2017
Asset Management Plan

Clarington

Memo

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At the October 10, 2017 Council meeting, the following Resolution GG-422-17 was approved:

That Report FND-014-17 be received;

That the 2017 Comprehensive Asset Management Plan for the Municipality of Clarington, be received to comply with the funding agreements; and

That a further update be forthcoming once the new regulations are implemented.

Nancy Taylor, BA, CPA, CA
Director of Finance/Treasurer

2017 Asset Management Plan
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1.0 Executive Summary

This Asset Management Plan (AMP) is the first comprehensive plan for the Municipality of Clarington. It is assembled from multiple sources, databases and studies. The AMP will support the management of the Municipality's infrastructure portfolio now and into the future thereby sustaining service delivery for our citizens. The Plan is a living document that is intended to meet provincial requirements and improve over time.

The estimated replacement value of the Municipality of Clarington's assets, in 2016 dollars, is approximately $756 million. The cost per household for the infrastructure portfolio is $22,683, based on 33,328 households. The estimated infrastructure deficit based on December 31, 2015 is approximately $92 million for all assets or 12% of the replacement value. This report is based on the audited year end 2015 as 2016 was not complete at the time of developing this strategy. In comparison, for the roads and bridges only in the 2012 AMP, the infrastructure deficit was approximately $78 million, or 14% of the replacement value of the assets.

The AMP recommends that the Municipality's infrastructure deficit be spread evenly over the next 20 years with a 2% tax levy increase for the first ten (10) years and a 1% tax levy increase for the next ten (10) years. This is identified as Scenario #3. Achieving this scenario financially will entail increases to the contributions to the Reserve Funds annually and utilizing effectively some of our available debt capacity. The scenario minimizes required debt over the 20 years with minor funding still available in year 21 for the subsequent AMP requirements.

2.0 Introduction

2.1 Corporate Asset Management Plan Overview

The 2017 Corporate Asset Management Plan is the first comprehensive plan incorporating all of the Municipality of Clarington's assets. The plan addresses all municipal assets used in the delivery of services with associated trends, risks, level of service, asset management strategies and funding strategies required for sustainability over the next 20 year period. The plan is a living document and will continue to evolve and be updated annually. A full re-evaluation of the plan is intended at least every five (5) years ensuring that projections are available for asset management decision-makers.

2.2 Purpose of the Asset Management Plan

This plan will provide a detailed scope of current infrastructure, including number of assets in the inventory, current replacement value, funding provided annually for infrastructure improvements, value of funding required to sustain the current infrastructure and determining if funding is currently in a surplus or deficit. The plan includes various funding scenarios depicting alternatives to deal with the surplus or deficit for staff and council to determine the most appropriate scenario. This allows the Municipality to provide a reasonable level of service, as well as a more consistent annual budget value for infrastructure.

2.3 Development of the Asset Management Plan

This AMP was developed by the Municipality of Clarington's Finance Department. Information regarding the current infrastructure was compiled from the current PSAB 3150 database which is maintained in CityWide software. This software aids in calculating replacement costs, tracking condition and risk, computing funding options and creating funding scenarios. Support to this plan was provided by all departments, particularly Engineering, Operations and Community Services.

2.4 Supporting Municipality of Clarington's Goals

The Municipality of Clarington's Strategic Plan 2015-2018 laid out six (6) key results setting the direction and vision for '*Building a sustainable, creative, caring community'*. Clarington's mission is to be committed to leadership, to respect and to the delivery of quality services. These key strategic priorities are as follows:

1. Facilitate the creation of jobs, attraction of new businesses and expansion of existing businesses
2. Ensure and demonstrate good governance and value for the tax dollar
3. Manage growth to maintain our 'small town' feel
4. Enable safe, efficient traffic flow and active transportation
5. Promote residents' engagement in our community
6. Enhance access to our unique natural environment

This plan is intended to support these strategic goals. The Corporate Asset Management Plan must also consider the goals of the *Official Plan* which contains Clarington's objectives and policies for the provision of municipal services and facilities. The 'key results' are under constant pressure and must continue to be carefully tended.

2.5 Linkages to Other Strategic Documents

There are a plethora of documented information in Clarington that the new Corporate Asset Management Plan needs to complement and support. Currently and historically the Municipality of Clarington uses a number of budgets, plans and strategies to manage the wide scope of its municipal services.

2.6 Linkages to the Corporate Asset Management Plan

- **Budgets** (Operational and Capital)

The operating budget is an annual estimate of revenues and expenditures. It aligns Municipal priorities with the services Clarington delivers to its residents. The Capital budget is a five (5) year forecast that focuses on infrastructure needs, timing and financing of future projects.

- **Corporate Strategic Plan**

The Corporate Strategic Plan provides direction for the activities of the Corporation which are in turn supported by the assets of the Corporation.

- **Official Plan**

The Official Plan sets the criteria for the Municipality in a regulatory format and provides parameters surrounding asset decision making practices. Among other things, the Official Plan provides direction for the allocation of land use, the provision of municipal services and facilities.

- **Transportation Master Plan**

The Clarington Transportation Master Plan (CTMP) is a strategic document that will guide the renewal and improvement of Clarington's transportation network over the next 20 years and beyond. The purpose of the plan is to create a coordinated, integrated, realistic and accessible multi modal transportation system. Our vision is to provide healthy, safe and convenient travel choices so that people and goods can move efficiently around Clarington.

- **Fire Master Plan**

The Fire Master Plan is a document that provides the groundwork and vision for the operations of the Emergency Services department. It guides Council as it makes decisions regarding the delivery of fire protection services based on the Municipality's local needs and circumstances. It lays out future capital expansion and replacement needs.

- **Indoor Facilities Development Strategy**

Provides a framework to guide investments in new and/or existing facilities to meet needs of residents to the year 2031.

- **Roads Needs Study**

The report summarizes the road system survey which identifies the condition of each road asset by its time of need and recommends maintenance, rehabilitation or reconstruction treatment.

- **Energy Management Plan (2014-2019)**

The Energy Management Plan is a strategy to improve the overall energy efficiency of operations within the control of the Municipality. This plan includes the promotion and practice of energy conservation through increased awareness and green procurement.

- **By-laws, policies, plans of subdivision, departmental plans**

Generally these more detailed documents provide the information required to assist in compiling the Plan.

2.7 Key Sections of the Asset Management Plan Applicable to Asset Categories

Several key sections included in the analysis of each asset category are listed and discussed below:

State of Infrastructure

Identifies the current standing of the asset infrastructure by providing the current replacement costs as well as the number of assets included in that category. Provides a condition rating for all assets included in the category and thus determining the current condition standing of the entire category. Highlights the current value of assets overdue for replacement and measures needed in order to rehabilitate those assets. Determines an annual capital funding requirement for assets being replaced in the next 20 years.

Levels of Service

The desired level of service will be determined by comparing current performance measures to previous values from those same measures. In order to determine more refined levels of service, further development in this area will occur over time. Current service levels will assist in the selection of the desired levels of service, as well as ensure that they are achievable levels with respect to financial sustainability.

Asset Management Strategy

The strategy provides a plan of action in order to maintain the Municipality's desired level of service. Provides the most cost effective approach for reaching the desired service levels and procedures to minimize risks associated with failing to meet these service levels. Includes a 20 year requirements list to allow monitoring to ensure the work is completed on a priority based level and in a timely manner.

Financial Management Strategy

The financial management strategy utilizes information gathered in the above noted sections of the asset management plan to provide funding options for all the required infrastructure needs. The strategy includes current budget requirements for infrastructure needs. In the case that financing does not meet the infrastructure needs this section will provide options available for managing the deficit and allow for the appropriate action to be undertaken.

2.8 Asset Management Plan (AMP) Relationship with Municipal Planning

The AMP directly affects the way a municipality budgets for infrastructure items. The AMP provides the required value of annual funding to maintain a desired level of service, which can be directly used in the capital budget process to ensure that infrastructure work is fully funded and limits deficits due to infrastructure. In addition to the annual funding, the AMP provides a plan for work that is required annually for the next 20 years, thus providing a better longer term budget perspective and providing greater information to support future budget needs.

The asset management plan will provide assistance and support to multiple areas of the municipality, such as:

- Decisions for levels of service being provided and related investment decisions
- Planning and management of capital assets
- Meeting a sustainable service level provided to the public
- Meeting upper level government standards and requirements

The asset management plan will be an essential document in assisting staff and Council to make informed decisions regarding infrastructure investment. It will provide condition details to ensure the infrastructure can perform the required services. An annual review of the AMP will be beneficial for future versions of the plan, due to the ever changing infrastructure requirements, evolution of technological advancements and changing societal expectations.

2.9 Limitations of a Corporate Asset Management Plan

The Municipality's first comprehensive asset management plan was prepared based on best available information rather than a fully implemented Corporate Asset Management program. Some factors to consider, include:

1. There is no current centralized asset management program for the Municipality of Clarington. Although one is under development, this activity takes years to fully implement. This means different areas have different practices thereby having an impact upon asset management capabilities for comparisons and prioritization.

2. Tangible Capital Asset software is still being developed for asset management capabilities. As the software grows and develops, more robust and complex scenarios and strategies can be utilized.

3. The level of service indicators is still at the beginning stages of being developed. Further work to expand on these metrics will take place in the next couple of years as industry standards are developed. The provincial Ministry of Infrastructure is looking at evolving work in this area.

4. Clarington addresses condition ratings in three (3) ways:

- Condition may be technically assessed and reported on in a quantifiable technique. This method is the most accurate and most expensive (i.e. Pavement Quality Index)
- Condition may be assumed based on age and estimated useful life
- Finally, condition may be based on the expert opinion of the staff using the asset.

However, many asset types do not have objective condition assessment information. The resultant information becomes theoretical based on estimated useful life.

5. Given the type and level of data available for condition, risk and level of service indicators, there is limited ability to accurately determine trends at a detailed level.

6. The Municipality generally prepares informal business cases based on the estimated up front capital cost rationalized against the perceived need of the project. Life cycle costs are not typically considered in the current process and usually no adjustment of the Operating Budget is made to accommodate the project until after the asset is operational. Improved linkages to maintenance strategies will be developed.

   All these limitations will be resolved over time as the Corporate Asset Management program evolves. There will be improved confidence in asset related data and the Municipality will develop the ability to optimize decision-making using level of service and risk factors.

2.10 Plan Monitoring and Review

This document is Clarington's first comprehensive Corporate Asset Management Plan, an important tool for use in the corporate asset management program. Over time and the implementation of the program, the plan is expected to develop and improve. In order to be effective it is important that the Municipality monitor and update the plan routinely. This section of the plan sets forward the activities planned to monitor and enhance the Corporate Asset Management Plan. This work is detailed further in Section 5 Asset Management Strategy.

The Municipality of Clarington promotes a culture of continual improvement and innovation. The intent of delivering a common structured approach to asset management across the municipality is not to restrict creativity but to enable the right decisions to be made at the right time for the right amount. In practice, this means less waste and more opportunity to use limited resources on new opportunities. The asset management program is not exempt from exposure to the need for continual improvement. The performance of the program needs to be managed in a disciplined way. Performance benchmarking and regular collection of customer feedback will be utilized in the further improvements to the plan. Initiatives to monitor the plan include:

- Track key performance indicators to monitor and track poor performing assets and effects of maintenance/replacement strategies
- Track investments and deviations from planned investments
- Ensure plan is updated annually with a full update every five (5) years
- Include past years performance data in future plan versions and show trends
- Review improvement opportunities as part of updating the Corporate Asset Management Plan

Through these actions, the Municipality will monitor and review the plan to ensure its continuing suitability, adequacy and effectiveness.

3.0 State of Infrastructure

3.1 Inventory: What do we own? What is it worth?

The Municipality of Clarington's asset inventory consists of nine (9) major categories; bridges and culverts, buildings, erosion control, fleet, land, miscellaneous, parks, roads and roadside, and storm water management. The tables highlight Clarington's asset inventory breakdown by asset category. The Municipality's asset management database software, CityWide, stores the source information for the inventory.

Detailed Inventory and Replacement Values

BRIDGES & CULVERTS				
Asset Type	**Asset**	**Inventory**	**Historic Cost**	**Replacement Value as of 12/31/2016**
Bridges	Cast in Place	82	$ 7,576,741	$ 31,483,139
	Precast Concrete	13	$ 10,876,951	$ 25,019,988
	Steel	3	$ 475,525	$ 1,202,932
	Timber/Wood	2	$ 107,196	$ 699,963
Culverts	Culverts	152	$ 13,969,833	$ 41,553,257
		252	**$ 33,006,246**	**$ 99,959,279**

BUILDINGS				
Asset Type	**Asset**	**Inventory**	**Historic Cost**	**Replacement Value as of 12/31/2016**
Corporate Facilities	Administrative Buildings	1	$ 14,912,018	$ 9,251,241
	Maintenance Buildings	1	$ 465,829	$ 1,102,701
	Old Newcastle Fire Hall	1	$ 206,312	N/A
Health Services	Cemetery Building	1	$ 81,887	$ 100,333
Planning & Development	Tourism Information Office	1	$ 123,000	$ 76,302
Protection Services	Animal Control	1	$ 430,509	$ 303,660
	Fire Stations	5	$ 8,901,874	$ 4,616,048
Recreational & Cultural	Arenas	5	$ 30,031,873	$ 29,792,714
	Pools	3	$ 27,793,568	$ 16,885,849
	Indoor Soccer Facility	1	$ 3,362,681	$ 2,070,299
	Community Centres	13	$ 4,150,768	$ 5,427,744
	Museums & Art Centres	4	$ 1,127,658	$ 1,561,623
	Library	4	$ 8,779,600	$ 3,365,331
Transportation Services	Roads Maintenance Depot	3	$ 1,964,188	$ 2,422,332
		44	**$ 102,331,765**	**$ 76,976,177**

Old Newcastle Fire Hall: Not to be Replaced - the property will either be sold or used for other purposes

Building Structures and Interiors: The replacement value of these building assets have been calculated at a rate of 25% of the total replacement value as it's unlikely the concrete structures and interiors would be completely demolished and replaced.

EROSION CONTROL				
Asset Type	**Asset**	**Inventory**	**Historic Cost**	**Replacement Value as of 12/31/2016**
Erosion Control	Erosion Control	16	$ 3,344,624	$ 3,634,550
		16	**$ 3,344,624**	**$ 3,634,550**

FLEET				
Asset Type	**Asset**	**Inventory**	**Historic Cost**	**Replacement Value as of 12/31/2016**
Fleet	Aerial Trucks	2	$ 1,865,221	$ 2,072,021
	Attachments	22	$ 277,736	$ 313,599
	Cars and Vans	18	$ 521,652	$ 578,691
	Heavy Duty Trucks	39	$ 6,368,039	$ 8,201,651
	Ice Resurfacers	6	$ 476,761	$ 539,972
	Light Duty Trucks	29	$ 957,154	$ 1,075,582
	Loaders/Graders/Chippers	13	$ 2,229,853	$ 2,631,861
	Medium Duty Trucks	15	$ 810,827	$ 911,466
	Pumpers	8	$ 3,489,405	$ 6,190,244
	Tankers	5	$ 844,169	$ 1,315,320
	Tractors/Mow ers/ATV's	17	$ 831,144	$ 929,372
	Trailers	20	$ 488,985	$ 551,410
	Unlicensed Fleet Equipment	6	$ 182,501	$ 211,836
		200	**$ 19,343,447**	**$ 25,523,025**

LAND				
Asset Type	**Asset**	**Inventory *(Parcels of Land)***	**Historic Cost**	**Replacement Value as of 12/31/2016**
Land	Environmental Services	15	$ 3,125,127	n/a
	General Government	427	$ 33,993,402	n/a
	Health Services	20	$ 259,097	n/a
	Planning and Development	12	$ 2,397,877	n/a
	Protection Services	6	$ 538,934	n/a
	Recreation and Cultural	157	$ 22,939,794	n/a
		637	**$ 63,254,231**	

MISCELLANEOUS				
Asset Type	**Asset**	**Inventory**	**Historic Cost**	**Replacement Value as of 12/31/2016**
Miscellaneous Assets	Bunker Suits (Pooled Asset)	n/a	$ 337,725	$ 362,390
	Communications	16	$ 743,895	$ 838,404
	Communications - Fire	4	$ 756,991	$ 789,107
	Computer Hardware (Pooled As	n/a	$ 526,282	$ 552,348
	Computer Software	36	$ 1,544,763	n/a
	Defibrillators	2	$ 11,736	n/a - no longer considered TCA
	Equipment	38	$ 949,865	$ 1,036,199
	Misc. Assets	4	$ 544,224	$ 625,427
	Paved Parking Lots	42	$ 4,101,157	$ 5,809,496
	Central Parking Meters	6	$ 51,124	$ 64,759
		148	**$ 9,567,762**	**$ 10,078,130**

Pooled Asset: assets of value below the materiality threshold ($5,000) when considered on an individual basis but collectively make up a significant group of assets that exceeds the threshold level of $50,000

Computer Software: Not to be Replaced -as the software condition doesn't deteriorate and future technology changes cannot be determined (ie. Cloud Based)

PARKS				
Asset Type	**Asset**	**Inventory**	**Historic Cost**	**Replacement Value as of 12/31/2016**
Parks	Play Courts	29	$ 587,027	$ 906,457
	Parks-Miscellaneous	36	$ 2,323,587	$ 2,920,646
	Play Fields	84	$ 6,292,290	$ 1,392,881
	Playground Equipment	60	$ 2,461,479	$ 2,830,016
	Playground Equipment-Water	13	$ 1,818,346	$ 2,059,617
	Structures	78	$ 4,264,624	$ 2,510,512
	Trails & Paths	81	$ 2,400,852	$ 2,614,504
		381	**$ 20,148,205**	**$ 15,234,633**

Grass Play Fields: Not to be Replaced - as resurfacing sod not considered capital but rather a maintenance issue.

Play Field Lights: Not to be Replaced - as they are only replaced if damaged by an unforseen accident

ROADS AND ROADSIDE				
Asset Type	**Asset**	**Inventory**	**Historic Cost**	**Replacement Value as of 12/31/2016**
Roads	Roads - Base	974 km	$ 217,274,442	$ 234,923,705
	Roads - Surface	869 km	$ 78,731,702	$ 165,688,896
Roadside	Traffic Control Signals	18	$ 1,442,894	N/A
	Guiderails	25 km	$ 3,017,519	$ 3,982,152
	Sidewalks (Pooled Asset)	n/a	$ 21,607,908	N/A
	Street Lights (Pooled Asset)	n/a	$ 15,089,698	N/A
			$ 337,164,163	**$ 404,594,753**

Pooled Asset: assets of value below the materiality threshold ($5,000) when considered on an individual basis but collectively make up a significant group of assets that exceeds the threshold level of $50,000

Traffic Control Signals & Street Lights: Not to be Replaced - as they are only replaced if damaged by an unforeseen accident

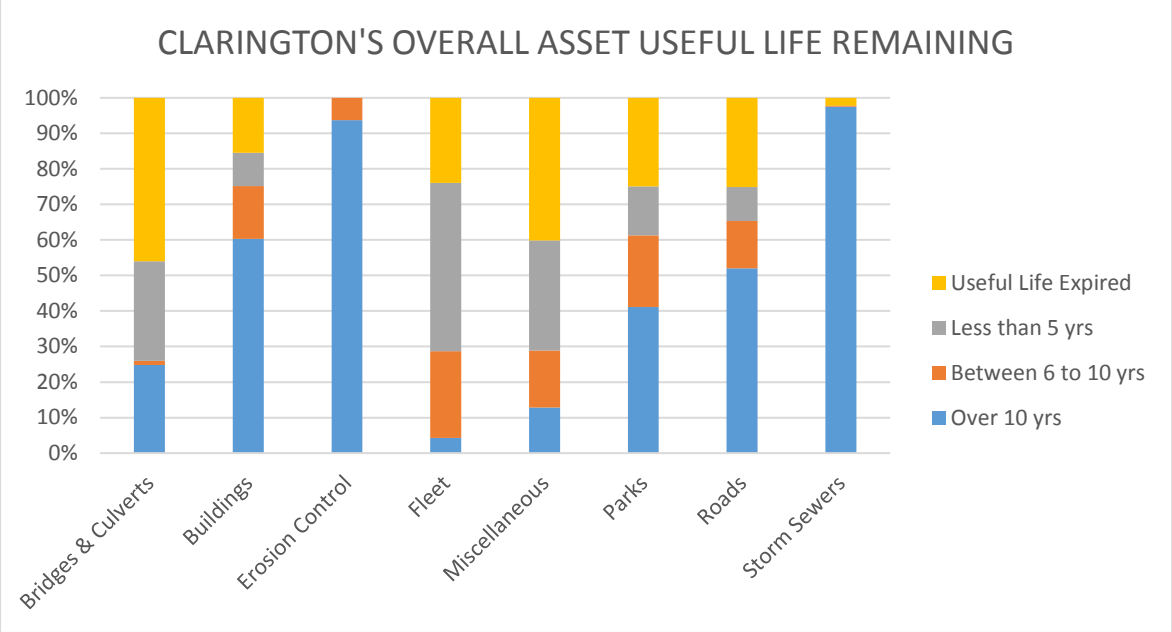
Sidewalks: Not to be Replaced - as they are only replaced in small sections as a maintenance issue and rarely fully replace entire segments

Roads - Base (RURAL): Not to be Replaced - as they typically don't require complete replacement

STORM SEWERS				
Asset Type	**Asset**	**Inventory**	**Historic Cost**	**Replacement Value as of 12/31/2015**
Storm Sewers	Conduit	226	$ 62,721,875	$ 90,653,512
	Structures	4,172	$ 12,514,853	$ 18,138,832
	Storm Water Management Ponds	25	$ 8,284,250	$ 11,173,588
		4,423	**$ 83,520,978**	**$ 119,965,932**

3.2 Inventory: Asset Useful Life

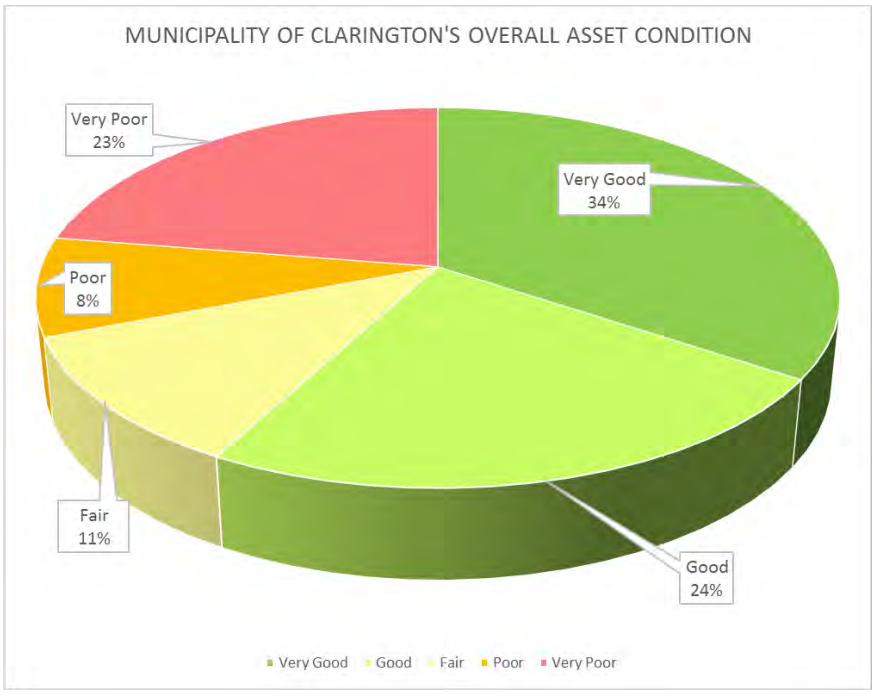
The estimated useful life of an asset is the period of time when it can be expected to provide useful service. The estimated remaining useful life of a tangible asset is considered a good starting point to estimate the overall well-being of an asset pool; however, in many cases the percentage of useful life consumed may not be the most suitable indicator of current asset condition. Infrastructure assets in particular undergo a continual process of repair, rehabilitation and refurbishment in order to maintain their intended purpose. For example, roads and facilities undergo continual maintenance and rehabilitation and hence age may not be the most suitable indicator to use for asset management planning. In Clarington, condition ratings for some of our asset categories portray a more realistic assessment of our needs.



3.3 Inventory: What condition is it in?

The condition of each asset group was evaluated to represent the current 'health' of the Municipality's infrastructure. In the future, the hope is to expand this assessment to include other service measurables such as adequacy and reliability, to better reflect the ability of the Municipality's assets to deliver services.

The results of the condition assessment for Clarington's assets equates to 58% percent of all our assets having a condition of good to very good. Our Municipality has only 31% of our assets that are poor to very poor that require either renewal or replacement consideration. The percentages are based on the replacement costs of the asset and not based on the number of owned assets.



A five-point rating scale is used to align with the National Infrastructure Report Card produced by the Canadian Society for Civil Engineering (CSCE), the Canadian Public Works Association (CPWA), the Canadian Construction Association (CCA) and the Federation of Canadian Municipalities (FCM). In addition to providing a sound basis for assessment, this will allow for high-level benchmarking comparable to other municipalities.

Summary		Definition
1	**Very Good** *Fit for the future*	The infrastructure in the system or network is generally in very good condition, typically new or recently rehabilirtated. A few elements show general signs of deterioration that require attention
2	**Good** *Adequate for now*	The infrastructure in the system or network is in good condition; some elements show general signs of deterioration that require attention. A few elements exhibit significant deficiences.
3	**Fair** *Requires Attention*	The infrastructure in the system or network is in fair condition; it shows general signs of deterioration and requires attention. Some elements exhibit significant deficiences.
4	**Poor** *At risk*	The infrastructure in the system or network is in poor condition and mostly below standard, with many elements approaching the end of their service life. A large portion of the system exhibits significant deterioration.
5	**Very Poor** *Unfit for sustained service*	The infrastructure in the system or network is generally in unacceptable condition with widespread signs of advanced deterioration. Many components in the system exhibit signs of imminent failure, which is affecting service

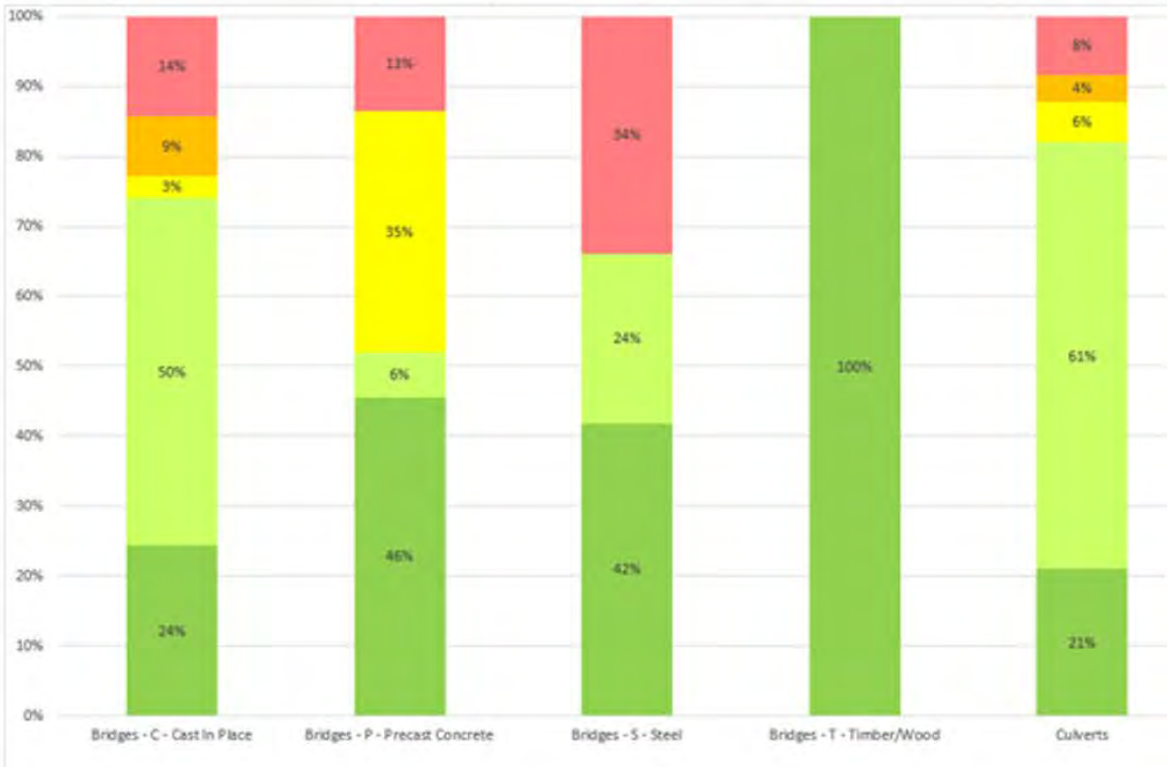
3.4 Condition Summaries by Asset Category

Bridges and Culverts

Bridges and Culverts: Overview	Replacement Value: **$99,959,279**

Of the 243 bridges and culverts, 78% of them are in good to very good condition based on the Bridge Condition Index(BCI). Clarington has 31 Bridges or culverts that fall into the very poor classification.

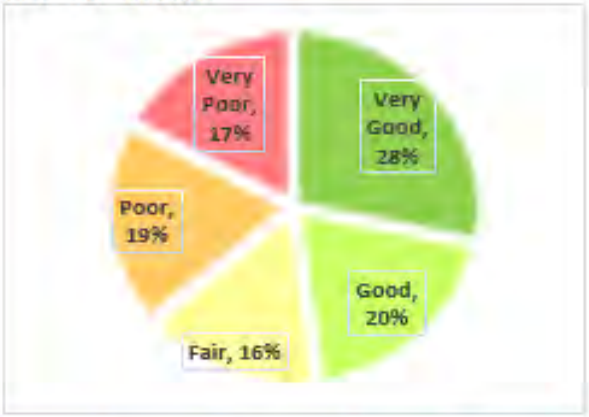
Very Good	Good	Fair	Poor	Very Poor
71 Assets	119 Assets	12 Assets	10 Assets	31 Assets
71.00 unit(s)	119.00 unit(s)	12.00 unit(s)	10.00 unit(s)	31.00 unit(s)
$29,777,614.00	$42,902,931.00	$12,044,305.00	$4,290,174.00	$10,944,255.00



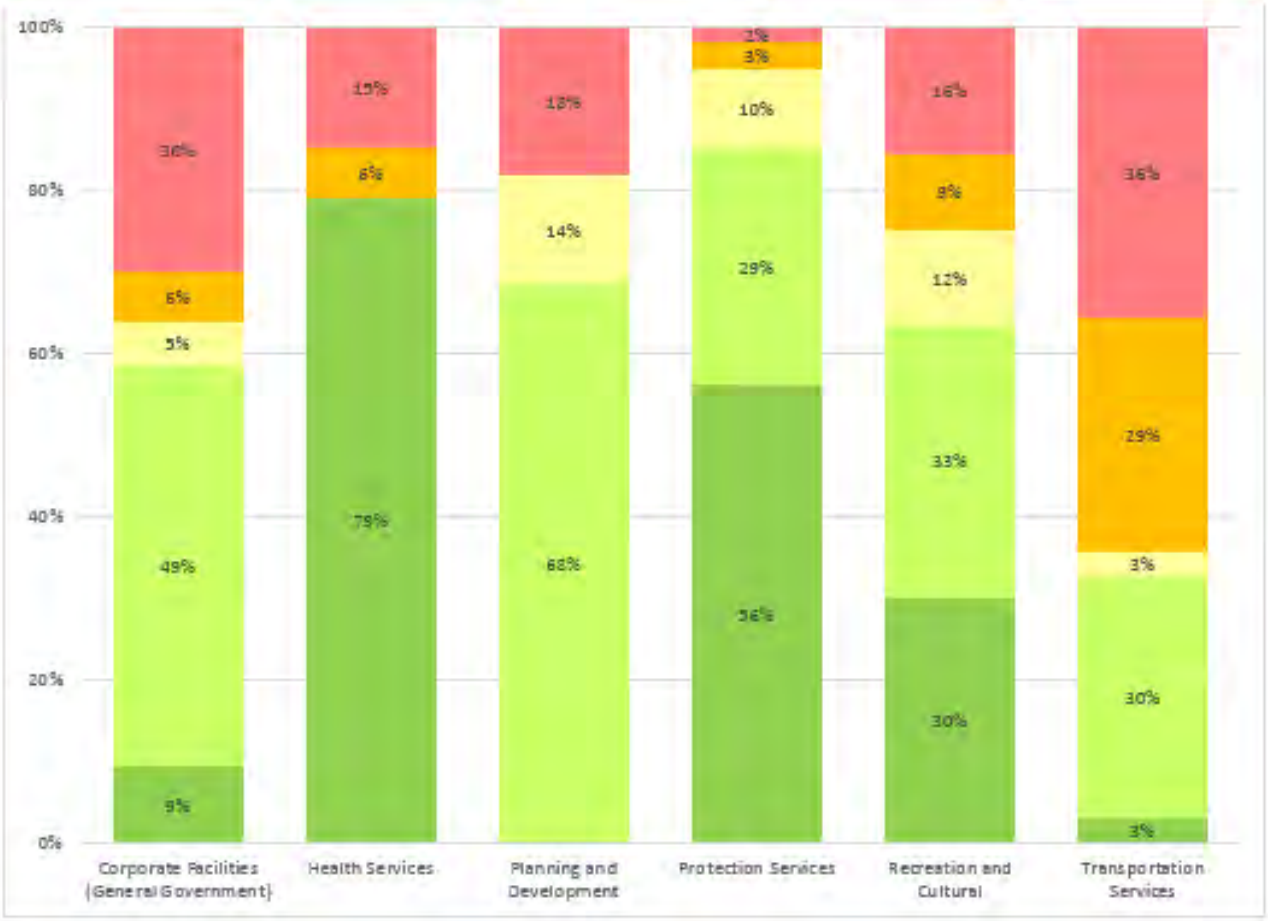
Buildings

Buildings: Overview	Replacement Value: **$76,976,177**

The Municipality's buildings condition ratings are based solely on age. This is an area we are looking to improve on for the next AMP. According to our age-based condition rating system, we have 48% of our buildings in good to very good condition. There are 44 buildings in our inventory but for AMP purposes each component of the building is separated out comprising a total of 827 'assets'.



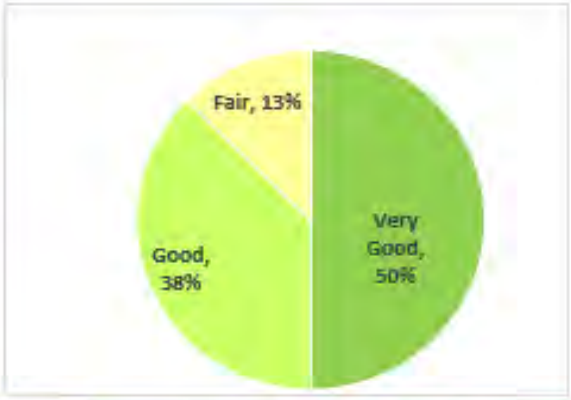
Very Good	Good	Fair	Poor	Very Poor
234 Assets	163 Assets	133 Assets	157 Assets	140 Assets
234.00 unit(s)	162.00 unit(s)	133.00 unit(s)	157.00 unit(s)	140.00 unit(s)
$16,695,584.00	$22,830,893.00	$14,616,445.00	$9,531,371.00	$13,301,884.00



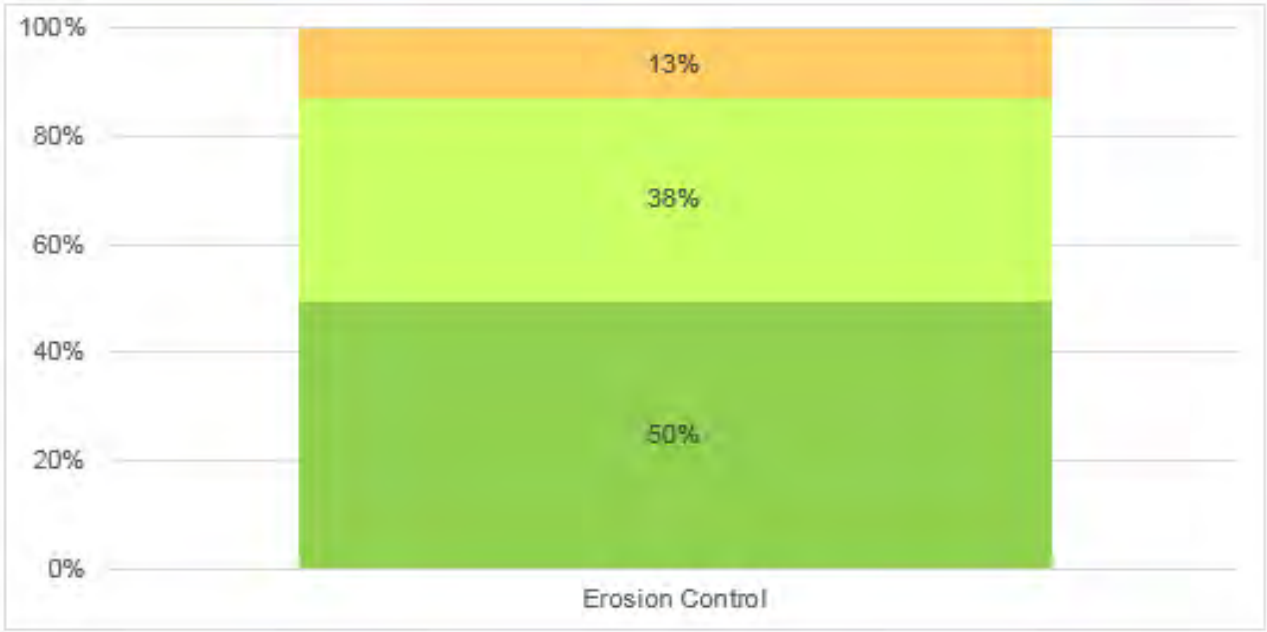
Erosion Control

Erosion Control: Overview	Replacement Value: **$3,634,550**

With only 16 identified Erosion Control assets, the Municipality has maintained them to be mainly in a good to a very good condition. These assets have been included with road segments or bridges in the past and will be identified as separate assets moving forward.



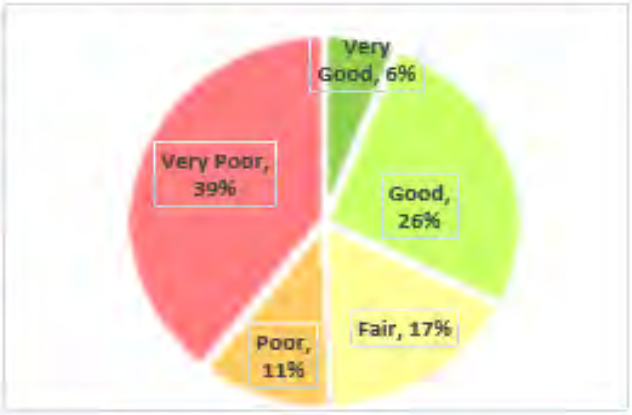
Very Good	Good	Fair	Poor	Very Poor
8 Assets	6 Assets	2 Assets	0 Assets	0 Assets
8.00 unit(s)	6.00 unit(s)	2.00 unit(s)	-	-
$2,124,333.00	$1,148,146.00	$362,071.00	$0.00	$0.00



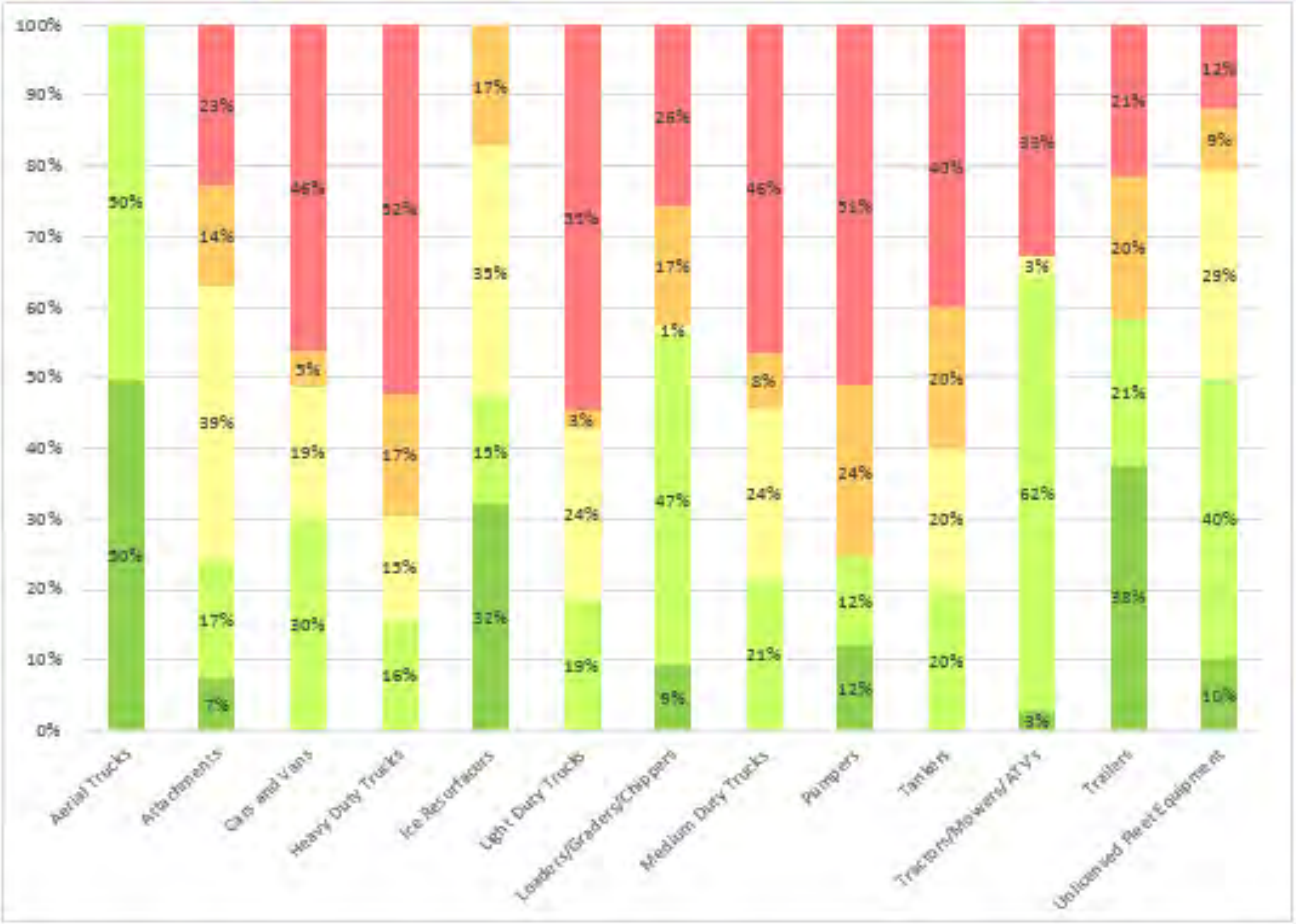
Fleet

Fleet: Overview	Replacement Value: **$25,523,025**

The condition rating for our fleet is solely age-based. We have 32% of our fleet that is in good to very good condition. We have 80 vehicles either being used past their useful life or approaching it within the next year based in our fleet replacement policy. Permanent attachments to vehicles are excluded below.



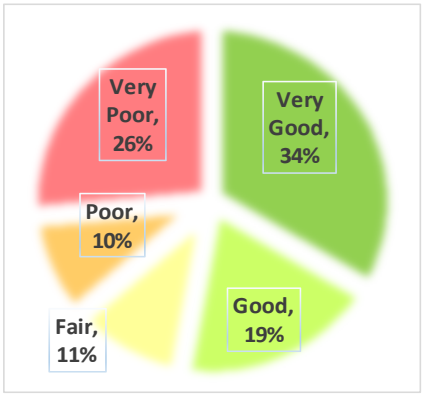
Very Good	Good	Fair	Poor	Very Poor
12 Assets	53 Assets	35 Assets	23 Assets	80 Assets
12.00 unit(s)	52.00 unit(s)	35.00 unit(s)	23.00 unit(s)	80.00 unit(s)
$2,481,782.00	$6,048,894.00	$2,515,592.00	$4,036,445.00	$10,440,312.00



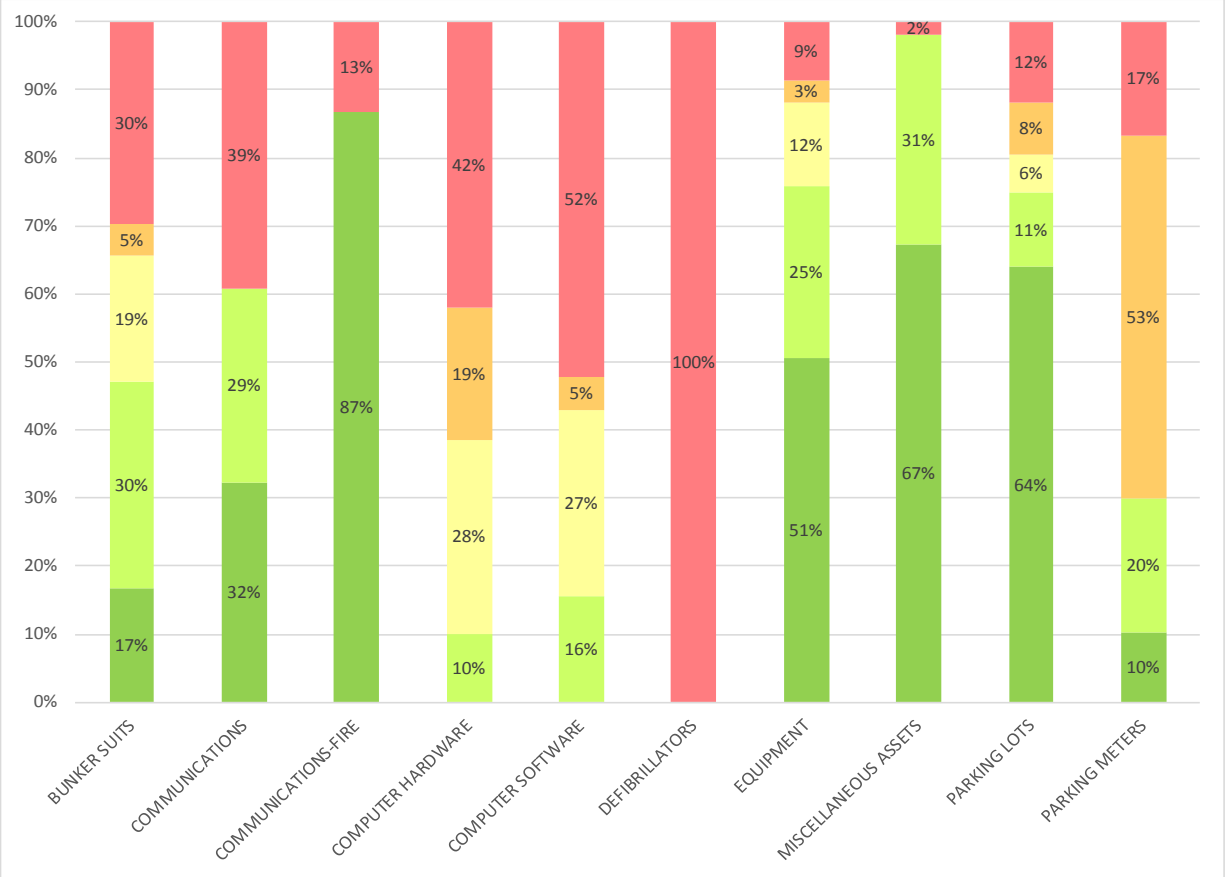
Miscellaneous

Miscellaneous: Overview	Replacement Value: **$10,078,130**

This asset category is a catch all for assets that don't fit into the other major classifications. These assets are usually of smaller dollar value. The defibrillators are being phased out of TCA due to their unit costs decreasing below our $5,000 threshold. Assets not to be replaced are excluded and pooled assets are included.



Very Good	Good	Fair	Poor	Very Poor
47 Assets	27 Assets	15 Assets	14 Assets	37 Assets
47.00 unit(s)	27.00 unit(s)	15.00 unit(s)	14.00 unit(s)	37.00 unit(s)
$5,367,943.00	$1,410,075.00	$991,442.00	$630,518.00	$1,678,152.00

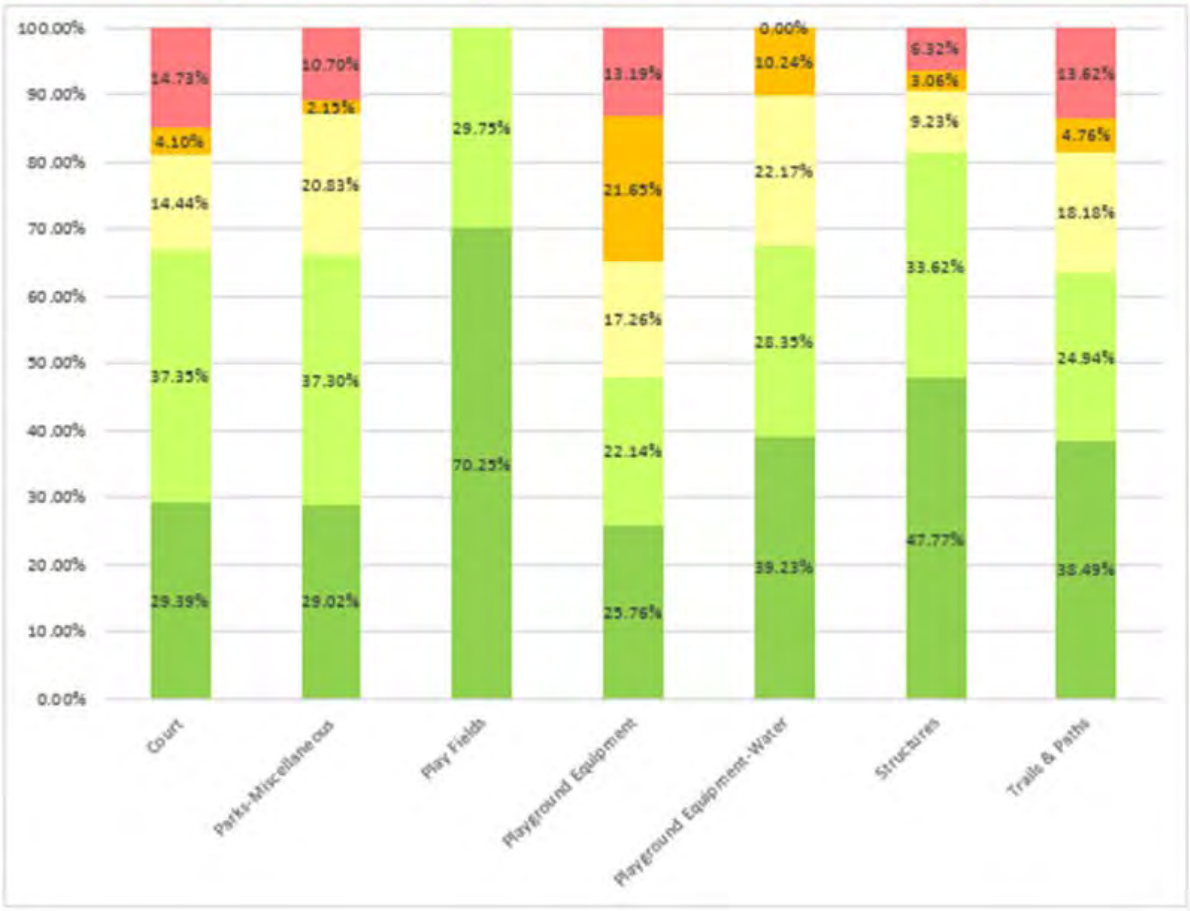


Parks

Parks: Overview	Replacement Value: **$15,234,633**

Approximately 70% of our Total Parks inventory are in the fair to excellent condition rating. We currently have 20% of our total parks inventory that are in critical condition. The play field assets do not require replacements at the end of the useful life, therefore, they continue to be used after they are fully amortized. Condition ratings below exclude items not to be replaced.(ie, grass fields and park lights)

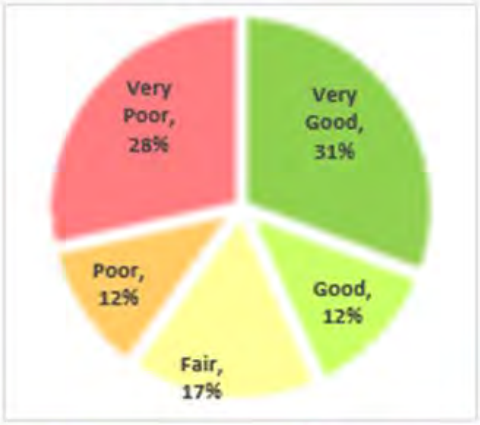
Very Good	Good	Fair	Poor	Very Poor
72 Assets	52 Assets	61 Assets	27 Assets	52 Assets
72.00 unit(s), m	52.00 unit(s), m	61.00 unit(s), m	27.00 unit(s), m	52.00 unit(s), m
$6,113,425.00	$3,627,009.00	$2,891,339.00	$1,268,791.00	$1,334,069.00



Roads & Roadside

Roads and Roadside: Overview	Replacement Value: **$404,594,753**

Approximately 60% of our Total Roads and Roadside inventory are in the fair to very good condition rating. We currently have 28% of our total Roads and Roadside inventory that are in very poor condition.

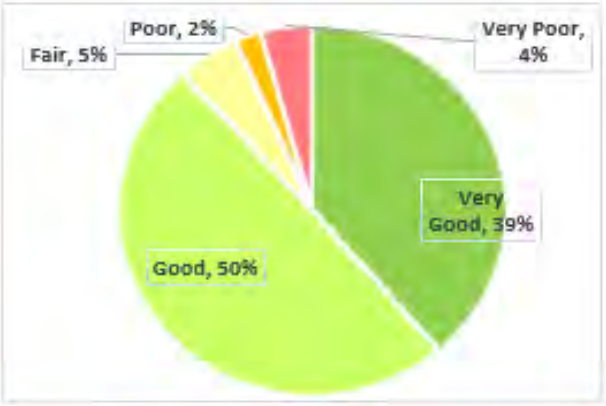


Very Good	Good	Fair	Poor	Very Poor
973 Assets	394 Assets	525 Assets	369 Assets	901 Assets
331,317.07 m. unit(s)	122,709.11 m. unit(s)	164,085.78 m	113,634.17 m. unit(s)	369,819.91 m. unit(s)
$150,503,328.98	$36,936,790.18	$44,110,249.24	$42,401,178.32	$130,643,206.93

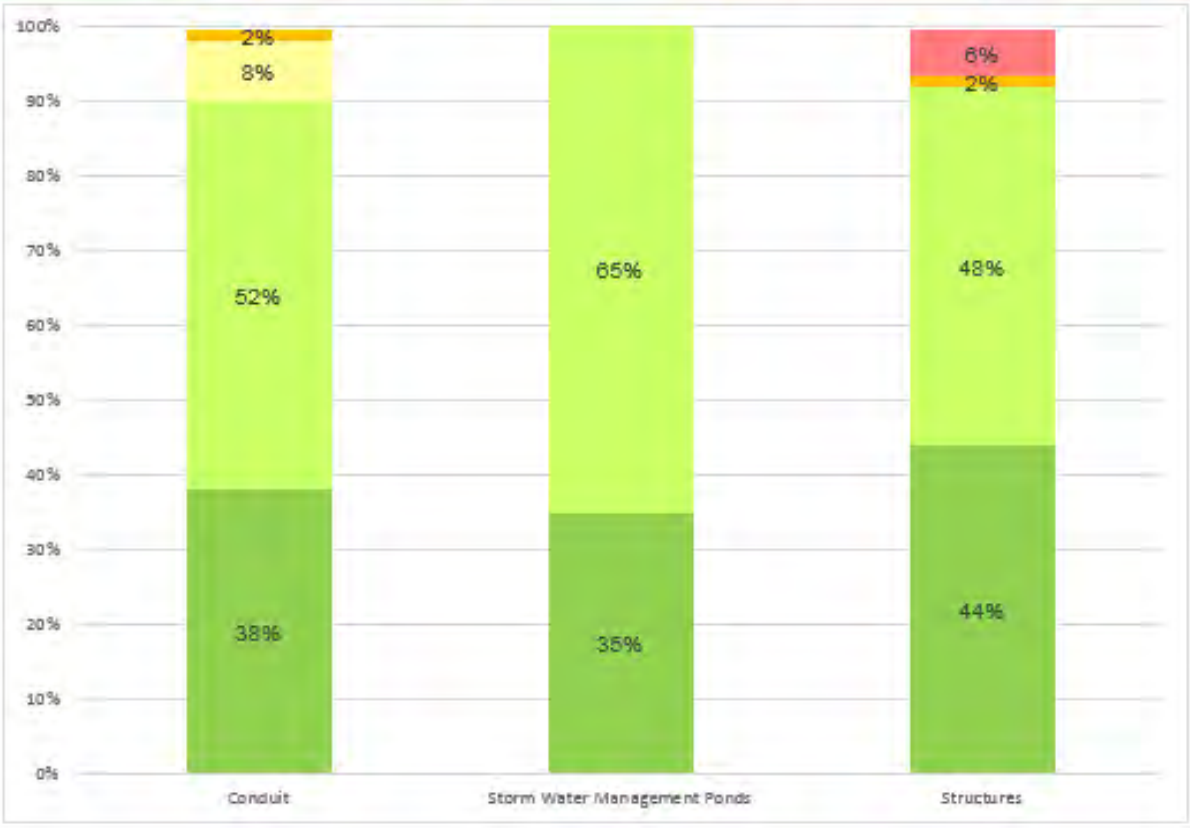
Storm Sewer

Storm Sewer: Overview	Replacement Value: **$119,965,932**

Storm sewers and ponds have an extremely long life which results in 94% of these assets condition ratings of fair to very good.



Very Good	Good	Fair	Poor	Very Poor
3070 Assets	3939 Assets	416 Assets	171 Assets	344 Assets
6,247,656.10 unit(s)	11,450,124.00 unit(s)	2,332,791.00 unit(s)	571,844.00 unit(s)	298,532.00 unit(s)
$46,818,494.00	$63,496,028.00	$7,647,774.00	$1,770,075.00	$1,555,205.00



4.0 Levels of Service

Desired levels of service (LOS) are indicators, comprising many factors, which establish defined quality thresholds at which municipal services should be provided to the community. They support the organization's strategic goals and are based on customer expectations, statutory requirements, standards and the financial capacity of the municipality to deliver those levels of service. Levels of service are a necessary component of the Asset Management Plan and will evolve over time.

Levels of service are used to provide measurements of the municipality's efficiency on specific infrastructure. On a corporate level, determining the benefits for having a service along with the associated costs will assist Council and staff to determine the feasibility of providing or making changes to the current level of service.

Considering key factors of providing a service is an important part of creating a desired level of service. Viewing various performance measures over a full fiscal period will determine the current level of service that is provided and will determine if the level of service is adequate or needs to be revised.

4.1 Key Factors that Impact Level of Service

When determining level of service, various factors must be considered and any combination of these factors will be used as they best apply to each asset category. This will provide a framework and starting point from which the Municipality can define levels of service for each asset category/class for future renditions of the AMP.

Key factors affecting level of service are outlined below:

- Strategic and Corporate Goals;
- Community Expectations;
- Legislative Requirements;
- Asset Performance;
- Technical/Operational requirements; and
- Funding Availability.

4.1.1 Strategic and Corporate Goals

Clarington's Strategic Plan provides the Municipality with the direction to which we intend to strive for in the future, how we plan to get to that benchmark, as well as assist in decisions for resource allocation, while ensuring strategic priorities are followed. The plan helps identify priorities and give guidance for current and future spending of municipal tax dollars and revenues. The level of importance that a community's vision is dependent on infrastructure, will ultimately affect the level of service provided or those levels that it aspires to deliver.

4.1.2 Community Expectations

Levels of service are directly related to public expectations. The public can provide an opinion in determining when items are required to be rehabilitated or replaced and how tax dollars are utilized. Due to the ever increasing cost of infrastructure, it is essential that the public be included in the decision making process of the service levels and educate them on the associated costs to provide that level of service. Public meetings were held for the Official Plan (OP) review, Clarington's Transportation Master Plan (CTMP) and the Indoor Recreation Facilities Strategy prepared by consultants Monteith Brown Planning Consultants with Tucker-Reid & Associates. The budget process is also an open process whereby service information is provided and Council receives feedback on desired levels of service. A public survey is planned to be undertaken to assist in priority setting for the 2018 budget.

4.1.3 Legislative Requirements

Infrastructure levels of service are directly influenced by many legislative and regulatory requirements. Within this AMP, Clarington's roads and bridges must adhere to the Minimum Maintenance Standards for municipal highways that keep levels of service above a specific standard and attracts liability if it declines below that level. Adhering to legislative requirements protect against exposure to lawsuits.

4.1.4 Asset Performance

The performance of an asset takes into consideration the current condition of the asset and its ability to meets its legislative requirements, as well as ensuring that an asset provides that service in a safe manner within its capacity requirements. The entire life cycle costs associated with an asset (design, maintenance, rehabilitation or replacement) are all critical factors that affect the level of service to which the Municipality of Clarington can provide.

4.1.5 Technical/Operational Requirements

A service level that relates to the quality, quantity and/or capacity, reliability, environmental implications, availability, safety and maintainability of the asset.

4.1.6 Funding Availability

The availability of finances will directly impact desired levels of service. In an idealistic scenario, the funds available would be able to achieve corporate goals, meet all legislative requirements, fund all required assets life cycle needs, as well as meet the needs of the community. Levels of service will be dictated by the availability of funds, the ability to increase funds or the community's willingness to pay.

4.2 Key Performance Indicators

Performance indicators or performance measures track current levels of services. They should be specific, measureable, achievable, relevant and time restricted. This information is necessary to assess whether or not the asset is performing at expected or desired level of service. Determining the benefits of having a service along with the associated costs will help Council and staff determine if providing the current level of service is practical or if it needs to be changed.

4.3 Asset Types considered in Levels of Service

- Bridges and Culverts
- Buildings
- Fleet
- Roads
- Parks
- Storm sewers and Storm water Management Ponds
- Sidewalks

4.4 Bridges & Culverts

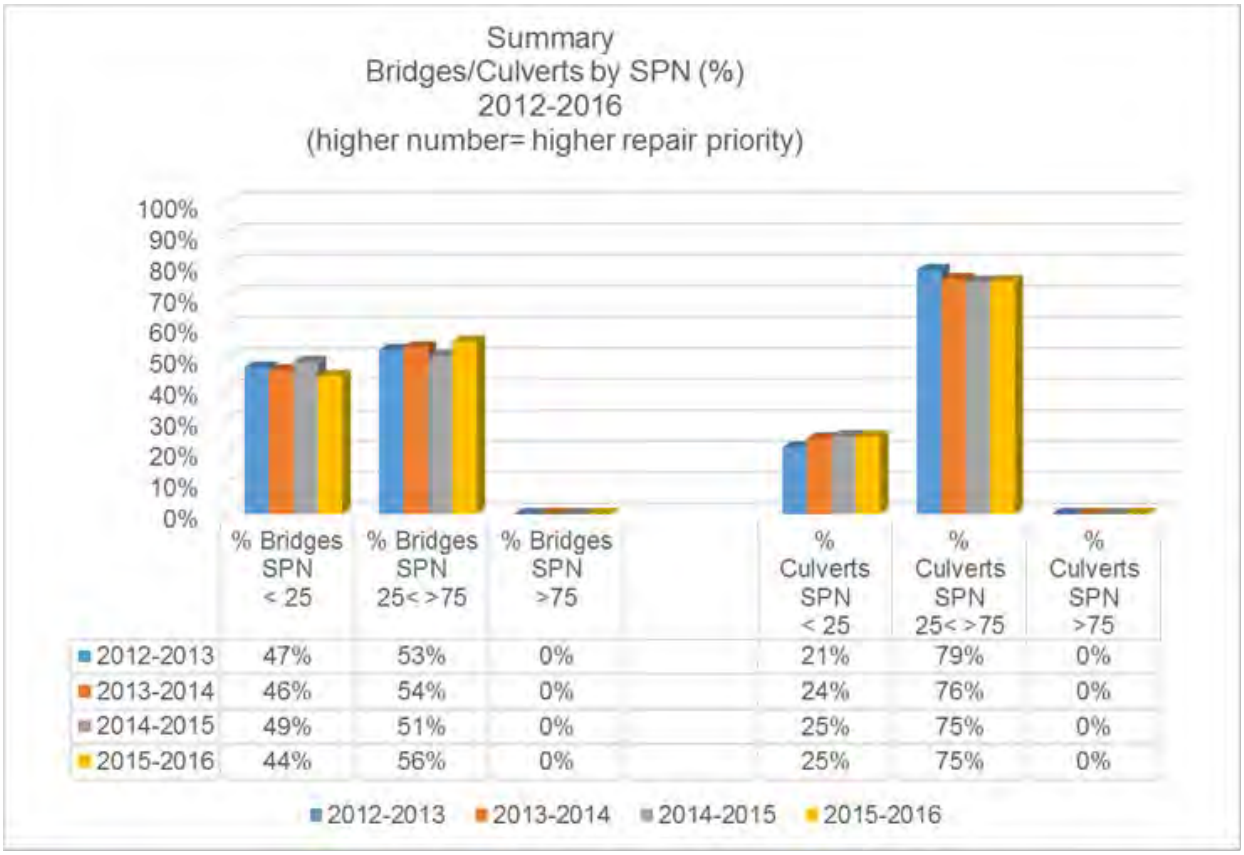
Each year, half of the structures are inspected. A Municipal Structure Inventory and Inspection report is produced by a consultant. This report describes the condition of each structure, maintenance needs, major rehabilitation needs, replacement needs and summarizes the overall condition and funding requirements. The inspections are completed in accordance with the MTO Municipal Bridge Appraisal Manual, Feb 1992, and the MTO Municipal Culvert Appraisal Manual, Aug 1993, and the Ontario Structure Inspection Manual 2000, Rev Apr 2008.

The Municipality of Clarington's Engineering Department creates a ten (10) year plan based on the data collected during the inspections, which is updated as part of the inspection reporting each year. The plan is based on two (2) main performance measures, the bridge condition index (BCI) and the structure priority number (SPN).

The BCI is calculated based on the weighted sum of the condition of various components of the structure and is a number between 0 and 100 with higher numbers corresponding with better condition. The SPN is calculated using the condition of the structure (the BCI) and other factors including traffic, value of the structure, cost of repairs, load posting limitations, performance deficiencies and detour length. The SPN is also a number between 0 and 100 with higher numbers corresponding with higher priority for repair/replacement. BCI and SPN are described in more detail in the Municipal Structure Inventory and Inspection report. Bridge condition scores are developed and are used to guide repairs, rehabilitation and replacement schedules.

The ten (10) year plan is developed through an iterative process. The list of structures is sorted by highest SPN. The list is reviewed to remove any structures that are under another agency's jurisdiction, such as the railways or the Province. Structures are also removed that will be addressed through another process such as reconstruction for development or the Highway 407 extension. The remaining structures are selected to fit within the projected budget in the forecast including structures that need to be replaced, as well as repair work to

extend the life of the structures. Each structure inspection sheet is briefly reviewed to determine if the structure should be moved up in the program to make repairs that will extend the life of the structure, or moved down the list because the repair costs are so high it would be more cost effective to wait until the structure needs to be replaced. Our road improvement program is also reviewed to coordinate structure repairs with road repairs. This chart shows the percentage of structures with a Structure Priority Number (SPN) under 25, between 25-74 and greater than 75.



	% Bridges SPN < 25	% Bridges SPN 25< >75	% Bridges SPN >75	% Culverts SPN < 25	% Culverts SPN 25< >75	% Culverts SPN >75
2012-2013	47%	53%	0%	21%	79%	0%
2013-2014	46%	54%	0%	24%	76%	0%
2014-2015	49%	51%	0%	25%	75%	0%
2015-2016	44%	56%	0%	25%	75%	0%

Source: Municipal Structure Inventory and Inspection reports

This information will be tracked over time in hopes of reducing the percentages of structures with a higher SPN value.

The municipality continues to maintain a respectable condition rating for bridges and culverts. Of the 252 bridges and culverts recorded in CityWide, 78% of them are in good to very good condition based on the Bridge Condition Index (BCI).

4.4.1 Technical/Operational Requirement

The primary service level is to maintain the condition of the structure and the required load limit for its use.

BRIDGES	
Current Level of Service	**Target Level of Service**
Maintain adequate condition and load limits using SPN as an indicator.	Maintain adequate condition and load limits using SPN as an indicator.

4.4.2 Legislated Requirement

BRIDGES & CULVERTS	
Current Level of Service	**Target Level of Service**
Meet Provincial legislation by having all bridges and culverts over 3.0 m span to be inspected under the direction of a Professional Engineer every 2 years.	Meet Provincial legislation by having all bridges and culverts over 3.0 m span to be inspected under the direction of a Professional Engineer every 2 years.
Meet minimum standards as defined in Ontario Regulation 104/97.	Meet minimum standards as defined in Ontario Regulation 104/97.

4.5 Buildings

The Municipality of Clarington owns and operates 44 buildings of various sizes, for a multitude of uses and complexities. The 2016 replacement value of these buildings is $76,976,177.

BUILDINGS			
Assets	**Inventory**	**Historic Cost**	**Replacement Value as of 12/31/2016**
Administrative Buildings	1	$14,912,018	$9,251,241
Maintenance Buildings	1	$465,829	$1,102,701
Old Newcastle Fire Hall	1	$206,312	N/A
Cemetery Building	1	$81,887	$100,333
Tourism Information Office	1	$123,000	$76,302
Animal Control	1	$430,509	$303,660
Fire Stations	5	$8,901,874	$4,616,048
Arenas	5	$30,031,873	$29,792,714
Pools	3	$27,793,568	$16,885,849
Indoor Soccer Facility	1	$3,362,681	$2,070,299
Community Centres/Halls	13	$4,150,768	$5,427,744
Museums & Art Centres	4	$1,127,658	$1,561,623
Libraries	4	$8,779,600	$3,365,331
Roads Maintenance Depots	3	$1,964,188	$2,422,332
Total	44	$102,331,765	$76,976,177
Source (Citywide)			

4.5.1 Community Halls

Currently there are 13 community halls and centres in Clarington available to the public. Below is a listing of all the community halls and centres in Clarington:

- Baseline Community Centre
- Brownsdale Community Centre
- Clarington Beech Centre
- 132 Church Street
- Hampton Community Hall
- Haydon Community Hall

- Kendal Community Centre
- Memorial Park Clubhouse
- Newcastle Community Hall
- Newtonville Community Hall
- Orono Town Hall
- Solina Hall
- Tyrone Community Hall

4.5.2 Technical/Operations Requirements

Providing support, maintenance and resources to Board Operated and Non-Municipal Agencies, depending on available resources as per the Operations Department Policy ADM-P2.

COMMUNITY HALL BOARDS	
Current Level of Service	**Target Level of Service**
Providing support, maintenance and resources to Board Operated and Non-Municipal Agencies, depending on available resources.	Provide support, maintenance and resources to Board Operated and Non-Municipal Agencies, depending on available resources.

4.5.3 Financial Performance

This scenario is used to analyze and illustrates the tax levy support for all building property maintenance (excluding recreation facilities) on an annual basis. The below table shows the tax levy support by population and household.

BUILDING SERVICES- PROPERTY MAINTENANCE (EXCL. REC FACILITIES)				
Performance Measure	**2015**	**2014**	**2013**	**2012**
Tax Levy Support for all Buildings Property Maintenance (excl. Rec Fac)				
Net Budget	$1,894,757	$1,634,929	$1,722,737	$1,576,493
Population	91,726	89,931	89,184	88,661
Tax Levy Support per population	$0.05	$0.06	$0.05	$0.06
# Households	32,857	32,397	31,824	31,355
Tax Levy Support per Household	$0.02	$0.02	$0.02	$0.02
Source: Operating Budget, FIR				

4.5.4 Recreation Facilities

Clarington's community facilities located both indoors and outdoors are functional, clean and safe spaces. Facility features include swimming pools, ice pads, meeting rooms, fitness centre, gymnasiums and squash courts. Regular facility infrastructure audits will inform the AMP with regards to the condition of facility assets and the funding requirements to maintain, rehabilitate, replace or expand assets in order to meet defined levels of service.

4.5.5 Financial Performance

Key performance indicators provide a breakdown of the maintenance or day-to-day costs per person for recreation facilities. Monitoring the operating costs of the facilities allows staff to monitor the trends annually and recognize any significant cost shifts. The chart below shows the operating costs per person are fairly constant.

RECREATION FACILITIES					
Performance Measure	**2015**	**2014**	**2013**	**2012**	**2011**
Operating costs for recreation facilities per person	$115.77	$120.70	$110.42	$118.29	$116.23
Total costs for recreation facilities per person	$142.33	$146.06	$139.65	$151.45	$149.45
Source: FIR (MPMP)					

4.5.6 Community Expectations

An appropriate level of service measure in this category is the number of service disruptions recreation facilities have during normal operating hours. The table below outlines the types and number of service disruptions in 2015 and 2016 posted to Clarington's website.

POSTED SERVICE DISRUPTIONS: RECREATION FACILITIES			
	2016	**2015**	**Target**
Fitness, swimming, skating program cancellations	8	7	0
Maintenance to swimming pool, sauna, tot pool, whirlpool	6	13	0
Washroom or changeroom out of service for maintenance/repair	3	4	0
Entrance maintenance, elevator maintenance, concession stand maintenance	5	1	0
Payment outage	4	9	0
Power outage	2	1	0
Total Service Disruption Posted on Clarington's website	28	35	0

The above data includes both planned and unplanned service disruptions. Due to the nature of facility operations, it is necessary at times to complete maintenance repairs and upgrades during normal operating hours. All efforts are made to reduce the number and duration of service disruptions each year. Unplanned service disruptions are generally not controllable, therefore all efforts are made to minimize the duration of these disruptions to lessen the impact to our customers.

4.5.7 Strategic and Corporate Goals

An Indoor Facilities Development Strategy was prepared by consultants Monteith Brown Planning Consultants with Tucker-Reid & Associates This Facilities Strategy has been prepared in response to increasing population growth and socio-economic diversification within the Municipality of Clarington, which in turn necessitates this assessment of the current indoor recreation facility inventory and associated demands being placed on facility space. As part of the community engagement phase of the study, a number of Public Information Centres were held throughout the Municipality.

Establishing an understanding of existing recreation facility trends is essential as they may impact local indoor recreation facility needs. Facility benchmarking has been undertaken to evaluate how the Municipality's service levels compare with other communities in southern Durham Region including Ajax, Oshawa, Pickering and Whitby.

INDOOR RECREATION FACILITIES						
Municipality	**Clarington**	**Average**	**Oshawa**	**Whitby**	**Ajax**	**Pickering**
Population	95,300	128,000	160,900	133,400	121,900	95,800
No. of Indoor Aquatic Centres	3	3	4	2	3	2
No. Ice Pads	7	7	8	10	5	5
No. Indoor Turf Facilities	1	1	1	1	0	1
No. Indoor Turf Sub-Fields (1)	2	3	4	2	0	4
No. Gymnasiums (2)	1.25	2	2	1	2	1
No. Fitness Centres	1	2	3	2	2	1
No. Multi-Purpose Spaces (3)	21	20	28	19	15	17
Results from: Indoors Facitilities Development Strategy prepared by Monteith Brown Planning Consultants with Tucker-Reid & Associates						
(1) Sub-fields' reflects small field equivalents that generally equate to one quarter of a full field. Benchmarked supply excludes private sector facilities.						
(2) South Courtice Arena gymnasium is undersized and considered as 0.25 gyms						

Clarington's existing supply of indoor aquatics facilities, ice pads, indoor turf facilities and gymnasiums all achieve a strong level of service in terms of geography and on a population basis compared to neighbouring municipalities. Service levels are listed below:

INDOOR RECREATION FACILITIES						
Municipality	**Clarington Service Level**	**Average Service Level**	**Oshawa Service Level**	**Whitby Service Level**	**Ajax Service Level**	**Pickering Service Level**
Service Level= Population/Number of Facilities						
Indoor Aquatic Centres	31,767	46,545	40,225	66,700	40,633	47,900
Ice Pads	13,614	18,286	20,113	13,340	24,380	19,160
Indoor Turf Facilities	95,300	170,667	160,900	133,400	-	95,800
Indoor Turf Sub-Fields (1)	47,650	51,200	40,225	66,700	-	23,950
Gymnasiums (2)	76,240	85,333	80,450	133,400	60,950	95,800
Fitness Centres	95,300	64,000	53,633	66,700	60,950	95,800
Results from: Indoors Facitilities Development Strategy prepared by Monteith Brown Planning Consultants with Tucker-Reid & Associates						
(1) Sub-fields' reflects small field equivalents that generally equate to one quarter of a full field. Benchmarked supply excludes private sector facilities.						
(2) South Courtice Arena gymnasium is undersized and considered as 0.25 gyms						

4.6 Fleet

The Municipality of Clarington owns and operates 200 vehicles for a multitude of uses and complexities. The 2016 replacement value of Clarington's fleet is $25,523,025.

FLEET		
Asset	**Inventory**	**Replacement Value as of 12/31/2016**
Aerial Trucks	2	$2,072,021
Attachments	22	$313,599
Cars and Vans	18	$578,691
Heavy Duty Trucks	39	$8,201,651
Ice Resurfacers	6	$539,972
Light Duty Trucks	29	$1,075,582
Loaders/Graders/Chippers	13	$2,631,861
Medium Duty Trucks	15	$911,466
Pumpers	8	$6,190,244
Tankers	5	$1,315,320
Tractors/Mowers/ATV's	17	$929,372
Trailers	20	$551,410
Unlicensed Fleet Equipment	6	$211,836
Source: Citywide	**200**	**$25,523,025**

Clarington annually includes funds in the budget for maintenance and replacement of the fleet. When additional vehicles are needed due to growth in the community, Development Charges should be used to fund the purchase.

4.6.1 Technical/Operational Requirements

Currently 39% of Clarington's fleet is older than the recommended threshold/useful life. (Threshold= how many years should we own an asset before replacing). An acceptable threshold for % Fleet replacement overdue should be established in future level of service discussions.

FLEET				
Asset	**# of Vehicles**	**Threshold (Vehicle Replace Schedule)**	**No. of Fleet over the Threshold**	**% of Fleet Over Threshold**
Aerial Trucks	2	18 years	0	0
Cars	7	7 years	4	57%
Heavy Duty Trucks	32	10-12 years	13	41%
Ice Resurfacers	5	5 years	3	60%
Light Duty Trucks	30	7 years	16	53%
Medium Duty Trucks	12	7 years	6	50%
Pumpers	8	10-15 years	4	50%
Tankers	5	15 years	2	40%
Trailers	22	15 years	3	14%
Lawn Mowers	8	10 years	0	0%
Tractors	8	10-12 Years	6	75%
Heavy Equipment	12	12 Years	4	33%
Vans	9	7 Years	2	22%
Average % of Fleet over Threshold				**39%**
Source: Operations Department				

4.6.2 Legislative/Regulatory Compliance

FLEET		
Performance Measures	**Service Objective**	**Meeting current levels of service Yes/No**
Annual Vehicle Ministry Safety Inspections	Conduct annual Ministry of Transport vehicle safety inspections as per MTO Safety Standards for all Municipal vehicles requiring PMCVI (Periodic Motor Commercial Vehicle Inspection).	Yes
Annual Vehicle Municipal Safety Inspections	Conduct annual Municipal safety inspections for all non commercial vehicles and equipment.	Yes
Scheduled Preventative Maintenance Inspections	Develop and implement scheduled preventative maintenance inspections as per vehicle and equipment manufacturer's best practices for all Municipal vehicles and/or equipment.	Yes
Annual Vehicle Emission Testing	To co-ordinate, administer, annual emission testing as required by the Ministry of Transport.	Yes
Licensing, CVOR, and Insurance	Annual renewal of all vehicle licence, CVOR and insurance coverage's. Provide and distribute all required equipment and vehicle documentation.	Yes
Annual Lifting and Hoisting Inspection for Equipment	Develop and oversee, outside agency conducting annual required Ministry of Labour lifting and hoisting equipment inspections.	Yes

4.6.3 Asset Performance

To ensure pedestrian and commuter safety during winter months, the Municipality of Clarington is responsible for plowing municipal roads. Snow plows require mandatory inspections, repairs and maintenance to operate efficiently, effectively and safely.

Statistical information was extracted from the WorkTech software in regards to the number of work orders issued on an annual basis for the snow plows. Approximately 22-27 snow plows required work orders in past five (5) years. On average, there have been approximately 11 work orders.

OPERATIONS DEPARTMENT WORK ORDER HISTORY					
	2015	2014	2013	2012	2011
No. of Work Orders for Snow Plow (a)	353	381	248	178	211
No. of Snow Plows with Work Orders (b)	27	27	25	25	22
Average No. of Work Orders per Snow Plow (c=a/b)	13	14	10	7	10
Source: Operations Department					

4.6.4 Emergency Services Fleet

Municipal vehicle replacements generally follow guidelines in Report WD 31-93. This report suggests that the Clarington Emergency and Fire Services Vehicle Replacement Schedule are performed in accordance with the National Fire Protection Association, Underwriters Laboratory, Ontario Fire Marshal and the Insurer's Advisory Organizations recommendations.

In accordance with Operation's mechanics replacement schedule, the above agencies suggest:

- Refurbishes on pumpers, tankers and aerials be done every ten (10) years (paint, mechanical/repairs, etc.)
- pumper replacement between 10-15 years
- tanker replacement every 15 years
- aerial replacement every 18 years

4.6.5 Asset Performance

The condition rating of our fleet is based solely on age and although this is a good place to start, it's good to keep in mind that Clarington's Operations Department in particular for EMS Fleet undergoes a continual process of repair and maintenance. So although the table below shows that 50% of our Pumpers and 40% of tankers are being used past their useful lives (threshold), EMS Fleet is given top priority for repair work so that it can always be "fire ready".

EMS FLEET				
Asset	**# of Vehicles**	**Threshold (Vehicle Replace Schedule)**	**No. of Fleet over the Threshold**	**% of Fleet Over Threshold**
Aerial Trucks	2	18 years	0	0
Pumpers	8	10-15 years	4	50%
Tankers	5	15 years	2	40%
Source: Operations Department				

4.7 Roads

The main service that is provided by roads is access to residential, commercial, and industrial properties and other community amenities for people, goods and services.

All roads in Clarington are inspected every two (2) years in accordance with the MTO Inventory Manual for Municipal Roads, Feb 1991 and each road segment is given a score for various parameters. This data is used to calculate a Clarington specific pavement condition index (PCI), which combines the ratings for the pavement surface and the road base to give a numerical description of the condition of the road.

4.7.1 Strategic/Corporate Goal

Our goal here is to enable safe, efficient traffic flow and active transportation. To achieve this corporate goal, a Transportation Master Plan and Official Plan (OP) review were undertaken. Both initiatives were completed and approved by Council in 2016.

Clarington's Transportation Master Plan (CTMP) is a strategic document that will guide the renewal and improvement of Clarington's transportation network over the next 20 years and beyond. The purpose of the plan is to create a coordinated, integrated, realistic and

accessible multi modal transportation system. Our vision is to provide healthy, safe and convenient travel choices so that people and goods can move efficiently around Clarington.

Clarington Council adopted the recommended Official Plan Amendment 107 with some minor modifications. The Planning Act of Ontario requires that the Municipality review its Official Plan every five (5) years to ensure that it conforms to, and does not conflict with, Provincial plans and policies.

4.7.2 Legislated Requirements

Various minimum road standards are provided by upper level governments. The municipality must follow these standards in regards to road maintenance, road conditions and winter condition maintenance to provide some liability protection.

ROADS	
Current Level of Service	**Target Level of Service**
Meet minimum maintenance standards as established by Ontario Regulation 239/02 made under the Municipal Act, 2001	Meet minimum maintenance standards as established by Ontario Regulation 239/02 made under the Municipal Act, 2001

4.7.3 Financial Performance Metric

Annual measures the Municipality tracks for roads are:

ROADS					
Performance Measure	**2015**	**2014**	**2013**	**2012**	**2011**
Operating costs for paved (hard top) roads per lane KM	$781.99	$945.46	$1,160.26	$874.16	$704.70
Total costs for paved (hard top) roads per lane KM	$4,281.59	$4,275.62	$4,464.38	$3,869.54	$3,716.14
% of paved lane KM where the condition is rated as good to very good	58%	51%	57%	57%	57%
Operating costs for unpaved (loose top) roads per lane KM	$1,251.90	$3,556.14	$3,877.14	$2,066.10	$2,348.32
Total costs for unpaved (loose top) roads per lane KM	$16,452.30	$18,077.62	$17,196.52	$16,600.29	$15,980.19
Operating costs for winter maintenance of roadways per lane KM maintained in winter	$1,561.23	$1,994.68	$1,606.62	$980.28	$1,423.78
Total costs for winter maintenance of roadways per lane KM maintained in winter	$1,702.40	$2,145.50	$1,845.42	$1,217.71	$1,652.93
Source: FIR (MPMP)					

The above indicators provide a breakdown to the maintenance or day-to-day costs to allow an asset to continue to perform at the current level and attempt to prevent premature aging. In the case of the Municipality wanting to increase the level of service of one of these assets, the measures above would have to increase. The availability or reallocation of resources (mainly finances) would determine if the level of service increase of an asset is achievable.

4.7.4 Community Input

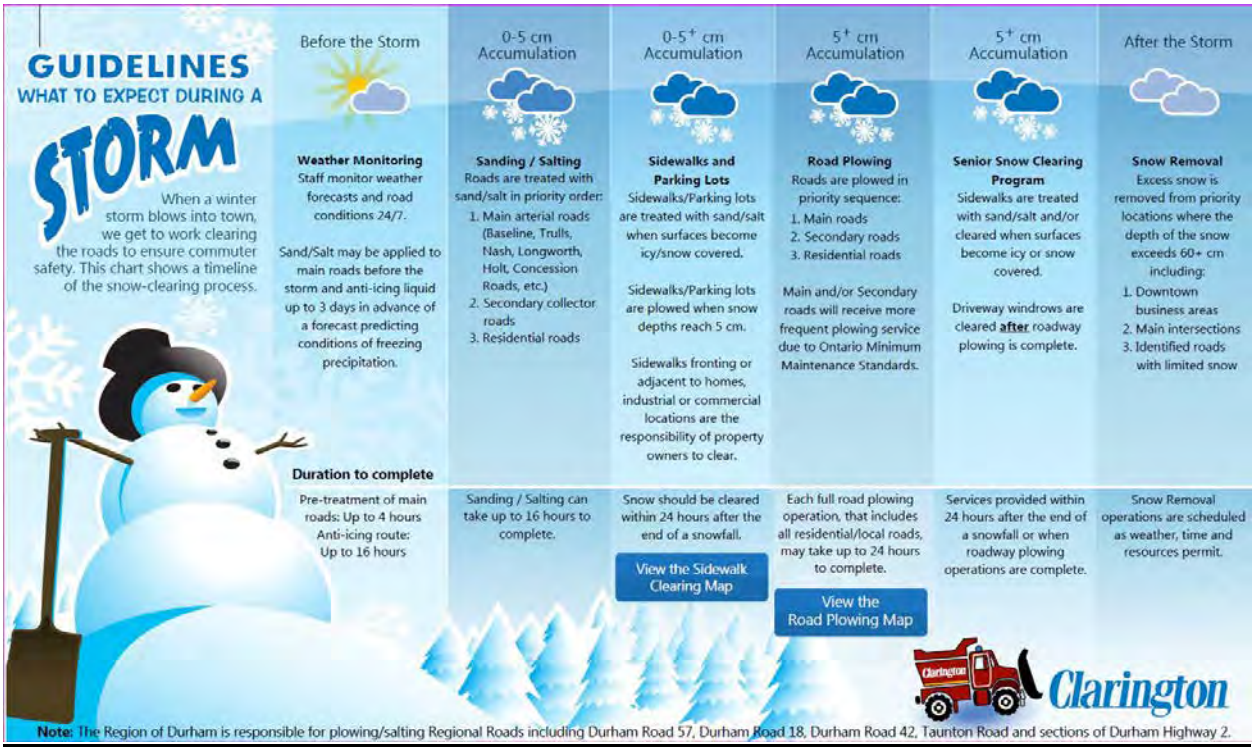
An extensive public consultation program was carried out as part of the CTMP to provide information to stakeholders on all components of the study and facilitate a full spectrum of community and agency input. Two (2) Public Information Centres (PICs) were held to engage and obtain input from the public, review agencies and stakeholders. The Transportation Master Plan was completed in conjunction with the Clarington Official Plan Review.

On November 1, 2016, Clarington Council adopted the recommended Official Plan Amendment 107 with some minor modifications. The Planning Act of Ontario requires that the Municipality review its Official Plan every five (5) years to ensure that it conforms to, and does not conflict with, Provincial plans and policies. Over 100 submissions were received from the public.

4.7.5 Winter Road Maintenance

The Municipality of Clarington is responsible for road maintenance during winter months to ensure the safety and mobility of all of our residents and environmental responsibility.

Guidelines used when a winter storm hits Clarington.



4.7.6 Legislated Requirements

Winter Maintenance Performance Objectives (ADM-W2) is to provide an acceptable level of service across the municipality which will ensure the transportation network remains functional in accordance with the Ontario Minimum Maintenance Standards.

During winter storms provincial legislation requires the Municipality to provide winter maintenance to the highest class of roadway first, meaning roadways that carry the greatest volumes of traffic and operate at faster speeds must be cleared more frequently to maintain safety levels. Local residential streets are generally left until the high priority roads are taken care of.

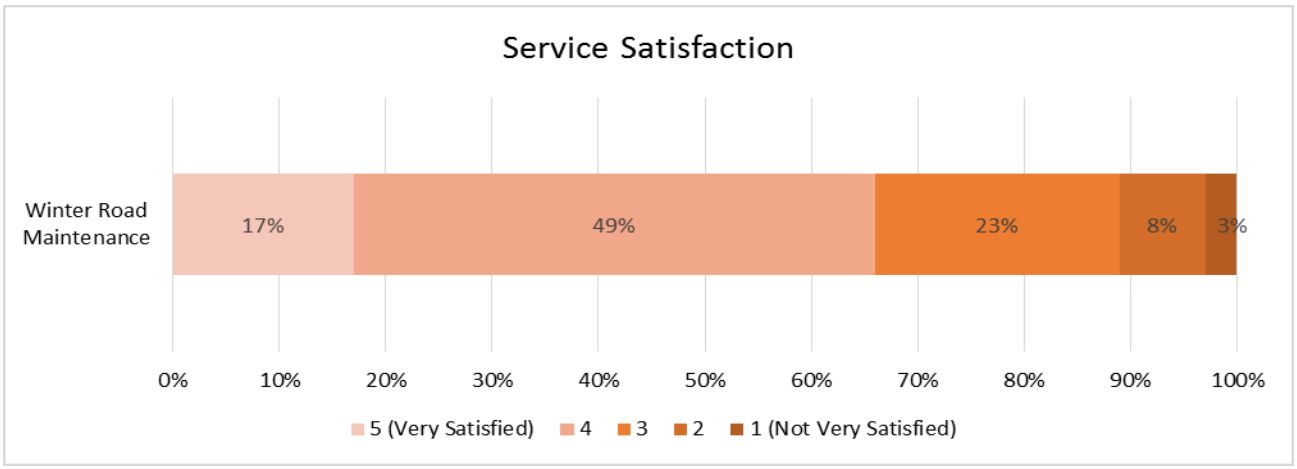
Long duration and/or back-to-back storms are especially problematic for the Municipality as legislation enforced by the Ministry of Transportation prevents winter maintenance staff from driving more than 13 hours per day to a maximum of 70 hours over a seven (7) day period. These timelines must be met by the Municipality.

During a seven (7) day period, these hours can accumulate quickly, depleting our available human resources. Those who have reached their maximum hours in accordance with the Highway Traffic Act (HTA) must be sent home for a 24 hour resting period.

Contractors are used to clear sidewalks, parking lots and provide seniors snow removal service.

4.7.7 Community Expectations

A citizen satisfaction survey was conducted by GFK. Respondents were asked to rate their satisfaction with various services and aspects of the Municipality of Clarington. In regards to winter road maintenance the results were:



As with any survey there are many limitations with the survey results that are not repeated here.

4.8 Parks

Efficiency measures of parks per person tracked by the municipality are:

PARKS					
Performance Measure	**2015**	**2014**	**2013**	**2012**	**2011**
Operating costs for parks per person	$30.86	$30.83	$27.00	$28.96	$23.79
Total costs for parks per person	$39.52	$38.85	$35.31	$36.97	$31.40
Source: FIR (MPMP)					

4.8.1 Community Expectations

A citizen satisfaction survey was conducted by GFK. Respondents were asked to rate their satisfaction with various services and aspects of the Municipality of Clarington. In regards to trails and paths the results were:

The results demonstrate a general sense of how the community rates our trails and paths. Again, please be advised that limitations around interpretation of survey results are not repeated here.

4.9 Storm Sewers

Storm sewers collect rain and run-off from melting snow to prevent flooding and redirect the water to nearby storm water management ponds, creeks or lakes.

The Storm Sewer Network consists of storm sewer mains, manholes, ponds and catch basins:

STORM SEWERS					
Performance Measure	**2015**	**2014**	**2013**	**2012**	**2011**
Storm Sewers- Urban					
Net Costs per Capita Excl Amort for Urban Storm Sewers	$6.00	$8.00	$7.00	$6.00	$5.00
Net Costs per Capita Incl Amort for Urban Storm Sewers	$23.00	$24.00	$18.00	$17.00	$16.00
Net Costs per $100,000 CVA Excl Amort for Urban Storm Sewers	$5.00	$7.00	$6.00	$5.00	$4.00
Net Costs per $100,000 CVA Incl Amort for Urban Storm Sewers	$19.00	$21.00	$16.00	$15.00	$14.00
Storm Sewers- Rural					
Net Costs per Capita Excl Amort for Rural Storm Sewers	$11.00	$10.00	$10.00	$10.00	$10.00
Net Costs per Capita Incl Amort for Rural Storm Sewers	$11.00	$10.00	$10.00	$11.00	$10.00
Net Costs per $100,000 CVA Excl Amort for Rural Storm Sewers	$10.00	$9.00	$8.00	$9.00	$9.00
Net Costs per $100,000 CVA Incl Amort for Rural Storm Sewers	$10.00	$9.00	$9.00	$10.00	$9.00
Source: BMA Study					

4.9.1 Technical/Operational Requirements

STORM SEWERS		
Performance Measures	**Service Objective**	**Meeting current levels of service Yes/No**
Storm Sewer Inspections	Inspect all storm sewers over a five year period.	No
Storm Sewer Repair	Provide maintenance to extend the life of storm sewer and to ensure water flow.	No

4.9.2 Storm Water Management Ponds

Most storm water management ponds in Clarington are designed and constructed by land developers, as new subdivisions and other site development occurs.

There are several provincial and federal acts, statutes and regulations that impact maintenance, operations and monitoring of Storm Water Management facilities.

- Ministry of Environment;
- Ontario Water Resources Act- Approval to Operate;
- Environmental Protection Act;

- Conservation Authority Act;
- Fisheries Act; and
- Clean Water Act.

Storm water management planning and design in Ontario is guided by the Ministry of Environment's (MOE) *Storm Water Management Planning and Design Manual* (MOE, 2003). This manual provides operation, maintenance and monitoring procedures.

In 2004, the Municipality developed design guidelines for SWMFs generally based on MOE's Storm Water Management Planning and Design Manuals. The Municipality of Clarington identifies that SWM is to conform to MOE's storm water management practices, requirements of local Conservation Authorities (Ganaraska Region Conservation Authority (GRCA) and Lake Ontario Conservation Authority (CLOCA) whose jurisdictions are within the Municipality of Clarington and local master drainage plans.

Clarington currently owns and maintains 25 Storm Water Management Ponds. The main types are dry ponds, wet ponds and wetlands.

Storm Water Management Ponds		
Performance Measures	**Service Objective**	**Meeting current levels of service**
Storm Water Management Ponds	Inspect all ponds on an annual basis.	No

Currently the Municipality of Clarington is not meeting the established levels of service as per the table above. It is a desired level of service for the future to meet these requirements based on financial availability. However, the state of the storm water management ponds are in good to very good condition. The below grid was extracted from the CityWide software. This shows that 11 of the 25 SWM are very good and 14 SWM are in good condition.

Very Good	Good	Fair	Poor	Very Poor
11 Assets	14 Assets	0 Assets	0 Assets	0 Assets
11 unit(s)	14 unit(s)	-	-	-
$3,922,536	$7,382,507	$0	$0	$0

During the 2017 budget process, Council has approved tax levy funding to maximize grant eligibility from upper levels of government to address storm water ponds service levels. This will enable further focus here with base funding now built into the tax base. This may also allow focus in future years on storm sewer work.

4.10 Sidewalks

To measure the Levels of Service for Sidewalks legislated requirements, asset performance requirements and community expectations have been considered.

4.10.1 Legislated Requirements

Provincial legislation requires that the minimum standard for the frequency of inspecting sidewalks to check for surface discontinuity is once per year. *("Surface discontinuity" means a vertical discontinuity creating a step formation at joints or cracks in the surface of the sidewalk.)*

SIDEWALKS		
Performance Measures	**Service Objective**	**Meeting current levels of service Yes/No**
Annual Sidewalk Inspections	Meet minimum maintenance standards as established by Ontario Regulation 239/02; O. Reg. 23/10, s. 10; O. Reg. 47/13, s. 16 (1)	Yes

Each year, a summer student is hired to walk every piece of sidewalk within Clarington. As they walk the sidewalks they record on a GPS every hazard on every sidewalk and spray markings to alerting users of the discontinuity. This information is then downloaded to maps and assigned what treatment the hazard needs to get fixed. The information is then sent to a contractor who is hired to go around and treat all the hazards that have been reported. This is impacted by budget limitations.

4.10.2 Asset Performance

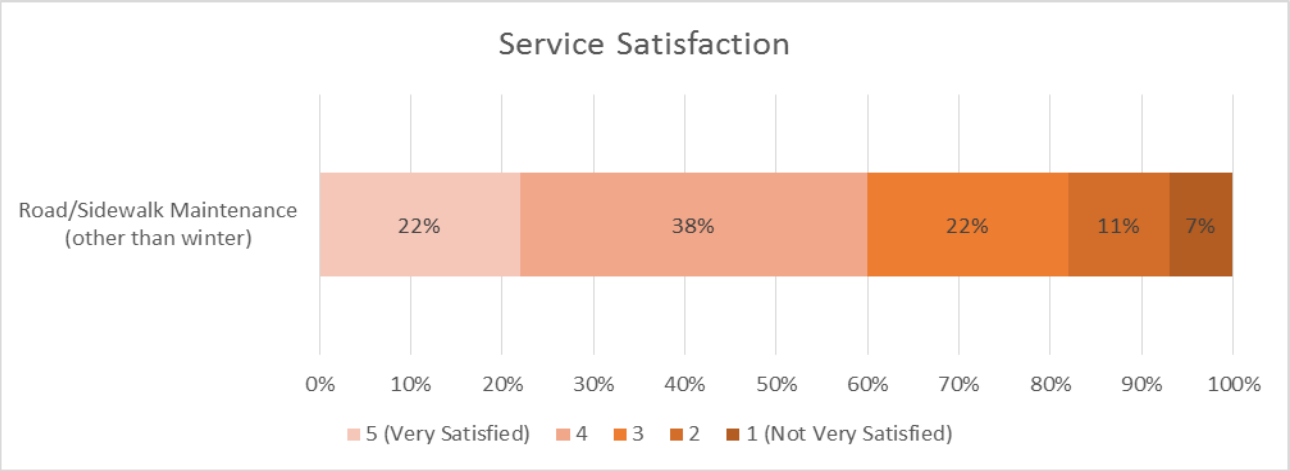
The performance of an asset takes into consideration the current condition of the asset and its ability to provide that service in a safe manner within its requirements. The below table illustrates how many trips and slips claims that have been submitted to the Durham Municipal Insurance Pool (DMIP) for the years 2011 to 2015 for municipally owned sidewalks.

No. of Trips and Slips Insurance Claims - Annually					
	2015	**2014**	**2013**	**2012**	**2011**
Total Claims Received	4	8	3	5	7
Source: Insurance Pool					

Clarington's desired level of service is to have "Zero" slips and trips claims. It is important to keep sidewalks safe and clear to minimize the risk of injury and liability. Clarington is currently meeting its sidewalk winter maintenance level of service.

4.10.3 Community Expectations

A citizen satisfaction survey was conducted by GFK. Respondents were asked to rate their satisfaction with various services and aspects of the Municipality of Clarington. In regards to sidewalks the results were:



The results demonstrate a general sense of how the community rates our road/sidewalk maintenance. Again, survey limitations are not repeated here.

4.11 External Trends

Issues that may affect expected levels of service or the Municipality's ability to meet them are:

Challenges:

- Expected/Desired Level of Service vs. Actual Level of Service for given asset classes
- Measure of actual level of service provision for given asset class
- Communities' expected level of service not matching optimum/minimum whole of life cycle costing of assets
- Visual perception of service level vs. underlying long term of asset performance
- Emergency situations
- New accessibility standards
- Growth
- Climate change impacts
- Tax levy, Federal and Provincial Government funding availability
- Taxpayer expectations/demands on service levels

There is an ever increasing expectation for municipalities to make informed decisions about the services they provide to their citizens. In analyzing level of services within the Municipality; Council, senior management and other decision makers will have the information needed to monitor, review and improve services to its citizens. Although many informal service levels currently exist within the Municipality of Clarington, further work is required to fully develop, measure and verify the LOS measures.

A community's infrastructure provides the foundation for its economic development and a well maintained infrastructure is essential for the delivery of critical core services for the citizens of the Municipality of Clarington. The goal is to manage these assets at their lowest overall life cycle cost which will allow the Municipality of Clarington to enhance the existing financial reporting and planning efforts into a longer term and formal Financial Strategy.

5.0 Asset Management Strategy

5.1 Asset Management Objective

The objective of our Asset Management Strategy is to outline and establish a set of planned actions, based on best practices that will enable our assets to provide an agreed upon and sustainable level of service to the taxpayers of the Municipality of Clarington, while managing risk at the lowest life cycle cost.

As this Asset Management Strategy is further developed the goal will be to consider a broad range of asset and non-infrastructure solutions and to develop an implementation process that can be applied to the identification of needs including renewal, enhanced levels of service, growth, legislative and efficiency related projects, along with the prioritization of the lowest whole life cycle cost intervention options, whether funded from operational or capital funds. This will assist in the production of a robust and defensible 20 year plan, including growth projections, to ensure the best overall health and performance of the municipality's infrastructure. The first ten (10) years provide the best information to base decisions on.

This section includes an overview of our approach to managing assets including condition assessment techniques and the identification of the optimal life cycle interventions required based on the lowest whole of life cost. Prioritization techniques, including risk, are also detailed as an approach to determining which priority projects should move forward into the budget first.

5.2 Asset Life Cycle Management

A comprehensive approach to asset management involves processes for managing and maximizing the performance of an asset while minimizing its costs throughout the course of its life cycle, enabling the Municipality to make better asset investment decisions. This approach considers a range of parameters, for example: age, condition, historic performance, current capacity, etc.

Key components of a life cycle Management Framework include:

1. Operational Strategies – including mitigating risks, deferring the need for upgrades/renewals, asset utilization and demand, and emergency response planning
2. Maintenance Strategies – including approaches for determining the optimal mix of planned and unplanned maintenance and for carrying out maintenance performance assessments and reviews
3. Financial/Funding Strategies – including valuation approaches, long term financial forecasts and funding plans
4. Optimized Decision Making Techniques – including risk based approaches, multi criteria analysis approaches along with approaches to optimizing investment across service areas
5. Investment Planning – including the identification and scoping of projects, to address capital maintenance, enhanced levels of service, legislative, growth (including development) or efficiency needs.

5.3 Non Infrastructure Solutions

The Municipality's asset management strategy should also incorporate non-infrastructure solutions, which are policies and planning actions that reduce life cycle costs without actually investing in specific assets. Examples are:

- Master Plans – our municipality has master plans for transportation, fire services and the Indoor Facilities Development Strategy
- Preventative Maintenance – programs such as ditching, crack sealing, regularly scheduled vehicle maintenance, roof patching, etc.

5.4 Operational and Maintenance Strategies

Operational and maintenance activities fall into the following categories, each having distinct objectives and triggering mechanisms:

1) Operations: Activities designed to ensure sufficient utilization of the asset. These are the regular tasks that are undertaken to ensure the assets achieve their service

potential. Operations strategies include activities such as inspections and system monitoring.

2) Maintenance: Maintenance strategies are designed to enable existing assets to operate to their service potential over their useful life. There are two (2) types of maintenance:

a) Unplanned Maintenance: work carried out in response to reported problems (e.g. an asset failure)

b) Planned Maintenance: work carried out to a pre-determined schedule or programmed as a result of needs identified during inspections

A key element of asset management planning is determining the most cost effective blend of planned and unplanned maintenance including regularly scheduled inspection and maintenance or more significant repair and activities associated with unexpected events. The overall operations and maintenance strategy is intended to maintain the current levels of service and mitigate risk while minimizing cost.

Existing strategies include:

CATEGORY			PLANNED
Bridges and Culverts	Bridges and large culverts are inspected biennially by a consultant who specializes in this field, in accordance to the Highway Traffic Act, and the Public Transportation and Highway Improvement Act. The inspection and reporting methods must meet Ontario Structure Inspection Manual. Half of the structures are inspected each year. Load limits are implemented through a by-law by the Municipality under the recommendation of the consultant who inspects the structures. The by-law is updated biennially.	Guide rail and parapet walls are often damaged by vehicle collisions or by snow plows. Repairs are made as the damage is noted, usually through an annual repair contract. Where the biennial inspection reveals that a structure had deteriorated substantially since the last inspection, the ten (10) year plan may be revised to make repairs sooner than planned. Patch repairs to the travelled road surface are completed as the damage is noted.	Engineering has a ten (10) year rehabilitation forecast for bridges and culverts as determined by findings in the inspections. A Structure Priority Number (SPN) is calculated for each structure. The ten (10) year plan is based on the SPN, the available budget, and includes minor preventative maintenance.
Buildings – *Recreation*	Detailed condition audits are completed for each building as part of a five (5) year cycle. Each audit provides a detailed review of all major building categories, providing ratings of excellent to critical on all of the categories.	Any unplanned building deficiencies are reviewed and assessed by the staff currently on site. Determination of proper handling of repairs or replacement is decided at the supervisory level.	The reports of the detailed condition audits of each building are used by Community Services in order to create a five (5) year financing plan. This plan segregates most critical to least critical and uses budget availability in order to complete the forecast.
Buildings - *Operations*	Buildings that are permanently staffed are inspected daily for any repairs or maintenance that will be required. All other buildings are inspected a minimum of once a month.	Our Building Services support site is used for work order generation and prioritization. These maintenance items can be entered by Building Users, tenants, Board, Staff, or specific individuals. Unplanned repairs are assessed to determine root cause and either completed subject to funds being available and urgency.	An annual maintenance plan exists which details weekly, monthly, quarterly or annual tasks to be completed. These tasks are completed either with in house staff (i.e. building maintenance), or contracted out (i.e. HVAC PM)

ASSET CATEGORY			
Fleet	To ensure compliance with MTO safety standards all vehicles are inspected at each regular maintenance interval. A seventy- one point inspection is completed at each interval by our fleet technicians. Vehicles are also subject to a comprehensive eighty-three point annual inspection to ensure the vehicle will reach its maximum viability. Servicing and maintenance of specialized emergency vehicle items are outsourced when specialized services are required. Some vehicle equipment maintenance is performed by an Emergency Vehicle Technician.	Items that fail are assessed to determine if repair or replacement is the most cost effective approach. Age, kilometers and general state of the vehicle are some of the defining factors.	Operations and Emergency Services have replacement plans once vehicles reach the end of their useful lives. Some vehicles that are still in good working order at the end of the useful life will sometimes be kept beyond the end of its useful life in order to utilize the asset longer.
Miscellaneous Assets	The miscellaneous asset category doesn't have a system in place for replacement or refurbishment.		Equipment is maintained at regular intervals as each asset requires unique maintenance.
Parking Lots	An inspection audit of all the Municipal parking lots have been completed in 2015.	Patch repairs to the surface are completed as the damage is noted.	In 2016, the Municipality established a reserve fund for the rehabilitation of parking lots. Rehabilitation is triggered by the condition of the parking lot, in sequence based on the inspection audit as sufficient funds become available.
Parks	In Compliance with CSA Group regulation Z614- 14, structures are visually inspected weekly, a detailed inspection and report performed monthly, and an annual comprehensive report is completed each year to ensure structures are meeting required standards. Details of past inspections of park assets are kept by the Parks Supervisor and is currently in the process of converting to computerized storage.	Items that require repairs are to be completed at the time the defect is found and reported. If time is required for the repair, all reasonable access must be restricted until the repairs are completed.	A five (5) year forecast for replacing park structures and courts is prepared. Each year, there are two (2) courts and two (2) play structures that are due for replacement.
Roads	Biennial inspections of the entire roads inventory is completed and the findings are compiled into a roads needs study completed every two (2) years. Roads must meet Ontario Regulation 239- 02, which provides minimum maintenance standards for municipal highways.	Pot holes are repaired by staff on a regular basis based on the road patrols. The frequency of pot holes is influenced by the weather, and the repair demand changes throughout the year.	The roads needs study provides a ten (10) year plan for rehabilitation of roads based on condition levels, the return on the investment for the recommended repair and annual budget values. A preventative maintenance program that includes crack- sealing, ditching, and shouldering is currently underway.

ASSET CATEGORY	OPERATIONS	UNPLANNED MAINTENANCE	PLANNED MAINTENANCE
SWM Ponds	Inspected annually by Operations staff to ensure that all ponds meet regulations within: - Ontario Water Resource Act - Environmental Protection Act - Clean Water Act - Conservation Authority Act	When unplanned deficiencies are determined, repairs are completed at the time it is located.	Minor maintenance (such as debris, litter and vegetation removal) is completed at the time of each annual inspection. Every 5 - 7 years, major maintenance (such as concrete repairs, banks erosion control, damage to fencing and grates) is completed. Every 7-15 years a pond wide sediment removal is completed. Not all service levels are being met due to available resource levels.

5.5 Approach for Options Analysis

Decision making approaches within Clarington utilizes sound judgement and logic within individual service areas. Currently, the Capital budget is categorized into departmental groupings. Each department then prioritizes their capital needs within their service area responsibilities based on a certain base funding allotment. For critical asset needs, corporate reallocations are considered and increases to base funding requested.

An objective moving forward, as part of the Corporate Asset Management program, service areas will be able to base their decision making on a more consistent asset based approach rather than financing approach which will involve a combination of risk based analysis, cost-benefit analysis and multi criteria analysis across the organization.

1. Risk Based Analysis: This approach focuses on maximizing risk reduction for minimum cost. The Corporation quantifies the risk of failure of the asset, identifies mitigation measures and then sets out to reduce the risks in most cost effective manner.
2. Cost-Benefit Analysis: This involves identifying the financial impacts of various alternatives within a business case. This includes both benefits and costs over the entire analysis period with the ultimate goal of assessing which alternative presents the greatest value of benefits compared to costs.
3. Multi-Criteria Analysis: This approach typically utilizes a set of benefit criteria which reflect the strategic results of the Municipality as a whole. This approach provides an objective guide to help determine which combination of capital projects represent the best overall value based on the level of benefits they provide to the community and/or other stakeholders. Individual service complaints will be factored into this process but would not be a determining factor.

5.6 All Assets

Our current software for Asset Management uses condition (age based or calculated condition rating) and risk (based on replacement cost for some assets or weighted rankings for other assets described in the applicable sections below). The risk matrix

shows the 2016 priority of asset rehabilitation or renewal as determined from our current software capabilities.

The risk matrix generated from our CityWide software is calculated based on the consequence of failure and probability of failure of each asset. The probability of failure currently is based on the condition of the asset. If an asset's condition is very poor, CityWide automatically calculates the probability of failure as very high.

The current scores that will determine budget prioritization currently within the system are as follows:

Probability of Failure: All Assets (horizontal axis)	
ASSET CONDITION	**PROBABILITY OF FAILURE**
Very Good	Score of 1
Good	Score of 2
Fair	Score of 3
Poor	Score of 4
Very Poor	Score of 5

The consequence of failure is based on the cost of the asset with a high cost equating to a high consequence of failure. The consequence of failure in some asset types has been amended to include other factors beyond cost that will be covered in each applicable asset section that follows.

The following risk matrix incorporates all of our assets and rates them based on their consequence of failure (vertical axis) and their probability of failure (horizontal axis).

All Asset Risk Matrix:

The top six (6) assets in the upper right hand side of the risk matrix above are as follows:

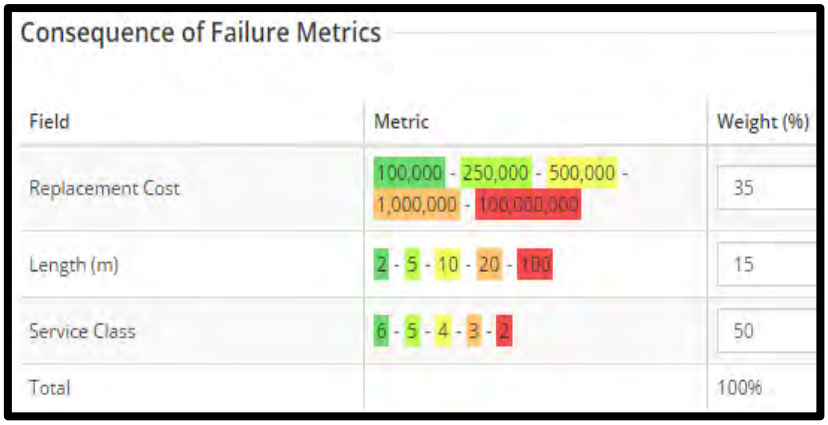
Asset Description	In-Service Yr	Useful Life (Yrs)	Asset Age (Yrs)	Historical Cost	Replacement Cost
Road - Surface 94501 King St W (Reg Rd 57 to Roenigk Dr)	2007	20	9	$448,282	$411,246
1990 GMC Rescue Truck #1	1990	10	26	$25,000	$750,000*
2003 Freight Pumper #2	2003	10	14	$340,573	$757,410*
2003 Freight Pumper #5	2003	10	14	$313,131	$757,410*
2004 Spartan Pumper #4	2004	10	13	$408,977	$757,410*
2005 Freight Pumper #44	2004	10	12	$276,335	$757,410*

*Emergency Services have determined the replacement cost based on similar assets that were purchased within the last two (2) years.

5.7 Bridges & Culverts

Bridge inspections are completed for all structures that span 1.2 meters or

more. Legislation requires the inspection of structures 3.0 m and greater, but Clarington includes all structures 1.2 m and greater. Structure inspections for the Municipality are performed by our engineering consultants. Inspections are completed on a biennial basis (once every two (2) years). Included in the inspection must be structure type, number of spans, span lengths, detailed photo images, structure element by element inspection and other key attribute data. The inspection also provides rating and recommendations for repair, rehabilitation and replacement. The records of these are forwarded to the Municipality's Engineering Department, as a PDF file for record retention. These inspections are completed by AECOM, which provide a detailed listing of our bridges, as well as a Bridge Condition Index (BCI). This index is a weighted calculation of the total condition of each component of the bridge in our inventory. The BCI provides a rating between 0 (lowest possible score) to 100 (highest possible score) for an overall condition rating of each bridge, which is used to provide a current condition of each bridge. This condition rating has been implemented into our CityWide Tangible Capital Asset software in order to provide a more accurate condition rating of our bridge, as compared to the straight-line approach. This is used for the probability of failure.



Consequence of Failure Metrics

Field	Metric	Weight (%)
Replacement Cost	100,000 - 250,000 - 500,000 - 1,000,000 - 100,000,000	35
Length (m)	2 - 5 - 10 - 20 - 100	15
Service Class	6 - 5 - 4 - 3 - 2	50
Total		100%

The Municipality of Clarington's Engineering Department and AECOM have completed a Transportation Master Plan. This document will be used to develop strategies for our roads and bridges networks from now until 2031. The Transportation Master Plan provides forecasts for future expansion and required needs due to community growth and changing transportation modes.

Bridges and culverts utilize three (3) parameters for determining the consequence of failure. The first parameter is the detour length in metres, the second parameter is service class of the road segment that the structure resides upon, (a rating from 1 to 6 that is provided for each road segment). The final parameter is the estimated current replacement cost that is calculated within CityWide.

Bridge and Culvert Risk Matrix:

The top 11 Bridge and Culvert assets replacements required are as follows:

Asset Description (Structure ID)	In-Service Yr	Useful Life (Yrs)	Age (Yrs)	Historical Cost	Replacement Cost
Leskard Rd Concrete Bridge (98045)	1948	50	68	$26,852	$293,096
Waverley Rd Overpass Concrete Bridge (99003)	1967	45	49	$301,352	$2,132,645
Highway 2 Concession 3 Clarke Bridge (98025)	1960	50	56	$45,332	$376,694
Middle Rd Concrete Bridge (99534)	1928	50	88	$8,182	$117,094
George St Culvert (93504)	1940	50	76	$7,431	$119,639
North Mill Lane Culvert (95506)	1970	40	46	$26,054	$163,695
Squair Rd Clarke Culvert (98518)	1980	40	36	$60,320	$175,774
Howden Rd East Culvert (99125)	1980	40	36	$129,808	$378,264
Elliot Rd Concrete Bridge (98037)	1940	50	76	$15,117	$243,384
Soper Creek Concrete Bridge (94005)	1960	50	56	$106,358	$883,801
East Townline Rd Clarke Culvert (98511)	1970	40	46	$23,780	$149,408

5.8 Buildings

The buildings inventory data was extracted from Clarington's CityWide software database and our financial tangible capital asset records. The Municipality of Clarington owns and maintains 44 buildings. Currently, only one (1) building is considered surplus and deemed as not to be replaced. This building once housed the Newcastle Fire Hall until a new building at a different location was built and opened in 2014.

In the asset management records, buildings are separated into manageable components such as: structure, interior, mechanical, roof, ice rink and pools. Each component is comprised of different useful lives and associated risks. The

structure and interior costs for a building can be extraordinarily high, thus the associated replacement costs can be unrealistic. The Municipality isn't likely to demolish an entire building to just replace with a similar structure. The capital costs associated with the structure and interior of a building will represent more renovations and repair over the life of the asset. This AMP applied a factor of 25% to the inflated replacement costs of all structures and interiors of buildings.

The Community Services department has building audits performed on each of the recreation facilities within the Municipality of Clarington on a five (5) year schedule. One (1) or two (2) buildings are audited each year until all the buildings have been reviewed within the five (5) year cycle. Each condition audit provides a detailed review of all the major categories of the location that has been inspected, as shown below:

- Structural Components and Systems
- Building Exterior Finishes
- Interior and Exterior architecture
- Mechanical
- Electrical
- Life Safety
- Landscaping

The details from each of the above categories are compiled together in a report completed by the external party. The auditor provides each item inspected with a priority level from 1 to 5, 1 being immediate to one (1) year to repair or replace, and 5 being ten (10) years plus to replace or repair. A condition level from excellent to very poor is provided for each equipment or system within the building as part of the audit as well. This allows for preparation if an asset is deteriorating faster than expected or will possibly exceed the expected useful life.

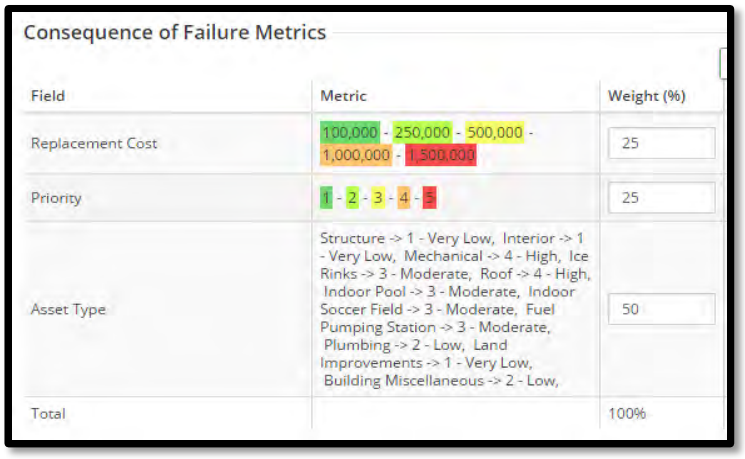
Buildings Risk Matrix:

The top ten (10) Building assets from the risk matrix above are as follows:

Asset Description					
Newcastle Arena Ice Rink - 1975 Original	1975	30	41	$402,887	$1,764,700
Orono Arena Ice Rink - 1979 Original	1979	30	37	$492,634	$1,567,360
Rickard Recreational Complex Roof - 301	1988	25	28	$51,982	$112,309
Rickard Recreational Complex Roof - 302	1988	25	28	$51,982	$112,309
Alan Strike Aquatic and Squash Centre – 1994 BUR Roof	1994	20	22	$54,697	$110,508
Fire Station #1 Bowmanville – Unit Heater in Bay	1994	20	22	$2,567	$5,186
Fire Station #1 Bowmanville – Unit Heater in Bay	1994	20	22	$2,567	$5,186
Fire Station #1 Bowmanville – Carrier VVT Control System	1994	20	22	$2,054	$4,150
Fire Station #5 Enniskillen – Furnace #1	1990	25	26	$2,611	$5,235
Fire Station #5 Enniskillen – Furnace #2	1990	25	26	$2,611	$5,235

In order to provide a more accurate level of risk for building assets, there have been additional parameters implemented into the Consequence of Failure Metrics. The first parameter added is the priority rating using a scale of 1 to 5, with 1 indicating that the asset most likely won't be replaced to a 5 indicating a critical asset to the safety of the community. There are only one (1) type of facility that has been determined to be at a level of 5 and those are the fire stations. A priority 4 is applied to facilities such as large indoor recreation facilities that provide emergency shelter and the animal shelter.

The second parameter involves each building asset type receiving a rating between 1 and 5. The building structure, interior and land improvement assets have a minimum rating of 1. This was determined due to the unlikelihood of fully replacing these assets at the end of their useful lives; for example, concrete structures are likely to be refurbished and not demolished. There are currently no asset types that have received the maximum level of 5 for this rating system. Roofs and mechanical assets are the highest rated asset types at the level of 4, due to the elevated consequence if these assets are not replaced at or close to the end of their expected useful lives.



Consequence of Failure Metrics

Field	Metric	Weight (%)
Replacement Cost	100,000 - 250,000 - 500,000 - 1,000,000 - 1,500,000	25
Priority	1 - 2 - 3 - 4 - 5	25
Asset Type	Structure -> 1 - Very Low, Interior -> 1 - Very Low, Mechanical -> 4 - High, Ice Rinks -> 3 - Moderate, Roof -> 4 - High, Indoor Pool -> 3 - Moderate, Indoor Soccer Field -> 3 - Moderate, Fuel Pumping Station -> 3 - Moderate, Plumbing -> 2 - Low, Land Improvements -> 1 - Very Low, Building Miscellaneous -> 2 - Low,	50
Total		100%

In conclusion, for building consequence of failure multiple factors are weighted including replacement cost, life safety priority and asset type.

5.9 Erosion Control

There are no erosion control assets within any elevated portion of the risk grid because all of the assets included in this section are currently in the early portion of the expected useful life, with the oldest erosion control asset having an acquisition date in 2009. As the several assets in this category continue to age, the assets will slowly increase on the risk grid as the likelihood of failure increases.

Erosion Control Risk Matrix:

5.10 Fleet

The Operations Department uses the manufacturer's maintenance schedule for each vehicle to develop an overall maintenance plan for fleet inventory. Various procedures are included in this maintenance plan in order to ensure our vehicles are operating at the highest efficiency and meets all the required standards. The Ministry of Transportation Ontario provides several safety standards to ensure vehicles are operating at a safe and environmentally responsible level. Some of the standards include

emissions testing and the Highway Traffic Act. In addition, the Province has implemented a Commercial Vehicle Operator Registration (CVOR) for vehicles with a gross weight of 4,500 kg and over. The CVOR requires the Municipality to keep records of inspection reports, repairs, annual kilometers traveled, and driver hours of service. This allows the Ministry of Transportation to monitor that the vehicle is in a safe operating state and is within required standards.

Inspections are completed by our fleet technicians at one of two intervals, 250 hours of use or annually, whichever is reached first. The implementation of the maintenance plan will ensure each vehicle meets the MTO safety standards and provides an assessment of each vehicle. At that time, preventative maintenance is also completed to ensure each vehicle is in line to meet the useful life expectancy. With respect to vehicles that are at the end of their life expectancy and still in good working condition, it will be determined near the time of expiry if the best option is trade-in or continue to use the vehicle until a later date. The decision will be based on maximizing trade-in value and the state of the remaining fleet inventory. During annual inspections, any required repairs found are completed at that time to ensure each vehicle is in the proper working condition. Servicing and inspection of items that require certification and those pieces of equipment specifically found on fire fleet vehicles (such as pumps, hoses, and ladders) are outsourced to a specialized technician when necessary. The factors that are used to determine the risk ratings for our fleet vehicles are age based condition ratings and calculated replacement costs. CityWide takes both the replacement cost and condition of each asset and provides a calculated risk factor to determine where each asset will be located on the Risk Matrix chart.

Fleet Risk Matrix:

The top 11 Fleet assets from the matrix above are as follows:

Asset Description	In-Service Yr	Useful Life (Yrs)	Age (Yrs)	Historical Cost	Replacement Cost
2003 Freight Pumper #2	2003	10	14	$340,573	$757,410*
2003 Freight Pumper #5	2003	10	14	$313,131	$757,410*
2004 Spartan Pumper #4	2004	10	13	$408,977	$757,410*
2005 Freight Pumper #44	2004	10	12	$276,335	$757,410*
2000 International Dump Truck #00525	1999	10	17	$148,227	$208,254
1999 GMC Tanker #4	1999	15	17	$148,525	$263,064*
2000 Volvo WG64 Tandem Truck #00506	2000	10	16	$161,033	$219,376
2000 Volvo WG64 Tandem Truck #00537	2000	10	16	$161,033	$219,376
1999 GMC Tanker #1	2001	15	16	$149,413	$263,064*
2002 International 20S Truck #01540	2001	10	15	$153,779	$203,113
2001 Volvo VHD Tandem Truck #01518	2001	10	15	$166,994	$220,568

* Emergency Services have determined the replacement cost based on similar assets that were purchased within the last two (2) years.

5.11 Miscellaneous Assets

For the miscellaneous asset categories that are pooled assets, they will rarely be found in the top of the replacement grid since they are deemed disposed of in the year following the end of their useful lives. Miscellaneous assets category consists of a very diverse number of different items. These assets provide important resources for the Municipality, but when compared to some of the larger asset categories, it can be easily overlooked.

Computer Software is a category that is now deemed “Not for Replacement” because software is rarely completely removed and replaced by new software. There are upgrades and expansion packs that may be provided by the software provider, which allows for continual usage throughout and past the expected useful lives of the assets.

Miscellaneous Assets Risk Matrix:

Consequence	1	2	3	4	5
5	1 Assets 1.00 unit(s) $683,841.00	0 Assets - $0.00	0 Assets - $0.00	0 Assets - $0.00	0 Assets - $0.00
4	16 Assets 16.00 unit(s) $3,498,663.00	5 Assets 5.00 unit(s) $538,749.00	5 Assets 5.00 unit(s) $640,534.00	2 Assets 2.00 unit(s) $195,074.00	2 Assets 2.00 unit(s) $782,209.00
3	16 Assets 16.00 unit(s) $1,053,763.00	9 Assets 9.00 unit(s) $716,314.00	4 Assets 4.00 unit(s) $281,079.00	1 Assets 1.00 unit(s) $74,294.00	10 Assets 10.00 unit(s) $461,238.00
2	5 Assets 5.00 unit(s) $83,871.00	7 Assets 7.00 unit(s) $113,020.00	3 Assets 3.00 unit(s) $50,131.00	7 Assets 7.00 unit(s) $98,676.00	19 Assets 19.00 unit(s) $388,733.00
1	9 Assets 9.00 unit(s) $47,805.00	6 Assets 6.00 unit(s) $41,992.00	3 Assets 3.00 unit(s) $19,698.00	3 Assets 3.00 unit(s) $20,942.00	5 Assets 5.00 unit(s) $35,463.00

Probability

The top ten (10) miscellaneous assets from the grid above are as follows:

Asset Description	In-Service Yr	Useful Life (Yrs)	Age (Yrs)	Historical Cost	Replacement Cost
Rickard Recreational Complex Parking Lot	1988	35	28	$375,007	$683,311
Alan Strike Aquatic Centre Parking Lot	1995	35	28	$66,211	$98,898
Darlington Sports Centre Parking Lot	1975	35	41	$35,012	$154,436
Newcastle Community Hall Parking Lot	1985	35	31	$19,335	$40,638
Wireless Radios - Hampton x 2	2006	7	1	$39,420	$47,399
2011 Pooled Computer Hardware - CPU's	2011	4	5	$35,115	$37,913
Wireless Radios - Depot 42 x 2	2008	7	8	$32,103	$36,287
Wireless Radios - Newcastle Rec Centre x 2	2008	7	8	$32,103	$36,287
Wireless Radios - Courtice Fire Station 4 x 2	2008	7	8	$32,103	$36,287
Wireless Radios - Bowmanville Fire HQ	2008	7	8	$32,103	$36,287

Parking lots are the only asset category within the miscellaneous inventory that has an additional factor for consequence other than the estimated replacement cost. Each parking lot has received a priority rating from 1 (being the lowest level of consequence) to 5 (the highest level of consequence). This is determined by the facility or usage that each location receives.

5.12 Parks

The Operations Department has implemented policies to ensure that all of the Municipality of Clarington's play structures adhere to CSA standard Z614-07 and are safe for public use. Included in this policy are the procedures that are followed for inspection, repairing and reviewing all park structures. All play structures are inspected under the direction of a certified playground inspector. All inspection forms are submitted to the supervisor in less than seven (7) days of the inspections completion. All the required repairs will be provided on the completed inspection reports and followed up will be prepared and noted by the supervisor. Any critical hazards on structures must be resolved immediately, all non-critical and general findings will be scheduled to be addressed within 30 days. Once the repairs are

completed, the certified playground inspector will perform a re-inspection to confirm compliance with CSA standard Z614-07.

The Municipality of Clarington's Parks staff has completed two (2) forecasts for replacements of courts and playground equipment. The schedules are a five (5) year plan that provides two (2) playground structures and two (2) courts to be replaced each year. Play Fields have been deemed as "not for Replacement" other than the Bowmanville Indoor Soccer Lacrosse Bowl and the South Courtice Artificial Turf Field.

Other fields, such as soccer fields, baseball fields and football fields, are considered not for replacement due to the fact that the sod and grading will only require maintenance and unlikely require to be fully replaced.

The Park asset's risk requirements are determined currently on a similar basis as our fleet vehicle risk is calculated. Using the assets age-based condition rating to determine the probability that the asset will fail and the replacement cost of the assets to provide the consequence if that asset is to fail.

Parks Risk Matrix:

The top six (6) Park assets from the matrix above are as follows:

Asset Description (Structure ID)	In-Service Yr	Useful Life (Yrs)	Age (Yrs)	Historical Cost	Replacement Cost
Orono Outdoor Pool	1970	35	46	$36,050	$224,917
Bowmanville Valley - Rotary Park pedestrian bridge	1993	30	23	$94,548	$143,829
Solina Park Tennis Courts	1982	20	34	$27,177	$65,043
Argent Park Playground	2001	15	15	$66,610	$87,235
Bowmanville Boat Launch	2009	7	7	$45,902	$52,079
RRC Skateboard Park	1999	25	17	$238,816	$332,692

5.13 Roads

Rural roads typically do not require replacement of the road base. Surface replacement typically includes pulverizing the surface, adding some new granular material and placing the new surface. Through surface replacement, the base is improved. For the AMP, we have assumed that the base for rural roads will not be replaced.

For urban roads, replacement of the base is typically required only when the underground services such as water mains, sanitary sewers and storm sewers need to be replaced. It was assumed that the underground services need to be replaced when they are 80 years old, so that is the life span applied to an urban road base. Replacement costs for road base were determined based on unit prices from recent road reconstruction prices.

The road surface replacement costs were determined based on similar contracts from the past few years. The work was split into three (3) different types of project:

- Surface treatment (high float) replacement
- Rural hot mix upgrade or replacement
- Urban surface replacement

Best practices for road system management include the application of pavement preservation practices throughout the road's life to extend the life of the road rather than replacing the road after it has completely failed. Clarington's Engineering Department uses a pavement management computer model to determine the most cost effective mix of treatments to provide the right treatment at the right time throughout the life span of the road. For the purposes of the AMP, a more simplified model was used to assess the amount of backlog and determine the appropriate funding level over time.

The trigger in the AMP for replacement of the surface is the condition of the road, using a Pavement Condition Index (PCI) of 30 for the threshold to fully replace the surface. Deterioration curves are used to predict the condition of the road over the life span of the road. Initially, the curve is flat indicating that the road remains in good condition for many

years after it is constructed. Towards the end of the life of the road, the curve is steeper, indicating that as the road begins to fail (pot holes, wide cracks, rutting, etc.) the condition deteriorates more quickly.

The life span of a road is the number of years it takes for the PCI to go from 100 (new) to zero (failed). For a surface treated road, the life span was assumed to be nine (9) years. For a hot mix asphalt road, it was assumed to be 30 years. Roads with a PCI of less than 30 are considered to be backlog. There are 117 km of road in backlog. Roads with a PCI between around 45 and 31 are approaching the steeper part of the deterioration curve and will require replacement of the surface within a few years. There are 133 km of road in this range. There are 508 km of road with a PCI greater than 45. This analysis excludes gravel and earth roads.

Roads utilize two (2) parameters to calculate the consequence of failure for both base and surface. The first parameter is the Replacement Price per metre of road, a calculation that divides the current replacement cost by the distance of the segment in meters. The current replacement cost is calculated by the actual construction cost at the time of construction multiplied by a construction price index (NRBCPI). The second parameter is the Service class, which is a rating from 1 to 6 that is provided for each road segment. The service class is calculated by the average daily usage of the road and the speed limit that is given for that road segment.

Both types of road assets (base and surface) utilize individual factors for the probability of failure. Roads base assets adopted the structural adequacy of each segment to determine the required level of failure, this is a figure determined by the Engineering Department. Roads surface assets uses the pavement condition index that is provided by the Engineering Department, this index provides each road segment an overall rating from 1 to 100.

Road Risk Matrix (base and surface):

The top ten (10) Road assets replacements required are as follows:

Asset Description	In- Service Yr	Useful Life (Yrs)	Age (Yrs)	Historical Cost	Replacement Cost
92060 - Surface - Glenabbey Dr (Robert Adams Dr to Prestonvale Rd)	1993	20	23	$52,530	$112,200
92101 - Surface - Varcoe Rd (Hwy#2 to Nash Rd)	1990	20	26	$64,580	$105,600
92103 - Surface - Varcoe Rd (Nash Rd to Hartfield Dr)	1991	20	25	$106,336	$178,200
92302 - Surface - Prestonvale Rd (Claret Rd to Phair Av)	1992	20	24	$79,131	$135,300
94067 - Surface - Waverley Rd (Martin Rd to Spry Av)	2006	20	10	$25,532	$32,340
94279 - Surface - Scugog St (King St to Church St)	1997	20	19	$33,791	$51,744
94503 - Surface - King St W (Scugog St to Temperance St)	1979	20	37	$30,049	$105,600
94513 - Surface - King St (Mearns Av to 332m E of Mearns Av)	1993	20	23	$112,421	$188,397
94671 - Surface - Clarington Blvd (Stevens Rd to North End)	2004	20	12	$63,509	$94,380
99009 - Surface - Energy Dr (425m W of Symons Rd to 550m W of Waverly Rd)	1988	20	28	$114,953	$453,330

5.14 Roadside

The category of Roadside includes assets such as: guide rails, street lighting, sidewalks, and traffic control signals.

Roadside Risk Matrix:

The top seven (8) Roadside assets from the grid above are as follows:

Asset Description		In-Service Yr	Useful Life (Yrs)	Age	Replacement Cost as of 12/31/2016
South Service Road Guiderail	99051	1973	20	43	$18,675
Baseline Rd Over Robinson Creek #1	99057-1	1973	20	43	$11,905
Baseline Rd Over Robinson Creek #2	99057-2	1973	20	43	$10,296
Golf Course Road Guiderail	98343A	1983	20	33	$10,126
Concession Rd 10 Guiderail #1	99241A-1	1985	20	31	$12,223
Concession Rd 10 Guiderail #2	99241A-2	1985	20	31	$12,188
Concession Rd 6 Guiderail	99521-2	1985	25	31	$12,350
Station St Guiderail #1	95003-1	1986	25	30	$30,061
Station St Guiderail #2	95003-2	1986	25	30	$19,444
Station St Guiderail #3	95003-3	1986	25	30	$13,206

5.15 Storm Sewers

Due to the extremely long useful lives of the Storm Sewers inventory, there is currently no assets that are located in the “red” section of the risk grid.

This will change as storm sewers continue to age in the future.

Storm Sewer Risk Matrix:

5.16 Disposal Activities

When an asset reaches the end of its useful life doesn't automatically result in the asset being disposed. We have maintenance and renewal programs that aid in assets still providing service after their pre-determined useful life has expired. There might also be situations where the asset's useful life has expired but since it is of low risk it doesn't meet the criteria of being replaced or rehabilitated.

In the event that an asset needs to be disposed of, the Municipality will replace or rehabilitate that asset depending on whether it is infrastructure or equipment.

5.17 Procurement Methods

Procurement activities for all assets are done according to the Municipality of Clarington's Purchasing By-law 2015-022. Over expenditures are reported to Council based on the Municipality`s Capital Project Over Expenditure Policy approved by Council in FND-008-06.

5.18 Future Demand

This section of the Asset Management Plan analyzes the potential variables affecting municipal resource demand including but not limited to the three (3) planning variables; society, economy and environment. The Municipality has assessed the impact of these trends and has developed a number of demand management strategies to meet demand targets without compromising end-user level-of-service delivery. The Municipality's development forecast for the ten (10)-year planning period from 2015 to 2024, estimates that our population will grow by 20,500 people and add approximately 9,000 new occupied dwelling units.

The impact of the assumptions made in relation to accommodating the Municipality's changing demographics and future demand will not be universal across all service areas and is largely dependent upon the type of asset being considered and its associated life expectancy. The new Clarington Official Plan, adopted November 1, 2016, consists of the text and maps that provides a structural framework for future growth and development in the Municipality of Clarington to 2031.

The main purposes of the Official plan are:

- To foster the economic, environment, cultural, physical and social well-being of the residents of Clarington.
- To guide the future form of physical development of the Municipality with respect to land use and transportation.
- To assist in the prevention and resolution of land use conflicts.
- To provide a framework for identifying and evaluating land use opportunities.
- To provide the basis for other municipal plans, public works and actions.
- To maintain firm urban boundaries and prioritize growth areas.
- To inform the public, business and other levels of government of Council's intentions for the physical development of the Municipality.

The other impact of the variables referenced above (society, economy and environment) add a significant level of uncertainty the longer out you go in the AMP. For example, environmental impacts to future technology based on moving away from fossil fuels may significantly impact types of transportation methods and change the decision factors around road replacement 10, 20, or 30 years from now.

5.19 Risks Associated with the Plan and Strategy

Failure to deliver the Plan will ultimately impact the ability of the Municipality to deliver established levels of service. The following chart is an overview of the ways the plan could fail to generate the expected service levels and actions that can be taken in response.

Risks Associated with the Plan and Strategy

Identified Risk	Potential Impacts	Mitigating Actions
Plan is not followed	• Loss of investments • Potential to shorten useful life • Failure to deliver service level • Prioritization process fails • Inefficient investments	• Monitor and review • Implement quality asset management processes
Failed Infrastructure	• Failure to deliver service • Damage to asset and neighboring equipment and property (private and public) • Injury or death • Customers unable to carry on their business • Non-compliance • Litigation • Damage to the environment • Additional unplanned costs • Asset loss • Negative social impacts	• Repair/replace • Increase investments/ available funding • Innovative technology • Non-infrastructure solutions • Reduce or stop delivering service
Inadequate Funding	• Increased risk of failure • Service reductions • Rising maintenance costs • Prematurely shortens useful life if not maintained • Asset loss • Shift and increase burden to future taxpayers • Defeat planning efforts • Plans become redundant • Lost opportunities • Unpredicted future impacts	• Reduce or stop delivering service • Find additional sources of funding • Increase investments/ available funding • Update planning • Discard efforts on past planning
Poor quality Asset Information	• Inefficient maintenance program • Poor prioritization/ projections • Poor decision making • Improper investments • Inability to delivery service	• Invest in data systems and condition assessments • Determine appropriate level of service and risk metrics and ratings

6.0 Financial Management Strategy

6.1 Objective

The objective of a financial strategy in the Asset Management Plan is to become an informing document for the Municipality's current financial planning and budgeting process and enhance financial decision making through better data analysis which is critical to putting an AMP into action. The financial strategy will indicate the current funding resources utilized and the required funding to sustain the current capital asset inventories while achieving the desired level of service.

There are various capital resources used by the Municipality in regards to funding the asset inventories:

- Tax Levies
- Reserves
- Reserve Funds
- Development Charges
- External Financing
- Debt

In accordance with the Provincial guidelines, the asset management plan financial strategy is required to identify any funding shortfall relative to the financial requirements that cannot be eliminated by revising service levels, asset management and/or financing strategies and discuss the impact of the shortfall and how the impact will be managed. In the case of a shortfall, the Province may decide to review the Municipality's financial strategy and confirm that the shortfall is justifiable. In the Province's review, they may analyze service levels to ensure the Municipality has considered decreasing services levels where applicable to reduce financial restrictions. The Province may also review that all possible asset management and financial strategies have been considered for funding. For example, is the use of debt a viable option and what would the impact be if debt was used for funding?

6.2 Base Analysis

The development of the Municipality's financing strategy for its asset management plan reflects the guidance outlined by the Province of Ontario in *Building Together – Guide for Municipal Asset Management Plans*. Specifically, the development of the financing strategy (and in particular the extent of the Municipality's financing shortfall) is based on the following parameters:

- Presents annual revenues and expenditures for the planning period (20 years), as well as comparative information;
- Does not consider grants from senior governments to be a confirmed source of revenue unless an agreement has been executed. Accordingly, only Federal Gas Tax and the Municipality's allocation for funding under the Ontario Community Infrastructure Fund (OCIF) have been included in the projections.
- Identifies the potential funding shortfall and how it will be managed.

In developing the financial strategy, three (3) alternative scenarios were considered:

- **Scenario 1** – This scenario reflects the assumption that all identified asset management requirements (immediate and long-term contributions) will be incurred by the Municipality. The infrastructure deficit of $91.9 million will be evenly distributed over the next 20 years; $4.6 million per year. This scenario requires a 1% tax levy increase for the first ten (10) years and a 1.5% tax levy increase for the next ten (10) years dedicated to capital purposes, specifically to asset replacement capital projects. Reserve funds are utilized effectively and debt is a necessary financing tool.

- **Scenario 2** – This scenario reflects the assumption that all identified asset management requirements (immediate and long-term contributions) will be incurred by the Municipality with the exception of Roads which will be capped at an average of $9.5 million per year. The infrastructure deficit of $91.9 million will be evenly distributed over the next 20 years; $4.6 million per year. This scenario also utilizes a 1% tax levy increase for the first ten (10) years

and a 1.5% tax levy increase for the next ten (10) years reserve fund and debt utilization.

Scenario 3 – This scenario reflects the assumption that all identified asset management requirements (immediate and long-term contributions) will be incurred by the Municipality. The infrastructure deficit of $91.9 million will be evenly distributed over the next 20 years, $4.6 million per year. This scenario utilities a 2% tax levy increase for the first ten (10) years, followed by a 1% tax levy increase for the next ten (10) years, which is dedicated to capital projects specifically to asset replacement capital projects. Reserve funds are utilized effectively and debt is a necessary financing tool.

	Tax Levy Increase	**Distribution of Infrastructure Deficit**
Scenario 1 & 2	**1% for first 10 years** **1.5% for years 11-20**	**20 years**
Scenario 3	**2% for first 10 years** **1% for years 11-20**	**20 years**

6.3 Historical Investment in Infrastructure

The level of investment is important to maintain specific and expected levels of service and to ensure optimum life expectancies of the assets are being achieved. Premature deterioration often results in unplanned repair costs that are typically much higher than planned maintenance costs and deferred maintenance can lead to a shortened useful life.

The following chart indicates an increase in the overall investment in infrastructure over the past few years. The Municipality plans to continue the upward trend of investing in our current infrastructure while simultaneously introducing new assets into our expanding asset inventory.

3 Yr Comparison of Repair & Maintenance Costs

Asset Class	Replacement Value $	Repair & Maintenance Costs *(Operating Exp)*	Non-Infrastructure Solutions Costs *(Studies & Inspections)*	Rehabilitation and Replacement Costs *(Capital Exp)*	Total Investment $	Annual Investment Level %
2013						
Bridges & Culverts	99,257,140	77,041	47,724	138,445	263,210	0.27%
Buildings	72,908,621	1,199,078		470,131	1,669,209	2.29%
Erosion Control	1,956,255			228,031	228,031	11.66%
Fleet	23,702,329	145,700		2,087,233	2,232,933	9.42%
Misc.	7,726,627		1,722	384,223	385,945	4.99%
Parks	10,991,701	1,833,995	4,420	626,468	2,464,883	22.42%
Roads & Roadside	504,656,400	1,526,736	110,864	8,107,794	9,745,394	1.93%
Storm Water Management	114,904,511	336,393		768,978	1,105,371	0.96%
Total	**$836,103,584**	**$5,118,943**	**$164,730**	**$12,811,303**	**$18,094,976**	**2.16%**
2014						
Bridges & Culverts	99,539,020	89,852	29,154	393,217	512,223	0.51%
Buildings	75,417,261	478,307	59,206	5,124,555	5,662,068	7.51%
Erosion Control	2,477,182			495,571	495,571	20.01%
Fleet	24,404,492	138,514		529,237	667,751	2.74%
Misc.	9,162,167		649	1,450,392	1,451,041	15.84%
Parks	12,813,608	2,013,412	1,041	2,038,210	4,052,663	31.63%
Roads & Roadside	514,877,888	1,624,887	51,918	7,606,121	9,282,926	1.80%
Storm Water Management	115,836,130	324,348		659,131	983,479	0.85%
Total	**$854,527,748**	**$4,669,320**	**$141,968**	**$18,296,434**	**$23,107,722**	**2.70%**
2015						
Bridges & Culverts	99,959,279	116,424	49,187	203,567	369,178	0.37%
Buildings	79,451,177	513,399	72,062	5,095,883	5,681,344	7.15%
Erosion Control	3,634,550			1,120,999	1,120,999	30.84%
Fleet	25,523,025	185,456		977,399	1,162,855	4.56%
Misc.	10,078,130		21,826	622,978	644,804	6.40%
Parks	15,400,467	2,103,845	699	2,700,730	4,805,274	31.20%
Roads & Roadside	531,420,168	1,736,466	16,824	12,737,205	14,490,495	2.73%
Storm Water Management	121,287,576	338,813		632,675	971,488	0.80%
Total	**$886,754,372**	**$4,994,403**	**$160,597**	**$24,091,436**	**$29,246,436**	**3.30%**

6.4 20 Year Expenditure Forecast per Asset Category

The Municipality's asset replacement schedule is determined based on asset age, condition, useful life and associated risk with the probability of failure and consequence of failure. This is all derived through the preceding chapters of this AMP.

Infrastructure assets use the NRBCPI quarterly (Toronto) inflation chart for calculating current replacement cost. The equipment based assets use the CPI Monthly (Ontario) schedule to calculate the current replacement costs. Those costs use a flat 2% inflation rate for future years.

Some of the assets included in the Municipality's asset inventory are marked as non-replaced. These assets are generally not fully replaced when a consistent maintenance schedule is followed. Those assets are that are not included in the 20 year forecast for expenditures are:

- Computer Software
- Parks – Play Fields
- Parks – Park Lighting
- Traffic Signals
- Sidewalks
- Street Lights

When analyzing the asset category of Buildings it was apparent that the Interiors and Structures have a large historical cost resulting in an unrealistic replacement cost. The Municipality is unlikely to demolish a building to simply rebuild it with a similar structure. The associated replacement costs for all building's interiors and structures are at 25% of the inflated replacement cost to be more in line with actual capital expenditures that would be projected to occur.

For Bridges and Culverts, we initially considered using the condition rating (BCI or SPN) rather than the age of the structure as the trigger to make improvements. The condition of the structure is a better indicator of the existing condition of the bridge than age,

however, without having a good model to predict what the condition will be in future years, it's necessary to use age as the determining factor.

The calculation uses the year of construction plus the original design life to determine when rehabilitation or replacement would be required. For each structure, it was determined whether it is likely that the Municipality would be able to perform a cost-effective rehabilitation to extend the life of the structure. This was based on the type and size of the structure and the age. The following assumptions were made:

- Design life for structures built prior to 2000 is 50 years, for structures built after 2000, it is 75 years,
- Structures that are already well beyond their original design life would be replaced,
- Small (typically less than 3 m span) steel culverts would be replaced,
- Rehabilitation would add 20 years to the life of the structure,
- Rehabilitation cost would be 25% of the replacement cost,
- Costs include only Clarington's share (exclude railway and adjacent municipality share),
- Replacement costs are from the 2016 Structure Inventory and Inspection Report.

Where the structure is beyond the original design life, 2015 was used as the year for rehabilitation or replacement. This can be considered the backlog. The backlog was found to be $13,361,421. The average funding required per year from 2016 to 2036, excluding the backlog, was found to be $2,169,315.

The resulting plan is not perfect, but it provides a good long range indication of the required funding level and amount of backlog. At the time of determining specific structures to rehabilitate or replace in the short term, it is better to use the condition ratings, as discussed previously.

The funding requirements by year based on this analysis fluctuates significantly. This is because we do not know an exact date of construction for many structures, so our database includes an assumed year. Many structures were assumed to be constructed

in 1970 or 1980, which results in large peaks at the end of the design life in 2020 and 2030. It is recommended that the average funding level over the AMP study period be used on an annual basis to smooth out the artificial peaks created from the assumption of date of construction.

The following table is a summary by asset category of the expected expenditures required for the next 20 years. At this time, 20 years was selected as the AMP timeframe. The provincial guidelines indicate a minimum of ten (10) years to a maximum of the entire life cycle of assets (could be 50 years plus). Due to uncertainty in external factors beyond a 20 year time frame, 20 years was selected for Clarington's AMP purposes. The first column indicated the infrastructure deficit of $91.9 million of assets that are past their useful life and should have been replaced in prior years.

This represents only 12% of the total replacement costs of all assets (excluding land) detailed in section 3.1 of this AMP. This reflects Council`s successful commitment to funding of capital assets through the annual budget process and consistent, reliable tax levy increases to support the cost of capital.

Appendix A-1 to this plan includes the detailed list of backlog projects broken down by each project component and Appendix A-2 includes the detailed list for the next 20 year time frame.

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Bridges & Culverts																				
Bridge - Rehab	795,674	1,020,853	298,500	298,500	460,079	298,500	780,200	298,500	301,337	201,237		162,045	855,728							
Bridge - Replacment			644,007							1,358,375	1,358,375	1,358,375	1,358,375	1,358,375	1,358,375	1,358,375	1,358,375	1,358,375	1,358,375	623,316
Culvert - Rehab	448,203	215,376	215,376	215,376	215,376	380,759	215,376	373,637			172,695		623,166	200,925						216,857
Culvert - Replacment	1,203,494	1,203,494	1,203,494	1,203,494	1,203,494	1,203,494	1,203,494	1,203,494					4,182,424	354,861				4,028,149		
Bridges & Culverts Total	**$ 2,447,371**	**$ 2,439,723**	**$ 2,361,377**	**$ 1,717,370**	**$ 1,878,949**	**$ 1,882,753**	**$ 2,199,070**	**$ 1,875,631**	**$ 301,337**	**$ 1,559,612**	**$ 1,531,070**	**$ 1,520,420**	**$ 7,019,693**	**$ 1,914,161**	**$ 1,358,375**	**$ 1,358,375**	**$ 1,358,375**	**$ 5,386,524**	**$ 1,358,375**	**$ 840,173**
Buildings																				
33 Lake Road Maint. Building	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,205	-	-	25,047	-	-
Alan Strike Aquatic and Squash Centre	-	43,368	-	-	-	46,943	-	-	-	50,813	-	-	1,250,696	55,002	-	-	-	978,480	906,789	-
Animal Services Building	-	-	-	69,358	8,851	2,516	-	-	76,577	-	86,282	10,166	-	87,495	6,205	-	-	-	105,025	-
Baseline Community Centre	-	-	-	51,787	-	-	-	-	-	-	-	-	-	-	-	-	-	257,027	69,698	-
Bowmanville Cemetery Building	-	-	-	-	-	-	7,161	-	-	-	-	-	-	-	-	-	-	-	-	-
Bowmanville Indoor Soccer	-	-	596,858	-	-	-	-	-	-	-	-	-	381,748	-	-	-	-	1,326,307	-	-
Brownsdale Community Centre	-	-	-	-	-	-	106,682	-	-	-	-	-	-	75,799	5,907	-	-	-	-	-
Clarington Beech Centre	-	-	-	-	-	9,433	-	-	261,806	-	26,000	-	51,391	11,052	-	-	-	-	324,121	4,382
Clarington Museum37 Silver St.	-	-	-	-	-	-	-	-	-	6,044	4,791	41,402	-	-	-	-	-	-	45,131	-
Clarke Museum	-	-	2,201	-	-	-	-	2,430	125,196	-	-	-	2,683	-	47,192	-	-	10,167	-	-
Courtice Community Complex	-	-	-	-	1,816,007	-	7,799	5,860	-	2,011,574	-	24,201	-	-	-	-	27,979	134,464	-	315,051
Darlington Sports Centre	-	-	-	-	-	-	-	417,537	-	-	-	-	24,241	284,848	-	-	-	-	1,294,502	-
Fire Court Building	-	-	-	-	-	-	-	-	2,226	-	-	-	32,871	-	-	-	-	101,801	-	2,768
Fire Station #1 Bowmanville	-	124,744	-	-	-	-	280,202	-	-	52,203	-	-	-	-	-	-	46,001	-	-	-
Fire Station #2 Newcastle	-	-	-	-	-	-	-	-	-	-	-	453,814	-	-	-	-	347,801	-	-	-
Fire Station #3 Orono	-	16,577	-	-	-	-	-	-	-	-	-	22,339	-	-	-	-	357,864	-	-	-
Fire Station #4 Courtice	-	-	21,289	-	-	-	-	83,455	-	-	-	-	260,238	-	-	-	-	28,653	-	-
Fire Station #5 Enniskillen	-	-	36,576	-	-	-	-	-	9,441	-	-	-	-	47,788	-	-	70,283	-	-	-
Hampton Community Hall	-	-	-	50,423	3,260	-	-	-	-	-	-	3,745	-	-	-	-	-	-	72,165	-
Hampton Operations Depot	-	-	-	-	-	-	-	1,133,948	-	24,134	-	-	-	303,687	-	-	-	46,475	-	-
Haydon Community Hall	38,617	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kendal Community Centre	-	-	-	-	157,507	-	-	-	-	-	-	-	-	-	-	-	-	57,983	-	211,984
Memorial Park Clubhouse	-	-	-	-	-	-	-	-	-	-	-	-	3,063	70,120	-	-	-	-	-	-
Municipal Admin Building	345,787	-	371,788	-	-	153,637	42,880	-	67,591	-	3,684,500	-	-	-	-	1,448,702	98,820	244,195	82,393	-
Newcastle Arena	-	13,637	-	8,724	-	14,761	29,564	256,493	-	47,537	-	24,095	53,447	17,294	79,421	46,397	-	610,331	-	-
Newcastle Community Hall	-	-	-	-	-	189,568	-	1,813	-	-	-	-	-	96,865	11,814	-	-	2,210	-	-
Newcastle District Recreation Complex	-	108,464	-	-	-	-	223,324	-	-	-	-	2,515,197	-	-	-	-	639,236	-	-	-
Newcastle Library	-	-	-	-	-	-	284,876	-	-	-	-	109,213	-	-	-	-	37,681	-	-	-
Newtonville Community Hall	-	-	-	-	-	-	-	-	5,567	-	-	-	-	-	5,535	-	-	-	-	6,922
Operations Yard # 42	-	-	-	-	337,531	-	-	182,622	-	-	-	60,367	14,130	-	-	-	-	-	-	-
Orono Arena	-	-	10,686	13,059	5,284	-	339,436	11,798	-	68,583	-	362,324	49,990	50,069	-	19,357	43,562	14,382	6,972	-
Orono Library	-	96,935	-	-	-	-	-	-	-	-	-	-	6,161	-	-	-	-	-	-	-
Orono Operations Depot	85,144	-	-	84,221	-	-	-	208,881	-	-	-	-	-	-	10,635	-	-	-	113,351	-
Orono Town Hall	-	-	-	-	-	58,716	-	-	53,870	-	-	-	-	2,991	-	-	-	-	-	-
Rickard Recreational Complex	2,801,967	230,486	-	114,021	34,985	-	686,562	30,907	107,375	90,214	45,132	3,383,380	24,972	430,827	92,401	514,790	657,999	400,897	663,819	47,086
Sarah Jane Williams Heritage Centre	-	-	-	-	-	-	-	-	-	-	-	-	69,445	-	-	124,523	-	-	-	-
Solina Hall	-	-	-	1,680	-	-	-	-	-	1,892	-	-	32,433	-	-	2,131	-	-	138,530	-
South Courtice Arena	704,410	-	-	-	-	616,138	-	-	-	-	1,560,785	-	59,454	-	-	9,473,185	77,519	-	-	-
Tourism Information Office	-	-	-	-	11,726	-	-	-	-	-	-	-	-	18,592	-	-	-	-	-	-
Tyrone Community Hall	-	-	2,752	-	883	-	-	3,038	221,709	-	-	1,014	3,354	-	-	-	-	3,703	1,165	-
Visual Art Centre	-	-	-	-	-	322,088	393,364	1,072	-	1,615	12,009	86,861	-	-	-	-	-	1,307	-	-
Buildings Total	**$ 3,975,925**	**$ 634,211**	**$ 1,042,150**	**$ 393,275**	**$ 2,376,034**	**$ 1,413,799**	**$ 2,401,851**	**$ 2,339,853**	**$ 931,358**	**$ 2,354,610**	**$ 5,419,499**	**$ 7,098,118**	**$ 2,320,317**	**$ 1,552,428**	**$ 265,316**	**$ 11,629,086**	**$ 2,404,745**	**$ 4,243,427**	**$ 3,823,662**	**$ 588,192**
Erosion Control																				
Erosion Control	-	-	-	-	-	-	-	-	261,774	96,628	-	-	154,527	329,683	-	251,849	354,852	-	635,052	307,248
Erosion Control Total	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 261,774**	**$ 96,628**	**$ -**	**$ -**	**$ 154,527**	**$ 329,683**	**$ -**	**$ 251,849**	**$ 354,852**	**$ -**	**$ 635,052**	**$ 307,248**

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Fleet																				
Aerial Trucks	-	-	-	-	-	-	-	-	1,269,911	-	-	-	-	1,386,584	-	-	-	-	-	-
Attachments	56,895	76,336	43,896	24,899	70,434	6,573	11,172	-	105,684	63,517	61,394	75,779	62,698	50,886	-	-	56,930	51,497	141,080	36,218
Cars and Vans	104,454	38,179	113,143	77,940	-	280,788	26,659	119,985	43,856	129,966	89,529	-	322,537	30,623	137,825	50,376	149,290	102,841	-	370,494
Heavy Duty Trucks	-	1,482,933	225,151	1,527,457	-	1,438,880	233,589	-	3,444,152	1,583,717	-	1,516,037	1,033,294	1,730,212	-	1,401,468	284,744	-	3,717,925	2,950,578
Ice Resurfacers	97,168	-	-	-	-	219,574	101,070	99,347	-	-	109,112	-	-	-	-	130,776	123,203	-	-	-
Light Duty Trucks	103,716	169,903	215,517	-	-	502,144	157,288	119,138	195,165	247,561	-	-	576,806	241,636	136,852	224,183	284,370	-	-	662,569
Loaders/Graders/Chippers	-	474,088	85,909	-	-	-	686,720	461,180	259,127	53,759	-	-	323,879	241,096	681,690	-	699,812	52,636	-	-
Medium Duty Trucks	110,323	121,988	81,578	132,132	-	485,162	85,614	126,726	140,126	93,707	151,778	-	557,299	98,344	145,569	160,961	107,640	174,345	-	640,161
Pumpers	-	819,845	-	-	870,026	-	51,134	1,027,636	3,748,511	960,579	-	999,386	-	-	1,120,468	-	124,717	1,125,471	4,569,414	1,170,940
Tankers	-	284,749	-	-	302,178	-	314,386	-	-	-	-	-	-	722,261	-	-	383,235	-	-	406,692
Tractors/Mowers/ATV's	-	-	28,333	47,646	143,430	463,537	28,502	-	371,571	-	-	-	34,537	58,080	174,841	565,049	34,744	-	452,944	-
Trailers	15,955	84,753	-	23,224	30,829	46,711	31,480	78,522	107,777	20,231	29,159	183,818	75,056	18,005	37,580	16,190	38,374	106,873	131,380	68,772
Unlicensed Fleet Equipment	-	-	67,132	-	95,091	-	-	-	31,221	49,444	-	-	-	-	115,915	-	-	90,351	38,058	27,603
Fleet Total	**$ 488,511**	**$ 3,552,774**	**$ 860,659**	**$ 1,833,299**	**$ 1,511,987**	**$ 3,443,370**	**$ 1,727,613**	**$ 2,032,535**	**$ 9,717,100**	**$ 3,202,480**	**$ 440,973**	**$ 2,775,021**	**$ 2,986,107**	**$ 4,577,726**	**$ 2,550,739**	**$ 2,549,002**	**$ 2,287,058**	**$ 1,704,015**	**$ 9,050,801**	**$ 6,334,028**
Miscellaneous																				
Bunker Suits	4,543	66,519	62,030	58,335	68,054	123,801	19,910	5,219	76,409	71,253	67,009	78,173	142,208	22,870	5,995	87,770	81,847	76,972	89,796	163,352
Communications	-	-	-	-	-	376,919	231,432	86,728	-	-	-	-	530,758	120,360	-	107,303	282,114	105,721	-	497,337
Communications - Fire	-	-	-	36,095	-	83,365	801,229	-	39,851	-	-	-	95,760	43,999	-	-	976,693	-	48,579	109,998
Computer - Hardware	160,034	74,091	251,373	133,662	173,226	80,199	272,094	144,680	187,506	86,810	294,524	156,607	202,962	93,966	318,802	169,516	219,693	101,712	345,082	183,490
Equipment	19,317	28,308	19,321	8,105	75,875	187,778	190,471	46,666	59,168	29,902	145,693	67,252	103,507	101,937	25,283	37,351	322,667	343,397	92,551	120,691
Miscellaneous Assets	-	-	13,450	-	-	-	14,559	-	-	-	15,759	-	-	-	167,721	-	117,243	-	18,464	-
Parking Lots	-	-	11,375	-	-	-	-	-	-	-	-	-	-	919,647	-	-	278,614	-	-	366,082
Parking Meters	-	36,717	-	-	-	-	14,901	7,952	-	-	-	-	-	14,519	-	-	49,416	9,694	-	-
Miscellaneous Total	**$ 183,895**	**$ 205,635**	**$ 357,550**	**$ 236,197**	**$ 317,156**	**$ 852,062**	**$ 1,544,596**	**$ 291,245**	**$ 362,934**	**$ 187,965**	**$ 522,985**	**$ 302,031**	**$ 1,075,194**	**$ 1,317,298**	**$ 517,801**	**$ 401,941**	**$ 2,328,287**	**$ 637,495**	**$ 594,471**	**$ 1,440,950**
Parks																				
Court	38,642	-	-	-	147,371	-	-	-	-	420,949	-	-	78,911	-	81,850	-	-	146,160	371,622	-
ParksMiscellaneous	32,917	-	33,805	-	-	225,037	389,802	94,094	29,416	94,534	-	57,315	114,854	41,721	-	820,596	102,481	46,411	316,260	249,380
Play Fields	-	-	-	-	-	-	-	-	547,879	-	-	-	546,826	-	-	-	-	-	-	-
Playground Equipment	313,026	160,576	338,563	145,614	49,329	51,098	315,755	43,476	128,410	212,388	243,632	-	708,513	502,407	220,312	421,292	216,114	455,661	195,977	66,391
Playground Equipment - Water	-	21,063	103,063	-	331,399	137,770	126,566	273,455	-	-	-	446,215	-	20,040	45,145	206,390	104,903	829,606	168,887	145,311
Structures	53,997	-	-	-	-	-	54,975	216,557	36,055	39,603	-	-	64,253	140,951	151,987	22,048	-	235,461	319,562	37,749
Trails & Paths	-	3,792	32,160	111,807	110,268	161,115	72,375	202,851	139,444	261,861	121,949	86,593	-	129,388	276,328	62,277	214,863	660,442	544,057	138,314
Parks Total	**$ 438,582**	**$ 185,430**	**$ 507,591**	**$ 257,421**	**$ 638,367**	**$ 575,019**	**$ 959,473**	**$ 830,434**	**$ 881,205**	**$ 1,029,335**	**$ 365,581**	**$ 590,123**	**$ 1,513,358**	**$ 834,507**	**$ 775,621**	**$ 1,532,603**	**$ 638,360**	**$ 2,373,743**	**$ 1,916,365**	**$ 637,145**
Roads																				
Guiderails	45,326	68,768	85,284	122,876	8,448	107,186	342,533	288,696	42,608	61,219	183,321	162,392	245,907	13,700	382,799	429,268	179,912	469,382	758,888	34,242
Surface	11,151,459	13,573,702	13,230,671	11,212,503	16,619,450	15,832,754	19,084,733	14,496,217	7,204,220	3,499,048	3,786,595	3,362,023	4,166,572	5,609,325	883,201	21,215,265	12,615,430	4,342,444	5,866,383	1,979,256
Roads Total	**$ 11,196,784**	**$ 13,642,469**	**$ 13,315,955**	**$ 11,335,379**	**$ 16,627,898**	**$ 15,939,940**	**$ 19,427,267**	**$ 14,784,913**	**$ 7,246,828**	**$ 3,560,267**	**$ 3,969,915**	**$ 3,524,415**	**$ 4,412,479**	**$ 5,623,025**	**$ 1,266,000**	**$ 21,644,533**	**$ 12,795,342**	**$ 4,811,826**	**$ 6,625,270**	**$ 2,013,498**
Storm Water Management																				
Conduit	-	-	4,040	-	43,603	15,699	-	-	41,958	146,734	45,790	-	-	-	2,475	-	54,586	-	461,873	27,702
SWM Ponds	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Structures	-	-	-	-	-	-	-	-	-	-	369,640	-	-	-	-	-	-	-	-	
Storm Sewers Total	**$ -**	**$ -**	**$ 4,040**	**$ -**	**$ 43,603**	**$ 15,699**	**$ -**	**$ -**	**$ 41,958**	**$ 146,734**	**$ 415,430**	**$ -**	**$ -**	**$ -**	**$ 2,475**	**$ -**	**$ 54,586**	**$ -**	**$ 461,873**	**$ 27,702**
Total	**$ 18,731,069**	**$ 20,660,242**	**$ 18,449,323**	**$ 15,772,940**	**$ 23,393,994**	**$ 24,122,643**	**$ 28,259,870**	**$ 22,154,611**	**$ 19,744,494**	**$ 12,137,631**	**$ 12,665,454**	**$ 15,810,128**	**$ 19,481,675**	**$ 16,148,828**	**$ 6,736,327**	**$ 39,367,390**	**$ 22,221,606**	**$ 19,157,030**	**$ 24,465,870**	**$ 12,188,937**

6.5 Funding Strategies

6.5.1 Tax Levy Support to Capital

The tax levy support to capital continues to require an increase over the past budget years to fund the AMP requirements. The AMP's financial strategy includes an estimated annual increase in that support of a 1% tax levy increase for the first ten (10) years and 1.5% thereafter for Scenario 1 and 2 and an increase for the next ten (10) years of 2% and 1% thereafter for Scenario 3. To ensure that the Municipality's Reserve Funds maintain a positive balance, this strategy includes a reallocation of the tax levy for Capital to increase the transfers of Tax Levy to Reserve Funds. The additional transfers are included in the annual allotment of Tax Levy to Capital with no further increase to the tax levy collected.

	Scenario #1 and #2			Scenario #3		
	Tax Levy Support to Capital *(1% increase for 10 years 1.5% increase for years 11-20)*	**Projected Increase in Transfers to RF's**	**Balance of tax Levy Support to Capital**	**Tax Levy Support to Capital** *(2% increase for 10 years 1% increase for years 11-20)*	**Projected Increase in Transfers to RF's**	**Balance of tax Levy Support to Capital**
2018	7,425,130	3,016,000	4,409,130	7,986,130	3,016,000	4,970,130
2019	7,997,350	3,016,000	4,981,350	9,130,570	3,016,000	6,114,570
2020	8,581,014	3,021,000	5,560,014	10,297,899	3,021,000	7,276,899
2021	9,176,352	3,021,000	6,155,352	11,488,574	3,021,000	8,467,574
2022	9,783,597	3,026,000	6,757,597	12,703,063	3,026,000	9,677,063
2023	10,402,986	3,231,000	7,171,986	13,941,842	3,231,000	10,710,842
2024	11,034,763	3,231,000	7,803,763	15,205,396	3,231,000	11,974,396
2025	11,679,176	3,231,000	8,448,176	16,494,221	3,231,000	13,263,221
2026	12,336,477	3,226,000	9,110,477	17,808,823	3,226,000	14,582,823
2027	13,161,477	3,226,000	9,935,477	19,149,717	3,226,000	15,923,717
2028	14,002,977	3,426,000	10,576,977	19,710,717	3,426,000	16,284,717
2029	14,861,307	3,426,000	11,435,307	20,282,937	3,426,000	16,856,937
2030	15,736,803	3,426,000	12,310,803	20,866,601	3,426,000	17,440,601
2031	16,629,810	3,526,000	13,103,810	21,461,939	3,526,000	17,935,939
2032	17,540,676	3,531,000	14,009,676	22,069,183	3,531,000	18,538,183
2033	18,469,760	3,526,000	14,943,760	22,688,573	3,526,000	19,162,573
2034	19,417,426	3,526,000	15,891,426	23,320,350	3,526,000	19,794,350
2035	20,384,045	3,626,000	16,758,045	23,964,763	3,626,000	20,338,763
2036	21,369,996	3,626,000	17,743,996	24,622,064	3,626,000	20,996,064
2037	22,336,615	3,626,000	18,710,615	25,292,510	3,626,000	21,666,510

6.5.2 Funding the Capital Replacement Requirements for the next 20 Years

As mentioned in the base analysis, the AMP includes three (3) funding scenarios. The chart depicts the funding options for spreading the infrastructure deficit over 20 years. All scenarios assume that at the 20th year, the cumulative asset replacement will be fully funded with an opening balance available for the subsequent AMP requirements beyond 20 years.

SCENARIO #1 - 1% TAX LEVY PER YEAR FOR 10 YRS, THEN 1.5% TAX LEVY INCREASE PER YEAR AND 100% OF INFRASTRUCTURE DEFICIT OVER 20 YEARS

	Annual Replacement Costs	100% of Infrastructure Deficit	Total Capital Costs	Annual Tax Levy Allotment (less increase to RF and Incremental increase of Debt payments)	Previous Yr Tax Levy Surplus	Reserves	Reserve Fund (including Federal Gas Tax)	Provincial Funding (OCIF)	Debt	Total Funding	Annual Surplus or (Deficit)
2018	18,731,069	4,596,983	$ 23,328,052	4,226,203	-	320,000	9,329,037	1,163,000	8,289,812	$ 23,328,052	$1
2019	20,660,242	4,596,983	$ 25,257,225	4,138,360	1	320,000	7,009,943	1,800,000	11,988,921	$ 25,257,225	($1)
2020	18,449,323	4,596,983	$ 23,046,306	3,762,556	-	320,000	4,998,628	1,800,000	12,165,119	$ 23,046,303	($2)
2021	15,772,940	4,596,983	$ 20,369,923	3,392,265	-	320,000	5,268,234	1,800,000	9,589,425	$ 20,369,923	$0
2022	23,393,994	4,596,983	$ 27,990,977	3,234,881	0	445,000	12,386,256	1,800,000	10,124,841	$ 27,990,978	$1
2023	24,122,643	4,596,983	$ 28,719,626	2,846,278	1	320,000	7,732,588	1,800,000	16,020,759	$ 28,719,626	$0
2024	28,259,870	4,596,983	$ 32,856,853	2,203,289	0	320,000	7,342,258	1,800,000	21,191,306	$ 32,856,853	($0)
2025	22,154,611	4,596,983	$ 26,751,594	1,161,156	-	320,000	11,054,022	1,800,000	12,416,415	$ 26,751,593	($1)
2026	19,744,494	4,596,983	$ 24,341,477	839,546	-	320,000	11,765,033	1,800,000	9,616,899	$ 24,341,478	$1
2027	12,137,631	4,596,983	$ 16,734,614	909,529	1	320,000	9,554,049	1,800,000	4,151,035	$ 16,734,614	$0
2028	12,665,454	4,596,983	$ 17,262,436	1,221,178	0	320,000	8,779,007	1,800,000	5,142,251	$ 17,262,437	$0
2029	15,810,128	4,596,983	$ 20,407,111	1,670,702	0	320,000	10,492,514	1,367,725	6,556,170	$ 20,407,111	($1)
2030	19,481,675	4,596,983	$ 24,078,658	2,023,025	-	320,000	9,075,312	1,800,000	10,860,321	$ 24,078,658	($0)
2031	16,148,828	4,596,983	$ 20,745,811	1,958,738	-	320,000	10,358,335	1,810,287	6,298,451	$ 20,745,812	$1
2032	6,736,327	4,596,983	$ 11,333,310	2,372,960	1	320,000	4,591,070	-	4,049,280	$ 11,333,311	$0
2033	39,367,390	4,596,983	$ 43,964,372	3,177,292	0	320,000	16,752,114	2,221,988	21,492,981	$ 43,964,376	$3
2034	22,221,606	4,596,983	$ 26,818,589	3,070,976	3	320,000	9,274,264	1,800,000	12,353,347	$ 26,818,590	$1
2035	19,157,030	4,596,983	$ 23,754,013	3,900,609	1	320,000	7,793,257	1,800,000	9,940,147	$ 23,754,014	$1
2036	24,465,870	4,596,983	$ 29,062,853	5,071,307	2	320,000	18,592,902	1,800,000	3,278,643	$ 29,062,854	$1
2037	12,188,937	4,596,983	$ 16,785,920	6,549,389	1	320,000	7,606,836	1,721,200	588,494	$ 16,785,920	$1
	$ 391,670,061	**$ 91,939,659**	**$ 483,609,720**							**$ 483,609,728**	

SCENARIO #2- CAPPING ANNUAL AMOUNT FOR ROADS TO AVERAGE OF $9.486 MILL (FIRST 10 YRS TAX LEVY INCREASE OF 1%, NEXT 10 YRS INCREASE OF 1.5%)

	Annual Replacement Costs	100% of Infrastructure Deficit	Total Capital Costs	Annual Tax Levy Allotment (less increase to RF and Incremental increase of Debt payments)	Previous Yr Tax Levy Surplus	Reserves	Reserve Fund (including Federal Gas Tax)	Provincial Funding (OCIF)	Debt	Total Funding	Annual Surplus or (Deficit)
2018	17,066,172	4,596,983	$ 21,663,155	4,226,203	-	320,000	9,329,037	1,163,000	6,624,914	$ 21,663,154	($1)
2019	16,573,103	4,596,983	$ 21,170,086	4,270,775	-	320,000	7,009,943	1,800,000	7,769,368	$ 21,170,086	($0)
2020	14,705,214	4,596,983	$ 19,302,197	4,231,107	-	320,000	4,998,628	1,800,000	7,952,460	$ 19,302,195	($2)
2021	14,047,000	4,596,983	$ 18,643,983	4,195,971	-	320,000	5,268,234	1,800,000	7,059,778	$ 18,643,983	($0)
2022	16,261,107	4,596,983	$ 20,858,090	4,238,300	-	320,000	11,882,273	1,800,000	2,617,488	$ 20,858,061	($29)
2023	17,776,451	4,596,983	$ 22,373,434	4,464,465	-	320,000	7,732,588	1,800,000	8,056,381	$ 22,373,434	($0)
2024	18,661,699	4,596,983	$ 23,258,682	4,456,937	-	320,000	7,342,258	1,800,000	9,339,488	$ 23,258,683	$1
2025	17,144,956	4,596,983	$ 21,741,939	4,355,156	1	320,000	11,054,022	1,800,000	4,212,760	$ 21,741,939	($0)
2026	22,026,836	4,596,983	$ 26,623,819	4,685,400	-	320,000	12,179,310	1,800,000	7,639,108	$ 26,623,818	($1)
2027	18,125,145	4,596,983	$ 22,722,128	4,907,834	-	320,000	9,934,049	1,800,000	5,760,246	$ 22,722,129	$1
2028	18,365,421	4,596,983	$ 22,962,404	5,088,905	1	320,000	8,477,947	1,800,000	7,275,550	$ 22,962,403	($1)
2029	21,934,668	4,596,983	$ 26,531,650	5,370,407	-	320,000	8,751,996	1,800,000	10,289,247	$ 26,531,650	($0)
2030	24,801,666	4,596,983	$ 29,398,648	5,427,320	-	320,000	10,207,087	1,800,000	11,644,243	$ 29,398,650	$2
2031	20,026,066	4,596,983	$ 24,623,048	5,297,218	2	330,286	8,188,688	1,800,000	9,006,856	$ 24,623,050	$1
2032	15,339,689	4,596,983	$ 19,936,672	5,495,863	1	320,000	3,491,520	1,800,000	8,829,288	$ 19,936,672	($0)
2033	27,638,687	4,596,983	$ 32,235,670	5,913,341	-	320,000	14,710,340	1,800,000	9,491,992	$ 32,235,673	$3
2034	19,092,739	4,596,983	$ 23,689,722	6,632,495	3	320,000	8,378,588	1,800,000	6,558,636	$ 23,689,723	$1
2035	24,301,148	4,596,983	$ 28,898,131	7,593,013	1	320,000	9,558,464	1,800,000	9,626,655	$ 28,898,133	$2
2036	28,086,050	4,596,983	$ 32,683,033	8,444,801	2	320,000	10,301,894	1,800,000	11,816,337	$ 32,683,034	$1
2037	19,696,243	4,596,983	$ 24,293,226	9,044,416	1	320,000	4,792,388	1,800,001	8,336,420	$ 24,293,226	($0)
	$ 391,670,061	**$ 91,939,659**	**$ 483,609,720**							**$ 483,609,695**	

SCENARIO #3 - FIRST 10 YRS TAX LEVY INCREASE OF 2%, NEXT 10 YRS INCREASE OF 1%

	Annual Replacement Costs	100% of Infrastructure Deficit	Total Capital Costs	Annual Tax Levy Allotment (less increase to RF and Incremental increase of Debt payments)	Previous Yr Tax Levy Surplus	Reserves	Reserve Fund (including Federal Gas Tax)	Provincial Funding (OCIF)	Debt	Total Funding	Annual Surplus or (Deficit)
2018	18,731,069	4,596,983	$ 23,328,052	4,787,203	-	320,000	9,329,037	1,163,000	7,728,810	$ 23,328,050	($1)
2019	20,660,242	4,596,983	$ 25,257,225	5,316,198	-	320,000	7,009,943	1,800,000	10,811,084	$ 25,257,225	($0)
2020	18,449,323	4,596,983	$ 23,046,306	5,617,918	-	320,000	4,998,628	1,800,000	10,309,756	$ 23,046,303	($3)
2021	15,772,940	4,596,983	$ 20,369,923	5,990,485	-	320,000	5,268,234	1,800,000	6,991,204	$ 20,369,923	($0)
2022	23,393,994	4,596,983	$ 27,990,977	6,646,819	-	445,000	12,386,256	1,800,000	6,712,902	$ 27,990,977	$0
2023	24,122,643	4,596,983	$ 28,719,626	7,148,737	0	320,000	7,732,588	1,800,000	11,718,300	$ 28,719,625	($1)
2024	28,259,870	4,596,983	$ 32,856,853	7,479,439	-	320,000	7,342,258	1,800,000	15,915,156	$ 32,856,853	$0
2025	22,154,611	4,596,983	$ 26,751,594	7,501,005	0	320,000	11,054,022	1,800,000	6,076,566	$ 26,751,593	($1)
2026	19,744,494	4,596,983	$ 24,341,477	8,340,418	-	320,000	11,875,753	1,800,000	2,005,306	$ 24,341,477	$1
2027	12,137,631	4,596,983	$ 16,734,614	9,530,836	1	320,000	6,723,527	160,251	-	$ 16,734,614	$1
2028	12,665,454	4,596,983	$ 17,262,436	9,891,336	1	320,000	4,750,449	774,061	1,526,588	$ 17,262,436	($1)
2029	15,810,128	4,596,983	$ 20,407,111	10,339,630	-	320,000	8,379,757	1,367,725	-	$ 20,407,111	$0
2030	19,481,675	4,596,983	$ 24,078,658	10,921,766	0	320,000	8,492,601	668,226	3,676,066	$ 24,078,659	$1
2031	16,148,828	4,596,983	$ 20,745,811	11,131,819	1	320,000	7,483,704	1,810,287	-	$ 20,745,811	$0
2032	6,736,327	4,596,983	$ 11,333,310	11,740,955	0	320,000	1,264,710	-	-	$ 13,325,665	$1,992,355
2033	39,367,390	4,596,983	$ 43,964,372	12,554,416	1,992,355	320,000	21,624,091	6,019,450	1,454,063	$ 43,964,375	$2
2034	22,221,606	4,596,983	$ 26,818,589	13,678,622	2	320,000	8,781,543	1,800,000	2,238,424	$ 26,818,591	$1
2035	19,157,030	4,596,983	$ 23,754,013	14,901,626	1	320,000	6,732,387	1,800,000	-	$ 23,754,014	$2
2036	24,465,870	4,596,983	$ 29,062,853	16,376,949	2	320,000	10,565,904	1,800,000	-	$ 29,062,854	$1
2037	12,188,937	4,596,983	$ 16,785,920	17,610,683	1	320,000	433,856	458,800	-	$ 18,823,340	$2,037,420
	$ 391,670,061	**$ 91,939,659**	**$ 483,609,720**							**$ 487,639,497**	

6.5.3 Debt

The Municipality's debt capacity is governed by regulation 403/02 of the Municipal Act, with limits calculated by the Ministry of Municipal Affairs. Using the 2017 calculations, the Municipality of Clarington has the debt capacity to have annual repayment limits of $14,189,353 with a total principal balance of $147,280,635 based on a 15 year term at a 5% interest rate.

Currently, the Municipality has outstanding debt of $17,029,533 which equates to 11% of the total debt capacity that is available to the Municipality. The proposed AMP debt for Scenario 3, at the highest year is 40% of the total debt capacity.

The proposed debt requirement consists of Recreation Facilities, Fire Fleet replacements and various road and bridge rehabilitations. The AMP's financial strategy for funding the annual replacement requirements involved issuing debt for large capital projects to deter from having large annual funding deficits that would create another infrastructure deficit.

The three (3) scenarios result in varying debt requirements. Scenario 1 has a peak debt outstanding of $81 million in year 2027, Scenario 2 has a $66 million debt outstanding at the end of the 20 year forecast. Scenario 3 requires the least amount of debt overall, with a peak in 2026 of $59 million.

See attached chart for debt outstanding for the three (3) scenarios.

		Scenario #1			Scenario #2			Scenario #3		
	Current Debt Outstanding	New Debt Added	New Annual Debt Payments	Total Debt Outstanding	New Debt Added	New Annual Debt Payments	Total Debt Outstanding	New Debt Added	New Annual Debt Payments	Total Debt Outstanding
2016	17,029,533	-		$17,029,533			$17,029,533			$ 17,029,533
2017	14,803,490	2,300,000		$17,103,490	2,300,000		$17,103,490	2,300,000		$ 17,103,490
2018	12,102,900	8,289,812	182,927	$14,265,829	6,624,914	182,927	$14,265,829	7,728,810	182,927	$ 14,265,829
2019	9,840,715	11,988,921	842,990	$19,934,165	7,769,368	710,575	$18,368,488	10,811,084	798,372	$ 19,406,597
2020	7,640,699	12,165,119	1,797,459	$28,092,631	7,952,460	1,328,908	$22,659,772	10,309,756	1,658,981	$ 26,491,419
2021	5,918,600	9,589,425	2,763,087	$36,439,927	7,059,778	1,959,381	$27,402,101	6,991,204	2,477,089	$ 33,199,310
2022	4,282,600	10,124,841	3,522,715	$41,703,154	2,617,488	2,519,296	$30,900,064	6,712,902	3,030,244	$ 36,237,556
2023	3,628,600	16,020,759	4,325,708	$47,847,903	8,056,381	2,707,521	$30,776,673	11,718,300	3,562,105	$ 39,551,325
2024	2,956,600	21,191,306	5,600,474	$58,870,476	9,339,488	3,346,826	$35,566,829	15,915,156	4,494,957	$ 47,115,885
2025	2,427,600	12,416,415	7,287,019	$73,882,716	4,212,760	4,093,020	$41,186,331	6,076,566	5,762,216	$ 58,021,458
2026	1,882,600	9,616,899	8,270,931	$79,287,684	7,639,108	4,425,077	$41,368,257	2,005,306	6,242,405	$ 58,648,920
2027	1,321,600	4,151,035	9,025,947	$81,217,951	5,760,246	5,027,642	$44,456,206	-	6,392,881	$ 55,004,009
2028	743,600	5,142,251	9,355,799	$77,307,285	7,275,550	5,488,072	$45,238,674	1,526,588	6,393,381	$ 49,253,740
2029	150,000	6,556,170	9,764,605	$73,942,014	10,289,247	6,064,899	$47,015,088	-	6,517,307	$ 44,830,880
2030	76,000	10,860,321	10,287,778	$71,978,833	11,644,243	6,883,483	$51,625,633	3,676,066	6,518,836	$ 39,299,886
2031		6,298,451	11,145,072	$73,520,785	9,006,856	7,806,592	$56,797,819	-	6,804,120	$ 37,122,192
2032		4,049,280	11,636,717	$70,033,083	8,829,288	8,513,813	$58,763,651	-	6,797,228	$ 31,230,468
2033		21,492,981	11,766,469	$64,050,203	9,491,992	9,030,420	$60,078,254	1,454,063	6,608,156	$ 25,397,082
2034		12,353,347	12,820,450	$74,675,262	6,558,636	9,258,931	$61,871,699	2,238,424	6,115,728	$ 21,403,728
2035		9,940,147	12,857,436	$76,147,045	9,626,655	9,165,032	$60,808,761	-	5,437,136	$ 18,788,768
2036		3,278,643	12,672,690	$75,366,422	11,816,337	9,299,196	$62,725,059	-	4,619,115	$ 14,637,461
2037		588,494	12,161,226	$68,282,662	8,336,420	9,666,199	$66,226,255	-	4,055,828	$ 10,948,517
		198,414,621			162,207,218			89,464,228		

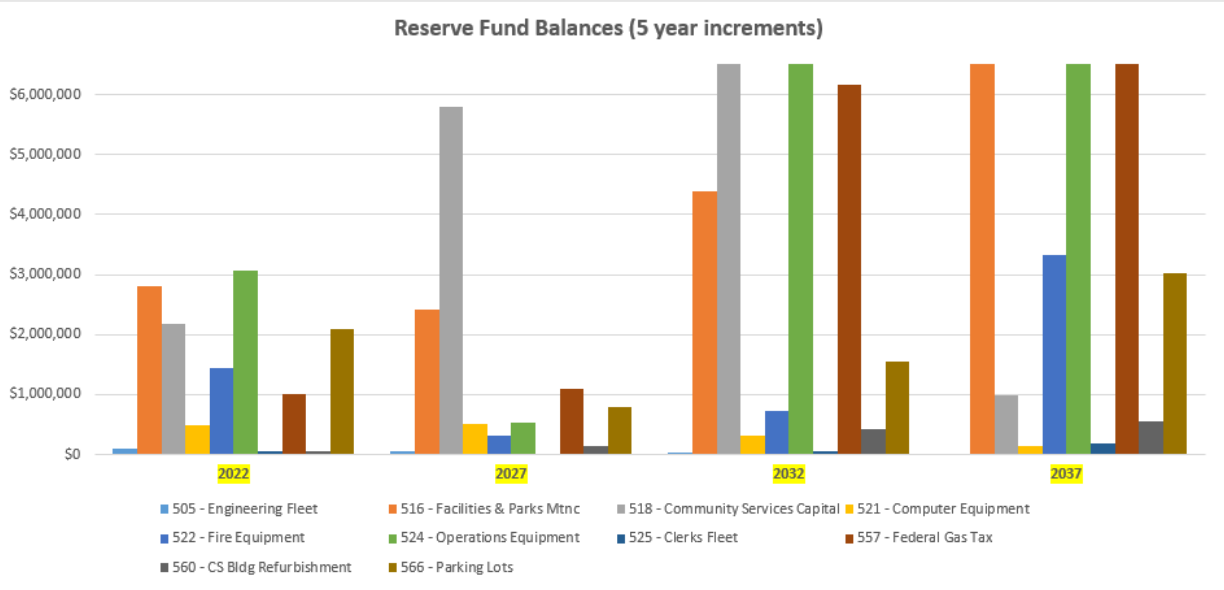
** Maxium Peak Debt Amount

6.5.4 Reserve Funds

The financing strategy of the Asset Management Plan utilizes 11 Reserve Funds to fully fund both the accumulated infrastructure deficit and the annual replacement requirements. The overall increase in annual capital funding required has significantly increased many of the Reserve Funds annual transfers from Tax Levy for capital expenditures.

The AMP acknowledges that at times, some Reserve Funds will fall into a negative balance. This forecast is using assumptions that the full replacement cost will be required and hasn't calculated any unused funds being transferred back to the Reserve Fund. Another consideration is that the capital projects are being fully funded in the year that they are required for replacement, but at times, projects can span several years. The AMP also only included known provincial and federal funding programs, whereas, future programs have the potential to alleviate financial stress on the Reserve Funds.

Reserve Fund	Current Annual Contribution from Tax Levy	Proposed Annual Increase in Cont`b from Tax Levy (AVG.)	Total Annual Contribution	Percentage Increase
505 - Engineering Fleet	5,000	1,000	6,000	20%
516 - Facilities & Parks Mtnc	330,000	800,000	1,130,000	242%
518 - Community Services Capital	300,000	850,000	1,150,000	283%
521 - Computer Equipment	100,000	-	100,000	
522 - Fire Equipment	350,000	600,000	950,000	171%
524 - Operations Equipment	350,000	1,050,000	1,400,000	300%
525 - Clerks Fleet	5,000	23,750	28,750	475%
557 - Federal Gas Tax	2,700,000	-	2,700,000	
560 - CS Bldg Refurbishment	85,000	-	85,000	
566 - Parking Lots	310,000	-	310,000	
	$ 4,535,000	**$ 3,324,750**	**$ 7,859,750**	



6.6 Financial Strategy Conclusion

The infrastructure deficit is a priority in this Asset Management Plan. The plan sets out three (3) scenarios in funding the backlog of $91.9 million either over the next 20 years. All scenarios are viable with changes to the current budget allotments for capital financing.

An increase in tax levy is an expected option to increase funding to Capital and this plan forecasted an annual tax levy increase of 2% to 1% depending on the scenario. Providing additional funding from Reserve Funds to decrease the annual deficit is a viable option that requires an increase in the transfer of funds from the tax levy to the Reserve Funds. A review of current retained balances in the Reserve Funds, determined that the Municipality has the capacity to increase the balance maintained in the Reserve Funds and provide additional funding for capital expenditures.

The AMP utilizes debt financing or debentures as a crucial funding source to maintain our asset inventory. The Municipality's debt capacity has enough room to aid in our asset management and keep the Municipality from increasing the infrastructure deficit. Increasing projected tax levy contributions to capital beyond the 2% would ultimately reduce projected debt financing.

6.7 Recommendation

All scenarios presented for Council to consider require utilizing debt to fill the funding gap. Scenario 3 results in the lowest amount of new debt while still funding all forecasted asset replacements. The other deciding factor is the utilization of the tax levy support to Capital. It is recommended that Council select Scenario 3 which spreads the infrastructure deficit over 20 years to allow more flexibility with the tax levy support for capital projects pertaining to growth. This is preferred as the assumptions herein dedicate tax levy support to AMP projects. Once an additional AMP is commenced for growth related projects, non-growth shares would have to be financed so some flexibility may be required.

In any scenario, a shift from tax levy support to capital across to tax levy contributions to reserve funds is necessary to address fluctuating capital requirements from one (1) year to the next to result in no infrastructure deficit at the end of the 20 year forecast period. The Municipality will also need to utilize the debt capacity as a financing tool to ensure capital projects will be undertaken when required.

Asset Replacement Backlog Prior to 2018
Municipality of Clarington
Appendix A-1

	Backlog
Bridges & Culverts	
Bridge - Rehab	
094003 - West Beach Rd	267,550
098059 - Conc Rd 1	137,700
098077 - Mill Pond Rd	90,714
098095 - Conc Rd 8	96,283
098097 - Conc Rd 8	82,758
099031 - Conc Rd 6	148,892
099033 - Conc Rd 6	192,244
099041 - Conc Rd 7	151,487
099087 - Middle Rd	186,935
099095 - Conc Rd 6	114,072
099115 - Bethesda Rd	199,524
Bridge - Replace	
098015 - Pollard Rd	628,984
098021 - Stapleton Rd	573,690
098023 - Hwy #2	534,606
098045 - Holt Rd	587,911
098047 - Shiloh Rd	486,323
098061 - Given Rd	478,920
098073 - Reg Rd 18	324,916
098089 - Reg Rd 9	378,768
098530 - Dundee Cres	334,839
099045 - Leskard Rd	526,700
099077 - Nash Rd	438,239
099083 - Nash Rd	266,390
099101 - Werry Rd	617,647
099516 - Taunton Rd	246,748
099517 - Liberty St	246,748
099521 - Langmaid Rd	239,488
099534 - Middle Rd	453,554
Culvert - Rehab	
093505 - Mill St	85,313
095001 - Orono Creek	112,548
095504 - North Mill Lane	98,475
098079 - Lawrence Rd	189,800
098093 - Leskard Rd	96,712
098101 - Mercer Rd	85,370
098544 - Best Rd	50,822
099065 - Green Rd	112,255
Culvert - Replace	
091501 - Hill St	177,255
093504 - North St	222,300
094010 - Reg Rd 57	401,465
095502 - Princess St	240,500
098081 - Patterson Rd	426,354
098501 - Lakeshore Rd	315,575
098503 - Lakeshore Rd	266,760
099059 - Baseline Rd	399,750
099129 - Ormiston Rd	395,119
099503 - Maple Grove Rd	184,665
099512 - Conc Rd 3	249,600
099529 - Conc Rd 7	218,156
Bridges & Culverts Total	**13,361,424**
Buildings	
33 Lake Road - Maint. Building	
349 - 33 Lake Road Maintenance Building Structure	6,347
Alan Strike Aquatic and Squash Centre	
426 - Alan Strike Centre Roof 101	110,508
427 - Alan Strike Centre Roof 102	39,929
428 - Alan Strike Centre Roof 103	26,983
429 - Alan Strike Centre Roof 201	21,680
430 - Alan Strike Centre Roof 202	6,707
431 - Allan Strike Centre Indoor Pool	404,436
Animal Services Building	
343 - Animal Services Building Roof	62,820
Bowmanville Cemetery Building	
346 - Bowmanville Cemetery Building Roof	14,867
Brownsdale Community Centre	
172 - Brownsdale Community Centre Roof	56,320
Clarington Beech Centre	
192 - Clarington Beech Centre Roof 101	46,347
193 - Clarington Beech Centre Roof 201	15,454
194 - Clarington Beech Centre Roof 301	58,013
195 - Clarington Beech Centre Roof 401	44,382
196 - Clarington Beech Centre Roof 402	19,417
197 - Clarington Beech Centre Roof 501	5,548
202 - Clarington Beech Centre Roof 702	6,492

BUILDINGS Continued'	Backlog
203 - Clarington Beech Centre Roof 703	16,228
Clarington Museum-37 Silver St.	
183 - Clarington Museum-37 Silver St. Structure	73,901
186 - Clarington Museum-37 Silver St. Roof 301	19,630
189 - Clarington Museum-37 Silver St. Roof 403	9,396
190 - Clarington Museum-37 Silver St. Roof 404	1,346
Clarke Museum	
265 - Clarke Museum Roof 201	16,205
Darlington Sports Centre	
385 - Darlington Sports Centre Interior	105,299
387 - Darlington Sports Centre 1975 Mechanical To Interior	120,920
6430 - DSC - Olympia room Heater	4,647
6439 - DSC - Rheem ruud water heater	6,040
Fire Station #1 - Bowmanville	
6534 - Unit Heaters in Bay	5,186
6535 - Unit Heaters in Bay	5,186
Hampton Community Hall	
206 - Hampton Community Hall Structure	106,134
Hampton Operations Depot	
317 - Hampton Operations Depot Roof 101	59,950
318 - Hampton Operations Depot Roof 102	91,920
319 - Hampton Operations Depot Roof 201	39,171
320 - Hampton Operations Depot Roof 202	11,722
321 - Hampton Operations Depot Roof 301	2,740
322 - Hampton Operations Depot Roof 401	20,141
323 - Hampton Operations Depot Quonset Hut (Storage)	289,367
324 - Hampton Operations Depot Sign Shed	45,590
325 - Hampton Operations Depot Sand Dome	327,047
327 - Hampton Operations Depot Salt Shed	82,207
Memorial Park Clubhouse	
218 - Memorial Park Clubhouse Structure	128,509
220 - Memorial Park Clubhouse Roof 201	47,225
221 - Memorial Park Clubhouse Roof 301	4,875
Municipal Admin Building	
101 - MAC Building - 1988 Addition Roof 401	74,364
102 - MAC Building - 1988 Addition Roof 402	8,986
115 - MAC Building - Original 1903 Structure	8,538
117 - MAC Building Admin - 1988 Interior	756,433
122 - MAC Building - Council Chambers Renovation	55,448
6789 - MAC - Chilled water pump #1 - 2 HP	2,065
6790 - MAC - Chilled water pump #2 - 2 HP	2,065
6791 - MAC - Heating circulation pump#1 - 1.5 HP	2,065
6792 - MAC - Heating circulation pump#2 - 1.5 HP	2,065
6802 - MAC - Elevator #1	108,472
6804 - MAC - 1988 Electrical	496,158
6806 - MAC - 1988 Mechanical to Interior	860,075
Newcastle Arena	
142 - Newcastle Arena Interior	179,276
144 - Newcastle Arena Ice Rink	1,764,700
Newcastle Community Hall	
155 - Newcastle Community Hall Structure	816,965
156 - Newcastle Community Hall Roof 101	2,389
157 - Newcastle Community Hall Roof 201	50,058
158 - Newcastle Community Hall Roof 301	89,853
159 - Newcastle Community Hall Roof 401	1,982
160 - Newcastle Community Hall Roof 501	14,942
161 - Newcastle Community Hall Roof 502	4,990
162 - Newcastle Community Hall Interior	770,506
Newtonville Community Hall	
223 - Newtonville Community Hall Structure	38,718
224 - Newtonville Community Hall Roof 101	23,728
Operations Yard # 42	
339 - Operations Yard # 42 Roof 101	46,666
Orono Arena	
129 - Orono Arena Interior	169,686
131 - Orono Arena Ice Rink	1,567,360
Orono Library	
271 - Orono Library Roof 101	1,006
272 - Orono Library Roof 201	16,591
273 - Orono Library Roof 202	3,770
274 - Orono Library Roof 301	7,905
275 - Orono Library Roof 401	1,822
276 - Orono Library Roof 402	314
277 - Orono Library Roof 403	967
278 - Orono Library Roof 404	250
279 - Orono Library Roof 405	527
280 - Orono Library Roof 406	617
281 - Orono Library Roof 407	440

Asset Replacement Backlog Prior to 2018
Municipality of Clarington
Appendix A-1

	Backlog
Orono Operations Depot	
329 - Orono Operations Depot Structure	145,691
332 - Orono Operations Depot Storage Shed	65,759
333 - Orono Operations Depot Storage Shed	45,590
335 - Orono Operations Depot Sand Dome	283,831
Orono Town Hall	
227 - Orono Town Hall Structure	45,492
Rickard Recreational Complex	
357 - Rickard Recreational Complex Roof 301	112,309
358 - Rickard Recreational Complex Roof 302	112,309
360 - Rickard Recreational Complex Roof 801	17,777
361 - Rickard Recreational Complex Roof 802	17,777
364 - Rickard Recreational Complex Roof 1103	40,015
370 - Rickard Recreational Complex Interior	425,553
6746 - RRC - Make Up Air Unit - Pad B #1	20,783
6754 - Pressure Tank	4,156
6758 - RRC - Brine Pump Pad B	36,372
6759 - RRC - Brine Pump Warm Pad B	36,372
6760 - RRC - Condenser Pump	15,587
6761 - RRC - Glycol Pump	15,587
52934 - RRC - Compressor #1	30,993
52935 - RRC - Compressor #1 Motor 75hp	30,993
52936 - RRC - Compressor # 2	30,993
52937 - RRC - Compressor #2 motor 75 h/p	30,993
52938 - RRC - Brine Pump Pad A	36,157
52939 - RRC - Brine Pump Warm Pad A	36,157
52940 - RRC - Plate Chiller	61,984
52941 - RRC - Dehumidification Unit #3	30,993
52942 - RRC - Dehumidification Unit #4	30,993
52945 - RRC 1988 - Interior	272,775
Sarah Jane Williams Heritage Centre	
173 - Sarah Jane Williams Heritage Centre Structure	319,067
Solina Hall	
234 - Solina Hall Structure	111,886
238 - Solina Hall Elevator (Betterment)	93,227
South Courtice Arena	
6378 - SCA - Fan Coil Unit #1	4,165
6379 - SCA - Fan Coil Unit #2	4,165
6384 - SCA - Boiler Pump #1	1,562
6385 - SCA - Boiler Pump #2	1,562
6386 - SCA - Boiler Pump #3	1,562
6387 - SCA - Boiler Pump #4	1,562
6388 - SCA - Boiler Pump #5	1,562
6389 - SCA - Boiler Pump #6	1,562
6390 - SCA - Boiler Pump #7	1,562
6391 - SCA - Boiler Pump #8	1,562
6392 - SCA - Fractional hp Pump #1	1,562
6393 - SCA - Fractional hp Pump #2	1,562
6394 - SCA - Fractional hp Pump #3	1,562
6395 - SCA - Fractional hp Pump #4	1,562
6396 - SCA - Fractional hp Pump #5	1,562
Tourism Information Office	
260 - Tourism Information Office Roof 101	12,477
261 - Tourism Information Office Roof 201	1,337
Tyrone Community Hall	
240 - Tyrone Community Hall Roof 101	58,111
241 - Tyrone Community Hall Roof 201	23,467
Visual Art Centre	
252 - Visual Art Centre Roof 101	10,869
253 - Visual Art Centre Roof 201	8,301
254 - Visual Art Centre Roof 202	8,301
255 - Visual Art Centre Roof 301	17,055
256 - Visual Art Centre Roof 401	3,397
Buildings Total	**13,269,716**
Parks	
Court	
1549 - Lord Elgin Tennis Courts	69,947
1552 - Solina Park Tennis Courts	65,043
1570 - Soper Creek Basketball Court	25,353
1573 - Tyrone Park Basketball Court	27,936
1575 - Andrew Street Parkette Basketball Court	10,714
1577 - Solina Park Basketball Court	4,485
Playground Equipment	
1735 - Baseline Park Playground	17,478
1743 - Darlington Hydro Fields Playground	32,743
1744 - Edward Park Playground	17,478
1753 - Harvey Jackson (Kendal Park) Playground	17,478
1754 - Haydon Hall Parkette	17,478
1756 - Ina Brown Tot Park	17,478
1761 - Mearns Park Playground	17,478
1763 - Orono Park Playground	32,743
1771 - Rosswell Park (Robinson Ridge) Playground	32,743
1772 - Solina Park Playground	32,743
1775 - Tyrone Park Playground	32,743
1779 - Whitecliff Parkette Tot Park	17,478
Playground Equipment-Water	
1788 - Glenabby Parkette Water/Splash Pad	95,887
Structures	
1673 - Highland Gardens	25,410
1677 - Burketon Park	27,226
1682 - Orono Park	27,226
1683 - Mearns Park	27,323
1684 - Foxhunt Parkette	26,874
1687 - Penfound Park	24,613
Trails & Paths	
1836 - Andrew Street Parkette Trail	8,658
1842 - Bowmanville Memorial Park Trail	3,672
1849 - Cherry Blossom Parkette Trail	8,181
1853 - Edward Park Trail	12,543
1855 - Elliot Park Trail	17,906
1856 - Firwood Park Trail	12,437
1857 - Foster Creek Parkette Trail	33,488
1858 - Foxhunt Parkette Trail	10,831
1859 - Gate House Parkette Trail	12,148
1861 - Glenabbey Parkette Trail	20,031
1863 - Highland Gardens Park Trail	12,024
1866 - Longworth Park Trail	31,220
1867 - Lord Elgin Park Trail	8,860
1868 - Mearns Park Trail	16,430
1869 - Moyse Parkette Trail	14,271
1872 - Penfound Park Trail	22,523
1873 - Peters Pike Parkette Trail	3,516
1875 - Rhonda Park Trail	13,547
1876 - Rickard Community Centre Trail	14,418
1885 - Stuart Park Trail	24,975
1891 - Westview Parkette Trail	10,967
1892 - Whitecliff Parkette Trail	4,934
Parks-Miscellaneous	
1804 - Orono Outdoor Pool	224,917
1805 - Bowmanville Boat Launch	19,425
1808 - Bondhead Boat Launch	16,008
Parks Total	**1,322,028**
Miscellaneous	
BUNKER SUITS	
1462 - 2008 Pooled Bunker Gear	32,455
COMMUNICATIONS	
1489 - Phone Equip/Software - Voice Over Internet Protocol	32,851
1493 - Wireless Radios - Animal Services Radios x 2	21,030
1494 - Wireless Radios - Courtice Community Centre Radios x 2	27,790
1495 - Wireless Radios - Courtice Fitness Centre Radios x 2	21,030
1496 - Wireless Radios - Depot 42 Radios x 2	36,287
1497 - Wireless Radios - Hampton Radios x 2	47,399
1498 - Wireless Radios - Hampton to CCC Radios x 2	21,030
1499 - Wireless Radios - Newcastle Rec Centre Radios x 2	36,287
1500 - Wireless Radios - Rickard Rec Complex Radios x 2	21,030
1501 - Wireless Radios - South Courtice Radios x 2	21,030
COMMUNICATIONS-FIRE	
1503 - Dispatch Recording Device	32,692
1504 - Wireless Radios - Courtice Fire Hall Station 4 Radios x 2	36,287
1505 - Wireless Radios - Fire Head Quarters Radios x 2	36,287
COMPUTER HARDWARE	
1414 - 2011 Pooled Computer Hardware - CPU's	37,913
1419 - 2011 Pooled Computer Hardware - Monitors	4,646
1424 - 2011 Pooled Computer Hardware - Server	8,299
1429 - 2011 Pooled Computer Hardware - Miscellaneous	30,812
EQUIPMENT	
1469 - RRC - Walk Behind Floor Scrubber	9,964
1471 - NRC - Ride-on Floor Scrubber	12,144
1482 - Modis Diagnostic Scanner	16,422
1484 - MTR2000 Two-way Radio Repeater	16,979
1485 - Winslow Gerolamy Diagnostic Laptop & Software	10,296
1486 - Clerks FPI - Folder Inserter Fpi 2025	15,387
PARKING METERS	
1527 - Central Meter Bowmanville Boat Launch	10,788
MISCELLANEOUS ASSETS	
1545 - EMS - Security Cameras	12,426
Miscellaneous Total	**609,561**

Asset Replacement Backlog Prior to 2018
Municipality of Clarington
Appendix A-1

	Backlog
Fleet	
Attachments	
628 - 2002 Horst 4000-10 Snow Blade Plow	11,256
629 - 2002 Sweeper Broom	18,800
Cars and Vans	
668 - 2009 CHEV HHR CAR 12	25,606
691 - 2001 CHEV AST VAN	36,839
702 - 2005 PONTIAC PUR CAR	26,060
723 - 2009 CHEV EXP CARGO VAN	30,900
728 - 2009 DODGE DAKOTA TRUCK	28,502
Heavy Duty Trucks	
661 - 2006 FORD F550 DRW SCAT 1	165,609
687 - 2000 INTL 20S DUMP TRUCK	208,254
689 - 2000 VOLVO WG64 TANDEM	219,376
690 - 2000 VOLVO WG64 TANDEM	219,376
692 - 2001 VOLVO VHD TANDEM	220,568
693 - 2002 INTL 20S TRUCK	203,113
695 - 2003 INTL 40S 3 TON Forestry Truck	218,354
697 - 2004 INTL 70S TANDEM	318,258
698 - 2004 INTL 70S TANDEM	134,789
699 - 2004 STERLING STE TRUCK	206,381
700 - 2005 FORD DRW 2 TON	69,642
701 - 2005 INTL 70S TANDEM	223,620
705 - 2006 STERLING Y11 TRUCK	218,476
Light Duty Trucks	
688 - 2000 PACE CS8 SKATEBOARD PARK	45,295
707 - 2007 DODGE RPC 1/2 TON - CREW CAB	32,785
708 - 2007 DODGE RPC 3/4 TON - CREW CAB	36,195
712 - 2007 GMC SIE 3/4 TON 4X4 c/w S&P	66,000
730 - 2009 DODGE RPC 1/2 TON	38,047
731 - 2009 DODGE RPC 1/2 TON	38,047
Medium Duty Trucks	
659 - 2005 CHEV UTILITY 1 SIL	71,561
694 - 2003 CHEV C45 2 -TON	57,559
706 - 2007 DODGE RPC 1 TON - 4X4	33,769
709 - 2007 FORD CTV 1 TON VAN	65,497
Pumpers	
652 - 2003 FRHT PUMPER 2 MCV	772,558
653 - 2003 FRHT PUMPER 5 MCV	772,558
658 - 2004 SPAR PUMPER 4 GA4	757,410
660 - 2005 FRHT PUMPER 44 FM2	772,558
674 - Betterment - add hurst tool 2006	43,642
675 - Betterment - add hurst tool 2005	35,653
676 - Betterment - add hurst tool 2005	51,669
Tankers	
649 - 1999 GMC TANKER 4 CSR	268,325
Tractors/Mowers/ATV's	
655 - 2003 POLARIS 500 ATV - RANGER	14,279
775 - 1992 MOWER - John Deere	25,555
782 - 2003 NEW HOLLAND TC33D TRACTOR	30,037
783 - 2003 NEW HOLLAND TC33D TRACTOR	31,926
788 - 2005 JD 6320 TRACTOR	152,347
Trailers	
651 - 2003 CONT ATV TRAILER CC8	10,743
654 - 2003 NORTHLANDER TRAILER	54,246
713 - 2007 J&J LD2 TRAILER	10,311
714 - 2007 J&J LD2 TRAILER	10,311
Unlicensed Fleet Equipment	
776 - 1992 TOP DRESSER - Ty-Crop	25,612
Fleet Total	**7,128,275**
Roads and Roadside	
Roads - Surface	
59247 - Scugog Boundary Rd	54,000
91001 - Jones Av	45,375
91003 - Rose Cr	25,410
91005 - Hill St	145,200
91007 - Church Ln	36,366
91011 - Paynes Cr	117,810
92003 - Turnberry Cr	171,105
92008 - Darlington Park Rd	419,688
92011 - Pinedale Cr	199,155
92016 - South Service Rd	300,294
92017 - Fox Hunt Tr	232,815
92025 - Darlington Blvd	163,614
92026 - Baseline Rd	273,402
92044 - Nash Rd	132,000
92045 - Sandringham Dr	181,500
92046 - Sandringham Dr	188,100
94361 - Haines St	55,800

	Backlog
ROADS Continued '	
92071 - Yorkville Dr	157,080
92098 - - Robert Adams Dr	68,904
92103 - Varcoe Rd	178,200
92105 - Old Varcoe Rd	85,800
92135 - Centerfield Dr	78,540
92138 - - Centerfield Dr	71,879
92141 - Birchfield Dr	56,100
92154 - - Robert Adams Dr	53,244
92193 - Glenview Rd	22,143
92195 - Lynwood Av	50,325
92262 - West Townline Rd	48,600
92266 - West Townline Rd	181,104
92267 - Townline Rd S	145,530
92268 - West Townline Rd	18,117
92270 - West Townline Rd	80,850
92272 - - WestTownline Rd	64,457
92306 - Tooley Rd	288,915
92312 - Trulls Rd	166,530
92340 - Solina Rd	66,750
92344 - - Avondale Dr	50,112
92346 - - Avondale Dr	119,016
92350 - Sandringham Dr	141,900
92351 - George Reynolds Dr	138,997
93011 - Allen's Ln	5,610
93013 - George St	23,100
93022 - Andrew St	143,055
93023 - George St	20,592
93047 - Foster Creek Dr	145,860
93048 - - Rudel Rd	90,828
93059 - Hart Blvd	187,935
93071 - James St W	20,460
93079 - Caroline St	19,965
93082 - Caroline St	19,965
93083 - Emily St	19,800
93101 - Farrow Av	66,825
93127 - Metcalf St	108,750
93129 - Queen Victoria St	41,877
93134 - Lakeshore Rd	32,670
93136 - Lakeshore Rd	27,720
93139 - Riley Rd	121,800
94002 - East Beach Rd	28,800
94011 - Lake Rd	184,518
94018 - Watson Cr	11,115
94023 - Cedar Crest Beach Rd	173,052
94034 - - Baseline Rd	66,837
94035 - Caristrap St	68,541
94038 - Concession St E	313,740
94041 - Simpson Av	50,853
94053 - Penfound Rd	143,055
94067 - Waverly Rd	32,340
94074 - Nash Rd	476,280
94080 - Conc Rd 3	268,920
94082 - Conc Rd 3	126,360
94127 - Albert St	22,176
94129 - Albert St	25,740
94135 - Durham St	18,876
94137 - Durham St	19,800
94197 - Wellington St	17,424
94201 - Liberty Pl	23,760
94203 - Alexander Blvd	25,740
94222 - Concession St	177,282
94225 - Odell St	13,200
94227 - Sturrock Rd	20,196
94229 - First St	20,196
94242 - Second St	17,820
94252 - - Concession St	63,893
94254 - - Concession St	68,904
94259 - Jackman Rd	36,300
94261 - Jackman Rd	33,165
94263 - Jackman Rd	39,798
94271 - Sunicrest Blvd	53,064
94285 - Scugog St	132,192
94331 - Prospect St	29,568
94335 - Lambs Ln	30,492
94337 - Lambs Ln	18,513
94339 - Lambs Ln	14,157
94353 - Bernard St	18,480
94359 - Hilltop Dr	36,135
98085 - Conc Rd 3	75,600

Asset Replacement Backlog Prior to 2018
Municipality of Clarington
Appendix A-1

	Backlog
94363 - Haines St	59,400
94368 - - Simpson Ave	81,432
94385 - Parkway Av	65,043
94391 - Flett St	19,305
94408 - Galbraith Ct	185,394
94409 - Frank St	60,225
94424 - - Mearns Ave	140,940
94445 - Barley Mill Cr	143,055
94451 - Souch Ct	22,440
94470 - Aspen Springs Dr	253,605
94471 - Bonnycastle Dr	141,900
94477 - Vail Meadows Cr	165,495
94478 - - Aspen Springs Dr	77,204
94486 - - Bonnycastle Dr	75,168
94501 - King St W	411,246
94504 - Green Rd	142,560
94506 - Green Rd	349,920
94512 - - King St W	56,125
94513 - King St	188,397
94514 - - King St W	52,116
94515 - King St	34,650
94516 - - King St E	82,058
94522 - - Waverly Rd	29,284
94534 - - Concession St	56,376
94605 - Fenwick Av	159,885
94606 - Lambs Rd	253,260
94611 - Elford Dr	173,910
94614 - Lambs Rd	99,900
94715 - Mill Ln	76,230
95009 - Somerville Dr	18,000
95047 - Park St	55,836
95057 - Church St	26,730
95063 - Orono Mill St	148,005
95071 - Pigott Ln	23,760
95075 - Tamblyn Rd	40,500
95077 - Tamblyn Rd	238,140
96004 - Old Scugog Rd	109,395
96005 - Washington St	21,450
96007 - Liberty St	23,760
96009 - Liberty St	25,740
96011 - Millville Av	73,260
96013 - North Division St	61,380
96015 - Ormiston Ln	25,047
96041 - King Ln	54,450
96043 - King Ln	67,155
96045 - King Ln	39,930
97001 - Water St	51,150
97003 - Old Mill St	21,450
97007 - Monck St	66,000
97009 - Kendal Church St	56,265
97011 - Hoy St	16,500
97013 - Hoy St	20,988
97015 - Dickey St	19,008
97017 - Dickey St	12,705
98001 - Lakeshore Rd	118,800
98009 - Lakeshore Rd	75,690
98010 - Lakeshore Rd	72,900
98012 - Lakeshore Rd	72,900
98013 - Lakeshore Rd	80,925
98014 - - Lakeshore Rd	66,504
98015 - Lakeshore Rd	37,620
98016 - - Lakeshore Rd	31,296
98020 - - Lakeshore Rd	48,313
98025 - Conc Rd 1	84,660
98027 - Conc Rd 1	84,660
98031 - Conc Rd 1	84,660
98033 - Conc Rd 1	170,340
98035 - Conc Rd 1	86,700
98045 - Service Rd	470,340
98047 - Lovekin Rd	73,320
98049 - Browview Rd	22,950
98057 - McCullough Rd	30,525
98067 - Conc Rd 3	354,564
98069 - Conc Rd 3	296,676
98079 - Conc Rd 3	81,180
98081 - Conc Rd 3	82,875
98083 - Conc Rd 3	74,700
98411 - Coven Rd	17,400
98415 - Carscadden Rd	169,200
98417 - Carscadden Rd	109,350

	Backlog
98093 - Conc Rd 4	85,800
98099 - Conc Rd 4	47,775
98101 - Conc Rd 4	113,100
98111 - Conc Rd 4	84,825
98113 - Conc Rd 4	81,900
98115 - Conc Rd 4	72,000
98117 - Conc Rd 4	75,600
98119 - Conc Rd 4	76,500
98121 - Conc Rd 4	74,700
98130 - Conc Rd 5	50,445
98135 - Concession 5	138,450
98141 - Conc Rd 5	23,400
98145 - Conc Rd 5	256,200
98149 - Conc Rd 5	77,400
98151 - Conc Rd 5	70,080
98153 - Conc Rd 5	74,100
98155 - Conc Rd 5	80,925
98159 - Conc Rd 6	299,700
98161 - Conc Rd 6	322,704
98163 - Conc Rd 6	88,560
98165 - Conc Rd 6	89,640
98167 - Conc Rd 6	89,640
98169 - Conc Rd 6	74,700
98171 - Conc Rd 6	189,000
98173 - Conc Rd 6	155,775
98175 - Conc Rd 6	88,440
98205 - Conc Rd 8	91,650
98211 - Conc Rd 8	14,400
98215 - Thertell Rd	79,950
98217 - Thertell Rd	162,900
98219 - Skelding Rd	72,900
98231 - Wilcox Rd	86,130
98249 - Lovekin Rd	42,090
98251 - Curve Inn Rd	95,931
98252 - Curve Inn Rd	25,245
98255 - Gibson Rd	70,305
98259 - Brown Rd	21,036
98260 - Brown Rd	184,500
98261 - Cobble-Dick Rd	79,515
98263 - Pollard Rd	181,800
98265 - Pollard Rd	188,100
98271 - Mosport Rd	659,502
98273 - Mosport Rd	35,100
98275 - Mosport Rd	129,600
98281 - Bellwood Dr	222,156
98283 - Lockhart Rd	195,975
98285 - Squair Rd	190,800
98287 - Ochonski Rd	30,975
98288 - Ochonski Rd	70,800
98289 - Ochonski Rd	267,531
98291 - Leskard Rd	756,162
98295 - Leskard Rd	191,700
98303 - Best Rd	211,575
98305 - Best Rd	180,000
98307 - Best Rd	184,500
98315 - Arthur St	498,960
98316 - - Arthur St	21,516
98319 - Tamblyn Rd	51,840
98321 - Moffat Rd	199,980
98322 - Gamsby Rd	195,795
98325 - Lawrence Rd	210,600
98329 - Stephenson Rd	172,062
98331 - Vickers Rd	214,515
98335 - Cooney Rd	176,400
98343 - Golf Course Rd	372,060
98345 - Golf Course Rd	361,800
98347 - Golf Course Rd	183,600
98351 - Jewel Rd	92,700
98353 - Jewel Rd	226,800
98360 - Brownsville Rd	60,300
98363 - Brownsville Rd	98,820
98366 - Walsh Rd	188,955
98375 - Morgans Rd	144,720
98383 - Old Sideroad 16/17	13,500
98385 - Morgans Rd	201,825
98387 - Morgans Rd	100,980
98389 - Morgans Rd	101,970
99435 - Rundle Rd	372,060
99439 - Rundle Rd	201,825
99443 - Rundle Rd	180,900

Asset Replacement Backlog Prior to 2018
Municipality of Clarington
Appendix A-1

	Backlog
98419 - Stapleton Rd	176,460
98420 - - Stapleton Rd	62,044
98421 - Cedar Valley Rd	44,460
98422 - - Stapleton Rd	162,270
98425 - Hillen Rd	26,775
98429 - Bellamy Rd	108,630
98431 - Ovens Rd	48,195
98432 - Reid Rd	144,000
98433 - Reid Rd	97,155
98434 - Reid Rd	146,700
98435 - Reid Rd	218,790
98436 - White Rd	158,400
98441 - Newtonville Rd	279,480
98445 - Thompson Rd	175,500
98447 - The Dell Rd	120,900
98455 - Stewart Rd	196,950
98457 - Mercer Rd	267,150
98467 - Elliot Rd	90,900
98468 - Elliot Rd	75,600
98469 - Elliot Rd	198,900
98471 - Shiloh Rd	184,680
98473 - Shiloh Rd	236,640
98475 - Langstaff Rd	264,225
98491 - Gilmore Rd	200,700
98493 - Gilmore Rd	205,020
98503 - East Townline Rd	169,200
98509 - East Townline Rd	19,665
98513 - East Townline Rd	128,790
98517 - Decker Hollow Road	35,311
98519 - Cold Springs Camp Rd	243,900
98523 - Cold Springs Camp Rd	78,750
99006 - South Service Rd	524,610
99007 - South Service Rd	512,460
99009 - South Service Rd	453,330
99047 - Concession St E	309,960
99049 - Concession St E	309,960
99063 - Nash Rd	287,820
99090 - Gearing's Ln	42,009
99103 - Conc Rd 4	75,600
99105 - Concession 4	81,900
99119 - Bradley Blvd	110,880
99141 - Conc Rd 6	90,816
99199 - Conc Rd 8	282,204
99201 - Conc Rd 8	178,035
99207 - Conc Rd 8	83,700
99213 - Conc Rd 9	151,755
99227 - Conc Rd 9	156,480
99229 - Conc Rd 10	168,000
99231 - Conc Rd 10	65,100
99232 - Conc Rd 10	107,100
99235 - Conc Rd 10	165,240
99253 - Boundary Rd	374,220
99273 - West Townline Rd	228,150
99274 - West Townline Rd	480,870
99287 - West Townline Rd	215,475
99289 - Fices Rd	88,275
99291 - Leask Rd	99,000
99311 - Langmaid Rd	216,240
99313 - Langmaid Rd	133,200
99315 - Langmaid Rd	44,100
99329 - Trulls Rd	311,040
99330 - Trulls Rd	231,495
99331 - Enfield Rd	586,332
99332 - Enfield Rd	27,450
99373 - Hancock Rd	146,700
99375 - Hancock Rd	47,880
99377 - Hancock Rd	57,960
99383 - Washington Rd	36,000
99403 - Solina Rd	170,100
99405 - Solina Rd	135,525
99407 - Solina Rd	293,760
99408 - Solina Rd	394,632
99409 - Solina Rd	1,105,272
99411 - Solina Rd	157,785
99416 - Solina Rd	99,495
99417 - Solina Rd	176,400

	Backlog
99447 - Baker School Rd	109,545
99449 - Holt Rd	194,616
99451 - Holt Rd	708,696
99453 - Holt Rd	264,600
99455 - Holt Rd	539,082
99457 - Holt Rd	821,286
99469 - Holt Rd	68,400
99471 - Holt Rd	63,000
99481 - Maple Grove Rd	35,475
99483 - Maple Grove Rd	631,800
99487 - Maple Grove Rd	108,225
99505 - Green Rd	785,808
99507 - Green Rd	219,300
99529 - Old Scugog Rd	473,040
99530 - Old Scugog Rd	210,600
99531 - Old Scugog Rd	134,784
99543 - Old Scugog Rd	215,220
99545 - Old Scugog Rd	201,960
99562 - Middle Rd	351,000
99563 - Middle Rd	200,850
99567 - Middle Rd	186,300
99569 - Middle Rd	193,050
99585 - Sideroad 10/11	15,840
99589 - Woodley Rd	186,300
99591 - Woodley Rd	81,900
99614 - Lambs Rd	90,000
99617 - Bethesda Rd	108,900
99618 - - Bethesda Rd	81,370
99619 - Bethesda Rd	196,950
99621 - Bethesda Rd	207,030
99623 - Bethesda Rd	194,025
99624 - Bennet	1,429
99625 - Bennett Rd	11,220
99637 - Acres Rd	197,925
99651 - Longsault Rd	203,490
99657 - Bragg Rd	156,600
99661 - Bragg Rd	102,600
99679 - Murphy Rd	22,358
99683 - Darlington/Clarke T/L	231,336
99689 - Darlington/Clarke T/L	179,100
99695 - Darlington/Manvers T/L	264,600
99811 - Potter's Ln	150,150
99821 - Sunny Ridge Tr	159,390
99835 - Maple St	141,504
99854 - Elliot St	21,450
99855 - Mary St	11,550
99862 - Sumac Rd	244,596
Guiderails - 118 Assets - Details Available Upon Request	901,596
Roads Total	**54,749,568**
Storm Sewers	
Conduit - 50 Assets - Details Available Upon Request	379,249
Structures - 289 Assets - Details Available Upon Request	1,119,839
Storm Sewers Total	**1,499,088**
Total	**91,939,659**

Asset Management Replacement Requirements
2018 to 2037
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Bridges and Culverts																				
Bridges - Rehab																				
094015 - King St E	$384,208																			
094017 - King St E	$0																			
098035 - Stewart Rd	$112,966																			
098007 - Newtonville Rd		$380,202																		
098009 - Newtonville Rd		$180,573																		
098019 - Conc Rd 3		$161,579																		
099013 - Conc Rd 3		$0																		
096001 - Old Scugog Rd			$105,284																	
098005 - Lakeshore Rd			$0																	
098017 - Golf Course Rd			$284,000																	
098041 - Squair Rd			$199,314																	
098043 - Reid Rd			$112,966																	
098067 - Conc Rd 4			$138,052																	
098069 - Conc Rd 4			$110,604																	
098075 - Conc Rd 4			$107,900																	
098085 - Conc Rd 5			$107,900																	
098087 - Soper Rd			$135,200																	
098099 - Leskard Rd			$154,328																	
099019 - Pebblestone Rd			$140,091																	
099035 - Conc Rd 6			$207,201																	
099053 - South Service Rd			$158,085																	
099067 - Baseline Rd			$131,588																	
099081 - Solina Rd			$70,762																	
099089 - Bethesda Rd			$156,649																	
099093 - Conc Rd 6			$161,485																	
099103 - Conc Rd 7			$169,876																	
099113 - Middle Rd			$101,400																	
099119 - Conc Rd 8			$108,814																	
099121 - Conc Rd 8			$123,500																	
098033 - Morgans Rd					$161,579															
094011 - King St W																				
094013 - King St W																				
094021 - Elgin St																				
094001 - West Beach Rd							$481,700													
094009 - Baseline Rd									$301,337											
094019 - Concession St										$201,237										
098039 - Conc Rd 5												$162,045								
098029 - Conc Rd 4													$165,546							
098100 - Moffat Rd													$78,656							
099069 - Lambs Rd													$104,000							
099079 - Nash Rd													$115,353							
099105 - Conc Rd 7													$132,533							
099107 - Conc Rd 7													$130,942							
099123 - Conc Rd 8													$128,700							
Bridges - Replace																				
094024-JACKMAN ROAD BAILEY BRIDGE			$644,007																	
094003-WEST BEACH ROAD																		$1,070,199		
094005-SOPER CREEK BRIDGE																		$1,228,459		
094007 - QUARRY BRIDGE OVER SOPER CREEK																		$1,515,026		
098025-LOT 10/11, CONC III, CLARKE																		$567,325		
098027-LOT 7, CONC II/III, CLARKE																		$554,198		
098037-LOT 4/5, CONC III, CLARKE																		$478,119		
098059-LOT 20, CONC B/I, CLARKE																		$303,186		
098065-LOT 30/31, CONC III, CLARKE																		$381,055		
098077-LOT 29, CONC IV, CLARKE																		$362,856		
098083-LOT 10, CONC IV/V, CLARKE																		$354,104		
098091-LOT 31/32, CONC VII/VIII, CLARKE																		$370,613		
098095-LOT 26/27, CONC VII/VIII, CLARKE																		$385,133		
098097-LOT 21, CONC VII/VIII, CLARKE																		$331,032		
099005 - South Service Rd																		$0		
099023-COLWILL BRIDGE, LOT 16, CONC IV																		$887,507		
099031-LOT 26, CONC V/VI, DARLINGTON																		$595,569		
099033-LOT 19, CONC V/VI, DARLINGTON																		$768,974		
099041-LOT 10/11, CONC VI/VII, DARLINGTON																		$605,946		
099075-LOT 2/3, CONC II, DARLINGTON																		$313,529		
099085-LOT 11, CONC III/IV, DARLINGTON																		$508,799		
099087-LOT 12/13, CONC V, DARLINGTON																		$747,741		
099095-LOT 7, CONC V/VI, DARLINGTON																		$456,289		
099115-LOT 6/7, CONC VII, DARLINGTON																		$798,094		
099003-WAVERLY ROAD OVERPASS, LOT 13/14																				$623,316
094015-SOPER CREEK WEST BRIDGE																				

Asset Management Replacement Requirements
2018 to 2037
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
094017-KING STREET EAST																				
098035-LOT 6/7, CONC III, CLARKE																				
Culvert - Rehab																				
099009-LOTS 32/33, CONC II/III, DARLINGTN	$232,827																			
094502-JACKMAN ROAD, BOWMANVILLE			$76,050																	
095501-SOMERVILLE DRIVE, ORONO			$54,868																	
098031-LOT 10, CONC III/IV, CLARKE			$179,667																	
098055-LOT 8/9, CONC B, CLARKE			$119,669																	
098508-LOT 9, CONC B/I, CLARKE			$52,991																	
098514-LOT 16/17, CONC II, CLARKE			$72,638																	
098534 - LOT 30/31, ComcVII, Clarke			$0																	
098537-LOT 14/15, CONC VII, CLARKE			$46,020																	
098546-LOT 3, CONC VIII, CLARKE			$0																	
099032-LOT 24, CONC V/VI, DARLINGTON			$113,649																	
099051-LOT 17, CONC BF, DARLINGTON			$166,230																	
099055-LOT 32, CONC BF/I, DARLINGTON			$188,308																	
099057-LOT 28, CONC BF/I, DARLINGTON			$142,355																	
099061-LOT 20/21, CONC BF, DARLINGTON			$153,442																	
099071-LOT 28, CONC I/II, DARLINGTON			$88,993																	
099073-LOT 4, CONC I/II, DARLINGTON			$81,352																	
099091-LOT 16, CONC V/VI, DARLINGTON			$78,244																	
099109-LOT 7, CONC VI/VII, DARLINGTON			$98,743																	
099111-LOT 20, CONC VII, DARLINGTON			$67,044																	
099117-LOT 16, CONC VII/VIII, DARLINGTON			$146,367																	
099507-LOT 20/21, CONC I, DARLINGTON			$80,275																	
099531-LOT 17, CONC VI/VII, DARLINGTON			$83,728																	
099544 - Maple St			$63,131																	
098049-LOT 32, CONC VII, CLARKE						$165,383														
099027-LOTS 30/31, CONC IV, DARLINGTON								$158,261												
098053-LOT 8/9, CONC A, CLARKE											$172,695									
098063-LOT 30, CONC II/III, CLARKE													$111,976							
098103-LOT 1, CONC VIII, CLARKE													$68,220							
098504-LOT 24/25, CONC B, CLARKE													$91,000							
099063-LOT 20, CONC BF/I, DARLINGTON													$142,748							
099097-LOT 3, CONC V/VI, DARLINGTON													$140,485							
099505-LOT 17, CONC BF/I, DARLINGTON													$68,738							
099012-LOTS 30/31, CONC II, DARLINGTON														$200,925						
092502 - NASH RD OVER FARWELL CREEK TRIBUTARY																				$96,178
092502 - NASH RD OVER FARWELL CREEK TRIBUTARY																				$120,679
Culvert - Replace																				
093501 - Toronto St			$219,473																	
093502 - Robert St			$253,468																	
093503 - Robert St			$259,594																	
094501 - Port Darlington Rd			$197,600																	
095503 - Orono Mill St			$213,330																	
095505 - Orono Mill St			$251,680																	
095506 - Orono Mill St			$202,800																	
095507 - Orono Mill St			$191,565																	
095508 - Orono Mill St			$296,231																	
095509 - Robins Rd			$249,990																	
095510 - Peter's Pike			$342,420																	
098505 - Nichols Rd			$181,922																	
098506 - Lancaster Rd			$177,385																	
098507 - Nichols Rd			$206,700																	
098509 - Conc Rd 1			$172,653																	
098510 - Conc Rd 1			$199,518																	
098511 - Conc Rd 1			$176,475																	
098513 - East Townline Rd			$103,480																	
098522 - Conc Rd 5			$178,139																	
098523 - Ochonski Rd			$182,325																	
098524 - Gamsby Rd			$188,955																	
098525 - Vickers Rd			$231,270																	
098526 - Patterson Rd			$195,195																	
098527 - Conc Rd 6			$231,400																	
098529 - Conc Rd 6			$206,271																	
098531 - Conc Rd 7			$177,060																	
098532 - Conc Rd 7			$234,122																	
098533 - Conc Rd 7			$210,704																	
098538 - Thompson Rd			$203,892																	
098539 - Mercer Rd			$256,425																	
098543 - Cold Springs Camp Rd			$103,703																	
098548 - Best Rd			$186,037																	
098549 - Best Rd			$198,640																	
098551 - Mosport Rd			$280,800																	

Asset Management Replacement Requirements
2018 to 2037
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
098552 - Conc Rd 7			$203,385																	
099501 - Darlington Park Rd			$266,078																	
099504 - Baseline Rd			$249,828																	
099508 - Bloor St			$187,356																	
099509 - Bloor St			$194,025																	
099510 - Bloor St			$202,556																	
099511 - Conc Rd 3			$182,618																	
099514 - Mearns Av			$261,300																	
099515 - Pebblestone Rd			$192,290																	
099520 - Rundle Rd			$175,890																	
099523 - Conc Rd 6			$236,106																	
099525 - Conc Rd 6			$379,275																	
099526 - Acres Rd			$164,229																	
099527 - Gibbs Rd			$210,015																	
099530 - Conc Rd 7			$249,600																	
099532 - Conc Rd 7			$186,420																	
099535 - Gibbs Rd			$220,740																	
099536 - Conc Rd 8			$322,725																	
099537 - Ormiston Rd			$188,331																	
099538 - Woodley Rd			$194,181																	
099539 - Woodley Rd			$211,283																	
099543 - Bragg Rd			$195,488																	
098515 - Reid Rd													$199,680							
098516 - Moffat Rd													$178,022							
098518 - Conc Rd 4													$221,020							
098519 - Conc Rd 4													$261,131							
098521 - Conc Rd 5													$241,800							
098535 - Best Rd													$272,318							
098536 - Maynard Rd													$176,475							
098540 - Langstaff Rd													$312,000							
098541 - Soper Rd													$196,040							
098542 - Cold Springs Camp Rd													$101,576							
098545 - Conc Rd 8													$263,079							
098547 - Leskard Rd													$223,080							
098550 - Best Rd													$193,440							
099125 - Townline Rd													$232,171							
099513 - Conc Rd 3													$181,116							
099533 - Conc Rd 7													$434,363							
099541 - Conc Rd 9													$254,353							
099542 - Conc Rd 10													$240,760							
092501 - Windsor Valley Pl														$354,861						
093505 - Toronto St																		$341,250		
095001 - Station St																		$450,190		
095005 - Millson Hill Dr																		$337,350		
095504 - Orono Mill St																		$393,900		
098079 - Conc Rd 5																		$343,850		
098093 - Conc Rd 8																		$386,848		
098101 - Thertell Rd																		$341,478		
098502 - Lakeshore Rd																		$314,925		
098544 - Conc Rd 8																		$203,288		
099054 - South Service Rd																		$466,050		
099065 - Baseline Rd																		$449,020		
099009 - Nash Rd																				
Reallocation of Peak Capital Years	$1,717,370	$1,717,370	($15,456,333)	$1,717,370	$1,717,370	$1,717,370	$1,717,370	$1,717,370	$0	$1,358,375	$1,358,375	$1,358,375	$1,358,375	$1,358,375	$1,358,375	$1,358,375	$1,358,375	($12,225,378)	$1,358,375	
TOTAL BRIDGES AND CULVERTS	**$2,447,371**	**$2,439,724**	**$2,361,376**	**$1,717,370**	**$1,878,949**	**$1,882,753**	**$2,199,070**	**$1,875,631**	**$301,337**	**$1,559,612**	**$1,531,071**	**$1,520,420**	**$7,019,693**	**$1,914,161**	**$1,358,375**	**$1,358,375**	**$1,358,375**	**$5,386,524**	**$1,358,375**	**$840,173**
Buildings																				
33 Lake Road - Maint. Building																				
350 - 33 Lake Road Maintenance Building Roof	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$25,047	-	
6569 - Furnace #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$6,205	-	-	-	-	
Alan Strike Aquatic and Squash Centre																				
425 - Alan Strike Centre Structure	-	-	-	-	-	-	-	-	-	-	-	-	$940,505	-	-	-	-	-	-	
426 - Alan Strike Centre Roof 101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$164,209	
427 - Alan Strike Centre Roof 102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$59,332	
428 - Alan Strike Centre Roof 103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$40,095	
429 - Alan Strike Centre Roof 201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$32,215	
430 - Alan Strike Centre Roof 202	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$9,966	
431 - Allan Strike Centre Indoor Pool	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$600,971	
54339 - ASC 2015 Modified Bitumen Roof	-	-	-	-	-	-	-	-	-	-	-	-	$121,112	-	-	-	-	-	-	
54341 - ASC - Interior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$341,581	-	
54342 - ASC Mechanical - AIR HANDLING UNIT	-	-	-	-	-	-	-	-	-	-	-	-	$95,786	-	-	-	-	-	-	
54343 - ASC Mechanical - ROOF TOP UNIT #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$52,732	-	
54344 - ASC Mechanical - ROOF TOP UNIT #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$21,561	-	
54345 - ASC Mechanical - ROOF TOP UNIT #3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$26,951	-	

Asset Management Replacement Requirements
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
54346 - ASC Mechanical - ROOF TOP UNIT #4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$49,215	-	
54347 - ASC Mechanical - ROOF TOP UNIT #5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$32,225	-	
54348 - ASC Mechanical - ROOF TOP UNIT #6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$84,371	-	
54349 - ASC Mechanical - ON DEMAND HOT WATER SYSTEM #1	-	-	-	-	-	-	-	-	-	-	-	-	$7,565	-	-	-	-	-	-	
54350 - ASC Mechanical - ON DEMAND HOT WATER SYSTEM #2	-	-	-	-	-	-	-	-	-	-	-	-	$7,565	-	-	-	-	-	-	
54352 - ASC Mechanical - BOILER PUMP #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,358	-	
54354 - ASC Mechanical - BOILER PUMP #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,358	-	
54355 - ASC Mechanical - BOILER PUMP #6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,358	-	
54356 - ASC Mechanical - BOILER PUMP #7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,358	-	
54357 - ASC Mechanical - MAIN POOL PUMP #1	-	-	-	-	-	-	-	-	-	-	-	-	$19,706	-	-	-	-	-	-	
54358 - ASC Mechanical - MAIN POOL PUMP #2	-	-	-	-	-	-	-	-	-	-	-	-	$19,706	-	-	-	-	-	-	
54359 - ASC Mechanical - HOT TUB RECIRCULATION PUMP	-	-	-	-	-	-	-	-	-	-	-	-	$1,333	-	-	-	-	-	-	
54360 - ASC Mechanical - HOT TUB JET PUMP	-	-	-	-	-	-	-	-	-	-	-	-	$3,999	-	-	-	-	-	-	
54361 - ASC Mechanical - MAIN POOL HEAT EXCHANGER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$8,830	-	
54362 - ASC Mechanical - HOT TUB HEAT EXCHANGER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,678	-	
54365 - ASC Mechanical - Water Expansion Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$6,470	-	
54366 - ASC Mechanical - LIFE SAFETY	-	-	-	-	-	-	-	-	-	-	-	-	$28,172	-	-	-	-	-	-	
54367 - ASC Mechanical - Security System	-	-	-	-	-	-	-	-	-	-	-	-	$5,246	-	-	-	-	-	-	
54369 - ASC Mechanical - Land Improvements	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$261,897	-	
54371 - ASC - Indoor Pool	-	$43,368	-	-	-	$46,943	-	-	-	$50,813	-	-	-	$55,002	-	-	-	$59,536	-	
Animal Services Building																				
343 - Animal Services Building Roof	-	-	-	$69,358	-	-	-	-	$76,577	-	-	-	-	$84,547	-	-	-	-	$93,347	
344 - Animal Services Building Air Conditioning Unit	-	-	-	-	-	-	-	-	-	-	$86,282	-	-	-	-	-	-	-	-	
6567 - Furnace #1	-	-	-	-	-	$2,516	-	-	-	-	-	-	-	$2,947	-	-	-	-	-	
6568 - Furnace #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$6,205	-	-	-	-	
6570 - Clothing Washer	-	-	-	-	$8,851	-	-	-	-	-	-	$10,166	-	-	-	-	-	-	$11,678	
Baseline Community Centre																				
168 - Baseline Community Centre Structure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$257,027	-	
169 - Baseline Community Centre Roof 101	-	-	-	$51,787	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$69,698	
Bowmanville Cemetery Building																				
345 - Bowmanville Cemetery Building Structure	-	-	-	-	-	-	$7,161	-	-	-	-	-	-	-	-	-	-	-	-	
Bowmanville Indoor Soccer																				
402 - Bowmanville Indoor Soccer Roof 101	-	-	$343,276	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$462,004	-	
403 - Bowmanville Indoor Soccer Roof 201	-	-	$99,240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$133,563	-	
404 - Bowmanville Indoor Soccer Roof 301	-	-	$1,686	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$2,270	-	
405 - Bowmanville Indoor Soccer Roof 302	-	-	$10,660	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$14,347	-	
406 - Bowmanville Indoor Soccer Interior	-	-	-	-	-	-	-	-	-	-	-	-	$112,677	-	-	-	-	-	-	
409 - Bowmanville Indoor Soccer Indoor Soccer Field	-	-	-	-	-	-	-	-	-	-	-	-	$269,071	-	-	-	-	-	-	
6273 - BIS - Carrier A/C Unit #1	-	-	$26,957	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6274 - BIS - Carrier A/C Unit #2	-	-	$26,957	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6275 - BIS - Reznor Unit Heater #1	-	-	$4,296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6276 - BIS - Reznor Unit Heater #2	-	-	$4,296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6277 - BIS - Reznor Unit Heater #3	-	-	$4,296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6278 - BIS - Reznor Unit Heater #4	-	-	$4,296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6279 - BIS - Reznor Unit Heater #5	-	-	$4,296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6280 - BIS - Reznor Unit Heater #6	-	-	$4,296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6281 - BIS - Reznor Unit Heater #7	-	-	$4,296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6282 - BIS - Reznor Unit Heater #8	-	-	$4,296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6283 - BIS - WATER HEATER	-	-	$10,517	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6284 - BIS - ELECTRICAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$468,430	-	
6285 - BIS - LIFE SAFETY	-	-	$43,197	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6286 - BIS - Plumbing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$245,693	-	
Brownsdale Community Centre																				
171 - Brownsdale Community Centre Structure	-	-	-	-	-	-	$106,682	-	-	-	-	-	-	-	-	-	-	-	-	
172 - Brownsdale Community Centre Roof	-	-	-	-	-	-	-	-	-	-	-	-	-	$75,799	-	-	-	-	-	
6630 - Brownsdale Community Centre - Forced Air Furnace	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$5,907	-	-	-	-	
Clarington Beech Centre																				
192 - Clarington Beech Centre Roof 101	-	-	-	-	-	-	-	-	$56,497	-	-	-	-	-	-	-	-	-	$68,869	
193 - Clarington Beech Centre Roof 201	-	-	-	-	-	-	-	-	$18,838	-	-	-	-	-	-	-	-	-	$22,964	
194 - Clarington Beech Centre Roof 301	-	-	-	-	-	-	-	-	$70,718	-	-	-	-	-	-	-	-	-	$86,204	
195 - Clarington Beech Centre Roof 401	-	-	-	-	-	-	-	-	$54,101	-	-	-	-	-	-	-	-	-	$65,949	
196 - Clarington Beech Centre Roof 402	-	-	-	-	-	-	-	-	$23,669	-	-	-	-	-	-	-	-	-	$28,853	
197 - Clarington Beech Centre Roof 501	-	-	-	-	-	-	-	-	$6,763	-	-	-	-	-	-	-	-	-	$8,244	
198 - Clarington Beech Centre Roof 601	-	-	-	-	-	-	-	-	-	-	-	-	$24,389	-	-	-	-	-	-	
199 - Clarington Beech Centre Roof 602	-	-	-	-	-	-	-	-	-	-	-	-	$7,356	-	-	-	-	-	-	
200 - Clarington Beech Centre Roof 603	-	-	-	-	-	-	-	-	-	-	-	-	$8,322	-	-	-	-	-	-	
201 - Clarington Beech Centre Roof 604	-	-	-	-	-	-	-	-	-	-	-	-	$7,452	-	-	-	-	-	-	
202 - Clarington Beech Centre Roof 701	-	-	-	-	-	-	-	-	$7,914	-	-	-	-	-	-	-	-	-	$9,647	
203 - Clarington Beech Centre Roof 702	-	-	-	-	-	-	-	-	$19,782	-	-	-	-	-	-	-	-	-	$24,114	
204 - Clarington Beech Centre Roof 703	-	-	-	-	-	-	-	-	-	-	-	-	$3,871	-	-	-	-	-	-	
6580 - Rooftop Unit #1	-	-	-	-	-	$2,096	-	-	-	-	-	-	-	$2,456	-	-	-	-	-	
6581 - Rooftop Unit #4	-	-	-	-	-	-	-	-	$3,524	-	-	-	-	-	-	-	-	-	-	$4,382

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6582 - Rooftop Unit #2 (Banquet Hall)	-	-	-	-	-	$3,144	-	-	-	-	-	-	-	$3,684	-	-	-	-	-	
6583 - Rooftop Unit #3	-	-	-	-	-	$2,096	-	-	-	-	-	-	-	$2,456	-	-	-	-	-	
6585 - Boiler (Basement)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$9,277	
6586 - Rooftop Unit #5	-	-	-	-	-	$2,096	-	-	-	-	-	-	-	$2,456	-	-	-	-	-	
6588 - Elevator	-	-	-	-	-	-	-	-	-	-	$26,000	-	-	-	-	-	-	-	-	
Clarington Museum-37 Silver St.																				
184 - Clarington Museum-37 Silver St. Roof 101	-	-	-	-	-	-	-	-	-	-	-	$2,957	-	-	-	-	-	-	-	
185 - Clarington Museum-37 Silver St. Roof 201	-	-	-	-	-	-	-	-	-	-	-	$34,933	-	-	-	-	-	-	-	
186 - Clarington Museum-37 Silver St. Roof 301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$29,169	
187 - Clarington Museum-37 Silver St. Roof 401	-	-	-	-	-	-	-	-	-	-	-	$1,811	-	-	-	-	-	-	-	
188 - Clarington Museum-37 Silver St. Roof 402	-	-	-	-	-	-	-	-	-	-	-	$1,701	-	-	-	-	-	-	-	
189 - Clarington Museum-37 Silver St. Roof 403	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$13,962	
190 - Clarington Museum-37 Silver St. Roof 404	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$2,000	
6564 - Boiler #1	-	-	-	-	-	-	-	-	-	-	$2,396	-	-	-	-	-	-	-	-	
6565 - Boiler #2	-	-	-	-	-	-	-	-	-	-	$2,396	-	-	-	-	-	-	-	-	
6566 - Life Safety	-	-	-	-	-	-	-	-	-	$6,044	-	-	-	-	-	-	-	-	-	
Clarke Museum																				
263 - Clarke Museum Structure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$47,192	-	-	-	-	
264 - Clarke Museum Roof 101	-	-	-	-	-	-	-	-	$47,828	-	-	-	-	-	-	-	-	-	-	
266 - Clarke Museum Roof 301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,205	-	
268 - Clarke Museum Siding/Septic Tank	-	-	-	-	-	-	-	-	$77,367	-	-	-	-	-	-	-	-	-	-	
6563 - Furnace #2	-	-	$2,201	-	-	-	-	$2,430	-	-	-	-	$2,683	-	-	-	-	$2,962	-	
Courtice Community Complex																				
434 - Courtice Community Complex Interior	-	-	-	-	$484,958	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
436 - Courtice Community Complex Indoor Pool	-	-	-	-	-	-	-	-	-	$1,305,568	-	-	-	-	-	-	-	-	-	
438 - Courtice Community Complex Roof 101	-	-	-	-	$207,629	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
439 - Courtice Community Complex Roof 201	-	-	-	-	$24,915	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
440 - Courtice Community Complex Roof 202	-	-	-	-	$24,714	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
441 - Courtice Community Complex Roof 203	-	-	-	-	$5,064	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
442 - Courtice Community Complex Roof 301	-	-	-	-	$5,064	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
443 - Courtice Community Complex Roof 401	-	-	-	-	$274,181	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
444 - Courtice Community Complex Roof 501	-	-	-	-	$25,180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
445 - Courtice Community Complex Roof 502	-	-	-	-	$124,537	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
446 - Courtice Community Complex Roof 503	-	-	-	-	$2,431	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
447 - Courtice Community Complex Roof 402																				$140,949
448 - Courtice Community Complex Roof 601																				$171,101
449 - Courtice Community Complex Roof 602																				$3,001
451 - Courtice Community Complex - 1997 Library Portion Interior	-	-	-	-	$86,390	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
454 - Courtice Community Complex Interior	-	-	-	-	-	-	-	-	-	$218,218	-	-	-	-	-	-	-	-	-	
456 - Courtice Community Complex Dehumidifier	-	-	-	-	-	-	-	-	-	$277,728	-	-	-	-	-	-	-	-	-	
457 - Courtice Community Complex BAS Controller																				
5563 - CCC Interior - Accessibility Door Widenings	-	-	-	-	-	-	-	-	-	-	-	$24,201	-	-	-	-	-	-	-	
5564 - CCC Interior - Lighting Retrofit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,473	-	-	
5565 - CCC Mechanical - Life Safety Fire Alarm Horn/Strobe Units	-	-	-	-	-	-	$7,799	-	-	-	-	-	-	-	-	-	$9,506	-	-	
6465 - Make-up Air Unit #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6466 - Make-up Air Unit #2	-	-	-	-	$41,169	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6467 - Roof Top Unit #2	-	-	-	-	$41,038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6468 - Roof Top Unit #3	-	-	-	-	$29,312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6469 - Roof Top Unit #4	-	-	-	-	$29,312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6470 - Roof Top Unit #5	-	-	-	-	$41,038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6471 - Roof Top Unit #6	-	-	-	-	$41,038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6472 - Roof Top Unit #7	-	-	-	-	$29,312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6473 - AC Dacron	-	-	-	-	-	-	-	-	-	$25,522	-	-	-	-	-	-	-	-	-	
6474 - AC Dacron Coil	-	-	-	-	-	-	-	-	-	$25,522	-	-	-	-	-	-	-	-	-	
6475 - RTUL #1	-	-	-	-	-	-	-	-	-	$31,904	-	-	-	-	-	-	-	-	-	
6476 - RTUL# 2	-	-	-	-	-	-	-	-	-	$31,904	-	-	-	-	-	-	-	-	-	
6477 - RTUL #3	-	-	-	-	-	-	-	-	-	$44,664	-	-	-	-	-	-	-	-	-	
6478 - RTUL #4	-	-	-	-	-	-	-	-	-	$44,664	-	-	-	-	-	-	-	-	-	
6479 - Unit Heater Fan Coil #1	-	-	-	-	$5,863	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6480 - Unit Heater Fan Coil #2	-	-	-	-	$5,863	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6481 - Unit Heater Fan Coil #3	-	-	-	-	$5,863	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6482 - Unit Heater Electric	-	-	-	-	$2,344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6483 - Unit Heater Electric	-	-	-	-	$2,344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6484 - Unit Heater Electric	-	-	-	-	$2,344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6485 - Unit Heater Electric	-	-	-	-	$2,344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6486 - Unit Heater Electric	-	-	-	-	$2,344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6487 - Unit Heater Electric	-	-	-	-	$2,344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6488 - Unit Heater Electric	-	-	-	-	$2,344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6489 - Unit Heater Electric	-	-	-	-	$2,344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6490 - Boiler #1	-	-	-	-	$41,038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6491 - Boiler #2	-	-	-	-	$41,038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6492 - Boiler #3	-	-	-	-	$41,038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Asset Management Replacement Requirements
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
6493 - Pump # 1 Heading Loop	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6494 - Pump # 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6495 - Pump # 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6496 - Pump # 4	-	-	-	-	$5,882	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6497 - Pump # 5	-	-	-	-	$5,882	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6498 - Pump # 6	-	-	-	-	$5,882	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6499 - Pump # 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6500 - Heat Exchanger Main pool	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6501 - Heat Exchanger whirlpool	-	-	-	-	-	-	-	-	-	$5,881	-	-	-	-	-	-	-	-	-	
6502 - Heat Exchanger tot pool	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6503 - Pool Pump Main	-	-	-	-	$23,526	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6504 - Pool Pump Tot Pool	-	-	-	-	$5,882	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6505 - Pool Pump Whirlpool	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6506 - Pool Pump Whirlpool	-	-	-	-	$8,822	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6507 - Spray Pad Pump	-	-	-	-	$11,762	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6508 - Slide Pump	-	-	-	-	$11,762	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6509 - Main Pool Pump	-	-	-	-	$23,526	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6510 - Slurry Tank Agitator	-	-	-	-	$11,724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6511 - Strantrol Controller Main Pool	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6512 - Strantrol Controller Tot Pool	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6513 - Strantrol Controller Whirl Pool	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6514 - CCC - LIFE SAFETY	-	-	-	-	$24,621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
54327 - Courtice Community Complex - Pool Deck Lighting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$19,014	-	
54334 - CCC Library Mechanical - HVAC Controls	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$40,434	-	
54336 - CCC Library Mechanical - 2015 Life Safety	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$67,873	-	
54337 - CCC Library - 2015 Communication System	-	-	-	-	-	-	-	$5,860	-	-	-	-	-	-	-	-	-	$7,143	-	
Darlington Sports Centre																				
383 - Darlington Sports Centre Structure	-	-	-	-	-	-	-	$417,537	-	-	-	-	-	-	-	-	-	-	-	
386 - Darlington Sports Centre Interior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$211,147	
391 - Darlington Sports Centre Roof 101	-	-	-	-	-	-	-	-	-	-	-	-	-	$196,460	-	-	-	-	-	
392 - Darlington Sports Centre Roof 201	-	-	-	-	-	-	-	-	-	-	-	-	-	$2,390	-	-	-	-	-	
393 - Darlington Sports Centre Roof 202	-	-	-	-	-	-	-	-	-	-	-	-	-	$911	-	-	-	-	-	
394 - Darlington Sports Centre Roof 301	-	-	-	-	-	-	-	-	-	-	-	-	-	$33,920	-	-	-	-	-	
395 - Darlington Sports Centre Roof 302	-	-	-	-	-	-	-	-	-	-	-	-	-	$16,961	-	-	-	-	-	
396 - Darlington Sports Centre Roof 401	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,139	-	-	-	-	-	
397 - Darlington Sports Centre Roof 501	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,822	-	-	-	-	-	
398 - Darlington Sports Centre Roof 601	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,139	-	-	-	-	-	
399 - Darlington Sports Centre Roof 701	-	-	-	-	-	-	-	-	-	-	-	-	-	$29,536	-	-	-	-	-	
400 - Darlington Sports Centre Roof 801	-	-	-	-	-	-	-	-	-	-	-	-	-	$569	-	-	-	-	-	
6422 - Darlington Sports Centre Structure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$85,218	
6423 - DSC - SA-1 1/4 hp Fan Motor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$2,315	
6424 - DSC - Sewer Pump 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,086	
6425 - DSC - Sewer Pump 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,086	
6426 - DSC - Weeping Bed Pump	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,086	
6427 - DSC - Dehumidification	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$46,308	
6428 - DSC - Schwank Stand heaters x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$4,630	
6429 - DSC - Makeup Air Unit 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$38,590	
6431 - DSC - Chlorine Pump #7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$2,315	
6432 - DSC - Chlorine Pump #8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$2,315	
6433 - DSC - Chlorine Controller	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$4,630	
6434 - DSC - Unit Heater	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$4,630	
6435 - DSC - Makeup Air Unit 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$38,590	
6436 - DSC - Gas Boiler	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$50,940	
6437 - DSC - Pressure Tank 119 Gallons	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,859	
6438 - DSC - Pressure Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,859	
6440 - DSC - Pressure Tank 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,859	
6441 - DSC - Pressure Tank 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,859	
6442 - DSC - Pressure Tank 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,859	
6443 - DSC - Pump 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$6,173	
6444 - DSC - Pump 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$6,173	
6445 - DSC - Storage water tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$23,154	
6446 - DSC - Well Pump	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$15,436	
6447 - DSC - Well Pump	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$15,436	
6448 - DSC - Well Pump	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$15,436	
6449 - DSC - Compressor #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$46,308	
6450 - DSC - Compressor #1 50hp motor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$46,308	
6451 - DSC - Compressor #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$46,308	
6452 - DSC - Compressor #2 30 HP MOTOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$41,421	
6453 - DSC - Glycol Pump	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,718	
6454 - DSC - Weg Motor 25 HP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,718	
6455 - DSC - Plate Chiller	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$92,615	
6456 - DSC - Gylcol tower Pump Weg motor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,718	

Asset Management Replacement Requirements
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
6457 - DSC - Condenser Pump Weg motor 3hp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,718	
6458 - DSC - Cooling tower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$169,795	
6459 - DSC - Unit Heater	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$4,630	
6460 - DSC - Portable oil pump 1/3hp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,544	
6461 - LIFE SAFETY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$50,940	
6462 - Electrical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$161,772	
54330 - Darlington Sports Centre - Olympia Natural Gas Refuel Station	-	-	-	-	-	-	-	-	-	-	-	-	$24,241	-	-	-	-	-	-	
Fire Court Building																				
242 - Fire Court Building Structure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6515 - Boiler #1	-	-	-	-	-	-	-	-	-	-	-	-	$16,435	-	-	-	-	-	-	
6516 - Boiler #2	-	-	-	-	-	-	-	-	-	-	-	-	$16,435	-	-	-	-	-	-	
6517 - Circulation pump #1	-	-	-	-	-	-	-	-	$1,113	-	-	-	-	-	-	-	-	-	-	$1,384
6518 - Circulation pump #2	-	-	-	-	-	-	-	-	$1,113	-	-	-	-	-	-	-	-	-	-	$1,384
54320 - Fire/Court Building - A/C Chiller	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$101,801	-	
Fire Station #1 - Bowmanville																				
283 - Fire Station #1 Roof 101	-	-	-	-	-	-	$106,610	-	-	-	-	-	-	-	-	-	-	-	-	
284 - Fire Station #1 Roof 201	-	-	-	-	-	-	$92,343	-	-	-	-	-	-	-	-	-	-	-	-	
285 - Fire Station #1 Roof 202	-	-	-	-	-	-	$5,601	-	-	-	-	-	-	-	-	-	-	-	-	
286 - Fire Station #1 Roof 203	-	-	-	-	-	-	$7,528	-	-	-	-	-	-	-	-	-	-	-	-	
287 - Fire Station #1 Roof 301	-	-	-	-	-	-	-	-	-	$52,203	-	-	-	-	-	-	-	-	-	
289 - Fire Station #1 Boat Shed	-	$31,178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5575 - Fire Station #1 Bowmanville - Interior	-	-	-	-	-	-	$37,737	-	-	-	-	-	-	-	-	-	$46,001	-	-	
6532 - Roof Top	-	-	-	-	-	-	$18,230	-	-	-	-	-	-	-	-	-	-	-	-	
6533 - MAU	-	-	-	-	-	-	$12,154	-	-	-	-	-	-	-	-	-	-	-	-	
6536 - VVT controls system	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6537 - EVAC - Airmation System	-	$11,008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6538 - Generator	-	$82,558	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fire Station #2 - Newcastle																				
5577 - Fire Station #2 Newcastle - Roof - 101	-	-	-	-	-	-	-	-	-	-	-	$11,134	-	-	-	-	-	-	-	
5578 - Fire Station #2 Newcastle - Roof - 201	-	-	-	-	-	-	-	-	-	-	-	$34,640	-	-	-	-	-	-	-	
5581 - Fire Station #2 Newcastle - Interior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$347,801	-	-	
5582 - Fire Station #2 Newcastle - Mechanical - HVAC	-	-	-	-	-	-	-	-	-	-	-	$164,432	-	-	-	-	-	-	-	
5583 - Fire Station #2 Newcastle - Mechanical - Boilers	-	-	-	-	-	-	-	-	-	-	-	$95,776	-	-	-	-	-	-	-	
5586 - Fire Station #2 Newcastle - Mechanical - Life Safety	-	-	-	-	-	-	-	-	-	-	-	$55,334	-	-	-	-	-	-	-	
5587 - Fire Station #2 Newcastle - Mechanical - Airmation Unit	-	-	-	-	-	-	-	-	-	-	-	$92,498	-	-	-	-	-	-	-	
Fire Station #3 - Orono																				
294 - Fire Station #3 Structure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$357,864	-	-	
5590 - Fire Station #3 Orono - Roof 101 - Asphalt Shingles	-	-	-	-	-	-	-	-	-	-	-	$570	-	-	-	-	-	-	-	
5591 - Fire Station #3 Orono - Roof 201 - Asphalt Shingles	-	-	-	-	-	-	-	-	-	-	-	$21,769	-	-	-	-	-	-	-	
6539 - Boiler	-	$11,052	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6540 - Unit Heater	-	$5,525	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fire Station #4 - Courtice																				
299 - Fire Station #4 Roof 101	-	-	-	-	-	-	-	-	-	-	-	-	$2,167	-	-	-	-	-	-	
300 - Fire Station #4 Roof 201	-	-	-	-	-	-	-	-	-	-	-	-	$56,330	-	-	-	-	-	-	
301 - Fire Station #4 Roof 202	-	-	-	-	-	-	-	-	-	-	-	-	$42,898	-	-	-	-	-	-	
302 - Fire Station #4 Roof 301	-	-	-	-	-	-	-	-	-	-	-	-	$19,065	-	-	-	-	-	-	
303 - Fire Station #4 Roof 302	-	-	-	-	-	-	-	-	-	-	-	-	$21,665	-	-	-	-	-	-	
304 - Fire Station #4 Roof 401	-	-	-	-	-	-	-	-	-	-	-	-	$1,589	-	-	-	-	-	-	
305 - Fire Station #4 Roof 402	-	-	-	-	-	-	-	-	-	-	-	-	$1,371	-	-	-	-	-	-	
306 - Fire Station #4 Roof 403	-	-	-	-	-	-	-	-	-	-	-	-	$12,782	-	-	-	-	-	-	
307 - Fire Station #4 Roof 501	-	-	$21,289	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$28,653	-	
6541 - AC Unit #1	-	-	-	-	-	-	-	$18,545	-	-	-	-	-	-	-	-	-	-	-	
6542 - AC Unit #2	-	-	-	-	-	-	-	$18,545	-	-	-	-	-	-	-	-	-	-	-	
6543 - AC Unit #4	-	-	-	-	-	-	-	$18,545	-	-	-	-	-	-	-	-	-	-	-	
6544 - AC Unit #3	-	-	-	-	-	-	-	$18,545	-	-	-	-	-	-	-	-	-	-	-	
6545 - Unit Heater	-	-	-	-	-	-	-	$9,273	-	-	-	-	-	-	-	-	-	-	-	
6546 - Generator	-	-	-	-	-	-	-	-	-	-	-	-	$102,373	-	-	-	-	-	-	
Fire Station #5 - Enniskillen																				
310 - Fire Station #5 Roof 101	-	-	$3,419	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
311 - Fire Station #5 Roof 201	-	-	$33,157	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
314 - Fire Station #5 Training Room Expansion	-	-	-	-	-	-	-	-	-	-	-	-	-	$47,788	-	-	-	-	-	
5592 - Fire Station #5 Enniskillen - Roof 301 - EPDM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,393	-	-	
5593 - Fire Station #5 Enniskillen - Roof 401 - EPDM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$68,890	-	-	
6547 - Furnace #3	-	-	-	-	-	-	-	-	$9,441	-	-	-	-	-	-	-	-	-	-	
6548 - Furnace #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6549 - Furnace #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hampton Community Hall																				
207 - Hampton Community Hall Roof 101	-	-	-	$42,571	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$57,295	
208 - Hampton Community Hall Roof 201	-	-	-	$2,618	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,523	
209 - Hampton Community Hall Roof 301	-	-	-	$5,234	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,045	
6631 - Boiler	-	-	-	-	$3,260	-	-	-	-	-	-	$3,745	-	-	-	-	-	-	$4,302	

Asset Management Replacement Requirements
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Hampton Operations Depot																				
316 - Hampton Operations Depot Structure	-	-	-	-	-	-	-	$826,874	-	-	-	-	-	-	-	-	-	-	-	
317 - Hampton Operations Depot Roof 101	-	-	-	-	-	-	-	-	-	-	-	-	-	$80,685	-	-	-	-	-	
318 - Hampton Operations Depot Roof 102	-	-	-	-	-	-	-	-	-	-	-	-	-	$123,712	-	-	-	-	-	
319 - Hampton Operations Depot Roof 201	-	-	-	-	-	-	-	-	-	-	-	-	-	$52,719	-	-	-	-	-	
320 - Hampton Operations Depot Roof 202	-	-	-	-	-	-	-	-	-	-	-	-	-	$15,776	-	-	-	-	-	
321 - Hampton Operations Depot Roof 301	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,688	-	-	-	-	-	
322 - Hampton Operations Depot Roof 401	-	-	-	-	-	-	-	-	-	-	-	-	-	$27,107	-	-	-	-	-	
328 - Hampton Operations Depot Fuel Pumping System	-	-	-	-	-	-	-	$286,131	-	-	-	-	-	-	-	-	-	-	-	
6525 - Gas Furnace (Parts bay)	-	-	-	-	-	-	-	-	-	$4,959	-	-	-	-	-	-	-	-	-	
6526 - Gas Furnace (Parks Bay)	-	-	-	-	-	-	-	-	-	$4,959	-	-	-	-	-	-	-	-	-	
6527 - Gas Furnace (Welding Bay)	-	-	-	-	-	-	-	-	-	$4,959	-	-	-	-	-	-	-	-	-	
6529 - Gas Furnace (Compressor Closet)	-	-	-	-	-	-	-	-	-	$3,307	-	-	-	-	-	-	-	-	-	
6530 - Schwank Heaters x6	-	-	-	-	-	-	-	-	-	$5,951	-	-	-	-	-	-	-	-	-	
6531 - Generator	-	-	-	-	-	-	-	$20,943	-	-	-	-	-	-	-	-	-	$25,529	-	
54318 - Hampton Operations Interior - Accessibility Door Widenings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$20,946	-	
Haydon Community Hall																				
210 - Haydon Community Hall Structure	$38,617	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
211 - Haydon Community Hall Roof 101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
212 - Haydon Community Hall Roof 201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Kendal Community Centre																				
214 - Kendal Community Centre Roof 101	-	-	-	-	$51,342	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$69,099
215 - Kendal Community Centre Roof 201	-	-	-	-	$46,033	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$61,954
216 - Kendal Community Centre Roof 202	-	-	-	-	$60,133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$80,931
217 - Kendal Community Centre Boiler	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$57,983	-	
Memorial Park Clubhouse																				
220 - Memorial Park Clubhouse Roof 201	-	-	-	-	-	-	-	-	-	-	-	-	-	$63,559	-	-	-	-	-	
221 - Memorial Park Clubhouse Roof 301	-	-	-	-	-	-	-	-	-	-	-	-	-	$6,561	-	-	-	-	-	
54321 - Memorial Park Clubhouse - Roof 101	-	-	-	-	-	-	-	-	-	-	-	-	$3,063	-	-	-	-	-	-	
Municipal Admin Building																				
98 - MAC Building - Original 1903 Roof 101	-	-	$5,881	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,915	-	
99 - MAC Building - Original 1903 Roof 201	-	-	$133,313	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$179,422	-	
100 - MAC Building - 1988 Addition Roof 301	-	-	-	-	-	$37,586	-	-	-	-	-	-	-	-	-	-	-	-	-	
103 - MAC Building - 2003 Library Addition Roof 101	$41,389	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$55,704	-	-	-	
104 - MAC Building - 2003 Library Addition Roof 201	$79,769	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$107,358	-	-	-	
105 - MAC Building - 2003 Library Addition Roof 301	$4,515	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$6,077	-	-	-	
106 - MAC Building - 2003 Library Addition Roof 401	$24,653	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$33,180	-	-	-	
107 - MAC Building - 2003 Library Addition Roof 501	$6,772	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$9,114	-	-	-	
108 - MAC Building - 2003 Library Addition Roof 601	$1,580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$2,127	-	-	-	
109 - MAC Building - 2003 Library Addition Roof 602	$452	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$608	-	-	-	
110 - MAC Building - 2003 Library Addition Roof 603	$902	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,214	-	-	-	
111 - MAC Building - 2003 Library Addition Roof 604	$452	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$608	-	-	-	
112 - MAC Building - 2003 Library Addition Roof 605	$5,719	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,697	-	-	-	
113 - MAC Building - 2003 Library Addition Roof 606	$3,913	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$5,266	-	-	-	
114 - MAC Building - 2003 Library Addition Roof 607	$14,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$19,445	-	-	-	
116 - MAC Building - 1988 Addition Structure																				
120 - MAC Building - Admin 2003 Section	-	-	-	-	-	-	-	-	-	-	$568,770	-	-	-	-	-	-	-	-	
122 - MAC Building - Council Chambers Renovation	-	-	-	-	-	-	-	-	$67,591	-	-	-	-	-	-	-	-	-	$82,393	
123 - MAC Building - Admin Fourth Floor Renovation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$40,870	-	-	-	
124 - MAC Building - Record Retention Centre (Basement)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$46,549	-	-	
126 - MAC Building - Library 2003 Section	-	-	-	-	-	-	-	-	-	-	$695,163	-	-	-	-	-	-	-	-	
5594 - MAC Building - 1st Floor Interior	-	-	-	-	-	-	$42,880	-	-	-	-	-	-	-	-	-	$52,271	-	-	
6769 - MAC - Air Wise Custom Air Handler	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$364,602	-	-	-	
6770 - MAC - Direct Hot water tank #1	-	-	-	-	-	$9,571	-	-	-	-	-	-	-	-	-	-	-	-	-	
6771 - MAC - Direct Hot water tank #2	-	-	-	-	-	$9,571	-	-	-	-	-	-	-	-	-	-	-	-	-	
6772 - MAC - Supply Air Handler#1 4th floor	-	-	$11,184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6773 - MAC - Air Handler Fan#1 4th floor	-	-	$5,592	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6774 - MAC - Supply Air Handler#2 4th floor	-	-	$16,772	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6775 - MAC - Air Handler Fan#2 4th floor	-	-	$5,592	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6776 - MAC - Humidifier 4th floor #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6777 - MAC - Humidifier 4th floor #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6778 - MAC - Air compressor 4th floor	-	-	$3,353	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6779 - MAC - Natural gas boiler #1 - 4th floor	-	-	$190,101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6780 - MAC - Liebert evaporator - IT area	-	-	-	-	-	$59,820	-	-	-	-	-	-	-	-	-	-	-	-	-	
6781 - MAC - Mini split unit IT area evaporator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$22,216	-	
6782 - MAC - Mini split unit IT area evaporator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$22,216	-	
6783 - MAC - Air cooled chiller #1 - 4th floor roof	$161,224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6784 - MAC - Chiller #2 - 5th floor Mechanical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$379,185	-	-	-	
6785 - MAC - Cooling Tower - 5th floor roof	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$182,302	-	-	-	
6786 - MAC - Boiler #2 - 5th floor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$116,672	-	-	-	
6787 - MAC - Boiler #3 - 5th floor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$116,672	-	-	-	

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
6788 - MAC - Generator	-	-	-	-	-	-	-	-	-	-	$330,231	-	-	-	-	-	-	-	-	
6793 - MAC - Heating Circ. Pump #3 - 3HP	-	-	-	-	-	$3,588	-	-	-	-	-	-	-	-	-	-	-	-	-	
6794 - MAC - Heating Circ. Pump #4 - 3HP	-	-	-	-	-	$3,588	-	-	-	-	-	-	-	-	-	-	-	-	-	
6795 - MAC - Chilled water circ. Pump #3 5th fl. 7.5 hp	-	-	-	-	-	$8,974	-	-	-	-	-	-	-	-	-	-	-	-	-	
6796 - MAC - Chilled water circ. Pump #4 5th fl. 7.5 hp	-	-	-	-	-	$8,974	-	-	-	-	-	-	-	-	-	-	-	-	-	
6797 - MAC - Chilled water circ. Pump #5 - 5 hp	-	-	-	-	-	$5,982	-	-	-	-	-	-	-	-	-	-	-	-	-	
6798 - MAC - Chilled water circ. Pump #6 - 5 hp	-	-	-	-	-	$5,982	-	-	-	-	-	-	-	-	-	-	-	-	-	
6799 - MAC - Main fire panel Basement #1	-	-	-	-	-	-	-	-	-	-	$7,927	-	-	-	-	-	-	-	-	
6800 - MAC - Fire Panel NE Entrance #2	-	-	-	-	-	-	-	-	-	-	$7,927	-	-	-	-	-	-	-	-	
6801 - MAC - Fire Panel Library Entrance	-	-	-	-	-	-	-	-	-	-	$7,927	-	-	-	-	-	-	-	-	
6803 - MAC - Elevator #2 - Library	-	-	-	-	-	-	-	-	-	-	$138,696	-	-	-	-	-	-	-	-	
6805 - MAC - 2003 Electrical																				
6807 - MAC - 2003 Mechanical to Interior	-	-	-	-	-	-	-	-	-	-	$1,831,036	-	-	-	-	-	-	-	-	
54319 - MAC Building Interior - 1st Floor Carpet Replacement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$12,425	-	
54437 - MAC Building - Elevator #3 (Frieght)	-	-	-	-	-	-	-	-	-	-	$96,825	-	-	-	-	-	-	-	-	
Newcastle Arena																				
141 - Newcastle Arena Structure	-	-	-	-	-	-	-	$235,438	-	-	-	-	-	-	-	-	-	-	-	
146 - Newcastle Arena Roof 101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$488,383	-	
147 - Newcastle Arena Roof 201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$65,412	-	
148 - Newcastle Arena Roof 301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,339	-	
149 - Newcastle Arena Roof 401	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$54,841	-	-	-	-	
150 - Newcastle Arena Roof 501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$10,811	-	
151 - Newcastle Arena Roof 601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$6,856	-	-	-	-	
153 - Newcastle Arena Interior (2002)	-	-	-	-	-	-	-	-	-	$21,734	-	-	-	-	-	-	-	-	-	
154 - Newcastle Arena Interior (2005 Renovation)	-	-	-	-	-	-	-	-	-	-	-	-	$25,186	-	-	-	-	-	-	
6610 - Furnace #1	-	-	-	$1,454	-	-	-	-	-	$1,638	-	-	-	-	-	$1,844	-	-	-	
6611 - Furnace #2	-	-	-	$1,454	-	-	-	-	-	$1,638	-	-	-	-	-	$1,844	-	-	-	
6612 - Furnace #3	-	-	-	$1,454	-	-	-	-	-	$1,638	-	-	-	-	-	$1,844	-	-	-	
6613 - Furnace #4	-	-	-	$1,454	-	-	-	-	-	$1,638	-	-	-	-	-	$1,844	-	-	-	
6614 - Furnace #5	-	-	-	$1,454	-	-	-	-	-	$1,638	-	-	-	-	-	$1,844	-	-	-	
6615 - Furnace #6	-	-	-	$1,454	-	-	-	-	-	$1,638	-	-	-	-	-	$1,844	-	-	-	
6616 - Dehumidifier #1	-	-	-	-	-	-	-	$10,528	-	-	-	-	-	-	-	-	-	$12,833	-	
6617 - Dehumidifier #2	-	-	-	-	-	-	-	$10,528	-	-	-	-	-	-	-	-	-	$12,833	-	
6618 - Brine Pump	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$17,724	-	-	-	-	
6619 - Brine Header	-	-	-	-	-	-	-	-	-	-	-	$24,095	-	-	-	-	-	-	-	
6621 - Chiller	-	-	-	-	-	-	$14,783	-	-	-	-	-	-	-	-	$17,667	-	-	-	
6622 - Compressor #1	-	-	-	-	-	-	$7,391	-	-	-	-	-	-	-	-	$8,833	-	-	-	
6623 - Electric Motor for Comp #1	-	-	-	-	-	-	$7,391	-	-	-	-	-	-	-	-	$8,833	-	-	-	
6624 - Cooling Tower	-	$13,637	-	-	-	$14,761	-	-	-	$15,977	-	-	-	$17,294	-	-	-	$18,720	-	
6625 - Hot water tank #1	-	-	-	-	-	-	-	-	-	-	-	-	$14,130	-	-	-	-	-	-	
6626 - Hot water tank #2	-	-	-	-	-	-	-	-	-	-	-	-	$14,130	-	-	-	-	-	-	
Newcastle Community Hall																				
157 - Newcastle Community Hall Roof 201	-	-	-	-	-	-	-	-	-	-	-	-	-	$67,371	-	-	-	-	-	
159 - Newcastle Community Hall Roof 401	-	-	-	-	-	-	-	-	-	-	-	-	-	$2,668	-	-	-	-	-	
160 - Newcastle Community Hall Roof 501	-	-	-	-	-	-	-	-	-	-	-	-	-	$20,110	-	-	-	-	-	
161 - Newcastle Community Hall Roof 502	-	-	-	-	-	-	-	-	-	-	-	-	-	$6,716	-	-	-	-	-	
166 - Newcastle Community Hall Interior - Kitchen Addition	-	-	-	-	-	$25,464	-	-	-	-	-	-	-	-	-	-	-	-	-	
167 - Newcastle Community Hall Mechanical - Kitchen Addition	-	-	-	-	-	$164,104	-	-	-	-	-	-	-	-	-	-	-	-	-	
6550 - Boiler	-	-	-	-	-	-	-	$1,813	-	-	-	-	-	-	-	-	-	$2,210	-	
6551 - Natural gas Furnace #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$5,907	-	-	-	-	
6553 - Natural gas Furnace #3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$5,907	-	-	-	-	
Newcastle District Recreation Complex																				
459 - Newcastle District Recreation Complex Roof 101	-	-	-	-	-	-	-	-	-	-	-	$412,459	-	-	-	-	-	-	-	
460 - Newcastle District Recreation Complex Roof 102	-	-	-	-	-	-	-	-	-	-	-	$449,956	-	-	-	-	-	-	-	
461 - Newcastle District Recreation Complex Roof 201	-	-	-	-	-	-	-	-	-	-	-	$98,989	-	-	-	-	-	-	-	
462 - Newcastle District Recreation Complex Roof 202	-	-	-	-	-	-	-	-	-	-	-	$429,708	-	-	-	-	-	-	-	
463 - Newcastle District Recreation Complex Roof 203	-	-	-	-	-	-	-	-	-	-	-	$16,499	-	-	-	-	-	-	-	
5600 - Newcastle Recreation Complex - Interiors	-	-	-	-	-	-	-	-	-	-	-	$13,768	-	-	-	-	-	-	-	
6204 - NDRC - Interior	-	-	-	-	-	-	-	-	-	-	-	$1,093,818	-	-	-	-	-	-	-	
6205 - NDRC - AAON 25 Ton Roof Top Unit #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$76,831	-	
6206 - NDRC - AAON 50 Ton Roof Top Unit #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$122,931	-	
6207 - NDRC - AAON 50 Ton Roof Top Unit #3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$122,931	-	
6208 - NDRC - AAON 16 Ton Roof Top Unit #4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$61,465	-	
6209 - NDRC - Sersco Air Handling Unit #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$39,951	-	
6210 - NDRC - McQuary Air Conditioner #1	-	-	-	-	-	-	$8,824	-	-	-	-	-	-	-	-	-	-	-	-	
6211 - NDRC - McQuary Air Conditioner #2	-	-	-	-	-	-	$8,824	-	-	-	-	-	-	-	-	-	-	-	-	
6213 - NDRC - Unilux Boiler #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$76,831	-	
6214 - NDRC - Unilux Boiler #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$76,831	-	
6215 - NDRC - Direct Hot Water Tank #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$30,733	-	
6216 - NDRC - Direct Hot Water Tank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$30,733	-	
6217 - NDRC - 5hp Boiler #1 Pump	-	$5,708	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6218 - NDRC - 5hp Boiler #2 Pump	-	$5,708	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Asset Management Replacement Requirements
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
6219 - NDRC - 10hp Pump with VPCU	-	-	-	-	-	-	$18,908	-	-	-	-	-	-	-	-	-	-	-	-	
6220 - NDRC - 10hp Pump with VPCU	-	-	-	-	-	-	$18,908	-	-	-	-	-	-	-	-	-	-	-	-	
6221 - NDRC - 1hp Direct Hot Water Tank Pump	-	$2,284	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6222 - NDRC - 1hp Direct Hot Water Tank Pump	-	$2,284	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6223 - NDRC - Pool Pump	-	$2,284	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6224 - NDRC - 1hp DOM Hot Water Pump	-	$2,284	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6225 - NDRC - Pump #9 20hp	-	-	-	-	-	-	$25,212	-	-	-	-	-	-	-	-	-	-	-	-	
6226 - NDRC - Pump #10 20hp	-	-	-	-	-	-	$25,212	-	-	-	-	-	-	-	-	-	-	-	-	
6227 - NDRC - Pump #11 2hp	-	$2,284	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6228 - NDRC - Pump #12	-	$2,284	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6229 - NDRC - Pump #13 10hp	-	-	-	-	-	-	$18,908	-	-	-	-	-	-	-	-	-	-	-	-	
6230 - NDRC - Pump #14 10hp	-	-	-	-	-	-	$18,908	-	-	-	-	-	-	-	-	-	-	-	-	
6231 - NDRC - Pump #15 2hp	-	$2,284	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6232 - NDRC - Pump #16 4.5hp	-	$4,566	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6233 - NDRC - Pump #17	-	$2,284	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6234 - NDRC - Pump #18 25HP	-	-	-	-	-	-	$31,514	-	-	-	-	-	-	-	-	-	-	-	-	
6235 - NDRC - Pump #19 5hp	-	$5,708	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6236 - NDRC - Pump #20 15hp	-	-	-	-	-	-	$18,908	-	-	-	-	-	-	-	-	-	-	-	-	
6237 - NDRC - Sewer Pump #1	-	$17,126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6238 - NDRC - Sewer Pump #2	-	$17,126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6239 - NDRC - Sewer Pump #3	-	$17,126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6240 - NDRC - Sewer Pump #4	-	$17,126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6242 - NDRC - LIFE SAFETY	-	-	-	-	-	-	$29,198	-	-	-	-	-	-	-	-	-	-	-	-	
Newcastle Library																				
467 - Newcastle Library Roof	-	-	-	-	-	-	$284,876	-	-	-	-	-	-	-	-	-	-	-	-	
6571 - Heat Recovery	-	-	-	-	-	-	-	-	-	-	-	$20,478	-	-	-	-	-	-	-	
6572 - Roof Top Unit #1	-	-	-	-	-	-	-	-	-	-	-	$13,651	-	-	-	-	-	-	-	
6573 - Roof Top Unit #2	-	-	-	-	-	-	-	-	-	-	-	$13,651	-	-	-	-	-	-	-	
6574 - Roof Top Unit #3	-	-	-	-	-	-	-	-	-	-	-	$13,651	-	-	-	-	-	-	-	
6575 - Roof Top Unit #4	-	-	-	-	-	-	-	-	-	-	-	$13,651	-	-	-	-	-	-	-	
6576 - Roof Top Unit #5	-	-	-	-	-	-	-	-	-	-	-	$13,651	-	-	-	-	-	-	-	
6577 - Condenser	-	-	-	-	-	-	-	-	-	-	-	$20,478	-	-	-	-	-	-	-	
6578 - Heat Pump	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$22,609	-	-	
6579 - Boiler	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$15,072	-	-	
Newtonville Community Hall																				
225 - Newtonville Community Hall Roof 201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$2,470	-	-	-	-	
226 - Newtonville Community Hall Roof 202	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,065	-	-	-	-	
6632 - Newtonville Community Hall - Roof Top Unit	-	-	-	-	-	-	-	-	$5,567	-	-	-	-	-	-	-	-	-	-	$6,922
Operations Yard # 42																				
339 - Operations Yard # 42 Roof 101	-	-	-	-	-	-	-	-	-	-	-	$60,367	-	-	-	-	-	-	-	
340 - Operations Yard # 42 Sand Dome	-	-	-	-	$337,531	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
341 - Operations Yard # 42 Fuel Pumping System	-	-	-	-	-	-	-	$182,622	-	-	-	-	-	-	-	-	-	-	-	
6628 - Schwank Heaters	-	-	-	-	-	-	-	-	-	-	-	-	$14,130	-	-	-	-	-	-	
Orono Arena																				
128 - Orono Arena Structure	-	-	-	-	-	-	-	-	-	-	-	$356,254	-	-	-	-	-	-	-	
134 - Orono Arena Interior	-	-	-	-	-	-	$51,312	-	-	-	-	-	-	-	-	-	-	-	-	
135 - Orono Arena Mechanical	-	-	-	-	-	-	$285,785	-	-	-	-	-	-	-	-	-	-	-	-	
6590 - Main Control Panel																				
6591 - Chiller	-	-	-	$13,059	-	-	-	-	-	$14,707	-	-	-	-	-	$16,562	-	-	-	
6592 - Rooftop Unit #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$21,781	-	-	
6593 - Hot Water Storage Tank #1	-	-	-	-	$2,649	-	-	-	-	-	-	$3,043	-	-	-	-	-	-	$3,495	
6595 - Brine Pump	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$21,781	-	-	
6596 - Brine Headers	-	-	-	-	-	-	-	-	-	$17,958	-	-	-	-	-	-	-	-	-	
6597 - Dry-o tron Dehumidifier #1	-	-	-	-	-	-	-	-	-	-	-	-	-	$25,035	-	-	-	-	-	
6598 - Dry-o tron Dehumidifier #2	-	-	-	-	-	-	-	-	-	-	-	-	-	$25,035	-	-	-	-	-	
6599 - Hot Water Storage Tank #2	-	-	-	-	-	-	-	-	-	$5,987	-	-	-	-	-	-	-	-	-	
6600 - Furnace #1	-	-	-	-	$1,318	-	-	-	-	-	-	$1,514	-	-	-	-	-	-	$1,739	
6601 - Furnace #2	-	-	-	-	$1,318	-	-	-	-	-	-	$1,514	-	-	-	-	-	-	$1,739	
6603 - Fire Alarm Panel	-	-	-	-	-	-	$2,339	-	-	-	-	-	-	-	-	$2,795	-	-	-	
6604 - Elevator	-	-	$10,686	-	-	-	-	$11,798	-	-	-	-	$13,026	-	-	-	-	$14,382	-	
6605 - Hot Water Storage Tank #3	-	-	-	-	-	-	-	-	-	$5,987	-	-	-	-	-	-	-	-	-	
6606 - Compressor #1	-	-	-	-	-	-	-	-	-	$11,972	-	-	-	-	-	-	-	-	-	
6607 - Electric Motor for Comp #1	-	-	-	-	-	-	-	-	-	$11,972	-	-	-	-	-	-	-	-	-	
6608 - Compressor #2	-	-	-	-	-	-	-	-	-	-	-	-	$18,482	-	-	-	-	-	-	
6609 - Electric Motor for Comp #2	-	-	-	-	-	-	-	-	-	-	-	-	$18,482	-	-	-	-	-	-	
Orono Library																				
270 - Orono Library Structure	-	$96,935	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6633 - Orono Library - Boiler	-	-	-	-	-	-	-	-	-	-	-	-	$6,161	-	-	-	-	-	-	

Asset Management Replacement Requirements
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Orono Operations Depot																				
330 - Orono Operations Depot Roof 101	-	-	-	$71,039	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$95,609	
331 - Orono Operations Depot Roof 201	-	-	-	$13,183	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$17,742	
336 - Orono Operations Depot Salt Shed	$85,144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
337 - Orono Operations Depot Fuel Pumping System	-	-	-	-	-	-	-	$208,881	-	-	-	-	-	-	-	-	-	-	-	
6589 - Shwank Heaters	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$10,635	-	-	-	-	
Orono Town Hall																				
228 - Orono Town Hall Roof 101	-	-	-	-	-	$48,860	-	-	-	-	-	-	-	-	-	-	-	-	-	
229 - Orono Town Hall Roof 102	-	-	-	-	-	$6,364	-	-	-	-	-	-	-	-	-	-	-	-	-	
230 - Orono Town Hall Roof 103	-	-	-	-	-	$470	-	-	-	-	-	-	-	-	-	-	-	-	-	
231 - Orono Town Hall Roof 104	-	-	-	-	-	$470	-	-	-	-	-	-	-	-	-	-	-	-	-	
232 - Orono Town Hall Kitchen	-	-	-	-	-	-	-	-	$53,870	-	-	-	-	-	-	-	-	-	-	
6634 - Boiler #1	-	-	-	-	-	$1,276	-	-	-	-	-	-	-	$1,495	-	-	-	-	-	
6635 - Boiler #2	-	-	-	-	-	$1,276	-	-	-	-	-	-	-	$1,495	-	-	-	-	-	
Rickard Recreational Complex																				
351 - Rickard Recreational Complex Roof 101																				
352 - Rickard Recreational Complex - 1988 Structure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$2,868	-	-	-	
353 - Rickard Recreational Complex Roof 102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$2,868	-	-	-	
354 - Rickard Recreational Complex Roof 103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$2,868	-	-	-	
355 - Rickard Recreational Complex Roof 104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$2,868	-	-	-	
356 - Rickard Recreational Complex Roof 201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$126,715	-	-	-	
359 - Rickard Recreational Complex Roof 701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$80,640	-	-	-	
362 - Rickard Recreational Complex Roof 1101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$188,900	-	-	-	
363 - Rickard Recreational Complex Roof 1102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,407	-	-	-	
365 - Rickard Recreational Complex Roof 401	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$466,437	-	-	
366 - Rickard Recreational Complex Roof 501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$36,685	-	-	
367 - Rickard Recreational Complex Roof 601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$20,183	-	-	
368 - Rickard Recreational Complex Roof 1001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$120,664	-	-	
371 - Rickard Recreational Complex Interior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$211,353	-	
373 - Rickard Recreational Complex Ice Rink	$2,387,510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
376 - Rickard Recreational Complex - 1999 Addition Interior	-	-	-	-	-	-	$304,265	-	-	-	-	-	-	-	-	-	-	-	-	
378 - Rickard Recreational Complex - 1999 Pad B Addition	-	-	-	-	-	-	-	-	-	-	-	$2,884,392	-	-	-	-	-	-	-	
380 - Rickard Recreational Complex - 2006 Addition Interior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$189,544	-	
382 - Rickard Recreational Complex - 2013 HVAC																				
5595 - RRC - Ice Rink - Pad A - Plexiglass and Railings	-	-	-	-	-	-	-	-	-	-	-	$10,377	-	-	-	-	-	-	-	
5596 - RRC - Ice Rink - Pad B - Dasherboard Replacement	-	-	-	-	-	-	-	-	-	-	-	$64,142	-	-	-	-	-	-	-	
5597 - RRC - Ice Rink - Pad B - Overhead Door Replacement	-	-	-	-	-	-	-	-	-	-	-	$35,024	-	-	-	-	-	-	-	
5598 - RRC Mechanical - Life Safety Fire Alarm Horn/Strobe Units	-	-	-	-	-	-	$11,510	-	-	-	-	-	-	-	-	-	$14,031	-	-	
6734 - RRC - Schwank infer red heaters x3	-	-	-	-	-	-	-	-	-	-	-	-	-	$6,289	-	-	-	-	-	
6735 - RRC - On demand heat for water	-	-	-	-	-	-	-	-	$12,663	-	-	-	-	-	-	-	-	-	-	
6736 - RRC - Tankless Hot Water - 1	-	-	-	-	-	-	-	-	$12,663	-	-	-	-	-	-	-	-	-	-	
6737 - RRC - Tankless Hot Water - 2	-	-	-	-	-	-	-	-	$12,663	-	-	-	-	-	-	-	-	-	-	
6738 - RRC - Tankless Hot Water - 3	-	-	-	-	-	-	-	-	$12,663	-	-	-	-	-	-	-	-	-	-	
6739 - RRC - Tankless Hot Water - 4	-	-	-	-	-	-	-	-	$12,663	-	-	-	-	-	-	-	-	-	-	
6740 - RRC - Condenser Tower	-	-	-	-	-	-	-	-	-	-	-	-	-	$153,788	-	-	-	-	-	
6742 - RRC 2011 - Interior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$326,149	
6743 - RRC - HVAC Unit #4	-	$27,570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6744 - RRC - Roof Top Unit # 1	-	-	-	-	-	-	$42,616	-	-	-	-	-	-	-	-	-	-	-	-	
6745 - RRC - Roof Top Unit # 2	-	$27,570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6746 - RRC - Make Up Air Unit - Pad B #1	-	-	-	-	-	-	-	-	-	-	-	-	-	$27,971	-	-	-	-	-	
6747 - RRC - Air Handling Unit #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$49,755	-	-	-	-	
6748 - RRC - Air Handling Unit #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$42,646	-	-	-	-	
6749 - RRC - Unit Heater #3	-	$3,309	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6750 - RRC - Pad B Infrared Heater	-	-	-	-	-	-	-	-	-	$3,863	-	-	-	-	-	-	-	-	-	
6751 - RRC - Unit Heater # 4	-	$3,309	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6752 - RRC - Boiler # 4	-	-	-	-	-	-	-	-	-	$45,065	-	-	-	-	-	-	-	-	-	
6753 - RRC - Boiler # 3	-	-	-	-	-	-	-	-	-	$29,698	-	-	-	-	-	-	-	-	-	
6754 - Pressure Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	$5,593	-	-	-	-	-	
6755 - RRC - Water Storage Tank	-	-	-	-	-	-	$24,351	-	-	-	-	-	-	-	-	-	-	-	-	
6756 - RRC - Compressor #3	-	-	-	-	-	-	$36,528	-	-	-	-	-	-	-	-	-	-	-	-	
6757 - RRC - Compressor #3 motor 50hp	-	-	-	-	-	-	$36,528	-	-	-	-	-	-	-	-	-	-	-	-	
6758 - RRC - Brine Pump Pad B	-	-	-	-	-	-	-	-	-	-	-	-	-	$48,952	-	-	-	-	-	
6759 - RRC - Brine Pump Warm Pad B	-	-	-	-	-	-	-	-	-	-	-	-	-	$48,952	-	-	-	-	-	
6760 - RRC - Condenser Pump	-	-	-	-	-	-	-	-	-	-	-	-	-	$20,978	-	-	-	-	-	
6761 - RRC - Glycol Pump	-	-	-	-	-	-	-	-	-	-	-	-	-	$20,978	-	-	-	-	-	
6762 - RRC - Plate Chiller	-	$66,168	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6763 - RRC - Dehumidification Unit #1	-	$33,084	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6764 - RRC - Dehumidification Unit #2	-	$33,084	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6765 - RRC - LIFE SAFETY	-	$36,391	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6766 - RRC - Electrical	-	-	-	-	-	-	-	-	-	-	-	$389,444	-	-	-	-	-	-	-	
6767 - RRC Score Clock - Pad B	-	-	-	-	$17,493	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$23,543

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6768 - RRC 1999 - Interior	-	-	-	-	-	-	$230,765	-	-	-	-	-	-	-	-	-	-	-	-	
52924 - RRC - Make Up Air Unit #1	-	-	-	$28,505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$38,364	
52925 - RRC - Make Up Air Unit #2	-	-	-	$28,505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$38,364	
52926 - RRC - Make Up Air Unit #3	-	-	-	$28,505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$38,364	
52927 - RRC - Make Up Air Unit #4	-	-	-	$28,505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$38,364	
52928 - RRC - HVAC Unit #1	-	-	-	-	-	-	-	-	-	-	$45,132	-	-	-	-	-	-	-	-	
52929 - RRC - HVAC Unit #2	-	-	-	-	-	-	-	-	$44,061	-	-	-	-	-	-	-	-	-	-	
52930 - RRC - HVAC Unit #3	-	-	-	-	-	-	-	$30,907	-	-	-	-	-	-	-	-	-	-	-	
52931 - RRC - Pad A Infrared Heater	-	-	-	-	-	-	-	-	-	$11,588	-	-	-	-	-	-	-	-	-	
52932 - RRC - Boiler # 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$49,829	-	-	-	
52933 - RRC - Boiler # 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$49,829	-	-	-	
52938 - RRC - Brine Pump Pad A	-	-	-	-	-	-	-	-	-	-	-	-	-	$48,663	-	-	-	-	-	
52939 - RRC - Brine Pump Warm Pad A	-	-	-	-	-	-	-	-	-	-	-	-	-	$48,663	-	-	-	-	-	
52940 - RRC - Plate Chiller	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$92,105	
52941 - RRC - Dehumidification Unit #3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$46,054	
52942 - RRC - Dehumidification Unit #4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$46,054	
52943 - RRC - Electrical	$414,457	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
52944 - RRC Score Clock - Pad A	-	-	-	-	$17,493	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$23,543
54329 - RRC - Olympia Natural Gas Refuel Station	-	-	-	-	-	-	-	-	-	-	-	-	$24,972	-	-	-	-	-	-	
Sarah Jane Williams Heritage Centre																				
174 - Sarah Jane Williams Heritage Centre Roof 101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$116,167	-	-	-	
175 - Sarah Jane Williams Heritage Centre Roof 201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,045	-	-	-	
176 - Sarah Jane Williams Heritage Centre Roof 202	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,045	-	-	-	
177 - Sarah Jane Williams Heritage Centre Roof 203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,045	-	-	-	
178 - Sarah Jane Williams Heritage Centre Roof 204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,045	-	-	-	
179 - Sarah Jane Williams Heritage Centre Roof 205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,045	-	-	-	
180 - Sarah Jane Williams Heritage Centre Roof 206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,045	-	-	-	
181 - Sarah Jane Williams Heritage Centre Roof 207	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,045	-	-	-	
182 - Sarah Jane Williams Heritage Centre Roof 208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,045	-	-	-	
54326 - Sarah Jane Williams Heritage Centre - Boiler	-	-	-	-	-	-	-	-	-	-	-	-	$69,445	-	-	-	-	-	-	
Solina Hall																				
238 - Solina Hall Elevator (Betterment)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$138,530	
6554 - Boiler basement	-	-	-	-	-	-	-	-	-	-	-	-	$3,813	-	-	-	-	-	-	
6555 - Rooftop Unit #1	-	-	-	$840	-	-	-	-	-	$946	-	-	-	-	-	$1,066	-	-	-	
6556 - Rooftop Unit #2	-	-	-	$840	-	-	-	-	-	$946	-	-	-	-	-	$1,066	-	-	-	
54323 - Solina Hall - Roof 101 - Asphalt Shingles	-	-	-	-	-	-	-	-	-	-	-	-	$23,953	-	-	-	-	-	-	
54324 - Solina Hall - Roof 201 - Asphalt Shingles	-	-	-	-	-	-	-	-	-	-	-	-	$4,325	-	-	-	-	-	-	
54325 - Solina Hall - Roof 301 - Asphalt Shingles	-	-	-	-	-	-	-	-	-	-	-	-	$342	-	-	-	-	-	-	
South Courtice Arena																				
411 - South Courtice Arena Roof 101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,045,903	-	-	-	
412 - South Courtice Arena Roof 201	$49,562	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$66,703	-	-	-	
413 - South Courtice Arena Roof 301	$33,749	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$45,421	-	-	-	
414 - South Courtice Arena Roof 401	$28,635	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$38,539	-	-	-	
415 - South Courtice Arena Roof 402	$72,139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$97,090	-	-	-	
416 - South Courtice Arena Roof 403	$22,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$30,282	-	-	-	
417 - South Courtice Arena Roof 501	$77,881	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$104,818	-	-	-	
418 - South Courtice Arena Roof 502	$12,509	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$16,835	-	-	-	
419 - South Courtice Arena Roof 503	$5,506	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,410	-	-	-	
420 - South Courtice Arena Roof 504	$4,485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$6,036	-	-	-	
421 - South Courtice Arena Interior	-	-	-	-	-	-	-	-	-	-	$884,467	-	-	-	-	-	-	-	-	
423 - South Courtice Arena Ice Rink - Pad A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,359,826	-	-	-	
5599 - SCA Interior - Arena Lighting Retrofit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$77,519	-	-	
6287 - South Courtice Arena Ice Rink - Pad B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,359,826	-	-	-	
6355 - SCA - Heat Pump #1	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6356 - SCA - Heat Pump #2	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6357 - SCA - Heat Pump #3	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6358 - SCA - Heat Pump #4	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6359 - SCA - Heat Pump #5	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6360 - SCA - Heat Pump #6	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6361 - SCA - Heat Pump #7	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6362 - SCA - Heat Pump #8	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6363 - SCA - Heat Pump #9	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6364 - SCA - Heat Pump #10	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6365 - SCA - Heat Pump #11	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6366 - SCA - Heat Pump #12	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6367 - SCA - Heat Pump #13	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6368 - SCA - Heat Pump #14	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6369 - SCA - Heat Pump #15	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6370 - SCA - Heat Pump #16	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6371 - SCA - Heat Pump #17	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6372 - SCA - Heat Pump #18	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6373 - SCA - Heat Pump #19	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
6374 - SCA - Heat Pump #20	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6375 - SCA - Heat Pump #21	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6376 - SCA - Heat Pump #22	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6377 - SCA - Heat Pump #23	$6,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6380 - SCA - Plate Chiller #1	-	-	-	-	-	$71,783	-	-	-	-	-	-	-	-	-	-	-	-	-	
6381 - SCA - Plate Chiller #2	-	-	-	-	-	$71,783	-	-	-	-	-	-	-	-	-	-	-	-	-	
6382 - SCA - Air Cooling Tower	-	-	-	-	-	$131,603	-	-	-	-	-	-	-	-	-	-	-	-	-	
6383 - SCA - Glycol Cooling Tower	-	-	-	-	-	$131,603	-	-	-	-	-	-	-	-	-	-	-	-	-	
6397 - SCA - Hot Water Tank #1	-	-	-	-	-	-	-	-	-	-	$26,417	-	-	-	-	-	-	-	-	
6398 - SCA - Hot Water Tank #2	-	-	-	-	-	-	-	-	-	-	$26,417	-	-	-	-	-	-	-	-	
6399 - SCA - Hot Water Tank #3	-	-	-	-	-	-	-	-	-	-	$26,417	-	-	-	-	-	-	-	-	
6400 - SCA - Boiler #1	-	-	-	-	-	-	-	-	-	-	$46,232	-	-	-	-	-	-	-	-	
6401 - SCA - Boiler #2	-	-	-	-	-	-	-	-	-	-	$46,232	-	-	-	-	-	-	-	-	
6402 - SCA - Boiler #3	-	-	-	-	-	-	-	-	-	-	$46,232	-	-	-	-	-	-	-	-	
6403 - SCA - Boiler #4	-	-	-	-	-	-	-	-	-	-	$46,232	-	-	-	-	-	-	-	-	
6404 - SCA - Dehumidification Unit	-	-	-	-	-	$137,584	-	-	-	-	-	-	-	-	-	-	-	-	-	
6405 - Compressor #1	-	-	-	-	-	-	-	-	-	-	$39,629	-	-	-	-	-	-	-	-	
6406 - Compressor #1 50HP Motor	-	-	-	-	-	-	-	-	-	-	$39,629	-	-	-	-	-	-	-	-	
6407 - Compressor #2	-	-	-	-	-	-	-	-	-	-	$39,629	-	-	-	-	-	-	-	-	
6408 - Compressor #2 50HP Motor	-	-	-	-	-	-	-	-	-	-	$39,629	-	-	-	-	-	-	-	-	
6409 - Compressor #3	-	-	-	-	-	-	-	-	-	-	$39,629	-	-	-	-	-	-	-	-	
6410 - Compressor #3 50HP Motor	-	-	-	-	-	-	-	-	-	-	$39,629	-	-	-	-	-	-	-	-	
6411 - Compressor #4	-	-	-	-	-	-	-	-	-	-	$39,629	-	-	-	-	-	-	-	-	
6412 - Compressor #4 50HP Motor	-	-	-	-	-	-	-	-	-	-	$39,629	-	-	-	-	-	-	-	-	
6413 - Heating Glycol pump/7.5 hp moto	$10,836	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6414 - Cooling glycol pump/30hp motor	$16,254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6415 - Cooling glycol pump/30hp motot	$16,254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6416 - SCA - Plate Chiller #3	-	-	-	-	-	$71,784	-	-	-	-	-	-	-	-	-	-	-	-	-	
6417 - Condenser Cooling water pump/motor	$5,418	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6418 - SCA - Elevator	-	-	-	-	-	-	-	-	-	-	$95,105	-	-	-	-	-	-	-	-	
6419 - Sprinkler system air compressor	$8,669	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6420 - SCA - LIFE SAFETY	$190,457	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6421 - SCA - Electrical	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,294,495	-	-	-	
54328 - South Courtice Arena - Refrigeration Plant Main Controls	-	-	-	-	-	-	-	-	-	-	-	-	$59,454	-	-	-	-	-	-	
Tourism Information Office																				
260 - Tourism Information Office Roof 101	-	-	-	-	-	-	-	-	-	-	-	-	-	$16,792	-	-	-	-	-	
261 - Tourism Information Office Roof 201	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,799	-	-	-	-	-	
6557 - Condenser	-	-	-	-	$5,863	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6558 - Forced air furnace #1	-	-	-	-	$5,863	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tyrone Community Hall																				
239 - Tyrone Community Hall Structure	-	-	-	-	-	-	-	-	$221,709	-	-	-	-	-	-	-	-	-	-	
6559 - Tyrone Community Hall - Forced air oil furnace #3	-	-	-	-	$883	-	-	-	-	-	-	$1,014	-	-	-	-	-	-	$1,165	
6560 - Tyrone Community Hall - Forced air oil furnace #1	-	-	$1,376	-	-	-	-	$1,519	-	-	-	-	$1,677	-	-	-	-	$1,852	-	
6561 - Tyrone Community Hall - Forced air oil furnace #2	-	-	$1,376	-	-	-	-	$1,519	-	-	-	-	$1,677	-	-	-	-	$1,852	-	
Visual Art Centre																				
251 - Visual Art Centre Structure	-	-	-	-	-	-	$322,088	-	-	-	-	-	-	-	-	-	-	-	-	
257 - Visual Art Centre 3rd Floor/Fire Escape	-	-	-	-	-	-	-	-	-	-	-	$86,861	-	-	-	-	-	-	-	
258 - Visual Art Centre Landscaping	-	-	-	-	-	-	$393,364	-	-	-	-	-	-	-	-	-	-	-	-	
6636 - Visual Arts Centre - Forced air furnace	-	-	-	-	-	-	-	-	-	$1,615	-	-	-	-	-	-	-	-	-	
6637 - Visual Arts Centre - Unit Heater	-	-	-	-	-	-	-	$1,072	-	-	-	-	-	-	-	-	-	$1,307	-	
6638 - Visual Arts Centre - Condenser	-	-	-	-	-	-	-	-	-	-	$12,009	-	-	-	-	-	-	-	-	
TOTAL BUILDINGS	**$3,975,939**	**$634,212**	**$1,042,150**	**$393,273**	**$2,376,038**	**$1,413,800**	**$2,401,853**	**$2,339,853**	**$931,358**	**$2,354,613**	**$5,419,500**	**$7,098,116**	**$2,320,315**	**$1,552,426**	**$265,315**	**$11,629,090**	**$2,404,747**	**$4,243,428**	**$3,823,660**	**$588,193**
Erosion Control																				
618 - Bowmanville Creek	-	-	-	-	-	-	-	-	-	-	-	-	$154,527	-	-	-	-	-	-	
619 - Farewell Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	$329,683	-	-	-	-	-	
620 - Bowmanville Creek East Branch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$251,849	-	-	-	
621 - Foster Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$354,852	-	-	
622 - Retaining Wall - King & Scugog St.	-	-	-	-	-	-	-	-	$43,055	-	-	-	-	-	-	-	-	-	-	
623 - Bowmanville Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$635,052	
624 - Kendal Drainage	-	-	-	-	-	-	-	-	$218,719	-	-	-	-	-	-	-	-	-	-	
625 - Mill St Newcastle - Retaining Wall	-	-	-	-	-	-	-	-	-	$96,628	-	-	-	-	-	-	-	-	-	
626 - Soper Creek Retaining Wall																				$307,248
627 - Bragg Rd Channel Re-alignment																				
TOTAL EROSION CONTROL	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$261,774**	**$96,628**	**$0**	**$0**	**$154,527**	**$329,683**	**$0**	**$251,849**	**$354,852**	**$0**	**$635,052**	**$307,248**
FLEET																				
Aerial Trucks																				
664 - 2007 PIERCE AERIAL 4 HDL 105	-	-	-	-	-	-	-	-	$1,269,911	-	-	-	-	-	-	-	-	-	-	
684 - 2013 EONE AERIAL TRUCK	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,386,584	-	-	-	-	-	
Attachments																				
628 - 2002 Horst 4000-10 Snow Blade Plow	-	-	-	-	-	-	-	-	$13,721	-	-	-	-	-	-	-	-	-	$16,726	
629 - 2002 Sweeper Broom	-	-	-	-	-	-	-	-	$22,917	-	-	-	-	-	-	-	-	-	$27,936	
630 - 2006 Batwing Aerator 15' BA-1500	-	-	-	-	-	-	-	-	$38,184	-	-	-	-	-	-	-	-	-	$46,546	

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
631 - 2007 Hydraulic Post Driver	-	-	-	-	-	-	-	-	-	$19,564	-	-	-	-	-	-	-	-	-	$23,849
632 - 2008 Horst 4000-10 Snow Blade Plow	$11,177	-	-	-	-	-	-	-	-	-	$13,625	-	-	-	-	-	-	-	-	
633 - 2008 Sweeper Broom	$19,377	-	-	-	-	-	-	-	-	-	$23,621	-	-	-	-	-	-	-	-	
634 - 2009 Horst 4000-10 Snow Blade Plow	-	$16,786	-	-	-	-	-	-	-	-	-	$20,462	-	-	-	-	-	-	-	
635 - 2009 Kverneland Disc Mower 2624	-	$13,377	-	-	-	-	-	-	-	-	-	$16,306	-	-	-	-	-	-	-	
636 - 2010 Drop-in Skid Mount Poly Tank & Pump	-	-	-	-	-	-	$11,172	-	-	-	-	-	-	$12,833	-	-	-	-	-	
637 - 2010 EZ-Scale On Board Weigh System	-	-	-	-	$16,377	-	-	-	-	-	-	-	-	-	-	-	$20,770	-	-	
638 - 2010 Pot Hole Patcher/Pavement Edger	-	$8,661	-	-	-	-	-	-	-	-	$10,350	-	-	-	-	-	-	-	-	$12,369
639 - 2010 Snow Blower	-	-	$10,215	-	-	-	-	-	-	-	-	-	$12,452	-	-	-	-	-	-	
640 - 2010 Sweeper Broom	-	-	$13,814	-	-	-	-	-	-	-	-	-	$16,839	-	-	-	-	-	-	
641 - 2011 LANDSCAPE DUMP BODY/MULTI LIFT	-	$31,440	-	-	-	-	-	-	-	$36,837	-	-	-	-	-	-	-	$43,161	-	
642 - 2011 Pot Hole Patcher/Pavement Edger	-	-	$8,090	-	-	-	-	-	-	-	-	$9,668	-	-	-	-	-	-	-	
643 - 2011 Pot Hole Patcher/Pavement Edger	-	-	-	$7,945	-	-	-	-	-	-	-	-	-	$9,685	-	-	-	-	-	
644 - 2011 P332 FLEXIPROBE STANDARD	-	-	-	$16,954	-	-	-	-	-	-	-	-	-	$20,667	-	-	-	-	-	
645 - 2012 LITTLE TIPSTER DUMP BODY	-	-	$5,888	-	-	-	-	-	-	-	$6,899	-	-	-	-	-	-	-	$8,084	
646 - 2012 LITTLE TIPSTER DUMP BODY	-	-	$5,888	-	-	-	-	-	-	-	$6,899	-	-	-	-	-	-	-	$8,084	
5562 - 2014 SLIP-IN 2600 US GALLON WATER TANK	$26,341	-	-	-	$28,512	-	-	-	$30,863	-	-	-	$33,407	-	-	-	$36,160	-	-	
52952 - 2015 SLIP-IN 2600 US GALLON WATER TANK	-	-	-	-	$25,545	-	-	-	-	-	-	$29,343	-	-	-	-	-	-	$33,706	
54314 - 2015 WALTCO TRUCK LIFTGATE (ATTACHED TO ID#12608)	-	$6,072	-	-	-	$6,573	-	-	-	$7,115	-	-	-	$7,701	-	-	-	$8,336	-	
Cars and Vans																				
668 - 2009 CHEV HHR CAR 12	-	-	-	-	-	$29,413	-	-	-	-	-	-	$33,787	-	-	-	-	-	-	$38,810
669 - 2009 CHEV HHR LT CAR 11	-	-	-	-	-	$27,371	-	-	-	-	-	-	$31,441	-	-	-	-	-	-	$36,115
670 - 2009 CHEV SIL CAR 10	-	-	-	-	-	$46,325	-	-	-	-	-	-	$53,213	-	-	-	-	-	-	$61,125
671 - 2010 CHEVROLET HHR LS CAR 14	-	-	-	-	-	-	$26,659	-	-	-	-	-	-	$30,623	-	-	-	-	-	
672 - 2010 CHEVROLET IMPALA CAR 3	-	-	-	-	-	$37,193	-	-	-	-	-	-	$42,723	-	-	-	-	-	-	$49,076
680 - 2012 CHEV IMPALA CAR 1	-	$38,179	-	-	-	-	-	-	$43,856	-	-	-	-	-	-	$50,376	-	-	-	
685 - 2013 CHEVROLET EXPRESS VAN	-	-	$39,752	-	-	-	-	-	-	$45,663	-	-	-	-	-	-	$52,452	-	-	
691 - 2001 CHEV AST VAN	-	-	-	-	-	$42,316	-	-	-	-	-	-	$48,608	-	-	-	-	-	-	$55,836
702 - 2005 PONTIAC PUR CAR	-	-	-	-	-	$29,935	-	-	-	-	-	-	$34,386	-	-	-	-	-	-	$39,498
723 - 2009 CHEV EXP CARGO VAN	-	-	-	-	-	$35,494	-	-	-	-	-	-	$40,772	-	-	-	-	-	-	$46,834
728 - 2009 DODGE DAKOTA TRUCK	-	-	-	-	-	$32,740	-	-	-	-	-	-	$37,608	-	-	-	-	-	-	$43,200
749 - 2011 FORD TRANSIT CONNECT VAN	$30,193	-	-	-	-	-	-	$34,683	-	-	-	-	-	-	$39,840	-	-	-	-	
750 - 2012 FORD ESCAPE SUV	$29,214	-	-	-	-	-	-	$33,558	-	-	-	-	-	-	$38,548	-	-	-	-	
755 - 2011 CHEV 3/4 TON CARGO VAN	$45,046	-	-	-	-	-	-	$51,744	-	-	-	-	-	-	$59,438	-	-	-	-	
767 - 2013 CHEVROLET EXPRESS VAN	-	-	$39,495	-	-	-	-	-	-	$45,367	-	-	-	-	-	-	$52,112	-	-	
770 - 2013 CHEVROLET EQUINOX	-	-	$33,896	-	-	-	-	-	-	$38,936	-	-	-	-	-	-	$44,726	-	-	
5551 - 2015 CHEVROLET IMPALA - CAR 12	-	-	-	$40,677	-	-	-	-	-	-	$46,725	-	-	-	-	-	-	$53,672	-	
5555 - 2014 CHEVROLET EXPRESS VAN	-	-	-	$37,264	-	-	-	-	-	-	$42,804	-	-	-	-	-	-	$49,169	-	
Heavy Duty Trucks																				
647 - 1990 GMC RESCUE 1 FCC	-	-	-	$844,622	-	-	-	-	-	-	-	-	-	$1,029,589	-	-	-	-	-	
661 - 2006 FORD F550 DRW SCAT 1	-	-	-	-	-	$190,233	-	-	-	-	-	-	$218,518	-	-	-	-	-	-	$251,008
687 - 2000 INTL 20S DUMP TRUCK	-	-	-	-	-	-	-	-	$253,860	-	-	-	-	-	-	-	-	-	$309,454	
689 - 2000 VOLVO WG64 TANDEM	-	-	-	-	-	-	-	-	$267,418	-	-	-	-	-	-	-	-	-	$325,981	
690 - 2000 VOLVO WG64 TANDEM	-	-	-	-	-	-	-	-	$267,418	-	-	-	-	-	-	-	-	-	$325,981	
692 - 2001 VOLVO VHD TANDEM	-	-	-	-	-	-	-	-	$268,871	-	-	-	-	-	-	-	-	-	$327,752	
693 - 2002 INTL 20S TRUCK	-	-	-	-	-	$233,313	-	-	-	-	-	-	$268,003	-	-	-	-	-	-	$307,852
695 - 2003 INTL 40S 3 TON Forestry Truck	-	-	-	-	-	-	-	-	$266,172	-	-	-	-	-	-	-	-	-	$324,463	
697 - 2004 INTL 70S TANDEM	-	-	-	-	-	-	-	-	$387,955	-	-	-	-	-	-	-	-	-	$472,915	
698 - 2004 INTL 70S TANDEM	-	-	-	-	-	-	-	-	$164,307	-	-	-	-	-	-	-	-	-	$200,289	
699 - 2004 STERLING STE TRUCK	-	-	-	-	-	$237,067	-	-	-	-	-	-	$272,315	-	-	-	-	-	-	$312,805
700 - 2005 FORD DRW 2 TON	-	-	-	-	-	-	-	-	$84,893	-	-	-	-	-	-	-	-	-	$103,484	
701 - 2005 INTL 70S TANDEM	-	-	-	-	-	-	-	-	$272,592	-	-	-	-	-	-	-	-	-	$332,288	
703 - 2006 STERLING STE TRUCK	-	-	-	-	-	-	-	-	$275,034	-	-	-	-	-	-	-	-	-	$335,265	
704 - 2006 STERLING STE TRUCK	-	-	-	-	-	-	-	-	$275,151	-	-	-	-	-	-	-	-	-	$335,408	
705 - 2006 STERLING Y11 TRUCK	-	-	-	-	-	-	-	-	$266,321	-	-	-	-	-	-	-	-	-	$324,644	
710 - 2007 GMC C45 2-TON c/w S & P	-	-	-	-	-	-	-	-	-	$118,873	-	-	-	-	-	-	-	-	-	$144,905
711 - 2007 GMC C45 2-TON c/w S & P	-	-	-	-	-	-	-	-	-	$118,727	-	-	-	-	-	-	-	-	-	$144,728
716 - 2007 STERLING STE TANDEM	-	-	-	-	-	-	-	-	-	$282,665	-	-	-	-	-	-	-	-	-	$344,567
717 - 2007 STERLING STE TANDEM	-	-	-	-	-	-	-	-	-	$282,368	-	-	-	-	-	-	-	-	-	$344,205
719 - 2008 INTL 70S TANDEM	-	-	-	-	-	-	-	-	-	$269,764	-	-	-	-	-	-	-	-	-	$328,840
720 - 2008 INTL 70S TANDEM	-	-	-	-	-	-	-	-	-	$269,764	-	-	-	-	-	-	-	-	-	$328,840
721 - 2008 INTL 70S TRUCK	-	-	-	-	-	-	-	-	-	$241,557	-	-	-	-	-	-	-	-	-	$294,456
735 - 2009 GMC GARBAGE COMPACTOR C55	-	$160,439	-	-	-	-	-	-	-	-	-	$195,574	-	-	-	-	-	-	-	
736 - 2009 INTL 70S TANDEM DUMP	-	$234,651	-	-	-	-	-	-	-	-	-	$286,038	-	-	-	-	-	-	-	
737 - 2009 INTL 70S TANDEM DUMP	-	$234,651	-	-	-	-	-	-	-	-	-	$286,038	-	-	-	-	-	-	-	
743 - 2010 INTL SINGLE DUMP TRUCK	-	-	$225,151	-	-	-	-	-	-	-	-	-	$274,458	-	-	-	-	-	-	
744 - 2010 INTL SINGLE DUMP TRUCK	-	$248,511	-	-	-	-	-	-	-	-	-	$302,933	-	-	-	-	-	-	-	
745 - 2010 INTL TANDEM DUMP	-	$261,543	-	-	-	-	-	-	-	-	-	$318,820	-	-	-	-	-	-	-	
756 - 2012 INTL TANDEM DUMP	-	-	-	$218,738	-	-	-	-	-	-	-	-	-	$266,641	-	-	-	-	-	
757 - 2012 INTL SINGLE AXLE DUMP	-	-	-	$117,840	-	-	-	-	-	-	-	-	-	$143,646	-	-	-	-	-	
758 - 2012 FORD GARBAGE COMPACTOR	-	$130,585	-	-	-	-	-	-	$150,001	-	-	-	-	-	-	$172,304	-	-	-	

Asset Management Replacement Requirements
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
762 - 2013 INTL SINGLE DUMP	-	$212,554	-	-	-	-	-	-	$244,157	-	-	-	-	-	-	$280,460	-	-	-	
774 - 2014 INTL SINGLE C/W PLOW EQUIPMENT	-	-	-	-	-	$229,277	-	-	-	-	-	-	-	-	-	$279,487	-	-	-	
805 - 2011 OMCO STREET FLUSHER	-	-	-	$238,177	-	-	-	-	-	-	-	-	-	$290,336	-	-	-	-	-	
813 - 2013 JOHNSTON VACUUM SWEEPER	-	-	-	-	-	$274,496	-	-	-	-	-	-	-	-	-	$334,609	-	-	-	
814 - 2013 JOHNSTON VACUUM SWEEPER	-	-	-	-	-	$274,496	-	-	-	-	-	-	-	-	-	$334,609	-	-	-	
5491 - 2011 OMCO STREET FLUSHER (2013 ANTI ICING BETTERMENT)	-	-	-	$108,081	-	-	-	-	-	-	-	$126,634	-	-	-	-	-	-	-	$148,372
5553 - 2014 INTERNATIONAL 7500 C/W PLOW EQUIPMENT	-	-	-	-	-	-	$233,589	-	-	-	-	-	-	-	-	-	$284,744	-	-	
Ice Resurfacers																				
785 - 2003 OLYMPIA MILL SCA	$97,168	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$130,776	-	-	-	
800 - 2010 OLYMPIA MILLENNIUM SCA	-	-	-	-	-	-	-	$99,347	-	-	-	-	-	-	-	-	-	-	-	
801 - OLYMPIA MILLENNIUM RRC	-	-	-	-	-	$103,822	-	-	-	-	-	-	-	-	-	-	-	-	-	
818 - 2013 Olympia Ice Resurfacer	-	-	-	-	-	-	-	-	-	-	$109,112	-	-	-	-	-	-	-	-	
5493 - Newcastle Arena - Ice Resurfacer	-	-	-	-	-	$115,752	-	-	-	-	-	-	-	-	-	-	-	-	-	
5561 - 2014 OLYMPIA ICE RESURFACER	-	-	-	-	-	-	$101,070	-	-	-	-	-	-	-	-	-	$123,203	-	-	
Light Duty Trucks																				
678 - 2012 FORD F350 3/4 TON PICK UP	-	$50,095	-	-	-	-	-	-	$57,544	-	-	-	-	-	-	$66,100	-	-	-	
679 - 2012 FORD F150 1/2 TON PICK UP	-	$48,372	-	-	-	-	-	-	$55,564	-	-	-	-	-	-	$63,826	-	-	-	
688 - 2000 PACE CS8 SKATEBOARD PARK	-	-	-	-	-	-	-	-	-	-	-	-	-	$60,961	-	-	-	-	-	
707 - 2007 DODGE RPC 1/2 TON - CREW CAB	-	-	-	-	-	$37,660	-	-	-	-	-	-	$43,259	-	-	-	-	-	-	$53,739
708 - 2007 DODGE RPC 3/4 TON - CREW CAB	-	-	-	-	-	$41,577	-	-	-	-	-	-	$47,759	-	-	-	-	-	-	$58,908
712 - 2007 GMC SIE 3/4 TON 4X4 c/w S&P	-	-	-	-	-	$75,813	-	-	-	-	-	-	$87,086	-	-	-	-	-	-	$53,656
724 - 2009 CHEV SIL 1/2 TON 4x4	-	-	-	-	-	$37,596	-	-	-	-	-	-	$43,187	-	-	-	-	-	-	$61,648
725 - 2009 CHEV SIL 3/4 TON EXTEND CAB	-	-	-	-	-	$43,654	-	-	-	-	-	-	$50,144	-	-	-	-	-	-	$62,139
726 - 2009 CHEV SIL 1/2 TON EXTEND CAB	-	-	-	-	-	$44,026	-	-	-	-	-	-	$50,572	-	-	-	-	-	-	$63,297
727 - 2009 CHEV SIL 3/4 TON 4X4	-	-	-	-	-	$44,903	-	-	-	-	-	-	$51,580	-	-	-	-	-	-	$63,100
729 - 2009 DODGE RPC 4x4 1/2 TON	-	-	-	-	-	$44,754	-	-	-	-	-	-	$51,408	-	-	-	-	-	-	$61,715
730 - 2009 DODGE RPC 1/2 TON	-	-	-	-	-	$43,704	-	-	-	-	-	-	$50,202	-	-	-	-	-	-	$61,715
731 - 2009 DODGE RPC 1/2 TON	-	-	-	-	-	$43,704	-	-	-	-	-	-	$50,202	-	-	-	-	-	-	$63,100
732 - 2009 DODGE RPC 1/2 TON 4x4	-	-	-	-	-	$44,754	-	-	-	-	-	-	$51,408	-	-	-	-	-	-	$59,552
738 - 2010 CHEV SILVERADO 1/2 4x4	-	-	-	-	-	-	$33,785	-	-	-	-	-	-	$38,808	-	-	-	-	-	
739 - 2010 CHEV SILVERADO 1/2 TON EXT CAB	-	-	-	-	-	-	$30,776	-	-	-	-	-	-	$35,352	-	-	-	-	-	
740 - 2010 CHEV SILVERADO 1/2 TON EXT CAB	-	-	-	-	-	-	$30,904	-	-	-	-	-	-	$35,499	-	-	-	-	-	
741 - 2010 CHEV SILVERADO 1/2 TON LONG BOX	-	-	-	-	-	-	$28,393	-	-	-	-	-	-	$32,614	-	-	-	-	-	
742 - 2010 FORD F150 1/2 TON EXT CAB	-	-	-	-	-	-	$33,431	-	-	-	-	-	-	$38,402	-	-	-	-	-	
752 - 2011 CHEV SIL 4x4 HALF TON	$28,017	-	-	-	-	-	-	$32,183	-	-	-	-	-	-	$36,968	-	-	-	-	
753 - 2011 CHEV 4x4 HALF TON	$28,517	-	-	-	-	-	-	$32,757	-	-	-	-	-	-	$37,628	-	-	-	-	
754 - 2011 CHEV 4x4 HALF TON	$47,182	-	-	-	-	-	-	$54,197	-	-	-	-	-	-	$62,256	-	-	-	-	
763 - 2012 CHEV SILVERADO 4x4 HALF TON	-	$30,724	-	-	-	-	-	-	$35,292	-	-	-	-	-	-	$40,540	-	-	-	
764 - 2012 CHEV SILVERADO 4x4 3/4 TON	-	$40,711	-	-	-	-	-	-	$46,764	-	-	-	-	-	-	$53,717	-	-	-	
768 - 2013 CHEV SILVERADO 1/2 TON-EXT CAB	-	-	$34,000	-	-	-	-	-	-	$39,056	-	-	-	-	-	-	$44,863	-	-	
769 - 2013 CHEV SILVERADO CHEYENNE 1/2 TON-EXT	-	-	$34,171	-	-	-	-	-	-	$39,252	-	-	-	-	-	-	$45,088	-	-	
771 - 2013 FORD 1/2 TON 4X4	-	-	$30,237	-	-	-	-	-	-	$34,732	-	-	-	-	-	-	$39,897	-	-	
772 - 2014 CHEVROLET SILVERADO W/T 350	-	-	$58,554	-	-	-	-	-	-	$67,260	-	-	-	-	-	-	$77,261	-	-	
773 - 2014 CHEVROLET SILVERADO W/T 350	-	-	$58,554	-	-	-	-	-	-	$67,260	-	-	-	-	-	-	$77,261	-	-	
Loaders/Graders/Chippers																				
777 - 2001 CASE 590 BACKHOE/LOADER	-	-	-	-	-	-	-	-	-	-	-	-	-	$190,350	-	-	-	-	-	
779 - 2001 JD 4400 TRACTOR/LOADER	-	-	-	-	-	-	-	-	-	-	-	-	-	$50,746	-	-	-	-	-	
780 - 2002 CASE 580 LOADER/BACKHOE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$163,421	-	-	-	-	
781 - 2002 CHAMPION G740 VOLVO GRADER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$518,269	-	-	-	-	
786 - 2004 GRADALL XL4100 GRADALL	-	$474,088	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$638,060	-	-	
789 - 2005 VERMEER BC935 BRUSH CHIPPER	-	-	$39,109	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$52,636	-	
794 - 2009 J.D 624K LOADER	-	-	-	-	-	-	$281,798	-	-	-	-	-	-	-	-	-	-	-	-	
795 - 2009 JOHN DEERE GRADER 870G	-	-	-	-	-	-	$404,922	-	-	-	-	-	-	-	-	-	-	-	-	
799 - 2010 GRADALL XL4100-III	-	-	-	-	-	-	-	$461,180	-	-	-	-	-	-	-	-	-	-	-	
807 - 2011 MORBARK CHIPPER	-	-	-	-	-	-	-	-	$45,440	-	-	-	-	-	-	-	-	-	-	
808 - 2012 JOHN DEERE LOADER	-	-	-	-	-	-	-	-	$213,686	-	-	-	-	-	-	-	-	-	-	
817 - 2013 PROMAC BT36" BRUSHCUTTER	-	-	$46,800	-	-	-	-	-	-	$53,759	-	-	-	-	-	-	$61,752	-	-	
52950 - 2015 JOHN DEERE 624K LOADER	-	-	-	-	-	-	-	-	-	-	-	-	$323,879	-	-	-	-	-	-	
Medium Duty Trucks																				
659 - 2005 CHEV UTILITY 1 SIL	-	-	-	-	-	$82,201	-	-	-	-	-	-	$94,423	-	-	-	-	-	-	$108,463
677 - 2011 CHEV ONE TON CREW CAB TRUCK	$48,130	-	-	-	-	-	-	$55,286	-	-	-	-	-	-	$63,506	-	-	-	-	
694 - 2003 CHEV C45 2 -TON	-	-	-	-	-	$66,117	-	-	-	-	-	-	$75,948	-	-	-	-	-	-	$87,240
706 - 2007 DODGE RPC 1 TON - 4X4	-	-	-	-	-	$38,790	-	-	-	-	-	-	$44,557	-	-	-	-	-	-	$51,183
709 - 2007 FORD CTV 1 TON VAN	-	-	-	-	-	$75,235	-	-	-	-	-	-	$86,422	-	-	-	-	-	-	$99,272
718 - 2008 DODGE RPC 1-TON CREW CAB DUMP	-	-	-	-	-	$84,539	-	-	-	-	-	-	$97,108	-	-	-	-	-	-	$111,547
733 - 2009 FORD DRW 1-TON CREW CAB DUMP	-	-	-	-	-	$72,059	-	-	-	-	-	-	$82,774	-	-	-	-	-	-	$95,081
734 - 2009 FORD DRW 1-TON DUMP	-	-	-	-	-	$66,221	-	-	-	-	-	-	$76,067	-	-	-	-	-	-	$87,377
747 - 2011 FORD F450 1 TON DUMP	-	-	-	-	-	-	$85,614	-	-	-	-	-	-	$98,344	-	-	-	-	-	
751 - 2011 FORD ONE TON CREW CAB	$62,193	-	-	-	-	-	-	$71,440	-	-	-	-	-	-	$82,062	-	-	-	-	

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
759 - 2012 FORD 4x4 ONE TON CREW CAB	-	$61,786	-	-	-	-	-	-	$70,972	-	-	-	-	-	-	$81,525	-	-	-	
760 - 2012 GMC SIERRA 4x4 ONE TON	-	$60,202	-	-	-	-	-	-	$69,154	-	-	-	-	-	-	$79,436	-	-	-	
766 - 2012 FORD F450 SIGN TRUCK	-	-	$81,578	-	-	-	-	-	-	$93,707	-	-	-	-	-	-	$107,640	-	-	
5554 - 2014 FORD TWO TON DUMP TRUCK	-	-	-	$76,270	-	-	-	-	-	-	$87,610	-	-	-	-	-	-	$100,637	-	
5556 - 2015 GMC ONE TON 4X4 C/W PLOW EQUIPMENT	-	-	-	$55,862	-	-	-	-	-	-	$64,168	-	-	-	-	-	-	$73,709	-	
Pumpers																				
652 - 2003 FRHT PUMPER 2 MCV	-	-	-	-	-	-	-	-	$941,744	-	-	-	-	-	-	-	-	-	$1,147,981	
653 - 2003 FRHT PUMPER 5 MCV	-	-	-	-	-	-	-	-	$941,744	-	-	-	-	-	-	-	-	-	$1,147,981	
658 - 2004 SPAR PUMPER 4 GA4	-	-	-	-	-	-	-	-	$923,279	-	-	-	-	-	-	-	-	-	$1,125,471	
660 - 2005 FRHT PUMPER 44 FM2	-	-	-	-	-	-	-	-	$941,744	-	-	-	-	-	-	-	-	-	$1,147,981	
665 - 2007 PIERCE PUMPER 11 CUS	-	-	-	-	-	-	-	-	-	$960,579	-	-	-	-	-	-	-	-	-	$1,170,940
667 - 2008 SPARTAN PUMPER 3	-	$819,845	-	-	-	-	-	-	-	-	-	$999,386	-	-	-	-	-	-	-	
674 - Betterment - add hurst tool 2006 (Pumper #44)	-	-	-	-	-	-	$51,134	-	-	-	-	-	-	-	$59,911	-	-	-	-	
675 - Betterment - add hurst tool 2005 (Pumper #5)	-	-	-	-	-	-	-	$42,609	-	-	-	-	-	-	-	-	$50,921	-	-	
676 - Betterment - add hurst tool 2005 (Pumper #4)	-	-	-	-	-	-	-	$61,749	-	-	-	-	-	-	-	-	$73,796	-	-	
681 - 2012 SPARTAN PUMPER	-	-	-	-	$870,026	-	-	-	-	-	-	-	-	-	$1,060,557	-	-	-	-	
52947 - 2015 SPARTAN GLADIATOR PUMPER - ID #27	-	-	-	-	-	-	-	$923,279	-	-	-	-	-	-	-	-	-	$1,125,471	-	
Tankers																				
648 - 1999 GMC TANKER 1 CSR	-	-	-	-	-	-	-	-	-	-	-	-	-	$361,131	-	-	-	-	-	
649 - 1999 GMC TANKER 4 CSR	-	-	-	-	-	-	-	-	-	-	-	-	-	$361,131	-	-	-	-	-	
656 - 2004 FRHT TANKER 2 MCV	-	$284,749	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$383,235	-	-	
663 - 2007 INTL TANKER 3 70S	-	-	-	-	$302,178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$406,692
673 - 2010 FRHT TANKER 5	-	-	-	-	-	-	$314,386	-	-	-	-	-	-	-	-	-	-	-	-	
Tractors/Mowers/ATV's																				
655 - 2003 POLARIS 500 ATV - RANGER	-	-	-	-	-	-	-	-	$17,406	-	-	-	-	-	-	-	-	-	$21,218	
682 - 2013 POLARIS ATV	-	-	-	-	-	$34,929	-	-	-	-	-	-	-	-	-	$42,579	-	-	-	
775 - 1992 MOWER - John Deere	-	-	-	-	-	-	-	-	$31,151	-	-	-	-	-	-	-	-	-	$37,973	
782 - 2003 NEW HOLLAND TC33D TRACTOR	-	-	-	-	-	-	-	-	$36,615	-	-	-	-	-	-	-	-	-	$44,633	
783 - 2003 NEW HOLLAND TC33D TRACTOR	-	-	-	-	-	-	-	-	$38,918	-	-	-	-	-	-	-	-	-	$47,440	
788 - 2005 JD 6320 TRACTOR	-	-	-	-	-	-	-	-	$185,710	-	-	-	-	-	-	-	-	-	$226,380	
790 - 2006 CASE TRACTOR	-	-	-	-	-	-	-	-	$61,771	-	-	-	-	-	-	-	-	-	$75,299	
797 - 2010 EXMARK 60" Zero Turn Mower	-	-	$14,137	-	-	-	-	-	-	-	-	-	$17,232	-	-	-	-	-	-	
798 - 2010 EXMARK 60" Zero Turn Mower	-	-	$14,196	-	-	-	-	-	-	-	-	-	$17,305	-	-	-	-	-	-	
802 - 2011 60" 2930 ZERO TURN MOWER	-	-	-	$15,872	-	-	-	-	-	-	-	-	-	$19,348	-	-	-	-	-	
803 - 2011 60" 2930 ZERO TURN MOWER	-	-	-	$15,863	-	-	-	-	-	-	-	-	-	$19,337	-	-	-	-	-	
804 - 2011 60" 2930 ZERO TURN MOWER	-	-	-	$15,910	-	-	-	-	-	-	-	-	-	$19,394	-	-	-	-	-	
809 - 2012 JOHN DEERE 6430 TRACTOR	-	-	-	-	$143,430	-	-	-	-	-	-	-	-	-	$174,841	-	-	-	-	
815 - 2012 JOHN DEERE TRACTOR	-	-	-	-	-	$239,712	-	-	-	-	-	-	-	-	-	$292,208	-	-	-	
816 - 2013 J.D. TRACTOR W/BLADE,MOWER,BROOM	-	-	-	-	-	$188,896	-	-	-	-	-	-	-	-	-	$230,263	-	-	-	
5559 - 2014 JOHN DEERE TRACTOR	-	-	-	-	-	-	$14,251	-	-	-	-	-	-	-	-	-	$17,372	-	-	
5560 - 2014 JOHN DEERE TRACTOR	-	-	-	-	-	-	$14,251	-	-	-	-	-	-	-	-	-	$17,372	-	-	
Trailers																				
650 - 1999 JDJ GENERATOR TRAILER & Generator	-	$84,753	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
651 - 2003 CONT ATV TRAILER CC8	-	-	-	-	-	-	-	-	$13,096	-	-	-	-	-	-	-	-	-	$15,964	
654 - 2003 NORTHLANDER TRAILER	-	-	-	-	-	-	-	-	$66,126	-	-	-	-	-	-	-	-	-	$80,607	
666 - 2007 ZODIAC/TRAILER MKII	-	-	-	-	-	-	-	-	$28,556	-	-	-	-	-	-	-	-	-	$34,810	
683 - 2014 UNITED JENPRO TRAILER	-	-	-	-	-	$13,281	-	-	-	-	-	-	-	-	-	$16,190	-	-	-	
713 - 2007 J&J LD2 TRAILER	-	-	-	-	-	$11,844	-	-	-	-	-	-	$13,605	-	-	-	-	-	-	$15,628
714 - 2007 J&J LD2 TRAILER	-	-	-	-	-	$11,844	-	-	-	-	-	-	$13,605	-	-	-	-	-	-	$15,628
715 - 2007 JDJ TRAILER & pressure washer	-	-	-	-	-	-	-	-	-	$20,231	-	-	-	-	-	-	-	-	-	$24,661
722 - 2008 JENSEN CUSTOM TANDEM TRAILER	$15,955	-	-	-	-	-	-	-	-	-	$19,448	-	-	-	-	-	-	-	-	
746 - 2010 JENPRO TRAILER	-	-	-	-	-	$9,742	-	-	-	-	-	-	$11,191	-	-	-	-	-	-	$12,854
761 - 2012 WEBERLANE TANDEM TRAILER	-	-	-	-	$7,282	-	-	-	-	-	-	-	-	-	$8,876	-	-	-	-	
765 - 2012 UNITED 7x14 RAMP TANDEM TRAILER	-	-	-	-	$8,657	-	-	-	-	-	-	-	-	-	$10,553	-	-	-	-	
796 - 2010 CULVERT STEAMER W/ TANDEM TRAILER	-	-	-	-	-	-	-	-	-	-	-	-	$36,655	-	-	-	-	-	-	
806 - 2011 REMOTE CONTROL FLAGMAN TRAILER	-	-	-	$14,770	-	-	-	-	-	-	-	-	-	$18,005	-	-	-	-	-	
812 - 2012 REMOTE CONTROL FLAGMAN TRAILER	-	-	-	-	$14,890	-	-	-	-	-	-	-	-	-	$18,151	-	-	-	-	
5552 - 2014 FELLING TANDEM TRAILER	-	-	-	-	-	-	$31,480	-	-	-	-	-	-	-	-	-	$38,374	-	-	
5557 - 2015 CANADA DUMP TRAILER	-	-	-	$8,454	-	-	-	-	-	-	$9,711	-	-	-	-	-	-	$11,155	-	
5558 - 2014 STAGELINE MOBILE STAGE	-	-	-	-	-	-	-	-	-	-	-	$183,818	-	-	-	-	-	-	-	
52948 - 2015 MIDD REHAB TRAILER	-	-	-	-	-	-	-	$48,437	-	-	-	-	-	-	-	-	-	$59,045	-	
52949 - 2015 CANADA TRAILER W/SCISSOR LIFT	-	-	-	-	-	-	-	$30,085	-	-	-	-	-	-	-	-	-	$36,674	-	
Unlicensed Fleet Equipment																				
776 - 1992 TOP DRESSER - Ty-Crop	-	-	-	-	-	-	-	-	$31,221	-	-	-	-	-	-	-	-	-	$38,058	
787 - 2005 BOBCAT S250	-	-	$67,132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$90,351	-	
793 - 2007 J.D. GATOR	-	-	-	-	-	-	-	-	-	$22,644	-	-	-	-	-	-	-	-	-	$27,603
810 - 2012 JOHN DEERE GATOR	-	-	-	-	$24,117	-	-	-	-	-	-	-	-	-	$29,398	-	-	-	-	
811 - 2012 TEREX COMPACT EXCAVATOR	-	-	-	-	$70,974	-	-	-	-	-	-	-	-	-	$86,517	-	-	-	-	
52951 - 2015 COMPACT ROLLER	-	-	-	-	-	-	-	-	-	$26,800	-	-	-	-	-	-	-	-	-	
TOTAL FLEET	**$488,510**	**$3,552,774**	**$860,657**	**$1,833,299**	**$1,511,988**	**$3,443,371**	**$1,727,615**	**$2,032,534**	**$9,717,099**	**$3,202,480**	**$440,972**	**$2,775,020**	**$2,986,108**	**$4,577,727**	**$2,550,740**	**$2,549,005**	**$2,287,059**	**$1,704,016**	**$9,050,802**	**$6,334,028**

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PARKS	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Court																				
1546 - Avondale Park Tennis Courts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$81,850	-	-	-	-	
1547 - Clarington Corners Green Park Tennis Courts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$129,140	-	
1548 - Guildwood Park Tennis Courts	-	-	-	-	-	-	-	-	-	$92,602	-	-	-	-	-	-	-	-	-	
1549 - Lord Elgin Tennis Courts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$103,938	
1551 - Orono Park Tennis Courts	-	-	-	-	-	-	-	-	-	$80,285	-	-	-	-	-	-	-	-	-	
1552 - Solina Park Tennis Courts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$96,650	
1553 - Lions Park (Beech Centre) Tennis Courts	-	-	-	-	-	-	-	-	-	$80,873	-	-	-	-	-	-	-	-	-	
1554 - Stuart Park Tennis Courts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$50,341	
1555 - Barlow Court Park Basketball Court	-	-	-	-	-	-	-	-	-	$17,687	-	-	-	-	-	-	-	-	-	
1556 - Bons Park Basketball Court	-	-	-	-	-	-	-	-	-	$8,862	-	-	-	-	-	-	-	-	-	
1557 - Brookhouse Park Basketball Court	-	-	-	-	$9,855	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1558 - Clarington Corners Green Park Basketball Court	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$17,020	-	
1559 - Elliot Memorial Park Basketball Court	-	-	-	-	$12,066	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1561 - Gatehouse Parkette Basketball Court	-	-	-	-	$12,464	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1562 - Glenabbey Parkette Basketball Court	-	-	-	-	$11,312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1563 - Guildwood Park Basketball Court	-	-	-	-	-	-	-	-	-	$46,557	-	-	-	-	-	-	-	-	-	
1564 - Highland Gardens Park Basketball Court	-	-	-	-	$11,633	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1565 - Lord Elgin Basketball Court	$27,126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1566 - Moyse Parkette Basketball Court	-	-	-	-	-	-	-	-	-	$13,322	-	-	-	-	-	-	-	-	-	
1567 - Orono Park Basketball Court	$11,515	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1568 - Pearce Farm Park Basketball Court	-	-	-	-	-	-	-	-	-	$44,819	-	-	-	-	-	-	-	-	-	
1569 - Rosswell Park Basketball Court	-	-	-	-	$33,959	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1570 - Soper Creek Basketball Court	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$37,673	
1571 - South Courtice Arena Basketball Court	-	-	-	-	-	-	-	-	-	$35,945	-	-	-	-	-	-	-	-	-	
1572 - Stuart Park Basketball Court	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,924	
1573 - Tyrone Park Basketball Court	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$41,511	
1574 - Walbridge Park Basketball Court	-	-	-	-	$27,529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1575 - Andrew Street Parkette Basketball Court	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$15,920	
1576 - Optimist Park (Waverly) Basketball Court	-	-	-	-	$28,552	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1577 - Solina Park Basketball Court	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$6,664	
52953 - Stuart Park Tennis Courts - Surface (2015 Resurfacing)	-	-	-	-	-	-	-	-	-	-	-	-	$24,895	-	-	-	-	-	-	
52954 - Clarington Corners Green Park Tennis Courts (2015 Resurfacing)	-	-	-	-	-	-	-	-	-	-	-	-	$21,138	-	-	-	-	-	-	
52955 - Clarington Corners Green Park Basketball Court (2015 Resurfacing)	-	-	-	-	-	-	-	-	-	-	-	-	$15,097	-	-	-	-	-	-	
52956 - Stuart Park Basketball Court (2015 Resurfacing)	-	-	-	-	-	-	-	-	-	-	-	-	$17,781	-	-	-	-	-	-	
Play Fields																				
1582 - Bowmanville Indoor Soccer Lacrosse Bowl	-	-	-	-	-	-	-	-	-	-	-	-	$501,563	-	-	-	-	-	-	
1583 - BIS Lacrosse Bowl addition new fencing	-	-	-	-	-	-	-	-	-	-	-	-	$45,263	-	-	-	-	-	-	
5609 - South Courtice Artificial Turf Field - Surface	-	-	-	-	-	-	-	-	$547,879	-	-	-	-	-	-	-	-	-	-	
Playground Equipment																				
1731 - Andrew Street Playground	$46,424	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$62,480	-	-	-	
1732 - Argent Park Playground	-	-	-	-	-	-	-	-	-	-	-	-	-	$117,407	-	-	-	-	-	
1733 - Avondale Park Playground	-	-	-	-	-	-	$44,812	-	-	-	-	-	-	-	-	-	-	-	-	
1734 - Barlow Court Park Playground	-	-	$76,856	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$103,438	-	
1735 - Baseline Park Playground	-	-	-	-	-	-	-	-	-	-	-	-	-	$23,523	-	-	-	-	-	
1736 - Baxter Park (Aspen Springs) Playground	-	-	-	-	-	-	$134,093	-	-	-	-	-	-	-	-	-	-	-	-	
1737 - Bons Park (Knox Neighbourhood) Playground	-	-	-	-	-	-	$118,373	-	-	-	-	-	-	-	-	-	-	-	-	
1738 - Bowmanville Memorial Park Playground	-	-	$34,289	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$46,149	-	
1739 - Brookhouse Park Playground	-	-	$77,403	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$104,174	-	
1740 - Burketon Park Playground	$60,754	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$81,767	-	-	-	
1741 - Cecil Found Memorial Park Tot Park	-	-	-	$54,142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$72,868	
1743 - Darlington Hydro Fields Playground	-	-	-	-	-	-	-	-	-	-	-	-	-	$44,068	-	-	-	-	-	
1744 - Edward Park Playground	-	-	-	-	-	-	-	-	-	-	-	-	-	$23,523	-	-	-	-	-	
1745 - Elephant Hill Park Playground	$36,294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$48,847	-	-	-	
1746 - Elliot Park Playground	-	-	-	-	-	$31,954	-	-	-	-	-	-	-	-	-	-	-	-	-	
1747 - Firwood Park Playground	-	-	-	$11,985	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$16,130	
1749 - Gate House Parkette Tot Park	-	-	-	$15,367	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$20,681	
1750 - Glanville Parkette Tot Park	-	-	-	-	$11,097	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$14,935
1751 - Glenabby Parkette Tot Park	-	$53,451	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$71,938	-	-	
1752 - Guildwood Park Playground	$86,332	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$116,192	-	-	-	
1753 - Harvey Jackson (Kendal Park) Playground	-	-	-	-	-	-	-	-	-	-	-	-	-	$23,523	-	-	-	-	-	
1754 - Haydon Hall Parkette	-	-	-	-	-	-	-	-	-	-	-	-	-	$23,523	-	-	-	-	-	
1756 - Ina Brown Tot Park	-	-	-	-	-	-	-	-	-	-	-	-	-	$23,523	-	-	-	-	-	
1757 - Landerville Parkette Tot Park	-	-	$32,254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$43,410	-	
1758 - Lions Park Playground	-	-	-	-	-	$19,144	-	-	-	-	-	-	-	-	-	-	-	-	-	
1759 - Longworth Park Playground	-	-	$38,302	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$51,549	-	
1760 - Lord Elgin Playground	-	-	-	-	$33,459	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$45,032
1761 - Mearns Park Playground	-	-	-	-	-	-	-	-	-	-	-	-	-	$23,523	-	-	-	-	-	
1762 - Moyse Parkette Tot Park	-	-	-	$27,447	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$36,941	
1763 - Orono Park Playground	-	-	-	-	-	-	-	-	-	-	-	-	-	$44,068	-	-	-	-	-	

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
1764 - Pearce Farm Park Playground	-	-	$79,459	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$106,942	-	
1765 - Penfound Park Playground	$49,287	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$66,334	-	-	-	
1766 - Peters Pike Parkette Tot Park	$33,935	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$45,672	-	-	-	
1768 - Rhonda Park Playground	-	$45,095	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$60,692	-	-	
1769 - Rick Gay Memorial Park Playground	-	-	-	-	-	-	-	$43,476	-	-	-	-	-	-	-	-	-	-	-	
1770 - Rickard Community Complex Playground	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$120,973	-	-	-	-	
1771 - Rosswell Park (Robinson Ridge) Playground	-	-	-	-	-	-	-	-	-	-	-	-	-	$44,068	-	-	-	-	-	
1772 - Solina Park Playground	-	-	-	-	-	-	-	-	-	-	-	-	-	$44,068	-	-	-	-	-	
1773 - Soper Creek Playground	-	-	-	$36,673	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$49,357	
1774 - Stuart Park Playground	-	$62,030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$83,484	-	-	
1775 - Tyrone Park Playground	-	-	-	-	-	-	-	-	-	-	-	-	-	$44,068	-	-	-	-	-	
1776 - Walbridge Park Playground	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$99,339	-	-	-	-	
1777 - West Side Park Playground	-	-	-	-	$4,773	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$6,423
1778 - Westside Park Playground	-	-	-	-	-	-	$18,477	-	-	-	-	-	-	-	-	-	-	-	-	
1779 - Whitecliff Parkette Tot Park	-	-	-	-	-	-	-	-	-	-	-	-	-	$23,523	-	-	-	-	-	
1780 - Foxhunt Parkette Tot Park	-	-	-	-	-	-	-	-	$36,536	-	-	-	-	-	-	-	-	-	-	
1781 - Nelson Street Parkette Playground	-	-	-	-	-	-	-	-	-	$113,392	-	-	-	-	-	-	-	-	-	
1782 - Mearns Avenue Park Playground	-	-	-	-	-	-	-	-	-	$47,266	-	-	-	-	-	-	-	-	-	
1783 - Whitecliffe Parkette Playground	-	-	-	-	-	-	-	-	-	$51,731	-	-	-	-	-	-	-	-	-	
1784 - Hancock Park Playground	-	-	-	-	-	-	-	-	-	-	$145,808	-	-	-	-	-	-	-	-	
1785 - Courtice West Park Playground	-	-	-	-	-	-	-	-	-	-	$41,475	-	-	-	-	-	-	-	-	
1786 - Newcastle Memorial Park Playground	-	-	-	-	-	-	-	-	-	-	$56,348	-	-	-	-	-	-	-	-	
1787 - Squire Fletcher Playground	-	-	-	-	-	-	-	-	$91,874	-	-	-	-	-	-	-	-	-	-	
52966 - Scugog Street Park Playground	-	-	-	-	-	-	-	-	-	-	-	-	$205,868	-	-	-	-	-	-	
52967 - Westvale Parkette Playground	-	-	-	-	-	-	-	-	-	-	-	-	$80,978	-	-	-	-	-	-	
52968 - Port Darlington Waterfront Park (East Beach) Playground	-	-	-	-	-	-	-	-	-	-	-	-	$205,511	-	-	-	-	-	-	
52969 - Highland Gardens Park Playground	-	-	-	-	-	-	-	-	-	-	-	-	$48,920	-	-	-	-	-	-	
52970 - Foster Creek Parkette Playground	-	-	-	-	-	-	-	-	-	-	-	-	$52,560	-	-	-	-	-	-	
52971 - Green Park Playground	-	-	-	-	-	-	-	-	-	-	-	-	$58,896	-	-	-	-	-	-	
52972 - Pickard Gate Parkette Playground	-	-	-	-	-	-	-	-	-	-	-	-	$55,780	-	-	-	-	-	-	
Playground Equipment-Water																				
1788 - Glenabby Parkette Water/Splash Pad	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$142,483	
1789 - Avondale Park Water/Splash Pad	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$145,311
1790 - West Side Park Water/Splash Pad	-	-	$103,063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1791 - Rosswell Park (Robinson Ridge) Water/Splash Pad	-	-	-	-	$135,535	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1792 - Walbridge Park Water/Splash Pad	-	-	-	-	$122,050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1793 - Guildwood Park Water/Splash Pad	-	-	-	-	-	$137,770	-	-	-	-	-	-	-	-	-	-	-	-	-	
1794 - Bowmanville Memorial Park - Water/Splash Pad	-	-	-	-	-	-	$126,566	-	-	-	-	-	-	-	-	-	-	-	-	
1796 - Pearce Farm Park Water/Splash Pad	-	-	-	-	-	-	-	$273,455	-	-	-	-	-	-	-	-	-	-	-	
1797 - Avondale Park add rubber safety surface Water/Splash Pad	-	$10,961	-	-	-	-	-	-	-	-	-	$13,362	-	-	-	-	-	-	-	
1798 - Baxter Park (Aspen Springs) Water/Splash Pad	-	-	-	-	-	-	-	-	-	-	-	$190,965	-	-	-	-	-	-	-	
1799 - Bons Park (Knox Neighbourhood) Water/Splash Pad	-	-	-	-	-	-	-	-	-	-	-	$206,589	-	-	-	-	-	-	-	
1800 - Westside Park add rubber safety surface Water/Splash Pad	-	$10,102	-	-	-	-	-	-	-	-	-	$12,314	-	-	-	-	-	-	-	
1801 - Guildwood Park add rubber safety surface Water/Splash Pad	-	-	-	-	$37,035	-	-	-	-	-	-	-	-	-	$45,145	-	-	-	-	
1802 - Hancock Park Splash Pad	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$206,390	-	-	-	
1803 - Walbridge add rubber safety surface Water/Splash Pad	-	-	-	-	$16,769	-	-	-	-	-	-	-	-	$20,040	-	-	-	-	-	
5610 - Orono Park Water/Splash Pad	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$104,903	-	-	
52957 - Rosswell Park (Robinson Ridge) Splash Pad Resurface	-	-	-	-	$20,011	-	-	-	-	-	-	$22,986	-	-	-	-	-	-	$26,404	
52973 - Longworth Park Splash Pad	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$267,033	-	
52974 - Port Darlington Waterfront Park (East Beach) Splash Pad	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$562,572	-	
Structures																				
1673 - Highland Gardens	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$37,758	
1675 - Bowmanville Memorial Park	$53,997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1676 - Bowmanville Memorial Park																				
1677 - Burketon Park	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$40,456	
1680 - Orono Park - Washroom																				
1682 - Orono Park	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$40,456	
1683 - Mearns Park	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$40,601	
1684 - Foxhunt Parkette	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$39,933	
1686 - Longworth Park	-	-	-	-	-	-	$54,975	-	-	-	-	-	-	-	-	-	-	-	-	
1687 - Penfound Park	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$36,574	
1690 - Glenabbey Parkette	-	-	-	-	-	-	-	$56,294	-	-	-	-	-	-	-	-	-	-	-	
1693 - Rotary Park	-	-	-	-	-	-	-	$126,487	-	-	-	-	-	-	-	-	-	-	-	
1696 - Avondale Park	-	-	-	-	-	-	-	-	-	$39,603	-	-	-	-	-	-	-	-	-	
1698 - West Side Park	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$37,749
1700 - Newcastle Cenotaph	-	-	-	-	-	-	-	-	-	-	-	-	$64,253	-	-	-	-	-	-	
1701 - Argent Park	-	-	-	-	-	-	-	-	-	-	-	-	-	$37,608	-	-	-	-	-	
1702 - Clarington Corners Green Park	-	-	-	-	-	-	-	-	-	-	-	-	-	$76,256	-	-	-	-	-	
1704 - Rosswell Park (Robinson Ridge)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$72,943	-	-	-	-	
1705 - Walbridge Park	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$19,964	-	-	-	-	
1707 - Barlow Court Park	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$86,676	-	

Asset Management Replacement Requirements
2018 to 2037
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
1709 - Brookhouse Park	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$63,929	-	
1711 - Landerville Parkette	-	-	-	-	-	-	-	$33,776	-	-	-	-	-	-	-	-	-	-	-	
1713 - Pearce Farm Park	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$84,856	-	
1715 - Clarington Fields	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$83,784	
1716 - Samuel Wilmot Nature Area	-	-	-	-	-	-	-	-	$36,055	-	-	-	-	-	-	-	-	-	-	
1720 - Squire Fletcher Parkette	-	-	-	-	-	-	-	-	-	-	-	-	-	$27,088	-	-	-	-	-	
1724 - Nelson Street Parkette	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$36,318	-	-	-	-	
1727 - Ida Brown Parkette	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$22,761	-	-	-	-	
1728 - Hancock Park	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$22,048	-	-	-	
Trails & Paths																				
1836 - Andrew Street Parkette Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$12,865	
1837 - Argent Park Trail	-	-	-	$41,401	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1838 - Avondale Park Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$25,988
1839 - Barlow Court Park Trail	-	-	-	-	-	-	-	$19,261	-	-	-	-	-	-	-	-	-	-	-	
1840 - Baxter (Aspen Springs) Trail	-	-	-	-	-	-	-	-	-	-	-	$43,084	-	-	-	-	-	-	-	
1841 - Bons (Knox Neighbourhood) Trail	-	-	-	-	-	-	-	-	-	-	-	$43,509	-	-	-	-	-	-	-	
1842 - Bowmanville Memorial Park Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$5,456	
1843 - Bowmanville Valley Trial Section #1	-	-	-	-	-	$78,112	-	-	-	-	-	-	-	-	-	-	-	-	-	
1844 - Bowmanville Valley Trail Section #2	-	-	-	-	-	-	$61,084	-	-	-	-	-	-	-	-	-	-	-	-	
1845 - Brookhouse Park Trail	-	-	-	-	-	-	-	$19,931	-	-	-	-	-	-	-	-	-	-	-	
1846 - Carveth Trail	-	-	-	-	-	$19,705	-	-	-	-	-	-	-	-	-	-	-	-	-	
1847 - Carveth Trail	-	-	-	-	-	-	-	-	-	$27,913	-	-	-	-	-	-	-	-	-	
1848 - Cecil Found (George Reynolds Park) Trail	-	-	-	-	-	-	-	-	$4,082	-	-	-	-	-	-	-	-	-	-	
1849 - Cherry Blossom Parkette Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$12,157	
1850 - Clarington Corners (Green Park) Trail	-	-	-	$34,392	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1851 - Clarington Fields Trail	-	-	-	-	-	-	-	-	-	-	$121,949	-	-	-	-	-	-	-	-	
1853 - Edward Park Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,638	
1854 - Elephant Hill Park Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$39,121	
1855 - Elliot Park Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$26,607	
1856 - Firwood Park Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,481	
1857 - Foster Creek Parkette Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$49,761	
1858 - Foxhunt Parkette Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$16,094	
1859 - Gate House Parkette Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,051	
1860 - Glanville Parkette Trail	-	-	-	-	-	-	-	-	-	$13,259	-	-	-	-	-	-	-	-	-	
1861 - Glenabbey Parkette Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$29,765	
1862 - Guildwood Park Trail	-	-	-	-	-	$63,298	-	-	-	-	-	-	-	-	-	-	-	-	-	
1863 - Highland Gardens Park Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$17,867	
1864 - Landerville Parkette Trail	-	-	-	-	-	-	-	$21,264	-	-	-	-	-	-	-	-	-	-	-	
1865 - Lions Memorial Trail Newcastle Trail	-	-	-	-	-	-	-	$24,478	-	-	-	-	-	-	-	-	-	-	-	
1866 - Longworth Park Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$46,391	
1867 - Lord Elgin Park Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$13,165	
1868 - Mearns Park Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$24,414	
1869 - Moyse Parkette Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$21,206	
1870 - Pearce Farm Park Trail	-	-	-	-	-	-	-	$15,362	-	-	-	-	-	-	-	-	-	-	-	
1871 - Pearce Farm Park Trail	-	-	-	-	-	-	-	$27,058	-	-	-	-	-	-	-	-	-	-	-	
1872 - Penfound Park Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$33,468	
1873 - Peters Pike Parkette Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$5,225	
1874 - Pickard Gate Parkette (Robinson Ridge) Trail	-	-	$10,203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1875 - Rhonda Park Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$20,130	
1876 - Rickard Community Centre Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$21,424	
1877 - Rickard Community Centre Trail	-	$3,792	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1878 - Ridge Pine Park Waterfront Trail	-	-	-	-	-	-	-	-	-	$142,184	-	-	-	-	-	-	-	-	-	
1879 - Rosswell Park Trail	-	-	-	-	$56,487	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1880 - Rosswell Park Trail	-	-	-	-	$17,871	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1881 - Rotary Park Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,179	
1882 - Samuel Wilmot Nature Area Trail	-	-	$21,957	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1883 - Soper Creek Trail Bowmanville Trail	-	-	-	-	-	-	-	$75,498	-	-	-	-	-	-	-	-	-	-	-	
1884 - South Courtice Community Park Trail	-	-	-	-	-	-	$11,290	-	-	-	-	-	-	-	-	-	-	-	-	
1885 - Stuart Park Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$37,112	
1886 - Walbridge Park Trail	-	-	-	-	$35,910	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1887 - Water front Trail Port of Newcastle Trail	-	-	-	-	-	-	-	-	-	$78,505	-	-	-	-	-	-	-	-	-	
1888 - Water front Trail Port of Newcastle Drive	-	-	-	$36,014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1889 - Waterfront Trail Bowm. Boat Launch	-	-	-	-	-	-	-	-	$44,910	-	-	-	-	-	-	-	-	-	-	
1890 - West Side Park Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$112,326
1891 - Westview Parkette Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$16,296	
1892 - Whitecliff Parkette Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,332	
1893 - Bondhead Parkette Boat Launch Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$14,851	
1895 - Rotary Park Trail	-	-	-	-	-	-	-	-	$90,452	-	-	-	-	-	-	-	-	-	-	
1904 - Squire Fletcher Park Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	$129,388	-	-	-	-	-	
1905 - Courtice CIP Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$77,201	-	-	-	-	

Asset Management Replacement Requirements
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
1906 - Nelson Street Parkette Trail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$62,675	-	-	-	-	
1907 - Bowmanville Valley Trail Section #3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$122,960	-	-	-	-	
1908 - Clarington Trails	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$13,492	-	-	-	-	
1909 - Hancock Park Walkways	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$62,277	-	-	-	
5611 - Tooley's Mill Park Asphalt Trails	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$86,142	-	-	
5613 - South Courtice Artificial Turf Field Walkways	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$78,146	-	-	
5614 - Courtice West Park Asphalt Trails	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$50,574	-	-	
52975 - Longworth Park Phase 2 Walkways	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$110,068	-	
52976 - Scugog Street Park Walkways	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$38,058	-	
52977 - Westvale Parkette (Bathgate Commons) Walkways	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$21,977	-	
52978 - Port Darlington Waterfront Park Trails	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$490,339	-	
Parks-Miscellaneous																				
1805 - Bowmanville Boat Launch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$28,865	
1806 - Orono Park Ped. Bridge	$32,917	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1807 - Foxhunt Parkette Ped. Bridge	-	-	$33,805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1808 - Bondhead Boat Launch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$23,787	
1809 - Bowmanville Valley / Rotary Park Ped. Bridge	-	-	-	-	-	$165,214	-	-	-	-	-	-	-	-	-	-	-	-	-	
1810 - Glenabbey Park Ped. Bridge	-	-	-	-	-	-	-	$94,094	-	-	-	-	-	-	-	-	-	-	-	
1812 - Syndey Rutherford Trail Ped. Bridge	-	-	-	-	-	-	-	-	$29,416	-	-	-	-	-	-	-	-	-	-	
1813 - West Side Park Ped. Bridge	-	-	-	-	-	-	-	-	-	$35,986	-	-	-	-	-	-	-	-	-	
1814 - Lions Memorial Ped. Bridge	-	-	-	-	-	-	-	-	-	-	-	$37,919	-	-	-	-	-	-	-	
1815 - RRC Skateboard Park	-	-	-	-	-	-	$389,802	-	-	-	-	-	-	-	-	-	-	-	-	
1816 - Old Kingston Rd Ped. Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	$41,721	-	-	-	-	-	
1817 - Soper Creek Bridge #1 Ped. Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$23,206	-	
1818 - Soper Creek Bridge #2 Ped. Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$23,206	-	
1819 - Waterfront Trail Bowm Boat Launch Ped. Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$263,609	
1820 - Ridge Oine Oark - Pedestrian Bridge																				$124,950
1821 - Samuel Wilmot - Pedestrian Bridge																				$45,496
1822 - CCC Skateboard Park	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$820,596	-	-	-	
1823 - Bowm. Boat Launch Lot & Access Road Improvement	-	-	-	-	-	$59,822	-	-	-	-	-	-	$68,717	-	-	-	-	-	-	$78,934
1825 - Orono Skateboard Park	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$85,955	-	-	
1827 - Samuel Wilmot Nature Area Underground Waste Container	-	-	-	-	-	-	-	-	-	$8,117	-	-	-	-	-	-	-	-	-	
1828 - Samuel Wilmot Nature Area Underground Waste Container	-	-	-	-	-	-	-	-	-	$8,117	-	-	-	-	-	-	-	-	-	
1829 - Bowm. Waterfront Underground Waste Container	-	-	-	-	-	-	-	-	-	$8,117	-	-	-	-	-	-	-	-	-	
1830 - Bowm. Valley Underground Waste Container	-	-	-	-	-	-	-	-	-	$8,117	-	-	-	-	-	-	-	-	-	
1831 - Bowm. Valley Underground Waste Container	-	-	-	-	-	-	-	-	-	$8,117	-	-	-	-	-	-	-	-	-	
1832 - Clar. Fields Underground Waste Container	-	-	-	-	-	-	-	-	-	$8,117	-	-	-	-	-	-	-	-	-	
1834 - Dog Park-Molok Waste Container	-	-	-	-	-	-	-	-	-	$9,848	-	-	-	-	-	-	-	-	-	
1835 - Hampton Skatepark																				
5602 - Tooley's Mill Park Underground Waste Container	-	-	-	-	-	-	-	-	-	-	-	$8,388	-	-	-	-	-	-	-	
5603 - Orono Park Underground Waste Container	-	-	-	-	-	-	-	-	-	-	-	$11,007	-	-	-	-	-	-	-	
5604 - South Courtice Artificial Turf Field Bleachers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$16,526	-	-	
52958 - Port Darlington Waterfront Park Molok Waste Containers	-	-	-	-	-	-	-	-	-	-	-	-	$46,137	-	-	-	-	-	-	
TOTAL PARKS	**$438,581**	**$185,431**	**$507,591**	**$257,421**	**$638,367**	**$575,019**	**$959,472**	**$830,434**	**$881,204**	**$1,029,341**	**$365,580**	**$590,123**	**$1,513,357**	**$834,509**	**$775,621**	**$1,532,603**	**$638,360**	**$2,373,742**	**$1,916,364**	**$637,144**
MISCELLANEOUS ASSETS																				
Bunker Suits																				
1462 - 2008 Pooled Bunker Gear	-	-	-	-	-	$37,281	-	-	-	-	-	-	$42,824	-	-	-	-	-	-	$49,193
1463 - 2009 Pooled Bunker Gear	-	-	-	-	-	$86,520	-	-	-	-	-	-	$99,384	-	-	-	-	-	-	$114,162
1464 - 2010 Pooled Bunker Gear	-	-	-	-	-	-	$19,910	-	-	-	-	-	-	$22,870	-	-	-	-	-	
1465 - 2011 Pooled Bunker Gear	$4,543	-	-	-	-	-	-	$5,219	-	-	-	-	-	-	$5,995	-	-	-	-	
1466 - 2012 Pooled Bunker Gear	-	$66,519	-	-	-	-	-	-	$76,409	-	-	-	-	-	-	$87,770	-	-	-	
1467 - 2013 Pooled Bunker Gear	-	-	$62,030	-	-	-	-	-	-	$71,253	-	-	-	-	-	-	$81,847	-	-	
5624 - 2014 Pooled Bunker Gear	-	-	-	$58,335	-	-	-	-	-	-	$67,009	-	-	-	-	-	-	$76,972	-	
52991 - 2015 Pooled Bunker Gear	-	-	-	-	$68,054	-	-	-	-	-	-	$78,173	-	-	-	-	-	-	$89,796	
Communications																				
1488 - Bell Communications System	-	-	-	-	-	$48,666	-	-	-	-	-	-	$55,902	-	-	-	-	-	-	$64,214
1489 - Phone Equip/Software - Voice Over Internet Protocol	-	-	-	-	-	$37,735	-	-	-	-	-	-	$43,346	-	-	-	-	-	-	$49,791
1490 - Tower 150ft Communication Tower Courtice	-	-	-	-	-	-	-	-	-	-	-	-	$97,796	-	-	-	-	-	-	
1491 - Tower 150ft CSA Tower Depot 42 Newcastle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$107,303	-	-	-	
1492 - Tower 180ft Communication Tower Hampton	-	-	-	-	-	-	-	-	-	-	-	-	-	$120,360	-	-	-	-	-	
1493 - Wireless Radios - Animal Services Radios x 2	-	-	-	-	-	$24,157	-	-	-	-	-	-	$27,749	-	-	-	-	-	-	$31,874
1494 - Wireless Radios - Courtice Community Centre Radios x 2	-	-	-	-	-	$31,922	-	-	-	-	-	-	$36,668	-	-	-	-	-	-	$42,120
1495 - Wireless Radios - Courtice Fitness Centre Radios x 2	-	-	-	-	-	$24,157	-	-	-	-	-	-	$27,749	-	-	-	-	-	-	$31,874
1496 - Wireless Radios - Depot 42 Radios x 2	-	-	-	-	-	$41,682	-	-	-	-	-	-	$47,880	-	-	-	-	-	-	$54,999
1497 - Wireless Radios - Hampton Radios x 2	-	-	-	-	-	$54,447	-	-	-	-	-	-	$62,542	-	-	-	-	-	-	$71,841
1498 - Wireless Radios - Hampton to CCC Radios x 2	-	-	-	-	-	$24,157	-	-	-	-	-	-	$27,749	-	-	-	-	-	-	$31,874
1499 - Wireless Radios - Newcastle Rec Centre Radios x 2	-	-	-	-	-	$41,682	-	-	-	-	-	-	$47,880	-	-	-	-	-	-	$54,999
1500 - Wireless Radios - Rickard Rec Complex Radios x 2	-	-	-	-	-	$24,157	-	-	-	-	-	-	$27,749	-	-	-	-	-	-	$31,874
1501 - Wireless Radios - South Courtice Radios x 2	-	-	-	-	-	$24,157	-	-	-	-	-	-	$27,749	-	-	-	-	-	-	$31,874
5632 - NextGen Operations Communication System Equipment	-	-	-	-	-	-	$231,432	-	-	-	-	-	-	-	-	-	$282,114	-	-	
53000 - NextGen Operations Communication Radios (2015)	-	-	-	-	-	-	-	$86,728	-	-	-	-	-	-	-	-	-	$105,721	-	

Asset Management Replacement Requirements
2018 to 2037
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Communications-Fire																				
1503 - Dispatch Recording Device	-	-	-	$36,095	-	-	-	-	$39,851	-	-	-	-	$43,999	-	-	-	-	$48,579	
1504 - Wireless Radios - Courtice Fire Hall Station 4 Radios x 2	-	-	-	-	-	$41,682	-	-	-	-	-	-	$47,880	-	-	-	-	-	-	$54,999
1505 - Wireless Radios - Fire Head Quarters Radios x 2	-	-	-	-	-	$41,682	-	-	-	-	-	-	$47,880	-	-	-	-	-	-	$54,999
5633 - NextGen Fire Communications Equipment	-	-	-	-	-	-	$801,229	-	-	-	-	-	-	-	-	-	$976,693	-	-	
Computer Hardware																				
1414 - 2011 Pooled Computer Hardware - CPU's	-	-	$41,038	-	-	-	$44,421	-	-	-	$48,083	-	-	-	$52,046	-	-	-	$56,337	
1415 - 2012 Pooled Computer Hardware - CPU's	-	-	$38,020	-	-	-	$41,155	-	-	-	$44,547	-	-	-	$48,219	-	-	-	$52,194	
1416 - 2013 Pooled Computer Hardware - CPU's	-	-	-	$82,027	-	-	-	$88,788	-	-	-	$96,107	-	-	-	$104,030	-	-	-	$112,605
1419 - 2011 Pooled Computer Hardware - Monitors	-	-	$5,029	-	-	-	$5,444	-	-	-	$5,892	-	-	-	$6,378	-	-	-	$6,904	
1420 - 2012 Pooled Computer Hardware - Monitors	-	-	$5,335	-	-	-	$5,775	-	-	-	$6,251	-	-	-	$6,766	-	-	-	$7,324	
1421 - 2013 Pooled Computer Hardware - Monitors	-	-	-	$7,930	-	-	-	$8,583	-	-	-	$9,291	-	-	-	$10,057	-	-	-	$10,886
1424 - 2011 Pooled Computer Hardware - Server	-	-	$8,983	-	-	-	$9,724	-	-	-	$10,525	-	-	-	$11,393	-	-	-	$12,332	
1425 - 2012 Pooled Computer Hardware - Server	-	-	$84,392	-	-	-	$91,348	-	-	-	$98,878	-	-	-	$107,029	-	-	-	$115,852	
1426 - 2013 Pooled Computer Hardware - Server	-	-	-	$6,226	-	-	-	$6,739	-	-	-	$7,295	-	-	-	$7,896	-	-	-	$8,547
1429 - 2011 Pooled Computer Hardware - Miscellaneous	-	-	$33,352	-	-	-	$36,101	-	-	-	$39,077	-	-	-	$42,298	-	-	-	$45,785	
1430 - 2012 Pooled Computer Hardware - Miscellaneous	-	-	$23,557	-	-	-	$25,499	-	-	-	$27,601	-	-	-	$29,876	-	-	-	$32,339	
1431 - 2013 Pooled Computer Hardware - Miscellaneous	-	-	-	$22,240	-	-	-	$24,073	-	-	-	$26,057	-	-	-	$28,205	-	-	-	$30,530
5615 - 2014 Pooled Computer Hardware - CPU's	$53,471	-	-	-	$57,879	-	-	-	$62,650	-	-	-	$67,815	-	-	-	$73,405	-	-	
5616 - 2014 Pooled Computer Hardware - Monitors	$7,442	-	-	-	$8,055	-	-	-	$8,719	-	-	-	$9,438	-	-	-	$10,216	-	-	
5617 - 2014 Pooled Computer Hardware - Tablets	$11,213	-	$11,666	-	$12,138	-	$12,628	-	$13,138	-	$13,669	-	$14,221	-	$14,796	-	$15,394	-	$16,016	
5618 - 2014 Pooled Computer Hardware - Server	$69,357	-	-	-	$75,074	-	-	-	$81,263	-	-	-	$87,962	-	-	-	$95,213	-	-	
5619 - 2014 Pooled Computer Hardware - Miscellaneous	$18,550	-	-	-	$20,079	-	-	-	$21,735	-	-	-	$23,526	-	-	-	$25,466	-	-	
52982 - 2015 Pooled Computer Hardware - CPU's	-	$17,285	-	-	-	$18,710	-	-	-	$20,252	-	-	-	$21,922	-	-	-	$23,729	-	
52983 - 2015 Pooled Computer Hardware - Monitors	-	$10,678	-	-	-	$11,558	-	-	-	$12,511	-	-	-	$13,542	-	-	-	$14,658	-	
52984 - 2015 Pooled Computer Hardware - Tablets	-	$14,649	-	$15,241	-	$15,856	-	$16,497	-	$17,164	-	$17,857	-	$18,578	-	$19,329	-	$20,110	-	$20,922
52985 - 2015 Pooled Computer Hardware - Server	-	$8,272	-	-	-	$8,954	-	-	-	$9,692	-	-	-	$10,491	-	-	-	$11,356	-	
52986 - 2015 Pooled Computer Hardware - Miscellaneous	-	$21,620	-	-	-	$23,402	-	-	-	$25,331	-	-	-	$27,419	-	-	-	$29,680	-	
52987 - 2015 Computer Hardware - Broadband Tower (Orono)	-	$1,588	-	-	-	$1,718	-	-	-	$1,860	-	-	-	$2,013	-	-	-	$2,179	-	
Equipment																				
1469 - RRC - Walk Behind Floor Scrubber	-	-	-	-	-	$11,446	-	-	-	-	-	-	$13,147	-	-	-	-	-	-	$15,102
1471 - NRC - Ride-on Floor Scrubber	-	-	-	-	-	$13,950	-	-	-	-	-	-	$16,024	-	-	-	-	-	-	$18,406
1472 - NRC - Telescopic Lift	$10,868	-	-	-	-	-	-	-	-	-	$13,248	-	-	-	-	-	-	-	-	
1473 - SCA - Walk Behind Floor Scrubber	$8,449	-	-	-	-	-	-	$9,705	-	-	-	-	-	-	$11,148	-	-	-	-	
1474 - BIS - Walk Behind Floor Scrubber	-	$8,679	-	-	-	-	-	-	$9,969	-	-	-	-	-	-	$11,451	-	-	-	
1475 - RRC - Ride-on Floor Scrubber	-	$19,629	-	-	-	-	-	-	$22,548	-	-	-	-	-	-	$25,900	-	-	-	
1476 - High Pressure Air Compressor	-	-	-	-	-	-	-	-	-	-	-	-	-	$101,937	-	-	-	-	-	
1477 - Dry Hydrant	-	-	-	-	-	-	-	-	$26,651	-	-	-	-	-	-	-	-	-	-	
1478 - Extinguisher Training Unit	-	-	$8,177	-	-	-	-	-	-	$9,392	-	-	-	-	-	-	$10,789	-	-	
1479 - Containerized Training Facility	-	-	-	-	-	-	$120,384	-	-	-	-	-	-	-	-	-	-	-	-	
1480 - Thermal Imaging Camera	-	-	-	-	-	$8,759	-	-	-	-	-	-	$10,061	-	-	-	-	-	-	$11,557
1481 - Operations 75,000 lb Vehicle Lift/Hoist	-	-	-	-	-	$115,257	-	-	-	-	-	-	-	-	-	-	-	-	-	
1482 - Modis Diagnostic Scanner	-	-	-	-	-	$18,864	-	-	-	-	-	-	$21,668	-	-	-	-	-	-	$24,890
1483 - Curtis Walk In Freezer - Animal Services	-	-	-	-	-	-	-	-	-	$20,509	-	-	-	-	-	-	-	-	-	$25,001
1484 - MTR2000 Two-way Radio Repeater	-	-	-	-	-	$19,504	-	-	-	-	-	-	$22,403	-	-	-	-	-	-	$25,735
1485 - Winslow Gerolamy Diagnostic Laptop & Software	-	-	$11,145	-	-	-	$12,063	-	-	-	$13,058	-	-	-	$14,134	-	-	-	$15,299	
1486 - Clerks FPI - Folder Inserter Fpi 2025	-	-	-	-	$17,328	-	-	-	-	-	$19,514	-	-	-	-	-	$21,976	-	-	
1487 - Operations 75,000 lb Vehicle Lift/Hoist	-	-	-	-	-	-	-	-	-	-	$90,563	-	-	-	-	-	-	-	-	
5625 - NDRC - Traveler Portable Pool Lift	-	-	-	-	-	-	$10,912	-	-	-	-	-	-	-	-	-	$13,301	-	-	
5626 - CCC - PAL Portable Spa/Pool Lift	-	-	-	-	-	-	$9,951	-	-	-	-	-	-	-	-	-	$12,130	-	-	
5627 - Fire Station #2 Generator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$118,849	-	-	
5628 - High Pressure Air Compressor Fill Station	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$100,323	-	-	
5629 - Unimac Bunker Gear Dryer	-	-	-	-	-	-	$23,460	-	-	-	-	-	-	-	-	-	$28,598	-	-	
5630 - SMART Board 885 w/Projector	-	-	-	-	-	-	$13,700	-	-	-	-	-	-	-	-	-	$16,700	-	-	
5631 - Electric Chain Hoist and Hook	-	-	-	$8,105	-	-	-	-	-	-	$9,310	-	-	-	-	-	-	$10,694	-	
52992 - SCA - Ride-on Floor Scrubber	-	-	-	-	$17,987	-	-	-	-	-	-	$20,661	-	-	-	-	-	-	$23,734	
52993 - ASC - SkyJack Upright Scissor Lift	-	-	-	-	-	-	-	$18,469	-	-	-	-	-	-	-	-	-	$22,514	-	
52994 - ASC - Pal 2 Aquatic Pool Lift	-	-	-	-	-	-	-	$8,488	-	-	-	-	-	-	-	-	-	$10,346	-	
52996 - Rickard Recreation Complex - Special Disaster Generator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$287,647	-	
52997 - Operations - Linelazer 3400	-	-	-	-	$5,008	-	-	-	-	-	-	$5,753	-	-	-	-	-	-	$6,608	
52998 - Operations - Honda 12" Sod Cutter	-	-	-	-	$5,140	-	-	-	-	-	-	$5,904	-	-	-	-	-	-	$6,782	
52999 - Operations - Ballpark 4 Groomer	-	-	-	-	$3,877	-	-	-	-	-	-	$4,454	-	-	-	-	-	-	$5,116	
53001 - ASC - Scoreboard and Start Blocks	-	-	-	-	-	-	-	$2,185	-	-	-	-	-	-	-	-	-	$2,663	-	
53002 - ASC - Telk Communication PA System	-	-	-	-	-	-	-	-	-	-	-	-	$20,203	-	-	-	-	-	-	
53003 - ASC - Walk Behind Floor Scrubber	-	-	-	-	$7,691	-	-	-	-	-	-	$8,834	-	-	-	-	-	-	$10,148	
53004 - DSC - Walk Behind Floor Scrubber	-	-	-	-	$7,202	-	-	-	-	-	-	$8,273	-	-	-	-	-	-	$9,503	
53005 - NDRC - Accessible Transfer Lift	-	-	-	-	-	-	-	$7,819	-	-	-	-	-	-	-	-	-	$9,532	-	
53006 - CCC - Walk Behind Floor Scrubber	-	-	-	-	$11,642	-	-	-	-	-	-	$13,373	-	-	-	-	-	-	$15,362	

Asset Management Replacement Requirements
2018 to 2037
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Parking Lots																				
164 - Newcastle Community Hall Parking Lot	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$58,041	-	-	
205 - Clarington Beech Ctr Parking Lot																				$366,082
233 - Orono Town Hall Parking Lot	-	-	$11,375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
374 - Rickard Recreational Complex Parking Lot	-	-	-	-	-	-	-	-	-	-	-	-	-	$919,647	-	-	-	-	-	
390 - Darlington Sports Centre Parking Lot	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$220,573	-	-	
1507 - 132 Church St (West Side) Parking Lot																				
Parking Meters																				
1522 - Central Meter 132 Church St.	-	$12,239	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$16,472	-	-	
1523 - Central Meter 15 Silver Street South	-	$12,239	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$16,472	-	-	
1524 - Central Meter 168 Church St - Silver St	-	-	-	-	-	-	$14,901	-	-	-	-	-	-	-	-	-	-	-	-	
1525 - Central Meter 20 King Street	-	$12,239	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$16,472	-	-	
1527 - Central Meter Bowmanville Boat Launch	-	-	-	-	-	-	-	-	-	-	-	-	-	$14,519	-	-	-	-	-	
52981 - Central Meter 30 Division Street	-	-	-	-	-	-	-	$7,952	-	-	-	-	-	-	-	-	-	$9,694	-	
Miscellaneous Assets																				
1542 - Courtice Entrance Sign Feature	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$150,663	-	-	-	-	
1544 - LED Sign - Highway #2 and Reg. Rd 57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$117,243	-	-	
1545 - EMS - Security Cameras	-	-	$13,450	-	-	-	$14,559	-	-	-	$15,759	-	-	-	$17,058	-	-	-	$18,464	
TOTAL MISC	**$183,893**	**$205,636**	**$357,549**	**$236,199**	**$317,154**	**$852,062**	**$1,544,596**	**$291,245**	**$362,933**	**$187,964**	**$522,984**	**$302,032**	**$1,075,195**	**$1,317,297**	**$517,799**	**$401,941**	**$2,328,287**	**$637,495**	**$594,474**	**$1,440,950**
ROADS																				
Surface (Asset ID - Name - Road Segment ID)																				
3644 - Scugog Boundary Rd - 59247	-	-	-	-	-	-	63,270	-	-	-	-	-	-	-	-	75,613	-	-	-	-
3645 - Jones Av - 91001	-	-	-	-	-	-	53,164	-	-	-	-	-	-	-	-	63,536	-	-	-	-
3646 - Rose Cr - 91003	-	-	-	-	-	-	29,772	-	-	-	-	-	-	-	-	35,580	-	-	-	-
3647 - Hill St - 91005	-	-	-	-	-	-	170,125	-	-	-	-	-	-	-	-	203,315	-	-	-	-
3648 - Church Ln - 91007	-	-	-	-	-	-	42,609	-	-	-	-	-	-	-	-	50,921	-	-	-	-
3649 - Newtonville Mill St - 91009	-	-	-	-	-	-	26,911	-	-	-	-	-	-	-	-	32,161	-	-	-	-
3650 - Paynes Cr - 91011	-	-	-	-	-	-	138,033	-	-	-	-	-	-	-	-	164,962	-	-	-	-
3651 - Ovens Rd N - 91013	-	-	-	-	35,677	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3653 - Gord Vinson Ave - 92001	-	-	85,014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3654 - Gord Vinson Ave - 92002	-	-	51,616	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3655 - Turnberry Cr - 92003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3656 - Gord Vinson Ave - 92004	-	-	-	-	-	25,777	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3657 - Summerlea Ct - 92005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3658 - Gord Vinson Ave - 92006	-	-	-	-	-	25,777	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3659 - Bruntsfield St - 92007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3660 - Darlington Park Rd - 92008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3661 - Glenabbey Dr - 92009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3662 - Glenabbey Dr - 92010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3663 - Pinedale Cr - 92011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3664 - South Service Rd - 92012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3665 - Edinborough Ln - 92013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3666 - Kingswood Dr - 92014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3667 - Kingswood St - 92015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3668 - South Service Rd - 92016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3669 - Fox Hunt Tr - 92017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3670 - Kingsview Ct - 92019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3671 - Baseline Rd - 92020	-	-	-	-	-	178,023	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3672 - Empire Cr - 92021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3673 - Baseline Rd - 92022	-	-	-	-	-	-	-	-	373,232	-	-	-	-	-	-	-	-	-	-	-
3674 - Kingsway Gate - 92023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3675 - Barron Ct - 92024	-	-	-	-	-	45,109	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3676 - Darlington Blvd - 92025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3677 - Baseline Rd - 92026	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3678 - Robert Adams Dr - 92027	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3679 - Robert Adams Dr - 92028	-	122,570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3680 - Renwick Rd - 92029	-	116,091	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3681 - Osgoode Gate - 92030	-	-	-	-	44,224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3682 - Hampstead Gate - 92031	-	-	-	27,873	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3683 - Baseline Rd - 92032	-	-	325,925	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3684 - Mulholland Ct - 92033	-	-	39,471	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3685 - Baseline Rd - 92034	-	-	53,483	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3686 - Hatheway Dr - 92035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3687 - Baseline Rd - 92036	-	-	274,137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3688 - Whitecliffe Dr - 92037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3689 - Baseline Rd - 92038	-	-	325,925	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3690 - Halstead Rd - 92039	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3691 - Oke Rd - 92040	-	-	-	-	-	-	-	34,351	-	-	-	-	-	-	-	-	-	-	-	-
3692 - Claret Rd - 92041	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3694 - Phair Av - 92043	-	44,125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3695 - Nash Rd - 92044	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
3696 - Sandringham Dr - 92045	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3697 - Sandringham Dr - 92046	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3698 - Lyndale Cr - 92047	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3699 - Nash Rd - 92048	-	-	-	-	-	-	-	181,415	-	-	-	-	-	-	-	-	-	-	-	-
3700 - Beechnut Cr - 92049	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3701 - Glenabbey Dr - 92050	140,766	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3702 - Nash Rd - 92051	-	-	-	-	-	145,941	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3703 - Oke Rd - 92052	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3704 - Parklawn Dr - 92053	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3705 - Found Ct - 92054	-	17,860	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3706 - Windham Cr - 92055	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3707 - Nash Rd - 92056	-	-	-	-	-	-	-	201,134	-	-	-	-	-	-	-	-	-	-	-	-
3709 - Stirling Av - 92057	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3710 - Nash Rd - 92058	122,251	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3711 - Stephen Av - 92059	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3712 - Glenabbey Dr - 92060	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3713 - Strathallan Dr - 92061	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3714 - Strathallan Dr - 92062	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3715 - Stuart Rd - 92063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3716 - Rex Tooley lane - 92064	-	-	-	-	-	-	75,590	-	-	-	-	-	-	-	-	-	-	-	-	-
3717 - Stuart Rd - 92065	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3718 - Kennedy Dr - 92066	-	59,534	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3719 - Bushford St - 92067	93,386	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3720 - McMann Cr - 92068	154,671	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3721 - Hillhurst Cr - 92069	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3722 - Faircomb Cr - 92070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3723 - Yorkville Dr - 92071	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3724 - Poolton Cr - 92072	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3725 - Granville Dr - 92073	40,857	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3726 - Granville Dr - 92074	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3727 - Granville Dr - 92075	-	29,767	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3728 - Buyson Cr - 92076	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3729 - Yorkville Ct - 92077	5,837	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3730 - John Walter Cr - 92078	-	139,904	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3731 - Inglis Av - 92079	58,366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3732 - Inglis Ct - 92081	5,837	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3733 - Thornbury Ct - 92083	17,510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3734 - Thornbury St - 92084	125,488	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3735 - Sagewood Av - 92085	-	-	-	-	63,178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3736 - Sagewood Av - 92086	-	-	-	-	34,748	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3737 - Saddlebrook Ct - 92087	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3738 - Worthington Dr - 92088	-	133,951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3739 - Auburn Ln - 92089	113,815	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3740 - Auburn Ln - 92090	-	-	97,159	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3741 - Auburn Ct - 92091	-	-	24,290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3742 - Hemingway Dr - 92092	-	-	-	-	110,561	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3743 - Hemingway Dr - 92093	-	-	109,304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3744 - Pebble Beach Dr - 92094	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3745 - Newport Av - 92095	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3746 - Lawson Rd - 92100	-	110,137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3747 - Varcoe Rd - 92101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3748 - Varcoe Rd - 92103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3749 - Varcoe Rd - 92104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3750 - Old Varcoe Rd - 92105	-	-	-	-	-	-	100,528	-	-	-	-	-	-	-	-	120,141	-	-	-	-
3751 - Wabbokish Ct - 92106	-	92,277	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3752 - Cherry Blossom Cr - 92107	-	-	117,162	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3753 - Sheco Ct - 92108	35,020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3754 - Cherry Blossom Cr - 92109	-	-	-	-	65,408	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3756 - Dale Park Dr - 92111	-	-	-	-	-	-	-	25,240	-	-	-	-	-	-	-	-	-	-	-	-
3757 - Bridle Ct - 92112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3759 - Lightheart Dr - 92114	-	-	-	-	-	12,888	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3761 - Dale Park Dr - 92116	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3764 - Old Kingston Rd - 92121	-	40,273	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3765 - Old Kingston Rd - 92122	-	-	-	-	-	22,858	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3766 - Windsor Valley Pl - 92123	-	-	-	-	-	90,218	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3767 - Black Creek Tr - 92125	-	-	-	-	-	132,105	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3768 - Fourth Av - 92128	-	-	-	-	-	35,443	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3769 - Carriage Ln - 92129	-	-	-	-	-	-	-	43,579	-	-	-	-	-	-	-	-	-	-	-	-
3770 - Barrington Pl - 92130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3771 - Windsor Valley Gate - 92131	-	-	-	-	-	32,221	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3772 - Sleeman Sq - 92132	-	-	-	145,556	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3773 - Centerfield Dr - 92133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
3774 - Fourth Ave - 92134	-	113,114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3775 - Centerfield Dr - 92135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3776 - Cloverfield St - 92136	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3777 - Cloverfield St - 92137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3778 - Birchfield Dr - 92139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3779 - Birchfield Dr - 92141	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3780 - Oakfield Gate - 92143	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3781 - Homefield Sq - 92145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3782 - Hartfield Dr - 92147	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3783 - Birchfield Ct - 92149	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3784 - Circlefield Ct - 92151	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3785 - Poppyfield Dr - 92153	-	-	-	12,388	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3786 - Springfield Ln - 92155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3787 - George Reynolds Dr - 92157	100,940	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3788 - George Reynolds Dr - 92158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3789 - George Reynolds Dr - 92160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3790 - McLellan Dr - 92161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3791 - McLellan Crt - 92162	-	-	-	-	-	37,054	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3792 - Devondale St - 92163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3793 - Devondale St - 92165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3794 - Devondale St - 92166	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3795 - Alderbrook Dr - 92167	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3796 - Alderbrook Dr - 92169	17,510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3797 - Oban Ct - 92171	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3798 - Firwood Av - 92173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3799 - Firwood Av - 92175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3800 - Firwood Av - 92176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3801 - Gold Pine Av - 92177	48,066	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3802 - Gold Pine Av - 92179	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3803 - Abbeywood Cr - 92181	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3804 - Mossgrove Ct - 92183	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3805 - Longwood Ct - 92185	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3806 - Broadlands Cr - 92187	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3807 - Westmore St - 92189	-	-	145,739	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3808 - Jane Av - 92191	-	-	78,942	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3809 - Jane Av - 92192	-	-	-	-	61,599	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3810 - Glenview Rd - 92193	-	-	-	-	-	-	25,944	-	-	-	-	-	-	-	-	31,006	-	-	-	-
3811 - Skinner Crt - 92194	-	-	-	-	66,337	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3812 - Lynwood Av - 92195	-	-	-	-	-	-	58,964	-	-	-	-	-	-	-	-	70,467	-	-	-	-
3813 - Mull Cr - 92197	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3814 - Leith Ct - 92199	-	-	12,145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3815 - Jura Ct - 92201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3816 - Islay Ct - 92203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3817 - Dunkin Av - 92205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3818 - Kintyre St - 92207	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3819 - Kintyre St - 92208	-	-	-	61,939	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3820 - Arran Cr - 92209	55,448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3821 - Audrey Ct - 92211	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3822 - Cecil Found Cr - 92213	-	139,904	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3823 - Bellman Ct - 92214	-	-	-	27,873	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3824 - George Reynolds Dr - 92215	81,713	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3825 - George Reynolds Dr - 92216	-	-	-	-	-	-	15,621	-	-	-	-	-	-	-	-	-	-	-	-	-
3826 - Pidduck St - 92217	70,040	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3827 - Meredith Ct - 92219	-	44,650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3828 - Moyse Dr - 92221	-	143,581	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3829 - Jolliffe St - 92223	-	26,790	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3830 - Living Ct - 92225	-	83,347	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3831 - Fewster St - 92227	-	-	-	46,454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3832 - Simnick Cr - 92229	-	50,604	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3833 - Sandringham Dr - 92231	-	-	-	72,869	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3834 - Sandringham Dr - 92235	-	91,052	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3835 - Granary Ln - 92237	-	-	-	30,969	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3836 - Brownstone Cr - 92239	-	196,461	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3837 - Weaver St - 92241	-	83,347	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3838 - Hearthstone Cr - 92243	-	98,231	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3839 - Daisyfield Dr - 92245	-	143,581	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3840 - Stagemaster Cr - 92251	-	229,205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3841 - Fieldcrest Av - 92252	-	83,347	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3842 - Fieldcrest Av - 92253	-	-	97,159	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3843 - West Townline Rd - 92262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3844 - Whittaker Rd - 92263	-	-	33,398	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Asset Management Replacement Requirements
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
3845 - West Townline Rd - 92264	-	-	-	-	-	72,970	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3846 - Moulton Ct - 92265	-	41,674	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3847 - West Townline Rd - 92266	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3848 - Townline Rd S - 92267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3849 - West Townline Rd - 92268	-	-	-	-	-	-	21,227	-	-	-	-	-	-	-	-	25,368	-	-	-	-
3850 - Sandringham Dr - 92269	-	52,530	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3851 - West Townline Rd - 92270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3852 - Short Cr - 92271	-	95,254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3853 - Caleche Av - 92279	-	-	81,978	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3854 - Avondale Dr - 92281	102,141	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3855 - Sheenan Ct - 92283	-	-	-	-	31,589	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3856 - Sagewood Av - 92291	-	-	88,050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3857 - Mallory St - 92293	-	98,231	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3858 - Stonefield St - 92295	-	-	-	-	60,019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3859 - Prestonvale Rd - 92296	-	-	-	-	-	476,631	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3860 - Wilkins Cr - 92297	-	-	236,825	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3861 - Prestonvale Rd - 92298	-	-	-	109,304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3862 - Prestonvale Rd - 92299	-	-	-	107,992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3863 - Prestonvale Rd - 92300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3864 - Robert Adams Dr - 92301	48,066	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3865 - Prestonvale Rd - 92302	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3866 - Glen Eagles Dr - 92303	-	-	72,869	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3867 - Prestonvale Rd - 92304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3868 - Eastfield Cr - 92305	-	-	-	-	66,337	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3869 - Tooley Rd - 92306	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3870 - Huntington Cr - 92307	-	-	-	-	167,421	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3871 - Cornish Dr - 92309	-	-	-	-	72,654	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3872 - Kilgannon Avenue Av - 92311	-	-	-	-	110,561	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3873 - Trulls Rd - 92312	-	-	-	-	-	-	195,116	-	-	-	-	-	-	-	-	233,182	-	-	-	-
3874 - Pickard Gate - 92313	-	-	-	-	60,019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3875 - Trulls Rd - 92314	-	-	180,030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3876 - Fenning Dr - 92315	-	-	50,008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3877 - Trulls Rd - 92316	78,966	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3878 - Adair St - 92317	-	-	-	-	-	-	-	16,761	-	-	-	-	-	-	-	-	-	-	-	-
3879 - Trulls Rd - 92318	-	-	-	138,452	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3880 - Wade Sq - 92319	-	-	-	-	183,215	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3881 - Trulls Rd - 92320	123,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3882 - Farmington Dr - 92321	-	-	-	-	97,925	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3883 - Trulls Rd - 92322	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3884 - Rowland Ct - 92323	-	-	-	-	28,430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3886 - Courtice Rd - 92326	-	-	-	-	-	-	-	41,500	-	-	-	-	-	-	-	-	-	-	-	-
3887 - Maplefield Dr - 92327	-	-	-	-	-	-	-	16,761	-	-	-	-	-	-	-	-	-	-	-	-
3888 - Cigas Rd - 92328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3889 - Maplefield Dr - 92329	-	-	-	-	-	-	-	13,409	-	-	-	-	-	-	-	-	-	-	-	-
3890 - Cigas Rd - 92330	-	-	-	-	-	-	-	-	129,209	-	-	-	-	-	-	-	-	-	-	-
3891 - Marnie Dr - 92331	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3892 - Osbourne Rd - 92332	-	-	143,790	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3893 - McNight Rd - 92334	-	-	-	-	-	-	31,473	-	-	-	-	-	-	-	-	-	-	-	-	-
3894 - McNight Rd - 92335	-	-	-	-	-	47,687	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3895 - Progress Dr - 92336	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3896 - Avondale Dr - 92337	-	101,558	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3897 - Courtice Ct - 92338	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3898 - Firwood Av - 92339	-	-	39,471	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3899 - Solina Rd - 92340	-	-	-	-	-	-	78,208	-	-	-	-	-	-	-	-	93,466	-	-	-	-
3900 - Hancock Rd - 92341	-	-	-	-	-	136,464	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3901 - Richfield Sq - 92345	-	196,461	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3902 - Bluegrass Gate - 92347	-	-	-	-	-	-	-	13,409	-	-	-	-	-	-	-	-	-	-	-	-
3903 - Prestonvale Rd - 92349	-	-	-	80,521	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3904 - Sandringham Dr - 92350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3905 - George Reynolds Dr - 92351	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3906 - Cornish Dr - 92353	-	-	91,087	-	-	-	-	-	-	-	106,723	-	-	-	-	-	-	-	-	127,543
3907 - Cornish Dr - 92354	61,285	-	-	-	-	-	-	-	-	73,241	-	-	-	-	-	-	-	-	87,530	-
3908 - Staples Ave - 92355	-	-	66,797	-	-	-	-	-	-	-	78,263	-	-	-	-	-	-	-	-	93,532
3909 - Fenning Dr - 92357	-	73,542	-	-	-	-	-	-	-	-	87,889	-	-	-	-	-	-	-	102,976	-
3910 - Fenning Dr - 92358	-	-	-	-	98,111	-	-	-	-	-	-	-	-	117,252	-	-	-	-	-	-
3911 - Bingham Gate - 92359	-	-	-	87,443	-	-	-	-	-	-	-	102,454	-	-	-	-	-	-	-	-
3912 - Cousins St - 92360	-	-	-	-	83,711	-	-	-	-	-	-	-	-	100,042	-	-	-	-	-	-
3913 - Osbourne Rd - 92361	-	-	-	-	-	-	31,002	-	-	-	-	-	-	-	-	-	-	-	-	-
3914 - Dudley Court - 92362	-	-	-	-	36,960	-	-	-	-	-	-	-	-	44,170	-	-	-	-	-	-
3915 - Osbourne Rd - 92363	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	212,095	-	-	-

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
3916 - Energy Dr - 92365	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	358,204	-	-	-
3917 - Frank Wheeler Ave. - 92539	-	-	-	-	101,084	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3918 - Dewell Cr - 92540	-	-	-	-	-	-	16,433	-	-	-	-	-	-	-	-	-	-	-	-	-
3919 - Montague Ave. - 92541	-	-	-	99,102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3920 - Bathgate Cr - 92542	-	-	-	-	-	-	16,433	-	-	-	-	-	-	-	-	-	-	-	-	-
3921 - Aylesworth Ave. - 92543	-	-	-	-	123,197	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3922 - Bathgate Cr - 92544	-	-	-	-	-	-	16,433	-	-	-	-	-	-	-	-	-	-	-	-	-
3923 - Southfield Ave. - 92545	-	-	-	-	137,504	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3924 - Southfield Ave - 92547	-	-	-	-	96,625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3925 - Rosswell Dr - 92549	-	-	-	-	66,894	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3927 - Rudell Rd - 93003	44,633	-	-	-	-	-	-	-	-	53,341	-	-	-	-	-	-	-	62,497	-	-
3928 - North St - 93007	-	-	-	39,058	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3929 - North St - 93008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3930 - North St - 93009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3931 - Allen's Ln - 93011	-	-	-	-	-	-	6,573	-	-	-	-	-	-	-	-	7,855	-	-	-	-
3932 - George St - 93013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3934 - Monroe St - 93017	-	-	-	-	-	-	-	45,748	-	-	-	-	-	-	-	-	-	-	-	-
3935 - Monroe St - 93019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3936 - Andrew St - 93021	-	-	-	30,059	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3937 - Andrew St - 93022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3938 - George St - 93023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3939 - George St - 93024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3940 - Mill St N - 93025	84,460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3941 - Beaver St N - 93027	-	-	-	107,118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3944 - Orchard Heights Dr - 93031	40,273	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3945 - Orchard Heights Dr - 93032	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3946 - Oatley Ct - 93033	-	-	26,719	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3947 - Graham Ct - 93035	-	-	-	-	20,217	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3948 - King Av W - 93037	107,257	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3949 - King Av W - 93039	58,504	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3950 - King Av E - 93041	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3951 - Rudell Rd - 93042	-	-	-	-	16,724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3952 - Rudell Rd - 93043	33,990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3953 - Rudell Rd - 93044	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3954 - Massey Dr - 93045	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3955 - Foster Creek Dr - 93046	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3956 - Foster Creek Dr - 93047	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3957 - Lillian Cr - 93049	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3958 - Stanford Cr - 93051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3961 - Edward St - 93054	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3962 - Foster Creek Ct - 93055	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3963 - Chester Ln - 93057	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3964 - Hart Ct - 93058	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3965 - Hart Blvd - 93059	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3966 - Vincent Ct - 93061	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3967 - Raymond Ct - 93063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3968 - Sunset Blvd - 93065	-	50,429	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3969 - Lakeview Heights - 93066	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3970 - Sunset Blvd - 93067	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3971 - Robert St W - 93069	-	57,993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3972 - Robert St E - 93070	-	-	-	-	-	37,945	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3973 - James St W - 93071	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3974 - James St W - 93073	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3975 - James St E - 93074	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3976 - Edward St - 93075	-	-	-	43,722	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3977 - Edward St - 93076	-	-	-	-	37,163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3978 - Edward St - 93077	-	-	39,292	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3979 - Edward St - 93078	-	-	-	-	86,330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3980 - Caroline St - 93079	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3981 - Caroline St - 93081	18,883	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3982 - Caroline St - 93082	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3983 - Emily St - 93083	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3984 - Emily St - 93085	-	-	-	-	-	30,325	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3985 - Emily St - 93086	-	-	-	-	30,660	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3986 - Baldwin St - 93087	-	-	-	-	-	98,178	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3988 - Church St - 93089	-	-	-	-	-	-	-	30,367	-	-	-	-	-	-	-	-	-	-	-	-
3990 - Church St - 93091	-	-	-	-	-	-	-	66,256	-	-	-	-	-	-	-	-	-	-	-	-
3992 - Church St - 93093	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3993 - Beaver St S - 93095	-	76,483	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3994 - Beaver St S - 93097	-	76,483	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3995 - Beaver St S - 93098	-	-	-	39,787	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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3996 - Beaver St S - 93100	-	-	-	-	40,582	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3997 - Farrow Av - 93101	-	-	-	-	-	-	78,296	-	-	-	-	-	-	-	-	93,571	-	-	-	-
3998 - Toronto St - 93103	-	-	-	-	-	-	-	26,424	-	-	-	-	-	-	-	-	-	-	-	-
3999 - Toronto St - 93105	-	-	-	-	-	-	305,684	-	-	-	-	-	-	-	-	-	-	-	-	-
4000 - Toronto St - 93107	-	-	-	-	219,169	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4001 - Amos St - 93109	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4002 - Amos St - 93111	40,788	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4003 - Mill St S - 93113	-	-	-	-	-	107,465	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4005 - Mill St S - 93115	-	-	-	-	89,192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4006 - Mill St S - 93116	-	-	-	-	-	-	-	61,681	-	-	-	-	-	-	-	-	-	-	-	-
4007 - Mill St S - 93117	-	178,601	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4008 - Clifton St - 93119	-	6,304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4009 - Clark St - 93121	-	62,510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4010 - Baldwin St - 93122	-	-	60,724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4011 - Catherwood Ln - 93123	-	-	-	40,260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4012 - Clark St - 93125	-	-	-	-	-	12,888	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4013 - Metcalf St - 93127	-	-	-	-	-	-	127,418	-	-	-	-	-	-	-	-	152,276	-	-	-	-
4014 - Queen Victoria St - 93129	-	-	-	-	-	-	49,066	-	-	-	-	-	-	-	-	58,638	-	-	-	-
4015 - Boulton St - 93131	-	-	-	-	-	-	-	-	96,544	-	-	-	-	-	-	-	-	-	-	-
4016 - Lakeshore Rd - 93133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4017 - Lakeshore Rd - 93134	-	-	-	-	-	-	38,278	-	-	-	-	-	-	-	-	45,746	-	-	-	-
4018 - George Manners St - 93135	-	-	-	-	-	-	-	64,876	-	-	-	-	-	-	-	76,012	-	-	-	-
4019 - Lakeshore Rd - 93136	-	-	-	-	-	-	32,478	-	-	-	-	-	-	-	-	38,815	-	-	-	-
4020 - Park Ln - 93137	-	-	-	-	-	-	79,263	-	-	-	-	-	-	-	-	94,726	-	-	-	-
4021 - Riley Rd - 93139	-	-	-	-	-	-	142,708	-	-	-	-	-	-	-	-	170,549	-	-	-	-
4022 - Snowden Ct - 93143	-	14,883	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4023 - Doncaster Cr - 93145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4024 - Coulsen Ct - 93147	20,428	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4025 - Rutherford Dr - 93149	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4026 - Grady Dr - 93151	-	26,790	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4027 - Remi Ct - 93153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4028 - Andrew Ct - 93155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4029 - Sylvia Ct - 93157	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4030 - Willow Ct - 93159	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4031 - Andrew St - 93161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4032 - Challenger Ct - 93163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4033 - McNair St - 93165	-	47,627	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4034 - Resnik Dr - 93167	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4035 - McAuliffe St - 93169	26,265	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4036 - Rosemeadow Cr - 93170	-	65,487	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4037 - Caldwell Cr - 93172	-	-	66,797	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4038 - Glass Ct - 93173	-	-	-	-	-	106,328	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4039 - Lakebreeze Dr - 93174	-	-	-	-	63,178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4040 - Shipley Av - 93175	-	-	-	-	-	45,109	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4041 - Bluenose Ln - 93176	-	-	-	-	-	41,887	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4042 - Bridges Dr - 93177	-	-	-	-	-	103,106	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4043 - Lakebreeze Dr - 93178	-	-	35,720	-	-	-	-	-	-	-	41,852	-	-	-	-	-	-	-	-	50,017
4044 - Beacham Cr - 93179	-	-	-	-	88,449	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4045 - Shipway Ave - 93180	-	-	-	54,652	-	-	-	-	-	-	-	64,034	-	-	-	-	-	-	-	-
4046 - Carveth Cr - 93181	-	-	-	123,878	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4047 - Port of Newcastle Dr - 93183	-	-	-	207,678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4048 - Port of Newcastle Dr - 93184	-	-	-	-	-	53,069	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4049 - Shipway Av - 93185	-	-	100,017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4050 - Stillwell Lane - 93186	67,121	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4051 - Lakebreeze Drive - 93187	154,499	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4052 - Stillwell Lane - 93188	-	-	-	77,424	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4053 - William Jose Ct - 93189	-	-	-	111,490	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4054 - Cutler Dr - 93190	-	-	-	-	-	80,552	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4055 - Bloom Av - 93191	-	-	-	114,587	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4056 - Harmer Dr - 93192	-	-	-	-	-	173,991	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4057 - Schooner Ln - 93193	-	-	-	-	41,066	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4058 - Laking Dr - 93194	-	107,161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4059 - Waterview Ln - 93195	-	-	63,761	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4060 - Rafton St - 93196	-	-	-	-	-	61,219	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4061 - Brookhouse Dr - 93197	-	-	-	-	-	37,907	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4062 - Ravey St - 93198	-	-	-	-	44,224	-	-	-	-	-	-	-	-	52,852	-	-	-	-	-	-
4063 - Brookhouse Dr - 93199	-	154,087	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4064 - Lakebreeze Drive - 93200	-	35,020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4065 - Cobbledick Rd - 93262	-	-	-	-	-	-	-	23,663	-	-	-	-	-	-	-	27,725	-	-	-	-
4066 - East Beach Rd - 94002	-	-	-	-	-	-	33,744	-	-	-	-	-	-	-	-	40,327	-	-	-	-

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
4067 - East Beach Rd - 94003	55,791	-	-	-	-	-	-	-	-	66,676	-	-	-	-	-	-	-	-	79,684	-
4069 - Port Darlington Rd - 94005	-	-	-	-	-	-	-	-	84,257	-	-	-	-	-	-	-	-	-	-	-
4070 - Port Darlington Rd - 94007	-	-	-	-	233,521	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4071 - South Service Rd - 94008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4072 - Port Darlington Rd - 94009	-	-	-	-	-	-	-	136,298	-	-	-	-	-	-	-	-	-	-	-	-
4073 - Lake Rd - 94011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4074 - Lake Rd - 94012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4075 - Butler Ct - 94014	-	-	34,827	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4076 - Duke St - 94015	-	-	-	-	-	-	28,496	-	-	-	-	-	-	-	-	34,055	-	-	-	-
4077 - Britton Ct - 94016	-	28,891	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4078 - West Beach Rd - 94017	-	-	-	-	-	-	562,846	-	-	-	-	-	-	-	-	-	-	-	-	-
4079 - Watson Cr - 94018	-	-	-	-	-	-	13,023	-	-	-	-	-	-	-	-	15,564	-	-	-	-
4080 - Cove Rd - 94020	-	-	-	-	107,030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4081 - West Beach Rd - 94021	-	-	-	-	-	-	-	101,947	-	-	-	-	-	-	-	119,448	-	-	-	-
4082 - Cedar Crest Beach Rd - 94023	-	-	-	-	-	-	202,758	-	-	-	-	-	-	-	-	242,315	-	-	-	-
4083 - Baseline Rd - 94027	-	-	-	-	-	-	-	91,102	-	-	-	-	-	-	-	-	-	-	-	-
4084 - Baseline Rd - 94029	-	-	-	-	-	191,808	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4085 - Baseline Rd - 94028	-	129,574	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4086 - Baseline Rd - 94032	-	70,040	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4088 - Baseline Rd - 94033	-	-	-	237,190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4089 - Baseline Rd - 94025	-	-	-	60,117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4090 - Baseline Rd - 94044	-	-	-	-	208,701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4091 - Baseline Rd - 94036	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4092 - Baseline Rd - 94040	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4093 - Baseline Rd - 94026	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4094 - Caristrap St - 94035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4095 - Baseline Rd - 94042	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4096 - Mearns Ct S - 94037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4097 - Concession St E - 94038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4098 - Mearns Av - 94039	-	68,639	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4099 - Baseline Rd - 94031	-	58,833	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4100 - Simpson Av - 94041	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4101 - Martin Rd - 94045	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4102 - Martin Rd - 94046	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4103 - Martin Rd - 94047	-	-	-	-	88,449	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4104 - Martin Rd - 94048	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4105 - Squires Gate Dr - 94049	34,333	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4106 - Spicer Sq - 94050	-	-	65,011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4107 - Walbridge Ct - 94051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4108 - Spicer Sq - 94052	-	217,123	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4109 - Penfound Rd - 94053	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4110 - Alonna St - 94055	-	-	136,630	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4111 - Roser Cr - 94057	-	264,925	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4112 - Chantel Ct - 94059	-	32,078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4113 - John Scott Av - 94060	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4114 - Spry Av - 94061	227,629	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4115 - Fairbairn Ct - 94062	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4116 - Loscombe Dr - 94063	-	-	-	-	-	164,325	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4117 - Lockhart Gate - 94064	-	32,744	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4118 - Carruthers Dr - 94065	-	-	-	-	-	109,550	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4119 - John Scott Ct - 94066	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4120 - Waverly Rd - 94067	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4121 - Waverly Rd - 94068	137,951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4122 - Waverly Rd - 94069	-	-	238,040	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4123 - Waverly Rd - 94070	-	-	-	-	-	49,127	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4124 - Rhonda Av - 94071	-	-	-	-	211,645	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4125 - Rosalynne Av - 94073	-	-	-	-	120,038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4126 - Nash Rd - 94074	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4127 - Doreen Cr - 94075	-	-	-	-	161,103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4128 - Trewin Ln - 94076	-	136,928	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4129 - Lawrence Cr - 94077	-	-	291,477	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4130 - Conc Rd 3 - 94078	-	167,561	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4131 - Hillier St - 94079	-	-	-	-	-	106,328	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4132 - Conc Rd 3 - 94080	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4133 - Quinn Dr - 94081	-	-	-	-	-	103,106	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4134 - Conc Rd 3 - 94082	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4135 - Hetherington Dr - 94083	-	-	-	-	-	125,660	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4136 - Hetherington Ct - 94084	29,183	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4137 - Holdgate Cres - 94085	-	-	-	-	-	-	-	87,158	-	-	-	-	-	-	-	-	-	-	-	-
4138 - Conc Rd 3 - 94086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4139 - Cole Av - 94087	-	-	-	-	-	32,221	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Asset Management Replacement Requirements
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
4140 - Conc Rd 3 - 94088	-	-	-	-	-	-	-	169,584	-	-	-	-	-	-	-	-	-	-	-	-
4142 - Little Av - 94089	-	-	-	-	126,355	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4143 - Strike Av - 94091	-	-	-	-	126,355	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4144 - Cole Ct - 94093	-	-	-	-	-	-	-	53,636	-	-	-	-	-	-	-	-	-	-	-	-
4145 - Little Ct - 94095	-	-	-	-	44,224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4146 - Lawrence Gate - 94096	-	-	-	30,969	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4147 - Old Highway 2 - 94097	-	-	-	61,939	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4148 - Old Highway 2 - 94099	-	-	-	-	-	25,018	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4149 - Chapel St - 94100	-	-	-	-	-	31,842	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4150 - Coleman St - 94101	-	-	-	-	-	34,495	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4151 - Rhonda Blvd - 94102	166,344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4152 - Roenigk Dr - 94103	-	-	-	-	-	-	69,945	-	-	-	-	-	-	-	-	-	-	-	-	-
4153 - McCrimmon Cr - 94104	137,161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4154 - Wrenn Blvd - 94106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4155 - Pine St - 94107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4156 - Roenigk Dr - 94108	-	-	-	-	31,589	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4157 - Ann St - 94109	-	-	-	-	-	-	-	11,831	-	-	-	-	-	-	-	-	-	-	-	-
4158 - Ann St - 94111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39,591	-	-	-
4159 - Park Dr - 94114	24,548	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4160 - Park Dr - 94115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4161 - Nelson St - 94117	-	-	-	-	-	22,554	-	-	-	-	-	-	-	-	26,955	-	-	-	-	-
4162 - Nelson St - 94118	-	-	-	-	129,514	-	-	-	-	-	-	-	-	154,782	-	-	-	-	-	-
4164 - Nelson St - 94120	-	-	-	34,066	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4165 - Victoria St - 94121	-	-	-	-	-	-	-	-	30,975	-	-	-	-	-	-	-	-	-	-	-
4166 - Victoria St - 94123	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4167 - Albert St - 94124	-	-	-	-	53,701	-	-	-	-	-	-	-	-	64,178	-	-	-	-	-	-
4168 - Albert St - 94125	-	-	-	-	-	35,443	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4169 - Albert St - 94127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4170 - Albert St - 94129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4171 - Albert St - 94131	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4172 - Alfred Shrubb Lane - 94133	-	-	-	-	-	74,107	-	-	-	-	-	-	-	-	88,565	-	-	-	-	-
4173 - Durham St - 94135	-	-	-	-	-	-	22,116	-	-	-	-	-	-	-	-	26,431	-	-	-	-
4174 - Durham St - 94137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4175 - Durham St - 94139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4176 - Argyle St - 94141	-	-	-	-	-	-	-	34,705	-	-	-	-	-	-	-	-	-	-	-	-
4177 - Washington Pl - 94143	-	-	-	-	7,433	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4178 - Hunt St - 94145	-	-	-	-	-	-	-	117,328	-	-	-	-	-	-	-	-	-	-	-	-
4180 - Hunt St - 94147	-	-	-	-	-	-	-	127,385	-	-	-	-	-	-	-	-	-	-	-	-
4182 - Duke St - 94149	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	158,364	-	-	-
4183 - Duke St - 94151	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65,985	-	-	-
4186 - Ontario St - 94157	-	-	-	-	70,610	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4188 - Ontario St - 94159	-	84,048	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4190 - Ontario St - 94161	-	-	-	134,808	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4192 - Brown St - 94163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4193 - Queen St - 94165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4195 - Queen St - 94169	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4196 - Queen St - 94171	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4197 - Queen St - 94173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4198 - Church St - 94175	-	-	-	173,429	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4199 - Church St - 94177	-	-	62,510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4200 - Church St - 94179	-	-	175,529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4201 - Church St - 94181	-	-	-	-	-	55,723	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4203 - Stevens Rd - 94182	-	-	-	-	-	-	-	140,794	-	-	-	-	-	-	-	-	-	-	-	-
4204 - Stevens Rd - 94183	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4205 - Stevens Rd - 94184	-	-	-	-	-	-	-	201,134	-	-	-	-	-	-	-	-	-	-	-	-
4207 - Munday Ct - 94187	-	-	-	-	-	-	67,354	-	-	-	-	-	-	-	-	-	-	-	-	-
4208 - Luverme Ct - 94189	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4209 - Wellington St - 94191	-	21,327	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4210 - Wellington St - 94193	-	-	-	-	70,610	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4211 - Wellington St - 94194	-	-	-	-	84,732	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4212 - Wellington St - 94195	-	-	-	-	-	126,229	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4213 - Wellington St - 94197	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4214 - Carlisle Av - 94199	-	-	-	-	-	-	-	58,053	-	-	-	-	-	-	-	-	-	-	-	-
4215 - Swindells St - 94200	-	-	-	-	176,898	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4216 - Liberty Pl - 94201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4217 - Swindells St - 94202	-	-	-	-	-	-	-	13,409	-	-	-	-	-	-	-	-	-	-	-	-
4218 - Alexander Blvd - 94203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4219 - Redfern Cr - 94204	-	-	-	-	-	54,775	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4220 - Horsey St - 94205	-	-	-	-	-	-	-	36,086	-	-	-	-	-	-	-	-	-	-	-	-
4221 - Redfern Cr - 94206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16,025	-	-	-

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
4222 - Horsey St - 94207	-	-	-	-	-	-	-	48,114	-	-	-	-	-	-	-	-	-	-	-	-
4223 - Scottsdale Dr - 94208	-	-	-	-	-	98,557	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4224 - Lowe St - 94209	-	-	-	-	-	-	-	47,562	-	-	-	-	-	-	-	-	-	-	-	-
4225 - Lowe St - 94210	-	-	-	-	-	10,159	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4226 - Grant Ln - 94211	-	-	-	16,724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4227 - Scottsdale Dr - 94212	-	-	-	-	78,043	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4228 - Lovers Ln - 94213	-	-	-	-	-	-	-	40,818	-	-	-	-	-	-	-	-	-	-	-	-
4229 - Barlow Ct - 94214	-	-	-	-	31,589	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4230 - Concession St - 94215	-	38,697	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4231 - Forrester Dr - 94216	-	-	-	-	-	-	-	36,875	-	-	-	-	-	-	-	-	-	-	-	-
4232 - Concession St - 94217	-	53,580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4233 - Scottsdale Dr - 94218	-	133,075	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4234 - Concession St - 94219	-	-	-	76,513	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4235 - Concession St - 94220	79,310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4236 - Concession St - 94221	123,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4237 - Concession St - 94222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4238 - Odell St - 94223	-	-	-	-	-	-	-	-	-	-	-	28,175	-	-	-	-	-	-	-	-
4239 - Odell St - 94224	-	-	-	-	-	-	-	36,875	-	-	-	-	-	-	-	-	-	-	-	-
4240 - Odell St - 94225	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4241 - Annisson Ct - 94226	-	-	-	-	-	28,999	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4242 - Sturrock Rd - 94227	-	-	-	-	-	-	23,663	-	-	-	-	-	-	-	-	28,279	-	-	-	-
4243 - Brooking St - 94228	-	-	-	-	-	80,552	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4244 - First St - 94229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4245 - Stephens Gulch Dr - 94230	-	-	100,195	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4246 - First St - 94231	-	-	-	-	-	-	-	33,601	-	-	-	-	-	-	-	-	-	-	-	-
4247 - Borland Ct - 94232	-	50,604	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4248 - Saunders Av - 94233	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4249 - Eldad Dr - 94234	-	-	-	-	50,542	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4250 - Rehder Av - 94235	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4251 - Rehder Av - 94236	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4252 - Lorraine Ct - 94237	-	-	-	-	-	-	-	43,066	-	-	-	-	-	-	-	-	-	-	-	-
4253 - Brooking st - 94238	-	-	-	-	-	28,999	-	-	-	-	-	-	-	-	34,656	-	-	-	-	-
4254 - Edsall Av - 94239	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4255 - Brooking St - 94240	-	-	-	-	22,112	-	-	-	-	-	-	-	-	26,426	-	-	-	-	-	-
4256 - Second St - 94241	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4257 - Second St - 94242	-	-	-	-	-	-	20,879	-	-	-	-	-	-	-	-	24,952	-	-	-	-
4258 - Prout Dr - 94243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4259 - Second St - 94244	-	-	-	-	-	-	-	55,213	-	-	-	-	-	-	-	-	-	-	-	-
4260 - Frederick Av - 94245	-	-	-	-	-	-	57,533	-	-	-	-	-	-	-	-	-	-	-	-	-
4261 - Scottsdale Dr - 94246	-	24,514	-	-	-	-	-	-	-	-	29,296	-	-	-	-	-	-	-	34,325	-
4262 - Veterans Av - 94247	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4263 - Eldad Dr - 94248	-	-	-	126,975	-	-	-	-	-	-	-	148,771	-	-	-	-	-	-	-	-
4264 - Third St - 94249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4265 - Third St - 94251	-	-	-	-	-	-	-	30,367	-	-	-	-	-	-	-	-	-	-	-	-
4266 - Third St - 94253	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4267 - Summerfield Ct - 94255	-	-	-	-	-	-	46,398	-	-	-	-	-	-	-	-	-	-	-	-	-
4268 - Sunset Rd - 94257	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4269 - Jackman Rd - 94259	-	-	-	-	-	-	42,531	-	-	-	-	-	-	-	-	50,829	-	-	-	-
4270 - Jackman Rd - 94261	-	-	-	-	-	-	38,858	-	-	-	-	-	-	-	-	46,439	-	-	-	-
4271 - Jackman Rd - 94263	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4273 - Fourth St - 94266	-	-	-	-	-	-	-	36,875	-	-	-	-	-	-	-	-	-	-	-	-
4274 - Vanstone Ct - 94267	-	-	-	-	-	-	-	113,818	-	-	-	-	-	-	-	-	-	-	-	-
4275 - Sunicrest Blvd - 94269	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4276 - Sunicrest Blvd - 94271	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4277 - Meadowview Blvd - 94272	142,998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4278 - Meadowview Blvd - 94273	-	-	-	-	-	33,206	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4279 - Meadowview Blvd - 94274	-	-	26,076	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4280 - Meadowview Blvd - 94275	-	-	54,759	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4281 - Hogan Cr - 94276	-	-	36,435	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4282 - Bons Ave. - 94278	-	-	-	85,621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4283 - Scugog St - 94279	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4284 - Crockett Place - 94280	-	-	27,326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4285 - Scugog St - 94281	240,332	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4286 - West Scugog Ln - 94282	-	-	-	-	-	269,137	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4287 - North Scugog Ct - 94283	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4288 - Scugog St - 94284	93,730	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4289 - Scugog St - 94285	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4290 - Bons Avenue - 94286	-	-	75,013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4291 - Barbara St - 94287	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4292 - Nicks St - 94288	-	-	-	55,745	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
4293 - Brown St - 94289	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4294 - Childs Court - 94290	-	-	-	43,357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4295 - Brown St - 94291	-	-	-	-	-	-	-	36,993	-	-	-	-	-	-	-	-	-	-	-	-
4296 - George St - 94292	-	-	-	-	-	-	-	31,708	-	-	-	-	-	-	-	-	-	-	-	-
4297 - Ontario St - 94293	41,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4298 - Ontario St - 94294	-	-	-	-	-	-	-	36,441	-	-	-	-	-	-	-	-	-	-	-	-
4299 - Ontario St - 94295	-	-	-	-	-	40,863	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4300 - Goodyear Entrance - 94296	-	-	-	21,424	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4301 - George St - 94297	-	-	-	-	-	33,017	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4302 - George St - 94298	-	-	-	-	-	17,778	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4303 - Centre St - 94299	-	-	90,551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4304 - Brown St - 94300	-	-	-	-	-	-	-	31,708	-	-	-	-	-	-	-	-	-	-	-	-
4305 - Queen Av - 94301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4306 - Hockley Ave - 94302	-	-	63,761	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4307 - Division St - 94303	-	-	-	53,340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4308 - Lunney Crescent - 94304	-	-	112,340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4309 - Division St - 94305	-	-	-	-	-	55,495	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4310 - Division St - 94307	-	-	-	-	37,907	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4311 - Division St - 94308	-	-	-	-	-	-	-	47,957	-	-	-	-	-	-	-	-	-	-	-	-
4312 - Beech Av - 94309	-	-	-	-	-	53,373	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4314 - Temperance St - 94311	-	-	60,832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4315 - Temperance St - 94313	-	-	53,045	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4316 - Temperance St - 94315	-	-	-	-	-	61,409	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4317 - Temperance St - 94317	-	-	-	-	-	25,397	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4318 - Silver St - 94319	-	-	-	-	-	-	-	30,801	-	-	-	-	-	-	-	-	-	-	-	-
4319 - Silver St - 94321	-	-	-	-	-	-	-	40,227	-	-	-	-	-	-	-	-	-	-	-	-
4320 - Elgin St - 94323	-	-	-	77,096	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4321 - Elgin St - 94325	-	-	-	34,103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4322 - Elgin St - 94326	-	-	70,012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4324 - Elgin St - 94327	-	-	-	43,357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4326 - Elgin St - 94328	-	-	-	-	-	47,762	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4328 - Prospect St - 94329	-	-	-	-	-	-	-	-	-	-	37,165	-	-	-	-	-	-	-	-	-
4329 - Prospect St - 94331	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4330 - Prospect St - 94333	44,358	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4331 - Lambs Ln - 94335	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4332 - Lambs Ln - 94337	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4333 - Lambs Ln - 94339	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4334 - High St - 94341	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4335 - High St - 94343	-	-	-	-	-	-	-	44,802	-	-	-	-	-	-	-	-	-	-	-	-
4336 - High St - 94345	-	-	-	-	-	-	-	47,602	-	-	-	-	-	-	-	-	-	-	-	-
4337 - High St - 94347	-	-	-	-	-	-	-	50,402	-	-	-	-	-	-	-	-	-	-	-	-
4338 - High St - 94349	-	-	-	-	61,431	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4339 - Burk Ct - 94351	99,738	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4340 - Bernard St - 94353	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4341 - Shoreview Dr - 94355	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4342 - Shoreview Ct - 94357	25,063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4343 - Hilltop Dr - 94359	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4344 - Haines St - 94361	-	-	-	-	-	-	65,379	-	-	-	-	-	-	-	-	78,133	-	-	-	-
4345 - Haines St - 94363	-	-	-	-	-	-	69,597	-	-	-	-	-	-	-	-	83,174	-	-	-	-
4346 - Simpson Av - 94364	-	54,771	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4347 - Simpson Av - 94365	-	-	40,721	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4348 - Simpson Av - 94366	39,140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4349 - Hobb Dr - 94369	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4350 - Morgandale Cr - 94371	-	-	-	-	-	86,996	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4351 - Soper Ct - 94372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4352 - Deer Park Cr - 94373	-	154,788	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4353 - Wilde Ct - 94375	-	-	15,181	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4354 - Hailey Ct - 94377	-	14,883	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4355 - Ashdale Cr - 94379	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4356 - Parkway Cr - 94381	-	84,363	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4357 - Parkway Cr - 94383	-	155,943	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4358 - Parkway Av - 94385	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4359 - Mutton Ct - 94387	-	-	-	10,639	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4360 - Orchard View Blvd - 94389	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4361 - Flett St - 94391	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4362 - Flett St - 94392	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95,018	-	-	-
4363 - Southway Dr - 94393	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4364 - Nelson St - 94395	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4365 - Jane St - 94397	-	-	-	-	-	80,552	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4366 - Jane St - 94398	-	-	-	55,745	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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4367 - Prince St - 94399	-	147,083	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4368 - Lambert St S - 94401	32,960	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4369 - Lambert St N - 94403	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4370 - St George St - 94405	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4371 - St George St - 94407	-	-	-	-	-	-	-	33,128	-	-	-	-	-	-	-	-	-	-	-	-
4373 - Galbraith Ct - 94408	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4374 - Frank St - 94409	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4375 - Mearns Av - 94410	-	-	-	-	77,671	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4376 - Mearns Av - 94411	-	-	-	-	141,221	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4377 - Mearns Av - 94412	54,933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4378 - Mearns Av - 94413	-	-	-	112,947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4379 - Mearns Av - 94414	-	-	-	-	-	-	-	30,643	-	-	-	-	-	-	-	-	-	-	-	-
4381 - Bradshaw St - 94415	-	-	-	-	-	130,399	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4382 - Climie Ct - 94416	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4383 - Mann St - 94417	-	28,016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4384 - Mann St - 94418	52,530	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4385 - Orchard Park Dr - 94419	116,733	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4386 - Orchard Park Dr - 94420	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4387 - Mann St - 94421	-	-	-	58,842	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4388 - Mearns Av - 94422	-	-	-	-	-	185,136	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4390 - Royal Pines Ct - 94423	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4391 - Peachtree Cr - 94425	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4392 - Strathmanor Dr - 94426	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4393 - Merryfield Ct - 94427	37,938	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4394 - Trudeau Dr - 94429	125,488	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4395 - Trudeau Dr - 94430	-	-	-	-	60,019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4396 - Trudeau Dr - 94431	110,896	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4397 - Marchwood Cr - 94433	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4398 - Marchwood Cr - 94434	-	-	-	-	34,748	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4399 - Hendry Gate - 94435	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4400 - Orr Ct - 94437	-	20,837	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4401 - Soper Creek Dr - 94441	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4402 - Soper Creek Dr - 94443	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4403 - Barley Mill Cr - 94445	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4404 - McFeeters Cr - 94446	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4405 - McFeeters Cr - 94447	-	-	-	-	25,271	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4406 - McFeeters Cr - 94448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4407 - Downham Dr - 94449	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4408 - Souch Ct - 94451	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4409 - Bluehaven Ct - 94452	-	-	-	-	12,636	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4410 - Clinton Ct - 94453	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4411 - Apple Blossom Blvd - 94455	-	122,570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4412 - Apple Blossom Blvd - 94456	-	-	-	94,730	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4413 - Apple Blossom Blvd - 94457	-	-	-	149,382	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4414 - Faircombe Cr - 94459	-	139,904	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4415 - Herriman St - 94461	64,203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4416 - Glanville Cr - 94463	-	-	63,761	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4417 - Tucker Rd - 94465	-	-	69,833	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4418 - Barker Ct - 94467	-	-	21,254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4419 - Hartwell Av - 94469	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4420 - Aspen Springs Dr - 94470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4421 - Bonnycastle Dr - 94471	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4422 - Fry Cr - 94472	87,550	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4423 - Chandler Ct - 94473	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4424 - Landerville Ln - 94474	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4425 - Prestonway Dr - 94475	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4426 - Glen Ray Ct - 94476	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4427 - Vail Meadows Cr - 94477	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4428 - Kershaw Street St - 94479	-	53,580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4429 - Kershaw St - 94480	-	89,301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4430 - Chance Ct - 94481	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4431 - Edgerton Dr - 94482	-	142,881	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4432 - Flaxman Av - 94483	-	62,510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4433 - Ireland St - 94485	-	-	88,050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4434 - Elephant Hill Dr - 94487	-	-	-	-	25,271	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4435 - Elephant Hill Dr - 94489	-	-	106,268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4436 - Green Rd - 94495	-	-	-	-	-	-	101,738	-	-	-	-	-	-	-	-	-	-	-	-	-
4437 - Green Rd - 94500	-	-	-	-	-	144,348	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4438 - King St W - 94501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4439 - Green Rd - 94502	-	-	-	-	-	-	-	100,961	-	-	-	-	-	-	-	-	-	-	-	-

Asset Management Replacement Requirements
2018 to 2037
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
4440 - King St W - 94503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4441 - Green Rd - 94504	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4442 - King St W - 94505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4443 - Green Rd - 94506	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4444 - King St W - 94507	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4445 - Waverly Rd - 94508	75,876	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4446 - King St E - 94509	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4447 - King St E - 94511	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4448 - King St - 94513	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4449 - King St - 94515	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4450 - Green Rd - 94517	-	-	-	135,245	-	-	-	-	-	-	-	-	161,631	-	-	-	-	-	-	-
4452 - Middle Rd - 94561	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4454 - Scugog St - 94563	-	-	-	130,072	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4455 - Scugog St - 94565	-	-	-	133,897	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4456 - Rebecca Ct - 94575	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4457 - Pamela Ct - 94577	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4458 - Avi Ct - 94579	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4459 - Sydel Ct - 94581	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4460 - Gary Ct - 94583	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4461 - Mearns Av - 94593	-	-	-	-	-	-	31,635	-	-	-	-	-	-	-	-	37,807	-	-	-	-
4462 - Freeland Av - 94601	291,832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4463 - Copeland Gate - 94603	26,265	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4465 - Fenwick Av - 94605	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4466 - Lambs Rd - 94606	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4467 - Jollow Dr - 94607	-	26,790	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4468 - Jollow Dr - 94608	43,775	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4469 - Hanning Ct - 94609	26,265	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4470 - Champine Sq - 94610	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4471 - Elford Dr - 94611	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4472 - Lambs Rd - 94612	-	-	-	-	-	-	-	75,667	-	-	-	-	-	-	-	-	90,429	-	-	-
4473 - Pomeroy St - 94613	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4474 - Lambs Rd - 94614	-	-	-	-	-	-	117,049	-	-	-	-	-	-	-	-	139,884	-	-	-	-
4475 - Bates Ct - 94615	17,510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4476 - Clayton Cr - 94617	-	166,695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4477 - Aldcroft Cr - 94619	-	-	54,652	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4478 - Argent St - 94621	-	-	33,398	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4479 - Swindells St - 94623	-	-	-	-	-	-	-	63,692	-	-	-	-	-	-	-	-	-	-	-	-
4480 - Jollow Dr - 94625	-	-	-	-	82,131	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4481 - Ladd Ct - 94627	-	-	-	-	-	12,888	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4482 - Maxwell Ct - 94629	-	-	-	-	-	41,887	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4483 - Rickaby St - 94631	-	-	-	-	-	93,440	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4484 - Rickaby St - 94632	-	-	-	-	50,542	-	-	-	-	-	-	-	-	60,403	-	-	-	-	-	-
4485 - Hooper Sq - 94633	-	166,695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4486 - Rickaby St - 94634	-	-	-	-	-	28,999	-	-	-	-	-	-	-	-	34,656	-	-	-	-	-
4487 - Luttrell St - 94637	-	-	-	-	15,794	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4488 - Simpson Av - 94367	224,951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4489 - Pennington Pl - 94639	-	-	-	-	12,636	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4490 - Brodie Ct - 94641	-	-	-	37,163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4491 - West Side Dr - 94643	-	-	-	94,730	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4492 - Abernethy Cr - 94645	-	107,161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4493 - West Side Dr - 94647	-	147,083	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4494 - Orchard Park Dr - 94651	-	25,004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4495 - Boswell Dr - 94653	-	196,111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4496 - Shady Lane Cr - 94655	-	-	-	102,199	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4497 - High St - 94659	-	-	-	-	-	-	-	43,579	-	-	-	-	-	-	-	-	-	-	-	-
4498 - Hogan Cr - 94661	-	-	42,507	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4499 - Willey Dr - 94667	-	101,207	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4500 - Clarington Blvd - 94669	-	93,153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4501 - Clarington Blvd - 94670	91,326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4502 - Clarington Blvd - 94671	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4503 - Laurelwood St - 94675	-	-	-	83,618	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4504 - Uptown Av - 94679	-	-	-	-	41,697	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4505 - Bonathon Cr - 94681	-	62,510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4506 - Goodwin St - 94683	-	-	-	133,169	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4507 - Goodwin St - 94684	-	-	-	-	72,654	-	-	-	-	-	-	-	-	86,829	-	-	-	-	-	-
4508 - Rustwood Cr - 94685	-	-	-	77,424	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4509 - Clarington Blvd - 94693	-	-	131,165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4510 - Longworth Av - 94694	-	-	-	-	70,239	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4512 - Birmingham Av - 94695	-	-	-	-	-	61,219	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4513 - Longworth Av - 94696	-	-	-	56,109	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
4515 - Longworth Av - 94697	-	-	-	249,942	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4517 - Longworth Av - 94698	-	142,181	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4518 - Prince William Blvd - 94699	-	-	96,445	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4519 - Bonathon Cr - 94701	-	50,604	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4520 - Sommerscales Dr - 94703	-	-	-	-	91,608	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4521 - Longworth Ave - 94704	-	-	162,563	-	-	-	-	-	-	-	190,468	-	-	-	-	-	-	-	-	227,627
4522 - Tilley Rd - 94705	-	-	-	-	66,337	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4523 - Maconnachie Pl - 94707	-	38,697	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4524 - Campling Ct - 94711	-	-	-	-	15,794	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4525 - Mill Ln - 94715	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4526 - Remmington St - 94717	-	-	-	-	25,271	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4527 - Bottrell St - 94719	-	-	-	52,648	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4528 - Green Rd - 94720	-	-	-	-	-	-	-	-	-	-	-	-	-	211,231	-	-	-	-	-	-
4529 - Bannister St - 94721	-	-	115,376	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4530 - Woolner Ln - 94722	-	-	-	-	-	-	-	30,170	-	-	-	-	-	-	-	-	-	-	-	-
4531 - Ivory Ct - 94723	-	44,650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4532 - Millburn Dr - 94724	-	-	218,608	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4533 - Sawmill Ct - 94725	-	-	-	-	22,112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4534 - Bottrell St - 94726	-	127,998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4535 - Dodds Sq - 94727	-	-	-	142,460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4536 - Guildwood Dr - 94729	-	238,135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4537 - Sprucewood Cr - 94731	-	-	-	98,374	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4538 - Hutton Pl - 94732	-	-	-	-	192,692	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4539 - Lownie Ct - 94733	-	-	-	105,296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4540 - Madden Pl - 94734	-	-	-	176,526	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4541 - Budd Ln - 94735	-	-	-	-	-	25,777	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4542 - Dart Ct - 94737	-	-	-	-	-	38,665	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4543 - Weldrick Cr - 94741	-	-	-	-	116,879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4544 - Oxley Ct - 94743	-	-	-	-	22,112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4545 - Rustwood St - 94745	-	-	-	-	60,019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4546 - Hammond St - 94747	-	-	-	-	135,832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4547 - Collier Ln - 94748	-	-	54,652	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4548 - Padfield Dr - 94749	-	-	191,282	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4549 - Sprucewood Cr - 94751	-	-	-	-	252,711	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4550 - Cotton St - 94753	-	-	-	-	-	45,109	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4551 - Argent St - 94755	-	-	-	-	-	-	-	30,170	-	-	-	-	-	-	-	-	-	-	-	-
4552 - Argent St - 94756	-	-	-	-	66,337	-	-	-	-	-	-	-	-	79,278	-	-	-	-	-	-
4553 - Clayton Cr - 94757	-	-	-	-	-	83,774	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4554 - Clayton Cr - 94759	-	-	-	-	-	-	-	30,170	-	-	-	-	-	-	-	-	-	-	-	-
4555 - Daley Drive Dr - 94761	-	-	-	-	56,860	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4556 - High St - 94763	-	-	-	-	60,019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4557 - Higgon St - 94769	-	-	-	-	12,636	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4558 - Don Morris Crt - 94771	-	-	-	-	-	-	101,882	-	-	-	-	-	-	-	-	-	-	-	-	-
4559 - Carlson Place - 94773	-	-	-	-	15,794	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4560 - Donlan Crt - 94775	-	-	-	-	12,636	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4561 - Kellman Place - 94777	-	-	-	-	-	41,887	-	-	-	-	-	-	-	-	50,059	-	-	-	-	-
4562 - Vesna Crt - 94779	-	-	-	-	25,271	-	-	-	-	-	-	-	-	30,201	-	-	-	-	-	-
4563 - Lambs Rd - 94785	-	-	-	-	-	-	-	-	303,325	-	-	-	-	-	-	-	-	-	-	-
4564 - Argent St - 94871	-	59,534	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4565 - Allison St - 94873	-	-	-	68,133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4566 - Kaukonen Crt - 94875	-	-	-	-	-	53,486	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4567 - Winter Rd - 95001	-	-	-	56,984	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4568 - Irwin Rd - 95003	-	-	-	64,416	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4569 - Mill Pond Rd - 95004	-	-	-	-	-	-	20,035	-	-	-	-	-	-	-	-	23,944	-	-	-	-
4570 - Somerville Dr - 95005	-	-	-	-	-	-	61,670	-	-	-	-	-	-	-	-	73,702	-	-	-	-
4571 - Somerville Dr - 95007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4572 - Somerville Dr - 95009	-	-	-	-	-	-	21,090	-	-	-	-	-	-	-	-	25,204	-	-	-	-
4573 - Duchess St - 95011	-	12,257	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4574 - Duchess St - 95013	-	-	32,577	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4575 - Cobbledick St - 95015	-	-	-	-	28,541	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4576 - Cobbledick St - 95017	-	-	-	-	-	-	25,944	-	-	-	-	-	-	-	-	-	-	-	-	-
4577 - Cobbledick St - 95019	-	-	-	29,840	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4578 - Bowen St - 95021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4579 - Princess St - 95023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4580 - Leigh St - 95024	-	-	32,148	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4581 - Princess St - 95025	-	-	-	-	-	-	-	19,167	-	-	-	-	-	-	-	-	-	-	-	-
4582 - North Station St - 95027	-	-	-	37,163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4583 - Station St - 95029	-	78,795	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4584 - Station St - 95030	-	-	-	-	-	-	231,187	-	-	-	-	-	-	-	-	-	-	-	-	-

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
4585 - Station St - 95031	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4586 - Station St - 95033	-	-	-	-	-	-	-	40,783	-	-	-	-	-	-	-	47,783	-	-	-	-
4587 - Church St - 95035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4588 - Church St - 95037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4589 - Church St - 95039	-	-	-	-	16,089	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4590 - Orono Division St - 95041	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4591 - Rowe St - 95043	-	-	-	-	-	36,390	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4592 - Park St - 95045	22,591	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4593 - Park St - 95047	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4594 - Centre View St - 95049	-	-	19,003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4595 - Centre View St - 95051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4596 - Dickson St - 95053	-	-	-	16,614	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4597 - Churchill Av - 95055	-	-	-	-	-	-	21,923	-	-	-	-	-	-	-	-	-	-	-	-	-
4598 - Church St - 95057	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4599 - Church St - 95059	38,728	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4600 - Church St - 95061	-	-	-	-	-	124,713	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4601 - Orono Mill St - 95063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4602 - Orono Mill Ln - 95064	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4603 - Old Cemetery Rd - 95065	-	-	15,003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4604 - Millson Hill Dr - 95067	-	-	-	-	-	53,335	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4605 - Pigott Ln - 95071	-	-	-	-	-	-	27,839	-	-	-	-	-	-	-	-	33,270	-	-	-	-
4606 - Orono Mill Ln - 95073	-	57,783	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4607 - Tamblyn Rd - 95075	-	-	-	-	-	-	47,452	-	-	-	-	-	-	-	-	56,710	-	-	-	-
4608 - Tamblyn Rd - 95077	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4609 - Co-op Rd - 95079	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4610 - Peter's Pike - 95081	151,066	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4611 - Andrews Rd - 95083	-	-	-	-	78,489	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4612 - Davids Cr - 95085	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4613 - Robins Rd - 95087	-	-	-	48,822	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4614 - Old Scugog Rd - 96001	-	-	182,173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4615 - Old Scugog Rd - 96002	-	-	-	-	-	60,044	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4617 - Old Scugog Rd - 96003	-	-	-	-	-	-	72,535	-	-	-	-	-	-	-	-	-	-	-	-	-
4618 - Old Scugog Rd - 96004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4619 - Washington St - 96005	-	-	-	-	-	-	25,132	-	-	-	-	-	-	-	-	30,035	-	-	-	-
4621 - Old Scugog Rd - 96006	-	-	-	-	-	-	23,586	-	-	-	-	-	-	-	-	-	-	-	-	-
4623 - Liberty St - 96007	-	-	-	-	-	-	27,839	-	-	-	-	-	-	-	-	33,270	-	-	-	-
4625 - Liberty St - 96009	-	-	-	-	-	-	30,159	-	-	-	-	-	-	-	-	36,042	-	-	-	-
4627 - Millville Av - 96011	-	-	-	-	-	-	85,836	-	-	-	-	-	-	-	-	102,582	-	-	-	-
4628 - North Division St - 96013	-	-	-	-	-	-	71,916	-	-	-	-	-	-	-	-	85,947	-	-	-	-
4630 - Ormiston Ln - 96015	-	-	-	-	-	-	29,347	-	-	-	-	-	-	-	-	35,072	-	-	-	-
4631 - Ormiston St - 96017	-	-	-	64,453	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4633 - Ormiston St - 96019	-	-	-	-	-	-	99,059	-	-	-	-	-	-	-	-	118,385	-	-	-	-
4635 - Edmonson Av - 96021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4636 - Edmonson Av - 96022	-	-	-	-	-	15,693	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4637 - Elgin Ln - 96023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4638 - Perry Av - 96025	-	-	46,829	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4639 - Perry Av - 96027	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4640 - Perry Av - 96029	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4641 - McCallum St - 96031	-	-	-	-	120,781	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4642 - Millstream Ln - 96033	-	-	-	-	-	27,596	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4643 - Millstream Ln - 96035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4644 - Millstream Ln - 96037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4645 - King Ln - 96039	-	-	-	-	-	-	85,449	-	-	-	-	-	-	-	-	102,120	-	-	-	-
4646 - King Ln - 96041	-	-	-	-	-	-	63,797	-	-	-	-	-	-	-	-	76,243	-	-	-	-
4647 - King Ln - 96043	-	-	-	-	-	-	78,683	-	-	-	-	-	-	-	-	94,033	-	-	-	-
4648 - King Ln - 96045	-	-	-	-	-	-	46,784	-	-	-	-	-	-	-	-	55,912	-	-	-	-
4649 - Water St - 97001	-	-	-	-	-	-	59,930	-	-	-	-	-	-	-	-	71,622	-	-	-	-
4650 - Old Mill St - 97003	-	-	-	-	-	-	25,132	-	-	-	-	-	-	-	-	30,035	-	-	-	-
4651 - Old Mill St - 97005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4652 - Monck St - 97007	-	-	-	-	-	-	77,330	-	-	-	-	-	-	-	-	92,416	-	-	-	-
4653 - Kendal Church St - 97009	-	-	-	-	-	-	65,923	-	-	-	-	-	-	-	-	78,785	-	-	-	-
4654 - Hoy St - 97011	-	-	-	-	-	-	19,332	-	-	-	-	-	-	-	-	23,104	-	-	-	-
4655 - Hoy St - 97013	-	-	-	-	-	-	24,591	-	-	-	-	-	-	-	-	29,388	-	-	-	-
4656 - Dickey St - 97015	-	-	-	-	-	-	22,271	-	-	-	-	-	-	-	-	26,616	-	-	-	-
4657 - Dickey St - 97017	-	-	-	-	-	-	14,886	-	-	-	-	-	-	-	-	17,790	-	-	-	-
4658 - Lakeshore Rd - 98001	-	-	-	-	-	-	139,193	-	-	-	-	-	-	-	-	166,349	-	-	-	-
4659 - Lakeshore Rd - 98003	-	-	-	-	-	-	103,481	-	-	-	-	-	-	-	-	123,669	-	-	-	-
4660 - Lakeshore Rd - 98005	-	-	-	-	-	-	95,607	-	-	-	-	-	-	-	-	114,260	-	-	-	-
4661 - Lakeshore Rd - 98007	-	-	-	-	-	-	93,358	-	-	-	-	-	-	-	-	111,571	-	-	-	-
4662 - Lakeshore Rd - 98009	-	-	-	-	-	-	88,683	-	-	-	-	-	-	-	-	105,984	-	-	-	-
4663 - Lakeshore Rd - 98010	-	-	-	-	-	-	85,414	-	-	-	-	-	-	-	-	102,078	-	-	-	-

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
4664 - Lakeshore Rd - 98011	-	-	-	-	-	-	42,180	-	-	-	-	-	-	-	-	50,409	-	-	-	-
4665 - Lakeshore Rd - 98012	-	-	-	-	-	-	85,414	-	-	-	-	-	-	-	-	102,078	-	-	-	-
4666 - Lakeshore Rd - 98013	-	-	-	-	-	-	94,817	-	-	-	-	-	-	-	-	113,315	-	-	-	-
4667 - Lakeshore Rd - 98015	-	-	-	-	-	-	44,078	-	-	-	-	-	-	-	-	52,677	-	-	-	-
4668 - Lakeshore Rd - 98017	-	122,920	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4669 - Lakeshore Rd - 98019	-	-	-	-	-	-	31,635	-	-	-	-	-	-	-	-	37,807	-	-	-	-
4670 - Lakeshore Rd - 98021	-	-	-	-	-	-	-	110,695	-	-	-	-	-	-	-	-	132,291	-	-	-
4671 - Conc Rd 1 - 98023	-	-	-	-	-	-	94,817	-	-	-	-	-	-	-	-	113,315	-	-	-	-
4672 - Conc Rd 1 - 98025	-	-	-	-	-	-	99,193	-	-	-	-	-	-	-	-	118,544	-	-	-	-
4675 - Conc Rd 1 - 98031	-	-	-	-	-	-	99,193	-	-	-	-	-	-	-	-	118,544	-	-	-	-
4676 - Conc Rd 1 - 98033	-	-	-	-	-	-	199,580	-	-	-	-	-	-	-	-	238,517	-	-	-	-
4677 - Conc Rd 1 - 98035	-	-	-	-	-	-	101,583	-	-	-	-	-	-	-	-	121,401	-	-	-	-
4678 - Conc Rd 1 - 98037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4679 - Conc Rd 1 - 98039	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4680 - Conc Rd 1 - 98041	-	-	-	-	-	-	-	96,713	-	-	-	-	-	-	-	-	115,581	-	-	-
4681 - Conc Rd 1 - 98043	-	-	-	-	-	-	93,674	-	-	-	-	-	-	-	-	111,949	-	-	-	-
4682 - Service Rd - 98045	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4683 - Lovekin Rd - 98047	-	-	-	-	-	-	85,906	-	-	-	-	-	-	-	-	102,666	-	-	-	-
4684 - Browview Rd - 98049	-	-	-	-	-	-	26,890	-	-	-	-	-	-	-	-	32,136	-	-	-	-
4685 - McCullough Rd - 98057	-	-	-	-	-	-	35,765	-	-	-	-	-	-	-	-	42,742	-	-	-	-
4686 - Conc Rd 3 - 98059	-	-	-	-	175,202	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4687 - Conc Rd 3 - 98061	-	-	-	-	358,552	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4688 - Conc Rd 3 - 98063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4689 - Conc Rd 3 - 98065	-	-	388,701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4690 - Conc Rd 3 - 98067	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4691 - Conc Rd 3 - 98069	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4692 - Conc Rd 3 - 98071	-	-	-	-	676,360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4693 - Conc Rd 3 - 98073	-	-	-	-	-	-	353,614	-	-	-	-	-	-	-	-	-	-	-	-	-
4694 - Conc Rd 3 - 98075	-	-	-	-	-	-	-	-	381,526	-	-	-	-	-	-	-	-	-	-	-
4695 - Conc Rd 3 - 98079	-	-	-	-	-	-	95,115	-	-	-	-	-	-	-	-	113,672	-	-	-	-
4696 - Conc Rd 3 - 98081	-	-	-	-	-	-	97,101	-	-	-	-	-	-	-	-	116,045	-	-	-	-
4697 - Conc Rd 3 - 98083	-	-	-	-	-	-	87,523	-	-	-	-	-	-	-	-	104,598	-	-	-	-
4698 - Conc Rd 3 - 98085	-	-	-	-	-	-	88,577	-	-	-	-	-	-	-	-	105,858	-	-	-	-
4699 - Cowanville Rd - 98087	-	-	-	-	-	-	36,029	-	-	-	-	-	-	-	-	43,057	-	-	-	-
4700 - Conc Rd 4 - 98089	-	-	-	-	-	-	143,833	-	-	-	-	-	-	-	-	171,894	-	-	-	-
4701 - Conc Rd 4 - 98091	-	-	-	-	-	-	97,101	-	-	-	-	-	-	-	-	116,045	-	-	-	-
4702 - Conc Rd 4 - 98093	-	-	-	-	-	-	100,528	-	-	-	-	-	-	-	-	120,141	-	-	-	-
4705 - Conc Rd 4 - 98099	-	-	-	-	-	-	55,976	-	-	-	-	-	-	-	-	66,897	-	-	-	-
4706 - Conc Rd 4 - 98101	-	-	-	-	-	-	132,515	-	-	-	-	-	-	-	-	158,367	-	-	-	-
4707 - Conc Rd 4 - 98103	-	-	-	-	-	-	-	106,035	-	-	-	-	-	-	-	-	126,721	-	-	-
4709 - Conc Rd 4 - 98105	-	-	-	-	-	-	-	96,713	-	-	-	-	-	-	-	-	115,581	-	-	-
4711 - Conc Rd 4 - 98107	-	-	-	-	-	-	94,817	-	-	-	-	-	-	-	-	113,315	-	-	-	-
4712 - Conc Rd 4 - 98109	-	-	-	-	-	-	91,389	-	-	-	-	-	-	-	-	109,219	-	-	-	-
4713 - Conc Rd 4 - 98111	-	-	-	-	-	-	99,386	-	-	-	-	-	-	-	-	118,775	-	-	-	-
4714 - Conc Rd 4 - 98113	-	-	-	-	-	-	95,959	-	-	-	-	-	-	-	-	114,680	-	-	-	-
4715 - Conc Rd 4 - 98115	-	-	-	-	-	-	84,359	-	-	-	-	-	-	-	-	100,817	-	-	-	-
4716 - Conc Rd 4 - 98117	-	-	-	-	-	-	88,577	-	-	-	-	-	-	-	-	105,858	-	-	-	-
4717 - Conc Rd 4 - 98119	-	-	-	-	-	-	89,632	-	-	-	-	-	-	-	-	107,118	-	-	-	-
4718 - Conc Rd 4 - 98121	-	-	-	-	-	-	87,523	-	-	-	-	-	-	-	-	104,598	-	-	-	-
4721 - Conc Rd 5 - 98127	-	-	-	-	-	-	-	106,662	-	-	-	-	-	-	-	124,972	-	-	-	-
4723 - Conc Rd 5 - 98129	-	-	-	-	-	-	-	-	15,359	-	-	-	-	-	-	-	-	18,356	-	-
4725 - Conc Rd 5 - 98130	-	-	-	-	-	-	59,104	-	-	-	-	-	-	-	-	70,635	-	-	-	-
4727 - Conc Rd 5 - 98137	-	-	-	-	-	-	-	97,878	-	-	-	-	-	-	-	114,680	-	-	-	-
4728 - Conc Rd 5 - 98139	-	-	-	-	-	-	-	99,043	-	-	-	-	-	-	-	-	118,366	-	-	-
4729 - Conc Rd 5 - 98141	-	-	-	-	-	-	27,417	-	-	-	-	-	-	-	-	32,766	-	-	-	-
4730 - Conc Rd 5 - 98142	-	-	-	-	-	-	-	94,382	-	-	-	-	-	-	-	110,584	-	-	-	-
4731 - Conc Rd 5 - 98143	-	-	-	-	-	-	-	23,663	-	-	-	-	-	-	-	-	28,279	-	-	-
4732 - Conc Rd 5 - 98144	-	-	-	-	-	-	-	75,721	-	-	-	-	-	-	-	-	90,494	-	-	-
4733 - Conc Rd 5 - 98145	-	-	-	-	-	-	-	306,183	-	-	-	-	-	-	-	358,742	-	-	-	-
4734 - Conc Rd 5 - 98149	-	-	-	-	-	-	90,686	-	-	-	-	-	-	-	-	108,379	-	-	-	-
4735 - Conc Rd 5 - 98151	-	-	-	-	-	-	82,110	-	-	-	-	-	-	-	-	98,129	-	-	-	-
4736 - Conc Rd 5 - 98152	-	-	-	-	-	-	-	111,287	-	-	-	-	-	-	-	-	132,998	-	-	-
4737 - Conc Rd 5 - 98153	-	-	-	-	-	-	86,820	-	-	-	-	-	-	-	-	103,758	-	-	-	-
4738 - Conc Rd 5 - 98155	-	-	-	-	-	-	94,817	-	-	-	-	-	-	-	-	113,315	-	-	-	-
4739 - Conc Rd 6 - 98157	-	-	-	-	-	-	-	-	336,369	-	-	-	-	-	-	-	-	-	-	-
4740 - Conc Rd 6 - 98159	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4741 - Conc Rd 6 - 98161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4742 - Conc Rd 6 - 98163	-	-	-	-	-	-	103,762	-	-	-	-	-	-	-	-	124,005	-	-	-	-
4743 - Conc Rd 6 - 98165	-	-	-	-	-	-	105,028	-	-	-	-	-	-	-	-	125,518	-	-	-	-
4744 - Conc Rd 6 - 98167	-	-	-	-	-	-	105,028	-	-	-	-	-	-	-	-	125,518	-	-	-	-

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4745 - Conc Rd 6 - 98169	-	-	-	-	-	-	87,523	-	-	-	-	-	-	-	-	104,598	-	-	-	-
4746 - Conc Rd 6 - 98171	-	-	-	-	-	-	221,444	-	-	-	-	-	-	-	-	264,646	-	-	-	-
4747 - Conc Rd 6 - 98173	-	-	-	-	-	-	-	186,166	-	-	-	-	-	-	-	-	222,485	-	-	-
4748 - Conc Rd 6 - 98175	-	-	-	-	-	-	103,622	-	-	-	-	-	-	-	-	123,837	-	-	-	-
4749 - Conc Rd 7 - 98179	-	-	-	-	-	-	-	55,930	-	-	-	-	-	-	-	65,531	-	-	-	-
4750 - Conc Rd 7 - 98181	-	-	-	-	-	619,236	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4752 - Conc Rd 7 - 98182	-	-	-	-	-	-	-	-	143,237	-	-	-	-	-	-	-	-	-	-	-
4757 - Conc Rd 8 - 98187	-	-	-	-	256,691	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4760 - Conc Rd 8 - 98189	-	-	-	-	342,254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4763 - Conc Rd 8 - 98190	-	-	-	-	24,447	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4766 - Conc Rd 8 - 98191	-	138,994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4769 - Conc Rd 8 - 98192	-	-	-	-	57,042	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4772 - Conc Rd 8 - 98193	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4773 - Conc Rd 8 - 98194	-	-	-	-	-	344,943	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4776 - Conc Rd 8 - 98195	-	-	-	-	158,904	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4779 - Conc Rd 8 - 98196	-	-	-	-	81,489	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4782 - Conc Rd 8 - 98197	-	-	-	-	-	-	-	76,904	-	-	-	-	-	-	-	90,106	-	-	-	-
4783 - Conc Rd 8 - 98198	-	-	-	-	268,914	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4786 - Conc Rd 8 - 98199	-	-	-	-	-	-	94,817	-	-	-	-	-	-	-	-	113,315	-	-	-	-
4787 - Conc Rd 8 - 98201	-	-	-	-	-	-	103,955	-	-	-	-	-	-	-	-	124,236	-	-	-	-
4788 - Conc Rd 8 - 98203	-	-	-	-	-	-	-	83,896	-	-	-	-	-	-	-	98,297	-	-	-	-
4789 - Conc Rd 8 - 98204	-	-	-	-	-	-	-	33,741	-	-	-	-	-	-	-	39,533	-	-	-	-
4790 - Conc Rd 8 - 98205	-	-	-	-	-	-	107,383	-	-	-	-	-	-	-	-	128,332	-	-	-	-
4791 - Conc Rd 8 - 98209	-	-	-	-	-	-	70,651	-	-	-	-	-	-	-	-	84,435	-	-	-	-
4792 - Conc Rd 8 - 98211	-	-	-	-	-	-	16,872	-	-	-	-	-	-	-	-	20,163	-	-	-	-
4794 - Thertell Rd - 98213	-	-	-	-	-	-	93,674	-	-	-	-	-	-	-	-	111,949	-	-	-	-
4795 - Thertell Rd - 98215	-	-	-	-	-	-	93,674	-	-	-	-	-	-	-	-	111,949	-	-	-	-
4796 - Thertell Rd - 98217	-	-	-	-	-	-	190,863	-	-	-	-	-	-	-	-	228,099	-	-	-	-
4797 - Skelding Rd - 98219	-	-	-	-	-	-	85,414	-	-	-	-	-	-	-	-	102,078	-	-	-	-
4798 - Wilcox Rd - 98231	-	-	-	-	-	-	100,915	-	-	-	-	-	-	-	-	120,603	-	-	-	-
4799 - Conc Rd 10 - 98235	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4800 - Conc Rd 10 - 98237	-	-	-	-	-	-	-	65,611	-	-	-	-	-	-	-	76,873	-	-	-	-
4801 - Conc Rd 10 - 98239	-	-	-	-	-	-	108,613	-	-	-	-	-	-	-	-	129,802	-	-	-	-
4802 - Conc Rd 10 - 98241	-	-	-	-	-	-	85,414	-	-	-	-	-	-	-	-	102,078	-	-	-	-
4805 - Lovekin Rd - 98249	-	-	-	-	-	-	49,315	-	-	-	-	-	-	-	-	58,936	-	-	-	-
4806 - Lovekin Rd - 98250	-	-	-	-	-	-	-	54,855	-	-	-	-	-	-	-	64,271	-	-	-	-
4807 - Curve Inn Rd - 98251	-	-	-	-	-	-	112,398	-	-	-	-	-	-	-	-	134,327	-	-	-	-
4808 - Curve Inn Rd - 98252	-	-	-	-	-	-	29,579	-	-	-	-	-	-	-	-	35,349	-	-	-	-
4809 - Gibson Rd - 98255	-	-	-	-	-	-	82,374	-	-	-	-	-	-	-	-	98,444	-	-	-	-
4810 - Brown Rd - 98259	-	-	-	-	-	-	24,647	-	-	-	-	-	-	-	-	29,455	-	-	-	-
4811 - Brown Rd - 98260	-	-	-	-	-	-	216,171	-	-	-	-	-	-	-	-	258,345	-	-	-	-
4812 - Cobble-Dick Rd - 98261	-	-	-	-	-	-	93,165	-	-	-	-	-	-	-	-	111,340	-	-	-	-
4813 - Pollard Rd - 98263	-	-	-	-	-	-	213,008	-	-	-	-	-	-	-	-	254,564	-	-	-	-
4814 - Pollard Rd - 98265	-	-	-	-	-	-	220,389	-	-	-	-	-	-	-	-	263,385	-	-	-	-
4815 - Pollard Rd - 98267	-	-	-	-	-	-	39,438	-	-	-	-	-	-	-	-	47,132	-	-	-	-
4816 - Mosport Rd - 98271	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4817 - Mosport Rd - 98273	-	-	-	-	-	-	41,125	-	-	-	-	-	-	-	-	49,148	-	-	-	-
4818 - Mosport Rd - 98275	-	-	-	-	-	-	151,847	-	-	-	-	-	-	-	-	181,471	-	-	-	-
4819 - Mosport Rd - 98277	199,501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4820 - Mosport Rd - 98279	255,963	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4821 - Bellwood Dr - 98281	-	-	-	-	-	-	260,291	-	-	-	-	-	-	-	-	311,072	-	-	-	-
4822 - Lockhart Rd - 98283	-	-	-	-	-	-	229,616	-	-	-	-	-	-	-	-	274,412	-	-	-	-
4823 - Squair Rd - 98285	-	-	-	-	-	-	223,553	-	-	-	-	-	-	-	-	267,166	-	-	-	-
4825 - Ochonski Rd - 98287	-	-	-	-	-	-	36,292	-	-	-	-	-	-	-	-	43,372	-	-	-	-
4826 - Ochonski Rd - 98288	-	-	-	-	-	-	82,953	-	-	-	-	-	-	-	-	99,137	-	-	-	-
4828 - Ochonski Rd - 98289	-	-	-	-	-	-	313,455	-	-	-	-	-	-	-	-	374,608	-	-	-	-
4829 - Leskard Rd - 98291	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4830 - Leskard Rd - 98293	-	-	-	-	264,840	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4831 - Leskard Rd - 98294	-	-	110,090	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4832 - Leskard Rd - 98295	-	-	-	-	-	-	224,607	-	-	-	-	-	-	-	-	268,426	-	-	-	-
4837 - Best Rd - 98307	-	-	-	-	-	-	216,171	-	-	-	-	-	-	-	-	258,345	-	-	-	-
4838 - Arthur St - 98315	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4839 - Tamblyn Rd - 98319	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4840 - Moffat Rd - 98321	-	-	-	-	-	-	-	238,995	-	-	-	-	-	-	-	-	285,621	-	-	-
4842 - Gamsby Rd - 98322	-	-	-	-	-	-	229,405	-	-	-	-	-	-	-	-	274,160	-	-	-	-
4843 - Old Kirby School Rd - 98324	-	-	-	-	-	-	-	36,122	-	-	-	-	-	-	-	-	43,169	-	-	-
4844 - Lawrence Rd - 98325	-	-	-	-	-	-	246,751	-	-	-	-	-	-	-	-	294,891	-	-	-	-
4846 - Stephenson Rd - 98329	-	-	-	-	-	-	201,598	-	-	-	-	-	-	-	-	240,928	-	-	-	-
4847 - Vickers Rd - 98331	-	-	-	-	-	-	251,339	-	-	-	-	-	-	-	-	300,373	-	-	-	-
4848 - Cooney Rd - 98335	-	-	-	-	-	-	-	210,814	-	-	-	-	-	-	-	247,003	-	-	-	-

Asset Management Replacement Requirements
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
4849 - Golf Course Rd - 98343	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4850 - Golf Course Rd - 98345	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4851 - Golf Course Rd - 98347	-	-	-	-	-	-	215,117	-	-	-	-	-	-	-	-	257,084	-	-	-	-
4852 - Jewel Rd - 98351	-	-	-	-	-	-	108,613	-	-	-	-	-	-	-	-	129,802	-	-	-	-
4854 - Brownsville Rd - 98360	-	-	-	-	-	-	70,651	-	-	-	-	-	-	-	-	84,435	-	-	-	-
4855 - Brownsville Ct - 98361	-	-	-	-	-	-	-	35,968	-	-	-	-	-	-	-	42,142	-	-	-	-
4856 - Brownsville Rd - 98363	-	-	-	-	-	-	115,783	-	-	-	-	-	-	-	-	138,372	-	-	-	-
4857 - Walsh Rd - 98366	-	-	-	-	-	-	221,391	-	-	-	-	-	-	-	-	264,583	-	-	-	-
4858 - Patterson Rd - 98367	-	-	-	-	-	-	-	-	52,679	-	-	-	-	-	-	-	61,722	-	-	-
4859 - Morgans Rd - 98375	-	-	-	-	-	-	169,563	-	-	-	-	-	-	-	-	202,643	-	-	-	-
4860 - Morgans Rd - 98377	-	-	-	-	-	-	93,024	-	-	-	-	-	-	-	-	111,172	-	-	-	-
4861 - Morgans Rd - 98379	-	-	-	-	-	-	108,332	-	-	-	-	-	-	-	-	129,466	-	-	-	-
4862 - Old Sideroad 16/17 - 98383	-	-	-	-	-	-	15,817	-	-	-	-	-	-	-	-	18,903	-	-	-	-
4863 - Morgans Rd - 98385	-	-	-	-	-	-	236,470	-	-	-	-	-	-	-	-	282,604	-	-	-	-
4864 - Morgans Rd - 98387	-	-	-	-	-	-	118,314	-	-	-	-	-	-	-	-	141,396	-	-	-	-
4865 - Morgans Rd - 98389	-	-	-	-	-	-	119,474	-	-	-	-	-	-	-	-	142,783	-	-	-	-
4866 - Maynard Rd - 98405	-	-	-	-	-	-	59,157	-	-	-	-	-	-	-	-	70,698	-	-	-	-
4867 - Coven Rd - 98411	-	-	-	-	-	-	20,387	-	-	-	-	-	-	-	-	24,364	-	-	-	-
4869 - Carscadden Rd - 98417	-	-	-	-	-	-	128,121	-	-	-	-	-	-	-	-	153,116	-	-	-	-
4870 - Stapleton Rd - 98419	-	-	-	-	-	-	206,751	-	-	-	-	-	-	-	-	247,087	-	-	-	-
4871 - Cedar Valley Rd - 98421	-	-	-	-	-	-	52,092	-	-	-	-	-	-	-	-	62,255	-	-	-	-
4872 - Hillen Rd - 98425	-	-	-	-	-	-	31,371	-	-	-	-	-	-	-	-	37,491	-	-	-	-
4873 - Hillen Rd - 98427	-	-	-	-	-	-	-	31,550	-	-	-	-	-	-	-	36,966	-	-	-	-
4874 - Bellamy Rd - 98429	-	-	-	-	-	-	127,277	-	-	-	-	-	-	-	-	152,108	-	-	-	-
4875 - Ovens Rd - 98431	-	-	-	-	-	-	56,468	-	-	-	-	-	-	-	-	67,485	-	-	-	-
4876 - Reid Rd - 98432	-	-	-	-	-	-	168,719	-	-	-	-	-	-	-	-	201,635	-	-	-	-
4877 - Reid Rd - 98433	-	-	-	-	-	-	113,833	-	-	-	-	-	-	-	-	136,040	-	-	-	-
4878 - Reid Rd - 98434	-	-	-	-	-	-	171,882	-	-	-	-	-	-	-	-	205,415	-	-	-	-
4879 - Reid Rd - 98435	-	-	-	-	-	-	256,347	-	-	-	-	-	-	-	-	306,359	-	-	-	-
4880 - White Rd - 98436	-	-	-	-	-	-	185,591	-	-	-	-	-	-	-	-	221,798	-	-	-	-
4881 - Newtonville Rd - 98441	-	-	-	-	-	-	327,455	-	-	-	-	-	-	-	-	391,339	-	-	-	-
4882 - Newtonville Rd - 98443	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4883 - Thompson Rd - 98445	-	-	-	-	-	-	205,626	-	-	-	-	-	-	-	-	245,742	-	-	-	-
4884 - The Dell Rd - 98447	-	-	-	-	-	-	141,654	-	-	-	-	-	-	-	-	169,289	-	-	-	-
4885 - Stewart Rd - 98455	-	-	-	-	-	-	230,758	-	-	-	-	-	-	-	-	275,778	-	-	-	-
4886 - Mercer Rd - 98457	-	-	-	-	-	-	313,009	-	-	-	-	-	-	-	-	374,075	-	-	-	-
4887 - Elliot Rd - 98467	-	-	-	-	-	-	106,504	-	-	-	-	-	-	-	-	127,282	-	-	-	-
4888 - Elliot Rd - 98468	-	-	-	-	-	-	88,577	-	-	-	-	-	-	-	-	105,858	-	-	-	-
4889 - Elliot Rd - 98469	-	-	-	-	-	-	233,043	-	-	-	-	-	-	-	-	278,508	-	-	-	-
4890 - Shiloh Rd - 98471	-	-	-	-	-	-	216,382	-	-	-	-	-	-	-	-	258,597	-	-	-	-
4891 - Shiloh Rd - 98473	-	-	-	-	-	-	277,261	-	-	-	-	-	-	-	-	331,353	-	-	-	-
4892 - Langstaff Rd - 98475	-	-	-	-	-	-	309,582	-	-	-	-	-	-	-	-	369,979	-	-	-	-
4893 - Langstaff Rd - 98477	-	-	-	-	-	-	125,660	-	-	-	-	-	-	-	-	150,176	-	-	-	-
4894 - Skops Ct - 98485	-	-	-	-	-	-	82,936	-	-	-	-	-	-	-	-	99,116	-	-	-	-
4895 - Gilmore Rd - 98491	-	-	-	-	-	-	235,152	-	-	-	-	-	-	-	-	281,028	-	-	-	-
4896 - Gilmore Rd - 98493	-	-	-	-	-	-	-	245,018	-	-	-	-	-	-	-	287,078	-	-	-	-
4897 - East Townline Rd - 98503	-	-	-	-	-	-	198,245	-	-	-	-	-	-	-	-	236,921	-	-	-	-
4898 - East Townline Rd - 98505	-	-	-	-	-	-	-	-	192,339	-	-	-	-	-	-	-	225,356	-	-	-
4899 - McCullough Rd - 98507	-	-	-	-	-	-	-	-	83,368	-	-	-	-	-	-	-	97,679	-	-	-
4900 - East Townline Rd - 98509	-	-	-	-	-	-	23,041	-	-	-	-	-	-	-	-	27,536	-	-	-	-
4901 - East Townline Rd - 98511	-	-	-	-	-	-	-	36,785	-	-	-	-	-	-	-	-	43,961	-	-	-
4902 - East Townline Rd - 98513	-	-	-	-	-	-	150,898	-	-	-	-	-	-	-	-	180,337	-	-	-	-
4903 - Decker Hollow Road - 98517	-	-	-	-	-	-	41,372	-	-	-	-	-	-	-	-	49,444	-	-	-	-
4904 - Cold Springs Camp Rd - 98519	-	-	-	-	-	-	285,768	-	-	-	-	-	-	-	-	341,519	-	-	-	-
4905 - Cold Springs Camp Rd - 98523	-	-	-	-	-	-	92,268	-	-	-	-	-	-	-	-	110,269	-	-	-	-
4906 - South Service Rd - 99005	-	-	-	-	130,383	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4907 - South Service Rd - 99006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4908 - South Service Rd - 99007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4909 - South Service Rd - 99009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4910 - Wilmot Creek Rd - 99011	-	-	-	-	-	170,394	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4911 - Baseline Rd - 99025	-	-	-	336,497	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4912 - Baseline Rd - 99027	-	-	-	-	-	-	357,094	-	-	-	-	-	-	-	-	-	-	-	-	-
4913 - Baseline Rd - 99029	-	-	-	-	-	126,539	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4914 - Baseline Rd - 99030	-	-	-	-	-	139,193	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4915 - Bloor St - 99035	-	-	-	-	-	-	357,094	-	-	-	-	-	-	-	-	-	-	-	-	-
4916 - Bloor St - 99037	-	-	-	-	-	-	357,094	-	-	-	-	-	-	-	-	-	-	-	-	-
4917 - Bloor St - 99039	-	-	-	-	-	-	365,698	-	-	-	-	-	-	-	-	-	-	-	-	-
4918 - Bloor St - 99041	-	-	-	-	-	-	348,489	-	-	-	-	-	-	-	-	-	-	-	-	-
4919 - Bloor St - 99043	-	-	-	-	-	-	361,396	-	-	-	-	-	-	-	-	-	-	-	-	-
4920 - Concession St E - 99047	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
4921 - Concession St E - 99049	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4922 - Nash Rd - 99063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4923 - Nash Rd - 99065	-	-	-	-	166,019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4924 - Nash Rd - 99066	-	-	-	-	158,113	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4925 - Nash Rd - 99067	-	-	-	-	-	-	-	118,709	-	-	-	-	-	-	-	-	-	-	-	-
4926 - Nash Rd - 99068	-	-	-	-	-	-	-	180,698	-	-	-	-	-	-	-	-	-	-	-	-
4927 - Nash Rd - 99069	-	-	-	-	338,180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4928 - Nash Rd - 99071	-	140,971	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4929 - Nash Rd - 99073	-	140,971	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4930 - Conc Rd 3 - 99083	279,784	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4931 - Conc Rd 3 - 99085	-	-	-	-	-	-	-	99,689	-	-	-	-	-	-	-	-	119,137	-	-	-
4933 - Conc Rd 3 - 99087	-	-	-	-	-	-	-	-	101,682	-	-	-	-	-	-	-	-	121,520	-	-
4935 - Gearing's Ln - 99090	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4936 - Kresia Ln - 99092	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4938 - Pebblestone Rd - 99095	-	-	-	-	-	-	357,979	-	-	-	-	-	-	-	-	-	-	-	-	-
4940 - Conc Rd 4 - 99101	-	-	-	-	-	-	35,853	-	-	-	-	-	-	-	-	42,847	-	-	-	-
4941 - Conc Rd 4 - 99103	-	-	-	-	-	-	88,577	-	-	-	-	-	-	-	-	105,858	-	-	-	-
4943 - Conc Rd 4 - 99107	-	-	-	-	-	-	93,674	-	-	-	-	-	-	-	-	111,949	-	-	-	-
4944 - Conc Rd 4 - 99108	-	-	-	-	-	-	-	48,939	-	-	-	-	-	-	-	-	58,487	-	-	-
4945 - Conc Rd 4 - 99109	-	-	-	-	-	-	-	44,278	-	-	-	-	-	-	-	51,879	-	-	-	-
4947 - Conc Rd 4 - 99111	-	-	-	-	-	-	68,542	-	-	-	-	-	-	-	-	81,914	-	-	-	-
4948 - Conc Rd 4 - 99113	-	-	-	-	-	-	87,523	-	-	-	-	-	-	-	-	104,598	-	-	-	-
4949 - Prince Rupert Dr - 99114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4950 - Lord Duncan Ct - 99116	49,028	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4951 - Firner St - 99117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4952 - Bradley Blvd - 99119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4953 - Tyler St - 99121	-	-	120,020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4954 - Mearns Av - 99123	-	-	-	-	-	-	85,414	-	-	-	-	-	-	-	-	102,078	-	-	-	-
4955 - Conc Rd 6 - 99131	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4956 - Conc Rd 6 - 99133	-	-	-	-	339,092	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4957 - Conc Rd 6 - 99135	-	-	-	-	-	-	529,187	-	-	-	-	-	-	-	-	-	-	-	-	-
4958 - Conc Rd 6 - 99137	-	-	-	-	-	-	182,280	-	-	-	-	-	-	-	-	-	-	-	-	-
4959 - Conc Rd 6 - 99138	-	-	-	-	-	-	178,167	-	-	-	-	-	-	-	-	-	-	-	-	-
4960 - Conc Rd 6 - 99139	-	-	-	88,609	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4962 - Conc Rd 6 - 99141	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4963 - Conc Rd 6 - 99142	-	-	-	-	-	-	-	-	172,003	-	-	-	-	-	-	-	-	-	-	-
4964 - Conc Rd 6 - 99143	-	-	-	-	-	-	334,886	-	-	-	-	-	-	-	-	-	-	-	-	-
4965 - Conc Rd 6 - 99145	-	-	-	-	-	353,255	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4966 - Conc Rd 6 - 99147	-	-	-	-	334,105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4969 - Conc Rd 6 - 99149	-	-	-	-	-	340,787	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4972 - Conc Rd 6 - 99151	-	-	-	327,554	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4975 - Conc Rd 6 - 99153	-	-	-	90,987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4979 - Conc Rd 6 - 99155	-	-	-	-	-	-	-	-	100,457	-	-	-	-	-	-	-	117,702	-	-	-
4980 - Conc Rd 6 - 99157	-	-	-	-	-	92,354	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4983 - Conc Rd 6 - 99159	-	-	-	-	-	96,972	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4986 - Conc Rd 6 - 99161	-	-	-	75,453	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4989 - Conc Rd 6 - 99163	-	-	-	-	-	-	-	111,861	-	-	-	-	-	-	-	-	133,684	-	-	-
4990 - Conc Rd 7 - 99167	-	-	-	-	-	-	-	-	551,290	-	-	-	-	-	-	-	-	-	-	-
4993 - Conc Rd 7 - 99169	-	-	-	-	-	340,787	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4996 - Conc Rd 7 - 99171	-	-	-	-	-	340,787	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4999 - Conc Rd 7 - 99173	-	-	-	-	-	403,127	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5000 - Conc Rd 7 - 99174	-	-	-	-	-	-	288,256	-	-	-	-	-	-	-	-	-	-	-	-	-
5001 - Conc Rd 7 - 99175	308,662	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5002 - Conc Rd 7 - 99177	308,662	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5003 - Conc Rd 7 - 99179	-	-	-	-	-	-	351,842	-	-	-	-	-	-	-	-	-	-	-	-	-
5006 - Conc Rd 7 - 99181	-	-	-	-	325,956	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5009 - Conc Rd 7 - 99183	-	-	-	-	-	344,943	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5012 - Conc Rd 7 - 99185	-	-	-	-	-	340,787	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5015 - Conc Rd 7 - 99187	-	-	-	-	-	295,072	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5018 - Conc Rd 7 - 99188	-	-	-	-	-	58,414	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5021 - Conc Rd 7 - 99189	-	-	-	-	-	111,749	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5024 - Conc Rd 7 - 99190	-	-	-	-	-	83,119	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5027 - Conc Rd 7 - 99191	-	-	-	-	-	340,787	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5030 - Conc Rd 7 - 99192	-	-	-	-	-	74,807	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5033 - Conc Rd 7 - 99193	-	-	-	-	-	340,787	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5036 - Conc Rd 7 - 99195	-	-	-	-	-	340,787	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5039 - Conc Rd 8 - 99199	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5040 - Conc Rd 8 - 99201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5041 - Conc Rd 8 - 99203	-	-	-	-	-	-	-	96,713	-	-	-	-	-	-	-	113,315	-	-	-	-
5043 - Conc Rd 8 - 99205	-	-	-	-	-	-	-	111,861	-	-	-	-	-	-	-	131,063	-	-	-	-
5044 - Conc Rd 8 - 99207	-	-	-	-	-	-	98,068	-	-	-	-	-	-	-	-	117,200	-	-	-	-
5045 - Conc Rd 8 - 99209	-	-	-	-	-	-	97,998	-	-	-	-	-	-	-	-	117,116	-	-	-	-

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5046 - Conc Rd 8 - 99211	-	-	-	-	-	-	88,577	-	-	-	-	-	-	-	-	105,858	-	-	-	-
5047 - Conc Rd 9 - 99213	-	-	-	-	-	-	-	181,361	-	-	-	-	-	-	-	-	216,744	-	-	-
5048 - Conc Rd 9 - 99214	-	-	-	-	-	-	-	30,027	-	-	-	-	-	-	-	-	35,885	-	-	-
5049 - Conc Rd 9 - 99215	-	-	-	-	-	-	-	89,722	-	-	-	-	-	-	-	-	107,226	-	-	-
5050 - Conc Rd 9 - 99219	-	-	-	-	-	-	89,491	-	-	-	-	-	-	-	-	106,950	-	-	-	-
5051 - Conc Rd 9 - 99221	-	-	-	-	-	-	-	93,683	-	-	-	-	-	-	-	109,765	-	-	-	-
5053 - Conc Rd 9 - 99223	-	-	-	-	-	-	40,493	-	-	-	-	-	-	-	-	48,392	-	-	-	-
5055 - Conc Rd 9 - 99224	-	-	-	-	-	-	-	-	52,661	-	-	-	-	-	-	-	-	62,934	-	-
5057 - Conc Rd 9 - 99227	-	-	-	-	-	-	-	187,008	-	-	-	-	-	-	-	-	223,492	-	-	-
5058 - Conc Rd 10 - 99229	-	-	-	-	-	-	196,839	-	-	-	-	-	-	-	-	235,241	-	-	-	-
5059 - Conc Rd 10 - 99230	-	-	-	-	-	-	45,414	-	-	-	-	-	-	-	-	54,273	-	-	-	-
5060 - Conc Rd 10 - 99231	-	-	-	-	-	-	76,275	-	-	-	-	-	-	-	-	91,156	-	-	-	-
5061 - Conc Rd 10 - 99232	-	-	-	-	-	-	125,485	-	-	-	-	-	-	-	-	149,966	-	-	-	-
5062 - Conc Rd 10 - 99233	-	-	-	-	-	-	-	96,301	-	-	-	-	-	-	-	112,831	-	-	-	-
5063 - Conc Rd 10 - 99235	-	-	-	-	-	-	193,605	-	-	-	-	-	-	-	-	231,376	-	-	-	-
5064 - Conc Rd 10 - 99236	-	-	-	-	-	-	23,550	-	-	-	-	-	-	-	-	28,145	-	-	-	-
5065 - Conc Rd 10 - 99237	-	-	-	-	-	-	42,268	-	-	-	-	-	-	-	-	50,514	-	-	-	-
5066 - Conc Rd 10 - 99238	-	-	-	-	-	-	63,973	-	-	-	-	-	-	-	-	76,453	-	-	-	-
5067 - Conc Rd 10 - 99240	-	-	-	-	-	-	33,129	-	-	-	-	-	-	-	-	39,592	-	-	-	-
5068 - Conc Rd 10 - 99241	-	-	-	-	-	-	154,220	-	-	-	-	-	-	-	-	184,307	-	-	-	-
5069 - Conc Rd 10 - 99243	-	-	-	-	-	-	-	56,468	-	-	-	-	-	-	-	66,161	-	-	-	-
5070 - Conc Rd 10 - 99244	-	-	-	-	-	-	29,877	-	-	-	-	-	-	-	-	35,706	-	-	-	-
5071 - Boundary Rd - 99251	62,486	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5072 - Boundary Rd - 99253	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5073 - West Townline Rd - 99273	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5074 - West Townline Rd - 99274	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5075 - West Townline Rd - 99279	52,698	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5076 - West Towline Rd - 99283	-	-	-	-	-	-	-	-	26,111	-	-	-	-	-	-	-	30,593	-	-	-
5077 - West Towline Rd - 99285	-	-	-	-	-	-	-	261,008	-	-	-	-	-	-	-	-	311,929	-	-	-
5078 - West Townline Rd - 99287	-	-	-	-	-	-	252,463	-	-	-	-	-	-	-	-	301,717	-	-	-	-
5079 - Fices Rd - 99289	-	-	-	-	-	-	103,428	-	-	-	-	-	-	-	-	123,606	-	-	-	-
5080 - Leask Rd - 99291	-	-	-	-	-	-	115,994	-	-	-	-	-	-	-	-	138,624	-	-	-	-
5081 - Cochrane's Rd - 99293	-	-	-	-	-	-	50,194	-	-	-	-	-	-	-	-	59,986	-	-	-	-
5082 - Tooley Rd - 99303	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5085 - Langmaid Rd - 99311	-	-	-	-	-	-	253,360	-	-	-	-	-	-	-	-	302,788	-	-	-	-
5086 - Langmaid Rd - 99313	-	-	-	-	-	-	156,065	-	-	-	-	-	-	-	-	186,512	-	-	-	-
5087 - Timberlane Ct - 99314	-	127,472	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5088 - Langmaid Rd - 99315	-	-	-	-	-	-	51,670	-	-	-	-	-	-	-	-	61,751	-	-	-	-
5090 - Trulls Rd - 99329	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5091 - Trulls Rd - 99330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5092 - Enfield Rd - 99331	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5093 - Enfield Rd - 99332	-	-	-	-	-	-	32,162	-	-	-	-	-	-	-	-	38,437	-	-	-	-
5094 - Enfield Rd - 99333	26,530	-	-	-	-	-	-	-	-	31,706	-	-	-	-	-	-	-	-	37,892	-
5095 - Ormiston Rd - 99335	-	-	-	-	-	-	-	-	243,701	-	-	-	-	-	-	-	-	291,246	-	-
5096 - Ormiston Rd - 99355	-	-	-	-	-	-	-	105,551	-	-	-	-	-	-	-	-	126,143	-	-	-
5097 - Hancock Rd - 99373	-	-	-	-	-	-	171,882	-	-	-	-	-	-	-	-	205,415	-	-	-	-
5098 - Hancock Rd - 99375	-	-	-	-	-	-	56,099	-	-	-	-	-	-	-	-	67,044	-	-	-	-
5099 - Hancock Rd - 99377	-	-	-	-	-	-	67,909	-	-	-	-	-	-	-	-	81,158	-	-	-	-
5100 - Washington Rd - 99383	-	-	-	-	-	-	42,180	-	-	-	-	-	-	-	-	50,409	-	-	-	-
5101 - Solina Rd - 99403	-	-	-	-	-	-	199,299	-	-	-	-	-	-	-	-	238,181	-	-	-	-
5102 - Solina Rd - 99405	-	-	-	-	-	-	158,789	-	-	-	-	-	-	-	-	189,768	-	-	-	-
5103 - Solina Rd - 99407	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5104 - Solina Rd - 99408	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5105 - Solina Rd - 99409	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5106 - Solina Rd - 99411	-	-	-	-	-	-	184,870	-	-	-	-	-	-	-	-	220,937	-	-	-	-
5107 - Solina Rd - 99412	-	-	-	-	-	-	-	116,263	-	-	-	-	-	-	-	136,221	-	-	-	-
5108 - Solina Rd - 99413	-	111,713	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5109 - Solina Rd - 99415	-	-	-	-	-	-	65,941	-	-	-	-	-	-	-	-	78,806	-	-	-	-
5110 - Solina Rd - 99416	-	-	-	-	-	-	116,574	-	-	-	-	-	-	-	-	139,317	-	-	-	-
5111 - Solina Rd - 99417	-	-	-	-	-	-	206,681	-	-	-	-	-	-	-	-	247,003	-	-	-	-
5112 - Union School Rd - 99425	-	-	-	30,141	-	-	-	-	-	-	-	-	36,022	-	-	-	-	-	-	-
5113 - Rundle Rd - 99433	-	-	-	-	-	-	-	-	123,972	-	-	-	-	-	-	-	145,253	-	-	-
5114 - Rundle Rd - 99435	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5117 - Rundle Rd - 99439	-	-	-	-	-	-	236,470	-	-	-	-	-	-	-	-	282,604	-	-	-	-
5118 - Rundle Rd - 99443	-	-	-	-	-	-	211,953	-	-	-	-	-	-	-	-	253,304	-	-	-	-
5119 - Baker School Rd - 99447	-	-	-	-	-	-	128,349	-	-	-	-	-	-	-	-	153,389	-	-	-	-
5120 - Holt Rd - 99448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5121 - Holt Rd - 99449	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5122 - Holt Rd - 99451	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5123 - Holt Rd - 99453	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5124 - Holt Rd - 99455	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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5126 - Holt Rd - 99463	-	-	-	-	-	-	11,810	-	-	-	-	-	-	-	-	14,114	-	-	-	-
5127 - Holt Rd - 99465	-	-	-	-	-	-	139,193	-	-	-	-	-	-	-	-	166,349	-	-	-	-
5128 - Holt Rd - 99469	-	-	-	-	-	-	80,142	-	-	-	-	-	-	-	-	95,777	-	-	-	-
5129 - Holt Rd - 99471	-	-	-	-	-	-	73,815	-	-	-	-	-	-	-	-	88,215	-	-	-	-
5130 - Holt Rd - 99474	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5131 - Holt Rd - 99475	-	-	-	-	-	-	101,267	-	-	-	-	-	-	-	-	121,023	-	-	-	-
5132 - Maple Grove Rd - 99481	-	-	-	-	-	-	41,565	-	-	-	-	-	-	-	-	49,674	-	-	-	-
5133 - Maple Grove Rd - 99483	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5134 - Maple Grove Rd - 99484	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5135 - Maple Grove Rd - 99485	-	462,227	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5136 - Maple Grove Rd - 99487	-	-	-	-	-	-	126,803	-	-	-	-	-	-	-	-	151,541	-	-	-	-
5137 - Maple Grove Rd - 99491	-	-	-	-	-	-	-	20,329	-	-	-	-	-	-	-	-	24,294	-	-	-
5138 - Green Rd - 99505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5139 - Green Rd - 99507	-	-	-	-	-	-	256,945	-	-	-	-	-	-	-	-	307,073	-	-	-	-
5140 - Old Scugog Crt - 99511	-	-	-	-	-	-	-	60,182	-	-	-	-	-	-	-	-	-	-	-	-
5141 - Andelwood Ct - 99513	-	-	16,753	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5142 - Maryleah Ct - 99515	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5143 - Glenelge Ct - 99517	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5144 - Taunus Ct - 99519	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5145 - Craig Ct - 99521	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5146 - Buttery Ct - 99523	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5147 - Old Scugog Rd - 99525	-	-	-	-	-	-	602,453	-	-	-	-	-	-	-	-	-	-	-	-	-
5148 - Old Scugog Rd - 99527	193,827	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5149 - Old Scugog Rd - 99529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5150 - Old Scugog Rd - 99530	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5151 - Old Scugog Rd - 99531	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5152 - Old Scugog Rd - 99532	66,856	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5154 - Old Scugog Rd - 99533	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5157 - Old Scugog Rd - 99535	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5159 - Old Scugog Rd - 99537	-	143,161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5160 - Old Scugog Rd - 99539	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5161 - Old Scugog Rd - 99541	-	-	-	-	-	-	59,755	-	-	-	-	-	-	-	-	71,412	-	-	-	-
5163 - Old Scugog Rd - 99542	-	-	-	-	-	-	111,144	-	-	-	-	-	-	-	-	132,827	-	-	-	-
5165 - Old Scugog Rd - 99543	-	-	-	-	-	-	-	257,208	-	-	-	-	-	-	-	301,360	-	-	-	-
5166 - Old Scugog Rd - 99545	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5168 - Middle Rd - 99562	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5169 - Middle Rd - 99563	-	-	-	-	-	-	-	240,034	-	-	-	-	-	-	-	281,238	-	-	-	-
5170 - Middle Rd - 99565	-	-	-	-	-	-	-	217,268	-	-	-	-	-	-	-	-	259,655	-	-	-
5171 - Middle Rd - 99567	-	-	-	-	-	-	218,280	-	-	-	-	-	-	-	-	260,865	-	-	-	-
5172 - Middle Rd - 99569	-	-	-	-	-	-	226,189	-	-	-	-	-	-	-	-	270,317	-	-	-	-
5173 - Middle Rd - 99571	-	-	-	-	-	-	157,278	-	-	-	-	-	-	-	-	187,961	-	-	-	-
5174 - Middle Rd - 99572	-	-	-	-	-	-	51,670	-	-	-	-	-	-	-	-	61,751	-	-	-	-
5176 - Sideroad 10/11 - 99585	-	-	-	-	-	-	18,559	-	-	-	-	-	-	-	-	22,180	-	-	-	-
5177 - Woodley Rd - 99589	-	-	-	-	-	-	218,280	-	-	-	-	-	-	-	-	260,865	-	-	-	-
5178 - Woodley Rd - 99591	-	-	-	-	-	-	95,959	-	-	-	-	-	-	-	-	114,680	-	-	-	-
5179 - Mearns Av - 99595	-	-	-	-	-	-	-	48,401	-	-	-	-	-	-	-	-	57,844	-	-	-
5180 - Mearns Av - 99597	-	-	-	-	-	-	108,613	-	-	-	-	-	-	-	-	129,802	-	-	-	-
5182 - Clemens Rd - 99602	133,899	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5183 - Lambs Rd - 99614	-	-	-	-	-	-	105,449	-	-	-	-	-	-	-	-	126,022	-	-	-	-
5184 - Lambs Rd - 99615	-	-	-	-	-	-	131,372	-	-	-	-	-	-	-	-	157,002	-	-	-	-
5186 - Bethesda Rd - 99617	-	-	-	-	-	-	127,594	-	-	-	-	-	-	-	-	152,486	-	-	-	-
5187 - Bethesda Rd - 99619	-	-	-	-	-	-	230,758	-	-	-	-	-	-	-	-	275,778	-	-	-	-
5188 - Bethesda Rd - 99621	-	-	-	-	-	-	242,569	-	-	-	-	-	-	-	-	289,892	-	-	-	-
5189 - Bethesda Rd - 99623	-	-	-	-	-	-	227,331	-	-	-	-	-	-	-	-	271,682	-	-	-	-
5190 - Bennet - 99624	-	-	-	-	-	-	1,674	-	-	-	-	-	-	-	-	2,001	-	-	-	-
5191 - Bennett Rd - 99625	-	-	-	-	-	-	13,146	-	-	-	-	-	-	-	-	15,711	-	-	-	-
5192 - Bennett Rd - 99627	-	-	-	-	382,999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5194 - Acres Rd - 99637	-	-	-	-	-	-	-	236,539	-	-	-	-	-	-	-	277,143	-	-	-	-
5195 - Acres Rd - 99639	-	-	-	-	-	-	21,652	-	-	-	-	-	-	-	-	25,876	-	-	-	-
5196 - Aked Rd - 99647	-	-	-	-	-	-	-	86,853	-	-	-	-	-	-	-	101,763	-	-	-	-
5197 - Longsault Rd - 99651	-	-	-	-	-	-	238,421	-	-	-	-	-	-	-	-	284,935	-	-	-	-
5198 - Bragg Rd - 99657	-	-	-	-	-	-	183,482	-	-	-	-	-	-	-	-	219,278	-	-	-	-
5200 - Bragg Rd - 99661	-	-	-	-	-	-	120,212	-	-	-	-	-	-	-	-	143,665	-	-	-	-
5201 - Murphy Rd - 99679	-	-	-	-	-	-	26,196	-	-	-	-	-	-	-	-	31,307	-	-	-	-
5202 - Murphy Rd - 99680	-	-	-	-	-	-	-	61,756	-	-	-	-	-	-	-	-	73,805	-	-	-
5203 - Darlington/Clarke T/L - 99683	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5204 - Darlington/Clarke T/L - 99684	-	-	-	-	-	-	-	-	123,094	-	-	-	-	-	-	-	-	147,109	-	-
5206 - Darlington/Clarke T/L - 99685	110,366	-	-	-	-	-	-	-	-	131,897	-	-	-	-	-	-	-	-	157,629	-
5208 - Darlington/Clarke T/L - 99686	-	-	-	-	-	-	-	-	18,651	-	-	-	-	-	-	-	-	22,289	-	-
5210 - Darlington/Clarke T/L - 99689	-	-	-	-	-	-	209,844	-	-	-	-	-	-	-	-	250,783	-	-	-	-

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
5211 - Darlington/Manvers T/L - 99695	-	-	-	-	-	-	310,021	-	-	-	-	-	-	-	-	370,504	-	-	-	-
5212 - Liberty St N - 99701	-	-	-	-	823,040	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5213 - Liberty St N - 99703	-	-	763,667	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5214 - Conc Rd 7 - 99705	-	-	208,213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5217 - Liberty St N - 99707	-	-	-	-	199,196	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5218 - Liberty St N - 99709	-	-	489,530	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5219 - Liberty St N - 99711	-	-	934,052	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5220 - Hillside Dr - 99801	-	-	-	118,923	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5222 - Davis Ct - 99802	-	-	-	-	-	-	60,472	-	-	-	-	-	-	-	-	-	-	-	-	-
5224 - Hillside Ct - 99803	-	-	-	-	-	-	13,146	-	-	-	-	-	-	-	-	-	-	-	-	-
5226 - Hockaday Ct - 99804	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5227 - Odlum St - 99805	-	-	-	-	94,618	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5228 - Westlake St - 99806	-	98,546	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5229 - Limmiman Ct - 99807	-	28,156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5230 - Dorset St - 99808	-	-	-	-	97,108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5231 - Bice Ct - 99809	-	-	59,831	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5232 - Eagle Ct - 99810	-	-	-	-	62,249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5233 - Potter's Ln - 99811	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5234 - Ella Mae Lane - 99813	-	-	-	-	-	-	45,934	-	-	-	-	-	-	-	-	54,895	-	-	-	-
5235 - Leslie Wearn St - 99815	-	-	-	-	-	-	35,572	-	-	-	-	-	-	-	-	42,511	-	-	-	-
5236 - Werrydale Dr - 99817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5237 - Salter Ct - 99819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5238 - Sunny Ridge Tr - 99821	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5239 - Virtue Ct - 99823	-	-	-	-	104,578	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5240 - Summitcrest Ct - 99825	-	-	-	-	-	-	48,718	-	-	-	-	-	-	-	-	-	-	-	-	-
5241 - Lorne Yeo Crt - 99826	-	-	-	-	-	-	-	57,974	-	-	-	-	-	-	-	-	-	-	-	-
5242 - Venton Ct - 99827	-	-	-	-	117,065	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5243 - Grist Mill Ct - 99829	-	-	-	-	-	-	81,196	-	-	-	-	-	-	-	-	-	-	-	-	-
5246 - Maple St - 99835	-	-	-	-	-	-	-	169,110	-	-	-	-	-	-	-	198,140	-	-	-	-
5247 - King St - 99839	43,706	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5248 - King St - 99841	-	-	-	-	-	-	-	-	108,612	-	-	-	-	-	-	-	127,257	-	-	-
5249 - Roy Carter St - 99851	-	-	27,397	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5250 - Elliot St - 99854	-	-	-	-	-	-	25,132	-	-	-	-	-	-	-	-	30,035	-	-	-	-
5251 - Mary St - 99855	-	-	-	-	-	-	13,533	-	-	-	-	-	-	-	-	16,173	-	-	-	-
5252 - Darlington St - 99857	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5253 - Darlington St - 99859	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5254 - Tanglewood Ct - 99861	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5255 - Sumac Rd - 99862	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5256 - Sumac Ct - 99863	-	-	-	41,499	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5257 - Hawke Ct - 99864	-	-	31,112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5480 - Baseline Rd - 94025	-	-	-	60,117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5666 - Nash Rd - 92042	-	-	-	-	-	-	-	165,640	-	-	-	-	-	-	-	-	-	-	-	-
5667 - Briarhill gate - 92110	-	-	-	-	-	-	-	30,170	-	-	-	-	-	-	-	-	-	-	-	-
5668 - Centerfield Dr - 92113	-	129,574	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5669 - Valleycrest Dr - 92115	-	113,114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5670 - Bellview Crt - 92117	-	-	-	-	-	-	-	46,931	-	-	-	-	-	-	-	-	-	-	-	-
5671 - Old Kingston Rd - 92119	-	-	-	36,435	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5672 - Vivian Dr - 92247	-	-	-	-	-	-	88,736	-	-	-	-	-	-	-	-	-	-	-	-	-
5673 - Billet Gate - 92249	-	-	-	-	-	-	19,719	-	-	-	-	-	-	-	-	-	-	-	-	-
5674 - Trulls Rd - 92324	-	-	-	-	-	-	-	165,640	-	-	-	-	-	-	-	-	-	-	-	-
5675 - Osbourne Rd - 92333	-	-	-	-	-	-	80,142	-	-	-	-	-	-	-	-	95,777	-	-	-	-
5676 - Given Rd - 93001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	176,745	-	-	-
5677 - Wilmot St - 93015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64,335	-	-	-
5678 - Arthur St - 93029	-	-	-	-	69,681	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5679 - Arthur St - 93030	-	-	-	-	-	-	-	100,488	-	-	-	-	-	-	-	-	-	-	-	-
5680 - Edward St - 93052	-	-	-	-	111,490	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5681 - Edward St - 93053	-	-	-	-	81,759	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5682 - Nelson St - 94119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	92,143	-	-	-
5683 - Duke St - 94153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	118,773	-	-	-
5684 - Duke St - 94155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36,763	-	-	-
5685 - Queen St - 94167	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5686 - Stevens Rd - 94185	-	-	-	-	-	-	-	37,861	-	-	-	-	-	-	-	-	45,247	-	-	-
5691 - Lambs Rd - 94604	-	-	-	-	-	-	-	51,628	-	-	-	-	-	-	-	60,490	-	-	-	-
5692 - Bons Ave - 94618	-	147,083	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5693 - Allworth Cres - 94620	-	113,114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5694 - Jennings Dr - 94622	-	-	191,282	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5695 - McCorkell St - 94624	-	-	-	-	-	80,552	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5696 - Courtney St - 94626	-	-	-	-	-	70,885	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5697 - Keeler Cres - 94628	-	-	-	111,490	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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5698 - Brough Crt - 94630	-	-	-	-	-	54,775	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5699 - Dadson Dr - 94652	-	-	-	-	-	-	42,725	-	-	-	-	-	-	-	-	-	-	-	-	-
5700 - Boswell Dr - 94654	-	-	-	-	-	128,883	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5701 - Dadson Dr - 94656	-	-	-	-	-	151,437	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5702 - Squire Fletcher Dr - 94657	-	-	112,340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5705 - Clarington Blvd - 94700	-	-	-	-	-	77,330	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5706 - Prince William Blvd - 94702	-	-	109,304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5707 - Allison St - 94874	-	-	-	-	-	-	29,579	-	-	-	-	-	-	-	-	-	-	-	-	-
5709 - Conc Rd 1 - 98027	-	-	-	-	-	-	99,193	-	-	-	-	-	-	-	-	118,544	-	-	-	-
5710 - Conc Rd 1 - 98029	-	-	-	-	-	-	99,193	-	-	-	-	-	-	-	-	118,544	-	-	-	-
5711 - Concession 4 - 98095	-	-	-	96,883	-	-	-	-	-	-	-	-	115,784	-	-	-	-	-	-	-
5712 - Concession 4 - 98097	-	-	-	79,659	-	-	-	-	-	-	-	-	95,200	-	-	-	-	-	-	-
5713 - Concession 5 - 98125	-	-	-	-	-	-	-	-	161,273	-	-	-	-	-	-	-	188,957	-	-	-
5714 - Concession 5 - 98135	-	-	-	-	-	-	162,216	-	-	-	-	-	-	-	-	193,863	-	-	-	-
5715 - Concession 8 - 98212	-	-	-	-	-	-	-	51,628	-	-	-	-	-	-	-	-	61,700	-	-	-
5716 - Charter lane - 98299	-	-	-	-	-	-	37,582	-	-	-	-	-	-	-	-	44,914	-	-	-	-
5717 - Tigh St - 98301	-	-	-	-	-	-	32,788	-	-	-	-	-	-	-	-	39,184	-	-	-	-
5718 - Best Rd - 98303	-	-	-	-	-	-	247,894	-	-	-	-	-	-	-	-	296,256	-	-	-	-
5719 - Best Rd - 98305	-	-	-	-	-	-	210,899	-	-	-	-	-	-	-	-	252,043	-	-	-	-
5720 - Stephenson Rd - 98326	-	-	-	-	-	-	-	109,548	-	-	-	-	-	-	-	-	130,920	-	-	-
5721 - Jewel Rd - 98353	-	-	-	-	-	-	-	271,047	-	-	-	-	-	-	-	-	323,926	-	-	-
5724 - Carscadden Rd - 98415	-	-	-	-	-	-	-	202,210	-	-	-	-	-	-	-	236,921	-	-	-	-
5725 - Pebblestone Rd - 99093	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5726 - Pebblestone Rd - 99097	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5727 - Concession 4 - 99105	-	-	-	-	-	-	95,959	-	-	-	-	-	-	-	-	114,680	-	-	-	-
5728 - Concession 9 - 99225	-	86,595	-	-	-	-	-	-	-	-	103,489	-	-	-	-	-	-	-	-	123,678
5729 - Tooley Rd - 99305	-	-	-	-	-	-	-	194,035	-	-	-	-	-	-	-	-	231,890	-	-	-
5730 - Langmaid Rd - 99309	211,212	-	-	-	-	-	-	-	-	252,417	-	-	-	-	-	-	-	-	301,662	-
5731 - Trulls Rd - 99327	-	-	-	-	-	-	-	-	471,904	-	-	-	-	-	-	-	-	-	-	-
5732 - Rundle Rd - 99437	-	-	-	-	-	-	70,827	-	-	-	-	-	-	-	-	84,645	-	-	-	-
5733 - Holt Rd - 99457	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5735 - Cedar Park Rd - 99549	-	-	-	-	-	-	156,557	-	-	-	-	-	-	-	-	187,100	-	-	-	-
5736 - Avery Rd - 99573	-	-	-	-	-	-	-	117,023	-	-	-	-	-	-	-	-	139,854	-	-	-
5737 - Clements Rd - 99601	136,709	-	-	-	-	-	-	-	-	163,379	-	-	-	-	-	-	-	191,425	-	-
5738 - Providence Rd - 99631	-	-	-	-	-	-	-	101,105	-	-	-	-	-	-	-	-	120,830	-	-	-
5739 - Bragg Rd - 99659	-	-	-	-	-	-	-	96,803	-	-	-	-	-	-	-	-	115,688	-	-	-
5740 - Charlesville Lane - 99831	-	-	-	-	-	-	36,152	-	-	-	-	-	-	-	-	43,204	-	-	-	-
5741 - Nelson Lane - 99833	-	-	-	-	-	-	21,266	-	-	-	-	-	-	-	-	25,414	-	-	-	-
53040 - East Beach Rd - 94006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	129,412	-	-	-
53041 - Green Rd - 94754	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	191,356	-	-	-
53042 - Concession Rd 7 - 98183	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	122,544	-	-	-
53043 - Concession Rd 7 - 98185	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	133,491	-	-	-
53044 - Concession Rd 7 - 98186	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	113,396	-	-	-
53045 - Lake Rd - 94013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	171,278	-	-	-
53046 - S. Service Rd - 94004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	569,493	-	-	-
53047 - Boundary Rd - 98243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	610,832	-	-	-
53048 - Boundary Rd - 98245	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	394,110	-	-	-
53049 - Fourth St - 94265	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	103,219	-	-	-
53050 - Meadowglade Rd - 92375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	166,349	-	-	-	-
53051 - Arnold Johnston St - 92379	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72,112	-	-	-
53052 - Cameron Ferguson St - 92381	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73,554	-	-
53053 - Hayman St - 92383	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73,933	-	-	-	-
53054 - Meadowglade Rd - 92367	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63,423	-	-	-	-	-
53055 - Worden Dr - 92369	-	-	-	-	-	-	-	-	-	-	-	-	-	-	184,832	-	-	-	-	-
53056 - Hayman St - 92371	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42,131	-	-	-	-	-
53057 - Glenabbey Dr - 92373	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	143,245	-	-	-	-
53058 - West Scugog Ln - 94312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	184,832	-	-	-	-
53059 - Piper Cres - 94318	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	129,613	-	-	-	-
53060 - Goodall Cres - 94320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	145,324	-	-	-	-
53061 - Hockley Ave - 94322	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	86,409	-	-	-	-
53062 - Courvier Cres - 94636	-	-	-	-	-	-	-	-	-	-	-	-	-	202,349	-	-	-	-	-	-
53063 - Quackenbush Street - 94640	-	-	-	-	-	-	-	-	-	-	-	-	-	76,258	-	-	-	-	-	-
53064 - William Cowles Dr - 94638	-	-	-	-	-	-	-	-	-	-	-	-	-	128,355	-	-	-	-	-	-
53065 - Eldad Dr - 94716	-	-	-	-	-	-	-	-	-	-	-	-	-	137,794	-	-	-	-	-	-
53066 - Laprade Square - 94714	-	-	-	-	-	-	-	-	-	-	-	-	-	135,151	-	-	-	-	-	-
53067 - Swindells St - 94635	-	-	-	-	-	-	-	-	-	-	-	-	-	200,839	-	-	-	-	-	-
53068 - Longworth Ave - 94713	-	-	-	-	-	-	-	-	-	-	-	-	-	226,776	-	-	-	-	-	-
53069 - George Reynolds Dr - 92218	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	235,661	-	-	-	-
53070 - Sisson Lane - 93206	-	-	-	-	-	-	-	-	-	-	-	-	-	86,829	-	-	-	-	-	-
53071 - Corporal Patterson Ln - 93208	-	-	-	-	-	-	-	-	-	-	-	-	-	89,472	-	-	-	-	-	-

Asset Management Replacement Requirements
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
53072 - Doug Walton Ln - 93210	-	-	-	-	-	-	-	-	-	-	-	-	-	89,094	-	-	-	-	-	-
53073 - Lakebreeze Dr - 93214	-	-	-	-	-	-	-	-	-	-	-	-	-	102,151	-	-	-	-	-	-
53074 - William Allin Court - 98362	-	-	-	-	-	-	-	-	-	-	-	-	70,213	-	-	-	-	-	-	-
53075 - Longworth Ave - 94736	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	112,840	-	-	-	-
53076 - Taft Pl. - 94738	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43,204	-	-	-	-
53077 - Crough St - 94739	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	74,626	-	-	-	-
53078 - Hanna Dr - 94740	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	74,626	-	-	-	-
54513 - Arthur St - 98316	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54514 - Aspen Springs Dr - 94478	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	114,721	-
54515 - Avondale Dr - 92344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	74,464	-
54516 - Avondale Dr - 92346	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	176,852	-
54517 - Baseline Rd - 94034	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99,316	-
54518 - Bethesda Rd - 99618	-	-	-	-	-	93,468	-	-	-	-	-	-	107,365	-	-	-	-	-	-	123,329
54520 - Bonnycastle Dr - 94486	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	111,696	-
54521 - Boswell Dr - 94658	-	-	-	100,281	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54522 - Bragg Rd - 99662	-	-	-	-	-	91,671	-	-	-	-	-	-	105,301	-	-	-	-	-	-	120,957
54523 - Bragg Rd - 99660	-	-	-	103,660	-	-	-	-	-	-	119,073	-	-	-	-	-	-	136,777	-	-
54524 - Brookhouse Dr - 93202	-	93,064	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54525 - Centerfield Dr - 92138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106,809	-
54526 - Conc Rd 3 - 94072	-	-	-	307,568	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54527 - Conc Rd 8 - 99710	-	-	-	-	-	-	-	-	-	-	-	-	-	263,865	-	-	-	-	-	-
54528 - Conc Rd 9 - 99216	-	-	-	-	-	30,108	-	-	-	-	-	-	34,584	-	-	-	-	-	-	39,726
54529 - Concession St - 94250	-	-	-	-	-	82,567	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54530 - Concession St - 94252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94,941	-
54531 - Concession St - 94254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	102,388	-
54532 - Concession St - 94534	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83,772	-
54533 - Decoe Crt - 92099	-	-	-	-	23,985	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54534 - Edward St - 93050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80,519	-	-	-
54535 - Edward St - 93080	-	-	-	-	-	-	-	102,072	-	-	-	-	-	-	-	-	-	-	-	-
54536 - Fenning Dr - 92364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83,326	-	-	-	-
54537 - Firwood Av - 92356	-	-	-	-	-	-	15,596	-	-	-	-	-	-	-	-	-	-	-	-	-
54538 - Green Rd - 94518	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	181,123	-	-	-	-
54539 - Green Rd - 94520	-	-	-	-	67,157	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54540 - Green Rd - 94728	-	-	-	-	-	-	-	-	-	-	-	-	139,021	-	-	-	-	-	-	-
54541 - Green Rd - 94730	-	-	-	-	-	-	-	-	-	-	-	-	86,289	-	-	-	-	-	-	-
54542 - Holt Rd - 99456	-	-	-	188,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54543 - King St E - 94516	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	121,934	-
54544 - King St W - 94510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	176,299	-	-	-	-
54545 - King St W - 94512	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83,399	-
54546 - King St W - 94514	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77,442	-
54547 - Lakeshore Rd - 98014	-	-	-	-	-	76,392	-	-	-	-	-	-	87,751	-	-	-	-	-	-	100,798
54548 - Lakeshore Rd - 98016	-	-	-	-	-	35,949	-	-	-	-	-	-	41,294	-	-	-	-	-	-	47,434
54549 - Lakeshore Rd - 98020	-	-	-	-	-	55,497	-	-	-	-	-	-	63,748	-	-	-	-	-	-	73,227
54550 - Lambs Rd - 99616	-	-	-	-	-	-	101,296	-	-	-	-	-	-	116,357	-	-	-	-	-	-
54551 - Leskard Rd - 98296	343,360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54552 - Longworth Ave - 94709	-	-	-	60,169	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54553 - Longworth Ave - 94710	-	-	-	150,422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54554 - Longworth Ave - 94712	-	-	-	90,253	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54555 - Mallory St - 92294	11,079	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54556 - Maple Grove Rd - 99486	13,228	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54557 - Mearns Ave - 94424	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	209,429	-
54558 - Mearns Ave - 94428	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	162,266	-	-	-	-
54559 - Mearns Ave - 94530	-	-	-	-	-	-	-	-	-	-	-	202,376	-	-	-	-	-	-	-	-
54560 - Mearns Ave - 94532	-	-	-	-	-	-	-	-	-	-	105,818	-	-	-	-	-	-	-	-	-
54561 - Nash Rd - 92080	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98,890	-	-	-	-	-
54562 - Nash Rd - 92082	-	-	179,001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54563 - Nash Rd - 92096	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240,776	-	-	-	-	-
54564 - Old Scugog Rd - 99544	13,838	-	-	-	-	-	-	15,896	-	-	-	-	-	-	18,259	-	-	-	-	-
54565 - Pethick St - 94706	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60,525
54566 - Pethick St - 94708	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46,141
54567 - Prestonvale Rd - 92352	-	-	-	-	-	143,907	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54568 - Prospect St - 94330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	86,871
54569 - Robert Adams Dr - 92098	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	102,388	-
54570 - Robert Adams Dr - 92154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79,118	-
54571 - Rosswell Dr - 92550	-	-	-	-	-	-	-	-	-	-	-	69,566	-	-	-	-	-	-	-	-
54572 - Rosswell Dr - 92551	-	-	-	-	-	-	-	-	-	-	-	20,258	-	-	-	-	-	-	-	-
54573 - Rudel Rd - 93048	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	134,966	-
54574 - Rundle Rd - 99438	-	-	-	139,437	-	-	-	-	-	-	160,169	-	-	-	-	-	-	183,984	-	-

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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
54575 - Scugog St - 94306	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79,751
54576 - Scugog St - 94310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95,701
54577 - Scugog St - 94564	-	-	71,194	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54578 - Simpson Ave - 94368	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	121,004	-
54580 - Stapleton Rd - 98420	-	-	-	-	-	71,269	-	-	-	-	-	-	81,866	-	-	-	-	-	-	94,038
54581 - Stapleton Rd - 98422	-	-	-	-	-	186,397	-	-	-	-	-	-	214,112	-	-	-	-	-	-	245,947
54582 - Trulls Rd - 92342	-	-	-	-	-	-	113,759	-	-	-	-	-	-	-	-	-	-	-	-	-
54583 - Trulls Rd - 92343	-	-	-	-	-	-	88,071	-	-	-	-	-	-	-	-	-	-	-	-	-
54584 - Waverly Rd - 94522	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43,515	-
54585 - West Side Dr - 94642	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99,688
54586 - West Side Dr - 94644	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42,724
54587 - WestTownline Rd - 92272	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95,779	-
Reallocation of Peak Capital Years	2,495,559	2,495,559	2,495,559	2,495,559	2,495,559	2,495,559	(19,084,733)	2,726,390	2,726,390	2,726,390	2,726,390	2,726,390	2,726,390	2,726,390		(21,215,265)	3,030,752	3,030,752	3,030,752	
Guiderails																				
5765 - GR-95009A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$5,816	
5771 - GR-99061-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$12,463	
5772 - GR-99061-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$11,260	
5773 - GR-99051-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$27,750	
5774 - GR-99055-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$14,243	
5775 - GR-99055-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$12,712	
5776 - GR-99057-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$17,691	
5777 - GR-99057-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$15,299	
5778 - GR-98053-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$13,392	
5779 - GR-98053-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$11,963	
5780 - GR-98055-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$10,464	
5781 - GR-98055-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$9,686	
5782 - GR-92324A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$12,539	
5783 - GR-93131A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$832	
5784 - GR-98053A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,532	
5785 - GR-94105A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$13,658	
5795 - GR-94577A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$8,554	
5796 - GR-94577A-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$6,429	
5797 - GR-94577A-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$13,120	
5798 - GR-94581A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$4,789	
5799 - GR-94581A-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$6,102	
5800 - GR-98551-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,421	
5801 - GR-98551-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$11,257	
5802 - GR-98551-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$10,105	
5803 - GR-94577A-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$1,986	
5811 - GR-98343A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$15,046	
5812 - GR-98343A-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$14,575	
5813 - GR-98343B-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$6,025	
5819 - GR-98504-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,975	
5820 - GR-98504-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$5,438	
5821 - GR-99518-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,810	
5822 - GR-99518-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,874	
5823 - GR-98261A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,346	
5824 - GR-98503-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$2,153	
5825 - GR-99241A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,163	
5826 - GR-99241A-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,111	
5827 - GR-99514-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$8,869	
5828 - GR-99514-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$9,024	
5829 - GR-99573A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$9,413	
5838 - GR-91011A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$2,632	
5839 - GR-91011A-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,596	
5851 - GR-99253A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$9,108	
5852 - GR-99545A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$6,935	
5853 - GR-99545A-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$2,494	
5858 - GR-94004-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$8,377	
5874 - GR-99097-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$17,732	
5875 - GR-99097-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$17,630	
5876 - GR-99329A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,528	
5877 - GR-94011-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5878 - GR-94011-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5879 - GR-94011A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5880 - GR-98077-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5881 - GR-98057-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5882 - GR-98077-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5883 - GR-94005A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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2018 to 2037
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
5884 - GR-99529A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$2,439	
5885 - GR-99529A-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$2,439	
5886 - GR-99687A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5887 - GR-93133-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$51,673	
5888 - GR-98009-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,996	
5889 - GR-98009-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$4,152	
5890 - GR-93007-1	$6,484	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5891 - GR-93007-2	$7,058	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5892 - GR-93133A-1	$5,325	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5893 - GR-99591A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,470	
5894 - GR-99591A-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$10,863	
5895 - GR-98235A-1	-	$10,580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5896 - GR-98235A-2	-	$10,101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5897 - GR-98077-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,295	
5898 - GR-98077-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$9,294	
5903 - GR-99525-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,114	
5904 - GR-99525-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$9,673	
5905 - GR-95063A-1	-	-	-	$16,270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5906 - GR-95063B-1	-	-	-	$7,530	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5907 - GR-99201A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5908 - GR-99201A-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5911 - GR-98293A-1	$9,961	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5912 - GR-99117-1	$7,557	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5913 - GR-99117-2	$8,940	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5914 - GR-99125-1	-	-	-	-	-	$17,428	-	-	-	-	-	-	-	-	-	-	-	-	-	
5915 - GR-99125-2	-	-	-	-	-	$30,529	-	-	-	-	-	-	-	-	-	-	-	-	-	
5916 - GR-99129-1	-	-	-	-	-	$5,470	-	-	-	-	-	-	-	-	-	-	-	-	-	
5917 - GR-99129-2	-	-	-	-	-	$12,401	-	-	-	-	-	-	-	-	-	-	-	-	-	
5918 - GR-99029A-1	-	$5,765	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5919 - GR-99029B-1	-	$4,940	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5920 - GR-99069A-1	-	$18,515	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5921 - GR-99451A-1	-	$3,173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5922 - GR-99451A-2	-	$6,962	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5923 - GR-99451A-3	-	$8,732	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5924 - GR-98065A-1	-	-	-	-	-	-	$7,801	-	-	-	-	-	-	-	-	-	-	-	-	
5925 - GR-98065A-2	-	-	-	-	-	-	$6,783	-	-	-	-	-	-	-	-	-	-	-	-	
5926 - GR-98065A-3	-	-	-	-	-	-	$6,830	-	-	-	-	-	-	-	-	-	-	-	-	
5927 - GR-99029-1	-	-	-	-	-	-	$10,216	-	-	-	-	-	-	-	-	-	-	-	-	
5928 - GR-99029-2	-	-	-	-	-	-	$9,844	-	-	-	-	-	-	-	-	-	-	-	-	
5929 - GR-99029-3	-	-	-	-	-	-	$10,441	-	-	-	-	-	-	-	-	-	-	-	-	
5930 - GR-99029-4	-	-	-	-	-	-	$10,251	-	-	-	-	-	-	-	-	-	-	-	-	
5931 - GR-99031-1	-	-	-	-	-	-	$10,017	-	-	-	-	-	-	-	-	-	-	-	-	
5932 - GR-99031-4	-	-	-	-	-	-	$10,094	-	-	-	-	-	-	-	-	-	-	-	-	
5933 - GR-99033-1	-	-	-	-	-	-	$9,960	-	-	-	-	-	-	-	-	-	-	-	-	
5934 - GR-99033-2	-	-	-	-	-	-	$3,499	-	-	-	-	-	-	-	-	-	-	-	-	
5935 - GR-99033-3	-	-	-	-	-	-	$10,228	-	-	-	-	-	-	-	-	-	-	-	-	
5936 - GR-99033-4	-	-	-	-	-	-	$12,606	-	-	-	-	-	-	-	-	-	-	-	-	
5937 - GR-99099-1	-	-	-	-	-	-	$10,133	-	-	-	-	-	-	-	-	-	-	-	-	
5938 - GR-99099-2	-	-	-	-	-	-	$9,750	-	-	-	-	-	-	-	-	-	-	-	-	
5939 - GR-99099-3	-	-	-	-	-	-	$9,778	-	-	-	-	-	-	-	-	-	-	-	-	
5940 - GR-99099-4	-	-	-	-	-	-	$10,198	-	-	-	-	-	-	-	-	-	-	-	-	
5941 - GR-94019-1	-	-	-	-	-	-	$10,875	-	-	-	-	-	-	-	-	-	-	-	-	
5942 - GR-94019-2	-	-	-	-	-	-	$10,890	-	-	-	-	-	-	-	-	-	-	-	-	
5943 - GR-94019-3	-	-	-	-	-	-	$11,220	-	-	-	-	-	-	-	-	-	-	-	-	
5944 - GR-94019-4	-	-	-	-	-	-	$11,015	-	-	-	-	-	-	-	-	-	-	-	-	
5945 - GR-99031-2	-	-	-	-	-	-	$10,064	-	-	-	-	-	-	-	-	-	-	-	-	
5946 - GR-99031-3	-	-	-	-	-	-	$10,127	-	-	-	-	-	-	-	-	-	-	-	-	
5947 - GR-98345A-1	-	-	$15,364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5948 - GR-98345A-2	-	-	$12,742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5949 - GR-98345B-1	-	-	$10,495	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5950 - GR-98345C-1	-	-	$4,565	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5951 - GR-98345C-2	-	-	$6,808	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5952 - GR-99287A-1	-	-	$5,381	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5953 - GR-99287A-2	-	-	$13,509	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5954 - GR-99504-1	-	-	$6,934	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5955 - GR-99504-2	-	-	$9,485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5956 - GR-94009-1	-	-	-	-	-	-	-	$11,076	-	-	-	-	-	-	-	-	-	-	-	
5957 - GR-94009-2	-	-	-	-	-	-	-	$3,863	-	-	-	-	-	-	-	-	-	-	-	
5958 - GR-94009-3	-	-	-	-	-	-	-	$4,894	-	-	-	-	-	-	-	-	-	-	-	

Asset Management Replacement Requirements
2018 to 2037
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
5959 - GR-94009-4	-	-	-	-	-	-	-	$2,722	-	-	-	-	-	-	-	-	-	-	-	
5960 - GR-94017-1	-	-	-	-	-	-	-	$6,853	-	-	-	-	-	-	-	-	-	-	-	
5961 - GR-94017-2	-	-	-	-	-	-	-	$7,250	-	-	-	-	-	-	-	-	-	-	-	
5962 - GR-94017-4	-	-	-	-	-	-	-	$5,922	-	-	-	-	-	-	-	-	-	-	-	
5963 - GR-94017-6	-	-	-	-	-	-	-	$3,844	-	-	-	-	-	-	-	-	-	-	-	
5964 - GR-94017-7	-	-	-	-	-	-	-	$5,091	-	-	-	-	-	-	-	-	-	-	-	
5965 - GR-98035-1	-	-	-	-	-	-	-	$11,650	-	-	-	-	-	-	-	-	-	-	-	
5966 - GR-98035-2	-	-	-	-	-	-	-	$11,467	-	-	-	-	-	-	-	-	-	-	-	
5967 - GR-98035-3	-	-	-	-	-	-	-	$11,470	-	-	-	-	-	-	-	-	-	-	-	
5968 - GR-98035-4	-	-	-	-	-	-	-	$11,712	-	-	-	-	-	-	-	-	-	-	-	
5969 - GR-98519-1	-	-	-	-	-	-	-	$7,004	-	-	-	-	-	-	-	-	-	-	-	
5970 - GR-98519-2	-	-	-	-	-	-	-	$7,881	-	-	-	-	-	-	-	-	-	-	-	
5971 - GR-94007-1	-	-	-	-	-	-	-	$3,553	-	-	-	-	-	-	-	-	-	-	-	
5972 - GR-94007-2	-	-	-	-	-	-	-	$4,648	-	-	-	-	-	-	-	-	-	-	-	
5973 - GR-94007-3	-	-	-	-	-	-	-	$2,612	-	-	-	-	-	-	-	-	-	-	-	
5974 - GR-94007-4	-	-	-	-	-	-	-	$4,841	-	-	-	-	-	-	-	-	-	-	-	
5975 - GR-99862A-1	-	-	-	$14,126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5976 - GR-99862A-2	-	-	-	$12,348	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5977 - GR-98502-1	-	-	-	$17,330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5978 - GR-99027-1	-	-	-	$25,758	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5979 - GR-99027-2	-	-	-	$29,516	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5980 - GR-98157A-1	-	-	-	-	-	-	-	-	$18,224	-	-	-	-	-	-	-	-	-	-	
5981 - GR-94024-4	-	-	-	-	$479	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5982 - GR-94614-1	-	-	-	-	$4,961	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5983 - GR-94614-2	-	-	-	-	$3,008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5984 - GR-94013-2	-	-	-	-	-	-	-	-	-	$8,693	-	-	-	-	-	-	-	-	-	
5985 - GR-94013-4	-	-	-	-	-	-	-	-	-	$6,520	-	-	-	-	-	-	-	-	-	
5986 - GR-94013-5	-	-	-	-	-	-	-	-	-	$10,546	-	-	-	-	-	-	-	-	-	
5987 - GR-94024-1	-	-	-	-	-	-	-	-	-	$5,098	-	-	-	-	-	-	-	-	-	
5988 - GR-94024-2	-	-	-	-	-	-	-	-	-	$4,369	-	-	-	-	-	-	-	-	-	
5989 - GR-94024-3	-	-	-	-	-	-	-	-	-	$5,044	-	-	-	-	-	-	-	-	-	
5990 - GR-94024-5	-	-	-	-	-	-	-	-	-	$5,098	-	-	-	-	-	-	-	-	-	
5991 - GR-94013-1	-	-	-	-	-	-	-	-	-	$4,270	-	-	-	-	-	-	-	-	-	
5992 - GR-98319A-1	-	-	-	-	-	$10,533	-	-	-	-	-	-	-	-	-	-	-	-	-	
5993 - GR-99025-2	-	-	-	-	-	$8,862	-	-	-	-	-	-	-	-	-	-	-	-	-	
5994 - GR-95087A-1	-	-	-	-	-	$1,716	-	-	-	-	-	-	-	-	-	-	-	-	-	
5995 - GR-99121-1	-	-	-	-	-	$10,351	-	-	-	-	-	-	-	-	-	-	-	-	-	
5996 - GR-99121-2	-	-	-	-	-	$9,896	-	-	-	-	-	-	-	-	-	-	-	-	-	
5997 - GR-94215A-1	-	-	-	-	-	-	-	-	-	-	$2,745	-	-	-	-	-	-	-	-	
5998 - GR-95502-1	-	-	-	-	-	-	-	-	-	-	$5,562	-	-	-	-	-	-	-	-	
5999 - GR-95502-2	-	-	-	-	-	-	-	-	-	-	$4,298	-	-	-	-	-	-	-	-	
6000 - GR-95502-3	-	-	-	-	-	-	-	-	-	-	$2,236	-	-	-	-	-	-	-	-	
6001 - GR-99025-3	-	-	-	-	-	-	-	-	-	-	$7,675	-	-	-	-	-	-	-	-	
6002 - GR-99025-4	-	-	-	-	-	-	-	-	-	-	$4,401	-	-	-	-	-	-	-	-	
6003 - GR-99025-5	-	-	-	-	-	-	-	-	-	-	$3,584	-	-	-	-	-	-	-	-	
6004 - GR-99005A-1	-	-	-	-	-	-	-	-	-	-	$21,258	-	-	-	-	-	-	-	-	
6005 - GR-99025-1	-	-	-	-	-	-	-	-	-	-	$3,168	-	-	-	-	-	-	-	-	
6006 - GR-99709A-1	-	-	-	-	-	-	$10,802	-	-	-	-	-	-	-	-	-	-	-	-	
6007 - GR-99711A-1	-	-	-	-	-	-	$14,968	-	-	-	-	-	-	-	-	-	-	-	-	
6008 - GR-99711A-2	-	-	-	-	-	-	$38,868	-	-	-	-	-	-	-	-	-	-	-	-	
6009 - GR-98003-3	-	-	-	-	-	-	$3,134	-	-	-	-	-	-	-	-	-	-	-	-	
6010 - GR-98003-4	-	-	-	-	-	-	$3,287	-	-	-	-	-	-	-	-	-	-	-	-	
6011 - GR-98003-5	-	-	-	-	-	-	$7,220	-	-	-	-	-	-	-	-	-	-	-	-	
6012 - GR-98003-6	-	-	-	-	-	-	$7,208	-	-	-	-	-	-	-	-	-	-	-	-	
6013 - GR-98007-2	-	-	-	-	-	-	$7,049	-	-	-	-	-	-	-	-	-	-	-	-	
6014 - GR-98007-3	-	-	-	-	-	-	$6,157	-	-	-	-	-	-	-	-	-	-	-	-	
6015 - GR-98007-4	-	-	-	-	-	-	$4,721	-	-	-	-	-	-	-	-	-	-	-	-	
6016 - GR-98007-5	-	-	-	-	-	-	$6,088	-	-	-	-	-	-	-	-	-	-	-	-	
6017 - GR-99689A-1	-	-	-	-	-	-	$10,411	-	-	-	-	-	-	-	-	-	-	-	-	
6018 - GR-98007-1	-	-	-	-	-	-	-	-	-	-	-	$6,713	-	-	-	-	-	-	-	
6019 - GR-98007-6	-	-	-	-	-	-	-	-	-	-	-	$4,420	-	-	-	-	-	-	-	
6020 - GR-98007-7	-	-	-	-	-	-	-	-	-	-	-	$2,238	-	-	-	-	-	-	-	
6021 - GR-98007-8	-	-	-	-	-	-	-	-	-	-	-	$4,500	-	-	-	-	-	-	-	
6022 - GR-98017-1	-	-	-	-	-	-	-	-	-	-	-	$4,502	-	-	-	-	-	-	-	
6023 - GR-98017-2	-	-	-	-	-	-	-	-	-	-	-	$4,473	-	-	-	-	-	-	-	
6024 - GR-98017-3	-	-	-	-	-	-	-	-	-	-	-	$4,905	-	-	-	-	-	-	-	
6025 - GR-98019-1	-	-	-	-	-	-	-	-	-	-	-	$5,203	-	-	-	-	-	-	-	

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2018 to 2037
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
6026 - GR-98019-2	-	-	-	-	-	-	-	-	-	-	-	$5,428	-	-	-	-	-	-	-	
6027 - GR-98019-3	-	-	-	-	-	-	-	-	-	-	-	$4,542	-	-	-	-	-	-	-	
6028 - GR-98019-4	-	-	-	-	-	-	-	-	-	-	-	$4,789	-	-	-	-	-	-	-	
6029 - GR-99043-1	-	-	-	-	-	-	-	-	-	-	-	$13,292	-	-	-	-	-	-	-	
6030 - GR-99043-2	-	-	-	-	-	-	-	-	-	-	-	$13,812	-	-	-	-	-	-	-	
6031 - GR-99043-3	-	-	-	-	-	-	-	-	-	-	-	$13,835	-	-	-	-	-	-	-	
6032 - GR-99043-4	-	-	-	-	-	-	-	-	-	-	-	$12,956	-	-	-	-	-	-	-	
6033 - GR-99619A-1	-	-	-	-	-	-	-	-	-	-	-	$9,154	-	-	-	-	-	-	-	
6034 - GR-98025-1	-	-	-	-	-	-	-	-	-	-	-	$12,529	-	-	-	-	-	-	-	
6035 - GR-98025-2	-	-	-	-	-	-	-	-	-	-	-	$12,815	-	-	-	-	-	-	-	
6036 - GR-98025-3	-	-	-	-	-	-	-	-	-	-	-	$9,564	-	-	-	-	-	-	-	
6037 - GR-98025-4	-	-	-	-	-	-	-	-	-	-	-	$12,721	-	-	-	-	-	-	-	
6038 - GR-99012-1	-	-	-	-	-	-	-	$4,773	-	-	-	-	-	-	-	-	-	-	-	
6039 - GR-99012-2	-	-	-	-	-	-	-	$3,310	-	-	-	-	-	-	-	-	-	-	-	
6040 - GR-99037-5	-	-	-	-	-	-	-	$32,983	-	-	-	-	-	-	-	-	-	-	-	
6041 - GR-99037-6	-	-	-	-	-	-	-	$32,629	-	-	-	-	-	-	-	-	-	-	-	
6042 - GR-99037-7	-	-	-	-	-	-	-	$9,178	-	-	-	-	-	-	-	-	-	-	-	
6043 - GR-99037-8	-	-	-	-	-	-	-	$8,865	-	-	-	-	-	-	-	-	-	-	-	
6044 - GR-93504-1	-	-	-	-	-	-	-	$4,124	-	-	-	-	-	-	-	-	-	-	-	
6045 - GR-94365A-1	-	-	-	-	-	-	-	$4,143	-	-	-	-	-	-	-	-	-	-	-	
6046 - GR-96003-1	-	-	-	-	-	-	-	$23,472	-	-	-	-	-	-	-	-	-	-	-	
6047 - GR-99145A-1	-	-	-	-	-	-	-	$19,104	-	-	-	-	-	-	-	-	-	-	-	
6048 - GR-99145A-2	-	-	-	-	-	-	-	$17,762	-	-	-	-	-	-	-	-	-	-	-	
6049 - GR-93501-1	-	-	-	-	-	-	-	-	-	-	-	-	$19,949	-	-	-	-	-	-	
6050 - GR-93501-2	-	-	-	-	-	-	-	-	-	-	-	-	$15,812	-	-	-	-	-	-	
6051 - GR-93502-1	-	-	-	-	-	-	-	-	-	-	-	-	$9,757	-	-	-	-	-	-	
6052 - GR-93502-2	-	-	-	-	-	-	-	-	-	-	-	-	$2,126	-	-	-	-	-	-	
6053 - GR-93504-2	-	-	-	-	-	-	-	-	-	-	-	-	$4,187	-	-	-	-	-	-	
6054 - GR-93505-1	-	-	-	-	-	-	-	-	-	-	-	-	$21,209	-	-	-	-	-	-	
6055 - GR-93505-2	-	-	-	-	-	-	-	-	-	-	-	-	$19,866	-	-	-	-	-	-	
6056 - GR-94103A-1	-	-	-	-	-	-	-	-	-	-	-	-	$26,184	-	-	-	-	-	-	
6057 - GR-94364A-1	-	-	-	-	-	-	-	-	-	-	-	-	$245	-	-	-	-	-	-	
6058 - GR-94365A-2	-	-	-	-	-	-	-	-	-	-	-	-	$13,175	-	-	-	-	-	-	
6059 - GR-96003-2	-	-	-	-	-	-	-	-	-	-	-	-	$7,961	-	-	-	-	-	-	
6060 - GR-99013-1	-	-	-	-	-	-	-	-	-	-	-	-	$4,093	-	-	-	-	-	-	
6061 - GR-99013-2	-	-	-	-	-	-	-	-	-	-	-	-	$4,187	-	-	-	-	-	-	
6062 - GR-99013-3	-	-	-	-	-	-	-	-	-	-	-	-	$4,123	-	-	-	-	-	-	
6063 - GR-99013-4	-	-	-	-	-	-	-	-	-	-	-	-	$4,444	-	-	-	-	-	-	
6064 - GR-99023-1	-	-	-	-	-	-	-	-	-	-	-	-	$12,581	-	-	-	-	-	-	
6065 - GR-99023-2	-	-	-	-	-	-	-	-	-	-	-	-	$12,568	-	-	-	-	-	-	
6066 - GR-99023-3	-	-	-	-	-	-	-	-	-	-	-	-	$9,054	-	-	-	-	-	-	
6067 - GR-99023-4	-	-	-	-	-	-	-	-	-	-	-	-	$9,213	-	-	-	-	-	-	
6068 - GR-99037-1	-	-	-	-	-	-	-	-	-	-	-	-	$11,348	-	-	-	-	-	-	
6069 - GR-99037-2	-	-	-	-	-	-	-	-	-	-	-	-	$11,203	-	-	-	-	-	-	
6070 - GR-99037-3	-	-	-	-	-	-	-	-	-	-	-	-	$11,386	-	-	-	-	-	-	
6071 - GR-99037-4	-	-	-	-	-	-	-	-	-	-	-	-	$11,237	-	-	-	-	-	-	
6072 - GR-99705A-1	-	-	-	-	-	-	-	-	$19,596	-	-	-	-	-	-	-	-	-	-	
6073 - GR-98181A-1	-	-	-	-	-	-	-	-	$4,788	-	-	-	-	-	-	-	-	-	-	
6074 - GR-95005-1	-	-	-	-	-	-	-	-	-	-	-	-	-	$6,209	-	-	-	-	-	
6075 - GR-95005-2	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,491	-	-	-	-	-	
6076 - GR-99109A-1	-	-	-	-	-	-	-	-	-	$6,088	-	-	-	-	-	-	-	-	-	
6077 - GR-99109A-2	-	-	-	-	-	-	-	-	-	$5,493	-	-	-	-	-	-	-	-	-	
6078 - GR-98093-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$22,401	-	-	-	-	
6079 - GR-98093-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$19,598	-	-	-	-	
6080 - GR-98095-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$19,507	-	-	-	-	
6081 - GR-98095-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$35,469	-	-	-	-	
6082 - GR-98187A-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$47,806	-	-	-	-	
6083 - GR-98187A-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$36,586	-	-	-	-	
6084 - GR-98544-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$13,618	-	-	-	-	
6085 - GR-98544-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$13,618	-	-	-	-	
6086 - GR-99035-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,073	-	-	-	-	
6087 - GR-99035-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,073	-	-	-	-	
6088 - GR-99041-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$8,520	-	-	-	-	
6089 - GR-99041-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$8,822	-	-	-	-	
6090 - GR-99091-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,073	-	-	-	-	
6091 - GR-99091-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,073	-	-	-	-	
6092 - GR-99093-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,073	-	-	-	-	
6093 - GR-99093-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,073	-	-	-	-	
6094 - GR-99095-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,073	-	-	-	-	
6095 - GR-99095-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$16,729	-	-	-	-	

Asset Management Replacement Requirements
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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
6096 - GR-99103-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$13,618	-	-	-	-	
6097 - GR-99135A-1	-	-	-	-	-	-	-	-	-	-	$17,787	-	-	-	-	-	-	-	-	
6098 - GR-99135A-2	-	-	-	-	-	-	-	-	-	-	$11,872	-	-	-	-	-	-	-	-	
6099 - GR-99203A-1	-	-	-	-	-	-	-	-	-	-	$14,037	-	-	-	-	-	-	-	-	
6100 - GR-99203A-2	-	-	-	-	-	-	-	-	-	-	$15,590	-	-	-	-	-	-	-	-	
6101 - GR-99229A-2	-	-	-	-	-	-	-	-	-	-	$5,647	-	-	-	-	-	-	-	-	
6102 - GR-99229B-1	-	-	-	-	-	-	-	-	-	-	$12,950	-	-	-	-	-	-	-	-	
6103 - GR-99229B-2	-	-	-	-	-	-	-	-	-	-	$11,022	-	-	-	-	-	-	-	-	
6104 - GR-99229B-3	-	-	-	-	-	-	-	-	-	-	$7,920	-	-	-	-	-	-	-	-	
6105 - GR-94006-1	-	-	-	-	-	-	-	-	-	-	$879	-	-	-	-	-	-	-	-	
6106 - GR-98145A-1	-	-	-	-	-	-	-	-	-	-	$14,725	-	-	-	-	-	-	-	-	
6107 - GR-98145A-2	-	-	-	-	-	-	-	-	-	-	$15,964	-	-	-	-	-	-	-	-	
6108 - GR-99103-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$13,890	-	-	-	
6109 - GR-99105-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$13,890	-	-	-	
6110 - GR-99105-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$13,890	-	-	-	
6111 - GR-99107-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$13,890	-	-	-	
6112 - GR-99107-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$13,890	-	-	-	
6113 - GR-99109-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$26,983	-	-	-	
6114 - GR-99109-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$26,983	-	-	-	
6115 - GR-99155-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,434	-	-	-	
6116 - GR-99155-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,434	-	-	-	
6117 - GR-99157-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,434	-	-	-	
6118 - GR-99157-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,434	-	-	-	
6119 - GR-99195B-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$43,402	-	-	-	
6120 - GR-99195B-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$40,722	-	-	-	
6121 - GR-99531-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$18,319	-	-	-	
6122 - GR-99531-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$24,025	-	-	-	
6123 - GR-99533-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$30,864	-	-	-	
6124 - GR-99533-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$35,454	-	-	-	
6125 - GR-93117A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$4,233	-	-	-	
6126 - GR-94184A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$5,006	-	-	-	
6127 - GR-94088A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$30,089	-	-	-	
6128 - GR-98045-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$10,952	-	-	
6129 - GR-98045-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$4,513	-	-	
6130 - GR-98045-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$10,980	-	-	
6131 - GR-98045-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$11,795	-	-	
6132 - GR-98045-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$11,795	-	-	
6133 - GR-98045-6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$11,795	-	-	
6134 - GR-98045-7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$11,795	-	-	
6135 - GR-98047-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$5,388	-	-	
6136 - GR-98047-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$3,566	-	-	
6137 - GR-98047-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$4,218	-	-	
6138 - GR-98047A-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$7,378	-	-	
6139 - GR-98057-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$21,081	-	-	
6140 - GR-98057-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$23,830	-	-	
6141 - GR-99085-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$17,672	-	-	
6142 - GR-99085-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$17,625	-	-	
6143 - GR-99229A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$5,529	-	-	
6144 - GR-98187A-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$17,919	-	
6145 - GR-98187A-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$15,123	-	
6146 - GR-98187B-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$5,053	-	
6147 - GR-99161A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$17,980	-	
6148 - GR-99161A-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$16,841	-	
6149 - GR-99161A-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$31,278	-	
6150 - GR-99161A-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$31,278	-	
6151 - GR-99195A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$25,382	-	
6152 - GR-99195A-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$21,275	-	
6153 - GR-99195A-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$29,747	-	
6154 - GR-99195A-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$35,396	-	
6155 - GR-99533-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$20,850	-	
6156 - GR-99533-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$30,146	-	
6157 - GR-94003-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$13,589	-	
6158 - GR-94003-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$11,333	-	
6159 - GR-94003-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$13,164	-	
6160 - GR-94003-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$11,333	-	
6161 - GR-98091-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$12,756	-	
6162 - GR-98091-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$13,550	-	
6163 - GR-98091-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$13,722	-	

Asset Management Replacement Requirements
2018 to 2037
Appendix A-2

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
6164 - GR-98091-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$13,970	-	
6165 - GR-99175-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$17,152	
6166 - GR-99175-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$17,152	
6167 - GR-99079-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$19,824	
6168 - GR-99079-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$19,759	
6169 - GR-99081-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$19,759	
6170 - GR-99081-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$19,759	
6171 - GR-99173-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$27,524	
6172 - GR-99173-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$21,638	
53079 - GR-95001-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$15,247	-	
53080 - GR-95001-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$10,492	-	
53092 - GR-98534-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$41,961	-	
6187 - GR-94074A-1																				$0
6176 - GR-94017-5																				$0
6186 - GR-99525A-2																				$0
6177 - GR-98514-1																				$0
6178 - GR-98514-2																				$0
6180 - GR-99059-1																				$0
6174 - GR-94001A-1																				$0
6185 - GR-99525A-1																				$0
6175 - GR-94017-3																				$0
6181 - GR-99059-2																				$0
5912 - GR-99117-1																				$0
6188 - GR-94074B-1																				$0
5913 - GR-99117-2																				$0
5911 - GR-98293A-1																				$0
6183 - GR-99063-2																				$0
6182 - GR-99063-1																				$0
6184 - GR-99069A-2																				$0
6179 - GR-99051-2																				$0
6191 - GR-98182-1																				$0
6189 - GR-92020-1																				$0
6190 - GR-92020-1																				$0
6194 - GR-99027-3																				$0
6195 - GR-99027-4																				$0
6192 - GR-99030-1																				$0
6193 - GR-99030-2																				$0
5908 - GR-99201A-2																				$3,133
5907 - GR-99201A-1																				$7,608
6173 - GR-92361A-1																				$23,502
TOTAL ROADS & ROADSIDE	**$11,196,784**	**$13,642,470**	**$13,315,954**	**$11,335,381**	**$16,627,898**	**$15,939,940**	**$19,427,266**	**$14,784,913**	**$7,246,828**	**$3,560,267**	**$3,969,915**	**$3,524,414**	**$4,412,480**	**$5,623,025**	**$1,266,004**	**$21,644,531**	**$12,795,342**	**$4,811,829**	**$6,625,275**	**$2,013,498**
Storm Sewers																				
Conduit	-	-	$4,040	-	$43,603	$15,699	-	-	$41,958	$146,734	$45,790	-	-	-	$2,475	-	$54,586	-	$461,873	$27,702
Structures	-	-	-	-	-	-	-	-	-	-	$369,640	-	-	-	-	-	-	-	-	
TOTAL STORM SEWERS	**$0**	**$0**	**$4,040**	**$0**	**$43,603**	**$15,699**	**$0**	**$0**	**$41,958**	**$146,734**	**$415,430**	**$0**	**$0**	**$0**	**$2,475**	**$0**	**$54,586**	**$0**	**$461,873**	**$27,702**
Total	$18,731,077	$20,660,246	$18,449,317	$15,772,943	$23,393,997	$24,122,644	$28,259,873	$22,154,610	$19,744,491	$12,137,639	$12,665,451	$15,810,125	$19,481,675	$16,148,828	$6,736,329	$39,367,394	$22,221,608	$19,157,034	$24,465,875	$12,188,936