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R.J. Burnside & Associates Limited

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AK:sr

Executive Summary

This report contains the Asset Management Plan for the Township of Amaranth (Township). The report has been organized as follows:

- Chapter 1: Introduction;
- Chapter 2: State of Local Infrastructure;
- Chapter 3: Expected Levels of Service;
- Chapter 4: Asset Management Strategy;
- Chapter 5: Financing Strategy; and
- Chapter 6: Recommendations.

The "state of local infrastructure" chapter provides an overview of the capital assets owned by the Township. This includes detailed information on asset inventory, including asset attributes, accounting valuations, replacement costs, useful life, age and asset condition where available. This information provides the foundation for other sections of the asset management plan.

Based on data provided by the Township and discussions with Township Staff, it is believed that the Township's assets have a weighted average condition (with the weighting based on asset replacement cost) of the following table. Please note that weighted average conditions do not fully reflect the many assets that need to have capital improvement investments, but provide an overall perspective of all the assets found in that asset grouping/network.

Asset Type	Asset Sub-Type	Condition (weighted average)	Risk (weighted average)
	Road Surface	Average	Moderate
	Road Base	Average	Moderate
	Bridges & Culverts	Average	High
Roads	Cross Road Culverts	Average	Moderate
	Street Lights	Average	Moderate
	Signs	Average	Moderate
	Barriers	Average	Moderate
	Sidewalks	Average	Moderate
	Municipal Office	Average	Moderate
Facilities	Public Works	Average	Moderate
Tacillies	Salt Dome	Average	Moderate

Vehicles		Good	Low	
	Storm Mains	Average	Moderate	
Ot and Wilder	Catch Basins	Average	Moderate	
Storm Water	Storm Manholes	Good	Moderate	
	Discharge Point	Good	Low	
	Storm Ponds	Good	Moderate	
Equipment & Machinery		Good	Low	
Land Improvements		Good	Low	
Software & Hardware		Average	Moderate	

"Expected levels of service" compares the current level of service provided by the Township, and the recommended levels of service that will help extend the life of the above mentioned asset types. Amaranth Township takes great care in the service levels they offer their constituents and public. This report has made a few additional Levels of Service (LOS) recommendations that can extend the life of Township's tangible capital assets and therefore reduce the total lifecycle costs of Township assets.

The "asset management strategy" provides a long term operating and capital forecast for asset related capital costs, indicating the requirements for maintaining, rehabilitating, replacing/disposing and expanding the Township's assets, while moving towards the specified expected levels of service identified above. The goal of the asset management strategy is to have the Township moving towards a more sustainable asset management position over the 20 year forecast period. We have also taken into consideration the potential risk of each asset by identifying the asset consequence of failure and probability of failure.

Asset risk was assessed based on the asset's age, condition, consequence of failure, and probability of failure. The following have been identified based on Township data as assets that need to be replaced or improved as soon as practicable:

Roads

- 20th Sideroad, from 7th Line to 8th Line Recommendation is to replace the surface of this asphalt road (approximate cost \$106,884; 2018).
- Amaranth/Grand Valley Townline, from 20th Sideroad to 1.8 km north of 20th Sideroad – Recommendation is to replace the surface of this asphalt road (approximate cost \$144,000; 2018).
- 20th Sideroad from County Road 11 to 4th Line Recommendation is to replace the surface of this asphalt road (approximate cost \$121,527; 2019).

- 20th Sideroad from 4th Line to 5th Line Recommendation is to replace the surface of this asphalt road (approximate cost \$104,098; 2019).
- 5th Sideroad from 2nd Line to County Road 11 Recommendation is to replace the surface of this asphalt road (approximate cost \$100,960; 2019).
- Amaranth/Grand Valley Townline from 1.6 km north of 15th Sideroad to 20th Sideroad

 Recommendation is to replace the surface of this asphalt road (approximate cost \$103,950; 2019).
- Devonleigh Drive from 30th Sideroad to 30th Sideroad Recommendation is to replace the surface of this asphalt road (approximate cost \$51,277; 2019).
- Station Street from 10th Line/Mill Street to St. John Street Recommendation is to replace the surface of this asphalt road (approximate cost \$19,539; 2019).
- Station Street from St. John Street to Peter Street Recommendation is to replace the surface of this asphalt road (approximate cost \$22,479; 2019).
- Road bases are not expected to be fully replaced but improved and in localized places dug out and repacked. However there are several road pavements showing that their road bases need some additional support and stabilization. One of these is the following:
 - 5th Sideroad from 2nd Line to County Road 11 (approximate cost \$100,000; 2019).

Bridges

- Bridge 17 This bridge was recommended to be replaced by the Township bridge inspection report. The Province of Ontario is providing an Ontario Community Infrastructure Fund (OCIF) Grant to pay 90% of the cost to replace this bridge (approximate cost to the Township \$100,000; 2017).
- Bridge 15 The Township had to close this bridge since it did not have sufficient funds to replace it last year. It is scheduled to be replaced (approximate cost \$600,000; 2017).

Facilities

- Municipal Office HVAC System (Air Conditioner) The old system is well past its life and not working properly therefore needs to be replaced (approximate cost \$28,000; 2017).
- Public Works Garage Windows Old windows are scheduled to be replaced in 2017.
 (approximate cost \$6,000; 2017).
- Municipal Office Well Water supply being critical for the proper functioning of this
 building the well and pump are still working and potentially in good condition but
 there is concern over its age, and this is recommended to be investigated. The
 Township may want to ensure that money is set aside for a replacement as soon as
 it is required (approximate cost \$15,000; 2018).

 Public Works Garage – Is an old facility and with growing need for more space for equipment. The expansion of this building is identified (approximate cost \$125,000; 2018).

Vehicles

- 2000 Ford Sterling Plow Truck Has exceeded its life expectancy and therefore is recommended to be replaced. These types of trucks are critical to ensuring that the Township roads are in good repair and safe to drive (approximate cost \$275,000; 2017)
- 2009 Ford F-150 Pickup Truck Has exceeded it life expectancy and therefore is recommended to be replaced. This is a vehicle that has been well used by Township Road staff (approximate cost \$32,000)
- 1994 Grader Champion 740S4 Is well past its expected life and is recommended to be replaced. These types of vehicles are critical to ensuring that Township roads are in good repair and safe to drive (approximate cost \$415,000; 2018).

Street Lights

• Township Street Lights – The Township has not yet converted their street lights to LED lighting. The conversion will save the Township 40%-50% in electrical costs annually which can be over \$5,000 per year which will pay off the capital investment expense in less than 10 years (approximate cost \$45,000; 2018).

Storm Ponds

 Storm Retention Pond James Street – Runoff from the neighbouring agricultural land has caused for some cleanout work required to ensure that this storm pond is functioning well (approximate cost \$4,500; 2017).

Water System

- Waldemar Water System Generator Requires some rehabilitation to ensure it is functioning at appropriate service levels (approximate cost \$7,500; 2017).
- Waldemar Water Scada System The data logger is expected to need upgrading (approximate cost \$2,000; 2018).
- Waldemar Water Pump House Process Piping It was revealed that the valves are
 old and are becoming more and more challenging to engage. This is best to be
 completed in phases. If the Township has a large development come on line in the
 near future the new water system for that development may provide water to the
 community while this process piping is replaced (approximate cost \$125,000; 2021).

The above clearly identifies a growing gap in infrastructure funding, which is found not only in the Township of Amaranth but throughout Ontario and across Canada. The Township has been making steps over the last few years to start to close this funding gap, and obtaining the OCIF funding grant to assist with the replacement of Bridge 17

will really help. However, more needs to be done to ensure that the Township can offer appropriate levels of service to the public. We have recommended that further more detailed inspections (eg. Road Needs Study, Storm Sewer Inspections) of some assets be undertaken to provide a more accurate asset condition, remaining life and potential risk of failure. We also recommend that the bi-annual bridge inspections provide additional information that can assist with better long term asset management analysis.

The "financing strategy" described in Chapter 5 of this report identifies a funding plan for the recommended asset management strategy, including a review of historical results and recommendations with respect to the required amounts and types of funding (revenue) annually over the forecast period. Also, any infrastructure funding gaps are identified and recommendations are made regarding potential approaches to reduce and mitigate these gaps over the 20 year forecast period.

Overall, this asset management plan is a tool to be used by the Township for capital and financial decision making. It can be tied to various existing reports (such as budget, official plan and strategic planning reports) to ensure the asset management plan can be updated to reflect any changes in the Township of Amaranth's priorities.

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1.0 Introduction

1.1 Overview

R.J. Burnside & Associates Limited (Burnside) was retained by the Township of Amaranth (Township) to prepare an asset management plan. This plan is intended to be a tool for the Township to use during various decision making processes, including the annual budget process and Provincial/Federal capital grant application processes. This plan will serve as a road map for sustainable infrastructure planning going forward.

Assets included in this asset management plan are the following:

- Roadside Barriers;
- Bridges & Culverts;
- Cross Road Culverts;
- Equipment & Machinery (Office, Public Works, Other);
- Facilities (Administration Office, Public Works Garage, and Salt Dome);
- Land Improvements (Playing Surfaces, Parking Lots, Parks, Playground Equipment, Shelters);
- Roads (Bases and Surfaces Asphalt, Gravel);
- Sidewalks;
- Signs:
- Software & Hardware;
- Storm Water (Catch basins, Mains, Manholes, Headwalls, Storm Ponds);
- Street Lights;
- Vehicles; and
- Water (Facilities, Mains, Fittings, Valves, Hydrants, Wells).

It is recommended that this plan be updated on an annual basis to ensure that it is kept up to date. As water system assets have their own sustainable financing plan as per Provincial Guidelines, they are grouped and discussed separately. All other assets listed above are tax supported and are discussed more thoroughly in this report.

1.2 Plan Objectives

The Township's goals and objectives with respect to their capital assets relate to the level of service being provided to Township constituents. Services should be provided at expected levels, as defined within this asset management plan. Township infrastructure and other capital assets are anticipated to be maintained at condition levels that provide for a safe and functional environment for its residents and visitors. Therefore, the asset management plan and its implementation will be evaluated based on the Township's ability to meet these goals and objectives.

1.3 Plan Development

The development of the Township's asset management plan was based on the steps summarized below:

- Develop a complete listing of capital assets to be included in the plan, including attributes such as useful life, age, accounting valuation and current replacement valuation. Update the replacement cost of assets to 2016 dollars, and where required, using applicable inflationary indices.
- 2. Assess current condition of the assets, based on a combination of the following:
 - Existing reports;
 - Burnside field and/or desktop assessments;
 - Staff assessments; and
 - Asset age analysis.
- Assess the risk of asset failure for each asset, based on determining the
 probability of each asset failing, as well as, the consequence of the asset failing.
 This risk analysis is one of the components used to identify priority projects for
 inclusion in the asset management plan, as well as, asset risk levels that require
 mitigation.
- 4. Determine current levels of service, based on standard practices and discussions with Township staff. Further analysis of the practices and identification of additional maintenance measures that can be applied to the assets to extend their lifecycle and potentially provide a lower asset total lifecycle cost.
- 5. Prepare an asset management strategy (i.e., operating and capital forecast) based on the asset inventory, identified priorities, forecast scenarios and level of service analysis discussed above.
- Determine a financial strategy to support the asset management strategy, thus
 determining how the operating and capital related expenditure forecast will be
 funded over the plan period.
- 7. Prepare a final report, summarizing the process, strategy and results of the asset management plan.

1.4 Maintaining the Asset Management Plan

The asset management plan should be updated as the capital needs and priorities of the Township changes. This can be accomplished in conjunction with the Township's budget process. The Township will have the tools available to perform updates to the plan when needed.

When updating the asset management plan, note that the state of local infrastructure, expected levels of service, asset management strategy and financing strategy are integrated and impact each other. Looking at these components in reverse order, one can see the financing strategy outlines how the asset management strategy will be funded. The asset management strategy illustrates the costs required to maintain expected levels of service at a sustainable level. The expected levels of service component summarizes and links each service area to specific assets contained in the state of local infrastructure section and thus determines how these assets will be used to provide expected service levels.

This report covers a forecast period of 20 years; however, it is suggested that more focus and attention be put on the first 5 years of the asset management plan, to ensure accurate capital planning in the short term.

1.5 Plan Integration

The municipal environment is continually changing and demanding when it comes to legislation and other responsibilities. Integrating the asset management plan with Township's budget process, as well as, Public Standards Accounting Board Handbook Section 3150 (tangible capital asset) requirements can make updates in all three areas more efficient.

With respect to integrating the Township's budget process with asset management planning, both require a projection of capital and operating costs over a future period. The budget outlines total operating and capital requirements for the Township, while the asset management plan focuses in on specific asset related requirements. With this link to the annual budget, the budget update process can also become an asset management plan update process.

Both asset management and PSAB 3150 require a complete and accurate asset inventory. The significant difference between the two lies in valuation approaches (PSAB 3150 requires historical cost valuation, while asset management requires future replacement cost valuation). Using a single asset inventory as the developed Township asset management spreadsheets contain both historic and current replacement valuation methods as an effective approach to maintaining the Township's asset data (digital spreadsheets of all Township assets are provided in Appendix A).

2.0 State of Local Infrastructure

2.1 Scope and Process

This section of the plan provides an opportunity to develop a greater understanding of the capital assets owned by the Township. The state of local infrastructure analysis includes:

- An asset inventory documenting asset types, sub-types including quantities, materials and other similar asset attributes (where available);
- Financial accounting valuation (where available);
- Replacement cost valuation;
- Asset age distribution analysis and asset age as a proportion of expected useful life;
- Asset condition information (mostly based on report and/or staff assessment as well as the age of the asset, except where field or desktop assessments were completed);
- Draft Data Verification and Asset Condition policies; and
- Documentation of assumptions made in creating the asset inventory.

Burnside developed a detailed asset inventory listing for the Township which was used as a starting point in fulfilling the requirements for this report. This inventory provides current financial accounting valuations (i.e., historical cost, accumulated amortization and net book value), as well as, attributes such as replacement cost, useful life, and age). With respect to replacement cost, the Township provided various recent valuations, which were inflated in order to estimate current 2016 replacement costs. Other valuations were made using a current 2016 replacement cost and deflating the value to the year or estimated year that the asset was constructed and/or acquired.

The following data and reports were used to develop the Township's asset inventory during this project:

- Township PSAB 3150 asset inventory;
- Township reports;
- Township 2016 Bridge Inspection Report;
- Recent purchases information from the Township; and
- Discussions with Township staff.

Some adjustments to asset useful lives has been made but further analysis may reveal that the Township will want to update some useful life values so that they better reflect the lifecycle and remaining life of the Township's assets. Burnside engineers and the Township staff have reviewed the useful lives of the asset types identified in this project and believe they now reflect the conditions, maintenance practices and management of Township assets.

2.2 Capital Asset Overview

Amaranth Township presently owns capital assets with a 2016 replacement value of approximately \$103.8 million. Tax supported assets compose approximately \$96.7 million or \$29.5 million excluding the road base assets for tax supported assets. Table 2-1, Figure 2-1 and Figure 2-2 outline the breakdown of these tax supported totals into the Township's asset categories. The Water assets owned by the Township have a 2016 replacement cost of approximately \$7.1 million, as listed in Table 2-2 and Figure 2-3.

The capital asset inventory was organized in a Microsoft Excel spreadsheet and delivered to the Township in digital form in Appendix A. Each of the asset types were assessed for their age, condition (where available) and for data accuracy and completeness. The Township reviewed the asset inventory over the course of this project.

Table 2-1 and Figure 2-1 show the Township's financial accounting valuation summary by asset type for tax supported and water supported assets. Since 2009, municipalities have been required under the Public Sector Accounting Board Handbook Section 3150 (PSAB 3150) to maintain asset listings complete with historical cost (i.e., the original cost to purchase or construct an asset), accumulated amortization and net book value. These values were to be reported on the municipality's audited financial statements each year. Burnside has done the additional work of developing the Opening/Historic Cost for assets that have been added to the Township's asset inventory. If the Township chooses to use the asset inventory developed in this project to report the PSAB 3150 values the data/information is found in Appendix A.

Including all Township assets, the total tangible capital asset historical cost is approximately \$28.5 million. This is approximately 27% of the total replacement cost of all the assets or 54% without road base replacement costs included. It is expected that historical cost totals are less than replacement cost totals, given inflationary adjustments that would occur between the original asset purchase/construction date and 2016. Total accumulated amortization for the Township's assets is \$12.3 million or 43% of the total asset historical cost and \$7.7 million or 39% without road base historic costs included. This represents the proportion of tangible capital assets that have been amortized (i.e. used up) to date from a financial valuation perspective.

Clearly Township owned road assets have the greatest percentage tax supported replacement cost if the road base values were included in the calculation (see Figure 2-2). Road bases are considered assets that will never be totally replaced, but will from time to time be improved and in small locations reconstructed on an as needed basis. Therefore by excluding road base asset values, Township bridges percentage replacement costs are over 40% of any other tax supported asset type. Other major tax supported asset types are Roads (made up of Road Surfaces, Barriers, Cross Road

Culverts, Signs, Street Lights, and Sidewalks) with 18%, Facilities with 17%, Vehicles with 13%, and Storm Water with 10%. More in depth discussion of these asset types follows below.

The Township water assets are critical to the Waldemar community. Figure 2-3 provides the percentage replacement cost breakdown of these asset groups.

Figure 2-1: Township Tax Supported Asset Distribution Replacement Costs (2016)

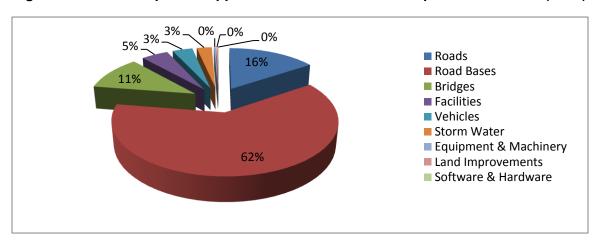
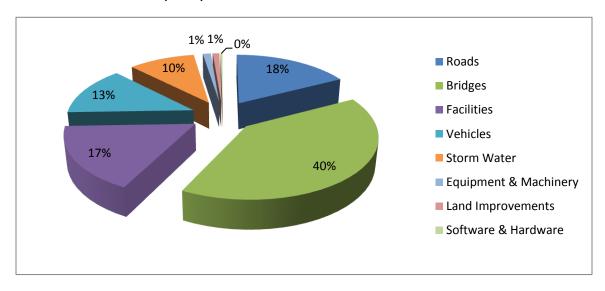


Figure 2-2: Township Tax Supported Asset Distribution Replacement Costs, Without Road Bases (2016)



Township of Amaranth 2016 Asset Management Plan May 29, 2017

Table 2-1: Township Tax Supported Asset Summary

Asset Type	Asset Sub-Type	Historic Cost	2015 Accumulated Amortization	2015 Net Book Value	2016 Replacement Cost	Cond (weighted		Useful Life (years)	Age (weighted average)	Remaining Life (weighted average)		Risk ed average)
						Value	Text				Value	Text
	Road Surface	\$2,524,522	\$799,394	\$687,541	\$4,130,178	6.9	Average	15, 3	10.3	6	2	Moderate
	Road Base	\$8,607,429	\$4,554,257	\$4,145,550	\$67,132,719	5.4	Average	60	123	7	2	Moderate
	Bridges & Culverts	\$4,654,146	\$1,391,214	\$3,262,933	\$11,831,022	5.8	Average	75, 30	59	29	3	High
Roads	Cross Road Culverts	\$190,476	\$117,409	\$73,067	\$606,002	5.4	Average	30	44	5	2	Moderate
	Street Lights	\$148,684	\$129,536	\$19,148	\$91,500	5.4	Average	25	26	4	2	Moderate
	Signs	\$180,176	\$153,574	\$26,562	\$214,927	5.4	Average	15	12	3	2	Moderate
	Barriers	\$18,589	\$12,490	\$6,099	\$23,951	5.1	Average	30	21	9	2	Moderate
	Sidewalks	\$16,077	\$9,968	\$6,109	\$70,000	6.0	Average	50	31	19	2	Moderate
Facilities	Municipal Office	\$942,943	\$315,388	\$627,556	\$1,802,500	6.9	Average	100, 50, 40, 30, 25, 15	25	58	2	Moderate
	Public Works	\$168,543	\$70,278	\$105,782	\$2,680,500	6.1	Average	80, 50, 40, 30, 15	49	29	3	Moderate
	Salt Dome	\$493,996	\$217,467	\$276,529	\$550,000	6.5	Average	25	12	14	2	Moderate
Vehicles		\$2,389,341	\$1,311,512	\$1,182,951	\$3,904,000	7.0	Good	20, 15, 8	8	8	1	Low
	Storm Mains	\$1,286,684	\$491,675	\$795,009	\$2,039,079	6.5	Average	100, 75, 50	27	45	2	Moderate
	Catch Basins	\$276,838	\$79,810	\$197,028	\$460,000	6.7	Average	75	28	47	2	Moderate
Storm Water	Storm Manholes	\$184,081	\$47,861	\$136,220	\$262,000	7.0	Good	100	26	74	2	Moderate
	Discharge Point	\$13,353	\$7,422	\$5,931	\$45,000	7.0	Good	50	28	22	1	Low
	Storm Ponds	\$36,615	\$9,980	\$26,635	\$80,000	7.0	Good	100	28	73	2	Moderate
Equipment & Machinery		\$340,438	\$189,974	\$150,464	\$354,494	7.2	Good	50, 40, 30, 25, 20, 15, 10, 5	6	4	1	Low
Land mprovements		\$310,825	\$188,246	\$122,579	\$301,500	7.1	Good	30, 20, 15, 10	16	9	1	Low
Software & Hardware		\$276,992	\$247,982	\$29,010	\$83,247	6.2	Average	10, 5, 4	8	3	2	Moderate
	Total	\$23,060,749	\$10,345,437	\$11,882,702	\$96,662,619	6.0	Average		66	20	2	Moderate
	T	otal without Ro	oad Base Replac	cement Costs	\$29,529,900	6.2	Average		41	28	2	Moderate

Calculated for Asphalt Roads Only

Figure 2-3: Township Water Supported Asset Distribution Replacement Costs (2016)

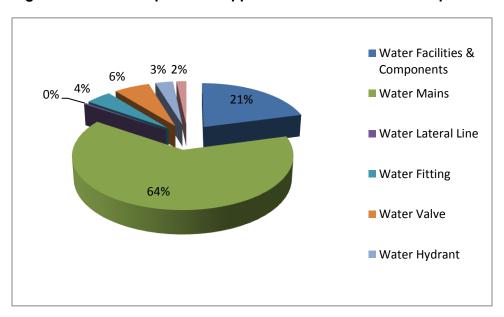


Table 2-2: Township Water Supported Asset Summary

Asset Type	Asset Sub-Type	Historic Cost	2015 Accumulated Amortization	2015 Net Book Value	2016 Replacement Cost		dition d average)	Useful Life (years)	Age (weighted average)	Remaining Life (weighted average)		Risk ed average)
						Value	Text				Value	Text
Water Facilities &	Waldemar Pump House	\$1,279,661	\$897,011	\$382,651	\$1,492,000	6.6	Average	75, 50, 25, 15	24	41	2	Moderate
Components	Acchione Pump House	\$8,995	\$6,146	\$2,849	Not Expected to be Replaced							Moderate
Water Mains		\$3,353,600	\$736,283	\$2,617,317	\$4,554,086	7.4	Good	100	23	77	2	Moderate
Water Lateral Line		\$21,211	\$5,517	\$15,694	\$30,189	7.0	Good	100	26	74	2	Moderate
Water Fitting		\$205,733	\$74,864	\$130,869	\$315,000	6.6	Average	75	27	48	2	Moderate
Water Valve		\$304,310	\$100,558	\$203,752	\$437,000	7.0	Good	75	25	50	2	Moderate
Water Hydrant		\$151,762	\$52,614	\$99,148	\$216,000	7.0	Good	75	26	49	2	Moderate
Water Wells		\$95,048	\$77,958	\$17,090	\$120,000	5.0	Average	25	22	4	2	Moderate
	Total	\$5,420,319	\$1,950,950	\$3,469,369	\$7,164,275	7.0	Average		24	65	2	Moderate

The Equipment & Machinery assets are mostly composed of Municipal Office equipment, and Public Works equipment. These assets are numerous and a standard requirement for general operations of these department areas of the municipality. These assets also are used and/or tested for safety on a regular basis by Township staff and therefore maintained or replaced on a regular schedule or when required.

Land Improvements assets are mostly made up of parking lots and playing surfaces, as sports fields and park equipment. Township staff regularly inspect these assets to ensure they are well maintained. It is recommended that the Township review the lifecycles of these assets to ensure that they are appropriate for the Amaranth Township environment.

The Software and Hardware asset group is also regularly used by Township staff. Assets as computers are replaced when required to ensure staff effectiveness. Therefore this asset group is well maintained and controlled via appropriate timely replacements.

The Township sidewalks are only located in the west part of the Waldemar community and are inspected annually for deficiencies. The identified issues are recorded and corrected as soon as practicable.

The Township has many street signs throughout the community which include both regulatory and non-regulatory signs. With over \$200,000 replacement value this asset type is critical to safe travel through the Township. Township signs are regularly reviewed by the Township staff and are replaced when necessary, and only require an annual budget of \$4,500 to ensure proper signage is maintained.

Township street lights have not been replaced with new LED lights which will effectively reduce the Township's electrical energy consumption and light bulb replacements. In 2016 the Township paid over \$13,500 in street light electrical consumption, plus additional costs for bulb replacements. We recommend that the Township replace all of their street lights with LED lights which is an approximate cost of \$45,000. Most communities are receiving an electrical consumption savings of 40%-50% or approximately \$5,400, which can pay for the capital investment over a short period of time.

2.3 Road Environment Assets

The Township's road assets make up a key service that reflects the economic and social development of the community. The road environment assets are made up of the following asset types:

- Road Surface Asphalt 22% of the total Township Road asset replacement costs;
- Road Surface Gravel 8% of the Total Township Road asset replacement costs;

- Bridges 70% of the total Township Road asset replacement costs;
- Cross Road Culverts 4% of the total Township Road asset replacement costs;
- Street Lights 1% of the total Township Road asset replacement costs;
- Signs 1% of the total Township Road asset replacement costs;
- Barriers less than 1% of the total Township Road asset replacement costs; and
- Sidewalks less than 1% of the total Township Road asset replacement costs.

Below we provide more detail on the two key asset groups in the Road Environment group of assets, Roads, and Bridges.

2.3.1 Roads

At the current replacement cost the road environment assets account for \$16.9 million dollars or 57% of the Township's tax supported assets excluding road bases. The composition of the road surfaces are outlined in Table 2-3.

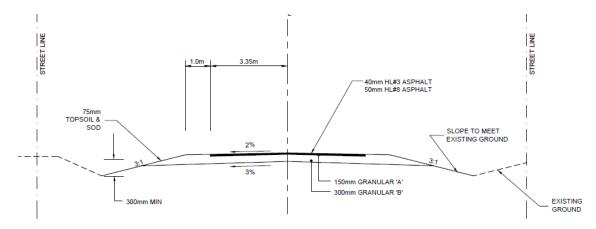
Table 2-3: Road Surface Composition

Road Surface	Length (km)	Condition (weighted average)	Condition (text)	Replacement Cost
Asphalt	46,129	6.9	Average	\$3,690,358
Gravel	182,965	6.3	Average	\$439,820
Total	229,094		Average	\$4,130,178

Burnside completed a desktop review of all Township roads to establish the road inventory. Many discussions with the Township Director of Public Works, helped to identify the road conditions, and identified needs for both asphalt and gravel surface roads.

It was identified that the Township is falling behind in trying to maintain good asphalt road surfaces, which can and eventually do affect the road bases. Figure 2-4 outlines cross section of a standard road. It is very important to maintain the road surfaces which are comparatively a minor replacement cost to the major cost to replace a road base. Due to other major projects as bridge replacements funding has not been available to re-enforce some road bases and replace their asphalt surfaces. For a few asphalt roads it is recommended that the asphalt surface be ground into the base along with some additional gravel. This will help to develop a more secure road base. Once the road base becomes soft it cannot economically support a hardtop road surface and it can be best to convert it to a gravel road until the base has been reinforced.

Figure 2-4: Typical Road Cross-Section



The gravel surface roads are on an approximate three year rotation, of surface gravel replacement/top-up. In some locations additional gravel is at times required to help reinforce the road base. This rotation is recommended to continue to ensure that these roads remain safe.

To gain a better understanding of the road conditions it is recommended that the Township complete a Road Needs study. This will provide a more detailed report of condition related deficiencies, and other deficiencies that may impact longevity or operations of Township roads, including road widths, drainage, surface type, alignment, and brushing maintenance where required.

2.3.2 Bridges & Culverts

The Township had their 21 bridges and culverts structures over the span of 3.0 m inspected in 2016 inspected. The inspection report was reviewed and information used in this asset management analysis. Visual inspections are required to be carried out every two years in accordance with the Ministry of Transportation – Ontario Structure Inspection Manual (OSIM). The inspections were to be completed under the direction of a Professional Engineer to assess their condition and identify any material defects, performance deficiencies, maintenance needs, additional studies and/or repairs/rehabilitation work required on a structure by structure basis.

The Township has a total of just under \$12 million replacement cost of bridge and culvert assets. Figure 2-5 provides the distribution of the types of bridges that the Township owns.

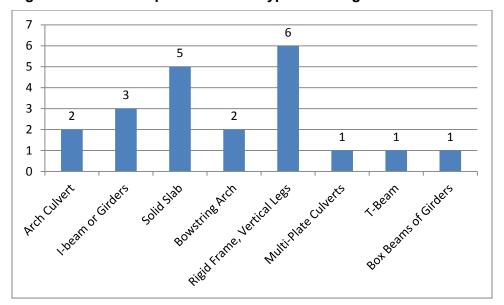


Figure 2-5: Township of Amaranth Types of Bridge Structures

The inspection report made recommendations based on the data. Depending on the condition of each structure, the remedial needs were provided in three classifications; routine maintenance, additional investigations and repairs and rehabilitations (Capital Works).

The routine maintenance work often requires a minimal scope of work, and in most cases can be carried out by Township staff. The total estimated value of the maintenance work to be completed by the Township is \$100,600. We recommend that this be completed over a ten year period to ensure that the appropriate levels of service are maintained.

The capital works needs include any repair, rehabilitation or replacement work which would typically be completed by a Township hired Contractor, to assist in extending the service life of a structure and increasing the Bridge Condition Index (BCI). In accordance with the OSIM, the capital works required are based on a priority of six to ten years, one to five years, within one year, and urgent and have been estimated and presented in Table 2-4.

Table 2-4: Bridge Capital Works Costs

Time Frame	Capital Cost
< 1 year	\$600,000
1 – 5 years	\$3,287,300
6 – 10 years	\$650,000
Total	\$4,537,300

It should be noted that the Capital Works costs include recommended replacement or rehabilitation costs for structures in need.

Taking into consideration the structures calculated BCl's, several structures have been identified for rehabilitation. Within the next six years, three structures have been identified for rehabilitation capital works.

Based on the biennial inspection of each structure, the Bridge Condition Index (BCI) is calculated for each structure. The Bridge Condition Index Distribution graph, shown in Figure 2-6 below, provides a summary of the current state of the Township's structures.

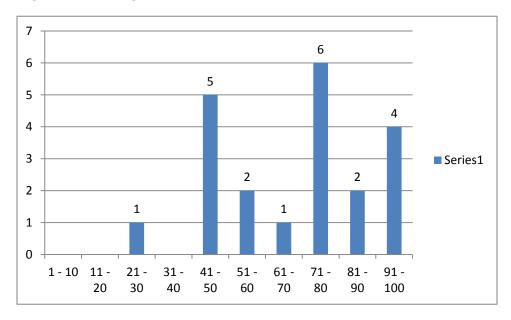


Figure 2-6: Bridge Condition Index Distribution (2016)

Currently, only approximately 57% of the Municipality's structures are within the "good" range (over 70 BCI), with 14% of the structures classified as "fair" (50 - 70 BCI) and 29% classified as "poor" (under 50 BCI), as illustrated in Figure 2-6. Of interest, the MTO has established a goal to have 85% of their structures in "good" condition (BCI ≥ 70) by the year 2021, and to maintain that condition moving forward by addressing rehabilitations and replacements as necessary. Burnside recognizes that the above goal was not established by the Township, but it is noted that, with the reconstruction of Bridge 15 and Bridge 17 the state of the inspected structures, will be improving. There will be 7 more bridges that will need some improvements or replacement to achieve the Province MTO's established goal.

Continued maintenance and completion of rehabilitative or replacement works as recommended in the Bridge report will help to continue a trend of overall improvement of the Municipality's bridge assets.

2.4 Facilities

Facilities account for \$5.0 million or 17% of the Township's assets replacement costs excluding the Road Bases. Figure 2-7 shows the distribution of this \$5.0 million across the asset type owned by the Township. A total of 3 facilities were identified as requiring an opinion of remaining life and replacement cost. Clearly the Township has invested in their facilities by incorporating a community type room part of the main administration office. Renovations are expected to proceed on the Public Works Garage in 2018 to expand this facility for more covered are for vehicles and other maintenance work.

Information that was provided by the Township as well as data included in the Township's asset management database was reviewed and organized for this project.

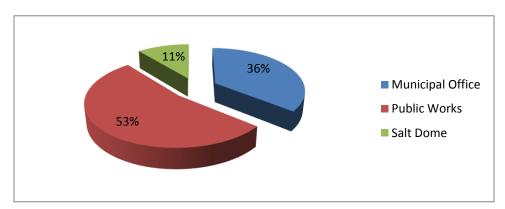


Figure 2-7: Facilities Replacement Cost Distribution

2.4.1 Facilities Condition Rating

A rating system consisting of five categories, Very Good, Good, Fair, Poor, and Very Poor, was utilized in order to provide a general description of the condition of each facility or component thereof as compared with the average life expectancy of that facility or component. Condition ratings for individual components or groups of components within a facility was provided by the Township, or assumed based on age and average life expectancy where no rating was provided. Table 2-5 provides a weighted average condition to replacement cost perspective of the Township facilities.

Facility	Condition (weighted average)	Replacement Cost
Municipal Office	6.9	\$1,802,500
Public Works	6.1	\$2,680,500
Salt Dome	6.5	\$550,000
	Total	\$5,033,000

Table 2-5: Facility Weighted Average Condition

2.5 Vehicles

The Township as most municipalities maintain their vehicles very well. This is potentially due to staff's regular hands-on use of these assets. When vehicle assets are used regularly the end users want to ensure that they are maintained to their manufacturer's specifications. Even though there are many vehicles that have exceeded their identified useful lives they are still safe to use. This does not mean that they will never have to be replaced.

It should not be surprising that all of the Township's vehicles have been identified for replacement over the 20 year period of this study. Some of these are currently only being used to cover more busy periods, and will eventually be replaced.

The Township owns \$3.9 million in replacement cost vehicles. This is 13% of the Township's assets (without road bases included), however they are a key functional asset used to provide clear drivable roads, and safe recreational fields and facilities.

Over the next ten years it is recommended that the Township invest approximately \$265,000 annually to overcome the Township's vehicle needs. This will not overcome the short term (next 5 years) needs, as this requires \$350,000 per year to cover the vehicle replacement needs.

2.6 Storm Water Assets

The Township has catch basins, storm manholes, discharge points, storm ponds, and storm sewer pipes estimated at potentially just under \$2.9 million in replacement cost assets. These assets are expected to have a long lifecycle of over 50 years, however it is important to inspect these assets as they approach their half-life period. Inspections with Closed Circuit Television cameras will provide a better understanding of the asset condition.

Table 2-1 provides more insight into the storm water assets. Please note that weighted averages do not fully reflect potential current needs, but provides a relative expression including all of the assets in this asset grouping.

The expected pipe lifecycle of 100 years indicates, as long as the asset is well maintained it provides for a long lasting cost effective storm water system. Ensuring that these pipes do not degrade beyond two thirds of their lifecycle will enable the Township to re-line the storm mains and ensure they provide appropriate levels of service for many more years.

2.7 Water Supported Assets

The Township water supported assets provide potable water to the Waldemar community. These assets total \$7.1 million in 2016 replacement cost value which is

20% of all the Township assets excluding the Road Bases. Table 2-3 provides a summary of all of the water supported assets. A more detailed review of these assets can be found in Appendix A.

Each water supported asset component identified in Table 2-3 is critical to the acquiring, treating and distributing potable water to the community with sufficient quantity and pressure. As this is a water supported asset grouping we shall only comment on the condition and capacity of the system.

In general the condition of the water assets are fair to good. There are only three main concerns:

- 1. The water wells and pumps are aging and need to be better assessed for their potential remaining service life.
- 2. The water treatment process piping in the pump house has shown some vales difficult to turn. This can provide for greater difficulty when requiring some potential service to the system. It is expected that this process piping will be replaced in the next few years, however it is best to be completed in a phased approach. If a new large development proceeds then a new water system will be required which will provide for an opportunity to complete the work while the new system provides water to the current residence in the Waldemar community.
- Water distribution capacity, will be reaching its limits once the current approved developments are completed adding some 70 new homes to the community. The Township water operator has identified that once all 70 homes are integrated to the distribution network there will be limited room for water losses. This has not being incorporated into this study, however future water rate studies and water financing plans will have to address this potential issue.

2.8 Asset Condition

Each asset was tracked based on estimated total useful life and remaining service life. Using this data, along with staff information, and age analysis of Township assets assisted in identifying potential areas of focus where inspected asset condition was not available. We do wish to state that asset condition is always best defined via engineering best practices. Engineering based condition assessments can provide more realistic estimates of an asset's remaining service life, which can then be used to establish rehabilitation and/or replacement schedules. Age related condition values can be problematic if the asset's useful life is not appropriately defined. For example, if a useful life of an asset is defined shorter than the assets true performance, this will result in a lower/poorer age assessed condition rating. This method of condition approximation was only used when inspected or staff commented conditions were not available.

A rating out of 10 was established for all assets and was based on a combination of past reported physical inspections, current inspections, staff assessment, and asset age analysis. This rating was then converted to a condition description of "Very Poor" to "Very Good" as shown in Table 2-6.

Table 2-6: Asset Condition Format for All Assets

Condition (Value 0-10)	Condition
9 – 10	Very Good
7 – 8	Good
5 – 6	Average
3 – 4	Poor
1 – 2	Very Poor

The condition of the assets is an important element of any lifecycle assessment process. The condition assessment process also identifies maintenance and operating practices that can be applied to ensure appropriate service, as well as extending the life of the asset to its maximum service life.

A draft policy has been proposed that will ensure all the Township's assets are reviewed using established engineering methods and practices. Appendix B contains the draft Data Verification and Condition Assessment Policy, which identifies how often the Township tax supported assets are recommended to be assessed.

A high level summary of the average conditions for the Township assets are shown in Table 2-1 and Table 2-2. The conditions listed in Table 2-1 and Table 2-2 are for weighted average conditions. The weighting was to use the asset replacement costs so that the greater the cost the greater the weighting of that asset's condition is used to determine the average. Using this method provides for more emphasis on the more expensive to replace assets. However please note that averages are a composition of many assets in a group. Averages can be misleading with respect to immediate needs as the new assets offset the old assets requiring urgent replacement.

2.9 Data Accuracy and Completeness

An important element of this asset management plan is ensuring that tools and procedures are in place to maintain accuracy and completeness of the asset data and calculations moving forward. As time passes, assets are used, maintained, improved, disposed of and replaced.

All of these lifecycle events can trigger changes to the asset database used within the asset management plan. Therefore, tools and procedures are essential to ensure the asset data remains accurate and complete. Please refer to Appendix B of this report for the draft "Data Verification and Condition Assessment Policy" for the Township. This policy illustrates how the asset data can be updated and verified going forward. This includes the timing of condition assessments for each asset type and what should be included within the condition assessment procedures.

3.0 Expected Levels of Service

The Township of Amaranth has been offering and maintaining for its municipality good service levels, during challenging economic times. The Province has become more demanding of all municipalities requiring residents to invest more and more into replacing older infrastructure. Reviewing past records has shown that small investments were being made into maintaining and replacing Township infrastructure. The last few years have seen improvements with greater investments in retaining proper service levels on Township assets. It is important to note that the long term objective of the Township needs to be infrastructure sustainability. In general the Township is performing maintenance activities when required, however with the potential of a development which may add 300 new homes will push the Township to hire more staff and acquire more much needed equipment to be able to maintain expected levels of service.

3.1 Scope and Process

A levels of service (LOS) analysis gives the Township an opportunity to document the levels of service that are currently being provided and compare it to the levels of service that will ensure the assets achieve their full lifecycle potential. This can be done through a review of current practices and procedures, an examination of trends or issues facing the Township and/or through an analysis of performance measures and targets that staff can use to measure performance.

Expected LOS can be impacted by a number of factors, including:

- Legislative requirements (eg. Minimum maintenance standards for roads, water quidelines, etc.);
- Strategic planning goals and objectives;
- Resident expectations:
- Visitor expectations;
- Council expectations; and
- Financial or resource constraints.

The previous task of determining the state of the Township's local infrastructure establishes the asset inventory and condition, as well as asset management policies and principles to guide the refinement and upkeep of asset infrastructure. The LOS analysis will utilize this information and factor in the impact of asset service level targets. It is important to document an expected LOS that is realistic to the community. It is common to strive for the highest LOS; however, these service levels usually come at a cost. It is also helpful to consider the risk associated with a certain LOS. Therefore, expected LOS should be determined in a way that balances both level of investment and associated risk to the Township.

Burnside received verbal confirmation of maintenance practices that the Township undertakes. The only additional practices that we recommend are to complete more rigorous condition assessments on Township owned assets, as this will help better determine the remaining life of the municipality's assets. This then will provide the Township staff with time to find/develop appropriate funding to improve or replace these assets.

Figure 3-1 illustrates the recommended strategy of investing more often in smaller amounts provide higher levels of service and better asset condition with over all lower total cost over the lifecycle of the asset.

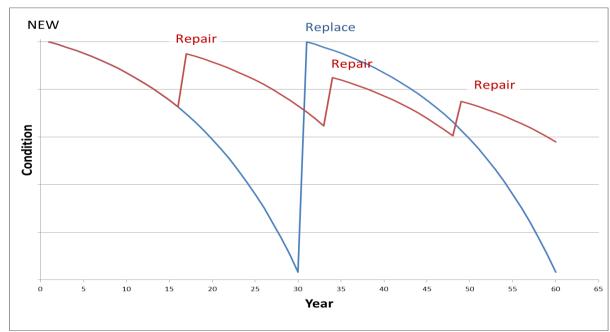


Figure 3-1: Small and Timely Renewal Investments Save Money

3.2 Current Levels of Service versus Expected Levels of Service

The Township's current LOS has resulted in the current state of infrastructure as discussed in the previous section of the report. This current LOS also relates to the risk assessment discussed in later report sections. Regarding the cost of this LOS, the municipality has established an operating and capital budget for the current year that includes the cost of providing this LOS to residents. Therefore in moving from the current LOS to an expected LOS, consideration has to be made for the associated cost (or impact on the Township's current budget) in moving to an enhanced or expected LOS.

Table 3-1 outlines broad LOS descriptions (both current and enhanced LOS). This analysis was noted through discussions with the Township and engineering best practices. Based on the information provided there are a few enhanced maintenance

related LOS identified. The levels of service cost impact analysis was factored into the financial strategy discussed in Chapter 5 of this report.

3.3 Level of Service Performance Measures

As mentioned above, using performance measures in the LOS review can also be helpful in measuring the Township's goals and objectives when it comes to capital assets. The municipality currently tracks specific performance measures as part of their Minimum Maintenance Standards for Roads. The Township also follows the Provincial water guidelines which are tracked and documented. It is recommended that the Township start tracking some other key performance measures as this will assist the municipality to better define and achieve their desired LOS and asset strategies. As the municipality's asset management plan evolves over time, performance measures can be introduced to further measure the LOS being provided in each service area. It is expected that the Province will be asking municipalities to incorporate more performance measures to ensure that appropriate service levels are being offered to the public.

Table 3-1: Township Expected Levels of Service

	Expected		L	evel of Service (LOS) Analysis	;	
	Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Estimated Cost of Expected LOS	Cost Description
	Safe Roads	Meet "Minimum Maintenance Standards" as defined by Ontario Regulation 239/02	Meet "Minimum Maintenance Standards" as defined by Ontario Regulation 239/02	Regulation Standard	\$1,800	Township may want to incorporate a system that will assist in proving compliance to the Provincial Regulation
	Fix Public Identified Issues Quickly	Track complaints and resolve then as quickly as possible	Track complaints by road segment.	Respond to Public Inquiry within 7 days		Township delivers the Level of Service well
	Maintain Road System Network Condition for Safe Use	Road Maintenance is completed regularly and when required	Maintain adequate road network condition index to ensure safe roads	Assess Road Conditions every 10 years with Internal assessment annually	\$25,000 + \$15,000 + \$8,500	Roads Needs Study every 10 years to include Network Condition analysis, and crack seal program and line painting
Roads & Related Assets	Asphalt Roads are Clean and Clear	Street sweeping and flushing are completed annually	Roads are swept and flushed to ensure they are clear of debris and safe.		\$8,500	Township delivers the Level of Service well
	Gravel Roads are Well Maintained and Dust Inhibited	Gravel roads are smoothed when required, and Calcium Chloride applied to control dust	Gravel roads are smoothed when required, and Calcium Chloride applied to control dust		\$110,000	Township delivers the Level of Service well
	Safe and Well Maintained Roadsides	Township provides brushing, ditching, grass mowing, and shoulder maintenance to ensure roadsides are safe and well maintained	Roadsides are clear of obstructions and well maintained for safe road travel		\$1,000	Township delivers the Level of Service well
	Signs can be Seen Clearly	Signs: Visual inspections done in the evening. Replaced when required/needed.	Signs: Visual inspections. Replace when needed.	Reflectivity Standard		Township delivers the Level of Service well
	Sidewalks are Clear and Safe	Visual Inspections done annually	Annual visual inspections correcting all identified deficiencies	Regulation Standard		Township delivers the Level of Service well
	Safe Well-lit Urban/Semi-Urban Street Areas	Maintenance activated by Public Notice for Street Lights	Maintenance activated by Public Notice for Street Lights	Correction of Issues within MMS	\$45,000	Recommendation for conversion to LED lights

	Expected		L	evel of Service (LOS) Analysis		
	Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Estimated Cost to Move to Expected LOS	Cost Description
	Safe Buildings	Meet legislative requirement (Building Code, Fire Code, Health & Safety, etc.)	Meet legislative requirement (Building Code, Fire Code, Health & Safety, etc.)	Provincial Guidelines		Township is completing this LOS
	Facility are Well Maintained	Condition assessments performed when needed	Facility Condition Assessments showing remaining life of major asset components and required improvements completed			On-Site inspections completed when required
	Health & Safety Equipment is in Good Working Order	Health & Safety component assessments to ensure emergency alarms, lighting, generators, etc. are functioning to specifications	Health & Safety component assessments to ensure emergency alarms, lighting, generators, etc. are functioning to specifications	Provincial Guidelines		Township is completing this LOS
Building Assets	All Facilities meet Accessibility Standards	All facilities meeting current accessibility standards	All Facilities meet accessibility standards.	Provincial Guidelines		Township is completing this LOS
	Maximizing Energy Savings	Energy Audit has been undertaken by the Township	Resource Efficiency: Energy Audit - for all facilities			Township does not have any outstanding issues to complete from the Energy audit for buildings
	Township Office Water is Safe to Drink	Reverse Osmosis and water coolers are used to ensure safe drinking water.	Water is tested regularly and safe to drink	Provincial Guidelines		Township is completing this LOS
	Mechanical Systems are Inspected and Maintained	HVAC systems are inspected and maintained annually	Assess efficiencies in Maintenance contracts (i.e. generators, HVAC).			Township is completing this LOS
	Clean and Well Maintained Facilities	Township has well maintained facilities	Proactive facility maintenance.			Township is completing this LOS

	Expected		L	Level of Service (LOS) Analysis				
	Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Estimated Cost to Move to Expected LOS	Cost Description		
	Safe & Accessible Parks	Meet legislative requirement (Inspections, Health & Safety, etc.)	Meet legislative requirement (Inspections, Health & Safety, etc.)	Provincial Guidelines		Township Staff complete inspections		
	Parks are Well Maintained	Condition assessments performed when needed. Monthly inspections of playground equipment	Monthly inspections of playgrounds and equipment	Provincial Guidelines		Township is completing this LOS		
Land	Playgrounds are in Good Working Order	Health & Safety component assessments to ensure functioning to specifications	Health & Safety component assessments to ensure functioning to specifications	Provincial Guidelines		Appropriate maintenance measures are being undertaken by the Township.		
Improvements	Parking Facilities are in Good Condition	Maintenance for Parking areas when required	Annual Inspections for maintenance for Parking areas			Township staff to complete and report		
	Sports Fields are Safe and Maintained	Appropriate Maintenance for safe use	Appropriate Maintenance for safe use			Township is completing this LOS		
	Township Trails are Safe and Maintained	Appropriate Maintenance for safe use	Appropriate Maintenance for safe use			Township is completing this LOS		
	Fencing Is Safe	Responding to Public complaints	Annual inspection and fixing of maintenance issues	Annual Review		Township to review when complaints submitted. Inspections are completed by staff		

	Expected			Level of Service (LOS) Analysis	Estimated Cost to Move to				
	Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Estimated Cost to Move to Expected LOS	Township is completing this LOS Township is completing this LOS Some concern over the age of			
Vehicles &	Safe & Well Maintained Vehicles	Proactive maintenance plan, as per Manufacturer's Guidelines	Proactive maintenance plan, as per Manufacturer's Guidelines			Township is completing this LOS			
Equipment Assets	Safe & Well Maintained Equipment	Proactive maintenance plan, as per Manufacturer's Guidelines	Proactive maintenance plan, as per Manufacturer's Guidelines			Township is completing this LOS			
	Optimal Replacement of Vehicles & Equipment	Replace Equipment/Vehicles as required (some areas based on legislated replacements, others minimum safety)	Replace Equipment/Vehicles as required (some areas based on legislated replacements, others minimum safety)			Some concern over the age of some of the vehicles/equipment the Township uses, however they are safe to use. The older vehicles are being used sparingly			

Storm Water Assets	Expected		ı	_evel of Service (LOS) Analysis	;	
	Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Estimated Cost to Move to Expected LOS	Cost Description
	Effective Storm Water Management	Investigate and respond based on public complaints/concerns	Proper flows and clear system with little to no inhibitors	No storm water back-up incidents		Township is completing this LOS
	Catch Basins are Clear and Well Maintained	Annual Catch Basin cleaning	Annual Catch Basin cleaning		\$2,000	Township is completing this LOS
	Storm Water Mains are Clear and Well Maintained	No identified issues	CCTV review and assessment completed every 15 yrs. Implement plan for repairs & maintenance that result in system efficiencies.		\$20,000	CCTV program every 15 years

	Expected			Level of Service (LOS) Analysis	;	
	Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Estimated Cost of Expected LOS	Cost Description
	Source Water is Well Protected	Maintaining appropriate Zoning and Planning to ensure Source Water Protection	Maintaining appropriate Zoning and Planning to ensure Source Water Protection			Township is completing this LOS
	Production Wells are Well Maintained	Appropriate maintenance is undertaken when required	Appropriate maintenance is undertaken when required			Township is completing this LOS
	Treatment Processes Meet Legislative Requirements	Meet all legislative requirements	Meet all Provincial legislative requirements	Provincial Guidelines		Township is completing this LOS
Water Assets	Well Maintained Generator	Tested monthly	Tested and well maintained generators		\$3,000	Township is completing this LOS. Annual service maintenance
	Appropriate Water Storage for Distribution Network	Water Storage is sufficient for currently approved developments. Beyond that the system may be reaching capacity levels	Water Storage meets the needs of the Water Distribution Network		\$5,000	Need to address capacity if the Township wishes to grow beyond the current approved development in the Waldemer area. Use robotic camera every 5 years to inspect storage tank.
	Efficient Water Distribution System	Water losses are tracked and at a minimum	Water Losses are tracked and minimized		\$2,000	Township is completing this LOS. Annual effort to gain access to exersize valves.
	Sufficient Water Pressure for Fire Protection	Water pressure meets and exceeds Fire Protection Standards with over 50 psi at high point and over 90 psi at pump house	Water Pressure meets Fire Protection Standards of 50 psi			Township is completing this LOS
	Hydrants are Flushed and Swabbed	System is flushed twice a year, and annual refurbishing program	Flushing Program meets Guideline Standards		\$5,000	Township is completing this LOS. Annual refurbishing program

4.0 Asset Management Strategy

4.1 Scope and Process

The asset management strategy provides the recommended course of actions required to maintain (or move towards) a sustainable asset position while delivering the levels of service discussed in the previous chapter. The course of actions, when combined together, form a long-term operating and capital forecast that includes:

- Non-infrastructure solutions: Reduce costs and/or extend expected useful life estimates:
- Maintenance activities: Regularly scheduled activities to maintain existing levels of service levels, or repairs needed due to unplanned events;
- Renewal/Rehabilitation: Significant repairs or maintenance planned to maintain the levels of service and increase the remaining life of assets; and
- Replacement/Disposal: Complete disposal and replacement of assets, when renewal or rehabilitation is no longer an option.

Priority identification becomes a critical process during the development of an asset management strategy. Priorities have been determined based on assessment of the overall risk of asset failure, which is determined by looking at both the probability of an asset failing, as well as, the consequences of failure. The consequences of the municipality not meeting desired levels of service must also be considered in determining risk. As discussed in Chapter 3, adding enhanced levels of service results in both operating and capital budget impacts over the 20 year forecast period. This has to be taken into consideration, with the overall objective of reaching sustainable levels while mitigating risk.

4.2 Risk Assessment

The risk of an asset failing is defined by the following calculation:

Risk of Asset Failure = Probability of Failure X Consequence of Failure

Probability of failure has been linked to the condition assessment for each asset, assuming that an asset in "very good" condition has a "rare" probability of failure. The following table outlines the probability factor tied to each condition rating:

Table 4-1: Probability of Failure Matrix

Condition (Value)	Condition	Probability of Failure
9 – 10	Very Good	Rare
7 – 8	Good	Unlikely
5 – 6	Average	Possible
3 – 4	Poor	Likely
1 – 2	Very Poor	Almost Certain

Consequence of failure has been determined by examining each asset type separately. Consequence refers to the impact on the municipality if a particular asset were to fail.

Types of impacts include the following:

- Cost Impacts: the cost of failure to the Township (i.e., capital replacement, rehabilitation, fines and penalties, damages, etc.);
- Social impacts: potential injury or death to residents;
- Environmental impacts: the impact of the asset failure on the environment; and
- Service delivery impacts: the impact of the asset failure on the Township's ability to provide services at desired levels.

Each type of impact was reviewed and consequence of failure for each asset type was determined by using the information contained in Table 4-2 as a guide to assess the level of impact. Levels of impact were documented as ranging from "significant" to "insignificant".

Table 4-2: Consequence of Failure Matrix

	Cost	Social	Environmental	Service Delivery
Significant	Significant Cost – Difficult to Recover	Death, Serious Injury	Long-term Impact – Permanent	Major Interruptions
Major	Substantial Cost – Multi-year Budget Impacts	Major Injury	Long-term Impact – Fixable	Significant Interruptions
Moderate	Considerable Cost – Requires Revisions to Budget	Moderate Injury	Medium-term Impact – Fixable	Moderate Interruptions
Minor	Small/Minor Cost – Within Budget Allocations	Minor Injury	Short-term/Minor Impact – Fixable	Minor Interruptions
Insignificant	Negligible or Insignificant Cost	No Injury	No Impact	No Interruptions

With both probability of failure and consequence of failure documented, total risk of asset failure was determined using the matrix contained in Table 4-3. Total risk has been classified under the following categories:

- Extreme Risk (E): Risk beyond acceptable levels;
- High Risk (H): Risk slightly beyond acceptable levels;
- Medium/Moderate Risk (M): Risk at acceptable levels, monitoring required to ensure risk does not become high; and
- Low Risk (L): Very little risk.

Table 4-3: Total Risk of Asset Failure Matrix

Probability of Failure		Cons	sequence of F	ailure	
or Failure	Significant	Major	Moderate	Minor	Insignificant
Almost Certain	Е	Е	Н	Н	M
Likely	Е	Н	Н	M	M
Possible	Е	Н	M	M	L
Unlikely	Н	M	M	L	L
Rare	Н	M	L	L	L

Risk levels can be reduced or mitigated through planned maintenance, rehabilitation and/or replacement of an asset. An objective of this asset management plan is to reduce risk levels where they are deemed to be too high, as well as, ensure assets are maintained in a way that keeps risk at acceptable levels.

4.3 Priority Identification

Through a review of the asset risk of failure assessment, the assets/categories listed below were identified as being priorities of the Township for over the next few years.

Roads

- 20th Sideroad, from 7th Line to 8th Line Recommendation is to replace the surface of this asphalt road (approximate cost \$106,884; 2018).
- Amaranth/Grand Valley Townline, from 20th Sideroad to 1.8 km north of 20th Sideroad – Recommendation is to replace the surface of this asphalt road (approximate cost \$144,000; 2018).
- 20th Sideroad from County Road 11 to 4th Line Recommendation is to replace the surface of this asphalt road (approximate cost \$121,527; 2019).
- 20th Sideroad from 4th Line to 5th Line Recommendation is to replace the surface of this asphalt road (approximate cost \$104,098; 2019).

- 5th Sideroad from 2nd Line to County Road 11 Recommendation is to replace the surface of this asphalt road (approximate cost \$100,960; 2019).
- Amaranth/Grand Valley Townline from 1.6 km north of 15th Sideroad to 20th Sideroad

 Recommendation is to replace the surface of this asphalt road (approximate cost \$103,950; 2019).
- Devonleigh Drive from 30th Sideroad to 30th Sideroad Recommendation is to replace the surface of this asphalt road (approximate cost \$51,277; 2019).
- Station Street from 10th Line/Mill Street to St. John Street Recommendation is to replace the surface of this asphalt road (approximate cost \$19,539; 2019).
- Station Street from St. John Street to Peter Street Recommendation is to replace the surface of this asphalt road (approximate cost \$22,479; 2019).
- Road bases are not expected to be fully replaced but improved and in localized places dug out and repacked. However there are several road pavements showing that their road bases need some additional support and stabilization. One of these is the following:
 - 5th Sideroad from 2nd Line to County Road 11 (approximate cost \$100,000; 2019).

Bridges

- Bridge 17 This bridge was recommended to be replaced by the Township bridge inspection report. The Province of Ontario is providing an Ontario Community Infrastructure Fund (OCIF) Grant to pay 90% of the cost to replace this bridge (approximate cost to the Township \$100,000; 2017).
- Bridge 15 The Township had to close this bridge since it did not have sufficient funds to replace it last year. It is scheduled to be replaced (approximate cost to the Township \$600,000; 2017).

Facilities

- Municipal Office HVAC System (Air Conditioner) The old system is well past its life and not working properly therefore needs to be replaced (approximate cost \$28,000; 2017).
- Public Works Garage Windows Old windows are scheduled to be replaced in 2017.
 (approximate cost \$6,000; 2017).
- Municipal Office Well Water supply being critical for the proper functioning of this
 building the well and pump are still working and potentially in good condition but
 there is concern over its age, and this is recommended to be investigated. The
 Township may want to ensure that money is set aside for a replacement as soon as
 it is required (approximate cost \$15,000; 2018).
- Public Works Garage Is an old facility and with growing need for more space for equipment. The expansion of this building is identified (approximate cost \$125,000; 2018).

Vehicles

- 2000 Ford Sterling Plow Truck Has exceeded its life expectancy and therefore is recommended to be replaced. These types of trucks are critical to ensuring that the Township roads are in good repair and safe to drive (approximate cost \$275,000; 2017).
- 2009 Ford F-150 Pickup Truck Has exceeded it life expectancy and therefore is recommended to be replaced. This is a vehicle that has been well used by Township Road staff (approximate cost \$32,000).
- 1994 Grader Champion 740S4 Is well past its expected life and is recommended to be replaced. These types of vehicles are critical to ensuring that Township roads are in good repair and safe to drive (approximate cost \$415,000; 2018).

Street Lights

• Township Street Lights – The Township has not yet converted their street lights to LED lighting. The conversion will save the Township 40% - 50% in electrical costs annually which can be over \$5,000 per year which will pay off the capital investment expense in less than 10 years (approximate cost \$45,000; 2018).

Storm Ponds

 Storm Retention Pond James Street – Runoff from the neighbouring agricultural land has caused for some cleanout work required to ensure that this storm pond is functioning well (approximate cost \$4,500; 2017).

Water System

- Waldemar Water System Generator Requires some rehabilitation to ensure it is functioning at appropriate service levels (approximate cost \$7,500; 2017).
- Waldemar Water Scada System The data logger is expected to need upgrading (approximate cost \$2,000; 2018).
- Waldemar Water Pump House Process Piping It was revealed that the valves are
 old and are becoming more and more challenging to engage. This is best to be
 completed in phases. If the Township has a large development come on line in the
 near future the new water system for that development may provide water to the
 community while this process piping is replaced (approximate cost \$125,000; 2021).

This list of capital asset replacements are only for the next few years, and do not limit the needs that the Township requires to become fully sustainable. The Finance Strategy will further outline the needs for investing in assets annually via reserves to ensure that funds are available for future asset replacements.

4.4 Long-term Forecast

For many years, lifecycle costing has been used in the field of engineering to evaluate the advantages of using alternative materials in construction or production design. The method has gained wider acceptance and use recently in the management of capital assets. By definition, lifecycle costs are all the costs which are incurred during the lifecycle of a capital asset, from the time it is purchased or constructed, to the time it is taken out of service for disposal.

In defining the long-term forecast for the Township's asset management strategy, costs incurred through an asset's lifecycle, the assets condition, expected LOS, and risk were considered and documented. Asset Replacement Analysis in forecasting the municipality's asset replacement needs are summarized in Figure 4-1, which we are calling Asset Strategy Scenario 1 based on expected levels of service. This asset strategy was further developed into a Scenario 2a, and 2b. This second developed scenario takes the developed asset strategy and applies a Capital Phased-In Approach as shown in Figure 4-2. Scenario 2 is fully discussed in Chapter 5.

The asset strategy incorporated all of the information discussed above in this report and based on the information provided by the Township, the completed field asset assessments, past reports, staff input, and understanding of the asset's reaction in their current environment as well as the expected asset maintenance levels, and the current asset condition, which is expected to produce a reduced asset potential risk of failure. The outcome of this scenario approach was to provide appropriate asset service levels, and assets are expected to meet or exceed their useful life which reduces expected infrastructure deficits. In total, \$25.6 million in assets (inflated to appropriate year) are shown as replacement needs in the 20 year forecast. This is the recommended asset strategy for the Township of Melancthon.

Assets like Bridges, Storm Water, and Facility Structures, are not expected to be replaced for usually over 50 years. It needs to be stated to ensure that these assets have reserve funding for their replacement schedule in the future. These assets will need to be replaced beyond the 20 year analysis period and not having reserve funds to do so will elevate the risk of failure to extreme levels in the future. Scenario 2b makes an attempt at providing the Township with an investment plan into Township reserve accounts.

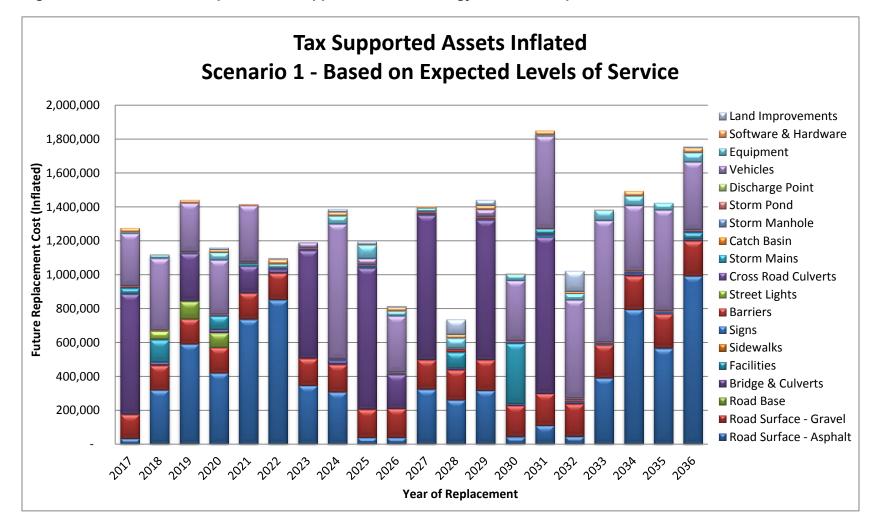
For the recommended scenario to be feasible, the expected level of service adjustments discussed in Chapter 3 are needed in conjunction with the current level of service amounts in order to effectively maintain and rehabilitate the assets as required.

The financing strategy discussed in the next chapter will incorporate the level of service adjustments into the recommended financing analysis. Please refer to Appendix C for the full 20 year details.

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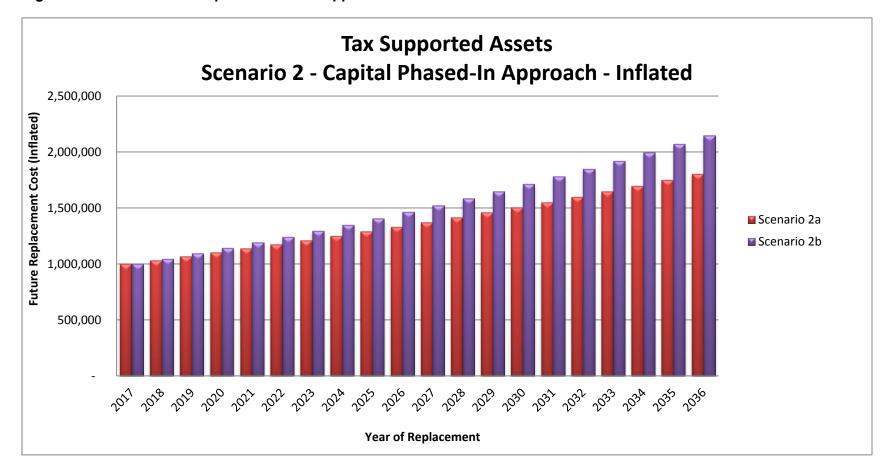
Figure 4-1: Scenario 1 - Proposed Tax Supported Asset Strategy Based on Expected Levels of Service



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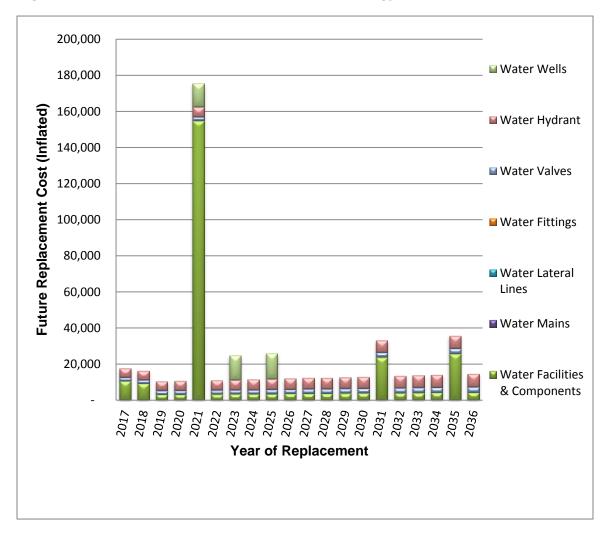
Figure 4-2: Scenario 2 – Capital Phased In Approach



4.4.1 Water Supported Assets

A representation of the water supported assets is being presented here for completeness. As noted above these assets undertake their own sustainability Financing Plan and Rate Studies. Based on the information provided Figure 4-3 shows the 20 year distribution of water supported asset strategy.

Figure 4-3: Proposed Water Supported Asset Strategy for 20 Year Period



5.0 Financing Strategy

5.1 Scope and Process

The financing strategy outlines the suggested financial approach to funding the tax supported asset management strategies outlined in Chapter 4, while utilizing the Township's existing budget structure and available funding sources. This section of the asset management plan includes:

- Annual expenditure forecasts broken down by lifecycle cost, including:
 - Maintenance/non-infrastructure solutions;
 - Renewal/rehabilitation activities;
 - Replacement/disposal activities; and
 - Expansion activities.
- Actual expenditures in the above-named categories for 2015 and 2016, and budgeted expenditures for 2017;
- An approximation of the annual funding devoted to Capital improvements/ Replacements;
- Identification of the funding shortfall and the infrastructure gap, including how the impact will be managed; and
- All key assumptions documented.

The financing strategy forecasts (including both expenditure and approximate capital revenue sources) were prepared consistent with the Township's budget structure so that it can be used in conjunction with the annual budget process. Various financing options, including user fees, reserve funds, debt, and grants were considered during the process.

For all financing strategy scenarios, a detailed 20 year plan was generated. The plan identifies specific lifecycle costs and associated funding sources required for the asset management strategies described in Chapter 4.

5.2 Historical Results

Table 5-1 outlines the historical results for 2015-2016 and the 2017 budget for Township services (all tax supported), which includes all capital (i.e., renewal/ rehabilitation, replacement/disposal, and expansion). Over the last three years the township seems to have been trying to increase its efforts to close the infrastructure gap. Based on the past three years a value of \$1,000,000 is the approximate capital funding the Township has provided to capital annually. This includes the use of development charges for growth (expansion) related costs, reserve funds, Gas Tax funds, and grants/subsidies. Please note that the Township was successful in obtaining the one-time Ontario Community Infrastructure Fund (OCIF) funding in 2016 for the construction of a new Bridge 15. This will help but not eliminate the infrastructure gap. This funding has been taken into account for only the Township portion of replacement cost is included in our analysis.

Table 5-1: Tax Supported Historical Results - Renewal/Rehabilitation, Replacement/Disposal & Expansion

Description	Actual	Actual	Budget
and the second	2015	2016	2017
Prior Capital Expenses			
Road Surface - Asphalt	\$127,494	\$230,100	
Road Surface - Gravel	\$267,188	\$320,833	\$311,750
Bridges & Culverts	\$32,769	\$226,965	\$600,000
Cross Road Culverts	\$2,328	\$2,276	\$3,000
Signs	\$3,794	\$2,168	\$3,000
Municipal Office	\$4,042	\$25,686	\$32,500
Public Works Garage	\$6,238	\$5,903	\$6,000
Vehicles	\$233,272	\$148,163	\$307,000
Equipment & Machinery	\$42,164	\$38,094	
Land Improvements		\$5,068	
Software & Hardware	\$19,447	\$4,660	
Total	\$738,737	\$1,009,916	\$1,263,250

5.3 Tax Supported Financing Strategies

As discussed in Chapter 4, two asset management strategies were developed to provide different avenues of moving towards sustainable asset management planning. Scenario 1 outlines the preferred approach, allocating rehabilitation and replacement needs based on asset condition, risk and expected levels of service. Scenario 2, the recommended approach, provides for the same capital needs as Scenario 1 over the 20 year forecast period, however, some potential capital deferrals are used to phase-in the impact over earlier years to assist with affordability. Included in this chapter are three distinct financing strategies, one for Scenario 1 and two for Scenario 2 (referred to as 2a and 2b), that attempt to move the Township towards asset management sustainability.

Table 5-2 below provides a costing overview of the three financing strategies and the cumulative, non-inflated and inflated capital expenses over five, ten, and twenty years of the forecast. Please note that the totals below include not only rehabilitation and replacement needs identified in Chapter 4, but also levels of service and expansion related capital costs. Scenarios 2a and 2b provide the same capital forecast; however provide different options on how to finance the recommended asset management scenario. As noted above, Scenario 2 ensures all capital identified in Scenario 1 is completed by the end of the 20 year forecast, but achieves so at a marginally higher price due to capital inflation.

Table 5-2: Tax Supported Financing Strategy Scenarios

Capital	Over 5 Years	Total Potential Added to Reserves	Over 10 Years	Total Potential Added to Reserves	Over 20 Years	Total Potential Added to Reserves
Non- Inflated						
Scenario 1	\$6,161,115	\$0	\$11,124,804	\$0	\$21,223,103	\$0
Scenario 2a	\$5,125,000	(\$1,036,115)	\$10,562,500	(\$562,304)	\$22,375,000	\$1,151,897
Scenario 2b	\$5,250,000	(\$911,115)	\$11,125,000	\$196	\$24,750,000	\$3,526,897
Inflated						
Scenario 1	\$6,413,833	\$0	\$12,102,481	\$0	\$25,621,940	\$0
Scenario 2a	\$5,336,717	(\$1,077,116)	\$11,587,989	(\$514,492)	\$27,382,139	\$1,760,199
Scenario 2b	\$5,469,394	(\$944,439)	\$12,226,257	\$123,776	\$30,466,908	\$4,844,968

Several methods of funding capital expenditures are utilized across all three financing strategy scenarios, in particular:

- Taxation funding is suggested for all maintenance costs, reserve fund transfers, as well as levels of service adjustment related costs related to operations.
- Formula based Ontario Community Infrastructure Fund (OCIF) proceeds and Gas
 Tax proceeds are expected to be stable and long-term funding sources for capital
 projects.
- External Debt financing may be an additional measure required to help smooth capital financing in years where there are increases in funding requirements. This is in particular a good method over the first five years of the 20 year plan.
- Internal debt issued from the Township's Reserve Fund (when accumulated) can be
 utilized to help fund annual capital needs Understanding that these Reserve Funds
 need continuous investment to provide for potential unexpected capital needs as well
 as long term capital needs.
- The portion of newly acquired or constructed assets that are growth (DC) related can be financed by development charges.

The Township will be dependent upon maintaining healthy capital reserve funds in order to provide the remainder of the required funding over the forecast period. This will require the Township to proactively increase amounts being transferred to these capital reserve funds during the annual budget process. Scenario 2b is the most applicable for the Township to implement and increase the capital reserve accounts, as beyond the 20 year plan there will be additional capital needs that will need funding.

5.3.1 Scenario 1: Expected Levels of Service

Figure 5-1 below presents the first 10 years of the capital forecast for Scenario 1. This forecast ensures that capital assets are rehabilitated or replaced as identified, based on levels of service, risk and condition (see Chapter 4).

Figure 5-1: Tax Supported Assets Scenario 1 – Based on Expected Levels of Service

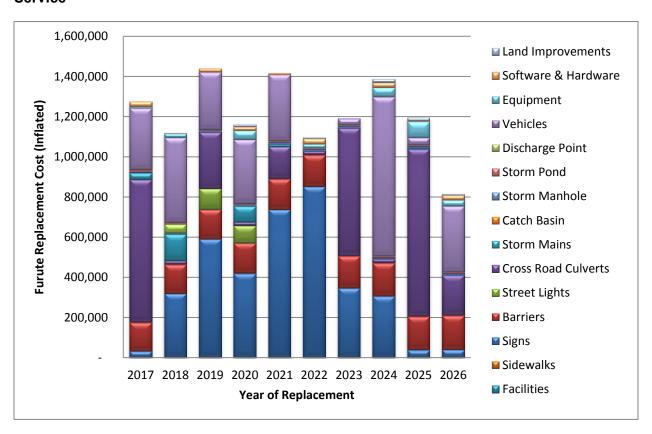


Table 5-3 shows the tax supported expenditure forecast for maintenance, renewal/ rehabilitation, replacement/disposal and expansion for the first 10 years of the forecast. While this summary only shows high-level cost classifications, further detail (including the full 20-year forecast) can be obtained from Appendix A and Appendix C.

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Table 5-3: Tax Supported Capital Expenditure Forecast Scenario 1: Expected LOS

Asset Type	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Scheduled										
Capital – Inflated	1,276,436	1,119,852	1,440,236	1,160,340	1,416,970	1,097,772	1,192,428	1,386,805	1,195,800	815,842
Road Surface - Asphalt	33,800	319,958	590,563	420,721	737,029	852,257	346,817	308,145	39,602	40,394
Road Surface - Gravel	142,000	144,840	147,737	150,692	153,705	156,779	159,915	163,113	166,376	169,703
Road Base	1,000	1,020	105,080	85,958	1,082	1,104	1,126	1,149	1,172	1,195
Bridge & Culverts	710,060	18,217	280,970	18,953	160,048	19,719	636,349	20,516	831,948	200,608
Facilities	34,000	132,090	-	79,591	12,989	-	-	-	5,858	-
Sidewalks	-	-	-	-	-	-	-	-	-	598
Signs	4,500	4,590	4,682	4,775	4,871	4,968	5,068	5,169	5,272	5,378
Barriers	-	-	-	-	-	895	-	-	-	-
Street Lights	-	45,900	520	531	541	552	563	574	586	598
Cross Road Culverts	4,500	4,590	4,682	4,775	4,871	4,968	5,068	5,169	5,272	5,378
Storm Mains	-	-	-	-	-	-	-	-	-	-
Catch Basin	2,000	2,040	2,081	2,122	2,165	2,208	2,252	2,297	2,343	2,390
Storm Manhole	-	-	-	-	-	-	-	-	-	-
Storm Pond	4,376	-	-	-	-	-	-	-	-	-
Discharge Point	-	-	-	-	-	-	-	-	-	-
Vehicles	307,000	423,300	286,110	318,362	332,307	-	33,785	792,593	37,493	328,650
Equipment	8,000	20,757	416	45,101	1,191	20,094	676	46,924	79,139	29,877
Software & Hardware	25,200	2,550	17,395	18,147	6,170	27,602	810	23,925	3,163	24,499
Land Improvements	-	-	-	10,612	-	6,624	-	17,230	17,575	6,573

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Table 5-4: Identified and Expected Levels of Service

Asset Type	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Total Scheduled										
Capital – Inflated	156,860	239,353	163,717	175,269	170,332	182,350	177,213	189,717	184,372	197,979
Road Surface - Asphalt	33,800	59,976	35,166	35,869	36,586	37,318	38,064	38,826	39,602	40,394
Road Surface - Gravel	110,000	112,200	114,444	116,733	119,068	121,449	123,878	126,355	128,883	131,460
Road Base	1,000	1,020	1,040	1,061	1,082	1,104	1,126	1,149	1,172	1,195
Bridge & Culverts	10,060	18,217	10,466	18,953	10,889	19,719	11,329	20,516	11,787	21,344
Facilities	-	-	-	-	-	-	-	-	-	-
Sidewalks	-	-	-	-	-		-		-	598
Signs	-	-	-	-	-		-		-	
Barriers	-	-	-	-	-	-	-	-	-	-
Street Lights	-	45,900	520	531	541	552	563	574	586	598
Cross Road Culverts	-	-	-	-	-	-	-	-	-	-
Storm Mains	-	-	-	-	-	-	-	-	-	-
Catch Basin	2,000	2,040	2,081	2,122	2,165	2,208	2,252	2,297	2,343	2,390
Storm Manhole	-	-	-	-	-	-	-	-	-	-
Storm Pond	-	-	-	-	-		-		-	
Discharge Point	-	-	-	-	-		-		-	
Vehicles	-	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-	-
Software & Hardware	-	-	-	-	-	-	-	-	-	-
Land Improvements	-	-	-	-	-	-	-	-	-	-

Items in Table 5-4 labelled as "Levels of Service" refer to the expanded levels of service analysis discussed in Chapter 3 and found for the 20 year period in Appendix C.

In order to fund the recommended asset requirements over the forecast period using the Township's own available funding sources (i.e., using taxation, Gas Tax funding, OCIF funding, reserves/reserve funds, and internal and external debentures), an increase in the Township's taxation levy of approximately 1% - 2% annually would be required. However, if other funding sources become available (i.e., grant funding) or if maintenance and rehabilitation practices allow for the deferral of capital works, then the impact on the Township's taxation levy would decrease under Scenario 1 implementation.

5.3.2 Scenarios 2a, and 2b

As previously mentioned, Scenarios 2a and 2b present different funding options to finance the recommended asset management strategy. The major difference between these two approaches is the extent to which capital assets are either financed through external debt, or deferred until funds are available as well as the resulting impact on projected taxation rates. Scenario 2b opts to use less external debentures, resulting in higher taxation rates, while Scenario 2a utilizes more potential external debentures, which has the effect of reducing the impact on taxation (by spreading capital costs out over many years). Note that even with a 1% annual tax increase towards capital funding it will take over 10 years in Scenario 2b to attain a positive investment into Capital Reserves.

Figure 5-2 below presents the first 10 years of the capital forecast for the recommended Scenario 2 asset management strategy. In this figure, the different Scenarios 2a and 2b are shown.

This forecast gradually increases the investment in capital assets over the forecast period. Both Scenario 2a and 2b start at \$1,000,000. The difference between Scenario 2a and 2b is that Scenario 2b has a higher annual increase in annual taxation. Scenario 2a increases by 0.5% and Scenario 2b increases by 1%, each year over the 20 year period.

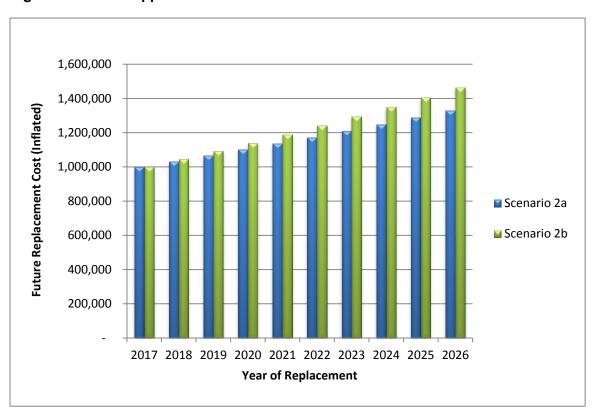


Figure 5-2: Tax Supported Assets Scenario 2a and 2b

The Scenario 2 asset management strategy defers the timing of some of the capital assets identified in the early years of Scenario 1 to assist in implementing sustainable funding. Please note that if additional funding is identified (i.e., grants) or cost efficiencies are found through annual budget processes going forward, this infrastructure gap could be reduced further.

Table 5-5: Tax Supported Capital Expenditure Forecast

	Asset Type	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
I	Scenario										
	2a	1,000,000	1,032,750	1,066,410	1,101,003	1,136,554	1,173,086	1,210,625	1,249,196	1,288,825	1,329,540
I	Scenario										
ı	2b	1,000,000	1,045,500	1,092,420	1,140,799	1,190,675	1,242,091	1,295,087	1,349,706	1,405,991	1,463,988

Table 5-5 shows the tax supported expenditure forecast for maintenance, renewal/rehabilitation, replacement/disposal and expansion for the first 10 years of the forecast. While this summary only shows required investment, further detail (including the full 20 year forecast) can be found in Appendix C.

In order to fund the recommended asset requirements over the forecast period using the Township's own available funding sources (i.e., using taxation, Gas Tax funding, OCIF funding, reserves/reserve funds, and internal and external debentures), an increase in the Township's taxation levy (which includes inflationary operating adjustments,

assumed to be 2.0%). Scenario 2a and 2b have a starting point at \$1,000,000 in year 2017, and increasing at a lower rate than Scenario 2b, starting at \$1,000,000 but increasing at a higher rate each year. The objective of these two scenarios was to ensure that the total funding required was in place to complete the capital works over the 20 year period.

This Scenario 2 may require some debt or initial draining of reserve funds or capital project deferral. It is important to point out that debt would be a short term need as the tax levies catch up with the capital requirements of the Township in the second half of the 20 year forecast period. However, if other funding sources become available (i.e., grant funding) or if maintenance and rehabilitation practices allow for the deferral of capital works, then the impact on the Township's taxation levy would decrease.

5.3.3 Financing Strategies Summary

The main differences between the scenarios:

- The deferral of capital within the 20 year forecast period in Scenarios 2a, and 2b;
- The use of external debentures to help finance capital in the early years of the forecast period; and
- The year-over-year increases to the taxation rate.

Assuming the Township maintains adequate capital reserve funds, both financing strategies will fully fund all capital identified for replacement via their expected levels of service. While the annual funding requirement may fluctuate, it is important for the Township to implement a consistent, yet increasing annual investment in capital so that the excess annual funds can accrue in capital reserve funds.

5.4 Infrastructure Funding Gap

A fundamental approach to calculating the cost of using a capital asset and for the provision of the revenue required when the time comes to retire and replace it is the "sinking fund method." This method first estimates the future value of the asset at the time of replacement, by inflating the current value of the asset at an assumed annual capital inflation rate. A calculation is then performed to determine annual contributions which, when invested in a reserve fund, will grow with interest to a balance equal to the future replacement cost. The contributions are calculated such that they also increase annually with inflation. Under this approach, an annual capital investment amount is calculated where funds are available for short-term needs while establishing a funding plan for long-term needs. Annual contributions in excess of capital costs in a given year would be transferred to a "capital replacement reserve fund" for future capital replacement needs. This approach provides for a stable funding base, eliminating variances in annual funding requirements, particularly in years when capital replacement needs exceed typical capital levy funding. Please refer to Figure 5-3 for an illustration of this method.

\$120,000 asset, 10 year life

On Dec. 31 of the 10th year, balance in the reserve fund is exactly equal to the asset's replacement cost.

Figure 5-3: Sinking Fund Method

This is the recommended approach to developing the optimal capital investment amounts that feeds into the Financing Strategy and infrastructure funding deficit calculation below.

5.4.1 Tax Supported Services

Capital investment is hereto referred as the sum of annual contributions to fund capital asset rehabilitation, replacement, and/or expansion. For the purposes of the Township, this can take the form of contributions to capital reserves/reserve funds, internal and external debt payments and consistent capital grant funding. This differs from the Township's annual budget and forecast, which includes asset maintenance from an operating perspective and one time funding for capital projects. The annual capital investment represents ongoing and constant investments in capital over the forecast period. From a tax supported asset base perspective, the estimated optimal annual capital investment is approximately \$1.1 million. Based on the Township's 2017 budget, current annual capital investment is approximately \$1,000,000. This would provide a high-level estimate of the Township's annual tax supported infrastructure funding gap at \$100,000.

5.4.2 Improving the Annual Funding Deficit

Under the recommended financing strategies (2a or 2b), the Township would be making proactive attempts to mitigate these funding gaps over the forecast period.

To further mitigate the potential infrastructure funding deficit, the Township could consider:

- Decreasing expected levels of service to make available capital funding;
- Issuing more debt for significant and/or unforeseen capital projects, in addition to the
 debt recommended within this report, while staying within the Township's debt
 capacity limits (this would have the impact of spreading out the capital repayment
 over a defined term);
- Actively seeking out and applying for grants;
- Consider approaching the community for funding assistance with respect to growth/ expansion related projects;
- Rate increases, where needed (i.e., taxation); and/or
- Implementing net operating reductions or efficiencies. For example:
 - Reduced operating costs to allow for more capital investment.

6.0 Recommendations

The following recommendations have been provided for the Township of Amaranth consideration:

- That this Asset Management Plan be received and approved by the Township of Amaranth Council; and
- That consideration of this Asset Management Plan be given as part of the annual budgeting process to ensure sufficient capital funds are available to fund capital requirements over the long-term.

The current level of funding for asset replacement and renewal at the Township will not sufficiently fund required capital needs or close the infrastructure funding gap. As such, it is recommended that the following be considered:

- That Council approve one of the recommended financing strategy scenarios, for Township staff to implement moving forward;
- That the "levels of service" strategies discussed in this report be approved;
- That the Township use "reserve funds" for asset management planning purposes;
- That this Asset Management Plan be updated and improved as needed over time to reflect the current priorities of the Township; and
- That the Township consider the capital priorities identified within this report when applying for future grants or deciding on how to utilize Gas Tax, OCIF funding and/or other funding that becomes available.

Substantial investment in asset capital needs will be required over the 20 year forecast period and beyond. Through the recommendations provided above, proactive steps will be made to increase capital investment, as well as, reduce the annual infrastructure funding gap for Township assets. Enhanced maintenance plans will assist in maintaining adequate asset conditions, mitigate asset risk as well as potentially defer capital needs within the forecast period. In addition, the Township of Amaranth is recommended to pursue all available capital grants wherever possible to further reduce the infrastructure funding gap.

Through the creation of this plan, the Township has been provided with Excel spreadsheets in which amendments and revisions can be made as needed by the Township. It is anticipated that this plan adopted by Township Council will be monitored and updated frequently as part of the budget process, with refinements and specific recommendations being provided with respect to the priority of each individual project.



Appendix A

Township Asset Inventory & Asset Management Plan Assumptions

APPENDIX A: ASSET MANAGEMENT PLAN ASSUMPTIONS

The following assumptions were made and applied during the creation of the Township of Amaranth's asset management plan.

1. STATE OF LOCAL INFRASTRUCTURE

- a) All replacement costs were estimates based on current 2016 pricing.
- b) Historic Costs of assets that were added to the Township's asset inventory and did not have a historic cost identified made use of deflation tables from estimated current 2016 costs back to the installation date of the asset. Indexes were using Non-Residential Building Construction Price Index (NRBCPI).
- c) Amortization of assets was using a straight line amortization, starting the year after the year of acquisition.
- d) Useful life of an asset were provided by the Township, discussed with Township Staff and/or obtained from similar assets in other communities/municipalities.
- e) Condition was from asset inspections (live and/or desktop), from staff's understanding of the asset's relative condition, and finally via estimation from the asset's age were used to provide estimated remaining life to the assets.

2. ASSET MANAGEMENT STRATEGY

- a) Capital inflation rate was assumed to be 2.0% annually.
- b) Operating budget inflation rate was assumed to be 2.0% annually.
- c) Regarding operating expenses included in the Township's current budget, it is assumed that they will increase at an operating inflation rate annually.

3. FINANCING STRATEGY

- a) Gas Tax and OCIF Formula Based Funding revenue have been identified as a funding source for the purposes of this analysis (i.e. for asset replacement purposes), and has been assumed to continue throughout the forecast period.
- b) Interest rate earned on a Capital Replacement Reserve Funds will be 1.0% annually.
- c) Township of Amaranth past Annual Capital Investment was identified as \$1,000,000.

Appendix A - AMP Assumptions.Docx 5/30/2017 1:17 PM

Amaranth Water - Facilities & Components Current Leveles of Service Expected Levels of Service

																					Replacement/In	provement Yea	r Based on Curi	ent Levels Service							Replacement/Imp	ovement Year Base	d on Expected L	vels Service
Fixed Asset Identification #	Location	Asset Name - Facility Components	Description		seful Remain ife Useful L		Historic Cost	2015 Accumulated Amortization	2015 Net Book Value	Replacement Cost 2016	Condition Based On Useful Life		Condition Used for Analysis	Asset Condition per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure		Numerical Value of Risk of Failure	Year Replacement due to minimmal maintenance practices	Levels of Service	Revised Levels Service eplacement Year	Year Replacement Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life	Proposed Rehabilitation Cost (2016 \$)	Year for Rehabilitation	Subsequent Rehab (cost 2016 \$)	Subsequent Year for Rehal	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override	Subsequent Replacement Year	Revised Remaining Useful Life
					41	24	\$ 1,288,656	\$ 903,156	\$ 385,500	\$ 1,492,000			6.6					2							\$ 43,500									
		Waldemar Water Plant																												·				
3020 Facilities - Buildings	Waldemar Water Plant	Waldemar Water Plant	Water Treatment Plant	1991	75 50	25	\$740,247	\$616,87	2 \$123,375	\$400,000	7		7	Good	Unlikely	Major	M	2	2059	10	2067	2067	7 2143	51					1	0	2067	2067	2142	51
4004 Facilities - Non-Spatial	Waldemar Water Plant	Waldemar Water Plant Roof	Roof Coverings	2011	25 20	5	\$3,562	\$71	2 \$2,849	\$5,000	8	8	8	Good	Unlikely	Major	M	2	2034	10	2037	2037	7 2063	21					1	0	2037	2037	2062	21
	Waldemar Water Plant	Reservior	Water Treatment Plant	1991	75 50	25	\$240,086	\$160,05	7 \$80,029		7		7	Good	Unlikely	Major	M	2	2059	10	2067	2067	7 2143	51					1	0	2067	2067	2142	51
	Waldemar Water Plant	Process Piping	Water Treatment Plant	1991	50 25	25	\$48,017	\$24,00	9 \$24,009	\$125,000	5		5	Average	Possible	Major	Н	3	2036	10	2041	2039	2089	23					1	0	2041	2021	2071	5
4006 Water - Pump	Waldemar Water Plant	Water System 2 Hydraulic Pumps	Water - Pump	2011	15 10	5	\$26,458	\$8,819	\$17,638	\$27,000	7		7	Good	Unlikely	Major	M	2	2025	10	2027	2027	7 2043	11	\$15,00	2031	15000	2035	15	0	2046	2046	2061	30
4007 Water - Pump	Waldemar Water Plant	Water system pumps	Water - Pump	2012	15 11	4	\$24,422	\$6,513	\$17,910	\$25,000	7		7	Good	Unlikely	Major	M	2	2026	10	2028	2028	3 2044	12	\$10,00	2021			20	0	2041	2041	2056	25
	Waldemar Water Plant		Water Treatment Plant	1991	25 0	25	\$28,810	\$	0 \$28,810	\$60,000	0	5	5	Average	Possible	Major	Н	3	2014	10	2017	2017	7 2043	1	\$5,00	2021			20	30	2041	2041	2066	25
	Waldemar Water Plant		Water Treatment Plant		75 50	25	\$120,043	\$80,02	9 \$40,014	\$250,000	7		7	Good	Unlikely	Major	M	2	2059	10	2067	2067	7 2143	51	\$6,00	2018			20	0	2038	2038	2113	22
	Waldemar Water Plant		Water Treatment Plant	1991	25 0	25	\$48,017	\$	0 \$48,017	\$100,000	0	5	5	Average	Possible	Major	Н	3	2014	10	2017	2017	7 2043	1	\$7,50	2017			20	30	2037	2037	2062	21
		Sub-Total					\$1,279,661	\$897,011	\$382,651	\$1,492,000			2 \	ery Poor											\$18,500									
		Former Acchione Pumphouse																											T					
4035 Facilities - Buildings		Former Acchione Pumphouse	Water Treatment Plant	1985	75 44	31	\$5,433	\$5,43	3 \$0	Not to be Replaced	6	5	5	Average	Possible	Minor	M	2	2053	10	2061	206	1 2137	45					1	0	2061	2061	2136	45
4003 Facilities - Non-Spatial	Pumphouse		Roof Coverings	2011	25 20		\$3,562	\$71	2 \$2,849	Not to be Replaced	8	8	8	Good	Unlikely	Minor	L	1	2034	10	2037	2037	7 2063	21					1	0	2037	2037	2062	21
		Sub-Total					\$8,995	\$6,146	\$2,849	\$0								#DIV/0!							\$0									

Amaranth Water Mains Inventory

Valer - Pressur/Led Man Mill Street 2422 STATION STREET Distribution Main 2822 200 154.4 PVC 9 9 2006 100 90 10 \$14.000 \$1	Name Name
Water - Pressurized Man Station Street 24.22 EAT/ON STREET INSTITUTION STREET Distribution Main 222 200 15.44 PVC 9 9 2006 100 90 10 \$45,060 \$14,000 \$14,000 \$14,000 \$16,000 \$14,000 \$16,000 \$14,000 \$16,000 \$14,000 \$16,000 \$14,000 \$16,000 \$1	0 2106 2106 2206 90 0 2106 2106 2206 90 0 2106 2106 2206 90 0 2106 2106 2206 90 0 2106 2106 2206 90
Water - Pressurized Main Station Street 2397 IOPH LINE ST. JOHN STREET Distribution Main 2824 200 20.4 GPV 9 9 2006 100 90 10 \$57.668 \$58.977 Rave Major M 2 2006 10 2106 2106 2206 90 10 2106 2106 2206 90 10 2106 2106 2206 90 10 2106 2106 2206 90 10 2106 2106 2206 90 10 2106 2106 2206 90 10 2106 2106 2206 90 10 2106 2106 2206 90 10 2106 2106 2206 90 10 2106 2106 2206 90 10 2106 2106 2206 90 10 2106 2106 2206 90 10 2206 10 2206 90 10 2206 10 2206 90 10 2206 10 2206 90 10 2206	0 2106 2106 2206 90 0 2106 2106 2206 90 0 2106 2106 2206 90 0 2106 2106 2206 90
Water - Presourtized Mini Station Street 2997 LOPH LNR St. J. DHY STREET DISTRICT Raw Water - Presourtized Mini Station Street 2997 LOPH LNR St. J. DHY STREET DISTRICT Raw Water - Presourtized Mini Station Street 2997 LOPH LNR St. J. DHY STREET DISTRICT Raw Water - Presourtized Mini Station Street 2997 LOPH LNR St. J. DHY STREET DISTRICT RAW Water - Presourtized Mini Station Street 2997 LOPH LNR St. J. DHY STREET DISTRICT RAW WATER - PRESOURCE MINI STATION STATION STREET DISTRICT RAW WATER - PRESOURCE MINI STATION STREET DISTRICT RAW WATER - PRESOURCE MINI STATION STATION STREET DISTRICT RAW WATER - PRESOURCE MINI STATION S	0 2106 2106 2206 90 0 2106 2106 2206 90
Water Pressurized Main Station Street 2397[1071 LINE ST. JOHN STREET Raw Watermain 2826 100 645,1PVC 9 9 2006 100 90 101 857;2506 \$57,250 \$515,254 \$593,515 Rare Major M 2 2006 10 2106 2106 2106 90 10	0 2106 2106 2206 90
	0 2106 2106 2206 90 0 2000 2000 2100 74
Water-Pressuitzed Main 15, 106 Steel 12 (155) STRING STREET ROSSEL HILL ROAD Distribution Main 2828 150 28,90°C 7 7 1990 100 74 25 31,80°C 200	0 2090 2090 2190 74 0 2090 2090 2190 74
VWater - Pressurated Main Disconstrued Main Disc	0 2090 2090 2190 74
Water-Pressurated Main St. John Street 2475/17-3074 STREET Distribution Main 2830 150 73-8PVC 7 7 1990 100 74 25 847-3585 ST2375 SS5.220 857-341 Unified Major M 2 2000 10 2000 2000 2100 74	0 2090 2090 2190 74
Water - Pressurized Main St. John Street 2417 RUSSEL HILL ROAD PETER STREET Distribution Main 2831 150 120.9PVC 7 7 1990 100 74 25 \$78.19 \$20.311 \$57.000 \$111.185 United Water - March 2 2000 10 2009 2009 2009 2100 74	0 2090 2090 2190 74
Water - Pressurized Main St. John Street 2417 (RUSSEL HILL ROAD PETER STREET Distribution Main 2832 150 264.5 (PVC 7 7 1.990 1.00 74 26 \$171,224 \$44.518 \$126,706 \$263,700 (Unlikely Major M 2 2.080 10 2.090 2.090 2.090 74	0 2090 2090 2190 74
Water - Pressurized Main Russel Hill Road 2418 PETER \$TREET PETER COURT PETER STREET Distribution Main 2833 150 32.4 PVC 7 1990 100 74 26 \$20.956 \$5.449 \$15.507 \$29.826 Unlikely Miajor Mm 2 2080 10 209	0 2090 2090 2190 74
Water - Pressurized Main Peter Court 3044 PETER STREET END OF PETER COURT Distribution Main 2834 150 21.3 PVC 7 7 1990 100 74 26 \$13,743 \$3,573 \$10,170 \$19,560 (Unlikely Misjor M 2 2080 10 2090 2090 2190 74	0 2090 2090 2190 74
Water - Pressurized Man Peter Court 3044 PETRS STREET ISNO OF PETER COURT Distribution Man 2835 50 1374 Copper 7 7 1990 100 74 28 586,834 \$158,622 Unikely Major M 2 2080 10 2090 2090 2190 74 7 7 7 7 7 7 7 7	0 2090 2090 2190 74 0 2090 2090 2190 74
Valer - Pressurzed Main Russel Hill Road 2418 PETER STREET PETER COUNT PETER STREET Distribution Main 2838 150 229.91 VC 7 7 1990 100 74 25 514.527 538.538 519.686 521.966 Unlikely Major M 2 2080 10 2090 2190 74 1990 2090 2190 74 1990 2090 2190 74 1990 2090 2190 74 1990 2090 2190 74 1990 2090 2190 74 1990 2090 21	0 2090 2090 2190 74 0 2090 2090 2190 74
	0 2090 2090 2190 74
Water - Pressurized Main Russel Hill Road 2418 PETER STREET PETER COUNT PETER STREET Distribution Main 2838 150 31.0 PVC 7 1990 100 74 28 20.038 \$5.29 \$5.48,285 \$3.85.56 Unifiely Major M 2 2080 10 2090 2090 2190 74 1990 2090 2190 74 1990 2090 2190 74 1990 2090 2190 74 1990 2090 2190 74 1990 2090 2190 74 1990 2090 2190 74 1990 2090 2190 74 1990 2090 2190 2190 74 1990 2090 2190 2	0 2090 2090 2190 74
Water - Processify and Main Deter Street 2/20 BUSSET HILL BOAD DETER STREET / PETER COLURY Distribution Main 2/20 SE 68 93 SE 688 SE 691 SO 20 Delikaly Mainr Mary 2 2080 10 2000 2000 74	0 2090 2090 2190 74
Water - Pressurized Main Peter Street 2420 RUSSEL HILL ROAD PETER STREET / PETER COURT Distribution Main 2841 150 192.6 PVC 7 7 7 1990 100 74 28 \$124.521 \$32.376 \$177.230 Unlikely Major M 2 2080 10 2090 2090 2190 74	0 2090 2090 2190 74
Water - Pressurized Main Peter Street 2420 (RUSSEL HILL ROAD PETER STREET / PETER COURT Distribution Main 2842 150 117.6 (PVC 7 7 1990 100 74 26 \$76,040 \$19,770 \$56,270 \$108,227 (Unilikely Major M 2 2080 10 2090 2090 2090 2190 74	0 2090 2090 2190 74
Water - Pressurized Main Peter Street 2420RUSSEL HILL ROAD PETER STREET / PETER COURT Distribution Main 2843 150 11.01PVC 71 1901 1001 74 1 1 1 1 1 1 1 1 1	0 2090 2090 2190 74
Water - Pressurized Main St. John Street 2445/5/TAT/ON/STREET PRISE IRINGAD Raw Watermain 2544 75 38.65,PVC 7 7 1990 100 74 25 8277.522 856.555 \$160.567 \$309.598 [Unikady Major M 2 2080 10 2090 2190 74 Nater - Pressurized Main St. John Street 2445/5/TAT/ON/STREET PRISE STREET Raw Watermain 2544 75 366.53/PVC 7 7 7 1990 100 74 25 8277.525 856.556 \$160.567 \$309.598 [Unikady Major M 2 2080 10 2090 2190 74 Nater - Pressurized Main St. John Street 2445/5/TAT/ON/STREET PRISE STREET Raw Watermain 2544 75 660.33/PVC 7 7 7 1990 100 74 25 8277.525 856.556 \$160.567 \$309.598 [Unikady Major M 2 2080 10 2090 2190 74 Nater - Pressurized Main St. John Street 2445/5/TAT/ON/STREET PRISE STREET Raw Watermain 2544 75 660.33/PVC 7 7 7 1990 100 74 25 8277.525 856.556 \$160.567 \$309.598 [Unikady Major M 2 2080 10 2090 2190 74 National Prise Street Prise Street Raw Watermain 2545 75 660.33/PVC 7 7 7 1990 100 74 25 8277.525 856.556 \$160.567 \$309.598 [Unikady Major M 2 2080 10 2090 2190 74 National Prise Street Prise Street Raw Watermain 2545 75 660.33/PVC 7 7 7 1990 100 74 25 8277.525 856.556 \$160.567 \$309.598 [Unikady Major M 2 2080 10 2090 2190 74 National Prise Street Prise Street Raw Watermain 2545 75 660.33/PVC 7 7 7 1990 100 74 25 8277.525 856.556 \$160.567 \$309.598 [Unikady Major M 2 2080 10 2090 2190 74 National Prise Street Prise Street Raw Watermain 2545 75 660.33/PVC 7 7 7 1990 100 74 25 8277.525 856.556 \$160.567 \$309.598 [Unikady Major M 2 2080 10 2090 2190 74 National Prise Street Prise Street Raw Watermain 2545 75 660.33/PVC 7 7 7 1990 100 74 25 8277.525 856.556 \$160.567 \$309.598 [Unikady Major M 2 2080 10 2090 2190 74 National Prise Street Raw Watermain 2545 75 660.33/PVC 7 7 7 1990 100 74 25 8277.525 856.556 \$160.567 \$309.598 [Unikady Major M 2 2080 10 2090 2190 74 National Prise Street Raw Watermain 2545 75 660.33/PVC 7 7 7 1990 100 74 25 8277.525 856.556 \$160.567 \$309.598 [Unikady Major M 2 2080 10 2090 2190 74 National Prise Street Raw Watermain 2545 75 660.33/PVC 7 7 7 1990 100 74 25 8277.525 856.556 \$160.567 \$309.598	0 2090 2090 2190 74 0 2090 2090 2190 74
	0 2090 2090 2190 74 0 2090 2090 2190 74
Water-Pressurized Main St. John Street 2416 5713704\ STREET RUSSEL HILR ROAD Distribution Main 2846 150 3.1 PVC 7 7 1990 100 74 28 1.991 S18 8.1473 \$2.833 Unlikely Major M 2 2.000 10 2.090	0 2090 2090 2190 74
Value - Presonated Minia Events / Network 2440 Printed Striket Lettor Distribution Main 2481 150 73, 219VC 7 7 1.986 100 70 30 \$33,310 \$25,119 32,000 \$20,000	0 2086 2086 2186 70
Water - Pressurized Main James Street 247 EVANS AVENUE END OF JAMES STREET Distribution Main 2849 150 102.21PVC 7 7 1986 100 70 30 \$53.518 \$16.055 \$37.463 \$94.040 Unlikely Major M 2 2076 10 2086 2086 2186 70	0 2086 2086 2186 70
Water - Pressurized Main James Street 2447 [VANIS AVENUE END OF JAMES STREET Distribution Main 2850 150 27.2 [PVC 7 7 1986 100 70] 30 \$14,255 \$4,276 \$9,978 \$25,048 [Unlikely Major M 2 2076 10 2086 2086 2186 70	0 2086 2086 2186 70
Water - Pressurized Main James Street 2447 EVANS AVENUE END OF JAMES STREET Distribution Main 2851 150 10.1 PVC 7 7 1986 100 70 30 \$5,301 \$1,590 \$3,711 \$9,315 [Unlikely Misjor M 2 2076 10 2086 2086 2186 70	0 2086 2086 2186 70
Water - Productived Main January 2017 1906 100 70 30 \$61,889 \$185,679 \$43,322 \$206 2.006	0 2086 2086 2186 70
Water - Presourtized Mina James Street 2447 EVANS AVENUE END OF JAMES STREET Distribution Main 2833 200 30.6 PVC 7 1986 100 70 30 \$15.344 \$328.719 Unitakely Major M 2 2076 10 2086 2086 2186 70 10 2086 2086 2186 70 10 2086 2086 2186 70 10 2086 2086 2186 70 10 2086 2086 2186 70 10 2086 2086 2186 70 10 2086 2086 2186 70 10 2086 2086 2186 2086 2186 70 10 2086 2086 2186 21	0 2086 2086 2186 70 0 2086 2086 2186 70
	0 2086 2086 2186 70 0 2086 2086 2186 70
Water - Pressurized Min James Street 2447 FVMAS AVENUE END OF JAMES STREET Distribution Main 2855 300 21,8 PVC 7 7 1986 100 70 30 85.165 83.498 83.163 83.046 Unlikely Major M 2 2076 10 2086 2086 2086 2186 70	0 2086 2086 2186 70
Vitage - Pressuited Main January 2006 2006	0 2086 2086 2186 70
Water - Pressurized Main Ilames Street 2447 EVANS AVENUE END OF JAMES STREET Distribution Main 2858 200 1.5 PVC 7 7 1986 100 70 30 \$778 \$223 \$546 \$1.367 Unlikely Major M 2 2076 10 2086 2086 2086 2086 70	0 2086 2086 2186 70
Water - Pressurized Main Henry Street 2412 EVANS STREET END Distribution Main 2859 150 34 GPVC 7 1 1986 100 70 30 \$18.115 \$5.435 \$12.681 \$31.832 Unilkely Major M 2 2076 10 2086 2086 2486 70	0 2086 2086 2186 70
Water - Pressurized Main Henry Street 2412 EVANS STREET END Distribution Main 2860 150 45.5 PVC 7 7 1986 100 70 30 \$24,020 \$7,206 \$16.814 \$42,207 Unilkely Major M 2 2076 10 2086 2086 2086 2086 70	0 2086 2086 2186 70
Water - Pressurized Main Evants Avenue 2.427 [JAMES STREET HENRY STREET Distribution Main 2861 150 8.1]PVC 7 7 1986 100 70 30 \$4,244 \$1,273 \$2,971 \$7,458 [Unlikely Major M 2 2076 10 2086 2086 2186 70	0 2086 2086 2186 70
Water - Presourized Min Main Street 2451 DAVIO STREET HENRY STREET Distribution Main 2862 150 105.7 PWC 7 7 1985 100 70 30 585.377 \$18.595 \$38.722 \$97.200 Unitadely Major M 2 2076 10 2088 2188 70 2088 2188 70 2088	0 2086 2086 2186 70 0 2086 2086 2188 70
Water - Pressurized Main Main Street 2451 DAVIO STREET HENRY STREET Distribution Main 2861 150 22 PVC 7 7 1986 100 70 30 51.333 53.40 57.95 51.997 Unikely Major M 2 20.75 10 20.866 20.86 21.96 70 10 20.866 20.86 21.96 70 10 20.866 21.96 70 10 20.866 21.96 70 10 20.866 21.96 70 10 20.866 21.96 70 10 20.866 21.96 70 10 20.866 21.96 70 10 20.866 21.966	U 2086 2086 70
Valuer - Pressurized Main Main Street 2.51 [DAVID STREET HENRY STREET Distribution Main 2.854 1.50 5.0 2.0 5.0 2	0 2000 2086 2186 70 0 2000 2000 2400 70
	0 2086 2086 2186 70
Water-Pressurized Main Henry Street 2413 MANN STREET EVANS STREET Distribution Main 2867 1501 2.5 PVC 71 77 1986 1001 701 301 \$1,3061 \$392 \$314 \$2,285 Unilikely Major M 2 2.076 10 20881 2086 2188 70	0 2086 2086 2186 70
Water - Pressurized Main James Street 2447 EVANS AVENUE END OF JAMES STREET Distribution Main 2868 200 1.6 PVC 7 7 1986 100 70 30 \$840 \$252 \$588 \$1,476 Unlikely Major M 2 2076 10 2086 2086 2186 70	0 2086 2086 2186 70
Water-Pressurized Main Peter Court 3044 PETER STREET END OF PETER COURT Distribution Main 3141 150 27.3 PVC 7 7 1990 100 74 26 \$17.645 \$4.588 \$13.057 \$5.113 Unlikely Major M 2 2080 10 2090 2090 2090 2190 74	0 2090 2090 2190 74

Amaranth Water Lateral Line Inventory

Current Leveles of Service Replacement/Improvement Year Based on Current Levels Service

Expected Levels of Service Replacement/Improvement Year Based on Expected Levels Service

																						8	Service							Levels S	ervice	
FIXED ASSET ID	Subtype	Asset Name	Asset Type	Install U Year	Jseful Life	Remaining Useful Life	Age	Historic Cost	2015 Accumulated Amortization	2015 Net Book Value	Replacement Cost	Condition Based On As Useful Life Co	Staff sessed endition for Ana	N Used (Asset College (As per F		Consequence o	Risk of Failur	Numerical Value of Risk of Failure		Levels of Service	Replacement	Year Replacement Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life	Proposed Rehabilitation Cost (2016 \$)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current + Condition better then expected for	Revised Levels Service Replacement Year	Year Replacement Applying Risk I Score - or Staff Override		Revised Remaining Useful Life
						74	26	\$ 21,211	\$ 5,517	\$ 15,694	\$ 30,189		7					2							\$ -							
2869 Wa	ter - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	74	26	\$1,146	\$298	\$848	\$1,631	7	7	Goo	Unlikely	Major	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2870 Wa	ter - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	74	26	\$1,192	\$310	\$882	\$1,697	7	7	Goo	Unlikely	Major	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2871 Wa	ter - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	74	26	\$1,187	\$309	\$878	\$1,690	7	7	Goo	Unlikely	Major	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2872 Wa	ter - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	74	26	\$1,214	\$316	\$898	\$1,728	7	7	Goo	Unlikely	Major	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2873 Wa	ter - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	74	26	\$1,078	\$280	\$798	\$1,534	7	7	Goo	Unlikely	Major	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2874 Wa	ter - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	74	26	\$1,276	\$332	\$944	\$1,816	7	7	Goo	Unlikely	Major	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2875 Wa	ter - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	74	26	\$1,115	\$290	\$825	\$1,586	7	7	Goo	Unlikely	Major	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2876 Wa	ter - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	74	26	\$1,585	\$412	\$1,173	\$2,256	7	7	Goo	Unlikely	Major	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2877 Wa	ter - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	74	26	\$1,072	\$279	\$793	\$1,526	7	7	Goo	Unlikely	Major	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2878 Wa	ter - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	74	26	\$1,046	\$272	\$774	\$1,488	7	7	Goo	Unlikely	Major	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2879 Wa	ter - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	74	26	\$1,133	\$295	\$838	\$1,613	7	7	Goo	Unlikely	Major	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2880 Wa	ter - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	74	26	\$1,294		\$958	\$1,841	7	7	Goo	Unlikely	Major	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2881 Wa	ter - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	74	26	\$1,153	\$300	\$853	\$1,641	7	7	Goo	Unlikely	Major	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2882 Wa	ter - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	74	26	\$1,281	\$333	\$948	\$1,823	7	7	Goo	Unlikely	Major	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2883 Wa	ter - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	74	26	\$1,188	\$309	\$879	\$1,691	7	7	Goo	Unlikely	Major	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2884 Wa	ter - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	74	26	\$1,050	\$273	\$777	\$1,494	7	7	Goo	Unlikely	Major	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2885 Wa	ter - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	74	26	\$991	\$258	\$733	\$1,411	7	7	Goo	Unlikely	Major	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2886 Wa	ter - Lateral Line	Hydrant Lateral Line	Hydrant Laterals	1990	100	74	26	\$1,211	\$315	\$896	\$1,723	7	7	Goo	Unlikely	Major	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74

Amaranth Water - Fitting Inventory Expected Levels of Service
Replacement/Improvement Year Based on Expected Levels Current Leveles of Service Replacement/Improvement Year Based on Current Levels Service

																						к	epiacement/in	nprovement Year Based on (Jurrent Levels Service						Service	•
FIXED ASSET Subtype ID	Asset Name - Equipment	Asset Type Mate	rial Diameter	Road GIS ID Road N	Name Ins	stall Usef ear Life	ful Remainin fe Useful Lif		Historic Cost	2015 Accumulated Amortization	2015 Net Book Value	Replacement Cost	Condition Based On Age	Condition (from Staff Assessment)	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition	Consequence of Failure	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimmal maintenance practices		Revised evels Service Replacement Year	Year Replacement Applying Risk Score		Proposed Rehabilitation Cost (2016 \$)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override Score	
							48	27	\$ 205,733	\$ 74,864 \$	130,869	\$ 315,000			6.6					2						\$ -						
2951 Water - Fitting	Tee Fitting	Tee PVC		2418 Russel Hill		1990	75 49		\$5,796	\$2,009	\$3,787	\$8,250			7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066		141 50
2952 Water - Fitting	Tee Fitting	Tee PVC		2419 Russel Hill		1990		26	\$5,796	\$2,009	\$3,787	\$8,250			7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066		141 50
2953 Water - Fitting	Tee Fitting	Tee PVC		2419 Russel Hill		1990		26	\$5,796	\$2,009	\$3,787	\$8,250			7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066		141 50
2954 Water - Fitting		Tee PVC	150	2419 Russel Hill		1990		26	\$5,796	\$2,009	\$3,787	\$8,250			7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066		141 50
2955 Water - Fitting	Tee Fitting	Tee PVC	150	2419 Russel Hill		1990		26	\$5,796	\$2,009	\$3,787	\$8,250			7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066		141 50
2956 Water - Fitting	Cap Fitting	Cap PVC		2416 St. John St		1990	75 49	_	\$5,726	\$1,985	\$3,741	\$8,150			7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066		141 50
2957 Water - Fitting	Tee Fitting	Tee PVC		2416 St. john St		1990	_	26	1 - 7	\$2,009	\$3,787	\$8,250			7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066		141 50
2958 Water - Fitting 2959 Water - Fitting	Tee Fitting	Tee PVC		2416 St. John St 2417 St. John St		1990		26 26	+0).00	\$2,009 \$2,009	\$3,787 \$3,787	\$8,250 \$8,250			7	Good	Unlikely	Moderate Moderate	M	2	2058	10	2066 2066	2066 2142 2066 2142	50 50					2066 2066		141 50 141 50
2959 Water - Fitting 2960 Water - Fitting	Tee Fitting	Tee PVC		2417 St. John St		1000	75 49 75 49		\$5,790	\$2,009	\$3,787 \$3,787	\$8,250			7	Good	Unlikely	Moderate	IVI	2	2058	10	2066	2066 2142	50					2066		141 50
2960 Water - Fitting	Tee Fitting			2417 St. John St		1000		26	\$5,796	\$2,009	\$3,787	\$8,250			7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066		141 50
2961 Water - Fitting	Tee Fitting	Tee PVC		2417 St. John St		1990	_	26	4-0)	\$2,009	\$3,787	\$8,250			7	Good	Unlikely	Moderate Moderate	M	2	2058	10	2066	2066 2142	50					2066		141 50
2963 Water - Fitting		Tee PVC		2417 St. John St		1000	_	26	1 - 7	\$2,009	\$3,787	\$8,250			7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066		141 50
2964 Water - Fitting	Tee Fitting	Tee PVC		2835 Peter Cou		1990	75 49	_	\$5,750	\$2,000	\$3,767	\$8,250			7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066	2000	141 50
2965 Water - Fitting		Tee PVC		2418 Russel Hill		1990	75 49		\$5,796	\$2,000	\$3,787	\$8,250			7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066		141 50
2966 Water - Fitting	Tee Fitting	Tee PVC		2420 Peter Stree		1990		26	\$5,796	\$2,000	\$3,787	\$8,250			7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066		141 50
2967 Water - Fitting	Tee Fitting	Tee PVC		2427 Evans Ave		1986		30	1.7	\$1.878	\$2,817	\$8,250			6	Average	Possible	Moderate	M	2	2054	10	2062	2062 2138	46					2062		137 46
2968 Water - Fitting	Cap Fitting	Cap PVC		2412 Henry Stre		1986		30	Ţ .jeco	4.10.0	\$2,783	\$8,150			6	Average	Possible	Moderate	M	2	2054	10	2062	2062 2138	46					2062		137 46
2969 Water - Fitting	Cap Fitting	Cap PVC	150	2447 James Stre	eet	1986	75 45	30	\$4,638	\$1,855	\$2,783	\$8,150	6		6	Average	Possible	Moderate	M	2	2054	10	2062	2062 2138	46					2062	2062 2	137 46
2970 Water - Fitting	Cap Fitting	Cap PVC	150	2426 Evans Ave	enue	1986	75 45	30	\$4,638	\$1,855	\$2,783	\$8,150	6		6	Average	Possible	Moderate	M	2	2054	10	2062	2062 2138	46					2062	2062 2	137 46
2971 Water - Fitting	Tee Fitting	Cap PVC	150	2426 Evans Ave	enue	1986	75 45	30	\$4,695	\$1,878	\$2,817	\$8,250	6		6	Average	Possible	Moderate	M	2	2054	10	2062	2062 2138	46					2062	2062 2	137 46
2972 Water - Fitting	Tee Fitting	Tee PVC	150	2447 James Stre	eet	1986	75 45	30	\$4,695	\$1,878	\$2,817	\$8,250	6		6	Average	Possible	Moderate	M	2	2054	10	2062	2062 2138	46					2062	2062 2	137 46
2973 Water - Fitting	Cross Fitting	Cross PVC	200	2447 James Stre	eet	1986	75 45	30	\$4,894	\$1,958	\$2,937	\$8,600	6		6	Average	Possible	Moderate	M	2	2054	10	2062	2062 2138	46					2062	2062 2	137 46
2974 Water - Fitting	Reducer Fitting	Reducer PVC	200	2447 James Stre	eet	1986	75 45	30	\$4,894	\$1,958	\$2,937	\$8,600	6		6	Average	Possible	Moderate	M	2	2054	10	2062	2062 2138	46					2062	2062 2	137 46
2975 Water - Fitting	Reducer Fitting	Reducer PVC	200	2447 James Stre	eet	1986	75 45	30	\$4,894	\$1,958	\$2,937	\$8,600	6		6	Average	Possible	Moderate	M	2	2054	10	2062	2062 2138	46					2062	2062 2	137 46
2976 Water - Fitting	Reducer Fitting	Reducer PVC	300	2447 James Stre	eet	1986	75 45	30	\$4,894	\$1,958	\$2,937	\$8,600	6		6	Average	Possible	Moderate	M	2	2054	10	2062	2062 2138	46					2062	2062 2	137 46
2977 Water - Fitting	Cross Fitting	Cross PVC	200	2417 St. John St	treet	1990	75 49	26	\$6,042	\$2,095	\$3,948	\$8,600	7		7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066	2066 2	141 50
2978 Water - Fitting	Tee Fitting	Tee PVC	150	2416 St. John St	treet	1990	75 49	26	\$5,796	\$2,009	\$3,787	\$8,250	7		7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066	2066 2	141 50
2979 Water - Fitting	Tee Fitting	Tee PVC	150	2420 Peter Stree	eet	1990	75 49	26	\$5,796	\$2,009	\$3,787	\$8,250	7		7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066	2066 2	141 50
2980 Water - Fitting	Tee Fitting	Tee PVC		2418 Russel Hill		1990	75 49	26	\$5,796	\$2,009	\$3,787	\$8,250			7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066	2066 2	141 50
2981 Water - Fitting	Tee Fitting	Tee PVC	150	2418 Russel Hill	l Road	1990	75 49	26	\$5,796	\$2,009	\$3,787	\$8,250	7		7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066	2066 2	141 50
2982 Water - Fitting	Tee Fitting	Tee PVC		2418 Russel Hill		1990	75 49	26	\$5,796	\$2,009	\$3,787	\$8,250			7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066	2066 2	141 50
2983 Water - Fitting	Tee Fitting	Tee PVC		2835 Peter Cour		1990		26	\$5,796	\$2,009	\$3,787	\$8,250			7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066		141 50
2984 Water - Fitting	Tee Fitting	Tee PVC		2413 Henry Stre		1990		26	\$5,796	\$2,009	\$3,787	\$8,250			7	Good	Unlikely	Moderate	M	2	2058	10	2066	2066 2142	50					2066		141 50
2985 Water - Fitting	Cap Fitting	Cap PVC		2447 James Stre		1986	75 45		\$4,638	\$1,855	\$2,783	\$8,150			6	Average	Possible	Moderate	M	2	2054	10	2062	2062 2138	46					2062		137 46
2986 Water - Fitting		Reducer PVC		2447 James Stre		1986		30		4.1000	\$2,937	\$8,600			6	Average	Possible	Moderate	M	2	2054	10	2062	2062 2138	46					2062		137 46
2987 Water - Fitting		Cap PVC		2864 Main Stree		1986	_	30	. ,	\$1,855	\$2,783	\$8,150			6	Average	Possible	Moderate	M	2	2054	10	2062	2062 2138	46					2062		137 46
2988 Water - Fitting	Tee Fitting	Tee PVC	150	2864 Main Stree	et	1986	75 45	30	\$4,695	\$1,878	\$2,817	\$8,250	6		6	Average	Possible	Moderate	M	2	2054	10	2062	2062 2138	46					2062	2062 2	137 46

Water - Valve Inventory	Current Leveles of Service	Expected Levels of Service
	Popleomostilmsrouement Voca Pased on Current Levels Source	Replacement/Improvement Year Based on Exper

Companies Comp	Staff Override Useful Life
2887 Water - System Valve Water System Valve Wa	2000 2141 50
2888 Water - System Valve Water	'el 20eel 2141 EO I
2889 Water - System Valve Water System Valve	0 2000 2141 30
2850 Water - System Valve 2417 St. John Street 2415 St. John Str	66 2066 2141 50
2891 Water - System Valve Water System Valve Wa	
2892 Water - System Valve Water System Valve	
289] Water - System Valve Water Valve	
2894 Water - System Valve 2417 St. John Street RUSSEL HILL ROAD PETER STREET Shut Off 150 1990 75 49 26 \$6,675 \$2,314 \$4,361 \$9,500 7 7 Good Unlikely Moderate M 2 2058 10 2066 2066 2142 50 9 20 2058 10 2066 2066 2142 50 9 20 2058 10 2066 2066 2142 50 9 2068 214	66 2066 2141 50
2895 Water - System Valve Water System Valve Water System Valve Water System Valve Water System Valve 2417 St. John Street RUSSEL HILL ROAD PETER STREET Shut Off 150 1990 7. 49 26 \$6,675 \$2,314 \$4,381 \$9,500 7 7 Good Unlikely Moderate M 2 2058 10 2066 2066 2142 50 9 20	
2896 Water - System Valve Water System Valve 2417 St. John Street RUSSEL HILL ROAD PETER STREET Shut Off 150 1990 78 49 26 \$6,675 \$2,314 \$4,361 \$9,500 7 7 Good Unlikely Moderate M 2 2058 10 2066 2066 2142 50	
2897 Water - System Valve Water System Valve Water System Valve Water System Valve V	
2898 (Water - System Valve Water System Valve W	
	82 2082 2157 66 82 2082 2157 66
200 minuty system of the 242 model of th	00 2000 2141 00
	56 2066 2141 50 56 2066 2141 50
2905 [Water - System] Value Water System Water	
	56 2066 2141 50 66 2066 2141 50
2900 [Water - System] Value Water System Water	
2900 Water - System Valve Water System Valve Wa	
	66 2066 2141 50
2911 Water - System Valve Water System Valve 2066 20	
2912 Water - System Valve Water System Valve Water System Valve 2066 20	
2933 Water - System Valve	66 2066 2141 50
	66 2066 2141 50
2915 Water - System Valve Water	
2916 Water - System Valve Water	66 2066 2141 50
2917 Water - System Valve Water	
2918 Water - System Valve Water	66 2066 2141 50
2919 Water - System Valve Water System Valve Water System Valve Water System Valve Water System Valve DAVID STREET HENRY STREET Shut Off 150 1986 75 45 30 \$5.406 \$2.163 \$3.244 \$9.500 6 6 Average Possible Moderate M 2 2054 10 2062 2062 2138 46	62 2062 2137 46
2920 Water - System Valve Water System Valve Water System Valve 2451 Main Street DAVID STREET HENRY STREET Shut Off 150 1986 75 45 30 \$5,406 \$2,163 \$3,244 \$9,500 6 6 Average Possible Moderate M 2 2054 10 2062 2062 2138 46	52 2062 2137 46
2921 Water - System Valve Water System Valve Water System Valve 2451 Main Street DAVID STREET HENRY STREET Shut Off 150 1986 75 45 30 \$5,406 \$2,163 \$3,244 \$9,500 6 6 Average Possible Moderate M 2 2054 10 2062 2062 2138 46	52 2062 2137 46
2922 Water - System Valve Water System Valve Water System Valve Under System Valve Valve System Valve 2447 James Street EVANS AVENUE END OF JAMES STREET Shut Off 150 1986 75 45 30 \$5,406 \$2,163 \$3,244 \$9,500 6 6 Average Possible Moderate M 2 2054 10 2062 2062 2138 46	62 2062 2137 46
2923 Water - System Valve Water System Valve Water System Valve Water System Valve 2447 James Street EVANS AVENUE END OF JAMES STREET Shut Off 200 1986 75 45 30 \$5,406 \$2,163 \$3,244 \$9,500 6 6 Average Possible Moderate M 2 2054 10 2062 2062 2138 46 9 2064	62 2062 2137 46
2924 Water - System Valve Water System Valve Water System Valve Water System Valve Water System Valve 2447 James Street EVANS AVENUE END OF JAMES STREET Shut Off 150 1986 73 45 30 \$5,406 \$2,163 \$3,244 \$9,500 6 6 Average Possible Moderate M 2 2054 10 2062 2062 2138 46	62 2062 2137 46
2935 Water - System Valve Water System Valve Water System Valve 2447 James Street EVANS AVENUE END OF JAMES STREET Shut Off 150 1986 75 45 30 \$\$5,406 \$2,163 \$3,244 \$9,500 6 6 6 Average Possible Moderate M 2 2054 10 2062 2062 2138 46 20 20 20 20 20 20 20 20 20 20 20 20 20	j2 2062 2137 46
293c Water - System Valve Water System Valve Water System Valve Water System Valve Water System Valve 2427 Evans Avenue JAMES STREET HENRY STREET Shut Off 150 1986 75 45 30 \$5,406 \$2,163 \$3,244 \$9,500 6 6 Average Possible Moderate M 2 2054 10 2062 2062 2138 46	62 2062 2137 46
2927 Water - System Valve Water System Valve Water System Valve Water System Valve Water System Valve Under StreET END Shut Off 150 1986 73 45 30 \$5,406 \$2,163 \$3,244 \$9,500 6 6 6 Average Possible Moderate M 2 2054 10 2062 2062 2138 46	62 2062 2137 46
2932 Water - System Valve Water System Valve Water System Valve Water System Valve Water System Valve 2412 Henry Street EVANS STREET END Shut Off 150 1986 73 45 30 \$5,406 \$2,163 \$3,244 \$9,500 6 6 Average Possible Moderate M 2 2054 10 2062 2062 2138 46	
2939 Water - System Valve Water System Valve Water System Valve Water System Valve Unlikely Moderate M 2 2058 10 2066 2066 2142 50 20	50 2000 2141 00
2930 Water - System Valve Water System Valve	66 2066 2141 50
2931 Water - System Valve Water System Valve Water System Valve 2420 Peter Street RUSSEL HILL ROAD PETER STREET / PETER COURT Shut Off 150 1990 75 49 26 \$6,675 \$2,314 \$4,361 \$9,500 7 7 Good Unlikely Moderate M 2 2058 10 2066 2066 2142 50 20	66 2066 2141 50
2932 Water - System Valve Water System Valve Water System Valve 2420 Peter Street RUSSEL HILL ROAD PETER STREET / PETER COURT Shut Off 150 1990 7 49 26 \$6,675 \$2,314 \$4,361 \$9,500 7 7 Good Unlikely Moderate M 2 2058 10 2066 2066 2142 50	66 2066 2141 50

Current Leveles of Service Expected Levels of Service t/Improvement Year Based on Expected Levels

																							Replacement/Im	provement Yea	r Based on Current	t Levels Service					Replacementilii	Servic	er baseu on Expec	ited Levels
FIXE ASSI ID	D T Subtype	Asset Name	Asset Type	Road GIS ID Road Name	Road From	Road To	Install U Year	Iseful Remainin Life Useful Li	ng Age fe		Amortization	look Value	Replacement Cost	Condition Based On Useful Life	Staff Assessed Condition Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimmal maintenance practices	Current Levels of L Service	Revised evels Service Replacement Year	Year Replacement Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life	Proposed Rehabilitatio Cost (2016 \$	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current + Condition better then			Replacement Re	Revised Remaining Jseful Life
								49	26	\$ 151,762	\$ 52,614 \$	99,148 \$	216,000		7.0					2							\$ -							
	33 Water - Hydrant		Hydrant - Generic/Unknown	2419 Russel Hill Road	ST. JOHN STREET	PETER STREET	1990	75 49	26	\$8,431	\$2,923	\$5,508	\$12,000	7	7	Good	Unlikely	Major	M	2	2058		2058	2058	2133	42				0	2058	2058	2133	42
	34 Water - Hydrant		Hydrant - Generic/Unknown	2416 St. John Street	STATION STREET	RUSSEL HILL ROAD	1990	75 49	26	\$8,431	\$2,923	\$5,508	\$12,000	7	7	Good	Unlikely	Major	М	2	2058		2058	2058	2133	42				0	2058	2058	2133	42
	35 Water - Hydrant		Hydrant - Generic/Unknown	2417 St. John Street	RUSSEL HILL ROAD	PETER STREET	1990	75 49	26	\$8,431	\$2,923	\$5,508	\$12,000	7	7	Good	Unlikely	Major	М	2	2058		2058	2058	2133	42				0	2058	2058	2133	42
	86 Water - Hydrant	,	Hydrant - Generic/Unknown	2417 St. John Street	RUSSEL HILL ROAD	PETER STREET	1990	75 49	26	\$8,431	\$2,923	\$5,508	\$12,000	7	7	Good	Unlikely	Major	М	2	2058		2058	2058	2133	42				0	2058	2058	2133	42
		Fire Hydrant	Hydrant - Generic/Unknown	2417 St. John Street	RUSSEL HILL ROAD	PETER STREET	1990	75 49	26	\$8,431	\$2,923	\$5,508	\$12,000	7	7	Good	Unlikely	Major	М	2	2058		2058	2058	2133	42				0	2058	2058	2133	42
		Fire Hydrant	Hydrant - Generic/Unknown	2417 St. John Street	RUSSEL HILL ROAD	PETER STREET	1990	75 49	26	\$8,431	\$2,923	\$5,508	\$12,000	7	7	Good	Unlikely	Major	M	2	2058		2058	2058	2133	42				0	2058	2058	2133	42
	39 Water - Hydrant		Hydrant - Generic/Unknown	2420 Peter Street		PETER STREET / PETER COURT		75 49	26	\$8,431	\$2,923	\$5,508	\$12,000	7	7	Good	Unlikely	Major	M	2	2058		2058	2058	2133	42				0	2058	2058	2133	42
	10 Water - Hydrant		Hydrant - Generic/Unknown	2420 Peter Street		PETER STREET / PETER COURT	1990	75 49	26	\$8,431	\$2,923	\$5,508	\$12,000	7	7	Good	Unlikely	Major	M	2	2058		2058	2058	2133	42				0	2058	2058	2133	42
	11 Water - Hydrant		Hydrant - Generic/Unknown	3044 Peter Court	PETER STREET	END OF PETER COURT	1990	75 49	26	\$8,431	\$2,923	\$5,508	\$12,000	7	7	Good	Unlikely	Major	M	2	2058		2058	2058	2133	42				0	2058	2058	2133	42
		Fire Hydrant	Hydrant - Generic/Unknown	2417 St. John Street	RUSSEL HILL ROAD	PETER STREET	1990	75 49	26	\$8,431	\$2,923	\$5,508	\$12,000	7	7	Good	Unlikely	Major	M	2	2058		2058	2058	2133	42				0	2058	2058	2133	42
29	13 Water - Hydrant		Hydrant - Generic/Unknown	2418 Russel Hill Road	TETER STREET / TETER COOK	PETER STREET	1990	75 49	26	\$8,431	\$2,923	\$5,508	\$12,000	7	7	Good	Unlikely	Major	M	2	2058		2058	2058	2133	42				0	2058	2058	2133	42
	14 Water - Hydrant		Hydrant - Generic/Unknown	2418 Russel Hill Road	PETER STREET / PETER COURT	PETER STREET	1990	75 49	26	\$8,431	\$2,923	\$5,508	\$12,000	7	7	Good	Unlikely	Major	M	2	2058		2058	2058	2133	42				0	2058	2058	2133	42
29	15 Water - Hydrant	Fire Hydrant	Hydrant - Generic/Unknown	2418 Russel Hill Road	PETER STREET / PETER COURT	PETER STREET	1990	75 49	26	\$8,431	\$2,923	\$5,508	\$12,000	7	7	Good	Unlikely	Major	M	2	2058		2058	2058	2133	42				0	2058	2058	2133	42
29	16 Water - Hydrant	Fire Hydrant	Hydrant - Generic/Unknown	2418 Russel Hill Road	PETER STREET / PETER COURT	PETER STREET	1990	75 49	26	\$8,431	\$2,923	\$5,508	\$12,000	7	7	Good	Unlikely	Major	M	2	2058		2058	2058	2133	42				0	2058	2058	2133	42
29	17 Water - Hydrant	Fire Hydrant	Hydrant - Generic/Unknown	2418 Russel Hill Road	PETER STREET / PETER COURT	PETER STREET	1990	75 49	26	\$8,431	\$2,923	\$5,508	\$12,000	7	7	Good	Unlikely	Major	М	2	2058		2058	2058	2133	42				0	2058	2058	2133	42
	18 Water - Hydrant		Hydrant - Generic/Unknown	2419 Russel Hill Road	ST. JOHN STREET	PETER STREET	1990	75 49	26	\$8,431	\$2,923	\$5,508	\$12,000	7	7	Good	Unlikely	Major	M	2	2058		2058	2058	2133	42				0	2058	2058	2133	42
29	19 Water - Hydrant	Fire Hydrant	Hydrant - Generic/Unknown	2419 Russel Hill Road	ST. JOHN STREET	PETER STREET	1990	75 49	26	\$8,431	\$2,923	\$5,508	\$12,000	7	7	Good	Unlikely	Major	M	2	2058		2058	2058	2133	42				0	2058	2058	2133	42
29	0 Water - Hydrant	Fire Hydrant	Hydrant - Generic/Unknown	2416 St. John Street	STATION STREET	RUSSEL HILL ROAD	1990	75 49	26	\$8,431	\$2,923	\$5,508	\$12,000	7	7	Good	Unlikely	Major	М	2	2058		2058	2058	2133	42				0	2058	2058	2133	42

Amaranth Water - Well Inventory

Current Leveles of Service
Replacement/Improvement Year Based on Current Levels Service Expected Levels of Service t/Improvement Year Based on Expected Levels Service

Renlacement/Improvement	Year	Rased	on C	urrent	evels	Serv

FI	IXED SSET ID	Subtype	Asset Name	Asset Type	Road GIS ID	Road Name	Install Year Life	Il Remaining Useful Life	Age	Historic Cost	2015 Accumulated Amortization	2015 Net Book Value	Replacement Cost	Condition Based On Useful Life	Staff Assessed Condition	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimmal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk I Score	Subsequent Replacement Year	Revised Remaining Useful Life	Proposed Rehabilitation Cost (2016 \$)	Year for Rehabilitation	Extended Lit (Years) due t Betterment	Expected Levels of Service % benefit over Current + Condition better then	Revised Levels Service Replacement Year	Year Replacement S Applying Risk Score - or Staff Override	ubsequent Feplacement Re Year Us	Revised emaining seful Life
								4	22	\$ 95,048	\$ 77,958	\$ 17,090	\$ 120,000			5.0					2							\$ 36,000							
	2814 Wat	er - Well	Municipal Production Well - St John Street	Municipal Production Well	2417 S	it. John Street	2002	25 11	14	\$38,840	\$21,750	\$17,090	\$40,000	4	5	5	Average	Possible	Moderate	M	2	2025	10	2028	2028	2054	12	\$12,000	0 2025	25	5	2050	2050	2075	34
	2815 Wat	er - Well	Municipal Production Well - St John Street	Municipal Production Well	2417 S	it. John Street	1990	25 0	26	\$28,104	\$28,104	\$0	\$40,000	0	5	5	Average	Possible	Moderate	M	2	2013	10	2016	2017	2044	1	\$12,000	0 2021	25	40	2046	2046	2071	30
	2816 Wat	er - Well	Municipal Production Well - Russel Hill Road	Municipal Production Well	2418 R	Russel Hill Road	1990	25 0	26	\$28,104	\$28,104	\$0	\$40,000	0	5	5	Average	Possible	Moderate	M	2	2013	10	2016	2017	2044	1	\$12,000	2023	25	40	2048	2048	2073	32

Current Leveles of Service Expected Levels of Service
Expected Levels of Service
Replacement/Improvement Year Based on Current Levels Service
Replacement/Improvement Year Based on Expected Levels Service

																					Replac	cement/Improve	ment Year Base	d on Current Le	vels Service					Replaceme	nt/Improvement Ye	r Based on Expec	ted Levels Service
Fixed Asset ID	Subtype	Asset Name - Vehicles	Asset Type		ful Remaining e Useful Life	Age	Historic Cost	2015 Accumulated Amortization	2015 Net Book Value	Replacement Cost	Condition Based On Useful Life	Staff Assessed Condition	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure	Numerical Value of Ris of Failure	Year Replacement k due to minimma maintenance practices			Year Replacement Applying Risk Score	Subsequent Replacement Year	2nd Subsequent Replacement Year	Revised Remaining Useful Life	Proposed Rehabilitation Cost (2016 \$)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current	Replacement	Year Replacement Su Applying Risk Re Score - or Staff Override	bsequent Cubo	cement Remaining
					8	8	. ,,.		\$ 1,182,951	\$ 3,904,000			7.0					1								\$ -							
	quipment - Rolling S		Dump Truck	2000	15 0	16	\$157,997	Ψ101,001	\$0	\$275,000	0	4	4	Poor	Likely	Minor	M	2	2014	10	2016	2017	2034	2051	1					0	2017	2033	2049 1
	quipment - Rolling S		Dump Truck	2003	15 2	13	\$183,682	Ψ100,101	4 = 1,101	\$275,000	11	7	7	Good	Unlikely	Minor	L	1	2017	10	2019	2019	2035	2051	3					2019	2019	2034	2049 3
	quipment - Rolling S		Dump Truck	2005	15 4	11	\$182,719	\$133,994	4	\$275,000	3	7	7	Good	Unlikely	Minor	L	1	2019	10	2021	2021	2037	2053	5					2021	2021	2036	2051 5
	quipment - Rolling S		Dump Truck	2008	15 7	8	\$189,773	\$101,212		\$275,000	5	8	8	Good	Unlikely	Minor	L	1	2022	10	2024	2024	2040	2056	8					2024	2024	2039	2054 8
	quipment - Rolling S		Tractor/Loader		20 5	15	\$161,460	. ,	4.0,000	\$300,000	3	6	6	Average	Possible	Major	Н	3	2019	10	2021	2019	2039	2059	3					2021	2020	2040	2060 4
		tock 1989 Case 855D Crawler Dozer	Tractor/Loader	1989	20 0	27	\$154,353	4.0.,000		Not to be replace	0	4	4	Poor	Likely	Insignificant	M																
	quipment - Rolling S		Light Duty Vehicle	2008	8 0	8	\$28,348	ΨZ0,540	ΨΟ	\$32,000	0	3	3	Poor	Likely	Moderate	Н	3	2015	10	2016	2017	2026	2035	1					2016	2017	2025	2033 1
	quipment - Rolling S		Dump Truck	2010	15 9	6	\$218,794	,	\$131,276	\$275,000	6	8	8	Good	Unlikely	Minor	L	1	2024	10	2026	2026	2042	2058	10					2026	2026	2041	2056 10
	quipment - Rolling S		Grader	2012	20 16	4	\$297,587	400,0	Q	\$400,000	8	9	9	Very Good	Rare	Minor	L	1	2030	10	2032	2032	2002	2072	16					2032	2032	2052	2072 16
		tock 2006 Excavator 160	Excavator	2013	20 17	3	\$74,250		400,	\$200,000	9	9	9	Very Good	Rare	Minor	L	1	2031	10	2033	2033	2053	2073	17					2033	2033	2053	2073 17
	quipment - Rolling S		Light Duty Vehicle	2013	8 5	3	\$28,811	,	,	\$32,000	6	9	9	Very Good	Rare Unlikely	Minor	L		2020	10	2021	2021	2029	2037	5					2021	2021	2029	2037 5
	quipment - Rolling S		Tractor/Loader	2013	20 17	3	\$9,667	\$1,450	· ·	\$15,000	9	8	8	Good		Minor	L	1		10	2033	2033	2053		1/					2033	2033	2053	2073 17
	quipment - Rolling S		Snow Removal Grader	2014	15 13	2	\$220,768	\$55,834	,	\$275,000	9	9	9	Very Good	Rare	Minor	L	1	2028	10	2030	2030		2062 2045	14					2030	2030	2045	2060 14
	quipment - Rolling S			2015	10 9	1	\$104,915 \$23,236	\$10,491	\$94,423 \$19.363	\$415,000	9	7	7	Good	Unlikely	Minor	L		2024	10	2025			2045	9					2025	2024	2035	2046 8
	quipment - Rolling S		Light Duty Vehicle	2015	0 /	1	1 -7	\$3,873	\$10,000	\$415,000	9	/	,			MINOT	L	!	2022	10	2023	2023		2039	/					2023	2023	2032	2041 /
	quipment - Rolling S		Grader Grader	2016 15	15	0	\$148,163 \$204.820		\$100,E00	\$415,000 \$415,000		8	8	Good	Unlikely Likely	Minor	L	1	2030	10	2032	2032	2048	2064	16					2032	2031	2046	2061 15
	quipment - Rolling S	tock 1994 Grader Champion 740S4	Grader	1994 20	0	22	\$204,820	\$204,820	\$0	\$415,000		3	3	Poor	Likely	IVIIIIOI	M	2	2012	10	2014	2017	∠040	2063	1					2014	2018	2038	2056 2

Equipment Inventory Current Levels of Service Expe

																				Replacement/Impro		sed on Curren	t Levels Service						ent/Improvement			vels Service
FIXED			Inetall	Useful R	emaining			2015	2015 Net R	Replacement		Condition Condition	Asset Condition	Failure	Consequence	Risk of	Numerical	Penlacement		Revised Levels Service Rep	Subs	sequent	rised Remaining	Proposed	Year for	Extended Life	Levels of	Levels Service	Year Penlacement	Subsequent	2nd Subsequent	Revised
ASSET ID	Subtype Asset Name - Equipment	Asset Type			seful Life	Age Hist		Accumulated	Book Value	Cost	Based on Age	(from Staff Used for	(A Drivers - Desires)		of Failure	Failure	Value of Risk	due to minimmal	Service I	Replacement App	lying Risk Repla	acement	Useful Life	Rehabilitation	Rehabilitation	(Years) due to		Replacement	Applying Risk	Replacement	Replacement	Remaining
AGGET ID			. ou.		oorar Eno			Amortization			- 4	assessment) Analysis	(rio por r nonty realing)	Condition or	or runare	ranaro		maintenance	% benefit	Year	Score	Year	Occidi Elic	Cost (2016 \$)	rtonabintation	Betterment	henefit over	Year	Score - or	Year	Year	Useful Life
					4	6 \$	340,438 \$	189,974		354,494	l .	7.2					1							\$ 20,000								
	Equipment - Equip Honda 8.0 Water pump #1 - Truck Mounte		2007	15	_	9	\$4,916	\$2,949	\$1,966 not	t to be replace	d																	·				
2493	Equipment - Equip STIHL D34 AV Chainsaw	Small Tools	1985	30	-	31	\$489	\$489	\$0 not	t to be replace	e <mark>d</mark>																					
	STIHL Chainsaw	Small Tools	2016	30	30	0	\$350	\$0	\$350	\$350	10	10	Very Good	Rare	Insignificant	L	1	2043	9	2046		2076	30					2046	2046	2076	210	
2494	Equipment - Equip STIHL D26 Chainsaw	Small Tools	2000	30		16	\$507	\$271	\$237	\$600	, ,	5	Average	Possible	Insignificant	L	1	2027	10	2030		2060	14					2030		2053		
	Equipment - Equip Power Skill Saw	Power Tools	2005	5	-	11	\$427	\$427	\$0	\$450		6 6	Average	Possible	Insignificant	L	1	2010	10	2011		2029	1				70	2019				
	Equipment - Equip Angle Grinder small	Power Tools	2005	5	v	11	\$190	\$190	\$0	\$200	-	6 6	Average	Possible	Insignificant	L	1	2010	10	2011		2029	1				70	2019		LUL		
	Equipment - Equip Power Hand Drill small	Power Tools	2005	5	0	11	\$190	\$190	\$0	\$200	0	6 6	Average	Possible	Insignificant	L	1	2010	10	2011	2017 2	2029	1				80	2019	2019	2024	4 202	9 3
	Equipment - Equip Toolbox and contents	Small Tools	1990			26	\$3,513	\$3,513	\$0 not	t to be replace	×																					
	Equipment - Equip Air Compressor	Large Tools				18	\$4,025	\$2,415	\$1,610	\$6,500		7 7	Good	Unlikely	Insignificant	L	1	2025	10	2028		2058	12				0	2028		2058		
	Equipment - Equip Work Bench Vice (x2)	Small Tools	1980			36	\$188	\$188	\$0	\$750		5 5	Average	Possible	Insignificant	L	1	2007	10	2010		2054	1				20	2021	2021	2051		
	Equipment - Equip Floor Jack (x2), Bottle Jack (x2) & Jack-All	Large Tools	1995	10	0	21	\$2,309	\$2,309	\$0	\$3,000	0	5 5	Average	Possible	Insignificant	L	1	2004	10	2005	2017 2	2039	1					2015	2017	2027	7 203	37 1
2504	Equipment - Equip Karcher Pressure Washer	Small Tools	2002			14	\$5,341	\$5,341	\$0 Dis	sposed																						
2505	Karcher Pressure Washer	Small Tools	2012			4	\$5,200	\$2,080	\$3,120	\$7,000	6	6	Average	Possible	Insignificant	L	1	2021	10	2022	2022 2	2032	6					2022	2022	2032	2 204	12 6
	Equipment - Equip Mountable Fertilizer Spreader	Large Tools	2000			16	\$423	\$225	\$197 not		040.000																					
	Equipment - Equip Grader Blades	Grading Equipment				8	\$5,000	\$5,000	\$0 Mai		s \$12,000 per year																		+			
	Equipment - Equip Ice Blades	Grading Equipment				30	\$5,000 \$2,561	\$5,000 \$2,561	\$0 Mai		s \$15,000 per year																		+			
	Equipment - Equip Plow spare #1	Plowing Equipment			-	49	\$3,883	\$3,805	\$78 001	t to be replace	20																		+			
	Equipment - Equip V-Plows (x5)	Plowing Equipment							4	C40 000		5 5	A	Dikl-	More		0	2000	40	2040	2047 0	2044	_	\$00,000	2040	40	^	2025	2000	204	000	.0 40
	Equipment - Equip Truck Water Tank (x2) Equipment - Equip Storage Trailer	Other Equipment Trailers		30		26 43	\$4,918 \$407	\$4,918 \$407	\$0 \$0 Dis	\$40,000	, 0	5 5	Average	Possible	Minor	M	2	2008	10	2010	2017 2	2044	1	\$20,000	2018	10	0	2028	2028	2048	8 206	88 12
	Equipment - Equip Bush Hog Brush Cutter	Large Tools	1973			27	\$336	\$407	\$0 Dis	t to be replace	_								+	+											1	+
		Trailers	1987			29	\$330 60	\$302	\$0 Dia	noood	-								l													
	Equipment - Equip Equipment Float Trailer	Small Tools	2000			16	\$1,268	\$1.015	\$254	\$15,000	2	5 5	Average	Possible	Minor	M	2	2018	10	2020	2020 2	2040	4				0	2020	2020	2040	206	60 4
2510	Equipment - Equip Logging Chains (x15) Equipment - Equip Safety Equipment	Other Personal Safet				11	\$2,373	\$2,373	\$0	\$5,000		7 7	Good	Unlikely	Minor	IVI	1	2010	10	2011		2029	1				0	2020	2020	2040		
2520	Equipment - Equip 3Pt. Grading Blade for tractor	Grading Equipment	,			27	\$336	\$302	\$34 not	t to be replace		' '	0000	Offlikely	WIIIO	_	-	2010	10	2011	2017 2	2023				†	0	2013	2017	2022	202	., .
2520	Equipment - Equip Push Mower	Large Tools	2006	5	0	10	\$386	\$386	\$0 not																	†			-			
	Equipment - Equip Surveying Transit	Other Equipment	1988	30	2	28	\$3,157	\$2,947	\$210	\$2,000	1	6 6	Average	Possible	Insignificant		1	2015	10	2018	2018 2	2048	2			†	30	2027	2027	2057	7 208	7 11
	Equipment - Equip Cutting Torch	Large Tools				11	\$665	\$665	\$0 Dis	enosed			Attologo	1 0001010	mogrimount	-		2010		2010	2010	2010	-						2027		. 200	
LULU	Cutting Torch	Large Tools	2012	10		4	\$1,175	\$470	\$705	\$1,200	6	7 7	Good	Unlikely	Minor		1	2021	10	2022	2022 2	2032	6				0	2022	2022	203	2 204	2 6
2524	Equipment - Equip Chain Pull	Small Tools	2005	30	_	11	\$475	\$174	\$301	\$1,000	6	6	Average	Possible	Insignificant	ī	1	2032	10	2035		2065	19				50	2050	2050	208/	0 211	
	Equipment - Equip 1985 John Deere Riding Mower	Other Equipment	1985	10	0	31	\$1,980	\$1,980	\$0 Dis	sposed	-	-																				
	Equipment - Equip 1990 Land Pride Riding Mower	Other Equipment	1990	10		26	\$1,980	\$1,980	\$0 not	t to be replace	o d																					
	Equipment - Equip Welder Trailer	Trailers	1987	30		29	\$14,124	\$13,653	\$471 Dis	sposed																						
	Equipment - Equip Angle Grinder large	Power Tools	2005	10	0	11	\$332	\$332	\$0	\$350	0	6 6	Average	Possible	Insignificant	L	1	2014	10	2015	2017 2	2029	1				40	2019	2021	2031	1 204	1 5
3131	Equipment - Equip Power Hand Drill large	Power Tools	2005	10	0	11	\$332	\$332	\$0	\$350	0	5 5	Average	Possible	Insignificant	L	1	2014	10	2015		2029	1				30	2018	2018	2028	8 203	88 2
3135	Equipment - Equip Plows spare #2	Plowing Equipment	1991	20	0	25	\$3,294	\$3,294	\$0 not	t to be replace	od																					
3265	Equipment - Equip Roller/Packer	Large Tools	2010	10	4	6	\$17,000	\$10,200	\$6,800	\$20,000	4	8 8	Good	Unlikely	Insignificant	L	1	2019	10	2020	2020 2	2030	4				0	2020	2020	2030	0 204	10 4
	Equipment - Equip Roll Off Bin - Landfill Site	Large Tools	2004	40	28	12	\$7,404	\$2,221	\$5,183 not	t to be replace	od																					
	Equipment - Equip Roll Off Bin - Landfill Site	Large Tools	2001	40	25	15	\$7,452	\$2,795	\$4,658 not	t to be replace	e <mark>d</mark>																					
3336	Equipment - Equip Roll Off Bin - Landfill Site	Large Tools	1998	40	22	18	\$5,956	\$2,680	\$3,276 not	t to be replace	e <mark>d</mark>																					
3386	Equipment - Equip 2006 Stewarts Ford Mower	Other Equipment	2006	10	0	10	\$2,754	\$2,754	\$0 not	t to be replace	d																	·				
4038	Equipment - Equip Deckover trailer	Trailers	2013	20	17	3	\$26,464	\$3,970	\$22,494	\$30,000	9	9 9	Very Good	Rare	Moderate	L	1	2031	10	2033	2033 2	2053	17				0	2033	2033	2053	3 207	3 17
	Equipment - Equip Roller/Packer from Neilson Custom Metal	W Large Tools	2014		8	2	\$18,500	\$3,700	\$14,800	\$20,000		8 8	Good	Unlikely	Insignificant	L	1	2023	10	2024		2034	8				0	2024				
	Equipment - Equip Husky Water Tank	Other Equipment	2014	10	8	2	\$18,909	\$3,782	\$15,127	\$20,000		10 10	Very Good	Rare	Moderate	L	1	2023	10	2024		2034	8				0	2024				
	Equipment - Equip Volvo Retriever Attachment for Wing Mou		2015	10	9	1	\$2,544	\$254	\$2,290	\$2,544		10 10	Very Good	Rare	Insignificant	L	1	2024	10	2025		2035	9				0	2025	2025	2035		
4251	Equipment - Equip Roller / Packer & Custom Lifting Bracket		2015	10	9	1	\$18,317	\$1,832	\$16,485	\$20,000	-	9 9	Very Good	Rare	Insignificant	L	1	2024	10	2025		2035	9				0	2025		2035		-
	2006 Stewarts Ford Mower	used purchase in 201		.0	.0	0	\$1,000	\$0	\$1,000	\$5,000		7 7	Good	Unlikely	Insignificant	L	1	2025	10	2026		2036	10				0	2026	LOLO	2000	201	10
3215			1991	15	0	25	\$1,790	\$1,790	\$0	\$5,000	-	5 5	Average	Possible	Insignificant	L	1	2005	10	2007		2043	1				0	2015	2030	2045		
3275	GLASS SLIDING DOOR COOLER (BAR)		1991	15	0	25	\$1,790	\$1,790	\$0	\$5,000		5 5	Average	Possible	Insignificant	L	1	2005	10	2007		2043	1				0	2015	2030	2045	5 206	-
3276			1991	15		25	\$3,273	\$3,273	\$0	\$5,000	0 0	5 5	Average	Possible	Insignificant	L	1	2005	10	2007	2017 2	2043	1				0	2015	2020	2035	5 205	50 4
3282						25	\$1,836	\$1,836	\$0 not	t to be replace	0		A.,	D- 21	leade 20		1	2022	40	2011	2017	2042	4				0	2011				
3283			1991	20		25	\$3,731	\$3,731	\$0	\$5,000		5 5	Average	Possible	Insignificant		1	2009	10	2011		2043	1				0	2015	2033	2053		
3284 3285		CLICAD/DLATEC	1991	20		25	\$6,211	\$6,211 \$3,924	\$0	\$10,000		5 5	Average	Possible	Insignificant		1	2009	10	2011		2043	1				U	2015	2033	2053		
3285		DUGAR/PLATES				25	\$3,924 \$2,806	\$3,924	\$0 \$0	\$7,500	0	5 5	Average	Possible	Insignificant	L L	1	2009	10	2011	2017 2	2043	1				0	2015	2027	2047	7 206	57 11
3286			1991	_		25	\$2,806	\$2,806	≱U DIS	sposed \$5.000	0	5 5	Averege	Donnihl-	Incignifies -+		1	2005	10	2007	2017	2043					0	2015	2000	2037	7 205	52 6
3333 4166			2014	15			\$4,369	\$3,665 \$583	\$3,786	,			Average Van Cood	Possible	Insignificant	-	1	2005	10				14				0		2022	2037		_
3338	3,		1991	40		2 25	\$2,561	\$2,561	\$3,700	\$5,000 \$4,500		5 5	Very Good	Rare Possible	Insignificant	-	1	2028 2027	10	2030		2046	15				08	2042 2031		2057	. 201	
3336			2004	15	15 3		\$1,096	\$1,096	\$0 \$0	\$2,500		5 5	Average	Possible	Insignificant		1	2027	10	2031		2036	4				0	2031		2071		
4020	NOTO TOESER		2004	20		11	\$1,090	\$1,096	\$0 0.2	\$45,000	-	5 5	Average	Possible	Insignificant		1	2018	10	2025		2045	9				0	2020		2035		
4269				20		0	10093	505	9588	12000		10 10	Average Very Good	Rare	Insignificant Insignificant		1	2023	11	2036		2056	20				0	2025				
4021			2005			11	\$16,378	\$16,378		t to be replace	- 10	10 10	very Good	Italo	magninualit			2034	- ''	2000	2000 2		20					20301	2030	2030	207	20
3360			2003			10	\$1,403	\$1,403	\$0 Die	nosed	-																					+
3337		:	2007	20		9	\$882	\$397	\$485	\$1,500	0 6	6	Average	Possible	Insignificant		1	2025	10	2027	2027 2	2047	11	1		1	50	2037	2037	2057	7 207	7 21
3222			2007		0	7	\$8.424	\$8,424	\$0 Die	nosed			Avelage	i ossibiti	magninualit			2023	10	2021	2021 2	20-11					30	2037	2037	2037	. 207	
4263	Roller and Bracket			10		0 \$	18.826 \$	1.883	\$ 16.943 S	20,000	10	10 10	Very Good	Rare	Minor	1 -	1	2025	10	2026	2026 2	2036	10				0	2026	2026	2036	6 204	10
													Very Good	Rare	Minor		- :		10	2032		2048	16	1	+	1	0					
4264	Ditch Bucket		2016	15	15	0 \$	19.269 \$	1.285	\$ 17.984 \$	20.000	10							2030										2032	2032	2047		

Current Leveles of Service Expected Levels of Service

																						Replacemen	t/Improvement	Year Based on (Current Levels Servic	9					R	eplacement/lm	provement Year B	ased on Expecte	d Levels Service	à	
FIXED ASSET ID	Subtype	Asset Name	Asset Type		Useful Re Life Us		Age	Cost A	mortization	2015 Ne Book Vali	ue C	ost	Condition Based On Useful Life	Staff Assessed Condition	Condition Use for Analysis	d Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure	Numerica Value of Risk of Failure		of Levels Service Replacemen		st Subseque Sk Replacement	nt Revised Nemaining Year Useful Life	Propose Rehabilitat Cost (2016	Year for Rehabilitat	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current + Condition better then	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override	k Replacement Year	2nd Subsequent Replacement Year	3rd Subsequent S Replacement Re Year			Revised Remaining Useful Life
						3		\$ 276,992 \$		\$ 29,0	10 \$	83,247			6.2				0	2						\$ -											
	9 Other - Support	Radio Equipment	Cell Phone/Pager	1980	13	0	36	\$5,637	\$5,637		\$0 Dispose	ed																									
	1 Other - Support	Laptops 2009	Computer Hardware	2009	4	0	7	\$2,932	\$2,932		\$0 Dispose	ed																									
	0 Other - Support	Laptop for Council Chambers	Computer Hardware	2010	4	0	6	\$1,117	\$1,117			\$1,200	0	5	5	Average	Possible	Minor	M	2	2014	201	4 20	17 2024	1				40	2016	2017	202	1 2025	2029	2033	2037	1
	2 Other - Support	Canon 5075 Digital Copier - Black & White	Computer Hardware	2010	10	4	6	\$13,392	\$8,035	\$5,		\$15,000	4	5	5	Average	Possible	Minor	M	2	2019	201	9 20	19 2029	3				5	2020	2020	0 2028	8 2038	2048	2058	2068	4
	0 Other - Support	Power Point Projector	Computer Hardware	2006	10	0	10	\$1,338	\$1,338			e replaced																									
	1 Other - Support	GIS Software Support	Computer Software	2001	5	0	15	\$12,512	\$12,512			\$15,000	0	5	5	Average	Possible	Minor	M	2	2006	200	6 20	17 2033	1				40	2008	2017	2021	2 2026	2031	2036	2041	1
	2 Other - Support	Geosmart Project software	Computer Software	2004	5	0		\$133,474	\$133,474		\$0 Not to b	e replaced																									
	3 Other - Support	Planning Laptop	Computer Hardware	2005	4	0	11	\$1,535	\$1,535		\$0 dispose	,																									
	6 Other - Support	Coloured Printer (Canon 3170U)	Computer Hardware	2006	10	0	10	\$11,879	\$11,879			\$15,000	0	5	5	Average	Possible	Minor	M	2	2015	201	5 20	17 2028	1				40	2019	2019	9 2029	9 2039	2049	2059	2069	3
335	7 Other - Support	Kyocera (FS-CSO16N)	Computer Hardware	1997	10	0	19	\$856	\$856		\$0 Dispose																										
335	8 Other - Support	Kyocera (FS-2000D) (chq printer)	Computer Hardware	2007	10	1	9	\$1,075	\$967	\$	108	\$1,000	1	5	5	Average	Possible	Moderate	M	2	2016	201	6 20	17 2027	1				30	2019	2019	2029	j 2039	2049	2059	2069	3
	9 Other - Support	Digital Camera	Computer Hardware		5	0	10	\$703	\$703		\$0 Dispose	ed																									
	7 Other - Support	D-Link (Ethernet Switch @ copier)	Computer Hardware	2007	5	0	9	\$86	\$86		\$0 Dispose	ed																									
	8 Other - Support	D-Link (Gigabit Switch @ server)	Computer Hardware	2007	5	0	9	\$456	\$456		\$0 Dispose	ed																									
	9 Other - Support	D-Link (Wireless Router @server)	Computer Hardware	2007	5	0	9	\$130	\$130		\$0 Dispose	ed																									
	0 Other - Support	Tape Drive	Computer Hardware	2007	5	0	9	\$2,625	\$2,625		\$0 Dispose	ed																									
	1 Other - Support	Panasonic Scanner (Dave office)	Computer Hardware	2003	10	0	13	\$9,586	\$9,586		\$0 Dispose	d																									
	2 Other - Support	Panasonic Scanner Software	Computer Software	2004	10	0	12	\$11,455	\$11,455		\$0 Dispose	d																									
	5 Other - Support	Computers/Monitors/Keyboard/Mouse/UPS	Computer Hardware	2008	4	0	8	\$11,497	\$11,497		\$0 Dispose	d																									
	9 Other - Support	Communication Equipment - Phones	Cell Phone/Pager	1998	5	0	18	\$10,971	\$10,971		\$0	\$7,500	0	5	5	Average	Possible	Moderate	M	2	2003	200	3 20	17 2036	1				40	2005	2017	7 2022	2 2027	2032	2037	2042	1
	7 Other - Support	Karen's Desktop	Computer Hardware	2010	4	0	6	\$1,645	\$1,645		\$0 Dispose	ad					1		1								_						+				
	2 Other - Support	Server/TapeDrive & BackUp	Computer Hardware	2011	5	0	5	\$10,878	\$10,878		\$0 Dispose	ad					1		1								_						+				
	3 Other - Support	TSF Photocopier	Computer Hardware	2012	10	6	4	\$4,207	\$1,683	\$2,	Dispose	d															_										
	4 Other - Support 2 Other - Support	Computers and laptops	Computer Hardware	2012	4	0	4	\$1,557	\$1,557		\$0	\$2,500	U	5	5	Average	Possible	Minor	M	2	2016	201	6 20		1	 	_		40	2018	2018	2022	2 2026	2030	2034	2038	
	- contract	Sue's Laptop Christine's Computer - Dell Computer and Wire	Computer Hardware	2009	4	0	/	\$1,343	\$1,343		\$U	\$1,500	U	5	5	Average	Possible	Moderate	M	2	2013	201	9 20	17 2025	1 3	 	_		40	2015	2017	202	2025	2029	2033	2037	1
	2 Other - Support 3 Other - Support	Christine's Computer - Dell Computer and Wire Fleet Management GPS & Software		2015	4	3	1	\$/19 \$16.715	\$180	\$1	339	\$16.715	8	-	8	Good Very Good	Unlikely	Moderate Minor	M	2	2019 2024	201	0 20	10 2020	Ů	 	_		0	2019	2019	202	2027	2031	2035	2039	3
	4 Other - Support		Computer Software Computer Software	2015	10	9	-	\$16,715	\$1,6/2	\$15,0	344	\$2 013	9	-	9		Rare	Minor		1	2024	202	4 202		8	 			0	2024	2024	2034	2044	2054	2064	2074	- 0
	9 Other - Support	Record Management Software	Computer Software	2015	10	9	1	2640	\$201	\$1,0	112	3000	9		9 4	Very Good Very Good	Rare	Minor		1	2024	202		2004	5	 			0	2024		1 2034	2044	2054	2064	2074	- 0
	Other - Support	Computers	Computer Software	2016	5	5	0	2640	528	- 2	112	3100	10	1 -		0 Very Good	Rare	Minor		1	2021	202	0 202		5	 			0	2021	2021	2021	2031	2036	2041	2046	- 4
429	o otner - support	Computers	Computer Software	2016	4	4	U	2020	505	- 18	פוכ	2100	- 10	1	1	U very G000	Rare	MINOR	L	1	2020	202	U 202	2024	4				U	2020	2020	2024	2028	2032	2036	∠040	**

Amarann Current Leveles of Service Expected Levels of Service Expected Levels of Service Replacement/improvement Year Based on Expected Levels Replacement/improvement Year Based on Expected Levels Replacement/improvement Year Based on Expected Levels

																					Replacement/In	nprovement Year	Based on Curre	ent Levels Service						Replacement/Impro	Service	on Expected	Leveis
Fixed Asset # Subtype	Location	Asset Name - Facility Components	Description	Install Year	Useful Rema Life Usefu	ining Il Life		2015 Accumulated Amortization System	2015 Net Book Value System	Replacement Cost	Condition Based On Useful Life	Condition	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected	Consequence of Failure	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimmal maintenance		Revised Levels Service eplacement Year	Year Replacement Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life	Proposed Rehabilitation Cost (2016 \$)	Year for Rehabilitation	2nd Proposed Rehabilitation Cost (2016 \$)	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current +	Replacement Year Sco			Revised Remaining Jseful Life
					3-	4 29	\$ 1,605,483	\$ 603,133	\$ 1,009,867	\$ 5,033,000			6.5					2							\$ 309,000								
		Municipal Office																															
1 Excilition	Municipal Office	Municipal Office - Shell	Administration Building	1991	100 7	5 26	\$568 695	\$142.174	\$426.521	\$1,200,000		7	7	Good	Unlikely	Major	M	2	2081	10	2001	2001	2191	76					0	2001	2001	2101	76
		ice Domestic Well	Administration banding	1991		5 25	\$9,665				5	7	7	Good	Unlikely	Major	M	2	2036	10	2041	2041	2091	25	\$4,500	2018		20	10	2038	2038	2088	22
3140 Water W	cii ividiiicipai Oili	Septic System - Administration		1331	- SO - E	20	\$0,000	\$ 4,000	ψ4,00 <u>L</u>	ψ10,000				Cood	Ommony	major		-	2000		2041	2041		20	\$4,000	2010		20		2000	2000	2000	
		Building		1991	50 2	5 25	\$28,810	\$14,405	\$14,405	\$60,000		5	5	Average	Possible	Moderate	M	2	2036	10	2041	2041	2091	25					40	2061	2061	2111	45
	. Municipal Offic	ice Municipal Office - Interior	Wall Finishes	1991		_	\$225.613	\$112.807	4		_	_	_								2041		2091										
		· · · · · · · · · · · · · · · · · · ·		1991	50 2	5 25	\$225,613	\$112,807	\$112,807	\$450,000	5	/	- /	Good	Unlikely	Minor	L	1	2036	10	2041	2041		25					10	2046	2046	2096	30
4265 Facilities -	No Municipal Office	Roof Coverings Township Office	Roof Coverings	2016	25 2	5 0	\$22,489	\$900	\$21.589	\$25,000	10		10	Very Good	Rare	Major	М	2	2039	10	2042	2042	2068	26					0	2042	2042	2067	26
							, , , ,		, ,,,,,	, ,,,,,				1									2089										
		Municipal Office-HVAC	Special HVAC Systems & Eq	1991	_		\$78,312		\$39,156		5	4	4	Poor	Likely	Moderate	Н	3	2036	10	2041	2039		23	\$28,000	2017	\$12,000 2021	25	0	2042	2042	2092	26
4252	NEW PLUMBIN	NG FIXTURES FOR WOMENS TOILET	IS AND MENS URINAL - ADN	2015	15 1-	4 1	\$4,042	\$404	\$3,637	\$5,000	9		9	Very Good	Rare	Minor	L	1	2029	10	2031	2031	2047	15					0	2031	2031	2046	15
4002 Facilities -	No Municipal Office	Municipal Office - Boardroom	Integrated Construction	2012	30 2	6 4	\$5,318	\$709	\$4,609	\$5,500	9	9	9	Very Good	Rare	Insignificant	L	1	2039	10	2650	2650	3288	634					0	2650	2650	2680	634
		Sub-Total			5	8 25	\$942,943	\$315,388	\$627,556	\$1,802,500			6.9					2							\$32,500								
		Public Works Garage																															
11 Facilities -	Bu Public Works (Gar Garage		1965	80 2	9 51	\$83,706		\$30,344		4	6	6	Average	Possible	Major	Н	3	2037	10	2045	2037	2117	21	\$125,000	2018		20		2038	2038	2118	22
Water - We	ell Garage	Domestic Well			50 0	51	\$1,380		\$0	\$15,000	0	7	7	Good	Unlikely	Major	M	2	2010	10	2015	2017	2069	1					60	2045	2045	2095	29
		Septic System - Garage		1965	50	51	\$2,301	\$2,301	\$0	\$25,000	0	5	5	Average	Possible	Moderate	M	2	2010	11	2016	2017	2069	1					40	2036	2036	2086	20
		r Honda 6500 Generator - Public		1995	15 0	21	\$3,848	\$3,848	\$0	\$5,000	8		8	Good	Unlikely	Major	M	2	2009	10	2011	2017	2039	1					0	2015	2025	2040	9
		Gai Propane Heater (x2) - Public Wo		2007	40 3	1 9	\$5,400	ψ-j=-0	\$4,185	4-2,000	8	8	8	Good	Unlikely	Moderate	M	2	2043	10	2047	2047		31					0	2047	2047	2087	31
		Gai MANUAL GARAGE DOORS (X3)		2011		5 5	\$10,734	72,312	\$9,392	4.2,000	9		9	Very Good	Rare	Minor	L	1	2047	10	2051	2051		35					0	2051	2051	2091	35
4005 Facilities -	No Public Works (Gai Public Works Garage - New Floo	Floor Finishes	2011		5 5	\$19,981	\$2,498	\$25,000 \$3,857		9	7	7	Good	Unlikely	Minor	L	1	2047	10	2051	2051		35					0	2051	2051	2091	35
		Oil/Water Separator		2008		2 8	\$4,592	\$735			8	9	9	Very Good	Rare	Major	M	2	2053	10	2058	2058	2108	42					0	2058	2058	2108	42
4009 Facilities -	е	New Heater Propane (x2) at Sh Garage Doors (x3) - Shop	Exterior Doors	2011		5 5	\$5,620		\$4,918 \$17,973			/	/	Good	Unlikely	Moderate	M	2	2038	10	2041	2041	2071	25					0	2041	2041	2071	25
4010 Facilities -	- 14 - 14 - 14 - 14 - 14 - 14 - 14 - 14			2012		6 4	\$19,969		*	420,000	9	8	8	Good	Unlikely	Moderate	M	2	2039	10	2042			26	80.000	2047			0	2042	2042	2072	26
4011 Facilities - 4036 Facilities -	е	3 Exterior Windows	Lighting & Branch Wiring	2012	30 2	6 4	\$2,938 \$8,075		\$2,644 \$7,469		9	9	9	Very Good	Rare	Minor	L	1	2039	10	2042		2072	26	\$6,000	2017			0	2042	2042	2072	26
4036 Facilities -	Nosnop	Office Remodel - office and lune Sub-Total	cn room	∠013	30 2	9 49	\$8,075 \$168.543		\$7,469 \$105.782		9	9	6.1	Very Good	Rare	Minor	L	1	2040 2037	10	2043	2043	2073	2/	60.00				U	2043	2043	2073	
		Sand Domes				9 49	\$168,543	\$70,278	\$105,782	\$2,680,500			0.1					3	2037						\$0.00								
12 Facilities -	Decilations	old Sand/Salt Cover-All	Sand/Salt Dome	2000	25	10	\$219.856	\$140.708	\$79.148	\$275.000	4			Average	Possible	Moderate	- 14	-	2023		2023	2022	2048	7	\$75,000	2020		10	-	2020	2020	2055	4.4
3223 Facilities -		new Sand/Salt Cover-All	Sand/Salt Dome Sand/Salt Dome	2000	25 9	8 7	\$219,856		\$79,148	,		- 7	7	Good	Unlikely	Moderate	M	2	2023		2023	2023	2048	10	\$75,000			10	0	2030	2030	2055	22
3223 Facilities - I	bullulligs	Sub-Total	Sanu/ San Donle	2009		4 12	\$493.996		\$276.529				6.5	Good	Ornikely	woderate	TVI	2	2032		2032	2032	2007	10	\$150.000			10		2036	2030	2003	

Current Leveles of Service Expected Levels of Service
placement/Improvement Year Based on Current Levels Service Replacement/Improvement Year Based on Expected Levels

| Replacement/Improvement Year Based on Current Levels Service Replacement/Improvement Year Based on Expected Levels

																							Replacement/	Improvement	Year Based on Curre	ent Levels Service						•	Servi	/ice	•
FIXE ASSE ID	D ET Subtype	Asset Name	Asset Type	Install Year	Useful Life	Remaining Useful Life	Age	Historic Cost	Amortization	2015 Ne Book Val	ue Cos	Bas Use	ed On As	Staff ssessed ondition	ondition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure	Numerica Value of Risk of Failure	Year Replacement due to minimmal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacemen Applying Ris Score	t Subsequent k Replacement Yea	Revised Remaining If Useful Life	Proposed Rehabilitation Cost (2016 \$)		Extended Life (Years) due to Betterment	Note	Expected Levels of Service % benefit over Current + Condition better then	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score - or Staff Override		Revised Remaining Useful Life
						9	16	\$ 310,825	\$ 188,246	\$ 122,5	79 \$ 30	01,500			7.1					1							\$ 10,000								
	2 Facilities - Buildings	Utility Shed - 6th Line	Storage Building	2003	30	17	13	\$10,770	\$4,66	7 \$6,	103 \$	17,000	6	9	9	Very Good	Rare	Insignificant	L	1	2030	10	2033	203	3 2063	17					20	2039	2039	2069	23
	3 Facilities - Buildings	Baseball Backstop - Diamond A - 6th Line	Ball Field	1992	20	0	24	\$6,679	\$6,679	9	\$0 \$	15,000	0	7	7	Good	Unlikely	Insignificant	L	1	2010	10	2012	201	7 2042	1					60	2024	2024	2044	8
	4 Facilities - Buildings	Baseball Backstop - Diamond B - 6th Line	Ball Field	1991	20	0	25	\$6,593	\$6,59	3	\$0 \$	15,000	0	4	4	Poor	Likely	Insignificant	M	2	2009	10	2011	201	7 2043	1	\$10,000	2020	20	Referbish ball diamonds	30	2040	2040	2060	24
	5 Facilities - Buildings	Soccer Field 1 - 6th Line	Soccer Field	1990	20	0	26	\$3,915	\$3,91	5	\$0	\$6,000	0	7	7	Good	Unlikely	Insignificant	L	1	2008	10	2010	201	7 2044	1					60	2022	2022	2042	6
	23 Facilities - Buildings	Ball Field - St John Street	Ball Field	1991	20	0	25	\$6,008	\$6,00	8	\$0 \$	15,000	0	8	8	Good	Unlikely	Insignificant	L	1	2009	10	2011	201	7 2043	1					70	2025	2025	2045	9
	24 Facilities - Buildings	Playground - St John Street	Playground	1991	20	0	25	\$32,936	\$32,93	6	\$0 Disposed																								
30:	29 Facilities - Buildings	Bowling Green Cemetery	Cemetery	1850	100	0	166	\$920	\$920	D	\$0 Not to be	replaced																							
31	44 Facilities - Buildings	Hughson Family Cemetery	Cemetery	1850	100	0	166	\$55	\$55	5	\$0 Not to be	replaced																							
31	45 Facilities - Buildings	Crombie's Cemetery	Cemetery	1850	100	0	166	\$354	\$354	4	\$0 Not to be	replaced																							
31	46 Facilities - Buildings	Laurel Cemetery	Cemetery	1854	100	0	162	\$1,336	\$1,33	6	\$0 Not to be	replaced																							
31	60 Facilities - Buildings	Shed - Landfill Site	Storage Building	1999	30	13	17	\$8,839	\$5,00	9 \$3,	830 will not be	e replaced																							
32:	24 Facilities - Buildings	Playground - 6th Line	Playground	2009	15	8	7	\$39,165	\$18,27	7 \$20,	888 \$	45,000	5	7	7	Good	Unlikely	Insignificant	L	1	2023	10	2025	202	25 2041	9					10	2027	2028	2043	12
32	64 Facilities - Buildings	Pavillion / Picnic Shelter - 6th Line	Picnic Shelter	2010	30	24	6	\$37,394	\$7,479	9 \$29,	915 \$	40,000	8	9	9	Very Good	Rare	Insignificant	L	1	2037	10	2040	204	0 2070	24					5	2042	2042	2072	26
40	01	PAVILLION / PICNIC SHELTER - ELECTRICAL	INSTALLATION - 6TH LINE	2011	30	25	5	5235.08	872.53	1 4362	2.57		8		8	Good	Unlikely	Insignificant	L	1	2038	10	2041	204	11 2071	25					0	2041	2041	2071	25
40	00 Facilities - Buildings	Waldemar Playground	Playground	2011	15	10	5	\$20,269	\$6,75	6 \$13,	513 \$	22,000	7	8	8	Good	Unlikely	Insignificant	L	1	2025	10	2027	202	27 2043	11					5	2028	2028	2043	12
40	37 Facilities - Buildings	Paved Parking Lot - Township Office	Parking Lot	1990	30	4	26	\$76,643	\$66,42	4 \$10,	219 \$	90,000	1	6	6	Average	Possible	Insignificant	L	1	2017	10	2020	202	2050	4					40	2032	2032	2062	16
32	05 Facilities - Linear	Waldemar Park - Chain Link Fence	Fence	2008	20	12	8	\$21,525	\$8,610	0 \$12,	915 \$	25,000	6	7	7	Good	Unlikely	Insignificant	L		1 2026	10	2028	202	2048	12					5	2029	2029	2049	13
32	07 Facilities - Linear	Waldemar Park - Walkway	Trail	2008	20	12	8	\$27,122	\$10,84	9 \$16,	273	\$6,000	6	6	6	Average	Possible	Insignificant	L		1 2026	10	2028	202	2048	12					0	2028	2028	2048	12
42	88	Pavillion Enclosures	Wind Block for Admin Pavilion	2016	10	10	0	5068	507	7 4	561	\$5.500	10		10	Very Good	Rare	Insignificant	L		1 2025	10	2026	202	2036	10					0	2026	2026	2036	10

Amaranth Roads - Street Light Inventory Current Leveles of Service
Replacement/Improvement Year Based on Current Levels Service Expected Levels of Service

Replacement/Improvement Year Based on Expected Levels Service

Expected Revised Year

											A	Dealeability of				Year	Revised	on ourient Levels o	CI VICE				Replaceme	Expected	Povised 0	n Expected Leve Year	is Service	
Fixed			Install Usefu	Il Pemaining	. Historia	2015	2015 Net	Replacement Condition	Assessed	Condition	Condition	Failure	Consequence	Risk of	Numerical	Penlacement Current Levels	I avale Sarvica	Year Replacement	Subsequent	Revised	Rehabiliation	Pehabiliation	Extended Life		Levels Service		Subsequent	Revised
Asset # Subtype	Asset Name	Asset Type	Street ID Year Life		Age Cost	Accumulated	Book	Cost Based On	Condition	Used for	(As per	(Based on	of Failure	Failure	Value of Risl	k due to of Service %	Replacement	Applying Kisk	Replacement	Remaining	Year	Cost (2016)	(Years) due		Replacement		Replacement	Remaining
A3301 #			Teal Life			Amortization	Value	Useful Life	Oonation	Analysis	Priority	Condition or	Oi i allule	randre	of Failure	minimmal benefit	Year	Score	Year	Useful Life	i cai	COSt (2010)	to Betterment	benefit over	Year	Score - or	Year	Useful Life
				4	26 \$ 148,68	4 \$ 129,536	\$ 19,148	\$ 91,500		5.4	THOTAL	Condition of			2	THI THI THE	160					\$ -		Delicit Over	160	OCOTE - OI		
758 Roads - Street Light	Industrial Streetlight - 5th SR - Amaranth / Mono TL	Industrial	1980 25		36 \$1,12		\$0	\$1,000 0	5	5	Average	Possible	Minor	M	2	2003 10	2006	2017	2054	1				20	2011	2017	2042	1
	Industrial Streetlight - east end of Devonleigh Drive - 30th SR	Industrial	2001 25	5 10	15 \$2,6	16 \$1,569	\$1,047	\$1,000 4	5	5	Average	Possible	Minor	M	2	2024 10	2027	2027	2053	11				0	2027	2027	2052	11
	Industrial Streetlight - 30th SR west of Amaranth / Mono TL	Industrial	2001 25	5 10	15 \$2,61	16 \$1,569	\$1,047	\$1,000 4	5	5	Average	Possible	Minor	М	2	2024 10	2027	2027	2053	11				0	2027	2027	2052	11
	Industrial Streetlight - 9th Line south of 15th SR	Industrial	1990 25		26 \$2.10			\$1,000 0	5	5	Average	Possible	Minor	M	2	2013 10	2016	2017	2044	1				20	2021	2021	2046	5
		Industrial	1990 25		26 \$2,10			\$1,000 0	5	- 5		Possible	Minor	M	2	2013 10	2016	2017	2044	1				20	2021	2021	2046	- 5
	Industrial Streetlight - 8th Line south of County Rd 10	Industrial	1990 25		26 \$2,10			\$1,000 0	5	5	Average		Minor	NA.	2			-							2021		2046	- 5
	Industrial Streetlight - 8th Line north of 5th SR			5 0					5	5	Average	Possible		M		2013 10	2016	2017	2044	1				20	-	2021		5
	Industrial Streetlight 9th Line north of 5th SR	Industrial	1990 25	5 0	26 \$2,10			\$1,000 0	5	5	Average	Possible	Minor	M	2	2013 10	2016	2017	2044	1				20	2021	2021	2046	- 5
766 Roads - Street Light	Industrial Streetlight - 8th Line south of 15th SR	Industrial	1990 25		26 \$2,10			\$1,000 0	5	5	Average	Possible	Minor	M	2	2013 10	2016	2017	2044	1				20	2021	2021	2046	5
767 Roads - Street Light	Industrial Streetlight 2nd Line south of 30th SR	Industrial	2001 25	5 10	15 \$2,6	16 \$1,569	\$1,047	\$1,000 4	5	5	Average	Possible	Minor	M	2	2024 10	2027	2027	2053	11				0	2027	2027	2052	11
768 Roads - Street Light	Industrial Streetlight - 30th SR - 2nd Line	Industrial	2001 25	5 10	15 \$2,6	16 \$1,569	\$1,047	\$1,000 4	5	5	Average	Possible	Minor	M	2	2024 10	2027	2027	2053	11				0	2027	2027	2052	11
	Industrial Streetlight - Station St east of bend	Industrial	1992 25	5 1	24 \$2,2	16 \$2,127	\$89	\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
	Industrial Streetlight - Station St west of bend	Industrial	1992 25	5 1	24 \$2.2			\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
	Industrial Streetlight - Station St - Peter St	Industrial	1992 25		24 \$2,2			\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
		Industrial	1992 25	_	24 \$2,2			\$1,000 0				Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
	Industrial Streetlight - Station St west of Peter St			_					5	5	Average			IVI										20				
	Industrial Streetlight - Station St east of St. John St	Industrial	1992 25		24 \$2,2			\$1,000 0	5	5	Average	Possible	Minor	M		2015 10	2018	2018	2044					20	2023	2023	2048	
	Industrial Streetlight - Station St - St. John St	Industrial	1992 25		24 \$2,2			\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	
775 Roads - Street Light	Industrial Streetlight - Station St at Pump House	Industrial	1992 25	_	24 \$2,2			\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
	Industrial Streetlight - Station St at west end	Industrial	1992 25	5 1	24 \$2,2	16 \$2,127	\$89	\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
777 Roads - Street Light	Industrial Streetlight - Mill St - Station St	Industrial	1985 25	5 0	31 \$1,63	30 \$1,630	\$0	\$1,000 0	5	5	Average	Possible	Minor	M	2	2008 10	2011	2017	2049	1				20	2016	2017	2042	1
	Industrial Streetlight - Mill St - between David St - Station St.	Industrial	1985 25	5 0	31 \$1,63	30 \$1,630	\$0	\$1,000 0	5	5	Average	Possible	Minor	M	2	2008 10	2011	2017	2049	1				20	2016	2017	2042	1
	Industrial Streetlight - Mill St - David St	Industrial	1985 25	5 0	31 \$1.63	30 \$1.630	\$0	\$1,000 0	5	5	Average	Possible	Minor	М	2	2008 10	2011	2017	2049	1				20	2016	2017	2042	. 1
	Industrial Streetlight - Mill St just south of David St	Industrial	1985 25		31 \$1,63			\$1,000 0	5	5	Average	Possible	Minor	M	2	2008 10	2011	2017	2049	1				20	2016	2017	2042	1
		Industrial	1985 25	5 0	31 \$1,63			\$1,000 0	5	5		Possible	Minor	M	2	2008 10	2011	2017	2049	1				20	2016	2017	2042	1
	Industrial Streetlight - Mill St just north of Church St	Industrial	1985 25	5 0	31 \$1,63			\$1,000 0	, , ,	- F	Average	Possible	Minor	N4	2		2011	2017	2049	4	+	†	+	20	2016	2017	2042	1
	Industrial Streetlight - Mill St at south end near Church St	Industrial	1985 25	5 0					E		Average	Possible	Minor	M	2	2008 10	2011	2017		- 1		1	1		2016	2017	2042	1
	Industrial Streetlight - Church St south end								5	<u>5</u>	Average				2				2049	1		-	1	20		2017		
	Industrial Streetlight - Church St north end	Industrial	1985 25	5 U	31 \$1,63			\$1,000 0	5	5	Average	Possible	Minor	M	2	2008 10	2011	2017	2049	1		1	1	20	2016	2017	2042	1
	Industrial Streetlight - Henry St - Main St	Industrial	1985 25	5 0	31 \$1,63			\$1,000 0	5	5	Average	Possible	Minor	M	2	2008 10	2011	2017	2049	1		1	1	20	2016	2017	2042	1
	Industrial Streetlight - Henry St between Main St and Evans Avenue		1985 25	5 0	31 \$1,63			\$1,000 0	5	5	Average	Possible	Minor	M	2	2008 10	2011	2017	2049	1			1	20	2016	2017	2042	1
	Industrial Streetlight Henry St - Evans Ave	Industrial	1985 25		31 \$1,63			\$1,000 0	5	5	Average	Possible	Minor	M	2	2008 10	2011	2017	2049	1				20	2016	2017	2042	1
788 Roads - Street Light	Industrial Streetlight - James St - Evans Ave	Industrial	1985 25	5 0	31 \$1,63			\$1,000 0	5	5	Average	Possible	Minor	M	2	2008 10	2011	2017	2049	1			1	20	2016	2017	2042	1
789 Roads - Street Light	Industrial Streetlight - James St south of Evans Ave	Industrial	1985 25	5 0	31 \$1,63	30 \$1,630	\$0	\$1,000 0	5	5	Average	Possible	Minor	M	2	2008 10	2011	2017	2049	1				20	2016	2017	2042	. 1
	Industrial Streetlight - James St at Monitoring Well	Industrial	1985 25	5 0	31 \$1,63	30 \$1,630	\$0	\$1,000 0	5	5	Average	Possible	Minor	M	2	2008 10	2011	2017	2049	1				20	2016	2017	2042	1
	Industrial Streetlight - James St north of the south end	Industrial	1985 25	5 0	31 \$1.63	30 \$1.630	\$0	\$1,000 0	5	5	Average	Possible	Minor	М	2	2008 10	2011	2017	2049	1				20	2016	2017	2042	. 1
	Industrial Streetlight- James St at Pump House	Industrial	1985 25	5 0	31 \$1.63	30 \$1,630	\$0	\$1,000 0	5	5	Average	Possible	Minor	M	2	2008 10	2011	2017	2049	1				20	2016	2017	2042	1
	Industrial Streetlight - Main St just north of David St	Industrial	1985 25		31 \$1,63			\$1,000 0	5	5		Possible	Minor	M	2	2008 10	2011	2017	2049	1				20	2016	2017	2042	1
				5 0	31 \$1.63			\$1,000 0	5	- 5	Average	Possible	Minor	141	2		2011	2017						20		2017		
	Industrial Streetlight - David St - Main St	Industrial	1985 25	5 0				. ,	5	5	Average			IVI		2008 10		-	2049	- 1				20	2016	2017	2042	
	Industrial Streetlight - 30th SR at west end of Devonleigh Drive	Industrial	2001 25	5 10	15 \$2,6			\$1,000 4	5	5	Average	Possible	Minor	M	2	2024 10	2027	2027	2053	11				0	2027	2027	2052	11
	Industrial Streetlight - south end of Devonleigh Drive	Industrial	2001 25		15 \$2,6			\$1,000 4	5	5	Average	Possible	Minor	M	2	2024 10	2027	2027	2053	11				0	2027	2027	2052	11
797 Roads - Street Light	Industrial Streetlight - Russel Hill north east of Peter St	Industrial	1992 25	5 1	24 \$2,2			\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
798 Roads - Street Light	Industrial Streetlight - Russel Hill north east	Industrial	1992 25	5 1	24 \$2,2	16 \$2,127	\$89	\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
799 Roads - Street Light	Industrial Streetlight Russel Hill East	Industrial	1992 25	5 1	24 \$2,2			\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
800 Roads - Street Light	Industrial Streetlight - Russel Hill East	Industrial	1992 25	5 1	24 \$2,2	16 \$2,127	\$89	\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
801 Roads - Street Light	Industrial Streetlight - Russel Hill East	Industrial	1992 25	5 1	24 \$2,2	16 \$2,127	\$89	\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
	Industrial Streetlight - Russel Hill south east of Peter St	Industrial	1992 25	5 1	24 \$2,2	16 \$2,127	\$89	\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
	Industrial Streetlight - Peter St north of St. John St	Industrial	1992 25	5 1	24 \$2,2			\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
	Industrial Streetlight - Peter St between St. John and Russel Hill	Industrial	1992 25	5 1	24 \$2,2			\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
	Industrial Streetlight - Peter St south of Russel Hill	Industrial	1992 25	5 1	24 \$2,2			\$1,000 0	5	5	Average	Possible	Minor	М	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
	Industrial Streetlight - Peter St south of Station	Industrial	1992 25	5 1	24 \$2,2			\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
	Industrial Streetlight - Russel Hill west of Peter St	Industrial	1992 25		24 \$2,2			\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
		Industrial	1992 25		24 \$2,2		000	\$1,000 0			Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
	Industrial Streetlight - Russel Hill between Peter and St. John	Industrial	1992 25	_	24 \$2,2				5	- 5		Possible	Minor	M		2015 10	2018	2018	2044	2				20	2023	2023	2048	
	Industrial Streetlight - Russel Hill east of St. John			_					5	5	Average			IVI	2													
	Industrial Streetlight - St. John - Russel Hill	Industrial	1992 25		24 \$2,2			\$1,000 0	5	5	Average	Possible	Minor	M		2015 10	2018	2018	2044					20	2023	2023	2048	
	Industrial Streetlight - St. John south of Russel Hill	Industrial	1992 25		24 \$2,2			\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	
	Industrial Streetlight - St. John further south of Russel Hill	Industrial	1992 25	_	24 \$2,2			\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
	Industrial Streetlight - St. John at Production Well	Industrial	1992 25	_	24 \$2,2			\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
814 Roads - Street Light	Industrial Streetlight - St. John west of Peter	Industrial	1992 25	5 1	24 \$2,2			\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2				20	2023	2023	2048	7
	Industrial Streetlight - St. John - Peter St	Industrial	1992 25	5 1	24 \$2,2	16 \$2,127	\$89	\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2			1	20	2023	2023	2048	7
	Industrial Streetlight - Peter Court	Industrial	1992 25	5 1	24 \$2,2			\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2			1	20	2023	2023	2048	7
	Industrial Streetlight - Hughson St - Amaranth / Mono TL	Industrial	1980 25	5 0	36 \$1,12			\$1,000 0	5	5	Average	Possible	Minor	M	2	2003 10	2006	2017	2054	1				20	2011	2017	2042	1
	Industrial Streetlight - Menary Drive East end	Industrial	1989 25	5 0	27 \$2,0			\$1,000 0	5	5	Average	Possible	Minor	M	2	2012 10	2015	2017	2045	1				20	2020	2020	2045	4
	Industrial Streetlight - Menary Drive West end	Industrial	1989 25	5 0	27 \$2,0			\$1,000 0	5	5	Average	Possible	Minor	М	2	2012 10	2015	2017	2045	1				20	2020	2020	2045	4
	Industrial Streetlight - South end of Municipal Office Parking lot	Industrial	1991 25	5 0	25 \$2,19			\$1,000 0	5	5	Average	Possible	Minor	M	2	2014 10	2017	2017	2043	1				20	2022	2022	2047	6
	Industrial Streetlight - East end of Municipal Office Parking lot	Industrial	1991 25		25 \$2,15			\$1,000 0	5	5	Average	Possible	Minor	M	2	2014 10	2017	2017	2043	1			1	20	2022	2022	2047	6
	Industrial Streetlight - south end of Municipal Office Driveway	Industrial	1991 25		25 \$2,19			\$1,000 0	, , ,	- F		Possible	Minor	M	2	2014 10	2017	2017	2043	4	+	†	+	20	2022	2022	2047	6
		Industrial		E 4	24 \$1.43			\$1,000 0	5	J	Average			NA									1	20				7
	t Industrial Streetlight - 4 ST JOHN ST		2416 1992 25	.5 1				. ,	5	5	Average	Possible	Minor	IVI		2015 10	2018	2018	2044			1	1	20	2023	2023	2048	7
	t Industrial Streetlight - 8 ST JOHN ST	Industrial	2416 1992 25		24 \$1,43			\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2			1	20	2023	2023	2048	
	t Industrial Streetlight - 23 RUSSELL HILL RD	Industrial	2419 1992 25		24 \$1,43			\$1,000 0	5	5	Average	Possible	Minor	M	2	2015 10	2018	2018	2044	2		1	1	20	2023	2023	2048	- /
	Industrial Streetlight - 5 CRAGO RD	Industrial	2395 1980 25	5 0	36 \$25			\$1,000 0	5	5	Average	Possible	Minor	M	2	2003 10	2006	2017	2054	1				20	2011	2017	2042	1
	t Industrial Streetlight - 394017 COUNTY ROAD 12	Industrial	1960 25	5 0	56 \$8	80 \$80	\$0	\$1,000 0	5	5	Average	Possible	Minor	M	2	1983 10	1986	2017	2074	1				20	1991	2017	2042	1
	t Industrial Streetlight - 394009 COUNTY ROAD 12	Industrial	1960 25	5 0	56 \$8	80 \$80	\$0	\$1,000 0	5	5	Average	Possible	Minor	M	2	1983 10	1986	2017	2074	1			1	20	1991	2017	2042	1
	t Industrial Streetlight - 285003 COUNTY ROAD 10	Industrial	1960 25	5 0	56 \$8	80 \$80	\$0	\$1,000 0	5	5	Average	Possible	Minor	M	2	1983 10	1986	2017	2074	1			1	20	1991	2017	2042	1
	t Industrial Streetlight - 393602 County Rd 12	Industrial	1960 25		56 \$8	80 \$80		\$1,000 0	5	5	Average	Possible	Minor	M	2	1983 10	1986	2017	2074	1				20	1991	2017	2042	1
	t Industrial Streetlight - 393593 COUNTY ROAD 12	Industrial	1960 25			80 \$80		\$1,000 0	5	5	Average	Possible	Minor	M	2	1983 10	1986	2017	2074	1				20	1991	2017	2042	1
	Industrial Streetlight - 393589 COUNTY ROAD 12	Industrial	1960 25		56 \$8			\$1,000 0	5	5	Average	Possible	Minor	M	2	1983 10	1986	2017	2074	1				20	1991	2017	2042	1
	Industrial Streetlight - 284405 COUNTY ROAD 10	Industrial	1960 25		56 \$8			\$1,000 0	5	5	Average	Possible	Minor	M	2	1983 10	1986	2017	2074	1				20	1991	2017	2042	1
		Industrial			56 \$8			\$1,000 0	5	5		Possible	Minor	M	2	1983 10	1986	2017	2074	1				20	1991	2017	2042	1
	t Industrial Streetlight - 284415 COUNTY ROAD 10		1960 25						5	5	Average			M		1983 10				1		1	+			2017		1
	t Industrial Streetlight - 285017 COUNTY RD 10	Industrial	1960 25					\$1,000 0	5		Average	Possible	Minor	IVI	2		1986	2017	2074	1		-	1	20	1991	2017	2042	24
4306 Roads - Street Ligh	t Industrial Streetlight - 30TH SIDEROAD	Industrial		5 23	2 \$99			\$1,000 9		9	Very Good	Rare	Minor	Ŀ	1	2037 10	2040	2040	2066	24		1	1	U	2040	2040	2065	24
	Industrial Streetlight - MONO-AMARANTH TOWNLINE	Industrial	2475 2014 25		2 \$99			\$1,000 9		9	Very Good	Rare	Minor	-	1	2037 10	2040	2040	2066	24		1	1	0	2040	2040	2065	24
	Industrial Streetlight - COUNTRY MEADOW DR	Industrial	2009 25		7 \$90			\$1,000 7		7	Good	Unlikely	Minor	L	1	2032 10		2035	2061	19				0	2035	2035	2060	19
	t Industrial Streetlight - COUNTRY MEADOW DR	Industrial	2009 25		7 \$90			\$1,000 7		7	Good	Unlikely	Minor	L	1	2032 10	2035	2035	2061	19				0	2035	2035	2060	19
	t Industrial Streetlight - COUNTRY MEADOW DR	Industrial	2009 25	5 18	7 \$90			\$1,000 7		7	Good	Unlikely	Minor	L	1	2032 10	2035	2035	2061	19			1	0	2035	2035	2060	19
	t Industrial Streetlight - COUNTRY MEADOW DR	Industrial	2009 25	5 18	7 \$90			\$1,000 7		7	Good	Unlikely	Minor	L	1	2032 10		2035	2061	24 24 19 19 19 19 19 19			1	0	2035	2035	2060	19
	t Industrial Streetlight - COUNTRY MEADOW DR	Industrial	2009 25		7 \$90			\$1,000 7		7	Good	Unlikely	Minor	L	1	2032 10	2035	2035	2061	19			1	0	2035	2035	2060	19
	t Industrial Streetlight - COUNTRY MEADOW DR	Industrial	2009 25		7 \$90			\$1,000 7		7	Good	Unlikely	Minor	L	1	2032 10		2035	2061	19				0	2035	2035	2060	19
4314 Roads - Street Ligh	t Industrial Streetlight - COUNTRY MEADOW DR	Industrial	2009 25	5 18	7 \$90			\$1,000 7		7	Good	Unlikely	Minor		1	2032 10	2035	2035	2061	10				0	2035	2035	2060	19
	t Industrial Streetlight - COUNTRY MEADOW DR	Industrial	2009 25		7 \$90			\$1,000 7		7	Good	Unlikely	Minor	T.	1	2032 10		2035	2061	10		1	1	,	2035	2035	2060	19
		Industrial	2304 1980 25		36 \$25			\$1,000 7	5	5		Possible	Minor	M		2003 10		2017	2054	19				20	2011	2017	2042	1
4370 Roads Street Light	t Industrial Streetlight - 6 SYLVANWOOD RD	Industrial					\$3,199	\$3,500 9	J		Average Very Good		Minor	191	1	2003 10		2040	2066	24		1	1	0	2011	2040	2042	24
Noaus - Street Ligh	t 4 Way Flashing Street Light - MONO-AMARANTH TOWNLINE	muustiidi	3200 2014 25	رک رد.	ے \$3,4	,,, \$2/8	φ3,199	φυ,υυ0 9	1	3	Very Good	ridle	IVIIIIOI		- 1	203/ 10	2040	2040	2000	24		1	1	U	2040	2040	2000	24

Amaranth

Current Leveles of Service Expected Levels of Service

																				Replacer	ment/Improveme	ent Year Based	on Current Levels S	Service				Replacemen	nt/Improvement	Year Based or	Expected Level	s Service	
Fixed Asset #	Subtype	Asset Name	Length (m)	Street ID	Install Us Year L	eful Remaini fe Useful L	ng ife Age	Historic Cost	2015 Accumulated Amortization	2015 Net Book Value	Replacement Cost	Condition Based On Useful Life	Assessed Condition	Condition Used for Analysis	Asset Condition (As per Priority	Probability of Failure (Based on Condition or	Consequence of Failure	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimmal	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life	Rehabiliatio Year	Rehabiliation Cost (2016)	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over	Revised evels Service Replacement Year	Year Replacement Applying Risk Score - or	Subsequent Replacement Year	Revised Remaining Useful Life
			assume 1.5 m width	1		19	31	\$ 16,077	\$ 9,968 \$	6,109	\$ 70,000			6.0					2								\$ -						
		Sidewalk - James St.	300	0	1985	50 19	31	\$9,646	\$5,981	\$3,665	\$42,000	4	6	6	Good	Unlikely	Moderate	M	2	2030	10	2035	2035	2085	1:	9			5	2038	2038	2088	22
		Sidewalk Evans Ave	50	0	1985	50 19	31	\$1,608	\$997	\$611	\$7,000	4	6	6	Good	Unlikely	Moderate	M	2	2030	10	2035	2035	2085	1	9			5	2038	2038	2088	22
		Sidewalk Henry St.	150	0	1985	50 19	31	\$4,823	\$2,990	\$1,833	\$21,000	4	6	6	Good	Unlikely	Moderate	M	2	2030	10	2035	2035	2085	1	9			5	2038	2038	2088	22

Anaración
Rosal- Signi Inventory
Rosal- Signi Protectory
Replacement/Improvement Year Based on Expected Levels forcing
Replacement/Improvement Year Based on Expected Leve

Roads - Sign Inventor	Asset Name	Asset Type	Install Useful Year Life	Remaining Useful Life	Age Historic Coss Accumulated Amortization System System Space Cost System Cost	Condition Based On Useful Life	Staff Condition Asset Condition Assessed Used for (As per Priority Condition Analysis Rating)	Probability of Failure (Based on Condition or Expected	Consequence of Failure	Risk of Value of F	Replacer Year Replacement due to minimmal	Current Lounier Revised	ear Replacement Su Applying Risk Rep	bsequent Revised blacement Remaining Year Useful Life	Rehabiliation Rehabiliation Year Cost (2016)	ed Life Levels of Service of Life Service of Life Levels of Life Service of Life Levels of Life	Revised Levels Service Replacement	s of Service in Expected Levels Service Year Replacement Applying Risk Score - or Year	ent Revised nent Remaining Useful Life
4139 Roads - Sign 4137 Roads - Sign	50 Km Maximum Speed - 10th Line - just north of 50 Km Maximum Speed - 2nd Line - north of Cou 50 Km Maximum Speed - 2nd Line North Bound I	Maximum Speed Maximum Speed Maximum Speed	2014 15 2014 15 2014 15	3 13 13 13	12 \$180,176 \$153,574 \$26,562 \$214,927 2 \$132 \$56 \$106 \$132	9 9	5.4 9 Very Good 9 Very Good 9 Very Good	Rare Rare	Major Major Major	M	2 2028 2 2028 2 2028 2 2028	10 2030	2030 2030 2030	2046 1- 2046 1-	\$0 4 4 4	Current	2030 2030 2030 2030	2030 2045 2030 2045 2030 2045 2030 2045	14
4133 Roads - Sign 4130 Roads - Sign 4132 Roads - Sign 4131 Roads - Sign	50 Km Maximum Speed - 2nd Line North Bound L 50 Km Maximum Speed - 2nd Line South Bound L 50 Km Maximum Speed - 2nd Line South Bound L 50 Km Maximum Speed - 2nd Line South Bound L 50 Km Maximum Speed - 2nd Line South Bound L	Maximum Speed Maximum Speed Maximum Speed Maximum Speed	2014 15 2014 15 2014 15 2014 15	13 13 13 13	2 \$132 \$26 \$106 \$132 2 \$132 \$26 \$106 \$132 2 \$132 \$26 \$106 \$132 2 \$132 \$26 \$106 \$132 2 \$132 \$26 \$106 \$132	9 9	9 Very Good 9 Very Good 9 Very Good 9 Very Good	Rare Rare Rare	Major Major Major Major	M M M	2 2028 2 2028 2 2028 2 2028	10 2030 10 2030 10 2030 10 2030	2030 2030 2030 2030	2046 1- 2046 1- 2046 1- 2046 1-	4		2030 2030 2030 2030	2030 2045 2030 2045 2030 2045 2030 2045	14 14 14
362 Roads - Sign 462 Roads - Sign 463 Roads - Sign 4243 Roads - Sign	50 Km Maximum Speed Sign - 2nd Line - North Bi 50 Km Maximum Speed Sign - 2nd Line - North of 50 Km Maximum Speed Sign - 2nd Line - North of 50 km Speed Sign - 2nd Line at Lot 27 North Boun	Maximum Speed Maximum Speed Maximum Speed Maximum Speed	2012 15 2013 15 2013 15 2015 15	11 12 12 14	4 \$212 \$85 \$127 \$250 3 \$278 \$93 \$185 \$250 3 \$278 \$93 \$185 \$250 1 \$161 \$16 \$145 \$151	7 8 8	7 Good 8 Very Good 8 Very Good 9 Very Good	Unlikely Rare Rare	Major Major Major Major	M M	2 2026 2 2027 2 2027 2 2029	10 2028 10 2029 10 2029 10 2029 10 2031	2028 2029 2029 2031	2044 1: 2045 1: 2045 1: 2047 1:	2 3 3 3		2028 2029 2029 2031	2028 2043 2029 2044 2029 2044 2031 2046	12 13 13 15
4262 Roads - Sign 4246 Roads - Sign 4247 Roads - Sign	50km Speed Sign - 2nd Line at Lot 27 South Boun 50km Speed Sign - 2nd Line North Bound at Lot 2 50km Speed Sign - 2nd Line North Bound at Lot 50km Speed Sign - 30SR East Bound just past Am 50km Speed Sign - 30SR West Bound just past 2n	Maximum Speed Maximum Speed Maximum Speed	2015 15 2015 15 2015 15 2015 15 2015 15		1 \$161 \$16 \$145 \$161 1 \$161 \$16 \$145 \$161 1 \$161 \$16 \$145 \$161	9 9 9 9	9 Very Good 9 Very Good 9 Very Good 9 Very Good 9 Very Good	Rare Rare Rare Rare	Major Major Major Major Major	M M	2 2029 2 2029 2 2029 2 2029 2 2029 2 2029	10 2031 10 2031 10 2031	2031 2031 2031 2031 2031 2031	2047 19 2047 19 2047 19	5 5 5 5 5 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7		2031 2031 2031 2031 2031 2031	2031 2046 2031 2046 2031 2046 2031 2046 2031 2046 2031 2046	15 15 15
4135 Roads - Sign 3580 Roads - Sign 4158 Roads - Sign	solom spiele sign - solsk West Bound jest plast zin OK Km Maximum Speed - Amaranth / Mono TL - I Bridge 013 Sign - 6th Line North of 15th SR South Bridge Marker - 10th Line Waldemar / Grand Rive Bridge Marker - 15 SR at Con 3	Maximum Speed	2014 15 2012 15 2014 15 2014 15	13 11 13 13	2 \$132 \$26 \$106 \$132 4 \$259 \$69 \$190 \$260 2 \$140 \$19 \$121 \$140	9 7 9	9 Very Good 7 Good 9 Very Good	Rare Unlikely Rare	Major Minor Minor Minor	M L L	2 2028 1 2026 1 2028 1 2028	10 2030 10 2028 10 2030	2030 2028 2030 2030	2046 1- 2044 1: 2046 1-	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		2030 2028 2030 2030	2030 2045 2028 2043 2030 2045 2030 2045 2030 2045	14 12 14
4240 Roads - Sign I 4240 Roads - Sign I 4241 Roads - Sign I	Bridge Marker - 7th Line lot 2 Bridge Marker - 7th Line lot 2 Bridge Marker - 7th Line lot 2	Object Marker Object Marker Object Marker Object Marker Object Marker	2015 15 2015 15 2015 15 2015 15 2014 15	14 14 14 14	1 \$161 \$16 \$145 \$161 1 \$161 \$16 \$145 \$161 1 \$161 \$16 \$145 \$161	9 9	9 Very Good 9 Very Good 9 Very Good 9 Very Good 9 Very Good	Rare	Minor Minor Minor Minor	L L	1 2029 1 2029 1 2029 1 2028	10 2031 10 2031 10 2031	2031 2031 2031 2031 2030	2047 19 2047 19 2047 19 2047 19	5 5		2031 2031 2031 2031 2030	2031 2046 2031 2046 2031 2046 2031 2046 2030 2045	15 15 15
4143 Roads - Sign 8 4152 Roads - Sign 8 4153 Roads - Sign 9	Bridge Marker - 9th Line at Lot 26 Bridge Marker - Amaranth / Grand Valley TL at Lot Bridge Marker - 20th SR just east of 7th Line Bridge Marker - 20th SR just east of 7th Line	Object Marker Object Marker Object Marker Object Marker	2014 15 2014 15 2014 15 2014 15	13 13 13 13	2 \$140 \$19 \$121 \$140 2 \$140 \$19 \$121 \$140 2 \$140 \$19 \$121 \$140 2 \$140 \$19 \$121 \$140 2 \$140 \$19 \$121 \$140	9 9	9 Very Good 9 Very Good 9 Very Good 9 Very Good	Rare Rare Rare	Minor Minor Minor Minor		1 2028 1 2028 1 2028 1 2028	10 2030 10 2030 10 2030 10 2030	2030 2030 2030 2030	2046 1- 2046 1- 2046 1- 2046 1-	4		2030 2030 2030 2030	2030 2045 2030 2045 2030 2045 2030 2045	14 14 14 14
4155 Roads - Sign 3311 Roads - Sign 3312 Roads - Sign	Bridge Marker - 20th SR just east of 7th Line Checkerboard - Bridge Sign - Amaranth / Mono T Checkerboard - Bridge Sign - Amaranth / Mono T	Checkerboards	2014 15 2014 15 2010 15 2010 15	9	2 \$140 \$19 \$121 \$140 6 \$225 \$90 \$135 \$250 6 \$225 \$90 \$135 \$250	9 9 6 6	9 Very Good 9 Very Good 6 Good 6 Good	Rare Rare Unlikely Unlikely	Minor Minor Minor Minor Minor	L L	1 2028 1 2028 1 2024 1 2024 1 2024	10 2030 10 2026 10 2026	2030 2030 2026 2026 2026	2046 1- 2042 1	4		2030 2030 2026 2026	2030 2045 2030 2045 2026 2041 2026 2041	14 10 10
3314 Roads - Sign (3315 Roads - Sign (3316 Roads - Sign (Checkerboard - Bridge Sign - Amaranth / Mono T Checkerboard - Bridge Sign - Amaranth / Mono T	Checkerboards Checkerboards Checkerboards	2010 15 2010 15 2010 15 2010 15	9	6 \$225 \$90 \$135 \$250 6 \$225 \$90 \$135 \$250 6 \$225 \$90 \$135 \$250	6	6 Good 6 Good 6 Good 6 Good	Unlikely Unlikely Unlikely Unlikely	Minor Minor Minor	L L	1 2024 1 2024 1 2024	10 2026 10 2026 10 2026	2026 2026 2026	2042 10 2042 11 2042 11			2026 2026 2026 2026	2026 2041 2026 2041 2026 2041 2026 2041	10 10 10
4115 Roads - Sign (125 Roads - Sign (3291 Roads - Sign (Checkerboard - Bridge Sign - Amaranth / Mono T Checkerboard - Bridge Sign - Amaranth / Mono T Curve Ahead - 7th Line South of County Rd 10 Dead End - 9th Line South of 20th SR Deer Crossing - 2nd Line North Bound	Checkerboards	2010 15 2010 15 2013 14 2010 15 2010 15	11 9	6 \$225 \$90 \$135 \$250 6 \$225 \$90 \$135 \$250 3 \$83 \$18 \$65 \$256 6 \$292 \$117 \$175 \$250 6 \$225 \$90 \$135 \$250	6 6 8 6	6 Good 6 Good 8 Very Good 6 Good 6 Good	Unlikely Unlikely Rare Unlikely Unlikely	Minor Minor Minor Minor Minor	L	1 2024 1 2024 1 2026 1 2024 1 2024	10 2026 10 2027 10 2026	2026 2026 2027 2026 2026	2041 1 2042 1	5		2026 2026 2027 2026 2026	2026 2041 2026 2041 2027 2041 2026 2041 2026 2041	10 11 10
3304 Roads - Sign 36 Roads - Sign 48 Roads - Sign 49 Roads - Sign	Deer Crossing - 2nd Line South Bound	Deer Crossing Other Other Other	2010 15 2002 15 2002 15 2002 15	9 1	6 \$225 \$90 \$135 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	6 1 1	6 Good 5 5 Average 5 5 Average 5 5 Average 5 5 Average	Unlikely Possible Possible Possible	Minor Minor Minor Minor	М	1 2024 2 2016 2 2016 2 2016	10 2026 10 2018 10 2018	2026 2018 2018 2018	2042 11 2034 :	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2026 2018 2018 2018 2018	2026 2041 2018 2033 2018 2033 2018 2033	10 2 2
57 Roads - Sign 59 Roads - Sign 76 Roads - Sign 77 Roads - Sign	Directional Sign Directional Sign Directional Sign Directional Sign Directional Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	- 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
80 Roads - Sign 86 Roads - Sign 102 Roads - Sign 126 Roads - Sign	Directional Sign Directional Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 25 \$250 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
130 Roads - Sign 140 Roads - Sign 163 Roads - Sign 167 Roads - Sign	Directional Sign Directional Sign Directional Sign Directional Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M	2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
169 Roads - Sign 172 Roads - Sign 181 Roads - Sign 184 Roads - Sign	Directional Sign Directional Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
214 Roads - Sign I 218 Roads - Sign I	Directional Sign Directional Sign Directional Sign Directional Sign Directional Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
221 Roads - Sign 228 Roads - Sign 235 Roads - Sign 238 Roads - Sign 248 Roads - Sign	Directional Sign Directional Sign Directional Sign Directional Sign Directional Sign	Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016 2 2016	10 2018 10 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
259 Roads - Sign 269 Roads - Sign 278 Roads - Sign 278 Roads - Sign 280 Roads - Sign	Directional Sign Directional Sign Directional Sign Directional Sign	Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1	5 5 Average 5 5 5 Average 5 5 5 Average 5 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018 2018	2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
285 Roads - Sign 289 Roads - Sign 293 Roads - Sign 296 Roads - Sign	Directional Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 2018 10 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
301 Roads - Sign 306 Roads - Sign 312 Roads - Sign 317 Roads - Sign	Directional Sign Directional Sign Directional Sign Directional Sign	Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1 1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
321 Roads - Sign 330 Roads - Sign 335 Roads - Sign 338 Roads - Sign	Directional Sign Directional Sign Directional Sign Directional Sign	Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
347 Roads - Sign 370 Roads - Sign 373 Roads - Sign 377 Roads - Sign	Directional Sign Directional Sign Directional Sign Directional Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
383 Roads - Sign 387 Roads - Sign 391 Roads - Sign 427 Roads - Sign	Directional Sign Directional Sign Directional Sign Directional Sign	Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
460 Roads - Sign 471 Roads - Sign 472 Roads - Sign 475 Roads - Sign	Directional Sign Directional Sign Directional Sign Directional Sign	Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
479 Roads - Sign 484 Roads - Sign 486 Roads - Sign 490 Roads - Sign 491 Roads - Sign	Directional Sign	Other Other Other Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	1 1 1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033 2018 2033	2 2
491 Roads - Sign 495 Roads - Sign 501 Roads - Sign 502 Roads - Sign 504 Roads - Sign	Directional Sign Directional Sign Directional Sign Directional Sign Directional Sign	Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	1 1 1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 5 Average 5 5 5 Average 5 5 5 Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
504 Roads - Sign 505 Roads - Sign 507 Roads - Sign 508 Roads - Sign 510 Roads - Sign	Directional Sign Directional Sign Directional Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033	2 2 2
511 Roads - Sign 514 Roads - Sign 515 Roads - Sign 521 Roads - Sign	Directional Sign Directional Sign Directional Sign Directional Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
525 Roads - Sign 526 Roads - Sign 530 Roads - Sign 541 Roads - Sign	Directional Sign Directional Sign Directional Sign Directional Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	- 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1	5 5 Average 5 5 Average 5 5 Average 5 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
542 Roads - Sign 550 Roads - Sign 557 Roads - Sign 559 Roads - Sign	Directional Sign Directional Sign Directional Sign Directional Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
566 Roads - Sign 568 Roads - Sign 571 Roads - Sign 578 Roads - Sign 584 Roads - Sign	Directional Sign Directional Sign Directional Sign Directional Sign Directional Sign	Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	1 1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
591 Roads - Sign 595 Roads - Sign 599 Roads - Sign 602 Roads - Sign	Directional Sign Directional Sign Directional Sign	Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1	5 5 Average 5 5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018 2018	2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
605 Roads - Sign 609 Roads - Sign 616 Roads - Sign 617 Roads - Sign	Directional Sign Directional Sign Directional Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M	2 2016 2 2016 2 2016	10 2018 10 2018	2018 2018 2018 2018	2034 2034	2		2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
624 Roads - Sign 631 Roads - Sign 636 Roads - Sign 646 Roads - Sign	Directional Sign Directional Sign Directional Sign Directional Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
676 Roads - Sign 706 Roads - Sign 708 Roads - Sign 710 Roads - S	Directional Sign Directional Sign Directional Sign Directional Sign Directional Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
714 Roads - Sign 717 Roads - Sign 721 Roads - Sign 721 Roads - Sign 722 Roads - Sign 724 Roads - Sign	Directional Sign Directional Sign Directional Sign Directional Sign Directional Sign	Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 2018 10 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
727 Roads - Sign 731 Roads - Sign 4159 Roads - Sign	Directional Sign Directional Sign Hidden Entrance - 2nd Line at Lot 29	Other Other Hidden Entrance Hidden Entrance	2002 15 2002 15 2002 15 2014 14 2014 14	- 1	14 3223 3208 310 3250 14 3223 3208 315 3250 14 3223 3208 315 3250 2 3140 319 3121 5140 2 5140 519 5121 5140	1 1 9 9	5 5 Average 5 5 Average 5 5 Average 9 Very Good 9 Very Good	Possible Possible Possible Rare Rare	Minor Minor Minor Major Major	M M	2 2016 2 2016 2 2027	10 2018 10 2018 10 2028	2018 2018 2018 2028 2028	2034 2034 2042 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2028 2028	2018 2033 2018 2033 2018 2033 2028 2042 2028 2042	2 2 12
4157 Roads - Sign	Hidden Entrance - 9th Line north bound Lot 2 Hidden Intersection - 5th SR east of 9th Line Information Sign	Hidden Entrance Hidden Intersection Other	2014 14 2010 15 2002 15 2002 15	12 9 1	2 \$140 \$19 \$121 \$175 \$250 \$14 \$223 \$208 \$15 \$250 \$14 \$223 \$208 \$15 \$250 \$15 \$250 \$14 \$223 \$208 \$15 \$250 \$15 \$25	9 6 1	9 Very Good 6 Good 5 5 Average 5 Average	Rare Unlikely Possible Possible	Major Major Minor Minor	M M M	2 2027 2 2027 2 2024 2 2016 2 2016	10 2026 10 2018 10 2018	2028 2026 2018 2018	2042 10 2034 :	2		2028 2026 2018 2018	2028 2042 2026 2041 2018 2033 2018 2033	12 10 2
40 Roads - Sign 41 Roads - Sign 42 Roads - Sign 43 Roads - Sign	nformation Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016	10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
44 Roads - Sign 45 Roads - Sign 51 Roads - Sign 52 Roads - Sign	nformation Sign nformation Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
53 Roads - Sign 54 Roads - Sign 61 Roads - Sign 62 Roads - Sign	nformation Sign nformation Sign nformation Sign nformation Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
63 Roads - Sign 64 Roads - Sign 65 Roads - Sign 66 Roads - Sign	nformation Sign nformation Sign nformation Sign nformation Sign	Other Other Other Other	2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018	2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
67 Roads - Sign 68 Roads - Sign 69 Roads - Sign 70 Roads - Sign		Other Other Other Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	- 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 25 \$250 \$15 \$250 \$250	1 1	5 5 Average 5 5 Average 5 5 Average 5 5 5 Average 5 5 5 Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
71 Roads - Sign 72 Roads - Sign 73 Roads - Sign 81 Roads - Sign 82 Roads - Sign	nformation Sign nformation Sign nformation Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1	5 5 Average 5 5 Average 5 5 5 Average 5 5 5 Average 5 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 2018 10 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033 2018 2033	2
83 Roads - Sign 84 Roads - Sign 88 Roads - Sign 89 Roads - Sign	nformation Sign	Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1	5 5 Average 5 5 5 Average 5 5 5 Average 5 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M	2 2016 2 2016 2 2016 2 2016 2 2016	10 2018 10 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
90 Roads - Sign 91 Roads - Sign 95 Roads - Sign 96 Roads - Sign	nformation Sign nformation Sign nformation Sign nformation Sign	Other Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
97 Roads - Sign 98 Roads - Sign 106 Roads - Sign 107 Roads - Sign	nformation Sign nformation Sign nformation Sign nformation Sign	Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
108 Roads - Sign 109 Roads - Sign 110 Roads - Sign 111 Roads - Sign	nformation Sign nformation Sign nformation Sign nformation Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
112 Roads - Sign 113 Roads - Sign 114 Roads - Sign 115 Roads - Sign 116 Roads - Sign	nformation Sign nformation Sign nformation Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	- 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2
116 Roads - Sign 117 Roads - Sign 118 Roads - Sign 131 Roads - Sign 132 Roads - Sign	nformation Sign nformation Sign nformation Sign nformation Sign	Other Other Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 5 Average 5 5 5 Average 5 5 5 Average 5 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018	2018 2033 2018 2033 2018 2033	2 2 2
132 Roads - Sign 133 Roads - Sign 134 Roads - Sign 135 Roads - Sign 136 Roads - Sign	nformation Sign nformation Sign	Other Other Other Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	1 1 1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1 1	5 5 Average 5 5 Average 5 5 5 Average 5 5 5 Average 5 5 5 Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
137 Roads - Sign 138 Roads - Sign 145 Roads - Sign 149 Roads - Sign	nformation Sign nformation Sign	Other Other Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
150 Roads - Sign 151 Roads - Sign 152 Roads - Sign 153 Roads - Sign	nformation Sign Information Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	- 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 5 Average 5 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M	2 2016 2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018 2018	2034	2		2018 2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
154 Roads - Sign 156 Roads - Sign 157 Roads - Sign 158 Roads - Sign	nformation Sign nformation Sign nformation Sign nformation Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
159 Roads - Sign 160 Roads - Sign 173 Roads - Sign 174 Roads - Sign	nformation Sign nformation Sign nformation Sign nformation Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1 1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018 2018 2018	2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
175 Roads - Sign 176 Roads - Sign 177 Roads - Sign 178 Roads - Sign	nformation Sign nformation Sign nformation Sign nformation Sign	Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016	10 2018 10 2018	2018 2018 2018	2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
179 Roads - Sign 195 Roads - Sign 196 Roads - Sign 197 Roads - Sign	nformation Sign nformation Sign nformation Sign nformation Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
201 Roads - Sign 202 Roads - Sign 203 Roads - Sign 204 Roads - Sign 205 Roads - Sign	nformation Sign nformation Sign nformation Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$226 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 5 Average 5 5 5 Average 5 5 5 Average 5 5 5 Average	Possible Possible Possible Possible Possible	Minor	M M M	2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018 2018 2018	2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018	2018 2033 2018 2033 2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
209 Roads - Sign 216 Roads - Sign 223 Roads - Sign	nformation Sign nformation Sign nformation Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible Possible	Minor Minor Minor	M M M	2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018	2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018	2018 2033 2018 2033 2018 2033	2 2 2
224 Roads - Sign 225 Roads - Sign 226 Roads - Sign 230 Roads - Sign	nformation Sign information Sign information Sign information Sign information Sign information Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	- 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible	Minor Minor Minor Minor	M	2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018 2018	2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018		2 2 2
231 Roads - Sign 232 Roads - Sign 233 Roads - Sign 241 Roads - Sign 242 Roads - Sign	nformation Sign nformation Sign nformation Sign	Other Other Other Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	- 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1 1	5 5 Average 5 5 5 Average 5 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 2018 10 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
243 Roads - Sign 244 Roads - Sign 245 Roads - Sign 246 Roads - Sign	nformation Sign nformation Sign nformation Sign nformation Sign	Other Other Other Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 5 Average 5 5 5 Average 5 5 5 Average 5 5 Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2016 2 2016	10 2018 10 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
246 Roads - Sign 250 Roads - Sign 252 Roads - Sign 253 Roads - Sign 261 Roads - Sign	nformation Sign nformation Sign nformation Sign	Other Other Other Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 5 Average 5 5 5 Average 5 5 5 Average 5 5 Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018 2018	2034 2034	2		2018 2018 2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033 2018 2033	2 2 2
262 Roads - Sign 263 Roads - Sign 264 Roads - Sign	nformation Sign nformation Sign nformation Sign	Other Other Other Other Other Other	2002 15 2002 15 2002 15	1 1 1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1 1 1	5 5 Average 5 5 Average 5 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor	M M	2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018	2018 2033 2018 2033	2 2 2
273 Roads - Sign 274 Roads - Sign 275 Roads - Sign 276 Roads - Sign 320 Roads - Sign	nformation Sign nformation Sign nformation Sign	Other Other Other Other Other Other	2002 15 2002 15 2002 15 2002 15 2002 15 2002 15	1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 5 Average 5 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M	2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
326 Roads - Sign 327 Roads - Sign 328 Roads - Sign 329 Roads - Sign	nformation Sign nformation Sign nformation Sign nformation Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034 2034	2		2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
331 Roads - Sign 332 Roads - Sign 333 Roads - Sign	nformation Sign nformation Sign nformation Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 5 Average 5 5 5 Average 5 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M	2 2016 2 2016 2 2016	10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
334 Roads - Sign 339 Roads - Sign 340 Roads - Sign 341 Roads - Sign 342 Roads - Sign	nformation Sign nformation Sign nformation Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018	2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
343 Roads - Sign 344 Roads - Sign 345 Roads - Sign 346 Roads - Sign	nformation Sign nformation Sign nformation Sign nformation Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018 2018	2018 2033 2018 2033 2018 2033 2018 2033	2 2 2 2
350 Roads - Sign 351 Roads - Sign 352 Roads - Sign 353 Roads - Sign	nformation Sign nformation Sign nformation Sign nformation Sign	Other Other Other Other	2002 15 2002 15 2002 15 2002 15	1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1 1 1	5 5 Average 5 5 Average 5 5 Average 5 5 Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 2018 10 2018 10 2018 10 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2018 2018 2018	2018 2033 2018 2033 2018 2033	2 2 2
368 Roads - Sign 378 Roads - Sign	murmation Sign nformation Sign	Other Other	2002 15 2002 15	1 1	14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250 14 \$223 \$208 \$15 \$250	1	5 5 Average 5 5 Average	Possible Possible	Minor	M	2 2016 2 2016	10 2018 10 2018	2018 2018	2034 2034	2		2018 2018	2018 2033 2018 2033 2018 2033	2 2

Fixed Asset Subhype # 379 Roads - Sign Information Sign 379 Roads - Sign Information Sign	Asset Type Other	Install Us Year L	eful Remaining Useful Life Age	\$22	2015 Accumulated Amortization System 3 \$208	2015 Net Book Value System	Replacement Condition Base On Useful Life \$250 1 \$250 1	Staff Assessed Condition Used for Analysis 5 5 5	Asset Condition (As per Priority Rating) Average Average	Probability of Failure (Based on Condition or Expected Condition) Possible Possible	Consequence of Failure	Risk of Failure	Numerical alue of Risk of Failure ma	year placement due to of Service % intenance coefficies 2016 1 1	Revised Levels Service Replacement Year 0 2018 0 2018	Year Replacement Applying Risk Score Year 2018 218 21	nt Revised Remaining Useful Life	Rehabiliation Year Rehabiliation Cost (2016)	n Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current	Revised Replacement Year Staff Or 2018 2018 2018	ement Subseques Risk Replacer Year verride	3 2
381 Roads - Sign Information Sign 390 Roads - Sign Information Sign 393 Roads - Sign Information Sign 394 Roads - Sign Information Sign	Other Other Other	2002 2002	15 1 14 15 1 14 15 1 14 15 1 14	\$22 \$22 \$22 \$22	23 \$208 23 \$208 23 \$208 23 \$208	\$15 \$15	\$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21	034 2				2018 201 2018 201 2018 201 2018 201	8 2033 8 2033 8 2033	3 2 3 2 3 2 3 2
395 Roads - Sign Information Sign 396 Roads - Sign Information Sign 398 Roads - Sign Information Sign	Other Other Other Other	2002 2002 2002 2002	15 1 14 15 1 14 15 1 14 15 1 14	\$22 \$22	23 \$208 23 \$208 23 \$208 23 \$208	\$15 \$15 \$15 \$15 \$15	\$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21	034 2 034 2 034 2 034 2				2018 201 2018 201 2018 201 2018 201	8 2033 8 2033 8 2033	3 2 3 2 3 2 3 2
417 Roads - Sign Information Sign 418 Roads - Sign Information Sign 419 Roads - Sign Information Sign	Other Other Other Other	2002 2002 2002 2002	15 1 14	\$22 \$22	23 \$206 23 \$206 23 \$206 23 \$206 23 \$206	\$15 \$15	\$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21	034 2				2018 201 2018 201 2018 201	18 2033	3 2 3
480 Roads - Sign Information Sign 488 Roads - Sign Information Sign 518 Roads - Sign Information Sign 522 Roads - Sign Information Sign	Other Other Other Other	2002 2002 2002 2002	15 1 14 15 1 14 15 1 14	\$22 \$22 \$22	23 \$208 23 \$208 23 \$208 23 \$208 23 \$208	\$15 \$15	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21 2018 21 2018 21	034 2 034 2 034 2 034 2				2018 201 2018 201 2018 201 2018 201	8 2033 8 2033 8 2033	3 2 3 2 3 2
532 Roads - Sign Information Sign 534 Roads - Sign Information Sign 539 Roads - Sign Information Sign 544 Roads - Sign Information Sign	Other Other Other Other	2002 2002 2002 2002	15 1 14 15 1 14 15 1 14	\$22 \$22 \$22	23 \$208 23 \$208 23 \$208 23 \$208 23 \$208	\$15 \$15	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor	M M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21 2018 21	034 2 034 2				2018 201	18 2033 18 2033 18 2033	3 2 3 2 3 2
545 Roads - Sign Information Sign	Other Other Other	2002 2002 2002 2002	15 1 14 15 1 14	\$22 \$22 \$22	23 \$208 23 \$208 23 \$208	\$15 \$15	\$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor Minor	M M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018	2018 21 2018 21 2018 21					2018 201 2018 201 2018 201 2018 201	18 2033 18 2033 18 2033	3 2 3 2 3 2 3 2
553 Roads - Sign Information Sign 554 Roads - Sign Information Sign 561 Roads - Sign Information Sign	Other Other Other Other	2002	15 1 14 15 1 14	\$22 \$22	13 \$208 13 \$208 13 \$208	\$15 \$15 \$15	\$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21	034 2 034 2				2018 201 2018 201	18 2033 18 2033 18 2033	3 2 3 2 3 2
563 Roads - Sign Information Sign 564 Roads - Sign Information Sign 573 Roads - Sign Information Sign	Other Other Other Other	2002 2002 2002 2002	15 1 14 15 1 14	\$22 \$22 \$22	23 \$208 23 \$208 23 \$208	\$15 \$15 \$15	\$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21	034 2 034 2				2018 201 2018 201 2018 201		3 2 3 2 3 2
576 Roads - Sign Information Sign 612 Roads - Sign Information Sign 615 Roads - Sign Information Sign	Other Other Other	2002 2002 2002 2002	15 1 14 15 1 14	\$22 \$22 \$22	23 \$208 23 \$208 23 \$208	\$15 \$15 \$15	\$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21	034 2 034 2				2018 201 2018 201 2018 201	18 2033	3 2 3 2 3 2
633 Roads - Sign Information Sign	Other Other Other	2002 2002 2002 2002	15 1 14	\$22 \$22	23 \$208 23 \$208 23 \$208 23 \$208 23 \$208	\$15 \$15 \$15	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Average Average Average Average Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor Minor	M	2 2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21 2018 22 2018 21 2018 21 2018 21	034 2				2018 201 2018 201 2018 201 2018 201 2018 201	8 2033 18 2033 18 2033	3 2 3 2 3 2
637 Roads - Sign Information Sign 653 Roads - Sign Information Sign	Other Other Other	2002 2002 2002 2002	15 1 14 15 1 14	\$22 \$22 \$22	23 \$208 23 \$208 23 \$208 23 \$208	\$15 \$15 \$15	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21	034 2					18 2033 18 2033 18 2033	3 2
660 Roads - Sign Information Sign 661 Roads - Sign Information Sign 662 Roads - Sign Information Sign	Other Other Other	2002 2002 2002 2002	15 1 14 15 1 14 15 1 14	\$22 \$22 \$22	23 \$208 23 \$208	\$15 \$15 \$15	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2 2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21 2018 21	034 2 034 2				2018 201 2018 201 2018 201	18 2033 18 2033	3 2
665 Roads - Sign Information Sign 666 Roads - Sign Information Sign 667 Roads - Sign Information Sign	Other Other Other	2002 2002	15 1 14 15 1 14 15 1 14	\$22 \$22 \$22	23 \$208	\$15	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor Minor Minor Minor		2 2 2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 2: 2018 2: 2018 2: 2018 2: 2018 2:	034 2 034 2 034 2				2018 201	8 2033 18 2033 18 2033	3 2 3 2 3 2
671 Roads - Sign Information Sign 672 Roads - Sign Information Sign 673 Roads - Sign Information Sign	Other Other Other Other	2002	15 1 14 15 1 14 15 1 14 15 1 14	\$22 \$22 \$22	23 \$208 23 \$208	\$ \$15 \$ \$15	\$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21	034 2				2018 201 2018 201	18 2033 18 2033 18 2033	3 2 3 2 3 2
675 Roads - Sign Information Sign 679 Roads - Sign Information Sign 712 Roads - Sign Information Sign	Other Other Other Other	2002 2002 2002 2002	15 1 14 15 1 14 15 1 14 15 1 14	\$22 \$22 \$22	23 \$208 23 \$208 23 \$208	\$15 \$15	\$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21	034 2					18 2033 18 2033 18 2033	3 2 3 2 3 2
735 Roads - Sign Information Sign 736 Roads - Sign Information Sign 737 Roads - Sign Information Sign	Other Other Other Other	2002 2002 2002 2002	15 1 14 15 1 14 15 1 14 15 1 14 15 1 14	\$22 \$22	23 \$208 23 \$208 23 \$208 23 \$208 23 \$208	\$15	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M	2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21	034 2				2018 201 2018 201 2018 201 2018 201 2018 201	8 2033 18 2033 18 2033	3 2 3 2 3 2
755 Roads - Sign Information Sign 3330 Roads - Sign Maximum Load Birdge 013 - 6th Line North of 15		2002 2002 2002 2010	15 1 14	\$22 \$22 \$24	23 \$208 23 \$208 23 \$208 40 \$144 40 \$144	\$15 \$96	\$250 1 \$250 1 \$250 6	5 5 5 5 6 6	Average Average Good	Possible Possible Unlikely Unlikely	Minor Minor Minor Major Major	M	2 2 2 2	2016 1 2016 1 2016 1 2024 1	0 2018 0 2018 0 2026	2018 21 2018 21 2018 21 2018 21 2026 21	034 2				2018 201 2018 201 2026 202	18 2033 18 2033 26 2041	3 2 3 2
3295 [Boads - Sign Maximum Load Bridge 002 - 7th Line North of Co 3296 [Boads - Sign Maximum Load Bridge 012 - 7th Line North of Co 3297 [Boads - Sign Maximum Load Bridge 010 - 7th Line North of Co 3298 [Boads - Sign Maximum Load Bridge 010 - 7th Line North of Co 3298 [Boads - Sign Maximum Load Bridge 010 - 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load Bridge 011 - 15th East of 7th Line North of Co 3326 [Boads - Sign Maximum Load	Maximum Tonnes Maximum Tonnes Maximum Tonnes			\$24 \$24 \$24	10 \$144 10 \$144 10 \$144	\$96 \$96 \$96	\$250 6 \$250 6 \$250 6 \$250 6 \$250 6	6 6	Good Good Good Good	Unlikely Unlikely Unlikely Unlikely Unlikely	Major Major Major Major		2 2 2 2 2 2	2024 1 2024 1 2024 1 2024 1 2024 1	0 2026 0 2026 0 2026 0 2026 0 2026	2026 21 2026 21 2026 21 2026 21	042 10				2026 202	26 2041 26 2041 26 2041 26 2041	1 10
3326 Roads - Sign Maximum Load Bridge 011 - 15th REast of 7th I 3327 Roads - Sign Maximum Load Bridge 011 - 15th REast of 7th I 3328 Roads - Sign Maximum Load Bridge 012 - 6th Line South of 15 3328 Roads - Sign Maximum Load Bridge 012 - 6th Line South of 15 3329 Roads - Sign Maximum Load Bridge 013 - 6th Line North of 15	Maximum Tonnes Maximum Tonnes Maximum Tonnes	2010 2010 2010	15 9 6 15 9 6 15 9 6 15 9 6	\$24 \$24 \$24	0 \$144 0 \$144	\$96 \$96	\$250 6 \$250 6 \$250 6 \$250 6 \$250 6	6 6 6 6	Good Good Good Good	Unlikely Unlikely Unlikely Unlikely Unlikely	Major Major Major Major	M	2 2 2 2 2	2024 1 2024 1 2024 1 2024 1 2024 1	0 2026 0 2026 0 2026 0 2026	2026 21 2026 21 2026 21 2026 21 2026 21	042 10				2026 202 2026 202 2026 202		1 10
3323 Roads - Sign Maximum Load Bridge 015 - 7th Line North of 15 3324 Roads - Sign Maximum Load Bridge 015 - 7th Line North of 15 3324 Roads - Sign Maximum Load Bridge 015 - 7th Line North of 15 3331 Roads - Sign Maximum Load Bridge 017 - 20th SR East of 7th 1 3331 Roads - Sign Maximum Load Bridge 017 - 20th SR East of 7th 1	Maximum Tonnes Maximum Tonnes Maximum Tonnes	2010 2010 2010	15 9 6	\$24 \$24 \$24	10 \$144 10 \$144 10 \$144 10 \$144	\$96 \$96 \$96 \$96	\$250 6 \$250 6 \$250 6 \$250 6	6 6 6	Good Good Good Good	Unlikely Unlikely Unlikely Unlikely	Major Major Major Major	M	2 2 2 2 2	2024 1 2024 1 2024 1 2024 1	0 2026 0 2026 0 2026 0 2026 0 2026	2026 21 2026 21 2026 22 2026 21 2026 21	042 10 042 10 042 10				2026 202 2026 202 2026 202 2026 202	26 2041 26 2041 26 2041 26 2041	1 10 1 10 1 10 1 10
3449 Roads - Sign Maximum Speed - 2nd Line - South Bound North 3429 Roads - Sign Maximum Speed Sign - Amaranth / Mono TL Nor 3428 Roads - Sign Maximum Speed Sign - Amaranth / Mono TL Nor 3425 Roads - Sign Maximum Speed Sign - Amaranth / Mono TL Nor	Maximum Speed Maximum Speed Maximum Speed Maximum Speed	2011 2011 2011 2011 2011	15 10 5 15 10 5 15 10 5	\$9 \$9 \$9	99 \$50 99 \$50 99 \$50	\$50 \$50 \$50	\$250 7 \$250 7 \$250 7 \$250 7 \$250 7	7 7 7 7	Good Good Good	Unlikely Unlikely Unlikely Unlikely	Major Major Major Major	M M M	2 2 2 2 2	2025 1 2025 1 2025 1 2025 1	0 2027 0 2027 0 2027 0 2027	2027 21 2027 21 2027 21 2027 21 2027 21	043 11 043 11 043 11				2027 202 2027 202 2027 202 2027 202	27 2042 27 2042 27 2042 27 2042	2 11 2 11 2 11 2 11
3421 Roads - Sign Maximum Speed Sign - Amaranth / Mono TL Nor 3426 Roads - Sign Maximum Speed Sign - Amaranth / Mono TL Nor 3427 Roads - Sign Maximum Speed Sign - Amaranth / Mono TL Nor 3424 Roads - Sign Maximum Speed Sign - Amaranth / Mono TL Nor	Maximum Speed Maximum Speed Maximum Speed Maximum Speed	2011 2011 2011 2011	15 10 5 15 10 5 15 10 5 15 10 5	\$9 \$9 \$9 \$9	nd \$50 99 \$50 99 \$50 99 \$50	\$50 \$50 \$50 \$50	\$250 7 \$250 7 \$250 7 \$250 7	7 7 7 7	Good Good Good	Unlikely Unlikely Unlikely Unlikely	Major Major Major Major	M M M	2 2 2 2 2	2025 1 2025 1 2025 1 2025 1	0 2027 0 2027 0 2027 0 2027	2027 21 2027 21 2027 21 2027 21 2027 21	043 11 043 11 043 11				2027 202 2027 202 2027 202 2027 202	27 2042 27 2042 27 2042 27 2042	2 11 2 11 2 11 2 11
3423 Roads - Sign Maximum Speed Sign - Amaranth / Mono TI. Norn TI. Norn Sign - Amaranth / Mono TI. South	Maximum Speed Maximum Speed Maximum Speed	2011 2011 2011 2011 2011	15 10 5 15 10 5 15 10 5 15 10 5 15 10 5		99 \$50 99 \$50 99 \$50 99 \$50	\$50 \$50 \$50 \$50	\$250 7 \$250 7 \$250 7 \$250 7 \$250 7 \$250 7	7 7 7 7	Good Good Good Good	Unlikely Unlikely Unlikely Unlikely Unlikely Unlikely	Major Major Major Major Major	M	2 2 2 2 2 2	2025 1 2025 1 2025 1 2025 1 2025 1	0 2027 0 2027 0 2027 0 2027	2027 21 2027 21 2027 21 2027 21 2027 21	043 11				2027 202 2027 202 2027 202 2027 202 2027 202	27 2042 27 2042 27 2042	2 11 2 11 2 11
3437 Roads - Sign Maximum Speed Sign - Amaranth / Monor T. Sou 3436 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3431 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3434 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3434 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Amaranth / Monor T. Sou 3438 Roads - Sign - Maximum Speed Sign - Maximum - Sign - Sign - Maximum - Sign -	Maximum Speed Maximum Speed Maximum Speed	2011 2011 2011 2011 2011	15 10 5 15 10 5 15 10 5 15 10 5 15 10 5			\$50 \$50	\$250 7 \$250 7 \$250 7	7 7 7 7 7	Good Good Good	Unlikely Unlikely Unlikely Unlikely Unlikely Unlikely	Major Major Major Major Major	M M M	2 2 2 2 2	2025 1 2025 1 2025 1 2025 1 2025 1 2025 1	0 2027 0 2027 0 2027 0 2027 0 2027	2027 21 2027 21 2027 21 2027 21 2027 21 2027 2	043 11				2027 202 2027 202 2027 202	27 2042 27 2042 27 2042	2 11 2 11 2 11
3433 Roads - Sign Maximum Speed Sign - Amaranth / Mono TL Sou 3432 Roads - Sign Maximum Speed Sign - Amaranth / Mono TL Sou 3439 Roads - Sign Maximum Speed Sign - Amaranth / Mono TL Sou 3430 Roads - Sign Maximum Speed Sign - Amaranth / Mono TL Sou 319 Roads - Sign Maximum Speed Sign - Amaranth / Mono TL Sou 319 Roads - Sign Narow Structure - Amaranth / Mono TL north of	Maximum Speed Maximum Speed Maximum Speed	2011 2011 2011 2011 2010	15 10 5	\$9 \$9 \$9	99 \$50 99 \$50 99 \$50 99 \$50 12 \$117	\$50 \$50	\$250 7 \$250 7 \$250 7 \$250 7 \$250 7 \$250 6	7 7 7 7 6	Good Good Good Good Good	Unlikely Unlikely Unlikely Unlikely Unlikely	Major Major Major Major	M M M	2 2 2 2 2	2025 1 2025 1 2025 1 2025 1 2025 1 2024 1	0 2027 10 2027 10 2027 10 2027 10 2027	2027 21 2027 21 2027 21 2027 21 2027 22 2026 21	043 11				2027 202 2027 202 2027 202 2027 202 2026 202	27 2042 26 2041	2 11 2 11 1 10
3318 Roads - Sign Narrow Structure - Amaranth / Mono TL north of 4089 Roads - Sign No Exit - Cherry Wood 4090 Roads - Sign No Exit - Maple Wood	Narrow Structure f Narrow Structure No Exit No Exit No Exit	2010 2013 2013	15 9 6 15 9 6 15 12 3 15 12 3 15 12 3	\$29 \$8 \$8	12 \$117 13 \$17 13 \$17	\$175 \$66 \$66	\$250 6 \$250 8 \$250 8 \$250 8 \$250 8	6 8 8 8	Good Very Good Very Good Very Good	Unlikely Rare Rare	Major Minor Minor Minor	M L L	2 2 1 1	2024 1 2024 1 2027 1 2027 1 2027 1	0 2026 0 2026 0 2029 0 2029 0 2029	2026 21 2026 21 2029 21 2029 21 2029 21	042 10 045 13 045 13				2026 202 2029 202 2029 202 2029 202	2041 29 2044 29 2044 29 2044	1 10 4 13 4 13 4 13
4092 Roads - Sign No Heavy Trucks - 30th SR East of Amaranth / Min 3300 Roads - Sign No Heavy Trucks - Amaranth / Mono TL - North or 3307 Roads - Sign No Heavy Trucks - Amaranth / Mono TL - North or 625 Roads - Sign No Heavy Trucks - Amaranth / Mono TL - North or	k No Trucks No Trucks No Trucks No Trucks	2010 2010	15 9 6 15 9 6 15 9 6 15 1 14	\$24 \$24	10 \$144 10 \$144	\$96 \$96	\$250 6 \$250 6 \$250 6 \$250 1	6 6 6 5 5	Good Good Good Average	Unlikely Unlikely Unlikely Possible	Major Major Major Major	M M M	2 2 2 3	2024 1 2024 1 2024 1 2016 1	0 2026 0 2026 0 2026 0 2018	2026 21 2026 21 2026 21 2016 21	042 10 042 10				2026 202 2026 202 2026 202 2018 201	26 2041 26 2041 26 2041 16 2031	1 10 1 10 1 10 1 0
4093 Roads - Sign No Heavy Trucks - Amaranth / Mono TL - North o 3306 Roads - Sign No Heavy Trucks - Amaranth / Mono TL - South o 3308 Roads - Sign No Heavy Trucks - Amaranth / Mono TL - South o 629 Roads - Sign No Heavy Trucks - Amaranth / Mono TL - South o	No Trucks No Trucks No Trucks	2010 2010 2010 2010 2002		\$22	10 \$144 10 \$144 10 \$144 23 \$223	\$0	\$250 6 \$250 6 \$250 6 \$250 1	6 6 6 5 5	Good Good Good Average	Unlikely Unlikely Unlikely Possible		M M M	2 2 2 3	2024 1 2024 1 2024 1 2024 1	0 2026 0 2026 0 2026 0 2026 0 2018	2026 2: 2026 2: 2026 2: 2026 2: 2016 2:	031 0				2026 202	26 2041 26 2041 16 2031	1 10 1 10 1 0
4113 Roads - Sign No Truck Sign - 30th SR - County Rd 12 3501 Roads - Sign No Trucks - 2nd Line - County Rd 10 North Bound	No Trucks No Trucks No Trucks	2011	15 9 6 15 12 3 15 12 3 15 10 5	\$27 \$27 \$9	60 \$144 78 \$83 78 \$83 99 \$50	\$194 \$194 \$50	\$250 6 \$250 8 \$250 8 \$250 7	6 8 8 7	Good Very Good Very Good Good	Unlikely Rare Rare Unlikely	Major Major Major Major	M M M	2 2 2 2	2024 1 2027 1 2027 1 2027 1 2025 1	0 2026 0 2029 0 2029 0 2027	2026 21 2029 21 2029 21 2027 21	045 13 045 13 043 11				2027 202	9 2044 9 2044 7 2042	4 13 4 13 2 11
3474 Roads - Sign Dbject Marker - Bridge 3 - 8th Line North of Cour 3486 Roads - Sign Object Marker - Bridge 4 - 9th Line North of Stati	No Trucks r Object Marker i Object Marker	2011 2011	15 13 2 15 10 5 15 10 5 15 10 5 15 10 5	\$9		\$66	\$132 9 \$250 7 \$250 7 \$250 7	9 7 7 7	Very Good Good Good Good	Rare Unlikely Unlikely Unlikely	Major Major Minor Minor	M L L	2 1 1 1	2028 1 2025 1 2025 1 2025 1	0 2030 0 2027 0 2027 0 2027 0 2027	2030 21 2027 21 2027 21 2027 21	043 11 043 11				2027 200	27 2042 27 2042 27 2042	2 11 2 11 2 11
3487 Roads - Sign Deject Marker - Bridge 4 - 9th Line North of Statis 3488 Roads - Sign Deject Marker - Bridge 4 - 9th Line North of Statis 3489 Roads - Sign Deject Marker - Bridge 4 - 9th Line North of Statis 3466 Roads - Sign Deject Marker - Bridge 7 - 5th SR east of 9th Line 3467 Roads - Sign Deject Marker - Bridge 7 - 5th SR east of 9th Line	i Object Marker i Object Marker i Object Marker	2011	15 10 5 15 10 5 15 10 5 15 10 5	\$9	99 \$33 99 \$33 99 \$33 99 \$33	\$66 \$66 \$66	\$250 7 \$250 7 \$250 7 \$250 7 \$250 7	7 7 7	Good Good Good Good Good	Unlikely Unlikely Unlikely Unlikely Unlikely Unlikely	Minor Minor Minor Minor Minor	L L	1 1 1	2025 1 2025 1 2025 1 2025 1 2025 1	0 2027 0 2027 0 2027 0 2027 10 2027	2027 21 2027 21 2027 21 2027 21 2027 21 2027 2	043 11				2027 202 2027 202 2027 202 2027 202 2027 202	7 2042 7 2042	2 11
3468 Roads - Sign Dipert Marker - Bridge 7 - 5th SR east of 9th Line 3469 Roads - Sign Dipert Marker - Bridge 7 - 5th SR east of 9th Line 3462 Roads - Sign Dipert Marker - Bridge 8 - 9th Line North of 5th : 3463 Roads - Sign Dipert Marker - Bridge 8 - 9th Line North of 5th :	Dbject Marker Object Marker Object Marker	2011 2011 2011	15 10 5 15 10 5 15 10 5 15 10 5	\$9 \$9 \$9	99 \$33 99 \$33 99 \$33	\$66 \$66 \$66	\$250 7 \$250 7 \$250 7 \$250 7 \$250 7	7 7 7 7 7	Good Good Good Good	Unlikely Unlikely Unlikely Unlikely Unlikely	Minor Minor Minor Minor	L L	1 1 1	2025 1 2025 1 2025 1 2025 1	0 2027 0 2027 0 2027 0 2027	2027 21 2027 22 2027 22 2027 21 2027 21	043 11 043 11 043 11				2027 202 2027 202	27 2042 27 2042 27 2042	2 11 2 11 2 11
3464 Roads - Sign Object Marker - Bridge 8 - 9th Line North of 5th 3 3465 Roads - Sign Object Marker - Bridge 8 - 9th Line North of 5th 3 3482 Roads - Sign Object Marker - Culvert - 15th SR East of 4th Line 3483 Roads - Sign Object Marker - Culvert - 15th SR East of 4th Line	S Object Marker S Object Marker o Object Marker	2011 2011 2011	15 10 5 15 10 5 15 10 5 15 10 5	\$9 \$9 \$9	99 \$33 99 \$33 99 \$33 99 \$33	\$66 \$66 \$66 \$66	\$250 7 \$250 7 \$250 7 \$250 7 \$250 7	7 7 7 7	Good Good Good	Unlikely Unlikely Unlikely Unlikely	Minor Minor Minor	L L L	1 1 1 1	2025 1 2025 1 2025 1 2025 1	0 2027 0 2027 0 2027	2027 21 2027 21	043 11 043 11 043 11				2027 202 2027 202 2027 202	27 2042 27 2042 27 2042 27 2042	2 11 2 11 2 11 2 11
3485 Roads - Sign Object Marker - Culvert - 15th SR East of 4th Line 3479 Roads - Sign Object Marker - Culvert - 25th SR East of 9th Line 3480 Roads - Sign Object Marker - Culvert - 25th SR East of 9th Lin 3481 Roads - Sign Object Marker - Culvert - 25th SR West of 9th Lin	Object Marker	2011	15 10 5 15 10 5	\$9	99 \$33 99 \$33 99 \$33	\$66 \$66 \$66	\$250 7 \$250 7 \$250 7 \$250 7	7 7 7 7	Good Good Good	Unlikely Unlikely Unlikely Unlikely	Minor Minor Minor Minor	L L L	1 1 1	2025 1 2025 1 2025 1 2025 1	0 2027 0 2027 0 2027 0 2027	2027 21 2027 21 2027 21 2027 21	043 11 043 11				2027 202 2027 202 2027 202 2027 202	7 2042 7 2042 7 2042	2 11
3498 Roads - Sign Object Marker - Culvert - 30th SR East of 6th Line 3499 Roads - Sign Object Marker - Culvert - 30th SR East of 6th Line 3475 Roads - Sign Object Marker - Culvert - 30th SR East of 9th Line 3476 Roads - Sign Object Marker - Culvert - 30th SR East of 9th Line	e Object Marker e Object Marker e Object Marker	2011 2011 2011	15 10 5 15 10 5 15 10 5 15 10 5 15 10 5	\$9 \$9 \$9	99 \$33 99 \$33 99 \$33 99 \$33	\$66 \$66 \$66	\$250 7 \$250 7 \$250 7 \$250 7	7 7 7 7	Good Good Good Good	Unlikely Unlikely Unlikely Unlikely	Minor Minor Minor Minor Minor	L L L	1 1 1	2025 1 2025 1 2025 1 2025 1	0 2027 0 2027 0 2027 0 2027	2027 21 2027 21 2027 21 2027 21 2027 21	043 11 043 11 043 11				2027 202	27 2042 27 2042 27 2042 27 2042	2 11
3470 Roads - Sign Diject Marker - Culvert - 7th Line north of 5th 5th 3471 Roads - Sign Diject Marker - Culvert - 7th Line north of 5th 5th 3457 Roads - Sign Diject Marker - Culvert - 8th Line Concession 18 3472 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Diject Marker - Culvert - 9th Line north of Count 6th 3473 Roads - Sign Dije	Object Marker Object Marker Object Marker	2011 2011 2011	15 10 5 15 10 5 15 10 5 15 10 5	\$9 \$9 \$9	99 \$33 99 \$33 99 \$33 99 \$33	\$66 \$66 \$66	\$250 7 \$250 7 \$250 7 \$250 7 \$250 7	7 7 7 7	Good Good Good Good	Unlikely Unlikely Unlikely Unlikely Unlikely Unlikely	Minor Minor	L L	1 1 1 1	2025 1 2025 1 2025 1 2025 1 2025 1	0 2027 0 2027 0 2027 0 2027 0 2027	2027 21 2027 21 2027 21 2027 21 2027 21	043 11 043 11				2027 202 2027 202	27 2042 27 2042	2 11 2 11 2 11
	Object Marker Object Marker Object Marker	2011 2011		\$9 \$9 \$9	99 \$33 99 \$33 99 \$33 99 \$33	\$66 \$66 \$66	\$250 7 \$250 7 \$250 7 \$250 7 \$250 7	7 7 7 7	Good Good Good	Unlikely Unlikely Unlikely Unlikely	Minor	L L L	1 1 1 1	2025 1 2025 1 2025 1 2025 1	0 2027 0 2027 0 2027 0 2027	2027 21 2027 21	043 11 043 11				2027 202 2027 202 2027 202 2027 202	7 2042 7 2042 7 2042 7 2042	2 11 2 11 2 11
128 Roads - Sign Parking Sign 144 Roads - Sign Parking Sign 240 Roads - Sign Parking Sign	Object Marker Other Other Other	2002 2002 2002	15 1 14	\$22 \$22 \$22	23 \$208 23 \$208	\$15 \$15 \$15	\$250 7 \$250 1 \$250 1 \$250 1	7 5 5 5 5 5 5	Good Average Average Average	Unlikely Possible Possible Possible	Minor Minor Minor Minor	M M M	1 2 2 2	2025 1 2016 1 2016 1 2016 1	0 2027 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21	034 2 034 2				2018 201 2018 201 2018 201	27 2042 18 2033 18 2033 18 2033	3 2 3 2 3 2
4085 Roads - Sign Pavement Ends - 2nd Line North of Maples School 4088 Roads - Sign Pavement Ends - 6th Line North of Pines 4087 Roads - Sign Pavement Ends - 6th Line North of Township Offi	Pavement Ends Pavement Ends	2013	15 12 3 15 12 3 15 12 3 15 12 3	\$8 \$8	33 \$17 33 \$17 33 \$17 33 \$17	\$66 \$66	\$250 8 \$250 8 \$250 8 \$250 8	8 8 8 8	Very Good Very Good Very Good Very Good	Rare Rare Rare	Minor Minor Minor Minor	L L L	1 1 1 1	2027 1 2027 1 2027 1 2027 1	0 2029 0 2029 0 2029 0 2029 0 2018	2029 21 2029 21 2029 21 2029 21 2029 21	045 13 045 13 045 13				2029 202 2029 202 2029 202	29 2044 29 2044 29 2044 29 2044	1 13 1 13 4 13
37 Roads - Sign Regulatory Sign 46 Roads - Sign Regulatory Sign 47 Roads - Sign Regulatory Sign	Other Other Other Other	2002 2002 2002 2002	15 1 14	\$22 \$22	3 \$22 3 \$22 3 \$22 3 \$22	\$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor Minor	M M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21	034 2 034 2				2018 201 2018 201 2018 201 2018 201 2018 201	8 2033 8 2033	3 2 3 2 3 2
60 Roads - Sign Regulatory Sign 74 Roads - Sign Regulatory Sign 75 Roads - Sign Regulatory Sign	Other Other Other Other Other Other	2002 2002 2002 2002	15 1 14 15 1 14 15 1 14	\$22 \$22	3 \$223 3 \$223 3 \$223	\$0 \$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor	M M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21 2018 21	034 2 034 2				2018 201 2018 201 2018 201	18 2033 18 2033 18 2033	3 2
79 Roads - Sign Regulatory Sign 85 Roads - Sign Regulatory Sign 87 Roads - Sign Regulatory Sign	Other Other Other Other	2002 2002 2002 2002	15 1 14 15 1 14	\$22 \$22	3 \$223	\$0 \$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible		M M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018 0 2018	2018 21					2018 201 2018 201	8 2033 8 2033 8 2033 8 2033 8 2033	3 2
120 Roads - Sign Regulatory Sign	Other Other Other Other	2002	15 1 14 15 1 14	\$22 \$22	3 \$22 3 \$22	\$0 \$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21	034 2 034 2				2018 201 2018 201	18 2033 18 2033 18 2033	3 2 3 2 3 2
123 Roads - Sign Regulatory Sign 124 Roads - Sign Regulatory Sign 127 Roads - Sign Regulatory Sign	Other Other Other Other	2002	15 1 14	\$22 \$22 \$22	3 \$22 3 \$22 3 \$22	\$0 \$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21	034 2 034 2				2018 201 2018 201	18 2033 18 2033 18 2033	3 2 3 2 3 2
139 Roads - Sign Regulatory Sign 141 Roads - Sign Regulatory Sign 142 Roads - Sign Regulatory Sign	Other Other Other	2002 2002 2002 2002	15 1 14	\$22 \$22 \$22	3 \$22 3 \$22 3 \$22	\$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible		M M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21	034 2 034 2				2018 201 2018 201	18 2033 18 2033 18 2033	3 2 3 2 3 2
147 Roads - Sign Regulatory Sign 148 Roads - Sign Regulatory Sign 161 Roads - Sign Regulatory Sign	Other Other Other Other Other	2002	15 1 14 15 1 14 15 1 14	\$22 \$22 \$22	3 \$223 3 \$223 3 \$223 3 \$223 3 \$223	\$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5 5 5	Average Average Average Average Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M	2 2 2 2 2	2016 1 2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21 2018 21	034 2 034 2				2018 201 2018 201 2018 201	8 2033 18 2033 18 2033	3 2 3 2 3 2
162 Roads - Sign Regulatory Sign 164 Roads - Sign Regulatory Sign 165 Roads - Sign Regulatory Sign 166 Roads - Sign Regulatory Sign	Other Other Other Other Other	2002 2002 2002 2002 2002	15 1 14 15 1 14 15 1 14 15 1 14	\$22 \$22 \$22 \$22	23 \$222 23 \$222 23 \$222 23 \$222	\$0 \$0 \$0 \$0 \$0	\$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2 2 2 2	2016 1 2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21 2018 21	034 2 034 2 034 2				2018 201 2018 201 2018 201 2018 201	18 2033 18 2033 18 2033	3 2 3 2 3 2
168 Roads - Sign Regulatory Sign 170 Roads - Sign Regulatory Sign 171 Roads - Sign Regulatory Sign 180 Roads - Sign Regulatory Sign	Other Other Other Other Other	2002 2002 2002 2002	15 1 14 15 1 14 15 1 14	\$22 \$22 \$22	3 \$22 3 \$22	\$0 \$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M M	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21 2018 21	034 2 034 2				2018 201 2018 201 2018 201 2018 201	8 2033 8 2033 8 2033	3 2
182 Roads - Sign Regulatory Sign 183 Roads - Sign Regulatory Sign 185 Roads - Sign Regulatory Sign 186 Roads - Sign Regulatory Sign	Other Other Other Other	2002 2002 2002 2002 2002	15 1 14	\$22	3 \$22	\$0 \$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2 2 2 2 2	2016 1 2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21	034 2 034 2 034 2				2018 201 2018 201 2018 201 2018 201	18 2033 18 2033 18 2033	3 2 3 2 3 2 3 2
190 Roads - Sign Regulatory Sign	Other Other Other Other Other Other	2002 2002 2002 2002 2002	15 1 14 15 1 14 15 1 14 15 1 14 15 1 14	\$22 \$22	3 \$221 3 \$221 3 \$221 3 \$221 3 \$221	\$ \$0 \$ \$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Average Average Average Average Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor Minor	M M M	2 2 2 2 2	2016 1 2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21 2018 21	034 2				2018 201 2018 201 2018 201 2018 201 2018 201 2018 201	18 2033 18 2033 18 2033	3 2 3 2 3 2
192 Roads - Sign Regulatory Sign 193 Roads - Sign Regulatory Sign 199 Roads - Sign Regulatory Sign	Other Other Other Other Other Other	2002 2002 2002 2002 2002	15 1 14 15 1 14 15 1 14	\$22 \$22 \$22	3 \$223 3 \$223	\$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21	034 2 034 2 034 2				2018 201 2018 201 2018 201 2018 201 2018 201	18 2033 18 2033 18 2033	3 2 3 2 3 2
205 Roads - Sign Regulatory Sign	Other Other Other Other Other Other	2002 2002 2002 2002 2002	15 1 14 15 1 14 15 1 14	\$22 \$22 \$22	3 \$22 3 \$22 3 \$22 3 \$22 3 \$22	\$0	\$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M M	2 2 2 2 2	2016 1 2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21	034 2 034 2				2018 201 2018 201 2018 201 2018 201	8 2033 18 2033 18 2033	3 2 3 2 3 2
215 Roads - Sign Rogulatory Sign 217 Roads - Sign Rogulatory Sign 219 Roads - Sign Regulatory Sign 237 Roads - Sign Regulatory Sign	Other Other Other Other	2002 2002 2002 2002 2002	15 1 14 15 1 14 15 1 14 15 1 14	\$22 \$22 \$22 \$22	23 \$222 23 \$222 23 \$222 23 \$222	\$0 \$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21	034 2 034 2 034 2				2018 201 2018 201 2018 201 2018 201	8 2033 8 2033 8 2033	3 2 3 2 3 2 3 2
247 Roads - Sign Regulatory Sign 249 Roads - Sign Regulatory Sign 254 Roads - Sign Regulatory Sign 255 Roads - Sign Regulatory Sign	Other Other Other Other	2002 2002	15 1 14 15 1 14 15 1 14	\$22 \$22 \$22	3 \$22 3 \$22	\$0 \$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21 2018 22 2018 22	034 2				2018 201 2018 201 2018 201 2018 201	8 2033 8 2033 8 2033	3 2 3 2 3 2
257 Roads - Sign Regulatory Sign 258 Roads - Sign Regulatory Sign 260 Roads - Sign Regulatory Sign	Other Other Other Other	2002 2002	15 1 14 15 1 14 15 1 14 15 1 14 15 1 14	\$22	3 \$223 3 \$223 3 \$223 3 \$223	\$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2 2 2 2 2	2016 1 2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21	034 2				2018 201 2018 201 2018 201 2018 201	18 2033 18 2033 18 2033	3 2
281 Roads - Sign Regulatory Sign 287 Roads - Sign Regulatory Sign	Other Other Other Other	2002 2002 2002 2002 2002	15 1 14	\$22 \$22	3 \$223 3 \$223 3 \$223 3 \$223	\$0 \$0 \$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible Possible	Minor Minor		2 2 2 2 2 2	2016 1 2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21	034 2 034 2 034 2				2018 201 2018 201	18 2033 18 2033 18 2033	3 2 3
286 Roads - Sign Regulatory Sign 287 Roads - Sign Regulatory Sign	Other Other Other Other Other Other	2002 2002 2002 2002 2002	15 1 14 15 1 14 15 1 14 15 1 14 15 1 14	\$22 \$22 \$22	3 \$223	\$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible Possible	Minor		2 2 2 2	2016 1 2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21 2018 21	034 2 034 2				2018 201 2018 201	8 2033 8 2033 8 2033 8 2033 8 2033	3 2 3 2 3 2
290 Roads - Sign Regulatory Sign 291 Roads - Sign Regulatory Sign 292 Roads - Sign Regulatory Sign 294 Roads - Sign Regulatory Sign	Other Other Other Other Other Other	2002 2002 2002 2002 2002	15 1 14 15 1 14 15 1 14 15 1 14	\$22 \$22 \$22 \$22	3 \$22 3 \$22 3 \$22 3 \$22 3 \$22	\$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible Possible	Minor	M	2 2 2 2 2	2016 1 2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018 0 2018	2018 2: 2018 2: 2018 2: 2018 2: 2018 2: 2018 2:	034 2 034 2 034 2				2018 201 2018 201 2018 201	8 2033 8 2033 8 2033 8 2033	3 2 3 2 3 2
295 Roads - Sign Regulatory Sign 297 Roads - Sign Regulatory Sign 298 Roads - Sign Regulatory Sign 300 Roads - Sign Regulatory Sign	Other Other Other	2002 2002 2002 2002	15 1 14 15 1 14 15 1 14 15 1 14	\$22 \$22 \$22 \$22	23 \$222 23 \$222 23 \$222 23 \$222	\$0 \$0 \$0 \$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21	034 2 034 2 034 2 034 2				2018 201 2018 201 2018 201 2018 201	8 2033 8 2033 8 2033	3 2 3 2 3 2 3 2
302 Roads - Sign Regulatory Sign 303 Roads - Sign Regulatory Sign 304 Roads - Sign Regulatory Sign 305 Roads - Sign Regulatory Sign	Other Other Other Other Other Other Other	2002 2002 2002 2002 2002	15 1 14 15 1 14 15 1 14	\$22 \$22 \$22 \$22	3 \$22 3 \$22	\$0 \$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Average Average Average	Possible Possible Possible Possible Possible	Minor Minor Minor	M	2 2 2 2	2016 1 2016 1 2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21 2018 21	034 2				2018 201 2018 201 2018 201	8 2033 8 2033 8 2033 8 2033 8 2033	3 2 3 2 3 2
308 Roads - Sign Regulatory Sign 309 Roads - Sign Regulatory Sign 311 Roads - Sign Regulatory Sign	Other Other Other Other	2002 2002 2002	15 1 14 15 1 14 15 1 14	\$22 \$22 \$22 \$22	3 \$22 3 \$22 3 \$22	\$0 \$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average	Possible Possible Possible	Minor Minor Minor	M M M	2 2 2 2	2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21	034 2				2018 201 2018 201 2018 201	18 2033 18 2033 18 2033	3 2 3 2 3 2
315 Roads - Sign Regulatory Sign 316 Roads - Sign Regulatory Sign	Other Other Other Other	2002 2002 2002 2002	15 1 14 15 1 14	\$22 \$22 \$22	3 \$22	\$0 \$0	\$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible Possible	Minor Minor	M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 2i 2018 2i 2018 2i 2018 2i 2018 2i	034 2				2018 201 2018 201 2018 201	8 2033 8 2033 8 2033 8 2033	3 2
318 Roads - Sign Regulatory Sign 319 Roads - Sign Regulatory Sign 322 Roads - Sign Regulatory Sign 323 Roads - Sign Regulatory Sign	Other Other Other Other	2002 2002 2002 2002	15 1 14 15 1 14	\$22 \$22 \$22	3 \$223 3 \$223	\$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible Possible	Minor Minor	M M	2 2 2 2 2 2	2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 2i 2018 2i	034 2 034 2				2018 201 2018 201	18 2033 18 2033 18 2033 18 2033	3 2
325 Roads - Sign Regulatory Sign 336 Roads - Sign Regulatory Sign 337 Roads - Sign Regulatory Sign 348 Roads - Sign Regulatory Sign	Other Other Other Other	2002 2002 2002	15 1 14 15 1 14 15 1 14 15 1 14	\$22 \$22	3 \$22 3 \$22 3 \$22	\$0 \$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21	034 2 034 2 034 2				2018 201 2018 201	18 2033 18 2033 18 2033 18 2033	3 2
354 Roads - Sign Regulatory Sign 357 Roads - Sign Regulatory Sign 358 Roads - Sign Regulatory Sign 359 Roads - Sign Regulatory Sign 369 Roads - Sign Regulatory Sign 360 Roads - Sign Regulatory Sign	Other Other Other Other Other Other	2002	15 1 14 15 1 14 15 1 14	\$22 \$22 \$22	3 \$22 3 \$22 3 \$22 3 \$22 3 \$22	\$0 \$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible Possible	Minor Minor	M M	2 2 2 2 2	2016 1 2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21 2018 21	034 2 034 2 034 2				2018 201 2018 201 2018 201	8 2033 8 2033 8 2033 8 2033 8 2033	3 2 3 2 3 2
361 Roads - Sign Regulatory Sign 363 Roads - Sign Regulatory Sign 364 Roads - Sign Regulatory Sign 365 Roads - Sign Regulatory Sign	Other Other Other Other	2002 2002 2002 2002	15 1 14 15 1 14 15 1 14 15 1 14	\$22 \$22 \$22 \$22	3 \$223 3 \$223	\$0 \$0 \$0	\$250 1 \$250 1 \$250 1	5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor Minor Minor	M M M	2 2 2 2	2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21	034 2 034 2 034 2 034 2				2018 201 2018 201 2018 201 2018 201	18 2033 18 2033 18 2033	3 2 3 2 3 2
366 Roads - Sign Regulatory Sign 367 Roads - Sign Regulatory Sign 369 Roads - Sign Regulatory Sign 371 Roads - Sign Regulatory Sign	Other Other Other Other	2002 2002 2002 2002	15 1 14 15 1 14 15 1 14 15 1 14	\$22 \$22 \$22 \$22	13 \$221 13 \$221 13 \$221 13 \$221	\$0 \$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2 2 2 2	2016 1 2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21	034 2 034 2 034 2				2018 201 2018 201 2018 201 2018 201	18 2033 18 2033 18 2033	3 2 3 2 3 2 3 2
372 Roads - Sign Regulatory Sign 374 Roads - Sign Regulatory Sign 375 Roads - Sign Regulatory Sign 376 Roads - Sign Regulatory Sign	Other Other Other Other	2002 2002 2002 2002	15 1 14 15 1 14 15 1 14 15 1 14	\$22 \$22 \$22 \$22	13 \$221 13 \$221 13 \$221 13 \$221	\$0 \$0 \$0 \$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5	Average Average Average	Possible Possible Possible Possible	Minor Minor Minor Minor	M	2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21	034 2 034 2 034 2				2018 201 2018 201 2018 201 2018 201	18 2033 18 2033 18 2033	3 2 3 2 3 2 3 2
386 Roads - Sign Regulatory Sign 388 Roads - Sign Regulatory Sign 389 Roads - Sign Regulatory Sign	Other Other Other Other		15 1 14	\$22 \$22 \$22	3 \$223 3 \$223	\$0 \$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Average Average Average Average	Possible Possible Possible Possible Possible	Minor Minor Minor		2 2 2 2 2	2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21	034 2 034 2 034 2				2018 201 2018 201 2018 201	8 2033 8 2033 8 2033 8 2033	3 2 3 2 3 2
400 Roads - Sign Regulatory Sign 401 Roads - Sign Regulatory Sign	Other Other Other Other Other Other	2002	15 1 14 15 1 14 15 1 14	\$22 \$22		\$0 \$0 \$0	\$250 1 \$250 1 \$250 1 \$250 1 \$250 1	5 5 5 5 5 5 5 5 5 5	Average Average Average Average Average	Possible Possible Possible Possible Possible	Minor Minor Minor	M	2 2 2 2 2	2016 1 2016 1 2016 1 2016 1 2016 1	0 2018 0 2018 0 2018 0 2018 0 2018	2018 21 2018 21 2018 21 2018 21 2018 21 2018 21	034 2 034 2 034 2				2018 201 2018 201	8 2033 18 2033 18 2033	3 2 3 2 3 2
402 Roads - Sign Regulatory Sign 403 Roads - Sign Regulatory Sign	Other Other	2002	15 1 14 15 1 14		3 \$223 3 \$223	\$0	\$250 1 \$250 1	5 5 5 5	Average	Possible	Minor	М	2	2016 1 2016 1	0 2018 0 2018	2018 21 2018 21	034 2 034 2				2018 201 2018 201	18 2033 18 2033	2

Fixed Asset Subtype	Asset Name	Asset Type	install Year	Useful F Life L	Remaining Useful Life	Age	Historic Cos	2015 Accumulate Amortizatio System	2015 Net Book Value System	e Replacement Cost	Condition Bas On Useful Lif	ed Assesser e Condition	Condition d Used for n Analysi	n Asset Con r (As per Pr s Rating	tionity (E	Failure Sased on or indition or expected	Consequence i	Risk of Failure	Numerical alue of Risk of Failure Tealure	Current Levels of Service % benefit	Revised Levels Service Replacement Year	r Replacement pplying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life	Rehabiliation Year Cost (2016)	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current	Revised evels Service Replacement Year	Year Replacement Subs Applying Risk Repli Score - or Staff Override	sequent Revised lacement Remaining Year Useful Life
411 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other	2002	15 15 15	- 1	14 14 14 14	\$22 \$22	23 \$2 23 \$2	23 5 23 5 23 5	\$0 \$251 \$0 \$251 \$0 \$251 \$0 \$251	1 1	5 5 5	5 5 5	Averag Averag Averag Averag	ge F ge F	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 10 10 10	2018 2018 2018 2018 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2				2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
412 Roads - Sign 413 Roads - Sign 414 Roads - Sign 415 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other Other	2002 2002 2002	15	1 1 1	14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2	23 S 23 S 23 S	\$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i	1 1 1	5 5 5	5 5 5	Averag Averag Averag Averag Averag	ge F ge F	ossible ossible ossible ossible	Minor Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10	2018 2018 2018 2018 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2				2018 2018 2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2 2033 2
416 Roads - Sign 421 Roads - Sign 422 Roads - Sign 423 Roads - Sign 424 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other	2002 2002 2002	15	1 1	14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2	23 \$ 23 \$ 23 \$	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250	1 1	5 5 5 5	5 5 5 5	Averag	ge F ge F	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016	10 10	2018 2018 2018 2018 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2				2018 2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2 2033 2
425 Roads - Sign 426 Roads - Sign 428 Roads - Sign 429 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other	2002 2002 2002	15 15 15 15	1 1	14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2	23 5 23 5 23 5	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250	1 1 1	5 5 5	5 5 5	Averag Averag Averag Averag	ge F ge F	Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016	10	2018 2018 2018 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2				2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
430 Roads - Sign 431 Roads - Sign 432 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other	2002 2002 2002 2002	15 15 15 15	1 1 1	14 14 14	\$22 \$22 \$22 \$22	23 \$2 23 \$2 23 \$2 23 \$2	23 S 23 S 23 S 23 S	\$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i	1 1	5 5 5	5 5 5	Averag Averag Averag Averag	30 F 30 F 30 F	Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 10 10 10	2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2				2018 2018 2018 2018	2018 2 2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
433 Roads - Sign 434 Roads - Sign 436 Roads - Sign 437 Roads - Sign 438 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other	2002 2002 2002	15 15 15 15	1 1	14 14 14	\$22 \$22 \$22 \$22	23 \$2 23 \$2 23 \$2	23 § 23 § 23 §	\$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i	1 1 1	5 5 5	5 5 5	Averaç Averaç Averaç Averaç	ge F ge F	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 10 10	2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2				2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
439 Roads - Sign 440 Roads - Sign 441 Roads - Sign 442 Roads - Sign 443 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other Other	2002	15 15 15 15	1 1 1	14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2	23 \$ 23 \$	\$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i	1 1 1	5 5 5 5	5 5 5 5	Averag Averag Averag Averag	ge F ge F	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10	2018 2018 2018 2018 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2				2018 2018 2018 2018 2018 2018	2018 2 2018 2	2033 2
444 Roads - Sign 445 Roads - Sign 445 Roads - Sign 446 Roads - Sign 447 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other	2002 2002 2002	15 15 15 15	1	14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2	23 \$ 23 \$ 23 \$	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250	1 1 1	5 5 5	5 5 5 5	Averag Averag Averag Averag Averag	ge F ge F	ossible ossible ossible ossible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016	10 10 10 10	2018 2018 2018 2018 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034 2034					2018 2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2 2033 2
448 Roads - Sign 449 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other	2002 2002 2002 2002	15 15 15	1 1 1	14 14 14	\$22 \$22 \$22 \$22	23 \$2 23 \$2 23 \$2	23 § 23 § 23 §	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250	1 1 1	5 5 5	5 5 5 5	Averag Averag Averag Averag	ge F ge F	Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016	10	2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034					2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
452 Roads - Sign 453 Roads - Sign 455 Roads - Sign 456 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other	2002	15 15	1 1	14 14 14 14	\$22 \$22	23 \$2 23 \$2 23 \$2	23 \$ 23 \$ 23 \$	\$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i	1 1	5 5 5	5 5 5	Averag Averag Averag Averag	ge F ge F	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 10 10	2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2				2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
457 Roads - Sign 458 Roads - Sign 459 Roads - Sign 461 Roads - Sign 464 Roads - Sign	Regulatory Sign Regulatory Sign	Other Other Other Other Other	2002 2002 2002	15 15 15 15	1 1	14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2	23 \$ 23 \$ 23 \$	\$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i	1 1	5 5 5 5	5 5 5	Averag Averag Averag Averag Averag	ge F ge F	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016	10 10 10	2018 2018 2018 2018 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2 2				2018 2018 2018 2018 2018	2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
464 Roads - Sign 473 Roads - Sign 474 Roads - Sign 476 Roads - Sign 477 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other	2002 2002 2002	15 15 15 15	1 1	14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2	23 \$ 23 \$ 23 \$	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250	1 1	5 5 5	5 5 5 5	Averag Averag Averag Averag	ge F ge F	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016		2018 2018 2018 2018 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2				2018 2018 2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2
478 Roads - Sign 481 Roads - Sign 482 Roads - Sign 483 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign Resulatory Sign	Other Other Other Other	2002 2002 2002 2002	15 15 15 15	1	14 14 14	\$22 \$22 \$22 \$22	23 \$2 23 \$2 23 \$2 23 \$2	23 \$ 23 \$ 23 \$ 23 \$	\$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i	1 1	5 5 5 5	5 5 5 5	Averag Averag Averag Averag	30 F 30 F 30 F	Possible Possible Possible	Minor Minor Minor Minor	M	2 2016 2 2016 2 2016 2 2016	10 10 10 10	2018 2018 2018 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034	2 2				2018 2018 2018 2018	2018 2 2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
485 Roads - Sign 487 Roads - Sign 489 Roads - Sign 493 Roads - Sign 494 Roads - Sign	Regulatory Sign	Other Other Other Other	2002 2002 2002	15 15 15	1 1 1	14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2	23 S 23 S 23 S	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250	1 1	5 5 5	5 5 5	Averag	ge F ge F	Possible Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10	2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034 2034	2				2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
496 Roads - Sign 497 Roads - Sign 498 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other Other	2002	15 15 15	1	14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2	23 9 23 9 23 9	\$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i	1	5 5 5	5 5 5	Averag Averag Averag Averag Averag	ge F ge F	Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016	10 10 10 10	2018 2018 2018 2018 2018 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2 2				2018 2018 2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2 2033 2
499 Roads - Sign 500 Roads - Sign 503 Roads - Sign 506 Roads - Sign 509 Roads - Sign	Regulatory Sign Regulatory Sign	Other Other Other Other	2002	15 15 15 15	1	14 14 14 14	\$22 \$22	23 \$2 23 \$2 23 \$2	23 S 23 S	\$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i	1 1 1	5 5 5 5	5 5 5 5	Averag Averag	30 F 30 F 30 F	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016	10	2018 2018 2018 2018 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2				2018 2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
512 Roads - Sign 513 Roads - Sign 516 Roads - Sign 517 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other	2002 2002 2002	15 15 15 15	1 1	14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2	23 \$ 23 \$ 23 \$	\$0 \$251 \$0 \$251 \$0 \$251 \$0 \$251	1 1 1	5 5 5	5 5 5	Averaç Averaç Averaç Averaç	ge F ge F ge F	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 10 10	2018 2018 2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2				2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2
519 Roads - Sign 520 Roads - Sign 523 Roads - Sign 524 Roads - Sign 527 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other	2002	15 15 15 15	1 1 1	14 14 14 14	\$22 \$22	23 \$2	23 \$ 23 \$	\$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i	1 1 1 1 1	5 5 5	5 5 5 5	Averag Averag Averag Averag	ge F ge F	Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 10 10 10	2018 2018 2018 2018 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2				2018 2018 2018 2018 2018 2018	2018 2 2018 2	2033 2 2033 2 2033 2 2033 2 2033 2
529 Roads - Sign 531 Roads - Sign 533 Roads - Sign 535 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other	2002 2002 2002 2002	15 15 15	1 1	14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2 23 \$2	23 \$ 23 \$ 23 \$ 23 \$	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250	1 1 1	5 5 5 5	5 5 5	Averag Averag Averag Averag Averag	ge F ge F ge F	ossible ossible ossible ossible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 10	2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2				2018 2018 2018 2018	2018 2 2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
536 Roads - Sign 537 Roads - Sign 538 Roads - Sign 540 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other	2002 2002 2002	15 15 15	1 1 1	14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2	23 \$ 23 \$ 23 \$	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250	1 1 1	5 5 5	5 5 5	Averag Averag Averag Averag	ge F ge F ge F	Possible Possible Possible Possible	Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016	10 10 10	2018 2018 2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034	2				2018 2018 2018 2018	2018 2 2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
543 Roads - Sign 558 Roads - Sign 560 Roads - Sign 565 Roads - Sign 567 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other Other	2002 2002 2002 2002	15 15	1	14 14 14 14 14	\$22 \$22	23 \$2 23 \$2 23 \$2 23 \$2	23 § 23 § 23 § 23 §	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250	1 1 1 1 1 1	5 5 5 5	5 5 5 5	Averag Averag Averag Averag Averag	9e F 9e F 9e F	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 10 10 10	2018 2018 2018 2018 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034 2034 2034	2 2 2 2				2018 2018 2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2 2033 2
569 Roads - Sign 570 Roads - Sign 572 Roads - Sign 572 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign Resulatory Sign	Other Other Other	2002 2002 2002 2002	15 15 15 15	1 1	14 14 14	\$22 \$22 \$22 \$22	23 \$2 23 \$2 23 \$2 23 \$2	23 9 23 9 23 9	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250	1 1 1	5 5 5 5	5 5 5	Averag Averag Averag Averag	ge F ge F ge F	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016	10 10 10 10	2018 2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2				2018 2018 2018 2018	2018 2 2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
579 Roads - Sign 580 Roads - Sign 582 Roads - Sign 586 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other	2002 2002 2002 2002	15 15 15 15	1 1 1	14 14 14 14	\$22 \$22 \$22 \$22	23 \$2 23 \$2 23 \$2 23 \$2	23 9 23 9 23 9	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250	1 1 1	5 5 5	5 5 5	Averag Averag Averag Averag	30 F 30 F 30 F	Possible Possible Possible	Minor Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 10 10	2018 2018 2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2				2018 2018 2018 2018	2018 2 2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
587 Roads - Sign 589 Roads - Sign 592 Roads - Sign 593 Roads - Sign 594 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other	2002 2002 2002	15 15 15 15	- 1	14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2	23 \$ 23 \$ 23 \$	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250	1 1 1 1 1	5 5 5	5 5 5 5	Averag Averag Averag Averag Averag	ge F ge F	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016		2018 2018 2018 2018 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2				2018 2018 2018 2018 2018 2018	2018 2	
596 Roads - Sign 597 Roads - Sign 601 Roads - Sign 603 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other	2002 2002 2002 2002	15 15 15 15	1 1 1	14 14 14	\$22 \$22 \$22 \$22	23 \$2 23 \$2 23 \$2 23 \$2	23 § 23 § 23 § 23 §	\$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i	1 1	5 5 5 5	5 5 5	Averag Averag Averag Averag	9e F 9e F 9e F	Possible Possible Possible	Minor Minor Minor Minor	M	2 2016 2 2016 2 2016 2 2016 2 2016	10	2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2				2018 2018 2018 2018	2018 2 2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
607 Roads - Sign 610 Roads - Sign 611 Roads - Sign 613 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other	2002 2002 2002	15 15 15	1	14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2	23 \$ 23 \$ 23 \$	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250	1	5 5 5	5 5 5	Averag Averag Averag Averag	ge F ge F	Possible Possible Possible Possible		M M M	2 2016 2 2016 2 2016 2 2016	10 10 10	2018 2018 2018 2018 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034	2 2				2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
614 Roads - Sign 618 Roads - Sign 623 Roads - Sign 627 Roads - Sign 630 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other Other	2002	15 15 15 15	1	14 14 14 14 14	\$22 \$22	23 \$2 23 \$2 23 \$2	23 § 23 § 23 §	\$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i	1 1 1	5 5 5	5 5 5 5	Averag Averag Averag Averag Averag	ge F	Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 10 10 10	2018 2018 2018 2018 2018	2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2 2				2018 2018 2018 2018 2018	2018 2 2018 2	2033 2 2033 2 2033 2
638 Roads - Sign 639 Roads - Sign 640 Roads - Sign 641 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other	2002 2002 2002	15 15 15	1 1 1	14 14 14	\$22 \$22 \$22 \$22	23 \$2 23 \$2	23 \$ 23 \$	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250	1 1	5 5 5	5 5 5	Averag Averag Averag Averag	ge F	Possible Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 10 10	2018 2018 2018 2018 2018 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2				2018 2018 2018 2018 2018 2018	2018 2 2018 2	2033 2 2033 2 2033 2 2033 2 2033 2
642 Roads - Sign 643 Roads - Sign 644 Roads - Sign 645 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other	2002	15	1 1	14 14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2	23 \$ 23 \$ 23 \$	\$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i	1 1	5 5 5	5 5 5	Averag Averag Averag Averag	ge F ge F ge F	Possible Possible Possible Possible	Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 10 10	2018 2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034	2 2 2 2				2018 2018 2018 2018	2018 2 2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
647 Roads - Sign 648 Roads - Sign 649 Roads - Sign 652 Roads - Sign 654 Roads - Sign	Regulatory Sign Regulatory Sign	Other Other Other Other Other	2002 2002	15 15 15 15	1	14 14 14 14	\$22 \$22	23 \$2 23 \$2	23 S 23 S 23 S	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250	1 1 1	5 5 5 5	5 5 5 5	Averag Averag Averag Averag Averag	20 F 30 F	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 10 10	2018 2018 2018 2018 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034 2034					2018 2018 2018 2018 2018 2018	2018 2	2033 2 2033 2 2033 2 2033 2 2033 2
655 Roads - Sign 657 Roads - Sign 677 Roads - Sign 678 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other	2002 2002 2002	15 15 15	1 1 1	14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2	23 \$ 23 \$ 23 \$	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250	1 1 1	5 5 5	5 5 5	Averaç Averaç Averaç Averaç	ge F ge F ge F	ossible ossible ossible ossible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 10 10 10	2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2				2018 2018 2018 2018	2018 2 2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
680 Roads - Sign 681 Roads - Sign 682 Roads - Sign 683 Roads - Sign 685 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other Other	2002 2002 2002			14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2	23 \$ 23 \$ 23 \$	\$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i	1 1 1	5 5 5 5	5 5 5 5	Averag Averag Averag Averag Averag	ge F ge F	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 10 10 10	2018 2018 2018 2018 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2				2018 2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2 2033 2
686 Roads - Sign 687 Roads - Sign 688 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other	2002 2002 2002 2002	15 15 15	1 1 1	14 14 14	\$22 \$22 \$22 \$22	23 \$2 23 \$2 23 \$2 23 \$2	23 \$ 23 \$ 23 \$ 23 \$	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250	1 1 1	5 5 5	5 5 5	Averag Averag Averag	ge F ge F ge F	Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016	10 10 10	2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2				2018 2018 2018 2018	2018 2 2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
689 Roads - Sign 690 Roads - Sign 693 Roads - Sign 694 Roads - Sign 695 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other Other	2002 2002 2002	15 15 15 15	1 1	14 14 14 14	\$22 \$22 \$22	23 \$2	23 S 23 S 23 S	\$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i	1 1	5 5 5	5 5 5 5	Averag Averag Averag Averag Averag	ge F ge F	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 10 10	2018 2018 2018 2018 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034	2				2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2 2033 2
696 Roads - Sign 697 Roads - Sign 698 Roads - Sign 699 Roads - Sign 700 Roads - Sign	Regulatory Sign Regulatory Sign	Other Other Other	2002 2002 2002	15	- 1	14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2	23 \$ 23 \$ 23 \$	\$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i \$0 \$25i	1 1 1	5 5 5 5	5 5 5 5	Averag Averag Averag Averag	ge F ge F	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 10 10 10	2018 2018 2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034 2034 2034	2				2018 2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
701 Roads - Sign 702 Roads - Sign 703 Roads - Sign 704 Roads - Sign 705 Roads - Sign	Regulatory Sign Regulatory Sign	Other Other Other Other Other Other	2002	15 15 15 15	1 1	14 14 14 14	\$22 \$22	23 \$2 23 \$2	23 \$ 23 \$	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250		5 5 5	5 5 5	Averag Averag Averag Averag Averag	ge F ge F	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 10 10 10	2018 2018 2018 2018 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2				2018 2018 2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2 2033 2
707 Roads - Sign 709 Roads - Sign 715 Roads - Sign 716 Roads - Sign	Regulatory Sign Regulatory Sign Regulatory Sign	Other Other Other Other	2002	15 15 15	- 1	14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2	23 \$ 23 \$ 23 \$	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250	1 1	5 5 5 5	5 5 5 5	Averaç Averaç Averaç Averaç	ge F ge F	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016	10 10 10 10	2018 2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2				2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2
718 Roads - Sign 719 Roads - Sign 720 Roads - Sign 723 Roads - Sign 725 Roads - Sign	Regulatory Sign Regulatory Sign	Other Other Other Other Other	2002	15 15 15 15	1	14 14 14 14 14	\$22 \$22	23 \$2 23 \$2 23 \$2	23 \$ 23 \$ 23 \$	\$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250 \$0 \$250	1 1 1 1 1	5 5 5	5 5 5 5	Averag Averag Averag Averag Averag	ge F	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10 10 10 10	2018 2018 2018 2018 2018 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2				2018 2018 2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2 2033 2
726 Roads - Sign 4083 Roads - Sign 3450 Roads - Sign 4146 Roads - Sign	Regulatory Sign Regulatory Sign School Bus Stop Ahead - 2nd Line - North Bound I Stop Ahead - 2nd Line - North Bound Lot 20	Other Other School Bus Stop Ahead Stop Ahead	2002 2002 2011 2014	15 15 15	1 1 10 13	14 14 5	\$22 \$22 \$9 \$14	23 \$2 23 \$2 99 \$ 40 \$	23 \$ 23 \$ 50 \$5 19 \$12	\$0 \$25i \$0 \$25i 50 \$25i 21 \$14i	1 1 7 9	5	5 5 7 9	Averag Averag Good Very Go	ge F ge F l t	Possible Possible Unlikely Rare	Minor Minor Major Major	M M M	2 2016 2 2016 2 2025 2 2028	10 10 10	2018 2018 2027 2030	2018 2018 2027 2030	2034 2034 2045 2046	11				2018 2018 2027 2030	2018 2 2018 2 2027 2 2030 2	2033 2 2033 2 2042 11 2045 14
4149 Roads - Sign 4145 Roads - Sign 3461 Roads - Sign	Stop Ahead - 2nd Line - South Bound at 25th Stop Ahead - 2nd Line - South Bound Lot 6	Stop Ahead Stop Ahead Stop Ahead Stop Ahead	2014 2014 2011	15 15 15 15	13 13 10	2 2 2 5	\$14 \$14 \$9	40 \$ 40 \$ 99 \$	19 \$12 19 \$12 19 \$12 50 \$5 50 \$5	21 \$140 21 \$140 50 \$250	9 9 9 7		9 9 9 7	Very Go Very Go Very Go Good Good	ood ood	Rare Rare Rare Unlikely Unlikely	Major Major Major Major Major	M M M	2 2028 2 2028 2 2028 2 2028 2 2025	10	2030 2030 2030 2027 2027	2030 2030 2030 2027 2027	2046 2046 2046 2043 2043	14				2030 2030 2030 2027 2027	2030 2 2030 2 2027 2	2045 14 2045 14 2045 14 2045 14 2042 11 2042 11
3492 Roads - Sign 4245 Roads - Sign 3447 Roads - Sign 3445 Roads - Sign	Stop Ahead - Station Street West of Peter Street Stop Ahead Sign - 2nd Line North Bound at 25th S Stop Ahead Sign - Amaranth / Mono TL - Noth Bo Stop Ahead Sign - Amaranth / Mono TL - Noth Bo	Stop Ahead Stop Ahead Stop Ahead	2011 2015 2011 2011	15 15 15	10 14 10 10	5 1 5	\$9 \$16 \$9 \$9	99 \$ 51 \$ 99 \$	50 \$5 16 \$14 50 \$5	50 \$250 45 \$16: 50 \$250 50 \$250	7		7 9 7	Good Very Go Good Good	l l	Unlikely Rare Unlikely Unlikely	Major Major Major Major	M M M	2 2025 2 2029 2 2025 2 2025 2 2025	10 10 10 10	2027 2031 2027 2027	2027 2031 2027 2027	2043 2043 2043 2043	11 15 11				2027 2031 2027 2027	2027 2 2031 2 2027 2 2027 2	2042 11 2046 15 2042 11 2042 11
3444 Roads - Sign 4099 Roads - Sign 4100 Roads - Sign	Stop Ahead Sign - Amaranth / Mono TL - South Bi Stop Ahead Sign - Amaranth / Mono TL - South Bi Stop Sign - 10th Line - 15th SR North East Conner Stop Sign - 10th Line - 15th SR South West Corner Stop Sign - 10th Line at 20th SR North Bound	Stop	2011 2011 2012 2012 2014	15 15	10 11	5 5 4 4	\$9 \$21	99 S	50 \$5 85 \$12	50 \$25i 27 \$25i 27 \$25i	7		7 7 7 7 9	Good Good Good Good		Unlikely Unlikely Unlikely Unlikely	Major Major Major Major	M M M	2 2025 2 2025 2 2026 2 2026	10 10 10	2027 2027 2028 2028	2027 2027 2028 2028	2043 2043 2044 2044 2046	11 12 12				2027 2027 2028 2028	2027 2 2028 2 2028 2	2042 11 2042 11 2043 12 2043 12
548 Roads - Sign 549 Roads - Sign 3460 Roads - Sign	Stop Sign - 15th SR - 2nd Line East Bound Stop Sign - 15th SR - 7th Line North East Corner Stop Sign - 15th SR - 7th Line South West Corner Stop Sign - 15th SR - Amaranth / Mono TL	Stop	2011 2012 2012 2011	15 15 15 15	10 11 11 10	2 5 4 4 5	\$21 \$21 \$9	12 \$ 12 \$ 99 \$	50 \$8 85 \$12 85 \$12 50 \$8	50 \$25i 27 \$25i 27 \$25i 50 \$25i	7 7 7 7		7 7 7 7	Very Go Good Good Good Good		Rare Unlikely Unlikely Unlikely Unlikely	Major Major Major Major Major	M M M	2 2028 2 2025 2 2026 2 2026 2 2025	10 10 10 10 10	2030 2027 2028 2028 2027	2030 2027 2028 2028 2027	2043 2044 2044 2043	11				2030 2027 2028 2028 2027	2027 2 2028 2 2028 2 2027 2	2045 14 2042 11 2043 12 2043 12 2043 12
4134 Roads - Sign 234 Roads - Sign 236 Roads - Sign 4236 Roads - Sign	Stop Sign - 25 SR Intersection at 6th Line West Bc Stop Sign - 25th SR - 10th Line North East Corner Stop Sign - 25th SR - 10th Line South West Corner Stop Sign - 25th SR - 4th Line East Bound	Stop Stop Stop	2014 2013 2013 2015	15 15 15 15	13 12 12 14	2 3 3 1	\$13 \$27 \$27 \$16 \$16	32 \$ 78 \$ 78 \$	26 \$10 93 \$18 93 \$18 16 \$14 16 \$14	06 \$13: 85 \$25: 85 \$25: 45 \$16:	9 8 8 9		9 8 8 9	Very Go Very Go Very Go	ood ood ood	Rare Rare Rare Rare	Major Major Major Major Major	M M M	2 2028 2 2027 2 2027 2 2029 2 2029 2 2029	10 10 10	2030 2029 2029 2031 2031	2030 2029 2029 2031 2031	2046 2045 2045 2047 2047	14 13 13 15				2030 2029 2029 2031 2031	2030 2 2029 2 2029 2 2031 2	2045 14 2044 13 2044 13 2046 15 2046 15
606 Roads - Sign 220 Roads - Sign	Stop Sign - 25th SR - 4th Line West Bound Stop Sign - 25th SR - 6th Line North East Corner Stop Sign - 25th SR - 6th Line South West Corner Stop Sign - 25th SR - 8th Line North East Corner Stop Sign - 25th SR - 8th Line South West Corner	Stop Stop	2012 2012 2013	15	11 11 12	4 3 3	\$21 \$21 \$27	12 \$ 12 \$ 78 \$	85 \$12 85 \$12 93 \$18 93 \$18	27 \$251 27 \$251 85 \$251	7 7 8 8		7 7 8 8	Good Good Very Go	l l	Unlikely Unlikely Rare Rare	Major Major Major Major	M M M	2 2026 2 2026 2 2027 2 2027 2 2027	10 10 10 10	2028 2028 2028 2029 2029	2028 2028 2028 2029 2029	2044 2044 2045 2045	12 12 13				2028 2028 2029 2029	2028 2 2028 2 2029 2 2029 2	2043 12 2043 12 2044 13 2044 13
4238 Roads - Sign 4237 Roads - Sign 3293 Roads - Sign 4140 Roads - Sign	Stop Sign - 25th SR - 9th Line East Bound Stop Sign - 25th SR - 9th Line West Bound Stop Sign - 2nd Line - 5th SR South East Corner Stop Sign - 30 SR Devonleigh Drive - east exit	Stop Stop Stop	2015 2015 2010 2014	15 15 15 15	14 14 9 13	1 1 6 2	\$16 \$16 \$24 \$13	51 \$ 51 \$ 40 \$1 32 \$	16 \$14 16 \$14 44 \$9 26 \$10	45 \$16 45 \$16 96 \$25 06 \$13	9 9 6 9		9 9 6	Very Go Very Go Good Very Go	ood ood I I	Rare Rare Unlikely Rare	Major Major Major Major	M M M	2 2029 2 2029 2 2024 2 2028	10 10 10 10	2031 2031 2026 2030	2031 2031 2026 2030	2047 2047 2042 2046	10				2031 2031 2026 2030	2031 2 2031 2 2026 2 2030 2	2046 15 2046 15 2041 10 2045 14
272 Roads - Sign 267 Roads - Sign 266 Roads - Sign 4095 Roads - Sign	Stop Sign - 30th SR - 6th Line North East Corner Stop Sign - 30th SR - 6th Line South West Corner Stop Sign - 30th SR - 8th Line North East Corner Stop Sign - 30th SR - 8th Line South West Corner Stop Sign - 30th SR - 8th Line South West Corner Stop Sign - 4th Line - 15th SR North East corner	Stop Stop	2013 2013 2013	15	12 12 12	3 3 3 3 4	\$27 \$27 \$27	78 \$ 78 \$ 78 \$	93 \$18 85 \$12	85 \$250 85 \$250 27 \$250	8 8 8 8 7		8 8 8 8	Very Go Very Go Very Go Very Go Good	ood ood ood	Rare Rare Rare Unlikely	Major Major Major Major Major	M M M	2 2027 2 2027 2 2027 2 2027 2 2026	10 10 10 10	2029 2029 2029 2029 2029 2028	2029 2029 2029 2029 2029 2028	2045 2045 2045 2045 2045 2044	13 13 13 12				2029 2029 2029 2029 2029 2028	2029 2 2029 2 2029 2 2028 2	2044 13 2043 12
4105 Roads - Sign 4106 Roads - Sign 3494 Roads - Sign 3321 Roads - Sign	Stop Sign - 4th Line - 30th SR North East Corner Stop Sign - 4th Line - 30th SR South West Corner Stop Sign - 5th SR - 8th Line East Bound Stop Sign - 5th SR - 9th Line North East Corner	Stop Stop Stop Stop	2012 2012 2011 2010	15 15 15	11 11 10 9	4 4 5	\$21 \$21 \$9 \$24	12 S 12 S 99 S 40 S1	85 \$12 85 \$12 50 \$5 44 \$5	27 \$251 27 \$251 50 \$251 96 \$251	7 7 7 6		7 7 7 6	Good Good Good Good		Unlikely Unlikely Unlikely Unlikely	Major Major Major Major	M M M	2 2026 2 2026 2 2025 2 2024	10 10 10 10	2028 2028 2027 2026	2028 2028 2027 2026	2044 2044 2043 2043	12 12 11 10				2028 2028 2027 2026	2028 2 2028 2 2027 2 2026 2	2043 12 2043 12 2042 11 2041 10
4141 Roads - Sign 4112 Roads - Sign 4107 Roads - Sign	Stop Sign - 5th SR - 9th Line South West Corner Stop Sign - 5th SR at 7th Line - west bound Stop Sign - 6th Line - 20th SR Stop Sign - 6th Line - 25th SR North East Corner Stop Sign - 6th Line - 25th SR South West Corner	Stop Stop	2013	15 15 15 15	13 12 11	5 2 3 4	\$13 \$27 \$21	32 \$ 78 \$ 12 \$	26 \$10 83 \$19	06 \$133 94 \$256 27 \$256	9 8 7		6 9 8 7	Good Very Go Very Go Good Good	ood ood	Unlikely Rare Rare Unlikely Unlikely	Major Major Major Major Major	M M M	2 2024 2 2028 2 2027 2 2026 2 2026 2 2026	10 10 10	2026 2030 2029 2028 2028	2026 2030 2029 2028 2028	2045 2046 2045 2044 2044	14 13 12				2026 2030 2029 2028 2028	2030 2 2029 2 2028 2	2041 10 2045 14 2044 13 2043 12 2043 12
4110 Roads - Sign 4110 Roads - Sign 4103 Roads - Sign	Stop Sign - 6th Line - 25th SR South West Corner Stop Sign - 7th Line - 15th SR North EAST Corner Stop Sign - 7th Line - 15th SR South West Corner Stop Sign - 7th Line - 30th SR North East Corner Stop Sign - 7th Line - 30th SR South West Corner Stop Sign - 7th Line - 5th SR	Stop Stop	2012	15 15	11	4 4 4 4	\$21 \$21 \$21	12 \$ 12 \$ 12 \$	85 \$12 85 \$12 85 \$12	27 \$25i 27 \$25i 27 \$25i 27 \$25i	7		7 7 7 7	Good Good Good		Unlikely Unlikely Unlikely Unlikely Unlikely Rare	Major Major Major Major	M M M	2 2026 2 2026 2 2026 2 2026	10 10 10 10 10	2028 2028 2028 2028	2028 2028 2028 2028 2028 2028 2029	2044 2044 2044 2044 2044 2045	12				2028 2028 2028 2028 2028 2028 2029	2028 2 2028 2 2028 2 2028 2	2043 12 2043 12 2043 12 2043 12
4097 Roads - Sign 4098 Roads - Sign 4101 Roads - Sign	Stop Sign - 8th Line - 15th SR North East Corner Stop Sign - 8th Line - 15th SR South West Corner Stop Sign - 9th Line - 15th SR North East Corner	Stop	2012	15 15 15	11 11	3 4 4 4	\$21 \$21 \$21	12 \$ 12 \$ 12 \$	83 \$19 85 \$12 85 \$12 85 \$12 85 \$12	27 \$25i 27 \$25i 27 \$25i	8 7 7 7		7 7 7	Very Go Good Good Good Good		Unlikely Unlikely Unlikely	Major Major Major Major	M M M	2 2027 2 2026 2 2026 2 2026 2 2026 2 2026	10 10 10	2029 2028 2028 2028 2028 2028	2029 2028 2028 2028 2028 2028	2045 2044 2044 2044 2044	12				2029 2028 2028 2028 2028 2028	2029 2 2028 2 2028 2 2028 2	2044 13 2043 12 2043 12 2043 12 2043 12
3292 Roads - Sign 3458 Roads - Sign 3495 Roads - Sign	Stop Sign - 9th Line - 15th SR South West Corner Stop Sign - 9th Line - 20th SR South East Corner Stop Sign - Amaranth / Grand Valley TL - 15th SR Stop Sign - Amaranth / Grand Valley TL farthest N Stop Sign - Amaranth / Mono TL - North Bound 2:	Stop	2010 2011 2011 2011	15 15 15 15	9 10 10	5 5 5	\$24 \$9 \$9 \$9	40 \$1 99 \$ 99 \$	44 \$9	96 \$250 50 \$250 50 \$250 50 \$250	7 7 7		7 6 7 7	Good Good Good Good		Unlikely Unlikely Unlikely Unlikely Unlikely	Major Major Major Major Major	M M M	2 2026 2 2024 2 2025 2 2025 2 2025 2 2025	10 10 10 10	2026 2027 2027 2027	2026 2027 2027 2027	2042 2043 2043 2043	10 11 11				2028 2026 2027 2027 2027	2026 2 2027 2 2027 2 2027 2	2042 11 2042 11
3441 Roads - Sign 3442 Roads - Sign 3440 Roads - Sign 4128 Roads - Sign	Stop Sign - Amaranth / Mono TL - North Bound 3i Stop Sign - Amaranth / Mono TL - South Bound 2i Stop Sign - Amaranth / Mono TL - South Bound 3i Stop Sign - Amaranth Estates	Stop Stop Stop	2011 2011 2011 2014	15 15 15	10 10 10 13	5 5 5	\$9 \$9 \$9 \$13	99 \$ 99 \$ 32 \$	50 \$8 50 \$8 50 \$8 26 \$10	50 \$251 50 \$251 50 \$251 06 \$133	7 7 7 9	E	7 7 7 9	Good Good Good Very Go	I I	Unlikely Unlikely Unlikely Rare	Major Major Major Major	M M M	2 2025 2 2025 2 2025 2 2028	10 10 10	2027 2027 2027 2030	2027 2027 2027 2030	2043 2043 2043 2046	11 11 11				2027 2027 2027 2030	2027 2 2027 2 2027 2 2030 2	2042 11 2042 11 2042 11 2045 14
4127 Roads - Sign 4242 Roads - Sign 3490 Roads - Sign 3491 Roads - Sign 650 Roads - Sign	Stop Sign - Amaranth Estates 30th 5R coming out Stop Sign - Amaranth/Mono Townline South Bou Stop Sign - Station Street - Peter Street East Bour Stop Sign - Station Street - Peter Street West Bou Stop Sign & Tiger Tail - Amaranth / Mono TL - No:	Stop Stop	2015 2011 2011	15	13 14 10 10	2 1 5 5	\$13 \$16 \$9 \$9	51 \$ 99 \$ 99 \$	26 \$10 16 \$14 50 \$8 50 \$8 83 \$18	06 \$13: 45 \$16: 50 \$25: 50 \$25:	9 9 7		9 9 7 7 8	Very Go Very Go Good Good Very Go	ood I I I I	Rare Rare Unlikely Unlikely Rare	Major Major Major Major Major	M M M	2 2028 2 2029 2 2025 2 2025 2 2027 2 2027	10 10 10	2030 2031 2027 2027 2029	2030 2031 2027 2027 2027 2029	2046 2043 2043 2043 2045	14 15 11 11 13				2030 2031 2027 2027 2027	2030 2 2031 2 2027 2 2027 2	2045 14 2046 15 2042 11 2042 11 2044 13
4096 Roads - Sign 4084 Roads - Sign 4150 Roads - Sign 4151 Roads - Sign	StopSign - 4th Line - 15th SR South West Corner Tiger Tail - Station St - Peter St Village Name - Bowling Green - 8th Line - north b Village Name - Bowling Green - 8th Line - south b	Stop Checkerboards Hamlet	2012 2013 2014 2014	15 15 15 15	11 12 13 13	4 3 2 2	\$21 \$8 \$14 \$14	12 \$ 83 \$ 40 \$ 40 \$	85 \$12 17 \$6 19 \$12 19 \$12	27 \$250 66 \$250 21 \$140 21 \$140	7 8 9 9		7 8 9	Good Very Go Very Go Very Go	ood ood ood	Unlikely Rare Rare Rare	Major Minor Minor Minor	M	2 2026 1 2027 1 2028 1 2028	10	2028 2029 2030 2030	2028 2029 2030 2030	2044 2045 2046 2046	12 13 14 14				2028 2029 2030 2030	2028 2 2029 2 2030 2 2030 2	2043 12 2044 13 2045 14 2045 14
55 Roads - Sign 56 Roads - Sign 58 Roads - Sign 92 Roads - Sign 100 Roads - Sign	Warning Sign Warning Sign Warning Sign	Other Other Other	2002 2002 2002 2002	15 15 15 15	1 1 1	14 14 14	\$22 \$22 \$22 \$22	23 \$2 23 \$2 23 \$2 23 \$2	08 \$1 08 \$1 08 \$1	15 \$251 15 \$251 15 \$251 15 \$251	1 1 1	5 5 5 5	5 5 5	Averag Averag Averag Averag	30 F 30 F 30 F	Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016 2 2016	10	2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034	2				2018 2018 2018 2018	2018 2 2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
100 Roads - Sign 119 Roads - Sign 122 Roads - Sign 212 Roads - Sign 239 Roads - Sign	Warning Sign Warning Sign Warning Sign	Other Other Other Other Other	2002 2002 2002	15 15 15	1 1	14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2	08 \$1 08 \$1	15 \$25i 15 \$25i 15 \$25i	1 1 1 1	5 5 5 5	5 5 5 5	Averag Averag Averag Averag Averag	30 F 30 F 30 F	Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016		2018 2018 2018 2018 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2				2018 2018 2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2 2033 2
251 Roads - Sign 265 Roads - Sign 310 Roads - Sign 467 Roads - Sign	Warning Sign Warning Sign Warning Sign Warning Sign	Other Other Other Other	2002	15 15 15 15	1	14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2	08 \$1 08 \$1 08 \$1	15 \$251 15 \$251 15 \$251 15 \$251	1 1 1	5 5 5 5	5 5 5	Averag Averag Averag	ge F ge F ge F	Possible Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10	2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034 2034	2				2018 2018 2018 2018	2018 2 2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
468 Roads - Sign 469 Roads - Sign 470 Roads - Sign 492 Roads - Sign	Warning Sign Warning Sign Warning Sign Warning Sign	Other Other Other	2002 2002 2002	15 15 15 15	1 1 1	14 14 14 14	\$22 \$22 \$22 \$22	23 \$2 23 \$2 23 \$2 23 \$2	08 \$1 08 \$1 08 \$1	15 \$251 15 \$251 15 \$251 15 \$251	1 1 1	5 5 5 5	5 5 5 5	Averag Averag Averag Averag	ge F ge F ge F	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 10 10 10	2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034 2034	2				2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
575 Roads - Sign 588 Roads - Sign 608 Roads - Sign 619 Roads - Sign 620 Roads - Sign	Warning Sign Warning Sign	Other Other Other Other Other	2002	15 15 15 15	1	14 14 14 14 14	\$22 \$22 \$22	23 \$2 23 \$2 23 \$2	08 \$1 08 \$1 08 \$1	15 \$25i	1	5 5 5 5	5 5 5	Averag Averag Averag Averag Averag	ge F ge F	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10	2018 2018 2018 2018 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034 2034	2 2 2 2				2018 2018 2018 2018 2018 2018	2018 2 2018 2	2033 2 2033 2 2033 2
621 Roads - Sign 622 Roads - Sign 626 Roads - Sign 658 Roads - Sign	Warning Sign Warning Sign Warning Sign Warning Sign	Other Other Other Other	2002 2002 2002 2002	15 15 15	1 1	14 14 14	\$22 \$22 \$22 \$22	23 \$2 23 \$2 23 \$2 23 \$2	08 \$1 08 \$1 08 \$1	15 \$25i	1 1	5 5 5 5	5 5 5 5	Averaç Averaç Averaç Averaç	ge F ge F ge F	Possible Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10 10 10 10	2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2 2				2018 2018 2018 2018	2018 2 2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
663 Roads - Sign 684 Roads - Sign 711 Roads - Sign 713 Roads - Sign 739 Roads - Sign	Warning Sign Warning Sign Warning Sign	Other Other Other Other	2002 2002 2002 2002	15 15 15	1 1	14 14 14	\$22 \$22 \$22 \$22	23 \$2 23 \$2 23 \$2 23 \$2	08 \$1 08 \$1	15 \$25i 15 \$25i 15 \$25i	1 1 1	5 5 5	5 5 5 5	Averaç Averaç Averaç	ge F	Possible Possible Possible Possible	Minor Minor Minor Minor	M	2 2016 2 2016 2 2016 2 2016 2 2016 2 2016	10	2018 2018 2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2 2				2018 2018 2018 2018 2018 2018	2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
740 Roads - Sign 741 Roads - Sign 746 Roads - Sign 748 Roads - Sign	Warning Sign Warning Sign Warning Sign Warning Sign	Other Other Other Other Other	2002 2002 2002 2002	15	1 1 1	14 14 14 14 14	\$22 \$22 \$22 \$22	23 \$2 23 \$2 23 \$2 23 \$2	08 \$1 08 \$1 08 \$1	15 \$25i 15 \$25i 15 \$25i 15 \$25i	1	5 5 5 5	5 5 5 5	Averag Averag Averag Averag Averag	ge F ge F ge F	Possible Possible Possible Possible Possible	Minor Minor Minor Minor Minor	M M	2 2016 2 2016 2 2016 2 2016 2 2016	10 10	2018 2018 2018 2018	2018 2018 2018 2018 2018 2018	2034 2034 2034 2034 2034 2034	2				2018 2018 2018 2018	2018 2 2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
749 Roads - Sign 750 Roads - Sign 756 Roads - Sign 757 Roads - Sign	Warning Sign Warning Sign Warning Sign Warning Sign	Other Other Other	2002 2002 2002 2002	15 15 15	1 1	14 14 14	\$22 \$22 \$22 \$22	23 \$2 23 \$2 23 \$2 23 \$2	08 \$1 08 \$1 08 \$1	15 \$251 15 \$251 15 \$251 15 \$251	1 1 1	5 5 5 5	5 5 5	Averaç Averaç Averaç Averaç	ge F ge F ge F	Possible Possible Possible	Minor Minor Minor Minor	M M M	2 2016 2 2016 2 2016 2 2016	10	2018 2018 2018 2018	2018 2018 2018 2018	2034 2034 2034 2034	2 2 2				2018 2018 2018 2018	2018 2 2018 2 2018 2 2018 2	2033 2 2033 2 2033 2 2033 2
3300 Roads - Sign 3299 Roads - Sign 3497 Roads - Sign 3459 Roads - Sign	Winding Road - 20th SR - East of County Rd 12 Ea Winding Road - 20th SR - West of 4th Line West B Yield Sign - 20th SR - East of 7th Line West Bound Yield Sign - 30th SR - 4th Line West Bound	Winding Road Yield Yield	2010 2010 2011 2011	15 15 15	9 9 10 10	6 6 5	\$29 \$29 \$9 \$9	92 \$1 92 \$1 99 \$	17 \$17 17 \$17 50 \$8 50 \$8	75 \$25i 75 \$25i 50 \$25i 50 \$25i	6 6 7 7		6 6 7	Good Good Good Good		Unlikely Unlikely Unlikely Unlikely	Major Major Major Major	M M M	2 2024 2 2024 2 2025 2 2025	10	2026 2026 2027 2027	2026 2026 2027 2027	2042 2042 2043 2043	10 10 11				2026 2026 2027 2027	2026 2 2026 2 2027 2 2027 2	2041 10 2041 10 2042 11 2042 11
.s500 Roads - Sign	Yield Sign - Amaranth / Mono TL - South of 25th 5	, 48U	2011	15	10	5	\$9		50 \$5	50 \$25	7	1	7	Good	. 1	unkely	Major	nd.	2 2025	10	2027	2027	2043	- 11			Т	2027	2027 2	2042 11

Amaranth Roads - Culvert Fixed Asset # Street (Map Link ID) Condition
Used for
Analysis Priority
Rating) Probability
Failure
(Based on
Condition o
Expected
Condition) Revised Remaining Useful Life Condition Based On Useful Life Extended Life (Years) due to Betterment Heigh mm Risk of Value of Failure Risk of Failure Risk of Failure 30 30 30 30 + 17 1 10 8 30 30 30 30 \$ Average Possible Moderate \$ Average Possible Moderate \$ Average Possible Moderate 5 Average Possible Moderate 5 Average Possible Moderate DEROMO AMARANTHE
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CH LINE 1 57 | 1909 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 30 30 30 30 20 20 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 0 30 30 30 30 30 30 30 30 30 30 30 30 30 30 0 0 0 0 0 15 15 15 15 1 2017 2006 2017 2006 2017 2008 2017 2008 2017 2008 2017 2008 2017 2008 2017 2008 2017 2008 2017 2008 2017 2008 2017 2008 2017 2018 30 30 30 30 30 30 30 30 30 30 30 30 30 2017 2074 2072 2153 2017 2074 2017 2074 2017 2074 2017 2074 2021 2051 2021 2051 2017 2074 TH LINE AMARANTH ENGLISH TENE 30 30 30 30 30 10 30 30 30 30 30 30 30 30 30 30 30 20 30 30 30 30 30 30 30 30 30 30 30 30 30 30 H LINE

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Amaranth Roads - Bridge Inventory

Current Leveles of Service Expected Levels of Service

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FIXED ASSET Subt	rpe Asset Name	Asset Type	Install Year		Remaining Useful Life	Age	Historic Cost	2015 Accumulated Amortization	2015 Net Book Value	Replacemen Cost	Based On	Inspection Assesse Conditio	d Condition Used	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence o Failure	f Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimmal maintenance practices	Levels of Service %	Revised Levels Service Replacement Year	Year e Replacement	Subsequent	Revised Remaining Useful Life	Proposed Rehabilitation Cost (2016 \$)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Current +	Revised Levels Service Replacement	Year Replacement Applying Risk Score - or Staff Override	Subsequent	Revised Remaining Useful Life
					29	59	\$ 4,654,146	\$ 1,391,214	\$ 3,262,933	\$ 11,831,022	2		5.7					3							\$ 502,800			aye				
4260 Roads	- Br Arch Culvert - 15th Sideroad for Drain #20	Arch Culvert	2015	30	29	1	\$32,769	\$1,092	\$31,677		0 10		10	Very Good	Rare	Major	M	2	2042	10	204	5 2045	2075	29				0	2045	2045	2075	5 29
	- Br Bridge 1 MTO(4-106) - 6th Line	I-beam or Girders	2007	75	66	9	\$345,958	\$41,515	\$304,443	\$41,50	0 9	9	9	Very Good	Rare	Major	M	2	2075	10	208	3 2083	2159	67				0	2083	2083	2158	8 67
2296 Roads	- Br Bridge 10 MTO(4-72) - 7th Line	Solid Slab	1900	75	0	116	\$16,233	\$16,233	\$0	\$700,00	0 0	4	4	Poor	Likely	Major	Н	3	1968	10	1970	6 2017	2134	1				30	1999	2025	2100	9
2289 Roads	- Br Bridge 11 MTO(4-73) - 15th SR	Solid Slab	1900	75	0	116	\$16,115	\$16,115	\$0	\$700,00	0 0	5	5	Average	Possible	Major	Н	3	1968	10	1970	6 2017	2134	1				40	2006	2031	2106	5 15
	- Br Bridge 12 MTO(4-76) - 6th Line	Bowstring Arch	1910	75	0	106	\$20,256	\$20,256	\$0	\$700,00	0 0	4	4	Poor	Likely	Major	Н	3	1978	10	198	6 2017	2124	1				30	2009	2027	2102	2 11
2480 Roads	- Br Bridge 13 MTO(4-75) - 6th Line	Bowstring Arch	1910	75	0	106	\$15,360	\$15,360	\$0	\$650,00	0 0	4	4	Poor	Likely	Major	Н	3	1978	10	198	6 2017	2124	1				30	2009	2029	2104	4 13
2481 Roads	- Br Bridge 14 MTO(4-74) - 6th Line	Rigid Frame, Vertical Legs	2000	75	59	16	\$431,256	\$92,001	\$339,255	\$510,00	0 8		8	Good	Unlikely	Major	M	2	2068	10	207	6 2076	2152	60				0	2076	2076	2151	1 60
2297 Roads	- Br Bridge 15 MTO(4-71) - 7th Line	Solid Slab	1900	75	0	116	\$16,548	\$16,548	\$0	\$600,00	0	2	2	Very Poor	Almost Certain	Major	E	4	1968	10	1970	6 2017	2134	1				10	1984	2017	2092	2 1
2482 Roads	- Br Bridge 16 MTO(4-69) - 7th Line	Rigid Frame, Vertical Legs	1988	75	47	28	\$303,072	\$113,147	\$189,925	\$480,00	0 6	7	7	Good	Unlikely	Major	M	2	2056	10	206-	4 2064	2140	48				5	2068	2068	2143	3 52
2483 Roads	- Br Bridge 17 MTO(4-70) - 20th SR	Solid Slab	1900	75	0	116	\$15,169	\$15,169	\$0	\$100,00	0 0	4	4	Poor	Likely	Major	Н	3	1968	10	1970	6 2017	2134	1				30	1999	2017	2092	2 1
2290 Roads	- Br Bridge 18 MTO(4-50) - 25th SR	Rigid Frame, Vertical Legs	2007	75	66	9	\$340,527	\$40,863	\$299,664	\$340,52	7 9		9	Very Good	Rare	Major	M	2	2075	10	208	3 2083	2159	67				0	2083	2083	2158	B 67
2301 Roads	- Br Bridge 19 MTO(4-49) - 6th Line	Rigid Frame, Vertical Legs	2002	75	61	14	\$145,291	\$27,121	\$118,170	\$163,23	0 8		8	Good	Unlikely	Major	M	2	2070	10	207	8 2078	2154	62				0	2078	2078	2153	3 62
	- Br Bridge 2 MTO(4-105) - 7th Line	Solid Slab	1900	75	0	116	\$7,762	\$7,762	\$0	\$450,00	0 0	5	5	Average	Possible	Major	Н	3	1968	10	1970	6 2017	2134	1				40	2006	2023	2098	8 7
2484 Roads	- Br Bridge 20 MTO(4-78) - 4th Line	Multi-Plate Culverts	1980	75	39	36	\$56,370	\$27,058	\$29,312	\$150,00	0 5	7	7	Good	Unlikely	Major	M	2	2048	10	205	6 2056	2132	40				10	2064	2026	2101	1 10
2293 Roads	- Br Bridge 3 MTO(4-104) - 8th Line	T-Beam	1920	75	0	96	\$25,058	\$25,058	\$0	\$257,00	0 0	6	6	Average	Possible	Major	Н	3	1988	10	199	6 2017	2114	1	\$105,000	2023	40	50	2063	2063	2138	B 47
2294 Roads	- Br Bridge 4 MTO(4-103) - 9th Line	Arch Culvert	1995	75	54	21	\$161,595	\$45,247	\$116,348	\$210,00	0 7		7	Good	Unlikely	Major	M	2	2063	10	207	1 2071	2147	55				0	2071	2071	2146	55
2302 Roads	- Br Bridge 5 MTO(4-155) - Station St / Mill St	Box Beams of Girders	1980	75	39	36	\$526,120	\$252,538	\$273,582	\$1,400,00	0 5	7	7	Good	Unlikely	Major	M	2	2048	10	205	6 2056	2132	40	\$137,800	2021	40	10	2061	2061	2136	6 45
2292 Roads	- Br Bridge 6 MTO(4-101) - 10th Line	I-beam or Girders	1968	75	27	48	\$355,960	\$227,814	\$128,146	\$2,200,00	0 4		4	Poor	Likely	Major	Н	3	2036	10	204	4 2036	2111	20	\$260,000	2019	40	0	2059	2059	2134	4 43
	- Br Bridge 7 MTO(4-102) - 5th SR	Rigid Frame, Vertical Legs	1991	75	50	25	\$453,778	\$151,259	\$302,519	\$620,00	0 7		7	Good	Unlikely	Major	M	2	2059	10	206	7 2067	2143	51				0	2067	2067	2142	2 51
2295 Roads	- Br Bridge 8 MTO(4-66) - 9th Line	Rigid Frame, Vertical Legs	1993	75	52	23	\$465,186	\$142,657	\$322,529	\$620,00	0 7		7	Good	Unlikely	Major	M	2	2061	10	2069	9 2069	2145	53				0	2069	2069	2144	4 53
2298 Roads	- Br Bridge 9 MTO(4-65) ** - 8th Line	I-beam or Girders	2008	75	67	8	\$903,765	\$96,402	\$807,363	\$903,76	5 9		9	Very Good	Rare	Major	M	2	2076	10	208-	4 2084	2160	68				0	2084	2084	2159	9 68

American Reads - Read : Flund Asset Map Lin	Incline Inventory All Bullype Asset Name - Hands	Pram	To .	Classification	Enface Material	7990	Longth (m)	Matte-jed	Becare India materia (60) Tea	at Durid	Bensining As	Materia Cost	2015 decomplain of Americans o Zyalem	2015 Not Book Value System	Replacement Contillection	Condition East On United Life 1	ndition Condition nom Used for Soldysia	Asset Condition (No per Princity Kating)	Probability of Februs (Based on Condition of Expended Condition)	Consequence of Fallers	Fish of Yahu of Falure Falure	Year Replacement Control to due to Control to minimum Control to practices	Residuated Law with of Service Prince Register Van	Current States	Year Leveles of Service accounts Year Eastern Selected State	Revised Revised Remaining Duelof Life	Proposed Tea Schabilla Sun Cost Schal	Series d Liberal distribution of the least o	Expected Levels of Barvice % Barvice % Condition Letter than page 150	Revised Levels Service Replacement Year	Tear Explanement Applying Risk Store - or Staff Overvide	a of Service - Too yet Resed on Ess Subsequent Replacemen 1 Year	embed levels I	Ravise Revalue Deetal L
3512 GMS 21	Books : Road SITH LINE Sum Meavy ST to SACTION SIX LINE SECTION SIX LINE SIX SACTION SIX LINE SIX SACTION SIX LINE SACTION	SOTH SCENOR	STAUME DISTA SECREMO MONO	Noted Noted	nijhat Nijhat		238,884 2861.81 1882.01	4 ,	1118L1 201	22 25	10 1	3 M.11 17,803	1700,384 18372.46	367/6.36	\$4,130,278 \$149,268 \$110,867	,		8 Good	Unitedy	Molecule	M 2	2022	10	201	2038 2024 2029 2044		\$4,000		aspected for	202	2034	2030		
2070	RUAN SCHOOL STANDARD SON DAS BADDS - BADDS STANDARD SO BADDS - BADDS SCHOOL STANDARD SON SON SACTION SON DOES CONTROL STANDARD SON BADDS - BADDS CONTROL STANDARD SON STANDARD SON DAY OF COLUMN STANDARD SON STANDARD SON STANDARD SON STANDARD SON SACTION SACTI	CTH LINE	COUNTY KOAD 33	tural tural	nunat nunat		1884) 181931		9116.86 20 7807.32 20	200 20 196 23		8 MAG	3 77,288 3 66,179	20014.00	\$101,607			1 American	Position Position	Malesia	M 2	2016	19	2008	2013 2018 2017 2017 2018				20	202	2010	2036		
2879	Section Sales to difficulty Roads: 2014 SIDERSON South Sith Road Sales to 5th Line (County Rd Section 52) Roads: Road SITH SIDERSON South Fith Section 5 to 5th Line Roads: Roads Sales to 5th Line Roads:	STH LINE	(COUNTY ROAD (COUNTY ROAD (27)	tural tural	nghat nghat		1259.81	,	1879.86 20	30 15		3 21,00	SISTERI	38301.44	\$100,761		7	7 Good	Unitedy	Molecula	M 3	2019	10	2021	2036 2021 2021 2021				4	302	2021	200		-
2375 4367 23	MADEL MA	ETH LINE AMARANTH - SEAST LUTHER TOWNLINE COUNTY BOAG		tural	nyhat		111621	,	KH2 38 20 KU7 78 201	10 10	10 10	8 83,70 80,004	63848.04 6,220.9	27623.62 387,063	\$100,000	3 10	4 16 1	8 Peer	Likely Xare	Molecule	H 3	3007	13	2019	2020 2020 2020 2020 2020	13				203	2018	2000		13
2000	Maad 20th SR Sum Akm E. of 90 Section Line to 8th Line Model - Maad 20th SR Sum 9th Line to	LINE	Enkine of the	Barol Barol	eghat eghat		261.76	,	1102.18 20 1182.18 20	30 13 30 13 30 13		3 4421	2071343	22499-34	\$100,001		, , , , , , , , , , , , , , , , , , ,	F Good	Unitedy	Molecule	M 3	2019	10	201	2016 2021 2021 2021				50 5 20	202	2000	2007		-
2010	Section James E. of Will-Line Section S. and Lines Sectionary Rel Read SCO State Section (County Rel Read SCO States Not of County Rel Reads SCO States SCO Scott Scott Scott Read Scott Scott Scott Scot	IND LINE (COUNTY ROA (I)	MONO_	tural tural	nonat nonat		526.53 730.23		3798.18 30	001 13 001 13		8 30,00	38807.81 37811.22	2700.8	\$10,722		,	E Amage 7 Good	Passille	Malesse	M 3	2013	10	2016	2017 2017 2012 2012				30	302	2021	208		_
4130	Road 1th Siderood from 12th Un- Section to GV Anacosth Townline	HEADT LUTHER	TOWNUME SETH LINE MONO- MANUATH TOWNUME (COUNTY ROAD	Burst Burst	eghat eghat		100.0		7896.4 20	230 23	13 3	11238.43	\$1,496	39,736	\$105,77	-		6 Pass 8 Yes Good	Kare	Malesse	H 3	2013	10	2015	2017 2012 2027 2022	11				202	2000	200		
2000	NAME TO SE FOOD. Then It of Zood Section in the Americanth' / Among Ya. Names: NAME AND SE FOOD AND LINE OF SECTION THAN IT OF ZOOD LINE OF SECTION THAN IT OF ZOOD AND LINE OF SECTION CONTROL OF THE OP-	IND LINE	STANE OF THE	Sural Sural	nighat nighat		794.60		207.76 20 208.82 20	201 23	2 1	3 41,00	3636.27	1000.00	\$96,007			B Good	Unitedy	Molecula	W 2	2014	10	2016	2017 2012 2017 2018				40	300	3100	2037		
2040	Road MS Line from County Rd 35 Section to John N. of County Rd 35 Book: Road WH LINE Storn County Rd Section 209 to 105 SK	COUNTY BOAD COUNTY BOAD 208	10	tural	nghat nghat		441.41	,	2001.00 20	990 23 221 23		8 21,10	\$ 21,000	\$18,70	\$31,00 \$34,00		,	S Good	Unitedy	Molecula	M 3	3003	13	2004	2043 2017 2039 2034					202	2134	2030		-
4147 3314	Model: National Figure Bios Culvert Section to Machine Mar Books: 17th United Stone County Rd Roads: 17th United Stone County Rd Roads: 20th to 12th on North of Section 5 County Road 10th Roads: 20th Machine 1-Astro	COUNTY ROAD 209 COUNTY ROAD 209 K of 1.4 km n. of 217H SIDEROR	STATION STREET STATION STREET	tural	nunat nunat		1007		6282 20 880.78 20	224 25	13 2	\$ 10,10	\$1,230	\$7,987 6736.66	\$13,740			B Yey Good B Yey Good	Xan	Molecula	k 1	2025	13	2027	2042 2027 2028 2028					202	2027	200		-
2000	Roads - MARKARTH / EAST LUTHER Road Ts from 1 days N of 20th M Section to 1 days N of 20th M Roads - MARKARTH / EAST LUTHER Road Ts from 20th Nt to 1 days to Section of 20th Nt NK	R DANN N. of SOTH SIDERON	1.4 km M. of 0.20TH MORROAD 1.4 km M. of 0.20TH MORROAD 0.20TH MORROAD	tural	nunat nunat		1299.80		4 20 4 20	00 E		3 2,66	8 3,467		Dayment Dayment			S Amiga	Possitie	Malauta	и ј	3016	13	2018	2018	1				301	2016	2034		- 1
3510	Section 1. Skin N of 20th SK Roads - Secarately / Mono Yufrum Road 20th SK to 25km 1 of 20th	3003.58	1.8 km N. of 2019 MORROAD 0.25 (S. of 2019	tural tural	equat equat		1800 68X.11		10000 20 2029.80 20	20 25		3 41,70	1711848	29679-83	\$144,000			A Amaga	Possilie Possilie	Molecula	M 3	2021	10	2020	203 203 203 203 203	7				202	2018	200		
2675 8205	BACISTO AND ADMINISTRATION OF THE FORM MADE IN THE STATE OF THE STATE	STH SOURCE SOTH SOURCE SOTH SOURCE	DI BOTH MORROAD DI 20TH MORROAD DI 20TH MORROAD	tusi tusi	nghat nghat		276.00		1881.36 20 1884.36 20	301 23 301 23 301 23		S 17,60 S 20,10	12326.36 1206.38	2309.21 8377.6 2080-43	\$47,601 \$31,605	1 4 10 malest 100 D 335	4	7 Good 6 Avelage	Distaly	Molecule	M 2	2013	10	2015	2017 2017 2022	4			4	302	3021	2037		_
1218	RUM TOWNERS from 25th SK to Section 50th SK	SOTH SOURCE	D SOTH WOLKSAD	tural tural	esphalt esphalt		3060 3066	,	1890 30 21332 30	230 23		\$ 210,00	\$80,00	\$106,767	\$245,000 \$245,000	-	,	S Amage	Passible	Molecula	M 3	3021	10	2023	2018 2023 2027 2028	,				302	2023	2008		
2909	MARCH POLICY OF THE TANK THE T	EMPLIWOOD ORM	END OF CIDAR PLACE END OF DERKYWOOD DRIVE	Sens Orban	nghat Nghat		295.0		179.4 29	PS 25		3 10,00	3 10,700		\$33,672 \$34,978			6 Amage	Possile	Molecula	M 3	2009	10	2011	2017 2018 2017 2012	,			30	302	3021	208		_
2018 4217 2018	Section Size to Milital Model: Road Copp Road From Milital Section Side-road to end of culdeca Road: Road Sound Milital to Section Milital to Section Milital to	SOTH UNK	MILL STREET End of Culdings MIRAL STREET	Seno Critan Seno Critan	nunat nunat		384.26		203628 20 2006.86 20 544.88 29	221 25	14 1	27699.34 27699.34	\$ 21,608 \$2,613 \$ 3,208	\$30,186	\$38,903 \$46,741 \$7,266			8 Yey Good 8 Yey Good 7 Good	Kare	Maleura Maleura Maleura	6 1 6 1	2026	10	2017	2017 2043 2028 2017	10			0 40	300	2003	200		9
2636	Roads - Road Devoking Howe Sun Section With SK to 300h SK Roads - Road Stant Are Som Simes St to Section and Roads -	SOTH SEERCH	D SOTH MIDEROAD	teno tetan	nonat		25.61	,	177.8 28	35 25 96 25	4 3	3 36,33	30328.34	٠	\$11,277		,	A Amaga	Proside	Molecula	M 2	3013 1996	10	2014	2013 2017 2018 2017	,			20	303	2016	2034		3
2612	Boction and Books Road Dans, Are from Beier, M. N. Boction Sweety M. Books Road MONEY STREET from Daney Boction M. D. End. Roads	AMES STREET	HANGEY STREET	ortan ortan	eghat eghat	H	72.35 66.27		206.1 20 207.62 20	90 25 90 25		3 230	3 2,560		\$1,760 \$1,362		7	7 Good	Dilley Dilley	Molecus	M 2	1996	10	1996	2049 2017 2049 2017 2049			F	40	300	3033	2037		_
2616	Roads - Road WENRY STREET from SMISS SHITTER TO MAKE SE Roads - PORNETT LINE from Road Wenley Drive to County Rd Section 50	MULTIPLET	MOUNT STREET MOUNT STREET COUNTY ROAD 10	Orban Seno Orban	nyhat nyhat		95.83		20 20 20 20 20 214 18 20	25 900 25	4 2	3 3,44	3 3,500 3 3,600		\$11,804 \$7,346 \$6,302		,	7 Oast 8 Amage	Unitely Possible	Molecule Molecule	M 3	7996 2000	10	1998	2017 2017 2017 2017			F	40	302	2022 2022 1 2021	207	1	-
4218 2647	Roods - Registers III - NAJA Brasanski, Marco Townline Section to Crape Rd Roods - Roods - Rooms III Store Store Ave N Section End of James III Roods - Roods - Room Church III to	CMASC NONE	Ansarath/Mos a Tawribse END OF JAMES E STREET	tere Orban Iorban	nghat nghat		257.00		1807.38 39	221 25		42333.81 3 8,60	32,480	\$37,646	\$17,000		,	B Yely Good Z Good	Name Drillarly	Malesse	L 1	2036	10	2028	2043 2028 2049 2047 2049	13	34,000 20			303	2028	200		9
2610	Section MISS C Model: Road SWAN SYSTET from David S Section to Henry M Road: Moplewood Dr Stom Road Cherrywood Pion to Trans Mooding Pion to	CHERON STREET CHEROYWOOD PLACE	HENRY STREET WOODLAND ROAD STREET	ordan Johan Janu Urban	nophalt nophalt		275.50		20 AND 20 1187.65 20 1	00 25 00 25		3 436 3 1436	5 5,007 5 5,007		\$16,67	•	,	Cont Cont Among	Distance Distance Franchis	Molecus Molecus	u 2	7996 7996 2009	10	1996	2017 2017 2017 2017 2017			L	40	302	3000	2037		
2030	Rooks - Volphwood Dr Soon Rooks - Volphwood Dr Soon of Section - Volphwood Dr Rooks - Volphwood Rooks - Volphwood Section Ind -	MODELAND MOND MOND MOND MOND MOND MODELAND	DENAS PLACE	beno Orban beno Orban	esphalt esphalt		111.00		794.28 29	20		1 110	3 600		\$10,000	-		Amaga Amaga	Positio Positio	Molecula	W 2	2009	10	2011	2017 2018 2017 2018	-			20	202	2021	208		_
2628 2628	Risks Cedar Falce to Sphanwood Sections Rd Roads - MERCHACOCO CRINY from Fisad Splanwood Rd to Sections Clerrywood Palar Roads - Roads -	CIDIA PLACE W. INNWOCE ROAD CMASO ROAD	DENNINGOD BOADE DENNINGOD RACE HUGHSON STREET	Sensi Orban Sensi Orban	nighali nighali		287.79 88.87		1186.38 20 833.22 20 2015.48 **	15 190 25	4 3	3 444	3 440	530.77	\$10,818 \$7,110 \$62 ***			Amage Amage	Possilie Possilie Name	Molecule Molecule	w 2	2009 2009 2008	10	2011	2017 2017 2017 2013	1			30 30	302	3031	208		
2025	Road County Rd 12 to Homel! Section Sace Roads - Road Mill St Som Charch St to Section Sould St. Roads -	COUNTY ROAD	HORNITT LANE	Seno-Cirkan Cirkan	eghat eghat		229.23		1288.32 29	100 23		8 8/9	3 8126		\$16,738		2	E Amage	Positio	Molesce	M 3	2000	10	2000	2045 2017 2049 2017				30	302	2021	200	1	_
2010	TAILD MIS SE From Doubl SE So Section Edition SE ROOS: RULD MILL STREET From SECTION SECTION SECTION IN HORY SE ROOS: WORSP AMMANATH RULD STOWNING FOR AREA SET SECTION SET SO HIGHWAY SET	MATCH STRE	THENEY STREET	orkan orkan	nighal Nighal	H	143.24 66.22		803.44 29 387.30 29	90 25 90 25		1 233	3 4,023 3 2,339	-	\$11,379		7	7 Good 7 Good	Dillary Dillary	Malesse	M 3	1996 1996	10	1996	2049 2017 2049 2017 2017			F	40	300	2003	2027		
3046	Road - Road feder Court from Peter SI Section to end of Peter Court Road: - PUTR STREET from Sussel Road Hill Rd to Peter SI / Peter Section Court	PETER STREET PERENT HELL PEDED	END OF PETER COURT PETER STREET / PETER COURT	ortan ortan	nyhat nyhat		168.41	,	200 200 200 200 200 200 200 200 200 200	25 25 25 25 25		3 10,86	79034	3830.13	\$13,676 \$13,676	3		E Cook	Criticity Criticity Criticity	Molecule Molecule	M 3	2017	10	2019	2017 2016 2019 2019 2019			F	20	302	2021	207	1	-
2625	Model: Road PUTER STREET from MI John Section III to Mead Hill Rid Roads: RUSSEL HILL ROAD from Road Poles III / Poles Court to Section Poles III / Poles Court Roads Roads Road RUSSEL HILL ROAD from MI	PETER STREET	PUTER STREET	Johan Johan	nonat		125.50	,	881.37 20 9185.16 20	204 23 204 23		3 7,89 3 3 28,52	19019-66	2631.66	\$10,073 \$36,652			A Coul	Unitedy	Molecule	M 2	2017	10	2019	2019 2019 2019 2019	3			20	300	2000	2007		_
2618	BACTION BORNES AND ADMINISTRATION OF THE BACK OF THE B	MD LINE	SHAMON COURT	Eural Sural	nunat nunat		281.27 636.36		200 AND 200 AN	200 23 190 25		3 17,76 3 31,63	3 31,836 23008.49	1009.26	\$12,862 \$62,867			E Cook	Problem Street	Molecule	M 3	2017	10	2008	2019 2017 2017 2019	1			20 20 20	302	3000	2037		
2616	Roads - Road ST JOHN STREET Son Section School St to Read Hell Rd Roads - Roads St for Read Hell Rd Roads - Roads St four 20th Road Sing/Mill St to St John Section Milest	STATION STREET	BUSSEL HUL IT BOAD ST. JOHN STREET	Urban Seno Urban	eghat eghat		180.86 389.26	,	7336.60 30 7586.68 30	200 23 200 23	3 3	3 11,90	7877 ML	3888.87	\$11,249	3		E Cook	Unitally	Molecule	M 3	2017	10	2019	2018 2019 2017 2017	3			20	202	2010	2007		
4518	MAJOR MADON SE From SE, Julie SE SACTION SO PRODE SE SACTION SO PRODE SE MAJOR MAJOR SE FROM SET LINE SE SACTION SEAT SEATON SET LINE SE SACTION SEAT SEATON	O D.S km E. of PETER STREET	PETER STREET PETER STREET MAPLEWOOD THOSE	Sens Ordan	nunat nunat		280.00 536.27	,	1966.83 20 2753.89 20	224 25	13 3	3 17,01	\$13618.06 \$122	3603.76	\$2,6% \$0,80			A Cool	Paradia Unitedy	Maleur	M 2	2025	10	2017	2012 2017 2017 2019 2018					202	2018	200		
2012 4271 11	RALLE WILD-HOLY RE TO SENTEN MARKET WOOD CRIMET MADEL - MODDLAND ROAD SOM RALE MEDISON OF THE MOD IN SENTEN MODEL THE SOM IN THE MODEL SENTEN MODEL THE SOM IN THE SENT SOM IN THE SOM IN THE SENT MODEL - MODEL THE FYEW 20th		SHOWS SHOOD AND SHOWS DOWN	tens Ottos	nunat bawi		402.0	,	2001.4 20	100 21 104 3	3 4	4,000	2,314.7	50,246	\$31,272 \$4,489			d Amoun	Possile	Mess	u 2	2009	10	2011	2017 2017 2018 2018 2019					202	201	2030		
42/0	MARKE THE PARK 20th Section 20th Section Selected to 25th Selected Section Selected to 25th Selected Section 20th Section 20th Section Selected To 20th Selected Sele	STEM SIDERON	D DETH MORROAD DI NOTH MORROAD DI HIGHWAY 23	tural tural	Stavel Stavel		3094.80	, ,	7772.38 20	201 3	, ,	9109.27 9167.2	9109.28 9147.3 3281.78		\$6,169 \$6,167 \$6,262	3		S Amage S Amage	Passide Passide	Mess	M 2	2016	10	2016	2017 2017 2017 2017					2019	2017	2000		_
4376 M	200 Line from County Rd 200 Line from County Rd 200 So 15th MK Roads - Naad 21th Sideward From 10th	COUNTY ROAD	COUNTY HOND 30 SITH MORROAD	Maral Maral	Stavel Stavel		3099.20 3290.3	7	9415.94 201 21633.1 201 9606.86 20		3 4	4,883	2,472.7		\$4,533 \$4,533	10	,	Of Very Good Of Very Good & Average	Xare Xare	Mess Mess Mess	6 1 6 1 M 2	2018 2018 2016	10	2018 2018	2018 2021 2018 2021 2017 2020	2				2019	2018	2021 2021 2020		
4213	Section Size To Will time Roots: Root	STELDE	MARKATH TOWNSIAS COUNTY KOAD 33 STH UNE (COUNTY ROAD	North North	Stavel		189.41	,	9796.28 20 9896.44 20	224 3		4136.33	4136.34 4816.86		\$6.00	3		S Amaga	Possile	Mess	M 3	3076	13	2016	2017 2017 2017 2017	,				2019	2017	2020		_
4579	Section Size to County Rd 12 Roads - Ruad 25th Saleraad From 7th Section Size to 6th Line Roads - Ruad 25th Saleraad From 8th Section Size to 7th Line	RTHLINE	52) 97H UNE 77H UNE	Sural Sural	Stavel Stavel		1788.81	, ,	9419.88 20 2622.81 20 8043.43 20	224 3	1 3	3877.26 1287.42 3862.87	3877 27 5287 43 3802 88		\$1,877 \$1,287 \$1,865	3		S Amage S Amage	Passide Passide	Mess	M 2	2016	10	2016	2017 2020 2017 2017 2017					2019	2017	2000		_
43.79	Mand 27th Sideward From 9th Section Jave To 8th Line Modic - 25th Sideward From Mand Manachill, Rand Valley To Section To 20th Line	STRUME MANAGEMENT MANA	SETH LINE	tural	provet		180831	,	9983.82 20 8188.89 20	226 3		6267.76 3867.66	4267 77 2867 47		5000	-		S Amage	Passille Passille	Mess	u ;	2016	10	2016	2023 2017 2023 2017					2019	2017	200		_
4210	Model: Model: Total Stateward From County Section Rd 31 To 2nd Gine Model: Mode	ETH LINE Sy (COUNTY NOA SZ)	2ND LINE D 4TH LINE 8th Line	tural tural	Sovel Sovel		1252.61	7	NISSAN 20 NISSAN 20 10200 20	224 3		3731.88 3808.04	3721.86 3808.06	1240	\$1,700 \$1,800			A Amage	Positie Positie	Mess	M 3	3016 3016 3014	10	2016	2017 2017 2017 2017					2019	2017	2000		
OM 11	STANDARD FROM JIND SIN TO MOND-AMARANY TOWNLASE IN SURROMO PROM 6TH AND TO COUNTY NO 12 IN SURROMO PROM COUNTY NO 12 IN SURROMO PROM COUNTY NO 12 IN SURROMO PROM COUNTY NO 11 AND 2ND	County Rd 12	ETH UNE	Noral Noral	Stavel Stavel		1421.21 1294.61	,	9822 AT 201 9081 30 201		3 6	1,000	90 MG 20	3417	\$1,376 \$1,786	10		O'Uniy Good	Kare	Mess	L 1	2018	10	2018	2018 2021 2018 2021 2021	2				2079	2018	2021		2
GM 11	200 200 25 SCHROAD FROM 250 COUNTY NO 13 TO 6TH UNI ROADS: ROAD 2105 Saleward From 20th Section later to 455 Une	EL CTH LINE		Bural Bural	Stavet Stavet		1104.00	,	0018.08 201 0018.08 201 0712.43 20	14 3	3 6	1,793.0	812 H	3887 3883	\$1,786 \$1,786	10		O'Very Good O'Very Good	Kare Kare Facable	Mess	k 1	2018 2018 2016	10	2018 2018 2018	2018 2021 2018 2021 2017 2020	2				2019	2018	2021		3
430	Raines - Raine 20th Siderward Proce 6th Section Jan To County Rd 32 Maries - Raines	THUM	STH LINE	Sural Sural	Stavel Stavel		1778-74	,	2007.32 20	226 3		2764.4 5163.48	2764.8 5763.69		\$1,766 \$1,766			A Amaga	Passille Passille	Mess	M 2	2016	10	2016	2017 2017 2017 2017 2020					2019	2017	2000		
4208 4208	Mand 25th Sideward From 9th Section Line To 8th Line Books - 25th Sideward From Mand Senanth (Sciend Volley To Section To 10th Line	STIKLINE AMAMANTH - EAST LLTHER TOWNLINE	ETH UNE	Sural Sural	Sravel Sravel		189.81	,	N775.86 30	224 3		612E43	4735.44 3896.54		\$1.700			S Amage	Passille Passille	Mess	M 2	2016	13	2016	2017 2017 2017 2017	1				2019	2017	200		
4213	Raad 2nd Line From 15th Section Solevand to 20th Sidercad Made: Raad 2nd Line From 20th Section Solevand to 25th Sidercad Made: Raad 2nd Line From 25th	STAN SERROR	D JOTH MORROAD D JITH MORROAD	tural tural	sowi	H	3061.61	, ,	1681-62 20 1683-8 20 21861-8 20	22 3	2 1	3577.34	\$1,780	\$1,790 \$1,796	EC100	,		7 Good	Dilley Dilley	Mear	. 1	2017	10	2017	2017 2017 2017 2017 2017			F		2010	2017	2020		_
077 H	Section Selevated to 100% Selevated Dad Dave From 10% SR to County Mil 30 May Dave From Country in 20% Day 10% Selevation Day 10% Selevation Miles: Fixed Dad Dave From North of Section Maybes calcul to 10% SR 50005:	COUNTY NO.		tural tural	School School		2017.0 2017.0	,	21541.8 201 21543 201 21543 201 7132.81 20	1	3 6	4,064.7 4,064.7			\$7.160 \$6.000 \$6.000	-		7 Good Streey Good Streey Good S Average	San San San	Mess Mess Mess	4 1 1 4 1 1 M 2	2017 2018 2018 2018	19 19 19 19	2018 2018 2018	2017 2018 2018 2019 2017 2017	2	H	F		201	2017	2021		-1
4576 4576	Ruad 80th Salevard From 20th Section Jave 76 8th Uses Roads: Ruad 80th Salevard From 6th Section Jave 7c County 8d 11	SOTH UNI	STHUME COUNTY HOME ST	tural Bural	School School		187.0	4	20 EXD4.28 20	1		61003 638743	2100 E		\$10,710 \$4,101 \$4,388			Amage Amage	Possile Possile	Mess	M 3	2016	10	2016	2017 2017 2017 2017 2017	,		F	- 0	2079	2017	2000		=
4200	NAME TO STATE OF THE STATE OF T	STRINE	STHUME (COUNTY BOAD 12) 4TH UME	tural tural	School School	H	1221.81		7337.82 30 0078.44 30 8087.84 30	224 3		3811.70	3611.71 4864.7		\$1.612 \$4.900	,		Amaga Amaga	Positio	Mess	ш 3	3016 3016 3016	10	2016	2023 2017 2023 2017 2023					2079	2017	2000		_
6179 6179	Raad 60th Sideward From 90h Section Line 7u 8th Line Book: 90th Sideward From Raad Security/Stand Volley To Section to 20th Line	MENANCE MANAGER MAT LUTHER TOWNLOSS	STHUME STHUME	purid Burid Burid	privet Stavet		242134 242134		8627.86 20 8627.86 20 8688.88 20	224 3		5984.17 6148.50 3878.27	6145.31 2875.28		\$1.100 \$1.100	3		Amaga Amaga	Fundin Fundin	Mess	M 2	2016 2016 2016	10	2016	2017 2017 2017 2017 2017					2019	2017	2000		
4216	NAME OF THE COLUMN THREE COLUMN	NTH MORROAC	COUNTY ROAD	Sural Sural	Scare! Scare!	H	1272.10	,	1387.17 20	22 4	3 1	3891.20	\$760.14 \$1,786	SUM.	\$1,760 \$7,142			A Amage 7 Good	Proble	Mess	w 2	2016	10	2016	2027 2027 2027 2027			F		201	2017	2020		
4217 GRD 2788 27 GRT M	36-TAIN 200 SERVING ETH UNE FROM 13 SEC SECURION TO 20 SECURION ES LINE From 200 SE LA ES LINE FROM 25TH SE TO ETH UNE FROM 25TH SE TO ETH UNE FROM 25TH SE TO	D 159-3K	DI ZITH WOLKOAD	tust	Schwel Schwel Schwel		2474	,	1397.83 201 21382 201 1382.11 201 17218 201	14 3	3 6 3 6	7,683.0	1,806.5 0 1,371.7	83,872	\$0.310 \$0.310 \$0.600	100		7 Good Offery Good Offery Good Offery Gor	Kare Kare	Mesor	L 1	2018	10	2017 2018 2018 2018	2017 2018 2021 2018 2021 2018 2021	2	H	F		2011 2011 2011	2018 2018 2018 2019	2021 2021 2021		_1 _2 _2 _2
678 H	State from 20th Still Edition of the Mighaely 878 State from 20th Still Edition Still	COUNTY ROAD	DINGHWAY 88	tural tural	Schell Schell		2004.11 2004.11	,	1603.16 201 1603.16 20	14 3 171 3	3 6	2,767.7	\$1,878.70 \$1,804	\$1,804 \$1,804	\$174 \$124			2 Good	Kate Unitedy Finance	Mess Mess Mess	L 1	2018 2017 2017		2018 2017	2018 2021 2029 2029 2017 2029 2017		H			2011	2018	2020	1	1
40/0	Roads - Raad NS Sideroad From 4th Line Section No County Rd 11 Roads - Road NS Sideroad From 6th Line Section No County Rd 12	etkler	COUNTY NONE ST COUNTY NONE ST ST ST ST ST ST ST ST ST ST ST ST ST	Sural Sural	powi		2581.86 2279.24	, ,	2733.62 20 0733.62 20	21 2		6332-04 5780-36	4532-05 4532-05		\$4,079 \$4,002 \$3,791	3		Amiga Amiga	Positie Positie	Mess	M 3	2016	10	2016	2017 2017 2017 2017			F		2019	2017	200	1	
4200	Road: Ruad Sth Sidercoot From 7th Line Section To 6th Line Road: Ruad Sth Sidercoot From 8th Line Section To 7th Line Roads:	PTHLDE	STH LINE	Rand Rand	School School		1704.31	,	2211.71 30 MM&41 30	214 3		2767.28	81962 376729		\$1,766 \$1,767	3		S Amingo S Amingo	Fundin	Mess	M 3	2016	10	2016	2027 2027 2027 2027					2079	2017	2000		_
4230	Section for 8th case Modic -	COUNTY SOAD	D ZOTH WOLKLAD		School School		18911	,	N794.05 20 NASLAN 20 NASLAN 20	21 1		6138.37 6308.28 2322.61	\$138.38 \$308.29 \$1,341	81,941	\$6,000 \$6,000	3		S Amage S Amage 7 Good	Positio Positio Distriy	Mess	W 2	2016	19	2016	2017 2017 2017 2017	1		F		2079 2079 2071	2017	2000		_
au au	Roads - Road MS time - 5th Sideroad to Section County Rd 32 Roads - 85 time - North of Road Newschip Office to 19th Section Sideroad	STH MORROAD DE NIN N. of COUNTY MORE 30	COUNTY NOAD		Scare!		3050.44 2628.81	,	1383.68 20 808.68 20	21 3	2 1	2295.24 2296.78	\$00	\$0.66	\$4,007 \$4,000			7 Gast	Dillery Dillery	Mess	. 1	2017	10	2017	2017 2017 2017 2017 2017	,	H			3011	2017	2000	1	
35.25 35.25	Made: Naud MS Une from 20th SR to Section 20th SR. Road: Naud MS Une from 20th SR to Section 20th SR Naud MS Une from 20th SR to Section 20th SR Naud: Naud MS Une from 30th SR to Section 30th SR to Section 30th SR	STAN RESERVE	D SITH MORROAD DISCHMANNERS DISCHMANNERS	tural tural	School School	H	306844 316881	11 2	2758.80 20 27688.1 20 8383.38 20			S 10,40	3 10,400		\$10,000			Amaga Amaga	Positio Positio	Mess	M 3	2014 2014	10	2014 2014	2017 2017 2022 2017 2022			F	20	301	2017	2020		_
6226	Road: Road 25 Line - 15th Sideroad to Section 20th Sideroad Road: Road 25 Line - 20th Sideroad to Section 20th Sideroad	STH SCHOOL	D HISHWAY ST D SOTH MORROAD D SOTH MORROAD	tural	proteil School		22220 22220	,	17842H 20 278843 20			3 404 2013 2013	\$1,212 \$1,212	\$1,212	\$4,000 \$4,000 \$4,000			2 Cook	Possile United	Mess Mess	1 1	2014 2017 2017	10	2017	2017 2017 2017 2017	,		F		201	2017	2020		
4239 21 4237	Madel: Nadel 755 Uner 2505 Scienced to Nadel 755 Uner 2505 Scienced to Nadel N	STH SERROR	DIRECTIVI SIDERICADI DIRECTIVI SIDERICADI COUNTY ROAD	tural tural	Scare! Scare!	H	111731	,	7622.88 30	221 2		2008.44 873.88	\$1,204	\$1,204 \$607	\$6,817 \$1,748	,		7 Good	Distanty Distanty	Mea	L 1	2017	10	2017	2027 2027 2027 2027			F		201	2017	2020		
an an	Ruad 7th Line - County Rd 121s Section 11th Indexed Road Ruad 7th Line - County Rd 129 to		D STH WOLKSAD	tural tural	School School	H	3060.11 3071.61	, ,	016736 20 1601.06 20	21 3	2 1	2005.00	\$1,200 \$1,000	\$1,000 \$1,000	\$4,907 \$4,771 \$4,771			7 Ours	Dillery Dillery	Mean		2007 2007	10	2017	2027 2027 2027 2027 2027		H	ŀ		201	2017	2000		
4215	Section Stit Makenade Roads - 73 Line From 2579 Road ROSENAD IN SETT Section SCRENAD IN SETT Section SCRENAD IN SETT Roads RS Line - 25th Scienced to Section 2015 Scienced to Roads RS Line - 25th Scienced to Section 2015 Scienced Model St.	SITH SEERON	D SOTH MORROAD	tural tural	Sovel Sovel		3054.04	,	4 20 1379.28 20		9 4	3 1024 284446	3 10,248 \$1,422	\$1,623	51,500 31,600			-	Distany	Mess	. ,	3017	10	2017	2017	,		ŀ		201	2017	2000	1	
	Modes: Naud Bit One - 1th Sideroad Is Section County Mil 20 Modes: Naud Bit One - County Mil 20 Is Section - 10th Sideroad Modes: Naud Bit One - County Mil 2016 Section - 1th Sideroad Section - 1th Sideroad Modes	STH SIDEROAD	STEM SIGNADAD	tural tural	Scare!		3288.4	,	27678.8 30 7607.63 30	21 3	2 1	2876.00	\$1,636	\$1,638 \$1,637	\$6,764 \$6,761	-		7 000	Dillery Dillery	Mea	L 1	2017	10	2017	2027 2027 2027 2029	,				2011	2017	2000		_
4236	Road 8th Line From 20th Section Indexed to 19th School	SOTH SEERON	STH SIDERDAD DIGHTH MIDERDAD DIGHTH MIDERDAD	Russi Russi	School School	H	3137.81 3073.74 3063.61	, ,	1964.98 20 1930.30 20	224 3		203.00 9090.00	\$1,60 600.00	\$1,661	20.00			F Cont S Amongo S Amongo	Distaly Fundin	Minor Minor	ь 1 м з м з	2017 2016 2016	10	2012	2017 2017 2017 2017		H	ŀ		201	2017	2000		
6239 6238 6238 6338	Read 85 Use From 2015 Section Indexed to 800 Volume	SOTH SECRE	D HIGHWAY RS	Sural Sural	Britani Britani	Ħ	112842	,	7785.36 30	201		1076.6E	327647		\$1,277		-	-	Possile	Mess	м 2	2016	10	2016	2017	,		F		2019	2017	2000	1	_
6238 6238 6238 6338 6330 2328	Road: Road RS Use From 2015 Incitor Indeved 5-5 809 Sideroad Road: Road RS Use From ICES Incitor Indeved 5-6 Highway RS Roads:	NO-34	Country No 10		. 1		- 1	- 1	- 1			1			3196			Amage	Position	Meur	м 2	2009	10	2009	2017	١.	1 1	1	20	2011	2017	3930		_
4238 4238 4238 4238 4238 4238 4238 4238	Raad RS con-From SIGN Section Signal Residency FS Roads Critic Unit Sound The Road SIGNAD SIGNAD SIGNAD SIGNAD SANSON SIGNAD SIGNAD SIGNAD SIGNAD Roads Critic Unit Sound Signad Roads SIGNAD SIGNAD SIGNAD SIGNAD Roads SIGNAD SIGNAD SIGNAD Roads Road RS con-from 200 SIGNA Section SIGNAD SIGNAD SIGNAD Roads Road RS con-from 200 SIGNA SIGNAD SIGNA	annu anneanu	COMING NO TO	tuni	Sout Sout		297.60		7808.88 20	213		3 10,07	8 10,477		\$10,677	-			Frenchis	Mass	u ,	2014	10	2014	2022	,		+	20	301	2017	2000	-	
6228 6228 6228 6330 6330 6330 6330 2118 8321 8321 8321 8321 8321	Road (B) Kure From RDD (B) Road-Control To Mightury RDD (B) Road-Control To Mightury RDD (B) Road-Control RDD (B) COUNTY RDD (B) Road-B) R	SOTH SIGNAL SITH SIGNAL SOTH SIGNAL SOTH SIGNAL	D HIGHWAY 88 COUNTY ROAD	Maral Maral Maral Maral	Sravel Sravel Sravel Sravel		2083.99		7909.88 20 7031.88 20	213 3	a 4	3 10,00 3 3,78	3 10,460 3 3,784 2,478.8	Davi	\$10,660 \$3,784 \$6,366	0 0		S Average S Average	Fundin Fundin	Mear Mear Mear	M 3	2014 2014 2018	12	2016 2016 2016 2018					20 20 20 4	2011	2017	2000 2000 2000 2001		1 1 2
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200 000	Reach Read Sear Valuation Reach Read Sear Valuation Reach Read Sear Valuation	Side M. Seen Counts for 12 Mile Sent to 48th Sear SCHE Sections! Oh Sizes Seen 12 Mile See Side 2 Side Mile 2 Side SEE SEE Sections! Oh Sizes Seen 12 Mile Mile 12 James See 3 Side SEE Sections!		Grand Grand Grand	3850 e		0 1 12	#0 # #0 #	1379 5 3649	6 600,600 6 5 500,700 6 5 307,600			1 40	nge Positio	Makesia Makesia Makesia		2	2014	20	1 201	2180 2017 2017						2016	2017 2017	200	-
2004 MIN	Real States Real	in the contemporary and the SPET Action of		Grant Grant	2075 d	2 2	27 8 29	807 S S	1 100.00	# 82.80 1 80.00	37	-	1 Au	reaction Process	Name of Street		3	200	20	0 200	2080 2080 2080						2020	2007 2009 2009	200	-
201 401	Reads Read Read Solution Reads Read Read Solution	Chick Street Shi Mile Control fol St STEE Surfaces. On Line Street Shi Mile Control fol St STEE Surfaces. On Line Street Shi Mile Street Shi Mile STEE Street Shi Mile		Grant Grant	302 6		0 1 10	200 8 0	1470 S 4670	#3,01 2 8 94,90 4 8 97,08	3		1 40	reside rese Posside rege Posside	Natural Natural		2	2014	20	200 4 200	3077 3077						201	2017 2017	207	
200 GM	Reach Read Reach Read Reach Read Reach Read Reach Read Reach Read	1994 M. Sam Canera del 18 to lin 18 1051 Suchael 1004 M. 1804 See: 4th See: 1838 Suchael 1004 M. 1804 See: 4th See: 1838 Suchael 1004 M. Shi See: Canera del 11 (1834 Suchael		Grant Grant Grant	300 0 300 0		10 2 175 100 2 1	80 S C	1.00 1 00.00 1.007 NO.L 7.314 NO.L	\$ 60,60 \$ 60,60 \$ 60,60			4 Au	res Positio	Makada Makada Makada		2	186		201	2180					20	202	2017	200	-1 -0 -0
201 GH	Reads Read Read Selection Reads Read Read Selection Reads Read Read Selection Reads Read Read Selection	10.55 10 kinr Count fel 3 150 Melecut 10.58 10 kinr 60 kinr (1000 fefunt) 10.58 30 kinr 70 kinr (1001 fefunt)		Grand Grand Grand	1854 A		100 B 1	201 B	8,301 NULL	8 80,70 8 80,00 8 30,00	-	-	4 Au	nga Pasilia nga Pasilia	Madeste Madeste Madeste		2	1896	-	6 200 6 200	2180 2180					20	2028 2028 2028	2024 2024	208	- U
200 GM	Reals Seal Real Solution Seals Seal Real Solution Seals Seal Real Solution	10.53 St. See Miller 1005 Seefant On 16 County 13 de live (1005 Seefant) Sikine - Jon Sonth of County of 13-13th 16		Grant Grant Grant	1854 A		100 E 1	40 I	1.674 NULL	5 495,641 5 700,666			- 1 Am	nge Positio	Makesia Makesia Makesia	2	2	100		6 200 6 200	2180 2180 2180					20	2028 2028 2028	208 208	200	- u - u
260 KW	Reach Read Bear Solution Reach Read Bear Solution Reach Read Bear Solution	00-line 1-10n M-20n M-1020 before No line 2-20n M-20n M-201 blocken) No line 2-20n M-20n M-201 before)		Grand Grand Grand	3814 A		100 B 10	78 I	1796 NGS. 1478 NGS.	5 60,60 5 60,60			1 Au	nge Positio	Madesda Madesda Madesda	v	2	186		6 201 6 201	2180 2180 2180					20	2028 2028 2028	208 208	200	
200 AU	Reach Food Sear Scientists Front Scientists Front Scientists	ich inz - 10to 10 - Nobert 20 50 P Gebest Sib inz - 10to 10 - Consept 60 10 (2018 Indust) Sib inz - 10to 10 - Consept 60 10 (2018 Indust) Sib inz - 10to 10 - 20to 10 40 10 Hodinat	L	Grant Grant	2004 A		10 A 1		CAN NO.	5 95,01 5 95,01			1 to	nee Positio nego Positio	Natural Natural	2	,	186		e 200 e 200	2180 2180 2180					20	2020	201	200	- u - u
2588 4031 2583 4038	Road: Real Real Valuation Road: Real	Tab. Same - 2006 18 2006 18. (2021 Surface) Tab. Same - 2006 18 2006 18. (2021 Surface) Tab. Same - 2006 18 2006 18. (2021 Surface) Tab. Same - 2006 18 2006 18. (2021 Surface)		Grand Grand	1014 4 2014 4		167 E 1	711 E	C716 NGL	5 00,400 5 00,400 5 205,260			1 40	nge Positio	Makesia Makesia Makesia		3	1896		201	2180 2180 2180					20	2028	2028 2028	208	12
200 403	Reach Stead Sear Valuation	This Same - Sain Sell - Counting that I SE (1922) Sandment I This Same - Counting that I SE - Sain Sell (1923) Sandment I Sain Sell - Counting that I SE - Sain Sell (1923) Sandment I Sain Sell - Counting that I SE - Sain Sell (1923) Sandment I		Grand Grand	2004 A		100 E 10		LINE NO.	5 NO.00			1 40	nge Positio	Makesia Makesia		2	186	-	201	2180 2180 2180					20 20 20 20 20 20 20 20 20 20 20 20 20 2	203	208	200	9
290 401 291 484	Real Montes Real Montes Real Montes Real Montes Real Montes Real Montes	CHA LIAT From 18th 58 to 2008 (218 Lichner) 270 (208 From 28th 58th 2780 (218 Lichner) 270 (208 From 28th 58th 2780 (3168 Lichner)		Grand Grand	2014 A		10 1 1 10 1 1	ATI S	COM NO.	8 863/0 8 80/08			1 Au	rege Possión	Makada Makada		3	Table		200 6 200 6 200	2180 2180 2180					20	2028	2028 2028	208	u u
294 GE	Real Studies Front Studies Front Studies Front Studies Front Studies Front Studies	CONTRACTOR AND		Greet Greet	2004 A		100 A 1	28 I	1.268 NAL	5 310,681 5 906,619			1 Au	rege Possitio	Madesia Madesia		,	1896	-	201	2180 2180 2180					20	202	208	200	12
298 408 298 208	Reads Read Read Selection Reads Read Read Selection	CONTRACTOR AND		Grand Grand	304 4 304 4		net (8 - 1)	au 1	1.01 NO.	5 80.300 5 80.300			1 Au	rege Possilio	Makada Makada	2	3	1896		200	2180 2180 2180					20	2028	202	200	12
2965 8075 2965 8075 2962 8075	Reads Read Bear Valuation Reads Read Bear Valuation Reads Read Reads Read	PRIVANT have 2006 to 25th 50 (1170 Sachard) PRIVANT have 20th 50 to 2008 (1177 Sachard) CRIVANT have 20th 50 to 2008 (1177 Sachard) CRIVANT have 20th 50 to 50th 500 (1177 Sachard)		Grant Grant	2004 A	20	30 6 30	730 E - 1	1738 NULL 1438 S 82,01 1306 NULL	5 00,000 5 00,700 5 00,700			1 20	nge Positio nge Positio	Makesia Makesia Makesia		2	2018		6 201 8 205 6 207	2180 2180 2180	,				20	2018	2016 2016	200	2
2006 3450 2006 3450 2006 3450	Reach Read Real Voluntion Reach Read Real Voluntion Reach Read Real Voluntion	TO CARE have this list in County fail 25 (SEE Seafmer) THE CARE have County fail in to 16 in 18 (SEE Seafmer) THE CARE have County fail in to 16 in 18 (SEE Seafmer)		Grand Grand Grand	1814 A		160 E 1	200 E	COM NO.	5 80,310 5 80,310	-		6 Am	nga Pasilia nga Pasilia	Madesale Madesale Madesale	,	3	Table Table	-	6 300 6 300 6 300	2180 2180					20	2028 2028 2028	2024 2024 2024	208	- U - U
200 600 200 600	Reals Seal Bear Valuation Reals Seal Bear Valuation Reals Seal Bear Valuation	Americki (Orani Kallay S Edin north of Jöh M Jöh M. (2018 Serbed) Americki (Orani Kallay S 2018 SE - Edin north of Töh M. (EES Serbed) Americki (Orani Kallay S 2018 SE - Edin north of Töh M. (EES Serbed)		Grand Grand Grand	3854 A		no e o	707 B	K.OF NAL	5 87,411 5 87,411 5 80,80			6 Au	nge Positio	Madesda Madesda Madesda		2	186		6 205 6 205	2180 2180 2180					20	2028 2028 2028	2028 2028	200	- U - U
2709 6291	Reals Real Real Selection Reals Real Real Selection	American's / Oranni Salahy St 100h SH Hajdaway 88 (1695 Sarfase) Committee Mrl Committee St ear of Committee And COSSES Sarfase)	L	Grant	2004 6		100 A	300 1	1,300 NULL	1 20,00			E Aus	Positio	National Property of the Indiana	v	,	1896		E 201	2180 2180					20	2028	201	208	12

Amaranth Roads - Barrier Inventory

Current Leveles of Service Expected Levels of Service
Replacement/Improvement Year Based on Current Levels Service Replacement/Improvement Year Based on Expected Levels

																						Replacement	iiproveilielit i	ear based on Curren	Levels Service					S	ervice	
FIXI ASS IE) T Subtype	Asset Name	Description	Install Year	Useful R Life U	emaining seful Life	Age	Cost	Amortization	2015 Net Book Value	Replacement Cost	Condition Based On Useful Life	Staff Assessed Condition	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimmal maintenance practices	Current Levels of Service % benefit			Subsequent Replacement Year	Revised Remaining Useful Life	Proposed Rehabilitation Cost (2016 \$)	Year for Rehabilitation	Extended Life Servic (Years) due to Betterment Curre Condi	Is of ce % t over ent + lition Revised Levels Service Replacement Year	Year Replacemen Applying Ris Score - or Staff Overrid		t Revised t Remaining Useful Life
						9	21	\$ 18,589 \$	12,490	6,099	\$ 23,951			5.1					2							\$ -						
	36 Roads - Barrier	Steel Beam Guide Rail Road Barrier - Bridge 7 - 5th SR	Road Barrier	1991	30	5	25	\$1,132	\$944	\$18	9 \$1,547	2	5	5	Average	Possible	Minor	M	2	2018	10	2021	2021	2051	5			20	0 202	.7 207	.7 205	7 11
	38 Roads - Barrier		Road Barrier	1991	30	5	25	\$717	\$598	\$12	\$980	2	5	5	Average	Possible	Minor	M	2	2018	10	2021	2021	2051	5		1	20		.7 207	.7 205	7 11
	53 Roads - Barrier	Steel Beam Guide Rail Road Barrier - Bridge 4 - 9th Line	Road Barrier	1995	30	9	21	\$3,113	\$2,179	\$93	4 \$4,045	3	5	5	Average	Possible	Minor	М	2	2022	10	2025	2025	2055	9		1	10	0 202	.8 207	.8 205	8 12
	54 Roads - Barrier	Steel Beam Guide Rail Road Barrier - Bridge 4 - 9th Line	Road Barrier	1995	30	9	21	\$3,055	\$2,138	\$91	\$3,970	3	5	5	Average	Possible	Minor	M	2	2022	10	2025	2025	2055	9		1	10	0 202	.8 20'	.8 205	.8 12
	55 Roads - Barrier	Steel Beam Guide Rail Road Barrier - Bridge 8 - 9th Line	Road Barrier	1993	30	7	23	\$986	\$756	\$23	\$1,314	2	5	5	Average	Possible	Minor	M	2	2020	10	2023	2023	2053	7		1	20		.9 20'	.9 205	.9 13
	57 Roads - Barrier	Steel Beam Guide Rail Road Barrier - Bridge 8 - 9th Line	Road Barrier	1993	30	7	23	\$713	\$547	\$16	\$950	2	5	5	Average	Possible	Minor	M	2	2020	10	2023	2023	2053	7		ĺ	20	0 202	.9 20'	.9 205	.9 13
	58 Roads - Barrier	Steel Beam Guide Rail Road Barrier - Bridge 8 - 9th Line	Road Barrier	1993	30	7	23	\$406	\$311	\$9	\$541	2	5	5	Average	Possible	Minor	M	2	2020	10	2023	2023	2053	7		i	20	0 202	.9 20'	.9 205	.9 13
	60 Roads - Barrier	Steel Beam Guide Rail Road Barrier - Bridge 8 - 9th Line	Road Barrier	1993	30	7	23	\$1,545	\$1,184	\$36	\$2,059	2	5	5	Average	Possible	Minor	M	2	2020	10	2023	2023	2053	7		ĺ	20	0 202	.9 20'	.9 205	.9 13
	71 Roads - Barrier	Steel Beam Guide Rail Road Barrier - for old Bridge 9 - 8th Line	Road Barrier	2008	30	22	8	\$792	\$211	\$58	1 \$792	7		7	Good	Unlikely	Minor	L	1	2035	10	2038	2038	2068	22		i	0	203	.8 20'	8 206	8 22
	92 Roads - Barrier	Steel Beam Guide Rail Road Barrier - Bridge 19 - 6th Line	Road Barrier	2002	30	16	14	\$1,031	\$481	\$55	\$1,158	5		5	Average	Possible	Minor	M	2	2029	10	2032	2032	2062	16		i	0	203	.2 20'	.2 206	2 16
	94 Roads - Barrier	Steel Beam Guide Rail Road Barrier - Bridge 19 - 6th Line	Road Barrier	2002	30	16	14	\$1,047	\$488	\$55	\$1,176	5		5	Average	Possible	Minor	M	2	2029	10	2032	2032	2062	16		1	0	203	.2 20'	.2 206	2 16
	95 Roads - Barrier	Steel Beam Guide Rail Road Barrier - Bridge 19 - 6th Line	Road Barrier	2002	30	16	14	\$1,049	\$490	\$56	\$1,179	5		5	Average	Possible	Minor	M	2	2029	10	2032	2032	2062	16		i	0	203	.2 20'	.2 206	2 16
	97 Roads - Barrier	Steel Beam Guide Rail Road Barrier - Bridge 19 - 6th Line	Road Barrier	2002	30	16	14	\$1,065	\$497	\$56	\$1,196	5		5	Average	Possible	Minor	M	2	2029	10	2032	2032	2062	16		i	0	203	.2 20'	.2 206	2 16
	02 Roads - Barrier	Steel Beam Guide Rail Road Barrier - East end of Henry St.	Road Barrier	1980	30	0	36	\$305	\$305	\$1	\$811	0	5	5	Average	Possible	Minor	M	2	2007	10	2010	2017	2054	1		i	40	0 202	.2 20'	.2 205	2 6
		Steel Beam Guide Rail Road Barrier - Bridge 7 - 5th SR	Road Barrier	1991	30	5	25	\$725	\$605	\$12	1 \$991	2	5	5	Average	Possible	Minor	M	2	2018	10	2021	2021	2051	5		i	20	0 202	27 202	.7 205	7 11
	12 Roads - Barrier	Steel Beam Guide Rail Road Barrier - Bridge 7 - 5th SR	Road Barrier	1991	30	5	25	\$909	\$757	\$15	1 \$1,241	2	5	5	Average	Possible	Minor	M	2	2018	10	2021	2021	2051	5		ĺ	20	0 202	.7 20'	.7 205	.7 11

Amaranth Storm/Sanitary - Discharge Point Inventory Current Leveles of Service Expected Levels of Service

																		Replacen	nent/Improvem	ent Year Based	on Current Levels S	ervice				Replaceme	nt/Improvemen	t Year Based on	Expected Levels	Service	
Fixed Asset		Asset Type	Asset Name	Install Usel Year Life	ul Remaining Useful Life	Age	Historic Cost A	2015 ccumulat ed mortizati n System		Condition Based On Useful Life	Staff Assessed Condition	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimmal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score	Subsequent Replacemen Year	Revised Remaining Useful Life	Rehabiliation Year	n Rehabiliation Cost (2016)	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current	Revised Levels Service Replacement Year	Year Replacement S Applying Risk Score - or Staff Override	Subsequent leplacement Year	Revised Remaining Useful Life
					22	28	\$ 13,353 \$	7,422 \$ 5	,931 \$ 45,	,000		7.0					1								\$ -						
276	60 Storm/Sanitary - Discharge Point	DischargePoint - Outfall w/ Headwall	Storm Water Discharge Point - off of St. Johns St.	1990	50 24	26	7377.3	3836.2 35	41.1 25	5000 5	7	7	Good	Unlikely	Minor	L	1	2035	10	2040	2040	209	90 2	24			0	2040	2040	2090	24
301	17 Storm/Sanitary - Discharge Point	DischargePoint - Outfall w/ Headwall	Storm Water Discharge Point - at east end of Henry St.	1986	20	30	5975.55	3585.33 239	90.22 20	0000 4	7	7	Good	Unlikely	Minor	L	1	2031	10	2036	2036	208	36	20			5	2039	2039	2089	23

Amaranth Storm/Sanitary - Catch Basin Inventory

Probability of Failure (Based on Condition or Expected Condition) | Remaining Useful Life | Cost | Accumulated Book | System | Cost | System | C Revised Levels Service Replacement Year Year Replacement Applying Risk Score Replacement due to minimmal maintenance Road Section GIS ID Revised Remaining Useful Life Consequence Risk of Failure Numerical Value of Risk of Failure Water Type (m) Northing Install Useful Year Life Road From Road To 2724 Storm/Sanitary - Catch Basin
2725 Storm/Sanitary - Catch Basin
2725 Catch Basin
2725 Storm/Sanitary - Catch Basin
2726 Storm/Sanitary - Catch Basin
2726 Storm/Sanitary - Catch Basin
2727 Storm/Sanitary - Catch Basin
2728 Storm/Sanitary - Catch Basin
2729 Storm/Sanitary - Catch Basin
2724 Storm/Sanitary - Catch Basin
2725 Storm/Sanitary - Catch Basin
2725 Storm/Sanitary - Catch Basin
2726 Storm/Sanitary - Catch Basin
2727 Storm/Sanitary - Catch Basin
2728 Storm/Sanitary - Catch Basin
2728 Storm/Sanitary - Catch Basin
2729 Storm/Sanitary - Catch Basin
2720 Storm/Sanitary - Catch Basin
2721 Storm/Sanitary - Catch Basin
2722 Storm/Sanitary - Catch Basin
2723 Storm/Sanitary - Catch Basin
2724 Storm/Sanitary - Catch Basin
2725 Storm/Sanitary - Catch Basin
2726 Storm/Sanitary - Catch Basin
2727 Storm/Sanitary - Catch Basin
2728 Storm/Sanitary - Catch Basin
2729 Storm/ 157 St. John Street 157 St. John Street -Null>
2417 ST. JOHN STREET RUSSEL HILL ROAD
2419 Russel Hill Road ST. JOHN STREET
2419 Russel Hill Road ST. JOHN STREET
2417 ST. JOHN STREET RUSSEL HILL ROAD
2419 PETRE COURT -Null>
2419 PETRE COURT -NULL>
2418 Russel Hill Road PETRE STREET / PETE
2418 Russel Hill Road PETRE STREET / PETE
2418 Russel Hill Road PETRE STREET / PETE
2410 PETRE STREET RUSSEL HILL ROAD
2420 PETRE STREET RUSSEL HILL ROAD Storm 557884 4859978 199 Moderate PETER STREET Uniticely
Uniticely Moderate
Moderate FTER STREET PETER STREET / PETER O IRTPETER STREET 2418 RUSSEL HILL ROAD PETER STREET / PETER COURTPETER STREET 2418 BUSSEL HILL ROAD PETEN SIREET / PETER COURT PETEN SIREET / 2418 BUSSEL HILL ROAD PETEN SIREET / PETER COURT PETEN SIREET / 2418 BUSSEL HILL ROAD PETEN SIREET / PETER COURT PETEN SIREET / 2419 BUSSEL HILL ROAD PETEN SIREET / PETEN COURT PETEN SIREET 2419 BUSSEL HILL ROAD ST. JOHN STREET PETEN SIREET PETEN SIREET 2419 BUSSEL HILL ROAD ST. JOHN STREET PETEN SIREET PETEN SIREET 2419 BUSSEL HILL ROAD ST. JOHN SIREET PETEN SIREET SIR 2418 RUSSEL HILL ROAD PETER STREET / PETER COURT PETER STREET Moderate RUSSEL HILL ROAD Catchbasin - 9, JAMES ST
Catchbasin - 20 STATION ST
DoubleCatchbasin - 4 HENRY ST
Catchbasin - 13 MILL ST
DoubleCatchbasin - 8 HENRY ST
Catchbasin - 19 MILL ST
Catchbasin - 19 MILL ST
Obtach ST
Catchbasin - 29 RUSSELL HILL RD
ObtachineCatchbasin - 38 STATION ST
Catchbasin - 15 JAMES ST
Catchbasin - 15 JAMES ST
Catchbasin - 15 MILL ST
DoubleCatchbasin - 15 MILL ST
DoubleCatchbasin - 15 MILL ST
DoubleCatchbasin - 16 MILL ST
DoubleCatchbasin - 18 MILL ST
Catchbasin - 28 STATION ST
Catchbasin - 10 JAMES ST
DoubleCatchbasin - 22 STATION ST
Catchbasin - 10 JAMES ST
Catchbasin - 10 JAMES ST
Catchbasin - 19 LOWES ST STATION ST
Catchbasin - 19 LOWES ST STATION ST
Catchbasin - 19 CHURCH ST
DoubleCatchbasin - 3 HENRY ST
Catchbasin - 9 CHURCH ST
DoubleCatchbasin - 5 HENRY ST 2447 9 JAMES ST
2398 29 STATION ST
2413 4 HENRY ST
2425 13 MILL ST
2413 18 HENRY ST
2425 19 MILL ST
2425 19 MILL ST
2426 19 STATION ST
2426 19 MILL ST
2427 19 STATION ST
2427 19 JAMES ST
2427 15 JAMES ST
2427 15 JAMES ST
2427 12 JAMES ST
2428 15 MILL ST
2447 19 JAMES ST
2439 12 STATION ST
2447 19 JAMES ST
2398 22 STATION ST
2447 19 JAMES ST
2398 22 STATION ST
2447 19 JAMES ST
2398 22 STATION ST
2447 19 JAMES ST
2459 12 STATION ST
2469 12 STATION ST
2479 12 STATION 2398 20 STATION ST Moderate 2066 2066 2066 CatchBasin
DoubleCatchBasin
CatchBasin
DoubleCatchBasin
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CatchBasin
itchInletCatchBasin Unlikely
Unlikely Moderate
Moderate 10 2062 10 2066 10 2062 10 2062 10 2062 10 2062 10 2066 10 2062 10 2062 10 2062 10 2062 CatchBasin
CatchBasin
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DoubleCatchBasin
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CatchBasin

Amaranth
Current Leveles of Service
Expected Levels of Service

3101111/	Sanitary Mannoie inven	tory																									Current Levele								xpected Leve	is or service		
																									Replaceme	ent/Improveme	ent Year Based	on Current Levels S	Service				Replacement	/Improvement	Year Based o	n Expected Lev	els Service	
Fixed Asset #	# Subtype	Road Section GIS ID	Road Name	Road From	Road To	Asset Name	Access diameter	Asset Type	Water Type	Install Usef Year Life	ul Remaining Useful Life	Age Hist	toric Acc ost Am	cumulated Inortization N	ystem	placement C B Us	ondition ased On seful Life	Assessed Condition	ondition Col Jsed for (A Analysis P	Asset Indition As per Priority (ating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure		Numerical /alue of Risk of Failure	Year Replacement due to minimmal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacement Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life	Rehabiliation Year	Rehabiliation Cost (2016)	Extended Life (Years) due to Betterment	Expected Levels of Service %	Revised Levels Service Replacement	Year Replacement	Subsequent Replacement Year	Revised Remaining Useful Life
											74	26 \$ 184	4,081 \$	47,861 \$ 1	36,220 \$	262,000			7.0					2								\$ -						
2763	1 Storm/Sanitary - Manh	ole 2416	St. John Street	STATION STREET	RUSSEL HILL ROAD	Manhole		Manhole Generic	Storm	1990 10	00 74	26 \$	9,134	\$2,375	\$6,759	\$13,000	7		7 (Good	Unlikely	Moderate	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2762	2 Storm/Sanitary - Manh	ole 2419	Russel Hill Road	ST. JOHN STREET	PETER STREET	Manhole	1500 mm	Manhole Generic	Storm	1990 10	00 74	26 \$1	0,890	\$2,831	\$8,059	\$15,500	7		7 (Good	Unlikely	Moderate	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2763	3 Storm/Sanitary - Manh	ole 2419	Russel Hill Road	ST. JOHN STREET	PETER STREET	Manhole	1200 mm	Manhole Generic	Storm	1990 10	00 74	26 \$	9,134	\$2,375	\$6,759	\$13,000	7		7 (Good	Unlikely	Moderate	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2764	4 Storm/Sanitary - Manh	ole 2419	Russel Hill Road	ST. JOHN STREET	PETER STREET	Manhole	1500 mm	Manhole Generic	Storm	1990 10	00 74	26 \$1	0,890	\$2,831	\$8,059	\$15,500	7		7 (Good	Unlikely	Moderate	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2769	5 Storm/Sanitary - Manh	ole 2419	Russel Hill Road	ST. JOHN STREET	PETER STREET	Manhole	1500 mm	Manhole Generic	Storm	1990 10	00 74	26 \$1	0,890	\$2,831	\$8,059	\$15,500	7		7 (Good	Unlikely	Moderate	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2766	6 Storm/Sanitary - Manh	ole 2419	Russel Hill Road	ST. JOHN STREET	PETER STREET	Manhole		Manhole Generic	Storm	1990 10	00 74	26 \$1	0,890	\$2,831	\$8,059	\$15,500	7		7 (Good	Unlikely	Moderate	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2767	7 Storm/Sanitary - Manh	ole 2420	Peter Street	RUSSEL HILL ROAD	PETER STREET / PETER COURT	Manhole	1200 mm	Manhole Generic	Storm	1990 10	00 74	26 \$	9,134	\$2,375	\$6,759	\$13,000	7		7 (Good	Unlikely	Moderate	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2768	8 Storm/Sanitary - Manh	ole 2418	Russel Hill Road	PETER STREET / PETER COURT	PETER STREET	Manhole	1200 mm	Manhole Generic	Storm	1990 10	00 74	26 \$	9,134	\$2,375	\$6,759	\$13,000	7		7 (Good	Unlikely	Moderate	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2769	9 Storm/Sanitary - Manh	ole 2418	Russel Hill Road	PETER STREET / PETER COURT	PETER STREET	Manhole	1200 mm	Manhole Generic	Storm	1990 10	00 74	26 \$	9,134	\$2,375	\$6,759	\$13,000	7		7 (Good	Unlikely	Moderate	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2770	0 Storm/Sanitary - Manh	ole 2418	Russel Hill Road	PETER STREET / PETER COURT	PETER STREET	Manhole		Manhole Generic	Storm	1990 10	00 74	26 \$	9,134	\$2,375	\$6,759	\$13,000	7		7 (Good	Unlikely	Moderate	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2771	1 Storm/Sanitary - Manh	ole 2418	Russel Hill Road	PETER STREET / PETER COURT	PETER STREET	Manhole	1200 mm	Manhole Generic	Storm	1990 10	00 74	26 \$	9,134	\$2,375	\$6,759	\$13,000	7		7 (Good	Unlikely	Moderate	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2772	2 Storm/Sanitary - Manh	ole 2420	Peter Street	RUSSEL HILL ROAD	PETER STREET / PETER COURT	Manhole	1200 mm	Manhole Generic	Storm	1990 10	00 74	26 \$	9,134	\$2,375	\$6,759	\$13,000	7		7 (Good	Unlikely	Moderate	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
277:	3 Storm/Sanitary - Manh	ole 2420	Peter Street	RUSSEL HILL ROAD	PETER STREET / PETER COURT	Manhole			Storm	1990 10	00 74	26 \$	9,134	\$2,375	\$6,759	\$13,000	7		7 (Good	Unlikely	Moderate	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2774	4 Storm/Sanitary - Manh	ole 2420	Peter Street	RUSSEL HILL ROAD	PETER STREET / PETER COURT	Manhole	1200 mm	Manhole Generic	Storm	1990 10	00 74	26 \$	9,134	\$2,375	\$6,759	\$13,000	7		7 (Good	Unlikely	Moderate	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2775	5 Storm/Sanitary - Manh	ole 2420	Peter Street	RUSSEL HILL ROAD	PETER STREET / PETER COURT	Manhole		Manhole Generic	Storm	1990 10	00 74	26 \$	9,134	\$2,375	\$6,759	\$13,000	7		7 (Good	Unlikely	Moderate	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2776	6 Storm/Sanitary - Manh	ole 2416	St. John Street	STATION STREET	RUSSEL HILL ROAD	Manhole	1200 mm	Manhole Generic	Storm	1990 10	00 74	26 \$	9,134	\$2,375	\$6,759	\$13,000	7		7 (Good	Unlikely	Moderate	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2777	7 Storm/Sanitary - Manh	ole 2416	St. John Street	STATION STREET	RUSSEL HILL ROAD	Manhole	1200 mm	Manhole Generic	Storm	1990 10	00 74	26 \$	9,134	\$2,375	\$6,759	\$13,000	7		7 (Good	Unlikely	Moderate	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
2778	8 Storm/Sanitary - Manh	ole 2416	St. John Street	STATION STREET	RUSSEL HILL ROAD	Manhole		Manhole Generic	Storm	1990 10	00 74	26 \$1	0,890	\$2,831	\$8,059	\$15,500	7		7 (Good	Unlikely	Moderate	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74
3016	6 Storm/Sanitary - Manh	ole 2416	St. John Street	STATION STREET	RUSSEL HILL ROAD	Manhole	1500 mm	Manhole Generic	Storm	1990 10	00 74	26 \$1	0,890	\$2,831	\$8,059	\$15,500	7		7 (Good	Unlikely	Moderate	M	2	2080	10	2090	2090	2190	74				0	2090	2090	2190	74

Amaranth Storm/Sanitary - Gravity Main Inventory Current Leveles of Service Replacement/Improvement Year Based on Current Levels Expected Levels of Service + Town Input
Replacement/Improvement Year Based on Expected Levels

																					S	ervice							Service	
Fixed Asset #	Subtype	Street ID Stree	t Name Fi	rom	To F	Pipe ID Asset Name	Length Water (m) Type	Diameter	(m)	Aaterial Install Useful Remainin Year Life Useful Lif		System System	Cost Useful Life	Town Analysis	Priority Rating) Condition o Expected Condition)	Consequence Ris	of Numeric Value of F of Failur		Levels of Le Service R	Revised vels Service R eplacement A _I Year	Year eplacement	Subsequent	Revised emaining Useful Life	Proposed Rehabilitation Cost (2015 \$)	Year for Rehabilitation	Extended Life (Years) due to Betterment	Expected Levels of Service % benefit over Current + Condition better then expected for age	Revised Levels Replace Service Applying Replacement Year Staff Ove	r ment Subsequent g Risk Replacement	
2779 Storm/	anitary - Gravity Main	157 St. John	troot			Collector Gravity Main	Storm	200	3,132 75 PV	VC 1990 100 74	27 \$1,286,66 26 \$ 34,15	8 \$ 8,881 \$ 25,277		6.5	7 Good Unlikely	Moderate N	2	2080	10	2000	2000	2190	74	\$0			0	2090	2090 219	100 74
2780 Storm/S	anitary - Gravity Main	51 Russel H				Collector Gravity Main	Storm	600		P 1990 75 49	26 \$ 47,14	1 \$ 16,342 \$ 30,799		7	7 Good Unlikely	Moderate N	2	2058	10	2066	2090		50				0		2066 214	
2781 Storm/S	anitary - Gravity Main anitary - Gravity Main	51 Russel H 51 Russel H				Collector Gravity Main Collector Gravity Main	Storm		71 CF		26 \$ 33,34 26 \$ 16,45			7	7 Good Unlikely 7 Good Unlikely		2	2058 2058	10	2066	2066 2066		50 50				0	2066 2066		141 50 141 50
	anitary - Gravity Main anitary - Gravity Main	51 Russel H				Collector Gravity Main	Storm		13 CF					7	7 Good Unlikely 7 Good Unlikely		2	2058	10	2066	2066	2142	50				0	2066	2066 214	141 50
	anitary - Gravity Main	158 St. John				Collector Gravity Main	Storm	675	50 CF	P 1990 75 49	26 \$ 23,68			7	7 Good Unlikely	Moderate M	2	2058	10	2066	2066	2142	50				0	2066	2066 214	141 50 141 50
	anitary - Gravity Main anitary - Gravity Main	158 St. John 158 St. John				Collector Gravity Main Collector Gravity Main	Storm Storm				26 \$ 13,15 26 \$ 48,94			7	7 Good Unlikely 7 Good Unlikely	Moderate Moderate	2	2058 2058	10	2066 2066	2066 2066		50 50				0	2066 2066		141 50 141 50
2787 Storm/S	anitary - Gravity Main	158 St, John	treet			Collector Gravity Main	Storm	525	121 CF	P 1990 75 49	26 \$ 56,89	1 \$ 19,722 \$ 37,169	\$ 80,972	7	7 Good Unlikely	Moderate N	2	2058	10	2066	2066	2142	50				0		2066 214	141 50
	anitary - Gravity Main anitary - Gravity Main	158 St. John 159 Russel H				Collector Gravity Main Collector Gravity Main	Storm		57 CF	P 1990 75 49 P 1990 75 49	26 \$ 26,72 26 \$ 28.81	3 \$ 9,264 \$ 17,459 7 \$ 9,990 \$ 18.827		7	7 Good Unlikely 7 Good Unlikely	Moderate Moderate	2	2058 2058	10	2066	2066 2066	2142	50 50				0	2066	2066 214	141 50 141 50
2790 Storm/S	anitary - Gravity Main	159 Russel H	II Road			Collector Gravity Main	Storm	300		P 1990 75 49	26 \$ 27,89	2 \$ 9,669 \$ 18,223	\$ 39,698	7	7 Good Unlikely	Moderate N	2	2058	10	2066	2066	2142	50				0	2066	2066 214	141 50
	anitary - Gravity Main anitary - Gravity Main	159 Russel H 159 Russel H				Collector Gravity Main Collector Gravity Main	Storm		49 CF	P 1990 75 49 P 1990 75 49	26 \$ 23,08 26 \$ 29,68	4 \$ 8,003 \$ 15,082 2 \$ 10,290 \$ 19,392		7	7 Good Unlikely 7 Good Unlikely	Moderate M	2	2058 2058	10	2066	2066	2142 2142	50 50				0	2066 2066	2066 214 2066 214	141 50
2793 Storm/S	anitary - Gravity Main	51 Russel H	ll Road			Collector Gravity Main	Storm	600	70 CF	P 1990 75 49	26 \$ 32,77	3 \$ 11,361 \$ 21,411	\$ 46,645	7	7 Good Unlikely	Moderate N	2	2058	10	2066	2066	2142	50				ő	2066		141 50 141 50
2794 Storm/S	anitary - Gravity Main anitary - Gravity Main	52 Peter Str 52 Peter Str				Collector Gravity Main Collector Gravity Main	Storm		75 CF		26 \$ 35,37 26 \$ 25,76			7	7 Good Unlikely 7 Good Unlikely		2	2058 2058	10	2066	2066		50 50				0	2066 2066	2066 214 2066 214	
	anitary - Gravity Main	52 Peter Str				Collector Gravity Main	Storm		91 CF	. 2000 10 10	26 \$ 42,77			7	7 Good Unlikely	Moderate N	2	2058	10	2066	2066		50				0	2066	2066 214	
	anitary - Gravity Main	52 Peter Str				Collector Gravity Main	Storm		46 CF		26 \$ 21,68 26 \$ 33,55	5 \$ 7,517 \$ 14,167 4 \$ 11,632 \$ 21,922		7	Good Unlikely	Moderate N	2	2058	10	2066	2066		50				0	2066	2066 214	
	anitary - Gravity Main anitary - Gravity Main	52 Peter Str 159 Russel H				Collector Gravity Main Collector Gravity Main	Storm		54 CF	P 1990 75 49 P 1990 75 49	26 \$ 33,55			7	7 Good Unlikely 7 Good Unlikely	Moderate Moderate	2	2058 2058	10	2066	2066 2066		50 50				0	2066	2066 214 2066 214	141 50 141 50
	anitary - Gravity Main	159 Russel H				Catchbasin Lead Gravity Main	Storm		7 CF			2 \$ 1,200 \$ 2,262	\$ 4,928	7	7 Good Unlikely	Moderate N	2	2058	10	2066	2066		50				0	2066	2066 214	
2801 Storm/S 2802 Storm/	anitary - Gravity Main anitary - Gravity Main	48 Peter Co 48 Peter Co				Catchbasin Lead Gravity Main Catchbasin Lead Gravity Main	Storm		8 CF		26 \$ 3,84 26 \$ 6,11	1 \$ 1,332 \$ 2,509 1 \$ 2,118 \$ 3,992		7	7 Good Unlikely 7 Good Unlikely	Moderate M	2	2058 2058	10	2066 2066	2066 2066		50 50				0	2066 2066		141 50 141 50
2803 Storm/S	anitary - Gravity Main	158 St. John	street			Catchbasin Lead Gravity Main	Storm	250	8 CF	P 1990 75 49	26 \$ 3,65	4 \$ 1,267 \$ 2,387	\$ 5,201	7	7 Good Unlikely	Moderate N	2	2058	10	2066	2066	2142	50				0	2066	2066 214	141 50
	anitary - Gravity Main anitary - Gravity Main	159 Russel H				Catchbasin Lead Gravity Main Catchbasin Lead Gravity Main	Storm	250 250	13 CF		26 \$ 6,11 26 \$ 2,61			7	7 Good Unlikely 7 Good Unlikely	Moderate Moderate	2	2058 2058	10	2066 2066	2066 2066		50 50				0	2066 2066	2066 214 2066 214	
2806 Storm/S	anitary - Gravity Main	159 Russel H	II Road			Catchbasin Lead Gravity Main	Storm	250	5 CF	P 1990 75 49	26 \$ 2,27	8 \$ 790 \$ 1,488	\$ 3,242	7	7 Good Unlikely	Moderate N	2	2058	10	2066	2066	2142	50				ő	2066	2066 214	141 50
	anitary - Gravity Main anitary - Gravity Main	159 Russel H 52 Peter St				Catchbasin Lead Gravity Main Catchbasin Lead Gravity Main	Storm	250	4 CF	P 1990 75 49 VC 1990 100 74	26 \$ 1,92 26 \$ 4.67			7	7 Good Unlikely 7 Good Unlikely	Moderate Moderate	2	2058 2080	10	2066	2066 2090		50 74				0	2066 2090	2066 214 2090 219	141 50 190 74
	anitary - Gravity Main	157 St. John				Catchbasin Lead Gravity Main	Storm	300	15 P\	VC 1990 100 74	26 \$ 6,91			7	7 Good Unlikely	Moderate M	2	2080	10	2090	2090	2190	74				0	2090	2090 219	190 74
	anitary - Gravity Main	158 St. John				Catchbasin Lead Gravity Main	Storm	300	12 CF	. 2000 10				7	7 Good Unlikely	Moderate N	2	2058	10	2066	2066		50				0	2066		141 50
	anitary - Gravity Main anitary - Gravity Main	158 St. John 15 Station S				Catchbasin Lead Gravity Main Outfall Gravity Main	Storm	600	8 CF		26 \$ 3,81 26 \$ 6,32			5	7 Good Unlikely 5 Average Possible	Moderate Moderate	2	2058 2035	10	2066 2040	2066 2040		50 24				0	2066 2040		141 50 090 24
2813 Storm/S	anitary - Gravity Main	15 Station S	treet			Catchbasin Lead Gravity Main	Storm	250	2 P\	VC 1990 100 74	26 \$ 87	8 \$ 228 \$ 650		7	Good Unlikely	Moderate N	2	2080	10	2090	2090	2190	74				0	2090	2090 219	190 74
	anitary - Gravity Main anitary - Gravity Main	52 Peter Str 52 Peter Str				Catchbasin Lead Gravity Main Catchbasin Lead Gravity Main	Storm	250	5 CF 4 CF		26 \$ 2,29 26 \$ 2,00			7	7 Good Unlikely 7 Good Unlikely	Moderate Moderate	2	2058 2058	10	2066 2066	2066 2066		50 50				0	2066 2066		141 50 141 50
2991 Storm/S	anitary - Gravity Main	52 Peter Str	eet			Catchbasin Lead Gravity Main	Storm	250	4 CF	P 1990 75 49	26 \$ 1,70	6 \$ 591 \$ 1,114	\$ 2,428	7	7 Good Unlikely	Moderate N	2	2058	10	2066	2066	2142	50				0	2066		141 50
	anitary - Gravity Main anitary - Gravity Main	52 Peter Str				Catchbasin Lead Gravity Main Catchbasin Lead Gravity Main	Storm	250	7 CF	P 1990 /5 49	26 \$ 3,23 26 \$ 44	8 \$ 1,123 \$ 2,116 2 \$ 153 \$ 289		7	7 Good Unlikely 7 Good Unlikely	Moderate Moderate	2	2058 2058	10	2066	2066	2142	50 50				0	2066	2066 214	141 50 141 50
2994 Storm/S	anitary - Gravity Main	16 Station S	treet			Culvert Gravity Main	Storm	500	17 CS	SP 1990 50 24	26 \$ 6,61	9 \$ 3,442 \$ 3,177	\$ 9,420	5	Average Possible	Moderate M		2035	10	2040	2040	2090	24				0	2040	2040 209	090 24
	anitary - Gravity Main anitary - Gravity Main					Catchbasin Lead Gravity Main Catchbasin Lead Gravity Main	Storm		3 CF 6 CF	. 2000 10 10	26 \$ 1,18 26 \$ 2,65			7	7 Good Unlikely 7 Good Unlikely	Moderate Moderate	2	2058 2058	10	2066 2066	2066 2066		50 50				0	2066 2066	2066 214 2066 214	141 50 141 50
	anitary - Gravity Main	51 Russel H				Catchbasin Lead Gravity Main	Storm	250	3 CF		26 \$ 1,48			7	7 Good Unlikely	Moderate N		2058	10	2066	2066		50				0	2066	2066 214	141 50
	anitary - Gravity Main	51 Russel H				Catchbasin Lead Gravity Main Catchbasin Lead Gravity Main	Storm		3 CF	P 1990 75 49	26 \$ 1,32 26 \$ 74	9 \$ 461 \$ 868 7 \$ 259 \$ 488		7	7 Good Unlikely 7 Good Unlikely	Moderate Moderate	2	2058	10	2066	2066		50 50				0	2066 2066	2066 214 2066 214	141 50
	anitary - Gravity Main anitary - Gravity Main	51 Russel H				Catchbasin Lead Gravity Main	Storm	230	4 CF				7 1,000	7	7 Good Unlikely		2	2058	10	2066	2066		50				0	2066		141 50
	anitary - Gravity Main	154 Henry St				Catchbasin Lead Gravity Main	Storm		3 CS		30 \$ 93	5 \$ 561 \$ 374	\$ 1,643	4 5	Average Possible	Moderate M	2	2031	10	2036	2036		20				5	2039	2039 208	089 23
	anitary - Gravity Main anitary - Gravity Main	154 Henry St 50 Main Str				Catchbasin Lead Gravity Main Outfall Gravity Main	Storm		1 CS 210 CS		30 \$ 40			4 5	Average Possible Average Possible	Moderate Moderate	2	2031	10	2036	2036	2086 2086	20				5	2039		089 23 089 23
	anitary - Gravity Main					Collector Gravity Main	Storm			SP 1986 50 20	30 \$ 32,86	6 \$ 19,719 \$ 13,146		4 5	Average Possible	Moderate N	2	2031	10	2036	2036		20				5	2039		089 23
	anitary - Gravity Main anitary - Gravity Main	106 James St 106 James St				Collector Gravity Main Collector Gravity Main	Storm Storm		15 CS	SP 1986 50 20 SP 1986 50 20	30 \$ 4,63			4 5	5 Average Possible 5 Average Possible	Moderate Moderate	2	2031	10	2036 2036	2036 2036		20				5	2039 2039		089 23 089 23
3007 Storm/S	anitary - Gravity Main	106 James St	reet			Collector Gravity Main	Storm		78 CS	SP 1986 50 20	30 \$ 24,53			4 5	Average Possible	Moderate N	2	2031	10	2036	2036	2086	20				5	2039	2039 208	089 23
	anitary - Gravity Main anitary - Gravity Main	158 St. John 158 St. John				Catchbasin Lead Gravity Main Catchbasin Lead Gravity Main	Storm	250	4 CF	P 1990 75 49 P 1990 75 49	26 \$ 1,78 26 \$ 1.92			7	7 Good Unlikely 7 Good Unlikely	Moderate Moderate	2	2058	10	2066	2066	2142 2142	50				0	2066 2066	2066 214 2066 214	141 50 141 50
3010 Storm/S	anitary - Gravity Main	158 St. John	street			Catchbasin Lead Gravity Main	Storm	250	6 CF	P 1990 75 49	26 \$ 3,05	1 \$ 1,058 \$ 1,993	\$ 4,343	7	7 Good Unlikely	Moderate N	2	2058	10	2066	2066	2142	50				0	2066	2066 214	141 50
3011 Storm/S	anitary - Gravity Main anitary - Gravity Main	159 Russel H 159 Russel H	II Road			Catchbasin Lead Gravity Main Catchbasin Lead Gravity Main	Storm	250	2 CF		26 \$ 96 26 \$ 2,52			7	7 Good Unlikely 7 Good Unlikely	Moderate Moderate	2	2058 2058	10	2066 2066	2066 2066		50 50				0	2066 2066	2066 214 2066 214	141 50 141 50
3013 Storm/S	anitary - Gravity Main	159 Russel H	ll Road			Catchbasin Lead Gravity Main	Storm	250	2 CF	P 1990 75 49	26 \$ 1,10	1 \$ 382 \$ 719	\$ 1,567	7	7 Good Unlikely	Moderate M	2	2058	10	2066	2066	2142	50				0	2066	2066 21/	141 50
	anitary - Gravity Main anitary - Gravity Main	159 Russel H 52 Peter Str				Catchbasin Lead Gravity Main Catchbasin Lead Gravity Main	Storm	250	6 CF 3 CF		26 \$ 2,62 26 \$ 1,34			7	7 Good Unlikely 7 Good Unlikely		2	2058 2058	10	2066 2066	2066 2066		50 50				0	2066 2066		141 50 141 50
	anitary - Gravity Main	158 St. John				Collector Gravity Main	Storm	675	63 CF	P 1990 75 49	26 \$ 29,51			7	7 Good Unlikely		2	2058	10	2066	2066		50				0	2066		141 50 137 46
	anitary - Gravity Main anitary - Gravity Main	2447 JAMES S 2427 EVANS A				Collector Gravity Main Collector Gravity Main	Storm	300 300	7	1986 75 45	30 \$ 2,24	2 \$ 897 \$ 1,345 4 \$ 7,286 \$ 10.928		6	Average Possible Average Possible	Moderate Moderate	2	2054 2054	10	2062	2062	2138	46 46				0	2062		137 46 137 46
4350 Storm/S	anitary - Gravity Main	2427 EVANS A	VENUE			Catch Basin Lead Gravity Main	Storm		15	1986 75 45				6	6 Average Possible 6 Average Possible			2054	10	2062		2138	46				0			137 46
	anitary - Gravity Main anitary - Gravity Main	2.2.				Catch Basin Lead Gravity Main	Storm		8	1000 10 10	30 \$ 2,40			6	Average Possible			2054	10	2062	2062		46				0		2062 213	
	anitary - Gravity Main anitary - Gravity Main	2413 HENRY S 2413 HENRY S				Collector Gravity Main Catch Basin Lead Gravity Main	Storm		7	1986 75 45 1986 75 45	30 \$ 28,13 30 \$ 2,06			6	6 Average Possible 6 Average Possible	Moderate Moderate	2	2054 2054	10	2062 2062	2062 2062		46 46				0	2062 2062	2062 213 2062 213	137 46 137 46
4354 Storm/S	anitary - Gravity Main	2413 HENRY S				Collector Gravity Main	Storm	300	63	1986 75 45	30 \$ 19,73			6	Average Possible	Moderate N	2	2054	10	2062	2062 2062		46				0	2062	2062 213	137 46
	anitary - Gravity Main anitary - Gravity Main	2399 MILL STE 2397 STATION				Catch Basin Lead Gravity Main Outfall Gravity Main	Storm		32	1986 75 45 1986 75 45	30 \$ 2,70 30 \$ 9,93			6	S Average Possible S Average Possible		2	2054 2054	10	2062 2062	2062 2062		46 46				0	2062 2062	2062 213 2062 213	
4357 Storm/S	anitary - Gravity Main	2447 JAMES S	REET			Catch Basin Lead Gravity Main	Storm	300	6	1986 75 45	30 \$ 2,02	4 \$ 810 \$ 1,214	\$ 4,333	6	Average Possible	Moderate N	2	2054	10	2062	2062	2138	46				0	2062	2062 213	137 46
	anitary - Gravity Main anitary - Gravity Main					Catch Basin Lead Gravity Main Collector Gravity Main	Storm		7 50	1006 75 46	30 \$ 2,14	2 6 6 212 6 0 460		6	6 Average Possible 6 Average Possible		2	2054 2054	10	2062	2062 2062	2138 2138	46 46				0	2062 2062	2062 213 2062 213	137 46 137 46
4360 Storm/S	anitary - Gravity Main	2447 JAMES S	REET			Collector Gravity Main	Storm	300	54	1986 75 45 1986 75 45 1986 75 45 1986 75 45 1986 75 45	30 \$ 17,03	1 \$ 6,813 \$ 10,218	\$ 36,457	6	Average Possible	Moderate N	2	2054	10	2062	2062	2138	46				0	2062	2062 213	137 46
4361 Storm/S	anitary - Gravity Main anitary - Gravity Main	2425 MILL STE	EET FET			Collector Gravity Main Collector Gravity Main	Storm Storm	300 300	80 45	1986 75 45 1986 75 45	30 \$ 24,99	6 \$ 9,998 \$ 14,998 8 \$ 5,651 \$ 8,477		6	Average Possible Average Possible	Moderate Moderate	2	2054 2054	10	2062 2062	2062	2138 2138	46 46				0	2062 2062	2062 213 2062 213	137 46 137 46 137 46
4363 Storm/S	anitary - Gravity Main	2425 MILL STE	EET			Catch Basin Lead Gravity Main	Storm	300	9	1986 75 45	30 \$ 2,80	9 \$ 1,123 \$ 1,686	\$ 6,012	6	Average Possible	Moderate M	2	2054	10	2062	2062	2138	46				0	2062	2062 213	137 46
4364 Storm/S	anitary - Gravity Main anitary - Gravity Main	2425 MILL STE	EET			Outfall Gravity Main Collector Gravity Main	Storm	300 300	60	1986 75 45 1986 75 45	30 \$ 18,84	8 \$ 7,539 \$ 11,309 9 \$ 1,860 \$ 2,789		6	6 Average Possible 6 Average Possible	Moderate N	2	2054 2054	10	2062 2062	2062 2062	2138 2138	46 46				0	2062 2062	2062 213 2062 213	137 46 137 46
4366 Storm/S	anitary - Gravity Main	2425 MILL STE	EET			Collector Gravity Main	Storm	300	53	1986 75 45	30 \$ 16.53	1 \$ 6.612 \$ 9.919	\$ 35,385	6	Average Possible	Moderate N	2	2054	10	2062	2062	2138	46				0		2062 213	137 46
4367 Storm/S	anitary - Gravity Main	2425 MILL STE	EET			Collector Gravity Main	Storm	300	50		30 \$ 15,53	0 \$ 6,212 \$ 9,318	\$ 33,243	6	Average Possible	Moderate N	2	2054	10	2062	2062	2138	46				0	2062	2062 213	137 46
4369 Storm/S	anitary - Gravity Main anitary - Gravity Main	2398 STATION	STREET			Collector Gravity Main Collector Gravity Main	Storm Storm	300 300	39 73	1990 75 49	26 \$ 18,60 26 \$ 34,27	4 \$ 6,449 \$ 12,155 4 \$ 11,882 \$ 22,392	\$ 26,465 ! \$ 48,755	7	7 Good Unlikely 7 Good Unlikely	Moderate M	2	2058 2058	10	2066 2066	2066 2066	2142 2142	50 50				0	2066 2066	2066 214 2066 214	141 50 141 50
4370 Storm/S	anitary - Gravity Main	2398 STATION	STREET			Collector Gravity Main	Storm	300	71	1990 75 49	26 \$ 33,33	2 \$ 11,555 \$ 21,777	\$ 47,415	7	Good Unlikely	Moderate M	2	2058	10	2066	2066	2142	50				0	2066	2066 214	141 50
Storm/	anitary - Gravity Main anitary - Gravity Main	2415 STATION	STREET			Catch Basin Lead Gravity Main Catch Basin Lead Gravity Main	Storm Storm		15	1990 75 49 1990 75 49	26 \$ 1,91 26 \$ 7 17	2 \$ 663 \$ 1,249 0 \$ 2,485 \$ 4,685		7	7 Good Unlikely 7 Good Unlikely 7 Good Unlikely	Moderate M	2	2058 2058	10	2066 2066	2066 2066	2142 2142	50 50				0	2066 2066	2066 214 2066 214	141 50 141 50
4372 Storm/S		1 2	STREET			Catch Basin Lead Gravity Main	Storm Storm	300	9	1990 75 49 1990 75 49	26 \$ 4,20	0 \$ 2,485 \$ 4,685 1 \$ 1,456 \$ 2,745	\$ 5,976	7				2058	10	2066		2142 2142	50				0	2066	2066 214	141 50 141 50 141 50
4372 Storm/S 4373 Storm/S	anitary - Gravity Main	2398 STATION	CTOCCT				-	e																						
4372 Storm/S 4373 Storm/S 4374 Storm/S	anitary - Gravity Main anitary - Gravity Main anitary - Gravity Main	2415 STATION	STREET			Outfall Gravity Main Catch Basin Lead Gravity Main	Storm Storm		120 2	1990 75 49 1990 75 49	26 \$ 56,46 26 \$ 1.13	2 \$ 19,574 \$ 36,888 0 \$ 392 \$ 738		7	Good Unlikely Good Unlikely	Moderate M	2	2058 2058	10	2066 2066		2142 2142	50 50	+ +			0		2066 214 2066 214	141 50 141 50

Amai	anth	

Current Leveles of Service

sets aft	er 2017 Revie	N																					Replacen	nent/Improvem	nent Year Based	on Current Levels	Service						Replaceme	ent/Improvement '	Year Based o	n Expected Levels	Service	
Fixed Asset		Asset Name	Road Section GIS ID	Road Name	Address C	/olume apacity Water T (m3)	Type Inst	tall Useful ar Life	Remaining Useful Life	Age I	Historic Cost Acr	2015 cumulated nortization	2015 Net Book Value	Replacemen Cost	Condition Based On Useful Life	Assessed Condition	Condition Used for Analysis	Asset Condition (As per Priority Rating)	Probability of Failure (Based on Condition or Expected Condition)	Consequence of Failure	Risk of Failure	Numerical Value of Risk of Failure	Year Replacement due to minimmal maintenance practices	Current Levels of Service % benefit	Revised Levels Service Replacement Year	Year Replacemen Applying Risk Score	Subsequent Replacement Year	Revised Remaining Useful Life	Rehabiliatio Year	n Rehabiliatio Cost (2016	n Subsaquer) Rehab Yea	nt Subsaque ar Rehab Cos	Extended nt Life (Years) sts due to Betterment	Expected Levels of Service % benefit over Current	Revised Levels Service eplacement Year	Year Replacement Su Applying Risk Rep Score - or Staff Override	ubsequent eplacement Year	Revised Remaining Useful Life
									73	28 \$	36,615 \$	9,980	26,635	\$ 80,000)		7.0					2								\$ 5,50	0	\$ 2,5	00					
4377	DetentionPor	d Storm Retention Pond - JAMES STREET	2447	JAMES STREET		Storm	19	986 100	70	30	\$11,514	\$3,454	\$8,060	\$30,00	0 7		7	Good	Unlikely	Moderate	M	2	2076	10	0 2086	2086	2186	70	2017	\$4,0	00 20	27 \$1,0	000	0	2086	2086	2186	70
4378	DetentionPor	d Storm Retention Pond - ST. JOHN STREET	2417	ST. JOHN STREET		Storm	19	990 100	74	26	\$25,101	\$6,526	\$18,575	\$50,00	0 7		7	Good	Unlikely	Moderate	M	2	2080	10	0 2090	2090	2190	74	2017	\$1,5	00 20	27 \$1,	500	0	2090	2090	2190	74



Appendix B

Draft Data Verification and Condition Assessment Policy

APPENDIX B: Draft Data Verification and Condition Assessment Policy

Data Verification

- 1. The main source of asset data updating and editing will be through Township of Amaranth's PSAB 3150 compliance procedures and/or annual reporting process.
- Asset additions, disposals, betterments, and write-offs will be recorded based on the Township's PSAB 3150 Compliance Policies and/or general updates to the Asset Management Spreadsheets.
- 3. Verification of the correct treatment of asset revisions will be completed through frequent annual reviews by Township staff, as well as an annual review by the Township's auditor.
- 4. During years which condition assessments are not being performed, asset replacement cost will be determined based on a combination of inflating previous values or through the use of the current year's historical invoice data. Where indices are being used, the Non-Residential Building Construction Price Index (NRBCP) shall be used for construction related assets (i.e., infrastructure) and Consumer Price Index (CPI) shall be used for all other assets (i.e., furniture, interior finishes, appliances, etc.).

Condition Assessment

- 1. Condition assessments shall be performed as outlined in Table B-1 below.
- 2. Condition assessments shall be performed by qualified individuals (or companies) and shall include a review of the following:
 - a) Current asset condition (consistent with the rating format used within this report, unless the Township stipulates a new format, or regulatory body required format);
 - i. Identify any unusual wear from asset use that may hinder asset performance and eventually reduce useful life.
 - ii. Assess asset performance and identify (if any) capital improvements that can be applied to extend the asset's useful life and/or bring the asset back to proper service levels.
 - b) Current asset replacement cost. This is to be based on replacing the asset under current legislation/requirements using Township specification; and
 - c) Remaining service life, assuming current identified maintenance and usage levels.

Table B-1

Condition Assessment Time Table

Asset Type	Frequency of Condition Assessment	Comments
Bridges	Every two years	As per Provincial Regulation using OSIM Inspection format
Equipment (Office, Other)		As identified by Staff, so Equipment is safe and in good working order
Facilities	Every ten - fifteen years	Complete detailed assessment every ten years but annual staff and specialized inspection/cleaning of some components (eg. HVAC, Fans, Pumps, etc.)
Land Improvements (Playing Surfaces, Parking Lots, Parks, Landscaping)	Annually	Staff assessment annually
Roads	Every five - ten years	Complete Roads Needs study every five years but internal staff review annually
Road Signs		As per Regulation 239 Minimum Maintenance Standards
Sidewalks		As per Regulation 239 Minimum Maintenance Standards
Software & Hardware		As identified by Staff, so software and hardware operating well
Storm Water Mains	Every fifteen years	CCTV scans and review of Storm Water system
Storm Water (Catch Basins, Manholes, Stormceptors)	Annually	To be assessed while doing a clean out
Street Lights	Every month	To ensure they are working
Vehicles		As per Manufacturer's Warranty and Maintenance Program
Generators	Every season	Minimum four times per year

Appendix B - Data Verification Condition Assessment Policy.Docx 5/30/2017 1:19 PM



Appendix C

20 Year Detailed Asset Management Strategy & Financing Strategy

			Level of Service (LO	S) Analysis		
	Expected Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Estimated Cost of Expected LOS	Cost Description
	Safe Roads	Meet "Minimum Maintenance Standards" as defined by Ontario Regulation 239/02.	Meet "Minimum Maintenance Standards" as defined by Ontario Regulation 239/02.	Regulation Standard	\$1,800	Township may want to incorporate a system that will assist in proving compliance to the Provincial Regulation
	Fix Public Identified Issues Quickly	Track complaints and resolve then as quickly as possible	Track complaints by road segment.	Respond to Public Inquiry within 7 days		Township delivers the Level of Service well
Roads & Related	Maintain Road System Network Condition for safe use		Maintain adequate road network condition index to ensure safe roads	Assess Road Conditions every 10 years with Internal assessment annually	\$25,000 + \$15,000 + \$8,500	Roads Needs Study every 10 years to include Network Condition analysis, and crack seal program and line painting
Assets	Asphalt Roads are Clean and Clear		Roads are swept and flushed to ensure they are clear of debris and safe.		\$8,500	Township delivers the Level of Service well
	Gravel Roads are well maintained and Dust Inhibited	Gravel roads are smoothed when required, and Calcium Chloride applied to control dust	Gravel roads are smoothed when required, and Calcium Chloride applied to control dust		\$110,000	Township delivers the Level of Service well
	Safe and well maintained Roadsides	Township provides brushing, ditching, grass mowing, and shoulder maintenance to ensure roadsides are safe and well maintained	Roadsides are clear of obstructions and well maintained for safe road travel.		\$1,000	Township delivers the Level of Service well
	Signs can be seen clearly	Signs: Visual inspections done in the evening. Replaced when required/needed.	Signs: Visual inspections. Replace when needed.	Reflectivity Standard		Township delivers the Level of Service well
	Sidewalks are clear and Safe	Visual Inspections done annually	Annual visual inspections correcting all identified deficiencies	Regulation Standard		Township delivers the Level of Service well
	Safe Well lit Urban/Semi-Urban Street areas	Maintenance activated by Public Notice for Street Lights	Maintenance activated by Public Notice for Street Lights	Correction of Issues within MMS	\$45,000	Recommendation for conversion to LED lights

			Level of Service (LOS	S) Analysis		
	Expected Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Estimated Cost of Expected LOS	Cost Description
Bridge & Culvert	Safe Bridges	Maintain good bridge condition and 8 bridges with load limits.	Maintain good condition and no load limits.	MTO bridge guides		Township is working towards completing this LOS. Closed Bridge 17 will be re-opened after new construction in 2017, and Bridge 15 will be replaced.
Assets			Proactive Bridge and Culvert maintenance (based on bridge report).		\$100,600	Township is completing this LOS, with improving the maintenance issues identified in the Township's Bridge Inspectio Report over the next 10 years. Required funds are identified in the LOS tables
		Blowing out Expansion Joints & Washing of Bridges in Spring	Blowing out Expansion Joints & Washing of Bridges in Spring	li .		Township is completing this LOS
	Bridge Inspections		Bridge inspections (i.e. using OSIM reports) required every 2 years.	Completed every 2 years	\$7,800	Township is completing this LOS

			Level of Service (LO	S) Analysis		
	Expected Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Estimated Cost to Move to Expected LOS	Cost Description
	Safe Buildings	Meet legislative requirement (Building Code, Fire Code, Health & Safety, etc.)	Meet legislative requirement (Building Code, Fire Code, Health & Safety, etc.)	Provincial Guidelines		Township is completing this LOS
	Maintained		Facility Condition Assessments showing remaining life of major asset components and required improvements completed			On-Site inspections completed when required
		Health & Safety component assessments to ensure emergency alarms, lighting, generators, etc. are functioning to specifications	Health & Safety component assessments to ensure emergency alarms, lighting, generators, etc. are functioning to specifications	Provincial Guidelines		Township is completing this LOS
Building Assets	All Facilities meet Accessibility Standards	All facilities meeting current accessibility standards.	All Facilities meet accessibility standards.	Provincial Guidelines		Township is completing this LOS
	Maximizing Energy Savings	Energy Audit has been undertaken by the Township	Resource Efficiency: Energy Audit - for all facilities			Township does not have any outstanding issues to complete from the Energy audit for buildings
		Reverse Osmosis and water coolers are used to ensure safe drinking water.	Water is tested regularly and safe to drink	Provincial Guidelines		Township is completing this LOS
	Mechanical Systems are Inspected and Maintained	HVAC systems are inspected and maintained annually	Assess efficiencies in Maintenance contracts (i.e. generators, HVAC).			Township is completing this LOS
	Clean and well Maintained Facilities	Township has well maintained facilities	Proactive facility maintenance.			Township is completing this LOS

			Level of Service (LO	S) Analysis		
	Expected Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Estimated Cost to Move to Expected LOS	Cost Description
	Safe & Accessible Parks	Meet legislative requirement (Inspections, Health & Safety etc.)	Meet legislative requirement (Inspections, Health & Safety, etc.)	Provincial Guidelines		Township Staff complete inspections
		Condition assessments performed when needed. Monthly inspections of playground equipment.	Monthly inspections of playgrounds and equipment	Provincial Guidelines		Township is completing this LOS
Land		Health & Safety component assessments to ensure functioning to specifications	Health & Safety component assessments to ensure functioning to specifications	Provincial Guidelines		Appropriate maintenance measures are being undertaken by the Township.
Improvements	Parking Facilities are in Good Condition	Maintenance for Parking areas when required	Annual Inspections for maintenance for Parking areas			Township staff to complete and report
	Sports Fields are Safe and Maintained	Appropriate Maintenance for safe use	Appropriate Maintenance for safe use			Township is completing this LOS
	Township Trails are Safe and Maintained	Appropriate Maintenance for safe use	Appropriate Maintenance for safe use			Township is completing this LOS
	Fencing Is Safe	Responding to Public complaints	Annual inspection and fixing of maintenance issues	Annual Review		Township to review when complaints submitted. Inspections are completed by staff

			Level of Service (LOS	S) Analysis		
	Expected Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Estimated Cost to Move to Expected LOS	Cost Description
Vehicles & Equipment		Proactive maintenance plan, as per Manufacturer's Guidelines	Proactive maintenance plan, as per Manufacturer's Guidelines			Township is completing this LOS
Assets		Proactive maintenance plan, as per Manufacturer's Guidelines	Proactive maintenance plan, as per Manufacturer's Guidelines			Township is completing this LOS
	of Vehicles &	Replace Equipment/Vehicles as required (some areas based on legislated replacements, others minimum safety).	Replace Equipment/Vehicles as required (some areas based on legislated replacements, others minimum safety).			Some concern over the age of some of the vehicles/equipment the Township uses, however they are safe to use. The older vehicles are being used sparingly

			Level of Service (LOS	S) Analysis		
	Expected Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Estimated Cost to Move to Expected LOS	Cost Description
Storm Water		Investigate and respond based on public complaints/concerns		No storm water back- up incidents		Township is completing this LOS
Assets	Catch Basins are clear and well Maintained	Annual Catch Basin cleaning	Annual Catch Basin cleaning		\$2,000	Township is completing this LOS
	Storm Water Mains are clear and well Maintained	No identified issues	CCTV review and assessment completed every 15 yrs. Implement plan for repairs & maintenance that result in system efficiencies.		\$20,000	CCTV program every 15 years

			Level of Service (LO	S) Analysis		
	Expected Strategic LOS	Current LOS	Expected LOS	Benchmark (if Applicable)	Estimated Cost of Expected LOS	Cost Description
	Source Water is well Protected	Maintaining appropriate Zoning and Planning to ensure Source Water Protection	Maintaining appropriate Zoning and Planning to ensure Source Water Protection			Township is completing this LOS
	Production Wells are well Maintained	Appropriate maintenance is undertaken when required	Appropriate maintenance is undertaken when required			Township is completing this LOS
	Requirements	Meet all legislative requirements.	Meet all Provincial legislative requirements.	Provincial Guidelines		Township is completing this LOS
Water Assets	Well Maintained Generator	Tested monthly	Tested and well maintained generators		\$3,000	Township is completing this LOS. Annual service maintenance
	Appropriate Water Storage for Distribution Network	Water Storage is sufficient for currently approved developments. Beyond that the system may be reaching capacity levels	Water Storage meets the needs of the Water Distribution Network		\$5,000	Need to address capacity if the Township wishes to grow beyond the current approved development in the Waldemer area. Use robotic camera every 5 years to inspect storage tank.
	Efficient Water Distribution System	Water losses are tracked and at a minimum	Water Losses are tracked and minimized		\$2,000	Township is completing this LOS. Annual effort to gain access to exersize valves.
		Water pressure meets and exceeds Fire Protection Standards with over 50psi at high point and over 90psi at pump house	Water Pressure meets Fire Protection Standards of 50psi			Township is completing this LOS
	Hydrants are Flushed and Swabbed	System is flushed twice a year, and annual refirbishing program	Flushing Program meets Guideline Standards		\$5,000	Township is completing this LOS. Annual referbishing program

Tax Supported Assets

Asset Type Replacement - Uninflated Road Surface - Asphalt Road Surface - Gravel	2017 1,081,200 - 32,000	2018 709,734 250,884 32,000	2019 866,949 533,830 32,000	2020 763,254 362,654 32,000	2021 1,001,901 647,101 32,000	2022 829,126 738,115 32,000	2023 796,482 274,163 32,000	2024 1,042,137 234,459 32,000	2025 863,244 - 32,000	2026 517,000 - 32,000	2027 1,003,412 231,934 32,000	2028 337,047 151,082 32,000	2029 988,441 216,027 32,000	2030 623,500 - 32,000	2031 1,234,677 50,108 32,000	2032 603,510 - 32,000	2033 861,584 250,884 32,000	2034 911,509 533,830 32,000	2035 849,418 362,654 32,000	2036 1,050,701 647,101 32,000	TOTAL 16,934,827 5,484,828 640,000
Road Surface - Graver Road Base Bridge & Culverts Facilities	700,000		-	-		-	450,000	-	700,000 5,000	150,000	700,000		650,000	275,000	700,000 5,000	-	32,000			25,000	4,050,00 310,00
Sidewalks Signs Barriers	4,500	4,500	4,500	4,500	4,500	4,500 811	4,500	4,500	4,500	4,500	4,500 4,759	4,500	4,500 4,864	4,500	4,500	4,500 4,710	4,500	4,500	4,500	4,500	90,00
Street Lights Cross Road Culverts Storm Mains	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	8,015 4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	90,00
Catch Basin Storm Manhole	-	-	-	-	-		-	-	-	-		-	-		-	-	-	-	-	-	-
Storm Pond Discharge Point Vehicles	307,000	415,000	275,000	300,000	307,000	-	30,000	690,000	32,000	275,000	-	-	32,000	275,000	415,000	430,000	522,000	275,000	415,000	275,000	5,270,00
Software & Hardware Land Improvements	8,000 25,200	350 2,500	400 16,719	42,500 17,100	1,100 5,700	18,200 25,000 6,000	719 -	40,850 20,828 15,000	67,544 2,700 15,000	25,000 20,500 5,500	17,500 8,219	46,850 17,100 73,000	850 18,700 25,000	30,000 2,500	4,850 18,719	28,200 9,600 90,000	45,000 2,700	40,450 21,228	30,044 719	37,000 20,100 5,500	485,28 256,55 235,00
Asset Type Rehabilitation - Uninflated	2017	2018 153,500	2019 360,000	2020	2021 149,800	2022	2023	2024	2025	2026	2027	2028 75,000	2029	2030	2031	2032	2033	2034	2035	2036	TOTAL 1,046,67
Road Surface - Asphalt Road Surface - Gravel Road Base	-	4,000	100.000	80.000	-	-	-	-	-	-	-	-	-			-	- 1	-	-	-	180,00
Bridge & Culverts Facilities Sidewalks	34,000	129,500	260,000	75,000	137,800 12,000	-	105,000	-	-	-		75,000			-	-	-	-	-	-	502,80 325,50
Signs Barriers Street Lights																					
Cross Road Culverts Storm Mains Catch Basin																					-
Storm Manhole Storm Pond Discharge Point	4,376	-	-		= =====================================	-	-		-	-	-	-	-	-	-		-			-	4,37
Vehicles Equipment Software & Hardware	-	20,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20,00
Land Improvements	-	-	- !	10,000	-		-	-		-	- 1	-	-	- 1	-		- 1	*	-	-	10,00
Asset Type Total Scheduled Capital - Ur Road Surface - Asphalt	2017 1,276,436 33,800	2018 1,097,894 313,684	2019 1,384,309 567,630	2020 1,093,414 396,454	2021 1,309,061 680,901	994,286 771,915	2023 1,058,842 307,963	2024 1,207,297 268,259	2025 1,020,604 33,800	2026 682,660 33,800	2027 1,150,712 265,734	2028 592,647 209,882	2029 1,135,741 249,827	2030 779,100 33,800	2031 1,401,977 83,908	759,360 33,800	2033 1,008,884 284,684	2034 1,066,609 567,630	2035 997,468 396,454	2036 1,205,801 680,901	TOTAL 21,223,10 6,214,82
Road Surface - Gravel Road Base Bridge & Culverts	142,000 1,000 710,060	142,000 1,000 17,860	142,000 101,000 270,060	142,000 81,000 17,860	142,000 1,000 147,860	142,000 1,000 17,860	142,000 1,000 565,060	142,000 1,000 17,860	142,000 1,000 710,060	142,000 1,000 167,860	142,000 1,000 700,000	142,000 1,000 7,800	142,000 1,000 650,000	142,000 1,000 7,800	142,000 1,000 700,000	142,000 1,000 7,800	142,000 1,000	142,000 1,000 7,800	142,000 1,000	142,000 1,000 7,800	2,840,00 200,00 4,731,40
Facilities Sidewalks Signs	34,000 - 4,500	129,500 - 4,500	4,500	75,000 - 4,500	12,000 - 4,500	4,500	4,500	4,500	5,000 - 4,500	500 4,500	4,500	75,000 500 4,500	4,500	275,000 500 4,500	5,000 - 4,500	750 4,500	4,500	4,500	750 4,500	25,000 - 4,500	635,50 3,00 90,00
Barriers Street Lights Cross Road Culverts	4,500	45,000 4,500	500 4,500	500 4,500	500 4,500	811 500 4,500	500 4,500	500 4,500	500 4,500	500 4,500	4,759 500 4,500	8,015 500 4,500	4,864 500 4,500	500 4,500	500 4.500	4,710 500 4,500	500 4,500	500 4,500	500 4,500	500 4.500	23,15 54,00 90.00
Storm Mains Catch Basin Storm Manhole	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	20,000	2,000	2,000	2,000	2,000	2,000	20,000 40,000
Storm Pond Discharge Point Vehicles	4,376 - 307,000	415.000	275,000	300.000	307,000		30,000	690,000	-	275,000	-	-	32,000	275,000	415.000	430,000	522,000	275,000	415,000	275,000	4,37 - 5,270,00
Equipment Software & Hardware Land Improvements	8,000 25,200	20,350 2,500	400 16,719	42,500 17,100 10,000	1,100 5,700	18,200 25,000 6,000	600 719	40,850 20,828 15,000	32,000 67,544 2,700 15,000	25,000 20,500 5,500	17,500 8,219	46,850 17,100 73,000	850 18,700 25,000	30,000 2,500	4,850 18,719	28,200 9,600 90,000	45,000 2,700	40,450 21,228	30,044 719	37,000 20,100 5,500	505,28 256,55 245,00
Levels of Service Costs - Uninflate	nd.									-							<u>'</u>				
Asset Type Total Scheduled LOS	2017	2018 234,660	2019 157,360	2020	2021 157,360	2022 165,160	2023 157,360	2024 165,160	2025 157,360	2026	2027	2028	2029	2030 155,600	2031	2032 155,850	2033	2034 155,100	2035 148,050	2036 155,100	TOTAL 3,241,60
Road Surface - Asphalt Road Surface - Gravel	33,800 110,000	58,800 110,000	33,800 110,000	33,800 110,000	33,800 110,000	33,800 110,000	33,800 110,000	33,800 110,000	33,800 110,000	33,800 110,000	33,800 110,000	58,800 110,000	33,800 110,000	33,800 110,000	33,800 110,000	33,800 110,000	33,800 110,000	33,800 110,000	33,800 110,000	33,800 110,000	726,00 2,200,00
Road Base Bridge & Culverts Facilities	1,000 10,060	1,000 17,860	1,000 10,060	1,000 17,860	1,000 10,060	1,000 17,860	1,000 10,060	1,000 17,860	1,000 10,060	1,000 17,860	1,000	1,000 7,800	1,000	1,000 7,800	1,000	1,000 7,800	1,000	1,000 7,800	1,000	1,000 7,800	20,00 178,60
Sidewalks Signs Barriers										500		500		500		750			750		3,00
Street Lights Cross Road Culverts Storm Mains		45,000	500	500	500	500	500	500	500	500	500	500	500	500	20,000	500	500	500	500	500	54,00 20,00
Storm Manhole Storm Pond	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2.000			2,000	40,00
Discharge Point Vehicles Equipment																	-,,,,,	2,000	2,000		
Software & Hardware																		2,000	2,000		
Land Improvements																		2,000	2,000		
Land Improvements Water Assets																		2,000	2,000		
Water Assets Total Replacement Water Capital Asset Type	- Uninflated	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2,000	2,000	2036	TOTAL 125,00
Water Assets Total Replacement Water Capital	- Uninflated 2017 -	2018	2019	2020	2021 125,000 125,000	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	-				2036	125,00
Water Assets Total Replacement Water Capital Asset Type Total Replacement Water Capital Water Facilies & Compone Water Mains Water Facilies Water Fatings Water Fittings Water Valves Water Water Salves	- Uninflated 2017	2018	-	2020	125,000 125,000	-	-	2024	2025	2026		-	2029	2030	2031	2032	2033			2036	125,00
Water Assets Total Replacement Water Capital Asset Type Total Replacement Water Cal Water Facilities & Componel Water Lateral Lines Water Lateral Water Main	- Uninflated 2017	2018	-	2020	125,000 125,000	-	-	2024	2025	2026		-	2029	2030	2031	-	2033			2036	125,00
Water Assets Total Replacement Water Capital Asset Type Total Replacement Water Capital Asset Type Total Replacement Water Capital Water Facilities & Compone Water Lateral Lines Water Matings Water Valves Water Water Water Water Total Rehabilitiation Water-Uninfie Asset Type Asset Type	2017		-	2020	125,000 125,000 	-		2024		2026		-	2029	2030		-	2033		2035	2036	125,000 125,000
Water Assets Total Replacement Water Capital Asset Type Total Replacement Water Capital Asset Type Total Replacement Water Capital Water Facilities & Compone Water Facilities & Compone Water Lines Water Lines Water Lines Water Hydrant Water Firdings Total Rehabilitation Water- Uninfig. Asset Type Total Rehabilitation Water- Water Water Facilities & Compone Water Facilities & Compone	2017	-	-		125,000 125,000 - - - - - - - -	-				-				-		-	2033	2034	2035	- - - - - - -	125,00 125,00 - - - - - - - - - - - - - - - - - -
Water Assets Total Replacement Water Capital Total Replacement Water Capital Total Replacement Water Capital Water Salities & Compose Water Mains Water Laties & Compose Water Mains Water Laties Water Laties Water Laties Water Laties Total Rehabilitation Water- Water Water Salities Total Rehabilitation Water- Water	2017	2018	-		125,000 125,000 	-				-				-		-	2033	2034	2035 	- - - - - - -	125,000 125,000 - - - - - - - - - - - - - - - - - -
Water Assets Total Replacement Water Capital Asset Type Total Replacement Water Capital Water Facilities & Componel Water Facilities & Componel Water Facilities & Componel Water Verlage Water Fittings Water Verlage Water Hydrant Water Wells Total Rehabilitation Water Total Rehabilitation Water Unified Research Water Verlage & Componel Water Lateral Lines Water Lateral Lines Water Lateral Lines Water Lateral Lines	2017	2018	-		125,000 125,000 	-				-				-		-	2033	2034	2035 	- - - - - - -	125,00 125,00 125,00
Water Assets Total Replacement Water Capital State Type Total Replacement Water Capital Replacement Water Capital Replacement Water Capital Water Mains Water Later Mains Water Later Mains Water Later Mains Water Later State Water Weils Total Rehabilitation Water- Unwiff Asset Type Total Rehabilitation Water- Unwiff Total Rehabilitation Water- Water Weils Water Water Mains Water Later Mains Water Later Mains Water Later Mains Water Later Lines Water Later Lines Water Later Lines Water Hydrant Water Hydrant Water Water Sales Water Sales Water Water Sales Water Sales Water Water Sales Water Sal	2017	2018 6,000 6,000	2019	2020	125,000 125,000 125,000 125,000 12,000 12,000	2022	2023 12,000 12,000	2024	2025 12,000 12,000	2026	2027	2028	2029	2030	2031 15,000 15,000	2032	2033	2034	2035 	2036	125,000 125,00
Water Assets Total Replacement Water Capital Asset Type Total Replacement Water Capital Total Replacement Water Capital Water Facilities & Compone Water Lines Water Wat	2017	2018	-		125,000 125,00	-	2023		2025	-				-		-	2033	2034	2035 	- - - - - - -	125,000 125,00
Water Assets Total Replacement Water Capital Asset Type Total Replacement Water Capital Total Replacement Water Capital Water Manns Water Mains Water Lines Water Lines Water Hydrant Water Hydrant Water Hydrant Water Total Rehabilitation Water- Uninfile Asset Type Total Rehabilitation Water- Water Water Facilities & Compone Water Lateral Lines Water Hydrant Water Hydrant Water Hydrant Water Hydrant Water Hydrant Water Hydrant Water Water Water Scheduled Water Capital Water Scheduled Water Capital Water Water Water Water Water Scheduled Water Capital Water Lateral Water Lateral Water Lateral Lines Water Lateral Lines Water Lateral Lines Water Lateral	2017	2018 6,000 6,000 6,000 2018 15,000 9,000	2019	2020 2020 10,000 3,000	125,000 125,000 125,000 12,000 2021 27,000 15,000 12,000	2022 2022 2022 10,000 3,000	2023 12,000 12,000 2023 2023 2023 2023	2024	2025 12,000 12,000 2025 2000 3,000	2026	2027 2027 2027 10,000 3.00	2028 2028 2028 2028 2028	2029	2030	2031 2031 15,000 15,000 2031 25,000	2032 2032 2032 3,000	2033	2034	2035 	2036	125,00 12
Water Assets Total Replacement Water Capital Asset Type Total Replacement Water Ca Water Facilities & Componel Water Facilities & Componel Water Facilities & Componel Water Water Water Water Water Water Water Vells Water Hydrant Water Liveria Water Liveria Water Liveria Water	2017	2018 8,000 6,000 6,000	2019	2020 2020 2020 10,000 10,000	125,000 125,00	2022	2023 12,000 12,000	2024 2024 10,000	2025 12,000 12,000	2026	2027	2028	2029	2030	2031 2031 2031 2031 2031	2032	2033	2034	2035	2036	125,00 12
Water Assets Total Replacement Water Capital Sester Type Total Replacement Water Capital Sester Type Total Replacement Water Capital Water Mains Water Lesteral Lines Water Settings Water Settings Water Lesteral Lines Water Very Settings Water Lesteral Lines Water Wels Water Levels of Service	2017	2018 6,000 6,000 10,000 2018 2018 2018 2000 2,000 5,000	2019 2019 2019 10,800 3,000 5,000 5,000	2020 2020 2020 10,660 3,000 5,000 5,000	125,000 125,000 125,000 125,000 12,000	2022 10,000 3,000 2,000 5,000	2023 12,000 12,000 12,000 2023 2023 2000 3,000 2,000 5,000 12,000	2024	2025 12,000 12,000 12,000 2025 2025 22,000 3,000 2,000 5,000 12,000	2026 2026 2026 2026 2026 2026 2026 2026	2027 2027 2027 10,000 3,000 2,000 5,000	2028 2028 2028 2028 10,000 3,000 2,000 5,000	2029 2029 2029 10,000 3,000 2,000 5,000	2030 2030 2030 10,600 3,000 5,000	2031 15,000 15,000 15,000 2031 2031 2031 2031 2031 2031 2031	2032	2033 	2034 	2035 	2036 10,800 3,000 2,000	125,00 125,00 125,00 125,00 125,00 125,00 100 100 100 100 100 100 100 100 100
Water Assets Total Replacement Water Capital Asset Type Total Replacement Water Capital Asset Type Total Replacement Water Capital Water Lacities & Compone Water Mains Water Lacities & Compone Water Water Valves Water	2017	2018 6,000 6,000 6,000 7,000 8,000 9,00 9,00 9,000 9,000 9,000 9,000 9,000 9,000 9,000 9,000 9,0	2019 2019 2019 2019 2019 2019 2019 2019	2020 2020 2020 2020 3.000 5.000 5.000 5.000 2020 2020 2020 20	125,000 125,000 125,000 125,000 15,000 15,000 14,000 5,000 12,000	2022 2022 10,000 3,000 	2023 12,000 12,000 12,000 12,000 2023 2023 2,000 3,000 5,000 12,000 12,000	2024 2024 10,000 5,000 5,000 2,000 5,000 2,000 5,000 2,000 5,000 2,000 5,000 2,000 5,000 5,000 2,000 5,000	2025 12,000 12,000 12,000 12,000 2025 2025 2,000 5,000 12,000 12,000	2026 2026 10,000 5,000 5,000 5,000 2026 10,000 10,0	2027 2027 2027 2027 2027 2027 2027 2027	2028 2028 2028 10,600 3,000 5,000 5,000	2029 2029 2029 10,000 3,000 2,000 5,000 5,000	2030 2030 2030 3,000 5,000 5,000 2030 10,000	2031 15,000 15,000 15,000 2051 2051 2051 2051 2051 2051 2051 2	2032 2032 2032 2032 2032 2032 2032 2032	2033	2034	2035 	2036 2036 10,000 3,000 2,000 5,000 2036	125,00 125,00 125,00 125,00 125,00 125,00 100 100 100 100 100 100 100 100 100
Water Assets Total Replacement Water Capital Asset Type Grad Replacement Water Capital Water Pacifies & Compone Water Facilities & Compone Water Facilities & Compone Water Straye Water Lines Water W	2017	2018 2018 6,000 6,000 6,000 100	2019 2019 2019 2019 2019 2019	2020 2020 2020 2020 2020 2020 2020 202	125,000 125,000 125,000 125,000 12,000 143,000 12,000	2022 2022 2022 2022 2022 2022 2022 202	2023 12,000 12,000 12,000 2023 203 2000 12,000	2024 2024 2024 2024 2024 2024 2024 2024	2025 12,000 12,000 12,000 2025 22,000 3,000 	2026 2026 2026 2026 2026 2026 2026 2026	2027 2027 2027 2027 2027 2027 2027 2027	2028 2028 2028 2028 2028 2028 2028 2028	2029 2029 2029 2029 2029 2029 2029	2030 2030 2030 2030 2030 2030 2030	2031 15,000 15,000 2031 2031 2031 2031 2031 2031 2031	2032 2032 2032 2032 2032 2032 2032 2032	2033	2034 	2035 	2036 2036 	125,000 125,000 125,000 125,000 125,000 107,00
Land Improvements Water Assets Total Registerment Water Capital Total Registerment Water Capital Total Registerment Water Capital Water Mains Water Lester Street Water Mains Water Lester Street Water Versies Water Lester Street Total Rehabilitation Water- Unwrift Asset Type Total Rehabilitation Water- Unwrift Asset Type Total Rehabilitation Water- Unwrift Water Versies Water Weils Water Weils Water Water Water Water Versies Water Street Water Street Water Water Water Unwrift Water Level Unwrift Water Water Water	2017	2018 6,000 6,000 6,000 7,000 8,000 9,00 9,00 9,000 9,000 9,000 9,000 9,000 9,000 9,000 9,000 9,0	2019 2019 2019 2019 2019 2019 2019 2019	2020 2020 2020 2020 3.000 5.000 5.000 5.000 2020 2020 2020 20	125,000 125,000 125,000 125,000 15,000 15,000 14,000 5,000 12,000	2022 2022 10,000 3,000 	2023 12,000 12,000 12,000 12,000 2023 2023 2,000 3,000 5,000 12,000 12,000	2024 2024 10,000 5,000 5,000 2,000 5,000 2,000 5,000 2,000 5,000 2,000 5,000 2,000 5,000 5,000 2,000 5,000	2025 12,000 12,000 12,000 12,000 2025 2025 2,000 5,000 12,000 12,000	2026 2026 10,000 5,000 5,000 5,000 2026 10,000 10,0	2027 2027 2027 2027 2027 2027 2027 2027	2028 2028 2028 10,600 3,000 5,000 5,000	2029 2029 2029 10,000 3,000 2,000 5,000 5,000	2030 2030 2030 3,000 5,000 5,000 2030 10,000	2031 15,000 15,000 15,000 2051 2051 2051 2051 2051 2051 2051 2	2032 2032 2032 2032 2032 2032 2032 2032	2033	2034	2035 	2036 2036 10,000 3,000 2,000 5,000 2036	125,000 125,000 125,000 125,000 125,000 107,00

Watson & Associates Economists Ltd.

Tay	Sunnorted	Accet

x Supported Assets lation Factor																					
	100.0%	102.0%	104.0%	106.1%	108.2%	110.4%	112.6%	114.9%	117.2%	119.5%	121.9%	124.3%	126.8%	129.4%	131.9%	134.6%	137.3%	140.0%	142.8%	145.7%	
Asset Type pital Replacement - Inflated	2017 1,081,200	2018 723,929	2019 901,974	2020 809,972	2021 1,084,490	2022 915,422	2023 896,968	2024 1,197,088	2025 1,011,428	2026 617,863	2027 1,223,154	2028 419.076	2029 1,253,583	2030 806,564	2031 1,629,130	2032 812,244	2033 1,182,770	2034 1,276,332	2035 1,213,177	2036 1,530,673	TOTAL 20,587
oad Surface - Asphalt	-	255,902	555,397	384,852	700,443	814,939	308,752	269,320	-	-	282,726	187,852	273,975	-	66,116	-	344,410	747,491	517,960	942,704	6,652
oad Surface - Grave oad Base	32,000	32,640	33,293	33,959	34,638	35,331	36,037	36,758	37,493	38,243	39,008	39,788	40,584	41,395	42,223	43,068	43,929	44,808	45,704	46,618	777
idge & Culverts cilities	700,000						506,773	-	820,162 5,858	179,264	853,296		824,357	355,742	923,635 6,597					36,420	4,807 404
dewalks	-													-	-			- :	-	-	
gns irriers	4,500	4,590	4,682	4,775	4,871	4,968 895	5,068	5,169	5,272	5,378	5,485 5,802	5,595 9,965	5,707 6,169	5,821	5,938	6,056 6,338	6,178	6,301	6,427	6,556	109
reet Lights	-	-		-		-					-	-	-			-			-	-	
oss Road Culverts orm Mains	4,500	4,590	4,682	4,775	4,871	4,968	5,068	5,169	5,272	5,378	5,485	5,595	5,707	5,821	5,938	6,056	6,178	6,301	6,427	6,556	109
itch Basin orm Manhole	-		-	-			-	-	-	-		-	-	-					-		
orm Pond																					
scharge Point shicles	307,000	423,300	286.110	318.362	332.307	-	33,785	792.593	37.493	328.650	-	-	40 584	355.742	547 584	578.723	716 594	385.066	592,722	400.623	6,47
quipment	8,000	357	416	45,101	1,191	20,094	676	46,924	79,139	29,877	21,332	58,252	1,078	38,808	6,399	37,953	61,775	56,640	42,910	53,902	610
oftware & Hardware and Improvements	25,200	2,550	17,395	18,147	6,170	27,602 6,624	810	23,925 17,230	3,163 17,575	24,499 6,573	10,019	21,262 90,766	23,716 31,706	3,234	24,699	12,920 121,128	3,707	29,725	1,027	29,282 8,012	309 299
lation Factor	100.0%	102.0%	104.0%	106.1%	108.2%	110.4%	112.6%	114.9%	117.2%	119.5%	121.9%	124.3%	126.8%	129.4%	131.9%	134.6%	137.3%	140.0%	142.8%	145.7%	
Asset Type	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	TOTAL
tal Rehab & Maint Inflated ad Surface - Asphalt	38,376	156,570 4,080	374,544	175,099	162,148	-	118,247	-	-	-	-	93,253	-	-	-	-	-	-	-	-	1,118
ad Surface - Grave ad Base	-	-	104,040	84,897	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	181
ige & Culverts			270,504	-	149,159		118,247	-	-	-	-		-	-	-				-	-	53
lewalks	34,000	132,090	-	79,591	12,989	-						93,253	-	-		-			-		35
ns riers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
reet Lights	-	-	-		- :							-	-	-	-	-					
oss Road Culverts	-	-	-	-	-			-	-	-									-		
orm Mains itch Basin				-						-	-							-	-		
orm Manhole		-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
rm Pond charge Point	4,376	-		-	-	-				-	-		-				-				
hicles	-		-	-		-	-	-	-	-	-	-	-	-	-		-			-	
ipment tware & Hardware		20,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
nd Improvements	- 1	-	-	10,612	-	-		-		-	-	-	-				-	-	- 1	-	1
tion Factor	100.0%	102.0%	104.0%	106.1%	108.2%	110.4%	112.6%	114.9%	117.2%	119.5%	121.9%	124.3%	126.8%	129.4%	131.9%	134.6%	137.3%	140.0%	142.8%	145.7%	
Asset Type	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	TOTA
Il Scheduled Capital - Inflated ad Surface - Asphalt	1,276,436 33,800	1,119,852 319,958	1,440,236 590,563	1,160,340 420,721	1,416,970 737,029	1,097,772 852,257	1,192,428 346,817	1,386,805 308,145	1,195,800 39,602	815,842 40,394	1,402,712 323,928	736,882 260,962	1,440,395 316,841	1,007,849 43,724	1,849,879 110,715	1,021,998 45,490	1,384,982 390,810	1,493,510 794,820	1,424,629 566,235	1,756,624 991,944	25,62 7,53
oad Surface - Aspirant	142,000	144,840	147,737	150,692	153,705	156,779	159,915	163,113	166,376	169,703	173,097	176,559	180,090	183,692	187,366	191,113	194,936	198,834	202,811	206,867	3,45
oad Base	1,000	1,020	105,080	85,958	1,082	1,104	1,126	1,149	1,172	1,195	1,219	1,243	1,268	1,294	1,319	1,346	1,373	1,400	1,428	1,457	21
rage & Curverts	710,060 34,000	18,217 132,090	280,970	18,953 79,591	160,048 12,989	19,719	636,349	20,516	831,948 5,858	200,608	853,296	9,698 93,253	824,357	10,090 355,742	923,635 6,597	10,498	-	10,922		11,363 36,420	5,55°
dewalks	-	-	-	-	-	-	-	-	-	598		622	-	647	-	1,009		-	1,071	-	
gns	4,500	4,590	4,682	4,775	4,871	4,968 895	5,068	5,169	5,272	5,378	5,485 5.802	5,595 9,965	5,707 6,169	5,821	5,938	6,056 6,338	6,178	6,301	6,427	6,556	10:
reet Lights		45,900	520	531	541	552	563	574	586	598	609	622	634	647	660	673	686	700	714	728	57
oss Road Culverts	4,500	4,590	4,682	4,775	4,871	4,968	5,068	5,169	5,272	5,378	5,485	5,595	5,707	5,821	5,938	6,056	6,178	6,301	6,427	6,556	109
orm Mains tch Basin	2,000	2,040	2,081	2,122	2,165	2,208	2,252	2,297	2,343	2,390	2,438	2,487	2,536	2,587	26,390 2,639	2,692	2,746	2,800	2,856	2,914	48
orm Manhole	2,000	-	-	-	-	- 2,200	- 2,202	-	-	-	2,400	2,407	2,000		- 2,000		2,740	2,000	- 2,000	2,014	
torm Pond	4,376	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
scharge Point hicles	307,000	423,300	286,110	318,362	332,307	-	33,785	792,593	37,493	328,650		-	40,584	355,742	547,584	578,723	716,594	385,066	592,722	400,623	6,47
uipment	8,000	20,757	416	45,101	1,191	20,094	676	46,924	79,139	29,877	21,332	58,252	1,078	38,808	6,399	37,953	61,775	56,640	42,910	53,902	63
oftware & Hardware	25,200	2,550	17,395	18,147 10,612	6,170	27,602 6,624	810	23,925 17,230	3,163 17,575	24,499 6,573	10,019	21,262 90,766	23,716 31,706	3,234	24,699	12,920 121,128	3,707	29,725	1,027	29,282 8,012	30:
Asset Type	2017 156,860	2018 239,353	2019 163,717	2020 175,269	2021 170,332	2022 182,350	2023 177,213	2024 189,717	2025 184,372	2026 197,979	2027 179,558	2028 224,553	2029 186,812	2030 201,285	2031 220,749	2032 209,754	2033 202,211	2034 217,177	2035 211,452	2036 225,951	TOTAL 3,916
Asset Type ral Scheduled Capital - Inflated oad Surface - Asphalt	156,860 33,800	239,353 59,976	163,717 35,166	175,269 35,869	170,332 36,586	182,350 37,318	177,213 38,064	189,717 38,826	184,372 39,602	197,979 40,394	179,558 41,202	224,553 73,110	186,812 42,867	201,285 43,724	220,749 44,598	209,754 45,490	202,211 46,400	217,177 47,328	211,452 48,275	225,951 49,240	3,916 87
Asset Type tal Scheduled Capital - Inflated toad Surface - Asphalt toad Surface - Gravel	156,860 33,800 110,000	239,353 59,976 112,200	163,717 35,166 114,444	175,269 35,869 116,733	170,332 36,586 119,068	182,350 37,318 121,449	177,213 38,064 123,878	189,717 38,826 126,355	184,372 39,602 128,883	197,979 40,394 131,460	179,558 41,202 134,089	224,553 73,110 136,771	186,812 42,867 139,507	201,285 43,724 142,297	220,749 44,598 145,143	209,754 45,490 148,046	202,211 46,400 151,006	217,177 47,328 154,027	211,452 48,275 157,107	225,951 49,240 160,249	3,916 87 2,67
els of Service Costs - Inflatec Asset Type tal Scheduled Capital - Inflated coad Surface - Asphalt coad Surface - Gravel coad Base pridge & Culverts	156,860 33,800	239,353 59,976	163,717 35,166	175,269 35,869	170,332 36,586	182,350 37,318	177,213 38,064	189,717 38,826	184,372 39,602	197,979 40,394	179,558 41,202	224,553 73,110	186,812 42,867	201,285 43,724	220,749 44,598	209,754 45,490	202,211 46,400	217,177 47,328	211,452 48,275	225,951 49,240	3,916 87 2,67
Asset Type tal Scheduled Capital - Inflated load Surface - Asphalt load Surface - Gravel load Base	33,800 110,000 1,000	239,353 59,976 112,200 1,020	163,717 35,166 114,444 1,040	175,269 35,869 116,733 1,061	170,332 36,586 119,068 1,082	182,350 37,318 121,449 1,104	177,213 38,064 123,878 1,126	189,717 38,826 126,355 1,149	184,372 39,602 128,883 1,172 11,787	197,979 40,394 131,460 1,195 21,344	179,558 41,202 134,089 1,219	224,553 73,110 136,771 1,243 9,698	186,812 42,867 139,507	201,285 43,724 142,297 1,294 10,090	220,749 44,598 145,143	209,754 45,490 148,046 1,346 10,498	202,211 46,400 151,006 1,373	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,428	225,951 49,240 160,249 1,457	3,916 87; 2,67; 2,67; 20;
Asset Type tal Scheduled Capital - Inflated load Surface - Asphalt load Surface - Gravel load Base	33,800 110,000 1,000	239,353 59,976 112,200 1,020	163,717 35,166 114,444 1,040	175,269 35,869 116,733 1,061	170,332 36,586 119,068 1,082	182,350 37,318 121,449 1,104	177,213 38,064 123,878 1,126	189,717 38,826 126,355 1,149	184,372 39,602 128,883 1,172	197,979 40,394 131,460 1,195	179,558 41,202 134,089	224,553 73,110 136,771 1,243	186,812 42,867 139,507	201,285 43,724 142,297 1,294	220,749 44,598 145,143	209,754 45,490 148,046 1,346	202,211 46,400 151,006	217,177 47,328 154,027 1,400	211,452 48,275 157,107	225,951 49,240 160,249 1,457	3,916 87: 2,67:
Asset Type Ial Scheduled Capital - Inflated Oad Surface - Asphalt Oad Sase Trige & Culverts acultics didwalks igns	33,800 110,000 1,000	239,353 59,976 112,200 1,020 18,217	163,717 35,166 114,444 1,040 10,466	175,269 35,869 116,733 1,061 18,953	170,332 36,586 119,068 1,082 10,889	182,350 37,318 121,449 1,104 19,719	177,213 38,064 123,878 1,126 11,329	189,717 38,826 126,355 1,149 20,516 - -	184,372 39,602 128,883 1,172 11,787	197,979 40,394 131,460 1,195 21,344 - 598 -	179,558 41,202 134,089 1,219 - - -	224,553 73,110 136,771 1,243 9,698 - 622 -	186,812 42,867 139,507 1,268	201,285 43,724 142,297 1,294 10,090 - 647 -	220,749 44,598 145,143 1,319	209,754 45,490 148,046 1,346 10,498 - 1,009	202,211 46,400 151,006 1,373	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,428 - - 1,071 -	225,951 49,240 160,249 1,457 11,363	3,916 87: 2,67: 20:
Asset Type al Scheduled Capital - Inflated bad Surface - Asphalt bad Surface - Gravel bad Sara - Grave	33,800 110,000 1,000	239,353 59,976 112,200 1,020	163,717 35,166 114,444 1,040	175,269 35,869 116,733 1,061	170,332 36,586 119,068 1,082	182,350 37,318 121,449 1,104	177,213 38,064 123,878 1,126	189,717 38,826 126,355 1,149	184,372 39,602 128,883 1,172 11,787	197,979 40,394 131,460 1,195 21,344	179,558 41,202 134,089 1,219	224,553 73,110 136,771 1,243 9,698	186,812 42,867 139,507	201,285 43,724 142,297 1,294 10,090	220,749 44,598 145,143	209,754 45,490 148,046 1,346 10,498	202,211 46,400 151,006 1,373	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,428	225,951 49,240 160,249 1,457	3,916 87; 2,67; 2,67; 20;
Asset Type al Scheduled Capital - Inflated oad Surface - Asphalt oad Surface - Gravel oad Base ridge & Culverts actilities dewalks igns arriers	156,860 33,800 110,000 1,000 10,060	239,353 59,976 112,200 1,020 18,217 - - - 45,900	163,717 35,166 114,444 1,040 10,466 - - - - - - - - - -	175,269 35,869 116,733 1,061 18,953 - - - - 531	170,332 36,586 119,068 1,082 10,889	182,350 37,318 121,499 1,104 19,719 	177,213 38,064 123,878 1,126 11,329 - - - - 563	189,717 38,826 126,355 1,149 20,516 - - - - - - - -	184,372 39,602 128,883 1,172 11,787 	197,979 40,394 131,460 1,195 21,344 - 598 - 598	179,558 41,202 134,089 1,219 - - - - - - - - - - - - - - - - - - -	224,553 73,110 136,771 1,243 9,698 - 622 - - 622	186,812 42,867 139,507 1,268 - - - - - - - - - - - - - - - - - - -	201,285 43,724 142,297 1,294 10,090 647	220,749 44,598 145,143 1,319	209,754 45,490 148,046 1,346 10,498 - 1,009 - 673	202,211 46,400 151,006 1,373 - - - - - - - - - - - - - -	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,428 - - 1,071 - 714	225,951 49,240 160,249 1,457 11,363	3,916 87 2,67 2 20
Asset Type al Scheduled Capital - Inflated oad Surface - Asphalt oad Surface - Gravel oad Base ridge & Culverts actilities dewalks igns arriers	33,800 110,000 1,000	239,353 59,976 112,200 1,020 18,217	163,717 35,166 114,444 1,040 10,466	175,269 35,869 116,733 1,061 18,953	170,332 36,586 119,068 1,082 10,889	182,350 37,318 121,499 1,104 19,719 	177,213 38,064 123,878 1,126 11,329	189,717 38,826 126,355 1,149 20,516 - -	184,372 39,602 128,883 1,172 11,787	197,979 40,394 131,460 1,195 21,344 - 598 -	179,558 41,202 134,089 1,219 - - -	224,553 73,110 136,771 1,243 9,698 - 622 -	186,812 42,867 139,507 1,268	201,285 43,724 142,297 1,294 10,090 - 647 -	220,749 44,598 145,143 1,319 	209,754 45,490 148,046 1,346 10,498 - 1,009	202,211 46,400 151,006 1,373	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,428 - - 1,071 -	225,951 49,240 160,249 1,457 11,363	3,916 87 2,67 2 20
Asset Type al Scheduled Capital - Inflated bad Surface - Asphalt bad Surface - Gravel bad Sara - Grave	156,860 33,800 110,000 1,000 10,060	239,353 59,976 112,200 1,020 18,217 - - - 45,900	163,717 35,166 114,444 1,040 10,466 - - - - - - - - - -	175,269 35,869 116,733 1,061 18,953 - - - - 531	170,332 36,586 119,068 1,082 10,889	182,350 37,318 121,499 1,104 19,719 	177,213 38,064 123,878 1,126 11,329 - - - - 563	189,717 38,826 126,355 1,149 20,516 - - - - - - - -	184,372 39,602 128,883 1,172 11,787 	197,979 40,394 131,460 1,195 21,344 - 598 - 598	179,558 41,202 134,089 1,219 - - - - - - - - - - - - - - - - - - -	224,553 73,110 136,771 1,243 9,698 - 622 - - 622	186,812 42,867 139,507 1,268 - - - - - - - - - - - - - - - - - - -	201,285 43,724 142,297 1,294 10,090 647	220,749 44,598 145,143 1,319 - - - - - - - - - - - - -	209,754 45,490 148,046 1,346 10,498 - 1,009 - 673	202,211 46,400 151,006 1,373 - - - - - - - - - - - - - -	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,428 - - 1,071 - 714	225,951 49,240 160,249 1,457 11,363	3,916 87: 2,67: 20:
Asset Type al Scheduled Capital - Inflated bad Surface - Asphalt bad Surface - Gravel bad Sara - Grave	156,860 33,800 110,000 1,000 10,060	239,353 59,976 112,200 1,020 18,217 - - - 45,900	163,717 35,166 114,444 1,040 10,466 - - - - - - - - - -	175,269 35,869 116,733 1,061 18,953 - - - - 531	170,332 36,586 119,068 1,082 10,889	182,350 37,318 121,499 1,104 19,719 	177,213 38,064 123,878 1,126 11,329 - - - - 563	189,717 38,826 126,355 1,149 20,516 - - - - - - - -	184,372 39,602 128,883 1,172 11,787 	197,979 40,394 131,460 1,195 21,344 - 598 - 598	179,558 41,202 134,089 1,219 - - - - - - - - - - - - - - - - - - -	224,553 73,110 136,771 1,243 9,698 - 622 - - 622	186,812 42,867 139,507 1,268 - - - - - - - - - - - - - - - - - - -	201,285 43,724 142,297 1,294 10,090 647	220,749 44,598 145,143 1,319 - - - - - - - - - - - - -	209,754 45,490 148,046 1,346 10,498 - 1,009 - 673	202,211 46,400 151,006 1,373 - - - - - - - - - - - - - -	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,428 - - 1,071 - 714	225,951 49,240 160,249 1,457 11,363	3,916 87 2,67 2 20
Asset Type Ial Scheduled Capital - Inflated Oad Surface - Asphalt Oad Sase Trige & Culverts acultics didwalks igns	156,860 33,800 110,000 1,000 10,060	239,353 59,976 112,200 1,020 18,217 - - - 45,900	163,717 35,166 114,444 1,040 10,466 - - - - - - - - - -	175,269 35,869 116,733 1,061 18,953 - - - - 531	170,332 36,586 119,068 1,082 10,889	182,350 37,318 121,499 1,104 19,719 	177,213 38,064 123,878 1,126 11,329 - - - - 563	189,717 38,826 126,355 1,149 20,516 - - - - - - - -	184,372 39,602 128,883 1,172 11,787 	197,979 40,394 131,460 1,195 21,344 - 598 - 598	179,558 41,202 134,089 1,219 - - - - - - - - - - - - - - - - - - -	224,553 73,110 136,771 1,243 9,698 - 622 - - 622	186,812 42,867 139,507 1,268 - - - - - - - - - - - - - - - - - - -	201,285 43,724 142,297 1,294 10,090 647	220,749 44,598 145,143 1,319 - - - - - - - - - - - - -	209,754 45,490 148,046 1,346 10,498 - 1,009 - 673	202,211 46,400 151,006 1,373 - - - - - - - - - - - - - -	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,428 - - 1,071 - 714	225,951 49,240 160,249 1,457 11,363	3,916 87 2,67 2 20
Asset Type al Scheduled Capital - Inflated bad Surface - Asphalt bad Surface - Gravel bad Sara - Grave	156,860 33,800 110,000 1,000 10,060	239,353 59,976 112,200 1,020 18,217 - - - 45,900	163,717 35,166 114,444 1,040 10,466 - - - - - - - - - -	175,269 35,869 116,733 1,061 18,953 - - - - 531	170,332 36,586 119,068 1,082 10,889	182,350 37,318 121,499 1,104 19,719 	177,213 38,064 123,878 1,126 11,329 - - - - 563	189,717 38,826 126,355 1,149 20,516 - - - - - - - -	184,372 39,602 128,883 1,172 11,787 	197,979 40,394 131,460 1,195 21,344 - 598 - 598	179,558 41,202 134,089 1,219 - - - - - - - - - - - - - - - - - - -	224,553 73,110 136,771 1,243 9,698 - 622 - - 622	186,812 42,867 139,507 1,268 - - - - - - - - - - - - - - - - - - -	201,285 43,724 142,297 1,294 10,090 647	220,749 44,598 145,143 1,319 - - - - - - - - - - - - -	209,754 45,490 148,046 1,346 10,498 - 1,009 - 673	202,211 46,400 151,006 1,373 - - - - - - - - - - - - - -	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,428 - - 1,071 - 714	225,951 49,240 160,249 1,457 11,363	3,916 87 2,67 2 20
Asset Type al Scheduled Capital - Inflated bad Surface - Asphalt bad Surface - Gravel bad Sase idge & Culverts cultilies dewalks gns arriers	156,860 33,800 110,000 1,000 10,060	239,353 59,976 112,200 1,020 18,217 - - - 45,900	163,717 35,166 114,444 1,040 10,466 - - - - 520 - - 2,081	175,269 35,869 116,733 1,061 18,953 - - - - 531	170,332 36,586 119,068 1,082 10,889	182,350 37,318 121,499 1,104 19,719 	177,213 38,064 123,878 1,126 11,329 - - - - 563	189,717 38,826 126,355 1,149 20,516 - - - - - - - -	184,372 39,602 128,883 1,172 11,787 	197,979 40,394 131,460 1,195 21,344 - 598 - 598	179,558 41,202 134,089 1,219 	224,553 73,110 136,771 1,243 9,696 622 - - - 622 - - 2,487 - -	186,812 42,867 139,507 1,268 - - - - - - - - - - - - - - - - - - -	201.285 43,724 142,297 1.294 10,090 647 - - 647 - - 2,587 - -	220,749 44,598 145,143 1,319 - - - - - - - - - - - - -	209,754 45,490 148,046 1,346 10,498 - 1,009 - 673	202,211 46,400 151,006 1,373 - - - - - - - - - - - - - -	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,428 - - 1,071 - 714	225,951 49,240 160,249 1,457 11,363	3,916 87 2,67 2 20
Asset Type al Scheduled Capital - Inflated oad Surface - Asphalt oad Surface - Gravel oad Base ridge & Culverts actilities dewalks igns arriers	156,860 33,800 110,000 1,000 10,060	239,353 59,976 112,200 1,020 18,217 - - - 45,900	163,717 35,166 114,444 1,040 10,466 - - - - 520 - - 2,081	175,269 35,869 116,733 1,061 18,953 - - - - 531	170,332 36,586 119,068 1,082 10,889	182,350 37,318 121,499 1,104 19,719 	177,213 38,064 123,878 1,126 11,329 - - - - 563	189,717 38,826 126,355 1,149 20,516 - - - - - - - -	184,372 39,602 128,883 1,172 11,787 	197,979 40,394 131,460 1,195 21,344 - 598 - 598	179,558 41,202 134,089 1,219 	224,553 73,110 136,771 1,243 9,696 622 - - - 622 - - 2,487 - -	186,812 42,867 139,507 1,268 - - - - - - - - - - - - - - - - - - -	201.285 43,724 142,297 1.294 10,090 647 - - 647 - - 2,587 - -	220,749 44,598 145,143 1,319 - - - - - - - - - - - - -	209,754 45,490 148,046 1,346 10,498 - 1,009 - 673	202,211 46,400 151,006 1,373 - - - - - - - - - - - - - -	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,428 - - 1,071 - 714	225,951 49,240 160,249 1,457 11,363	3,916 87 2,67 2 20
Asset Type al Scheduled Capital - Inflated coal Surface - Asphalt coal Surface - Cravel coal Surface coal	156,880 33,800 110,000 1	239,353 59,976 112,200 1,020 18,217 - - - 45,900	163,717 35,166 114,444 1,040 10,466 - - - - 520 - - 2,081	175,269 35,869 116,733 1,061 18,953 - - - - 531	170,332 36,586 119,068 1,082 10,889	182,350 37,318 121,499 1,104 19,719 	177,213 38,064 123,878 1,126 11,329 - - - - 563	189,717 38,826 126,355 1,149 20,516 - - - - - - - -	184,372 39,602 128,883 1,172 11,787 	197,979 40,394 131,460 1,195 21,344 - 598 - 598	179,558 41,202 134,089 1,219 	224,553 73,110 136,771 1,243 9,696 622 - - - 622 - - 2,487 - -	186,812 42,867 139,507 1,268 - - - - - - - - - - - - - - - - - - -	201.285 43,724 142,297 1.294 10,090 647 - - 647 - - 2,587 - -	220,749 44,598 145,143 1,319 - - - - - - - - - - - - -	209,754 45,490 148,046 1,346 10,498 - 1,009 - 673	202,211 46,400 151,006 1,373 - - - - - - - - - - - - - -	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,428 - - 1,071 - 714	225,951 49,240 160,249 1,457 11,363	3,910 87 2,67 2 20 5
Asset Type all Scheduled Capital - Inflated coad Surface - Saphalt coad Surface - Crievel coad Surface coad	156,880 33,800 110,000 1	239,353 59,976 112,200 1,020 18,217 - - - 45,900	163,717 35,166 114,444 1,040 10,466 - - - - 520 - - 2,081	175,269 35,869 116,733 1,061 18,953 - - - - 531	170,332 36,556 119,068 11,068 1,082 10,889	182,350 37,318 121,449 1,104 1,104 19,719 	177,213 38,064 123,878 1,126 11,329 - - - - 563	189,717 38,826 126,355 1,149 20,516 - - - - - - - -	184,372 39,602 128,883 1,172 11,787 	197,979 40,394 131,460 1,195 21,344 - 598 - 598	179,558 41,202 134,089 1,219 	224,553 73,110 136,771 1,243 9,696 622 - - - 622 - - 2,487 - -	186,812 42,867 139,507 1,268 - - - - - - - - - - - - - - - - - - -	201.285 43,724 142,297 1.294 10,090 647 - - 647 - - 2,587 - -	220,749 44,598 145,143 1,319 - - - - - - - - - - - - -	209,754 45,490 148,046 1,346 10,498 - 1,009 - 673	202,211 46,400 151,006 1,373 - - - - - - - - - - - - - -	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,428 - - 1,071 - 714	225,951 49,240 160,249 1,457 11,363	3,911 87 2,67 2 2 20 5 5
Asset Type al Scheduled Capital - Inflated coad Surface - Sayahit coad Surface - Grevel	156,880 33,800 110,000 10,000 	239,353 59,976 112,200 1,020 18,217 	163,777 35,166 114,444 1,040 10,466 520 2	175.269 35.869 116.733 1.061 118.953 	170,332 36,596 119,068 119,068 1,082 10,889 	182,350 37,318 121,449 1,104 1,104 19,719 	17,213 38,064 123,878 11,129 11,129 11,329 	189,717 38,826 126,355 1,149 20,516 	184,372 39,602 128,883 1,172 11,737 	197/979 40,394 131,480 1,1954 598 	179.558 4 1202 134.089 1.219 	224,553 73,110 136,771 1,123 9,668 622 - - - 2,487 - - - -	186,812 42,887 139,507 1,288 	201,285 43,724 142,297 1,294 10,090 647 - - - - - - - - - - - - - - - - - - -	20,749 44,598 145,143 1,319 	209,754 45,400 148,046 1,2346 10,498 1,009 	20,211 48,400 151,006 1,373 	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,428 	225,951 49,240 160,249 11,457 11,457 11,363 	3,911 87 2,67 2 20 5 2 4
Assert Type al Scheduled Capital - Inflated cast Surface - Asphalt cast Surface - Grevel cost Surface - Grevel cost Surface control of the Surface control of the Surface com Mains test Lights com Mains test Basin test Basin test Basin test Basin test Capital - Uninflate are Facilities & Components test Mains test Mains test Mains test Mains test Mains test Mains test Surface test Mains	156,880 33,800 110,000 10,000 	239,353 59,976 112,200 1,020 18,217 	163,777 35,166 114,444 1,040 10,466 520 2	175.269 35.869 116.733 1.061 118.953 	170,332 36,556 119,068 11,068 1,082 10,889	182,350 37,318 121,449 1,104 1,104 19,719 	17,213 38,064 123,878 11,129 11,129 11,329 	189,717 38,826 126,355 1,149 20,516 	184,372 39,602 128,883 1,172 11,737 	197/979 40,394 131,480 1,1954 598 	179.558 4 1202 134.089 1.219 	224,553 73,110 136,771 1,123 9,668 622 - - - 2,487 - - - -	186,812 42,887 139,507 1,288 	201,285 43,724 142,297 1,294 10,090 647 - - - - - - - - - - - - - - - - - - -	20,749 44,598 145,143 1,319 	209,754 45,400 148,046 1,2346 10,498 1,009 	20,211 48,400 151,006 1,373 	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,428 	225,951 49,240 160,249 11,457 11,457 11,363 	3,911 87 2,67 2 20 20 5 5
Assert Type al Scheduled Capital - Inflated and Surface - Apphalt and Surface - Gravel and Su	156,880 33,800 110,000 10,000 	239,353 59,976 112,200 1,020 18,217 	163,777 35,166 114,444 1,040 10,466 520 2	175.269 35.869 116.733 1.061 118.953 	170,332 36,596 119,068 119,068 1,082 10,889 	182,350 37,318 121,449 1,104 1,104 19,719 	17,213 38,064 123,878 11,129 11,129 11,329 	189,717 38,826 126,355 1,149 20,516 	184,372 39,602 128,883 1,172 11,737 	197/979 40,394 131,480 1,1954 598 	179.558 4 1202 134.089 1.219 	224,553 73,110 136,771 1,123 9,668 622 - - - 2,487 - - - -	186,812 42,887 139,507 1,288 	201,285 43,724 142,297 1,294 10,090 647 - - - - - - - - - - - - - - - - - - -	20,749 44,598 145,143 1,319 	209,754 45,400 148,046 1,2346 10,498 1,009 	20,211 48,400 151,006 1,373 	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,428 	225,951 49,240 160,249 11,457 11,457 11,363 	3,911 8,77 2,67 20 20 5 2 4
Assert Type al Scheduled Capital - Inflated coad Surface - Asphalt coad Surface - Grevel coad Surface coad	156,880 33,800 110,000 10,000 	239,353 59,976 112,200 1,020 18,217 	163,777 35,166 114,444 1,040 10,466 520 2	175.269 35.869 116.733 1.061 118.953 	170,332 36,596 119,068 119,068 1,082 10,889 	182,350 37,318 121,449 1,104 1,104 19,719 	17,213 38,064 123,878 11,129 11,129 11,329 	189,717 38,826 126,355 1,149 20,516 	184,372 39,602 128,883 1,172 11,737 	197/979 40,394 131,480 1,1954 598 	179.558 4 1202 134.089 1.219 	224,553 73,110 136,771 1,123 9,668 622 - - - 2,487 - - - -	186,812 42,887 139,507 1,288 	201,285 43,724 142,297 1,294 10,090 647 - - - - - - - - - - - - - - - - - - -	20,749 44,598 145,143 1,319 	209,754 45,400 148,046 1,2346 10,498 1,009 	20,211 48,400 151,006 1,373 	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,428 	225,951 49,240 160,249 11,457 11,457 11,363 	3,911 8,77 2,67 20 20 5 2 4
Asset Type al Scheduled Capital - Intlated coal Surface - Sephalt co	156,880 33,800 110,000 10,000 	293,553 59,976 112,200 1,020 18,217 	163,777 35,166 114,444 1,040 10,466 520 2	175-269 35,869 116,733 1,061 16,953 	170,332 36,596 119,068 119,068 1,082 10,889 	182,350 37,318 121,449 1,104 1,104 19,719 	17,213 38,064 123,878 11,129 11,129 11,329 	189,717 38,826 126,355 1,149 20,516 	184,372 39,602 128,883 1,172 11,787 	197,979 40,394 131,460 1,196 21,344 598 2026	179,558 41,202 134,089 1,219 	224,553 73,110 136,771 1,123 9,668 622 - - - 2,487 - - - -	186,812 42,887 139,507 1,288 	201,285 43,724 142,297 1,294 10,090 647 	20,749 44,598 145,143 1,319 	209,754 45,400 148,046 1,2346 10,498 1,009 	20,211 48,400 151,006 1,373 	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,429 	225,551 49,240 160,249 11,365 1,457 11,365 	3,911 8,77 2,67 20 20 5 2 4
Asset Type al Scheduled Capital - Intlated coal Surface - Sephalt co	156,880 33,800 110,000 10,000 	239,353 59,976 112,200 1,020 18,217 	163,777 35,166 114,444 1,040 10,466 520 2	175.269 35.869 116.733 1.061 118.953 	170,332 36,596 119,068 119,068 1,082 10,889 	182,350 37,318 121,449 1,104 1,104 19,719 	17,213 38,064 123,878 11,129 11,129 11,329 	189,717 38,826 126,355 1,149 20,516 	184,372 39,602 128,883 1,172 11,737 	197/979 40,394 131,480 1,1954 598 	179.558 4 1202 134.089 1.219 	224,553 73,110 136,771 1,123 9,668 622 - - - 2,487 - - - -	186,812 42,887 139,507 1,288 	201,285 43,724 142,297 1,294 10,090 647 - - - - - - - - - - - - - - - - - - -	20,749 44,598 145,143 1,319 	209,754 45,400 148,046 1,2346 10,498 1,009 	20,211 48,400 151,006 1,373 	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,428 	225,951 49,240 160,249 11,457 11,457 11,363 	3,911 8,77 2,67 20 20 5 2 4
Asset Type all Scheduled Capital - Inflated sold Surface - Asphalt sold Surface - Cravel of Surface - Crav	156,880 33,800 110,000 10,000 	293,553 59,976 112,200 1,020 18,217 	163,777 35,166 114,444 1,040 10,466 520 2	175-269 35,869 116,733 1,061 16,953 	170,332 36,596 119,068 119,068 1,082 10,889 	182,350 37,318 121,449 1,104 1,104 19,719 	17,213 38,064 123,878 11,129 11,129 11,329 	189,717 38,826 126,355 1,149 20,516 	184,372 39,602 128,883 1,172 11,787 	197,979 40,394 131,460 1,196 21,344 598 2026	179,558 41,202 134,089 1,219 	224,553 73,110 136,771 1,123 9,668 622 - - - 2,487 - - - -	186,812 42,887 139,507 1,288 	201,285 43,724 142,297 1,294 10,090 647 	20,749 44,598 145,143 1,319 	209,754 45,400 148,046 1,2346 10,498 1,009 	20,211 48,400 151,006 1,373 	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,429 	225,551 49,240 160,249 11,365 1,457 11,365 	3,91 87 2,67 2 20 5 5 4 4
Asset Type al Scheduled Capital - Inflated coad Surface - Sephalt co	156,820 33,800 110,000 1,000 1,000 1,000 2,000 	293,553 59,976 112,200 1,020 16,217 45,900 2,040 	163,717 35,166 114,444 1,040 10,466 520 	175-269 35,869 116,733 1,061 16,953 	170,332 36,596 119,068 1,068 1,068 1,089 1,089 2,165 2	192,350 37,318 121,449 1,104 19,719 	17/243 38.064 123.878 1.1.26 11.329 	189,717 38,826 126,355 1,149 20,516 	184,372 39,602 128,883 1,172 11,787 	197,979 40,394 131,460 1,196 21,344 598	179,558 41,202 134,089 1,219 	224,553 73,110 136,771 1,123 9,668 622 - - - 2,487 - - - -	186,812 42,887 139,507 1,288 	201,285 43,724 142,297 1,294 10,090 647 	20)740 20)740 20)74 20 20 20 20 20 20 20 2	209,754 45,400 148,046 1,2346 10,498 1,009 	20,211 48,400 151,006 1,373 	217,177 47,328 154,027 1,400 10,922	211,452 48,275 157,107 1,429 1,420 1	225,551 49,240 160,249 11,365 1,457 11,365 	3,919 87 87 87 87 87 87 87 87 87 87 87 87 87 8
Asset Type al Scheduled Capital - Inflated coal Surface - Sayabil coal Surface - Surface dispansion coal Base coal	156,880 33,800 110,000 1,000 1,000 1,000 2,000 	293,553 59,976 112,200 1,020 18,217 45,900 	163,717 35,166 114,444 1,040 10,466 520 520 	175,269 35,869 116,733 1,001 16,953 	2021 195,304 19,068 119,068 1,089 1,	192,350 37,318 121,449 1,104 19,719 	17/243 38.064 128.878 1.1,26 1.1,279 1.3,20 1.3,20 1.3,20 1.3,20 1.3,20 1.3,20 1.3,20 1.3,20 1.3,20 1.3,20	189.747 38.826 126.355 11.149 20.516 	184,372 39,602 128,883 1,172 11,787 	197,979 40,334 131,460 1,195 21,344 598	179.558 41,202 134,089 1,219 	224,553 73,110 136,771 1,223 9,668 622 	186,812 42,867 139,507 1,268 	201,285 43,724 142,297 1,294 10,090 647 	2031 2031 2031 19,792	209754 45,400 148,046 1,346 10,498 1,009 1,009 2,692 2,692 2,692 2,792 2	202.211 46,400 151,006 1,373 686 2.46 	217,177 47,328 154,027 1,400 10,922 2,500	211,452 48,275 157,107 1,429 	225,951 49,240 49,240 160,249 1,467 11,363 1,467	3,919
Asset Type Il Scheduled Capital - Inflated sed Surfacer- Asphalt sed Surfacer- Surfacer- Surfacer- sed Surfacer- Surfacer- Surfacer- sed Surfacer- Surfacer- Surfacer- Surfacer- sed Surfacer- Surface	156,820 33,800 110,000 1,000 1,000 1,000 2,000 	293,553 59,976 112,200 1,020 16,217 45,900 2,040 	163,717 35,166 114,444 1,040 10,466 520 520 	175,269 35,869 116,733 1,001 16,953 	170,332 36,596 119,068 1,068 1,068 1,089 1,089 2,165 2	192,350 37,318 121,449 1,104 19,719 	17/243 38.064 123.878 1.1.26 11.329 563 	189.747 38.826 126.355 11.149 20.516 	184,372 39,602 128,883 1,172 11,787 	197,979 40,334 131,460 1,195 21,344 598	179.558 41,202 134,089 1,219 	224,553 73,110 136,771 1,223 9,668 622 	186,812 42,867 139,507 1,268 	201,285 43,724 142,297 1,294 10,090 647 	20)740 20)740 20)74 20 20 20 20 20 20 20 2	209754 45,400 148,046 1,346 10,498 1,009 1,009 2,692 2,692 2,692 2,792 2	202.211 46,400 151,006 1,373 686 2.46 	217,177 47,328 154,027 1,400 10,922 2,500	211,452 48,275 157,107 1,429 1,420 1	225,951 49,240 49,240 160,249 1,467 11,363 1,467	3.919 87 26.63 2.63 2.63 2.63 2.63 2.63 2.63 2.63
Asset Type Il Scheduled Capital - Inflated and Surface - Asphalt	156,880 33,800 110,000 1,000 1,000 1,000 2,000 	293,553 59,976 112,200 1,020 18,217 45,900 	163,717 35,166 114,444 1,040 10,466 520 520 	175,269 35,869 116,733 1,001 16,953 	2021 195,304 19,068 119,068 1,089 1,	192,350 37,318 121,449 1,104 19,719 	17/243 38.064 123.878 1.1.26 11.329 563 	189.747 38.826 126.355 11.149 20.516 	184,372 39,602 128,883 1,172 11,787 	197,979 40,334 131,460 1,195 21,344 598	179.558 41,202 134,089 1,219 	224,553 73,110 136,771 1,223 9,668 622 	186,812 42,867 139,507 1,268 	201,285 43,724 142,297 1,294 10,090 647 	2031 2031 2031 19,792	209754 45,400 148,046 1,346 10,498 1,009 1,009 2,692 2,692 2,692 2,792 2	202.211 46,400 151,006 1,373 686 2.46 	217,177 47,328 154,027 1,400 10,922 2,500	211,452 48,275 157,107 1,429 	225,951 49,240 49,240 160,249 1,467 11,363 1,467	3.919 87 26.63 2.63 2.63 2.63 2.63 2.63 2.63 2.63
Asset Type Il Scheduled Capital - Inflated and Surface - Asphalt and Surface - Gravel and Su	156,880 33,800 110,000 1,000 1,000 1,000 2,000 	293,553 59,976 112,200 1,020 18,217 45,900 	163,717 35,166 114,444 1,040 10,466 520 520 	175,269 35,869 116,733 1,001 16,953 	2021 195,304 19,068 119,068 1,089 1,	192,350 37,318 121,449 1,104 19,719 	17/243 38.064 123.878 1.1.26 11.329 563 	189.747 38.826 126.355 11.149 20.516 	184,372 39,602 128,883 1,172 11,787 	197,979 40,334 131,460 1,195 21,344 598	179.558 41,202 134,089 1,219 	224,553 73,110 136,771 1,223 9,668 622 	186,812 42,867 139,507 1,268 	201,285 43,724 142,297 1,294 10,090 647 	2031 2031 2031 19,792	209754 45,400 148,046 1,346 10,498 1,009 1,009 2,692 2,692 2,692 2,792 2	202.211 46,400 151,006 1,373 686 2.46 	217,177 47,328 154,027 1,400 10,922 2,500 2,500	211,452 48,275 157,107 1,429 	225,951 49,240 49,240 160,249 1,467 11,363 1,467	3,919
Asset Type Il Scheduled Capital - Inflated and Surface - Asphalt	156,880 33,800 110,000 1,000 1,000 1,000 2,000 	293,553 59,976 112,200 1,020 18,217 45,900 	163,717 35,166 114,444 1,040 10,466 520 520 	175,269 35,869 116,733 1,001 16,953 	2021 2021 2021 2021 2021 2021 2021 2021	192,350 37,318 121,449 1,104 19,719 	17/243 38.064 123.878 1.126 11.329 563 	189.747 38.826 126.355 11.149 20.516 	184,372 39,602 128,883 1,172 11,787	197,979 40,334 131,460 1,195 21,344 598	179.558 41,202 134,089 1,219 	224,553 73,110 136,771 1,223 9,668 622 	186,812 42,867 139,507 1,268 	201,285 43,724 142,297 1,294 10,090 647 	2031 2031 2031 19,792	209754 45,400 148,046 1,346 10,498 1,009 1,009 2,692 2,692 2,692 2,792 2	202.211 46,400 151,006 1,373	217,177 47,328 154,027 1,400 10,922 2,500	211,452 48,275 157,107 1,429 	225,951 49,240 49,240 160,249 1,467 11,363 1,467	3,919167 87 87 87 87 87 87 87 87 87 87 87 87 87 8
Asset Type all Scheduled Capital - Inflated and Surface - Asphalt and Surface - Suphalt	156,880 33,800 110,000 1,000 1,000 1,000 2,000 	293,553 59,976 112,200 1,020 18,217 46,900 	163,717 35,166 114,444 1,040 10,466 520 520 2,081 	175,269 35,869 116,733 1,001 16,953 	2021 195,304 19,068 119,068 1,089 1,	192,350 37,318 121,449 1,104 19,719 	17/243 38.064 123.878 1.1.26 11.329 563 	189.747 38.826 126.355 11.149 20.516 	184,372 39,602 128,883 1,172 11,787 	197,979 40,394 131,460 1,195 21,344	179.558 41,202 134,089 1,219	224,553 73,110 136,771 1,223 9,668 622 	186,812 42,867 139,507 1,268 	201,285 43,724 142,297 1,294 10,090 647 	200740 200	209754 45,400 148,046 1,346 10,498 1,009 1,009 2,692 2,692 2,692 2,792 2	202211 46,400 151,006 1,373	217,177 47,328 154,027 1,400 10,922 2,500 2,500	211,452 48,275 157,107 1,429 	225,951 49,240 49,240 160,249 1,467 11,363 1,467	3,919167 87 87 87 87 87 87 87 87 87 87 87 87 87 8
Asset Type Il Scheduled Capital - Inflated sed Surfacer- Asphalt sed Surfacer- Surfacer sed Surfacer- Surfacer- sed Su	156,880 33,800 110,000 1,000 1,000 1,000 2,000 	293,553 59,976 112,200 1,020 18,217 46,900 	163,717 35,166 114,444 1,040 10,466 520 520 2,081 	175,269 35,869 116,733 1,001 16,953 	2021 2021 2021 2021 2021 2021 2021 2021	192,350 37,318 121,449 1,104 19,719 	17/243 38.064 123.878 1.126 11.329 563 	189.747 38.826 126.355 11.149 20.516 	184,372 39,602 128,883 1,172 11,787	197,979 40,394 131,460 1,195 21,344	179.558 41,202 134,089 1,219	224,553 73,110 136,771 1,223 9,668 622 	186,812 42,867 139,507 1,268 	201,285 43,724 142,297 1,294 10,090 647 	200740 200	209754 45,400 148,046 1,346 10,498 1,009 1,009 2,692 2,692 2,692 2,792 2	202211 46,400 151,006 1,373	217,177 47,328 154,027 1,400 10,922 2,500 2,500	211,452 48,275 157,107 1,429 	225,951 49,240 49,240 160,249 1,467 11,363 1,467	3,919167 87 87 87 87 87 87 87 87 87 87 87 87 87 8
Asset Type Il Scheduled Capital - Inflated and Surface - Asphalt	156,880 110,000 110,	2018 2018 2018 2018 2018	163,717 35,166 114,444 1,040 10,466 	175-269 35,869 116,733 1,061 16,953 	2021 2021 2021 2021 2021 2021 2021	192,350 37,318 121,449 1,104 19,719 	17/2/13 38.064 128.878 1.1.26 11.329 	189.717 38.826 126.355 11.149 20.516 	184,372 38,602 128,883 1,172 11,787	197,979 140,394 131,460 1,195 21,344	179,558 41,202 134,089 1,219 1	24,553 73,110 136,771 1,243 9,098	186,812 42,867 139,507 1,268 1,26 634 	201,285 43,724 142,297 1,294 10,090 647 	2031 2031 2031 2031 2031 2031	209754 45,490 148,046 1.346 10,498 10,498 2032 2032 2032 2032 2032 2032	202211 46,400 151,006 1.373 1.37 1.37 1.37 1.37 1.37 1.37 1.3	217,177 47,328 154,027 1,400 10,922 2,500 2,500	211,452 48,275 157,107 1,420 1	2236 51 1 2036 2036 2036 2036 2036 2036 2036 2036	3,919 87 2,67 2,07 2,00 2,00 2,00 2,00 2,00 3,00 4,00 4,00 1,00 1,00 1,00 1,00 1,00 1
Asset Type al Scheduled Capital - Inflated and Surface - Apphalt	156,880 33,800 110,000 110,000 1,000	2018 2018 2018 2018 2018 2018 2018	163,7472 35,166 114,444 1,040 10,466	175,269 35,869 116,733 1,001 18,953 	2021 15,536 19,068 19,068 1,089 10,889 541 	192,350 37,318 121,449 1,104 19,719 	17/243 38.064 128.878 1.1,26 11,329 1.329 1.329 2023 2024 2024 2025	189.717 38.826 126.355 11.149 20.516 	184,372 39,602 128,883 1,172 11,787	197,979 40,334 131,460 1,195 21,344 598	179.558 41,202 134,089 1,219 609 2438 2438	24,553 73,110 136,771 1,243 9,668 622 2,467 2,267	186,812 42,867 139,507 1,268 2,536 	201,285 43,724 142,297 1,294 10,090 647 	2007/40 2007/4	2097/54 45,400 148,046 1,346 10,498 1,009 1,00 1,00	202211 46,400 151,006 1,373	2034 2034 2034 2034 2034 2034 2034 2034	211,452 48,275 157,107 1,429 	225,951 49,240 49,240 160,249 14,677 11,363 1,477 11,363 1,477 11,363 1,477 11,363 1,477 1,4	3.9191 57 267 27 20 20 5 5 4 4 4 TOTAL 13 13
Asset Type Il Scheduled Capital - Inflated and Surface - Asphalt and Surface - Suphalt and Surface - Sur	156,880 110,000 110,	2018 6,120 2018 2018 2018 2018 2018 2018	163,717 35,166 114,444 1,040 10,466 	175-269 35,869 116,733 1,061 16,953 	2021 2021 2021 2021 2021 2021 2021	192,350 37,318 121,449 1,104 19,719 	17/243 38.064 123.878 1.1.26 11.329 1.329 563 2.252 	189.717 38.826 126.355 11.149 20.516 	184,372 38,602 128,883 1,172 11,787	197,979 140,394 131,460 1,195 21,344	179,558 41,202 134,089 1,219 1	224,553 73,110 136,771 1,243 9,698 9,698 622 2,487	196,812 42,867 133,507 1,268 	201,285 43,724 142,297 1,294 10,090 647 	2031 2031 2031 2031 2031 2031	209754 45,490 148,046 1.346 10,498 10,498 2032 2032 2032 2032 2032 2032	202211 46,400 151,006 1.373 1.37 1.37 1.37 1.37 1.37 1.37 1.3	217,177 41,328 154,027 1,400 10,922	211,452 48,275 157,107 1,420 1	2236 51 1 2036 2036 2036 2036 2036 2036 2036 2036	3,919
Asset Type If Scheduled Capital - Inflated and Surface - Asphalt and Surface - Suphalt and Surface - Surface - Suphalt and Surface - Surface - Surface - Suphalt and Surface - Surface - Surface - Suphalt and Surface - Surfac	156,880 33,800 110,000 110,000 1,000	2018 2018 2018 2018 2018 2018 2018	163,7472 35,166 114,444 1,040 10,466	175,269 35,869 116,733 1,001 18,953 	2021 15,536 19,068 19,068 1,089 10,889 541 	192,350 37,318 121,449 1,104 19,719 	17/243 38.064 128.878 1.1,26 11,329 1.329 1.329 2023 2024 2024 2025	189.717 38.826 126.355 11.149 20.516 	184,372 39,602 128,883 1,172 11,787	197,979 40,334 131,460 1,195 21,344 598	179.558 41,202 134,089 1,219 609 2438 2438	24,553 73,110 136,771 1,243 9,668 622 2,467 2,267	186,812 42,867 139,507 1,268 2,536 	201,285 43,724 142,297 1,294 10,090 647 	2007/40 2007/4	2097/54 45,400 148,046 1,346 10,498 1,009 1,00 1,00	202211 46,400 151,006 1,373	2034 2034 2034 2034 2034 2034 2034 2034	211,452 48,275 157,107 1,429 	225,951 49,240 49,240 160,249 14,677 11,363 1,477 11,363 1,477 11,363 1,477 11,363 1,477 1,4	3.9191 57 267 27 20 20 5 5 4 4 4 TOTAL 13 13
Asset Type all Scheduled Capital - Intlated sold Survincer- Asphalt sold Survincer- Survive sold Survivers- Surviv	156,880 110,000 110,	2018 6,120 6,120 2018 2018 2018 2018 2018 2018 2018	163,717 35,166 114,444 1,040 10,466 	2020 2020 2020 2020 2020 2020 2020	2021 2021 2021 2021 2021 2021 2021 2021	192,350 37,318 121,449 1,104 19,719 	2023 2023 2023 2023 2023 2023 2023 2023	189.717 38.826 126.355 11.149 20.516 574 	184,372 38,602 128,883 1,172 11,787	197,979 140,394 131,460 1,195 21,344 598 598	179,558 41,202 134,089 1,219	224,553 73,110 136,771 1,243 9,698 622	196,812 42,867 133,507 1,268 	201,285 43,724 142,297 1,294 10,090 647 	2031 19,792 19,792 19,792 19,792 19,792 19,792 19,792 19,792 2031 22,997 23,791	2097454 45,490 148,046 1,346 10,498 1,009 2,009 2,692 2,692 2,692 2,692 2,692 2,792	202211 48,400 151,006 11,006 11,007 11,006 11,007 11,006 11,007 11,006 11,007 11,006 1	2034 2034 2034 2034 24,002	211,452 48,275 157,107 1,420 1	2236 1 4.370 2 2 3 4 4.370 2 3 5 6 4 4.370 4 4.568 4 4.370 4 4.570 4 4	3,919 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Asset Type all Scheduled Capital - Inflated sold Surfaces - Asphalt sold Surfaces - Surfaces - Surfaces - Surfaces sold Surfaces - Surfaces - Surfaces - Surfaces sold Surfaces - Surfa	156,880 33,800 110,000 110,000 1,000	2018 6,120 2018 2018 2018 2018 2018 2018	163,7472 35,166 114,444 1,040 10,466	175,269 35,869 116,733 1,001 18,953 	2021 2021 2021 2021 2021 2021 2021 2021	192,350 37,318 121,449 1,104 19,719 	17/243 38.064 123.878 11.26 11.26 11.329 11.	189.717 38.826 126.355 11.149 20.516 	184,372 39,602 128,883 1,172 11,787	197,979 40,334 131,460 1,195 21,344 598	179.558 41,202 134,089 1,219 609 2438 2438	24,553 73,110 136,771 1,243 9,668 622 2,467 2,267	186,812 42,867 139,507 1,268 2,536 	201,285 43,724 142,297 1,294 10,090 647 	2007/40 2007/4	2097/54 45,400 148,046 1,346 10,498 1,009 1,00 1,00	202211 46,400 151,006 1,373	217,177 41,328 154,027 1,400 10,922	211,452 48,275 157,107 1,429 	225,951 49,240 49,240 160,249 14,677 11,363 1,477 11,363 1,477 11,363 1,477 11,363 1,477 1,4	3,919 87 87 87 87 87 87 87 87 87 87 87 87 87
Asset Type all Scheduled Capital - Inflated sold Surfaces - Asphalt sold Surfaces - Surfaces - Surfaces - Surfaces sold Surfaces - Surfaces - Surfaces - Surfaces sold Surfaces - Surfa	156,880 110,000 110,000 110,000 120,	2018 2018 2018 2018 2018 2018 2018 2018 2018 2018 2018	163,7472 35,166 114,444 1,040 10,466 10,466 2,061 2,06	175,269 35,869 116,733 1,061 16,953 	2021 2021 2021 2021 2021 2021 2021 2021	192,350 37,318 121,449 1,104 19,719 	17/243 38.064 128.878 1.1,26 11,329 1.1,27 563 53 54 2.252 2023 2023 2023 2023 2023 2023 2023 2023 2023 2024 2024 2025 2025 2026 2027 202	189.747 38.826 126.355 11.149 20.516 	184,372 39,602 128,883 1,172 11,787	197,979 140,394 131,460 1,195 21,344	179,558 41,202 134,089 1,219	24,553 73,110 136,771 1,243 9,668 622 2,467 2028 2028	196,812 42,867 139,507 1,268 2,536 2,536 2,039 2029 2029 12,682 3,805 2,536	201,285 4 3,724 142,297 1,294 10,090 647 	2007.40 2007.4	2097/54 45,400 148,046 1,346 10,498 1,009 1,00 1,00	202211 46,400 151,006 1,373	217,177 47,328 154,027 1,400 10,922 2,500	211,452 48,275 157,107 1,429 	225,651 49,240 49,240 160,249 1,467 1,363 1,467 1,363 1,467 1,363 1,467 1,263	3.919 88 18 18 18 18 18 18 18 18 18 18 18 18
Asset Type all Scheduled Capital - Inflated sold Surfaces - Asphalt sold Surfaces - Surfaces - Surfaces - Surfaces sold Surfaces - Surfaces - Surfaces - Surfaces sold Surfaces - Surfa	156,880 110,000 110,000 110,000 120,	2018 6,120 6,120 2018 2018 2018 2018 2018 2018 2018 2	163,7472 35,166 114,444 1,040 10,466 10,466 2,061 2,06	175,269 35,869 116,733 1,061 16,953 	2021 2021 2021 2021 2021 2021 2021 2021	192,350 37,318 121,449 1,104 19,719 	17/243 38.064 123.878 11.26 11.26 11.329 11.	189.747 38.826 126.355 11.149 20.516 	184,372 38,602 128,883 1,172 11,787	197,979 140,394 131,460 1,195 21,344	179,558 41,202 134,089 1,219	24,553 73,110 136,771 1,243 9,668 622 2,467 2028 2028	196,812 42,867 139,507 1,268 2,536 2,536 2,039 2029 2029 12,682 3,805 2,536	201,285 4 3,724 142,297 1,294 10,090 647 	2007.40 2007.4	2097/54 45,400 148,046 1,346 10,498 1,009 1,00 1,00	202211 46,400 151,006 1,373	217.177 41,328 154,027 1,400 10,922	211,452 48,275 157,107 1,429 	2236 11,568 14,579 2314 7,284	3,919 87 87 87 87 87 87 87 87 87 87 87 87 87
al Scheduled Capital - Intilated and Surface - Asphalt and Surface - Suphalt - Surface - Surface - Suphalt - Surface	156,880 110,000 110,000 110,000 120,	2018 2018 2018 2018 2018 2018 2018 2018 2018 2018 2018	163,717 35,166 114,444 1,040 10,466 	175,269 35,869 116,733 1,061 18,953 	2021 2021 2021 2021 2021 2021 2021 2021	192,350 37,318 121,449 1,104 19,719 	2023 2023 2023 2023 2023 2023 2023 2023	189.747 38.826 126.355 11.149 20.516 	184,372 39,602 128,883 1,172 11,787	197,979 40,394 40,394 131,460 131,460 598	179,558 41,202 134,089 1,219 1,219 1,219 2027 2027 2027 2027 2027 2027 2027 202	24,553 73,110 136,771 1,243 9,098 622 2,467	186,812 42,867 139,507 1,268 2,536 2,536 2,029 2029 2029 2029 2029 2029 2029 2039 203	201,285 4 3,724 142,297 1,294 10,090 647 - - - - - - - - - - - - - - - - - - -	2031 2031	2032 2032 2032 2032 2032 2032	202211 46,400 151,006 151,006 1.373 2033 2033 2033 2033 2033 2033 2033 2	2034 2034 2034 2034 2034 2034 2034 2034	211,452 48,275 157,107 1,426 	2236 14,568 4,370 2,914 7,284	3,919 20 20 20 20 20 20 20 20 20 20 20 20 20
al Scheduled Capital - Intlated coal Surface - Asphill coal Surface - Suphill coal Surface - Surface - Suphill coal Surface - Sur	156,880 110,000 110,	2018 2018 2018 2018 2018 2018	163,717 35,166 114,444 1,040 10,466 	175-269 35,869 116,733 1,061 16,953 	2021 2021 2021 2021 2021 2021 2021 2021	192,350 37,318 121,449 1,104 19,719 	17/243 38.064 23.878 11.26 11.27 12.	189.717 38.826 126.355 11.149 20.516 	184,372 38,602 128,883 1,172 11,787	197,979 140,394 131,460 1,195 21,344	179,558 41,202 134,089 1,219 1,219 1,219 2,438 2,438 2,438 2,2438	24,553 73,110 136,771 1,243 9,698 622	186,812 42,887 133,507 1,268 	201,285 4 3,724 142,297 1,294 10,090 647 	2031 2031 2031 2031 2031 2031 2031 2031 2031 2031 2031 2031 2031 2031 2031 2031	2097454 45,490 148,046 1.346 10,498 10,498 2,692 2,692 2,692 2,032	202211 46,400 151,006 1.373 1.37 1.374 1.3	2034 2034 2034 2034 2034 2034	211,452 48,275 157,107 1,420 	2036 2036 2036 2036 2036 2036 2036 2036	3,919
al Scheduled Capital - Intlated coals Surface - Asphalt coals Surface - Suphalt coals suphalt coals - Suphalt - Suphalt coals - Suphalt - Suphalt coals - Suphalt - Suphal	156,880 156,	2018 2018	163,7472 35,166 114,444 1,040 10,466 1	175-269 35,869 116,733 116,	2021 2021 2021 2021 2021 2021 2021 2021	192,350 37,318 121,449 121,449 19,719 	2023 2023 2023 2023 2023 2023 2023 2023 2023 2023 2024 2025 2026 2027	189.747 38.826 126.355 11.149 20.516 	184,372 39,602 128,883 11,787	197,979 40,394 40,394 131,495 131,495 131,495 21,344 2026 2026 2026 2026 2026 2026 2026 20	179,558 41,202 134,089 1,219 1,219 1,219 2027 2027 2027 2027 2027 2027 2027 202	24,553 73,110 136,771 1,243 9,098 622	196,812 42,867 13,507 13,507 1,288 2,536 2	201,285 201,28	2031 2031 2031 2031 2031 2031 2031 2031	2032 2032 2032 2032 2032 2032 2032 2032 2032	202211 46,400 151,006 151,007 1,007	2034 2034 2034 2034 2034 2034 2034 2034 2034 2034 2034 2034	211,452 48,275 157,407 157,407 1,071	2236 11,568 12,564 12,5	3,919
al Scheduled Capital - Intilated and Souriese's Asshibit Souriese's Asshibit Souriese's Asshibit Souriese's Asshibit Souriese's Asshibit Souriese's Souriese's Souriese's Souriese's Souriese's Souriese's Souriese Souriese's Souriese Souri	156,880 110,000 110,	2018 2018 2018 2018 2018 2018	163,717 35,166 114,444 1,040 10,466 	175-269 35,869 116,733 1,061 16,953 	2021 2021 2021 2021 2021 2021 2021 2021	192,350 37,318 121,449 121,449 19,719 	17/243 38.064 23.878 11.26 11.27 12.	189.717 38.826 126.355 11.149 20.516 	184,372 38,602 128,883 1,172 11,787	197,979 140,394 131,460 1,195 21,344	179,558 41,202 134,089 1,219 1,219 1,219 2,438 2,438 2,438 2,2438	24,553 73,110 136,771 1,243 9,698 622	186,812 42,887 133,507 1,268 	201,285 4 3,724 142,297 1,294 10,090 647 	2031 2031 2031 2031 2031 2031 2031 2031 2031 2031 2031 2031 2031 2031 2031 2031 2031	2097454 45,490 148,046 1.346 10,498 10,498 2,692 2,692 2,692 2,032	202211 46,400 151,006 1.373 1.37 1.374 1.3	2034 2034 2034 2034 2034 2034	211,452 48,275 157,107 1,420 	2036 2036 2036 2036 2036 2036 2036 2036	3,919
al Scheduled Capital - Intilated and Surface - Asphalt and Surface - Suphalt - Surface - S	156,880 110,000 110,	2018 2018	163,7472 35,166 114,444 1,040 10,466 1	175-269 35,869 116,733 116,	2021 2021 2021 2021 2021 2021 2021 2021	192,350 37,318 121,449 121,449 19,719 	2023 2023 2023 2023 2023 2023 2023 2023 2023 2023 2024 2025 2026 2027	189.747 38.826 126.355 11.149 20.516 	184,372 39,602 128,883 11,787	197,979 40,394 40,394 131,495 131,495 131,495 21,344 2026 2026 2026 2026 2026 2026 2026 20	179,558 41,202 134,089 1,219 1,219 1,219 2027 2027 2027 2027 2027 2027 2027 202	24,553 73,110 136,771 1,243 9,098 622	196,812 42,867 13,507 13,507 1,288 2,536 2	201,285 201,28	2031 2031 2031 2031 2031 2031 2031 2031	2032 2032 2032 2032 2032 2032 2032 2032 2032	202211 46,400 151,006 151,007 1,007	2034 2034 2034 2034 2034 2034 2034 2034 2034 2034 2034 2034	211,452 48,275 157,407 157,407 1,071	2236 11,568 12,564 12,5	3,919 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
al Scheduled Capital - Intilated and Surface - Asphalt - Surface - S	156,880 156,	2018 2018	163,717 35,166 114,444 1,040 10,466 	175,269 35,869 116,733 1,061 18,953 	2021 2021	192,350 37,318 121,449 121,449 197,19 	2023 2023 2023 2023 2023 2023 2023 2023	189.747 38.826 12.4355 11.439 20.516 	184,372 39,602 128,883 1,172 11,787	197,979 40,394 40,394 131,495	179,558 41,202 134,089 1,219	24,553 73,110 136,771 1,243 9,098 622 2,467	186,812 42,867 13,507 13,507 1,288 2,536 2,536 2,536 2,536 3,305 2,536 3,305 2,536 3,305 2,536 3,305 2,536 3,305 2,536	201,285 4 3,724 142,297 1 2,294 1 10,090 647 	2031 2031	2032 2032 2032 2032 2032 2032 2032 2032 2032	202211 46,400 151,006 13,733	2034 2034 2034 2034 2034 2034 2034 2034 2034 2034 2034 2034 2034	211,452 48,275 157,407 157,407 157,407 1,071 1,0	2236 11.363 2036 2036 2.370 4.370 2.2914 7.284 2.2914 2.2	3.9191
Il Scheduled Capital - Inflated and Surface - Asphalt - Surface - Surface - Asphalt -	156,880 110,000 110,	2018 6,120 2018 16,207 2018 2018 2018 2018 2018 2018 2018 2018 2018 3,060	2019 2019 2019 2019 10,404 3,121 - 2,081 5,502 - 2,081 10,404 3,121 - 2,081 10,404 10,	2020 2020 2020 2020 2020 2020 2020 202	2021 2021 2021 2021 2021 2021 2021 2021	192,350 37,318 121,449 1,104 19,719 	2023 2023 2023 2023 2023 2023 2023 2023	189,747 38,826 126,355 11,409 20,516 574 574 2,297 2,297 2,297 2,297 2,297 2,297 3,446 4,47 2,297 3,446 4,47 4,47 4,47 4,47 4,47 4,47 4,47	184,372 38,602 128,883 1,172 11,787	197,979 40,334 131,460 1,195 21,344 598 598	179,558 41,202 134,089 1,219	24,553 73,110 136,771 1,243 9,698 9,698 12,494 2028 2028 2028 12,494 3,790 2,467 6,217 2,467 2	2029 2029 2029 2029 2029 2029 2029 2029	201,285 4 3,724 142,297 1,294 10,090 647 	2031 19,792 19,792 19,792 19,792 19,792 19,792 19,792 19,792 19,792 2031 2031 23,997 23,751 2	2037 2032 2032 2032 13,459 4,035 4,0	2032 2033 2033 13,728 4,115 4,15 2033 13,728 4,115 4,15 2033 2033 13,728 4,115 4,15 2033 2033 13,728 4,115 4	2034 14,002 14,002 1,000 10,922 	211,452 48,275 157,107 1,420 1,42	2236 11.568 236 14.57 2.2914 2.30 2036 14.568 2.31 2.31 2.31 2.31 2.31 2.31 2.31 2.31	3.9191

2016 Asset Management Plan Scheduled Capital Replacement - Uninflated Scenario 2

Capital Start \$1,000,000

Tax Supported Assets

Asset Type	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	TOTAL
Scenario 2a - \$1,000,000 + 0.5%	1,000,000	1,012,500	1,025,000	1,037,500	1,050,000	1,062,500	1,075,000	1,087,500	1,100,000	1,112,500	1,125,000	1,137,500	1,150,000	1,162,500	1,175,000	1,187,500	1,200,000	1,212,500	1,225,000	1,237,500	22,375,000
Scenario 2b - \$1,000,000 + 1%	1,000,000	1,025,000	1,050,000	1,075,000	1,100,000	1,125,000	1,150,000	1,175,000	1,200,000	1,225,000	1,250,000	1,275,000	1,300,000	1,325,000	1,350,000	1,375,000	1,400,000	1,425,000	1,450,000	1,475,000	24,750,000
																					-

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2016 Asset Management Plan Scheduled Capital Replacement - Inflated Scenario 2: Capital Phased-In Approach - Medium Deferral (Recommended)

Tax Supported Assets

Inflation Factor 100.0% 102.0% 104.0% 106.1% 108.2% 110.4% 112.6% 114.9% 117.2% 119.5% 121.9% 124.3% 126.8% 129.4% 131.9% 134.6% 137.3% 140.0% 142.8% 145.7%

Asset Type	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	TOTAL
Scenario 2a	1,000,000	1,032,750	1,066,410	1,101,003	1,136,554	1,173,086	1,210,625	1,249,196	1,288,825	1,329,540	1,371,369	1,414,338	1,458,478	1,503,818	1,550,388	1,598,219	1,647,343	1,697,793	1,749,602	1,802,804	27,382,139
Scenario 2b	1,000,000	1,045,500	1,092,420	1,140,799	1,190,675	1,242,091	1,295,087	1,349,706	1,405,991	1,463,988	1,523,743	1,585,302	1,648,714	1,714,029	1,781,296	1,850,569	1,921,900	1,995,344	2,070,957	2,148,796	30,466,908

Watson & Associates Economists Ltd. Z:\ARUNAS\Amaranth\Appendix C