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Road Needs Study 2023

ROAD INVENTORY & ASSESSMENT

Township of Cramahe

File 323892 | February 2, 2024

Document Control

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Date: **February 2, 2024**		

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Issue	Date	Description
1	February 2, 2024	Final Report

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1 Introduction

1.1 STUDY PURPOSE

Tatham Engineering Limited was retained by the Township of Cramahe to undertake an updated road needs study for all municipally maintained Township roads, the purpose of which is to:

- inventory and evaluate the Township's road system;
- identify the need for rehabilitation or reconstruction improvements and associated costs; and
- establish a simple mechanism to determine the annual works program.

This study builds on the previous work documented in the *Road Needs Study Report 2017*[1], and considers changes to the Township's road system that have occurred since (improvements to existing roads, construction of new roads, assumption of new roads, etc.).

All completed inventories and associated databases have been compiled in electronic form (Microsoft Excel) to enable quick and ready retrieval of the road data. All of the data collected, and subsequent analyses and assessments are provided in the electronic database.

1.2 REPORT STRUCTURE

The *Road Needs Study 2023* report is structured as follows:

- Chapter 2 reviews the road inventory procedures employed;
- Chapter 3 presents existing and future traffic volumes;
- Chapter 4 summarizes the key existing conditions;
- Chapter 5 identifies the road deficiencies;
- Chapter 6 addresses the road network needs and improvements;
- Chapter 7 establishes the road network priorities and recommendations;
- Chapter 8 considers alternative improvement strategies and associated cost savings; and
- Chapter 9 provides a summary to the report.

[1] *Road Needs Study Report 2017.* D.M. Wills Associates Limited, November 2017.

2 Road Inventory

2.1 ROAD NETWORK

All roads within the Township limits were inventoried with the exception of the following:

- private roads;
- county roads; and
- provincial highways.

In total, 340 road sections were identified (extending from intersection to intersection) through the Township's GIS platform, accounting for 225.3 kilometres of roads within the Township limits (measured along the road centreline).

2.2 INVENTORY PROCEDURE

2.2.1 Inventory Manuals & Guidelines

To ensure compliance with the appropriate Ministry of Transportation of Ontario (MTO) and Ontario Good Roads Association (OGRA) guidelines, the inventories reflect procedures as outlined in the following manuals:

- *Pavemen*t *Condition Index (PCI) for Flexible Pavement*; Ministry of Transportation of Ontario (August 1986);
- *Manual for Condition Rating of Surface Treated Pavements – Distress Manifestations SP-021*, Ministry of Transportation (August 1989);
- *Flexible Pavement Condition Rating – Guidelines for Municipalities SP-022*, Ministry of Transportation (August 1989);
- *Manual for Condition Rating of Flexible Pavements – Distress Manifestations SP-024*, Ministry of Transportation (August 1989);
- *Manual for Condition Rating of Gravel Surface Roads – Distress Manifestations SP-025*, Ministry of Transportation (August 1989);
- In*ventory Manual for Municipal Roads*; Ministry of Transportation of Ontario (February 1991); and
- *Measuring the Condition of Municipal Roads*, Ontario Good Roads Association, (undated).

Where necessary, the above guidelines were modified to reflect engineering standards and practices employed by the Township.

2.2.2 Inventory & Appraisal Form

The road inventories were completed using a combined field inventory and appraisal form developed from procedures set forth in the previously noted inventory manuals and guidelines. For each road section, the following key elements were determined, largely from field inspection and review, and information otherwise contained within the Township's asset management database or the GIS database:

- identification (road name, starting point and end point);
- section identification number (as per the Township's asset management database);
- section length (as per the Township's GIS database);
- cross-section elements (number of lanes, overall platform width, surface type and width, shoulder type and width, drainage conditions, speed limit, and presence of sidewalks and curbs);
- geometric deficiencies (substandard horizontal and vertical curves);
- terrain conditions (rocky, flat, rolling, etc.);
- environment (rural, semi-urban or urban);
- ride comfort rating; and
- distress ratings (scores associated with the severity and density of the road surface distresses).

In addition to the above, additional comments with respect to the road environment, configuration, existing conditions or obvious issues were recorded.

To ensure consistency with the Township's asset management database, the road sections and reference numbers (Asset ID) as per the database were employed. Where necessary, existing road sections were further sub-divided to ensure that each section maintained a relatively consistent cross-section or condition (eg. Asset 1000 subdivided into 1000.1 and 1000.2). Where new road sections were identified (ie. within the Township's GIS database but not within the asset management database), such have also been noted.

The corresponding road inventory forms are provided in Appendix A. As the types of distresses vary by road surface type (gravel, surface treated or asphalt), separate road inventory forms were prepared for each.

3 Traffic Volumes & Operations

3.1 EXISTING VOLUMES

Updated traffic counts were not completed in conjunction with this study. Rather, traffic volumes for the subject roads were determined from the *Road Needs Study 2017*, supplemented with traffic data from Northumberland County for former county roads (eg. King Street East and Toronto Street). It is noted that the *Road Needs Study 2017* did not provide detailed traffic volumes, but rather provided a generalized range (eg. less than 50, 50 to 99, 100 to 199, 200 to 249, 250 to 399, etc.). Given the limited volumes on most roads, this level of aggregation is considered appropriate.

For those road sections where no data was available, traffic volumes were estimated based on the available data and considering similarities in road function and location, and existing development levels along the road and the overall use of the road. In most instances, road sections on either side of a road section with a known traffic volume will have similar traffic levels, particularly in the case of major through roads.

For roads within built-up areas, as per industry standards and trip generation rates, a typical single unit home generates 1 trip during the peak hour or 10 trips per day (note: a round-trip constitutes 2 trips). For rural residential areas, a reduced number of 5 daily trips has been assumed.

The corresponding average daily traffic (ADT) volumes for the subject road sections are provided in Appendix B, whereas a summary of the daily volumes is provided in Table 1. As indicated:

- almost one-quarter of the road sections serve less than 50 vehicles per day (20% by length);
- the majority serve in the order of 100 to 1000 vehicles per day (75%); and
- a limited number of road sections (29) serve more than 1000 vehicles per day (5%).

The roads serving the greatest traffic volumes (1000 or greater vehicles per day) include:

- Little Lake Road (5 road sections - 1000 vpd);
- Purdy Road (7 sections – 1700 to 1800 vpd);
- King Street East (10 sections – 4700 vpd); and
- Toronto Street (6 sections – 4700 vpd).

Table 1: Daily Traffic Volumes – 2023

TRAFFIC VOLUME			ROAD SECTIONS		ROAD LENGTH	
			Number	Percent	Kilometres	Percent
	ADT	< 50	81	24%	46.3	20%
50 ≤	ADT	<100	0	0%	0.0	0%
100 ≤	ADT	< 200	27	8%	29.4	13%
200 ≤	ADT	< 400	147	43%	109.6	49%
400 ≤	ADT	< 1000	57	17%	29.4	13%
1000 ≤	ADT	< 2000	13	4%	8.0	4%
2000 ≤	ADT		16	5%	2.8	1%
Total			**341**	**100%**	**225.5**	**100%**

3.2 FUTURE VOLUMES

Traffic volumes for 5, 10 and 20-year planning horizons (2028, 2033 and 2043) have been projected based on the existing 2023 traffic volumes with consideration for future growth. Traffic volumes throughout the Township are anticipated to grow in concert with overall growth in the Township and the abutting development areas.

3.2.1 Population Growth

Based on the Census data for the years 2011, 2016 and 2021, the population of the Township increased from 6073 to 6355 to 6509 persons, which translates to an annual growth of 0.7% over the 10-year period. As per the Township's Official Plan, a population level of 6990 is expected by 2031, which translates to 0.72% annual growth from 2021 to 2031. The Official Plan also notes that 85% of the growth is expected within the Colborne urban area, with the remaining 15% to be accommodated within the built boundary.

3.2.2 Future Traffic Volumes

In establishing the future traffic volumes, the following annual growth rates have been considered:

- 0% on low volume roads (eg. serving less than 50 vehicles per day);
- 1% on local roads; and
- 2% on collector and arterial roads to reflect local and inter-regional travel and connectivity of these to the county and provincial highway network.

The noted growth rates were applied to the 2023 daily volumes to yield forecasts for 2028, 2033 and 2043. A summary of the 2043 (20-year) projections is provided in Table 2, whereas additional details for each road section and for each horizon year are provided in Appendix B.

Table 2: Daily Traffic Volumes - 2043

TRAFFIC VOLUME			ROAD SECTIONS		ROAD LENGTH	
			Number	Percent	Kilometres	Percent
	ADT	< 50	81	24%	46.3	20%
50 ≤	ADT	<100	0	0%	0.0	0%
100 ≤	ADT	< 200	27	8%	29.4	13%
200 ≤	ADT	< 400	147	43%	109.6	49%
400 ≤	ADT	< 1000	57	17%	29.4	13%
1000 ≤	ADT	< 2000	6	2%	2.9	1%
2000 ≤	ADT		23	7%	8.0	4%
Total			**341**	**100%**	**225.5**	**100%**

3.3 TRAFFIC OPERATIONS

3.3.1 Planning Capacities

For planning purposes, the following road capacities are considered appropriate:

- local road: 400 vehicles per hour per lane (vphpl);
- collector road: 600 vphpl; and
- arterial road: 800 vphpl.

The varying capacities reflect the extent to which traffic operations are affected by operating speeds, the presence of driveways and intersections, traffic signals and other road users (with the greatest impacts occurring on local roads).

In considering daily operations, the above translate to the following daily lane capacities (employing a factor of 10):

- local road: 4,000 vehicles per day per lane (vpdpl);
- collector road: 6,000 vpdpl; and
- arterial road: 8,000 vpdpl.

In this regard, a 2-lane local road has a capacity of 8,000 vehicles per day, whereas a 2-lane arterial road has a capacity of 16,000 vehicles per day.

3.3.2 Capacity Assessment

In considering the future projected volumes and the noted capacities, the resulting volume to capacity ratios (a measure of the degree to which the road capacity is utilized), are all acceptable. The following are noted:

- the average v/c ratio is 0.06, indicative of roads operating at 6% of their respective capacities; and
- the greatest v/c ratio is 0.44 which occurs on King Street East and Toronto Street, suggesting that these roads are projected to operate at 44% capacity in 20 years.

In this regard, there are no traffic operational issues anticipated on the Township road network. All roads will operate well below their capacities in 2043.

4 Road Conditions

A full road inventory presenting the existing road conditions is included in Appendix C, whereas summaries of select items (environment, classification, surface type, surface width and drainage) are presented below.

4.1 ROAD ENVIRONMENT

Road sections were categorized as rural, semi-urban or urban, recognizing that road cross sections and standards differ should improvements be required. The respective environments are described as follows:

- the rural environment is typical of areas with sparse development or where development accounts for less than 50% of the street frontage;
- the urban environment is defined as being where curb and gutters (or similar) are present (on one or both sides of the road) and a higher level of development is present; and
- the semi-urban environment has development exceeding 50% of the frontage but no curb and gutter.

A summary of the road environments is presented in Table 3. As noted, the majority of the roads are considered rural (91% by length).

Table 3: Road Environment

ENVIRONMENT	ROAD SECTIONS		ROAD LENGTH	
	Number	Percent	Kilometres	Percent
Rural	257	75%	206.9	92%
Semi-Urban	24	7%	7.7	3%
Urban	60	18%	11.0	5%
Total	**341**	**100%**	**225.5**	**100%**

4.2 ROAD CLASS

The classification of the road network is based on the role and function of the road and the need to provide a hierarchy of transportation routes within the Township. In particular, the following classes have been considered (as per the Township's Official Plan):

- Local Roads
  - intended to provide access to abutting properties and to discourage through traffic
  - travel speeds and road capacity are typically lower on local roads, reflective of the number of driveways and access points
- Collector Roads
  - collector roads are intended to collect traffic from individual local roads and direct it to arterial roads, county roads or provincial highways
  - direct access to abutting properties shall be minimized to the extent possible
- Arterial Roads
  - major transportation routes carrying higher volumes of inter-municipal traffic and may require and/or be planned for up to 6 lanes (ie. 3 per direction)
  - connect communities to provincial highways
  - road width and intersection improvements shall be designed so as to encourage through traffic to use these routes rather than collector or local roads
  - direct access to abutting properties will generally not be permitted

A summary of the overall road class distribution through the Township is provided in Table 4.

Table 4: Road Class

ENVIRONMENT	ROAD SECTIONS		ROAD LENGTH	
	Number	Percent	Kilometres	Percent
Local	308	90%	217.3	96%
Collector	15	4%	5.4	2%
Arterial	18	5%	2.9	1%
Total	**341**	**100%**	**225.5**	**100%**

Collector roads include:

- Durham Street North;
- Durham Street South; and
- Victoria Street.

Arterial roads include:

- King Street E;
- King Street W (Toronto to Percy); and
- Toronto Street.

4.3 MAINTENANCE CLASS

The roads have also been classified in accordance with the *Ontario Regulation 239/02 Minimum Maintenance Standards*. The purpose of the regulation is to establish road classifications from which minimum road maintenance standards (related primarily to winter maintenance) can be established. Based on the average daily traffic volumes (ADT) and the posted speed limit, roads are classified into one of six classes, denoted simply as Class 1 through Class 6.

- A Class 1 road is typical of those with higher traffic volumes and/or speed limits (speed limit = 100 km/h regardless of ADT, or ADT > 8,000 and speed = 90 km/h or ADT > 23,000 and speed = 80 km/h), thus requiring a greater level of road maintenance.
- Alternatively, a Class 6 road is typical of low volume roads (ADT < 50 vehicles and speed ≤ 80 km/h; ADT < 200 vehicles and speed ≤ 50 km/h or ADT < 500 vehicles and speed ≤ 40 km/h) and thus does not warrant the same maintenance standards.

A summary of the road classification is provided in Table 5. As noted, all roads with an ADT of less than 50 and a speed limit of less than 80 km/h are considered Class 6 roads, meaning that there isn't a Minimum Maintenance Standard (ie. they are not subject to O.Reg. 239/02). In addition, the *Inventory Manual for Municipal Roads* deems the existing condition of rural roads with less than 50 vehicles per day as being adequate (ie. addressed via routine maintenance only).

Table 5: Maintenance Class

CLASS	ROAD SECTIONS		ROAD LENGTH	
	Number	Percent	Kilometres	Percent
Class 1	0	0%	0.0	0%
Class 2	0	0%	0.0	0%
Class 3	19	6%	4.1	2%
Class 4	124	36%	126.2	56%
Class 5	115	34%	48.2	21%
Class 6	83	24%	47.0	21%
Total	**341**	**100%**	**225.5**	**100%**

4.4 SURFACE TYPE

Surface type refers to the surface material of the individual road sections, including:

- gravel;
- surface treatment (ie. low class bituminous or LCB which consists of an application of emulsified or liquid asphalt and aggregate over an existing surface); and
- asphalt (ie. high class bituminous or HCB).

The distribution of road surface types is summarized in Table 6, with approximately 35% by length being gravel and the remaining 65% hard surfaced (asphalt or surface treated).

Table 6: Road Surface

ENVIRONMENT	ROAD SECTIONS		ROAD LENGTH	
	Number	Percent	Kilometres	Percent
Gravel	96	28%	78.9	35%
Surface Treated	153	45%	125.9	56%
Asphalt	92	27%	20.7	9%
Total	**341**	**100%**	**225.5**	**100%**

4.5 SURFACE WIDTH

Surface width refers to the driving width of the road. For hard surfaced roads (surface treated and asphalt), the width is the actual width as measured from edge to edge of the hard surface (excluding shoulders or curbs). For local gravel roads of less than 6.0 metres in width, the surface width corresponds to the overall platform width (edge of road to edge of road) as this reflects the minimum surface width for 2-lane roads (ie. the full road width is required to accommodate 2-way travel). For local gravel roads in excess of 6.0 metres, the surface width has been noted as 6.0 metres with any remaining width considered gravel shoulders (this recognizes that given that gravel shoulders are not discernible from the gravel travel road width). For gravel roads that are considered collectors or arterials, a width threshold of 7.0 metres has been considered (ie. anything over 7.0 metres is considered shoulder). A summary of the existing surface width, by range, is provided in Table 7. As noted, the majority of the road sections (92% by length) have widths in excess of 6.0 metres which is considered the minimum tolerable width for 2-way operations. There are 47 road sections having a width of less than 6.0 metres, amounting to 17.5 km.

Table 7: Surface Width

SURFACE WIDTH	ROAD SECTIONS		ROAD LENGTH	
	Number	Percent	Number	Percent
width < 4m	2	1%	0.6	0%
4m ≤ width < 5m	12	4%	5.2	2%
5m ≤ width < 6m	33	10%	11.6	5%
6m ≤ width < 7m	144	42%	121.0	54%
7m ≤ width < 8m	88	26%	72.4	32%
8m ≤ width	62	18%	14.6	6%
Total	**341**	**100%**	**225.5**	**100%**

4.6 ROAD DRAINAGE

A number of road drainage systems were observed, as summarized in Table 8. As noted, the majority of the road sections (98% by length) have open ditches, reflective of the rural nature of the Township.

Table 8: Road Drainage

DRAINAGE	ROAD SECTIONS		ROAD LENGTH	
	Number	Percent	Kilometres	Percent
No Drainage	69	20%	33.0	15%
Open Ditch	212	62%	181.5	80%
Storm Sewer	58	17%	10.6	5%
Ditch & Storm Sewer	2	1%	0.5	0%
Other	0	0%	0.0	0%
Total	**341**	**100%**	**225.5**	**100%**

4.7 SURFACE ASSESSMENT

4.7.1 Surface Distresses

As noted on the respective road inventory appraisal forms, the road condition surveys involved recording the severity and density (or extent) of a number of distresses for each road section, as noted in Table 9.

Table 9: Surface Distresses

CATEGORY	ASPHALT ROADS	SURFACE TREATED ROAD	GRAVEL ROADS
Surface Defects	ravelling	loss of cover aggregates	loose gravel
	flushing or bleeding	streaking	dust
	potholes	flushing	potholes
	pavement edge breaks	potholes	breakup
	manholes & catchbasins	pavement edge breaks	
Surface Deformations	rippling & shoving	rippling	washboard
	wheel track rutting	wheel track rutting	rutting
	distortion	distortion	flat / reverse crown
	utility trenches		distortion
Cracking	longitudinal	longitudinal	
	transverse	transverse	
	pavement edge	pavement edge	
	map	alligator	
	alligator		

4.7.2 Ride Comfort Rating

Further to noting existing deficiencies, a Ride Comfort Rating (RCR) was also established for each road section. RCR is a subjective measure of the road section's ride comfort determined from a drive through of the section at posted speed and assigning a rating based on the scale shown in Table 10.

Table 10: Ride Comfort Rating Scale

RCR						DESCRIPTION
0	<	RCR	≤	2	Very Poor	uncomfortable with constant bumps or depressions
2	<	RCR	≤	4	Poor	uncomfortable with frequent bumps or depressions
4	<	RCR	≤	6	Fair	comfortable with intermittent bumps or depressions
6	<	RCR	≤	8	Good	smooth with a few bumps or depressions
8	<	RCR	≤	10	Excellent	very smooth road surface and ride

A summary of the resulting Ride Condition Ratings is provided in Table 11 and illustrated graphically in Figure 1. The average RCR is 6.9, whereas the weighted average (considering the length of each road section) is 6.7. In this respect, the overall road network is considered to have a ride surface in the good category.

Table 11: Ride Comfort Rating

RCR						ROAD SECTIONS		ROAD LENGTH	
						Number	Percent	Kilometres	Percent
0	<	RCR	≤	2	Very Poor	2	1%	1.2	1%
2	<	RCR	≤	4	Poor	8	2%	2.9	1%
4	<	RCR	≤	6	Fair	127	37%	94.4	42%
6	<	RCR	≤	8	Good	151	44%	103.8	46%
8	<	RCR	≤	10	Excellent	53	16%	23.2	10%
Total						**341**	**100%**	**225.5**	**100%**

Figure 1: Ride Comfort Rating by Road Length

4.7.3 Pavement Condition Index

The Pavement Condition Index (PCI) rates the condition of the surface of the road section. It is a numerical rating based on a scale of 0 to 100, with

- 0 being the worst possible condition (eg. an impassable road); and
- 100 being the best possible condition (eg. a road in perfect condition).

The PCI is calculated as follows:

$$PCI = 100 \times (0.1 \times RCR)^{0.5} \times [(A - DMI) \div A] \times C + S$$

where

RCR = Ride Comfort Rating

DMI = Distress Manifestation Index

= $\Sigma Wi \times (Si + Di)$

Wi = weight associated with each individual distress i

Si = severity associated with each individual distress i

Di = density associated with each individual distress i

A = maximum DMI value (204 for asphalt, 180 for surface treated and 128 for gravel)

C = constant (0.924)

S = constant (8.856)

For each distress, the severity and density have been noted as follows:

- Severity
  - very slight
  - slight
  - moderate
  - severe
  - very severe
- Density
  - few (<10%)
  - intermittent (10-20%)
  - frequent (20-50%)
  - extensive (50-80%)
  - throughout (>80%)

The corresponding distress weights, severity rating and density rating (few, intermittent, frequent, extensive or throughout) are noted on the road appraisal forms provided in Appendix A. The distress weights are based upon the significance of each distress. For example, rutting is a significant pavement distress and thus has a weight of 3 (the highest weight) whereas some types of cracking are considered lesser distresses with corresponding reduced weights of 1.0. In general, base related distresses are weighted more heavily than surface related distresses. Similarly, a distress with a high severity will have a greater assigned rating than that same distress of low severity.

In considering the severity of each distress, "slight" severity refers to a condition that is observable but requires little or no action. "Moderate" and "severe" severity levels should reflect differences in the magnitude of the repair work. For example, slight potholes may require manual patching, while severe potholes may require the road section to undergo a rehabilitation project.

A summary of the PCI ranges by road sections and road length is provided in Table 12 and illustrated graphically in Figure 2 and Figure 3 for the various road surface types. The average PCI of the Township road network is 77 whereas the weighted average (weighted by length) is 75; the corresponding weighted averages for the various road surfaces are as follows:

- 80 for asphalt roads;
- 74 for surface treated roads; and
- 77 for gravel roads.

Table 12: Pavement Condition Index

PCI					ROAD SECTIONS		ROAD LENGTH	
					Number	Percent	Kilometres	Percent
0	<	PCI	≤	10	0	0%	0.0	0%
10	<	PCI	≤	20	0	0%	0.0	0%
20	<	PCI	≤	30	2	1%	1.2	1%
30	<	PCI	≤	40	0	0%	0.0	0%
40	<	PCI	≤	50	2	1%	1.0	0%
50	<	PCI	≤	60	27	8%	15.6	7%
60	<	PCI	≤	70	80	23%	60.7	27%
70	<	PCI	≤	80	98	29%	77.7	34%
80	<	PCI	≤	90	89	26%	49.3	22%
90	<	PCI	≤	10	43	13%	20.0	9%
Total					**341**	**100%**	**225.5**	**100%**

Figure 2: Pavement Condition Index by Road Length

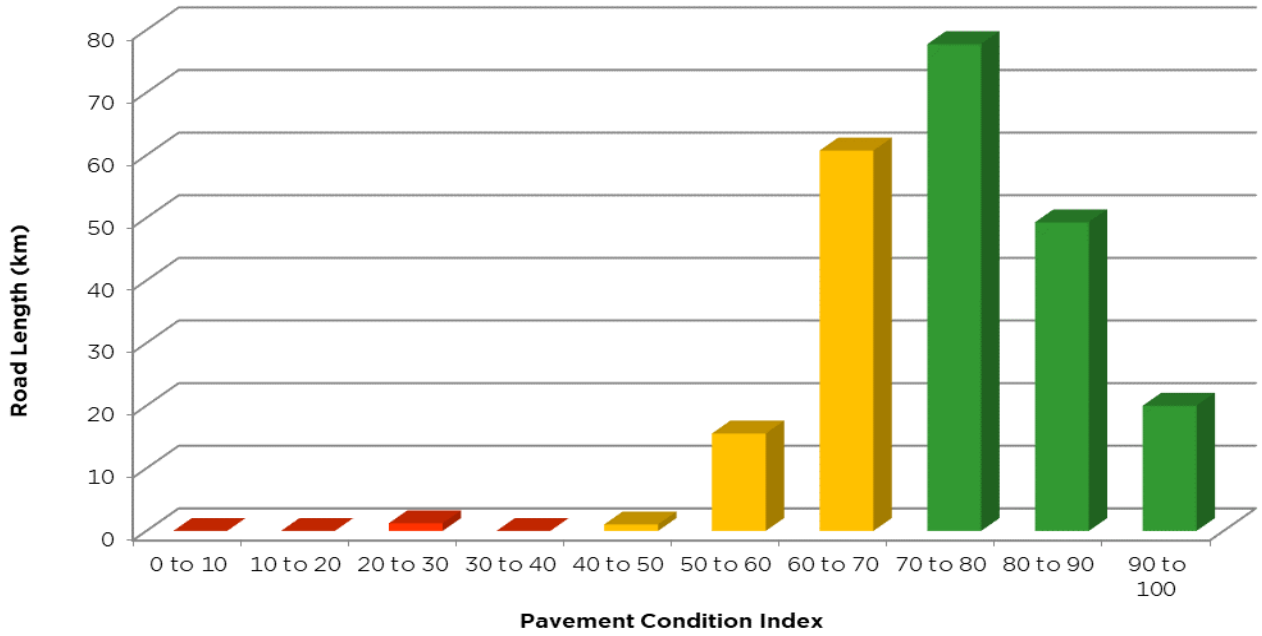
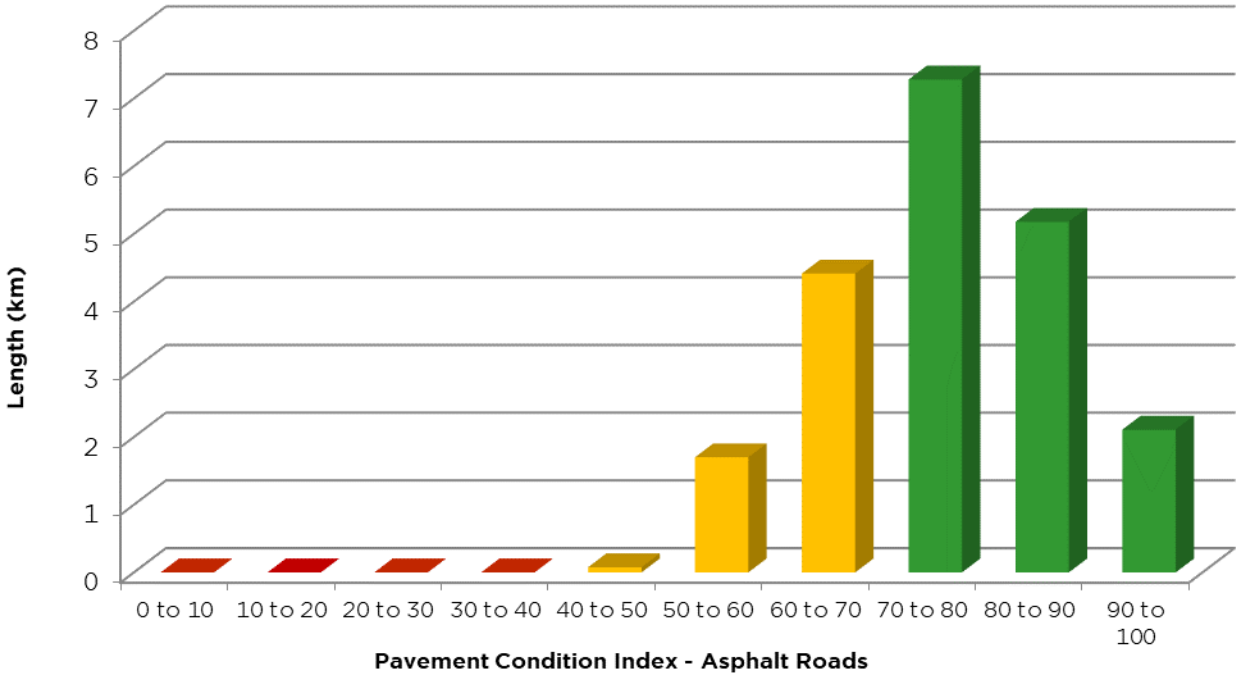


Figure 3: Pavement Condition Index by Road Length & Road Surface



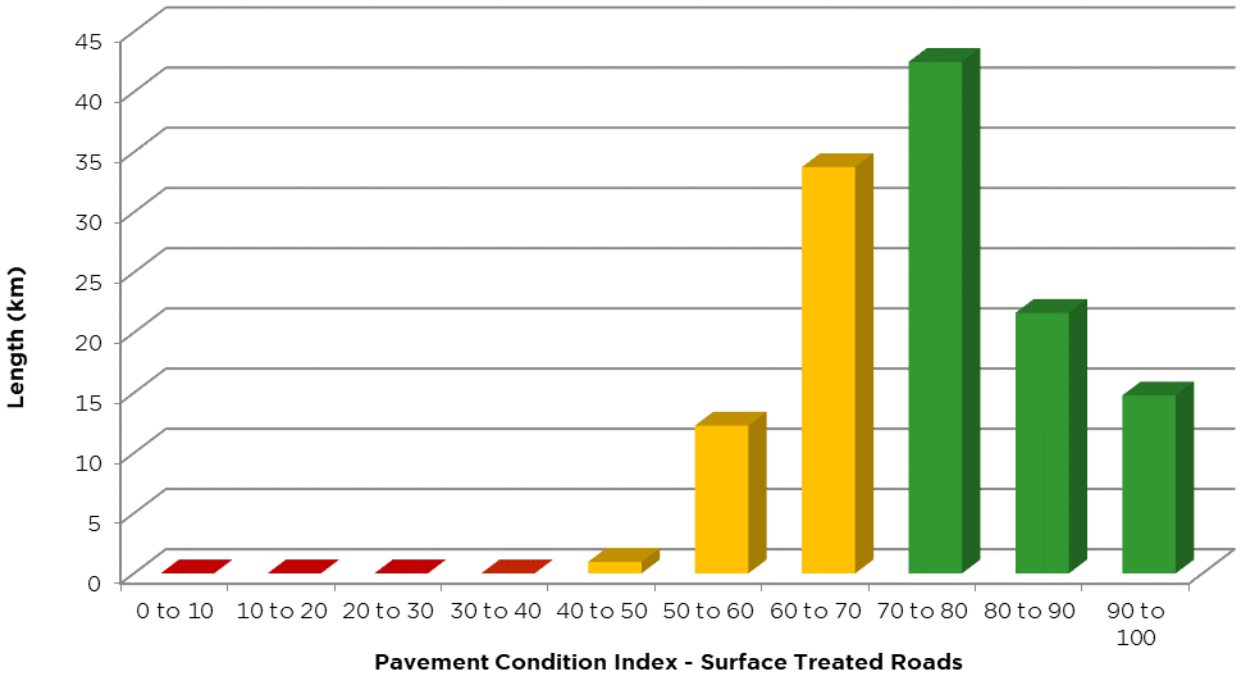
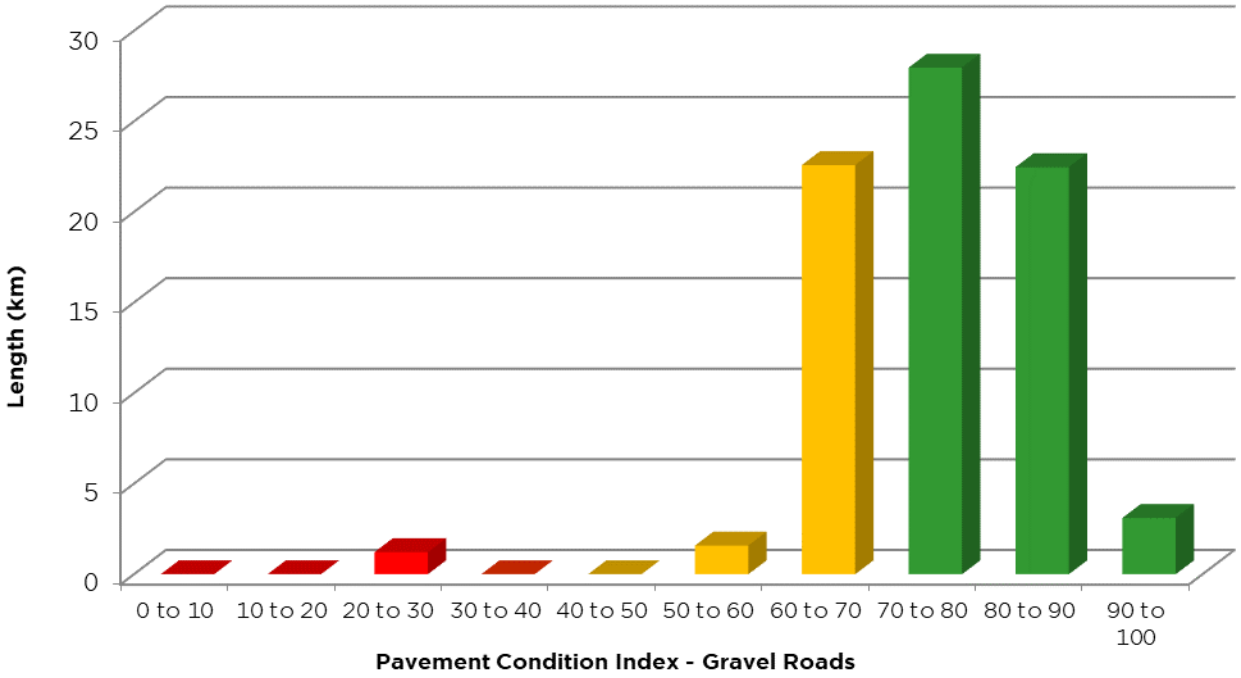


Figure 3: Pavement Condition Index by Road Length & Road Surface (cont'd)



5 Road Appraisal & Needs Assessment

The need to improve an individual road section was determined by comparing the existing physical characteristics of the road network to minimum thresholds and/or minimum tolerable standards, as determined from:

- PCI decision matrices;
- the *Inventory Manual for Municipal Roads*; and/or
- assumed road standards and general road guidelines.

Should the existing conditions not meet the minimum thresholds, or deviate from the standards, a need exists, otherwise the road is considered adequate.

Further to the Pavement Condition Index, which addresses the surface condition of the road segment (and thus inherently provides information on the road base), road needs were also considered in context of the following (which are elements of the previous Condition Rating methodology employed in the *Inventory Manual for Municipal Roads)*:

- road geometrics (substandard horizontal and/or vertical curves);
- road and shoulder widths;
- road surface type;
- traffic operations; and
- roadside drainage.

A full listing of the road sections and identified deficiencies are noted in Appendix E, whereas additional details are provided in the following sections. It is noted that seasonal roads and rural road sections with an average daily traffic volume of less than 50 vehicles have not been considered for improvements, but rather are to be maintained at a tolerable standard through normal maintenance procedures (however, semi-urban and urban road sections with less than 50 vehicles per day have otherwise been considered for deficiencies). As such, not all deficient road sections require improvements.

5.1 SURFACE CONDITION NEEDS

Surface condition needs have been established following a review of available literature and PCI guidelines to reflect repairs and treatments of similar nature and scope, and the corresponding overall pavement condition. In consideration of the relative significance associated with the road classifications (arterial vs collector vs local road) and surface types (asphalt and surface treated

vs gravel), PCI decision matrices have been established for each road class and each surface type as noted Table 13 and Table 14.

As evident, a local road condition will deteriorate to a further point as compared to collector and arterial roads before improvements are required. This is intended to reflect the role and function of each road class and traffic volumes that they serve and the corresponding expected levels of service. Similarly the thresholds for gravel roads are less, recognizing that they tend to serve lower volumes and can typically be remedied through routine maintenance.

Table 13: PCI Decision Matrix - Asphalt & Surface Treated Roads

ROAD NEED	TIME OF NEED	PCI RANGE BY ROAD CLASS		
		Arterial	Collector	Local
Reconstruct	now	0-50	0-45	0-40
Rehabilitate	now	50-55	45-50	40-45
Resurface	1-5 years	55-75	50-70	45-70
Resurface	6-10 years	75-85	70-80	70-80
Adequate		85-100	80-100	80-100

Table 14: PCI Decision Matrix - Gravel Roads

ROAD NEED	TIME OF NEED	PCI RANGE BY ROAD CLASS		
		Arterial	Collector	Local
Reconstruct	now	0-30	0-25	0-20
Rehabilitate	now	30-50	25-45	20-40
Resurface	now	50-70	45-65	40-60
Adequate		70-100	65-100	60-100

5.1.1 Road Improvement Needs

As noted, a number of road improvement strategies have been considered in the PCI decision matrices, including:

- resurfacing to address minor structural deficiencies (all road classifications);
- rehabilitation to address more significant structural deficiencies; and
- full reconstruction to address major structural deficiencies (all road classifications).

Resurfacing

Resurfacing includes the overlaying of the existing paved surface with a single or double lift of asphalt or surface treatment depending on the appropriate Township standard and existing surface type, recognizing that the surface type should not be downgraded (ie. if the road is currently asphalt, any future works should also reflect an asphalt surface).

In the case of rural and semi-urban roads, it is assumed that the existing asphalt or surface treatment will be pulverized and regraded, an additional 50 mm of granular added followed by a new road surface. Additional granulars would also be applied to the gravel shoulders (if such exist). For urban roads, it assumed that the asphalt will be milled and removed, prior to new asphalt. In addition, 10% base repairs have been assumed (necessitating removal and replacement of Granular A, and curb and gutter).

For resurfacing works, it is assumed that the existing road cross-section (ie. width of driving surface and shoulders) would be maintained.

Rehabilitation

Rehabilitation reflects roads with needs exceeding that of simple resurfacing, extending into road base issues. As such, it is assumed that 25% of the road base is to be replaced. For rehabilitation works, it is assumed that the existing road cross-section (ie. width of driving surface and shoulders) would be maintained.

Reconstruction

Reconstruction includes the full removal and replacement of the road, including the underlying base material. In the case of urban road sections, this will also include replacement of curb and gutter, in addition to adjustment of underground services.

For reconstruction of all roads (urban, semi-urban and rural roads), a minimum road width as per current Township standards has been assumed (the existing road width has been maintained if it exceeds the Township standard).

Adequate

Roads with no identified needs are deemed adequate. Regular maintenance, including preventative maintenance measures, should be undertaken to prolong the adequate conditions.

5.1.2 Time of Need

The time of need has been established based on the PCI decision matrices, road surface type, road classification and thresholds as noted in Table 13 and Table 14.

For the hard surfaced roads (asphalt and surface treated), the time of need reflects when the road would have to be reconstructed assuming continued deterioration. For example, an arterial road with a PCI of 60 is likely to require reconstruction within the next 1 to 5 provided no other works are undertaken. Resurfacing could be considered to extend the useful life of the road and defer the need for future reconstruction (given that resurfacing will restore the PCI value).

Adequate

Roads with no identified needs are deemed adequate.

Now Needs

Now needs represent construction improvements identified immediately, based on the road condition (not otherwise considering available funding and/or pavement management strategy).

1 to 5 Year Needs

1 to 5-year needs identify road sections where road improvements are anticipated within the next 5 years, based upon a review of their current condition. These roads are good candidates for other strategies that would extend the life of the road (depending on the other deficiencies if any), deferring the need to improve.

6 to 10 Year Needs

6 to 10-year needs identify road sections where improvements are anticipated within 6 to 10 years, based upon a review of their current condition. These roads are also good candidates for other strategies to extend the life of the road and defer the need for improvement.

5.1.3 Summary of Surface Condition Needs

The resulting road needs, as determined solely from the pavement condition indices (which are reflective of the road surface conditions) are summarized in Table 15.

In considering the improvement needs (ie. resurface, rehabilitate or reconstruct), they amount to 152 road sections (45% of the total road sections) and 106.3 km (48% of the total road length).

Table 15: Surface Condition Needs

ROAD NEED	ROAD SECTIONS		ROAD LENGTH	
	Number	Percent	Kilometres	Percent
Reconstruct	0	0%	0.0	0%
Rehabilitate	2	1%	1.2	1%
Resurface	150	44%	105.1	47%
Adequate	189	55%	119.3	53%
Total	**341**	**100%**	**225.5**	**100%**

5.2 SURFACE TYPE NEEDS

The required road surface types were determined based on the road class and relevant standards and road guidelines (standards are provided in Appendix D) and are noted in Table 16.

Table 16: Surface Type Requirements

ROAD CLASS	URBAN	RURAL & SEMI-URBAN	
Local Road	asphalt	gravel	≤ 200 vehicles per day
		surface treated	201 - 400 vehicles per day
		asphalt	> 400 vehicles per day
Collector Road	asphalt	gravel	≤ 200 vehicles per day
		surface treated	201 - 400 vehicles per day
		asphalt	> 400 vehicles per day
Arterial Road	asphalt	asphalt	

It is noted that the above apply to new road construction. As per the *Inventory Manual for Municipal Roads*, the assessment of the existing road surface is based on a reduced minimum tolerable standard (gravel is suitable for up to 400 vehicles per day, surface treatment for up to

1000 vehicles per day, otherwise asphalt). All surface type needs are considered "now" needs. The resulting surface type needs are summarized in Table 17.

Table 17: Surface Type Needs

TIME OF NEED	ROAD SECTIONS		ROAD LENGTH	
	Number	Percent	Kilometres	Percent
Now	3	1%	1.0	0%
Adequate	338	99%	224.5	100%
Total	**341**	**100%**	**225.5**	**100%**

As noted, 3 road sections (all Ontario Street) have identified surface type needs in that they are all currently gravel, but based on the traffic volumes, they should be asphalt (albeit surface treatment would be considered tolerable given the associated traffic volumes are projected to be 400 vehicles per day).

5.3 SURFACE WIDTH NEEDS

The required road surface width is based on road class and environment, as per the corresponding standards provided in Appendix D and summarized in Table 18.

Table 18: Surface Width Requirements

ROAD CLASS	RURAL	SEMI-URBAN	URBAN[1]
Local Road	3.0 m lanes	3.0 m lanes	4.25 m lanes[1]
Collector Road	3.5 m lanes	3.5 m lanes	3.5 m lanes
Arterial Road	3.5 m lanes	3.5 m lanes	3.5 m lanes

[1] the wider urban road widths accommodate on-street parking

In establishing road width deficiencies, a minimum tolerable standard has also been considered, as determined from MTO standards and in context of typical Township standards. For purposes of assessment, a minimum tolerable lane width of 3.0 metres has been assumed for all road classes and environments accommodating 2-way travel. There are several single lane one-way urban roads within the Township, for which a minimum width of 4.25 metres has been assumed (to accommodate 1 lane of travel + on-street parking).

Only when the road width is less than the minimum tolerable standard, is a road width deficiency noted. This recognizes that while a road's width may be less than the desired standard, it may provide adequate function and operations, and hence widening may not be required.

The resulting road width needs are summarized in Table 19. It is noted that all surface width deficiencies are considered "Now" needs. As previously noted, for asphalt and surface treated roads, the existing width corresponds to the hard surface width (eg. edge of pavement to edge of pavement); for gravel roads, the road width is taken as the existing gravel width to a maximum of 6.0 metres for local roads and 7.0 metres for collector and arterial roads (anything beyond these widths is considered as shoulder).

As noted, 49 road sections have widths of less than 6.0 metres for 2-way road operations (the widths of the one-way roads are considered appropriate).

Table 19: Surface Width Needs

TIME OF NEED	ROAD SECTIONS		ROAD LENGTH	
	Number	Percent	Kilometres	Percent
Now	45	13%	17.2	8%
Adequate	296	87%	208.3	92%
Total	**341**	**100%**	**225.5**	**100%**

5.4 SHOULDER WIDTH NEEDS

The required shoulder width requirements are detailed in the standards of Appendix D for rural and semi-urban roads (shoulders are not required on urban roads and thus not listed). In all cases, a 1.0 metre gravel shoulder has been adopted. As with the road width, a minimum tolerable shoulder width has been considered (0.5 metres in all cases), with deficiencies noted only when the existing shoulder width is less than the minimum tolerable width.

For gravel roads, shoulders are only assumed present on those roads having a platform width greater than 6.0 metres for local roads and 7.0 metres for collectors and arterials (up to these widths is considered the driving width, anything beyond is considered shoulder width). This reflects that gravel shoulders are not otherwise readily distinguishable from the gravel travel lanes and that with reduced gravel road widths, motorists will use the entire width as the lane.

A summary of needs is provided in Table 20 All shoulder width needs are considered "now" needs.

Table 20: Shoulder Width Needs

TIME OF NEED	ROAD SECTIONS		ROAD LENGTH	
	Number	Percent	Kilometres	Percent
Now	78	23%	53.0	23%
Adequate	263	77%	172.6	77%
Total	**341**	**100%**	**225.5**	**100%**

5.5 ROAD CAPACITY NEEDS

For planning purposes, the road capacities noted in Table 21 are considered appropriate. The varying capacities reflect the extent to which traffic operations are affected by operating speeds, the presence of driveways and intersections, traffic signals and other road users (with the greatest impacts occurring on local roads). In considering daily operations on 2-lane roads, the daily capacity of a single lane is assumed 10x the hourly capacity.

Table 21: Road Capacity

ROAD CLASS	HOURLY CAPACITY PER LANE	DAILY CAPACITY PER 2 LANE ROAD
Local Road	400 vehicles	8,000 vehicles
Collector Road	600 vehicles	12,000 vehicles
Arterial Road	800 vehicles	16,000 vehicles

In considering the future projected volumes and the noted capacities, all of the Township roads will operate within the available capacity. The highest operating level is 29% of capacity based on 2023 operations and 44% of capacity based on 2043 operations (corresponding to sections of King Street E and Toronto Street). As such, there are no capacity needs.

5.6 DRAINAGE NEEDS

Drainage needs have been based on a visual inspection and in consideration of the ability of the roadside ditch (provided such is present) to adequately drain the road base and convey stormwater flows (including height of road grade, cross slope, ditch capacity and maintenance

efforts required to maintain the ditches). Ditches were rated as being in "good", "fair" or "poor" condition. A drainage need may occur on road sections that have otherwise been rated adequate or that have other identified needs.

A summary of the drainage needs is provided in Table 22. Any road section receiving a "poor" assessment (others being "good" or "fair") is considered to have a drainage need - the time of need is "now".

As noted, approximately 50% of the road sections and 55% of the road lengths were noted as having drainage deficiencies resulting in a "poor" rating (ditches identified as having extensive vegetation requiring removal were considered "poor"). It is anticipated that drainage will be addressed with other road improvements and/or through routine maintenance and thus improvements to address drainage deficiencies alone are not considered.

Table 22: Drainage Needs

TIME OF NEED	ROAD SECTIONS		ROAD LENGTH	
	Number	Percent	Kilometres	Percent
Now	175	51%	123.6	55%
Adequate	166	49%	101.9	45%
Total	**341**	**100%**	**225.5**	**100%**

5.7 MULTIPLE NEEDS

A number of road sections inventoried have 1 or more deficiencies, considering surface condition, road geometrics, surface type, surface width, shoulder width, road capacity and drainage.

A summary of the number of deficiencies is provided in Table 23 whereas a full listing of all deficiencies is provided in Appendix E.

Table 23: Multiple Deficiency Road Sections

NUMBER OF DEFICIENCIES	ROAD SECTIONS		ROAD LENGTH	
	Number	Percent	Kilometres	Percent
0	137	40%	80.7	36%
1	123	36%	93.2	41%
2	56	16%	37.5	17%
3	25	7%	14.1	6%
4	0	0%	0.0	0%
5	0	0%	0.0	0%
6	0	0%	0.0	0%
7	0	0%	0.0	0%
Total	**341**	**100%**	**225.5**	**100%**

5.8 OTHER NEEDS

In addition to the noted road system improvements, a number of other issues were identified through the course of the road investigations and in consultation with Township staff. These include:

- box culvert heave on Kensington Avenue between King Street E and Alfred Street and erosion along the south side of the culvert inlet;
- settling of the road adjacent to the sidewalk at the school bus loading zone on Alfred Street between Elgin Street S and Kensington Avenue;
- roadside ditches that do not adequately drain the road base (due to insufficient depth, blockages, excessive vegetation, etc.); and
- failure of storm sewer pipes, which can result in drainage issues and settling of the road above.

The noted deficiencies for the Kensington Avenue and Alfred Street road sections will be considered in conjunction with the identification of appropriate improvement strategies. With

respect to the drainage ditches, the ability of the ditches to adequately convey flows was considered in the ditch assessment, as was otherwise evident through the field investigations. Where significant vegetation was identified within the ditches or other impediments, a recommendation for ditch cleanout has been noted.

Furthermore, concerns were also noted with respect to the required maintenance of the Colborne Creek and embankment erosion adjacent to King Street E between Kensington Avenue and the Streamside Drive sidewalk access. This creek acts as a natural drainage corridor through Colborne and thus any related drainage deficiencies could result in upstream issues. In this regard, both monitoring of problematic areas and regular maintenance are required (albeit it is noted that such is beyond the scope of a road needs study).

6 Road Improvements

The need to improve an individual road section was determined by comparing the existing physical characteristics of the road network to the minimum tolerable standards, as defined in the *Inventory Manual for Municipal Roads* and/or established in conjunction with Township standards and relevant design guidelines. Should the existing conditions deviate from the standards, a need exists, otherwise the road is considered adequate.

6.1 IMPROVEMENT STRATEGIES

For each identified road improvement need, a corresponding improvement strategy was identified. In considering current Township practices, the following improvement strategies have been considered:

R	▪ resurface to address minor structural deficiencies or surface type deficiencies ▪ resurface with gravel, single surface treatment or one lift of asphalt, as dictated by the appropriate road standards or existing conditions ▪ applicable to urban roads only
PR	▪ pulverize and resurface to address minor structural deficiencies or surface type deficiencies ▪ resurface with gravel, double surface treatment or asphalt, as dictated by the appropriate road standards ▪ applicable to rural and semi-urban roads only
WR	▪ widen and resurface to address surface width deficiencies and/or capacity deficiencies ▪ resurface with gravel, double surface treatment or asphalt, as dictated by the appropriate road standards or existing conditions
BS	▪ resurface or pulverize and resurface to address minor structural deficiencies or surface type deficiencies ▪ replace 25% of the road base to address structural deficiencies ▪ surface with gravel, double surface treatment or asphalt, as dictated by the appropriate road standards or existing conditions
REC	▪ reconstruct to address major structural deficiencies ▪ surface with gravel, double surface treatment or asphalt, as dictated by the appropriate road standards or existing conditions

Resurfacing strategies (including pulverization and resurfacing) include the overlaying of the existing surface with gravel, a single or double lift of asphalt or double lift of surface treatment, depending on the existing road surface and corresponding standard. For pulverization and resurfacing, it is assumed that a 50 mm lift of Granular A will be placed prior to finishing of the road surface. Scarifying and grading, in the case of existing gravel roads, would be used in place

of pulverization (the intent of which is to break up the existing gravel surface and renew it) with additional granular placed as noted. In addition, resurfacing applies to roads with an identified surface type need (ie. if the road is currently gravel but should be surface treated or asphalt based on the design standards, resurfacing has been recommended). Again, it is assumed that an additional lift of Granular A will be placed. With resurfacing strategies, the existing shoulder and road widths are maintained.

To address surface width deficiencies and/or capacity deficiencies, the road is to be widened. Gravel roads are to be widened to a gravel surface, provided this surface type is adequate, whereas hard top roads are to be widened and resurfaced with a new hard top surface. In the case of widening gravel roads, it is assumed that a new lift of Granular A will be placed over the entire road width to provide an upgraded driving surface. Widenings would include a widening of the road surface and the shoulders to reflect current Township standards.

Reconstruction includes the full removal and replacement of the road, including the underlying granular material. In the case of urban road sections, this will also include replacement of curb and gutter, in addition to adjustment to underground services (referred to as reconstruct with nominal storm sewer). With reconstruction, it is assumed the road is reinstated to Township standards with respect to road and shoulder widths (eg. widen as needed).

In many cases, the existing road section surface type exceeds the minimum requirements; any resurfacing of such road sections assumes the existing surface will be maintained (eg. road surfaces will not be downgraded).

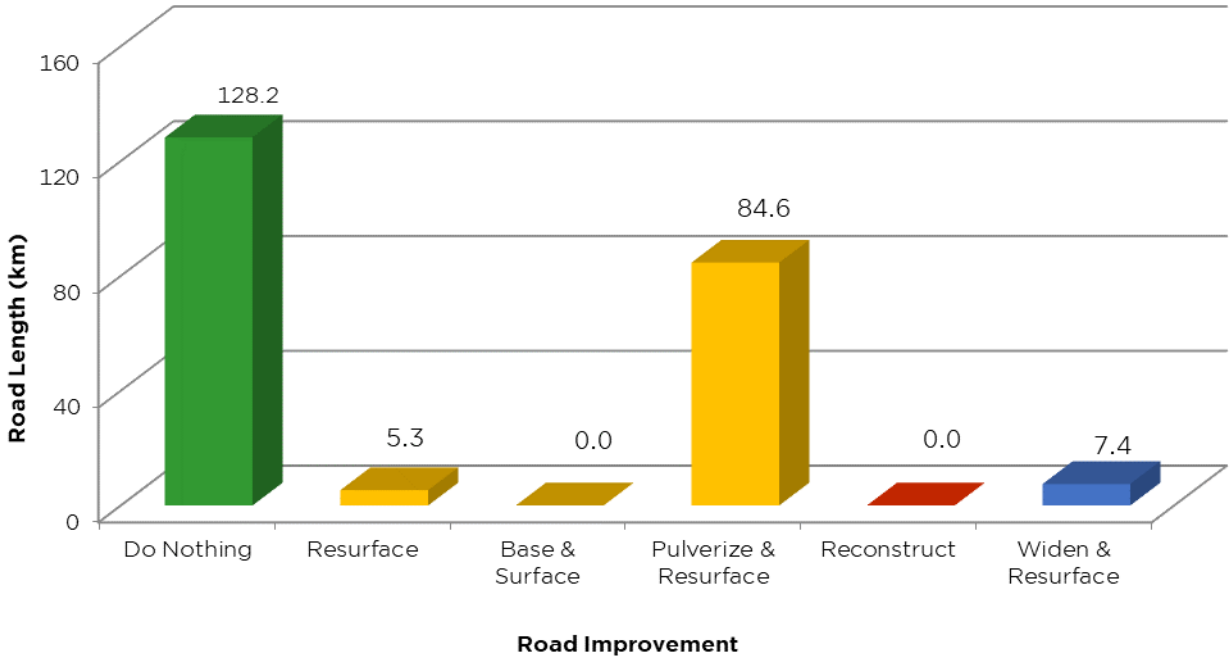
6.2 IMPROVEMENT RECOMMENDATIONS

The identified road deficiencies (should such exist) and resulting road improvement recommendations are listed in Appendix E by road section - where no improvements are required, no recommendations are otherwise provided. Figure 4 illustrates the resulting length of road requiring improvement by type of improvement.

Overall, 43% of the current road network requires improvements (97.4 km); the predominant improvement is pulverize and resurface (84.6 km or 38%).

For each identified road section deficiency, the time of need was also identified - now, within years 1 to 5, or within years 6 to 10 - which was based on minimum acceptable standards and a review of the required road improvements. These individual requirements were then reviewed to determine the timing of the recommended road section improvements, which are noted in the listings of Appendix E.

Figure 4: Road Improvement Recommendations by Road Length



It is noted that seasonal roads and rural roads serving less than 50 vehicles per day were not considered for improvements over and above those undertaken through normal maintenance. In other words, any road improvements required for seasonal and low volume rural road sections are assumed to be addressed through the Township's annual road maintenance program.

6.3 IMPROVEMENT COSTS

6.3.1 Benchmark Costs

Cost estimates to address the identified needs and implement the improvements have been based on the benchmark cost method as outlined in the *Inventory Manual for Municipal Roads* and in consideration of the assumed road standards and improvement strategies previously discussed. The benchmark costs consider all major cost items associated with road construction. Individual costs have been prepared specific to each improvement strategy based on the road environment and cross-section. As these elements can vary by road section, general benchmark costs cannot be determined; rather they are determined for each specific application.

6.3.2 Per Unit Costs

Per unit construction costs have been determined based on information obtained from recent projects/tender awards, supplemented with cost information from other road improvement projects within the Township. The unit costs employed in this study are listed in Table 24.

Table 24: Unit Costs

ITEM	UNIT	COST	ITEM	UNIT	COST
Excavation & disposal	m^3	$20	Manhole - remove	each	$1,000
Hot mix asphalt	tonne	$215	Manhole - place	each	$10,000
Surface treatment - single	m^2	$5	Manhole- adjust	each	$2,000
Surface treatment - double	m^2	$10	Catch basin - leads	m	$400
Granular A	tonne	$33	Catch basin - remove	each	$600
Granular B	tonne	$34	Catch basin - place	each	$6,000
Curb & gutter - remove	m	$55	Catch basin - adjust	each	$500
Curb & gutter - place	m	$100	Asphalt planning	m^2	$5
Sub drains	m	$40	Pulverize/Scarify & grade	m^2	$2
Storm sewer - 525mm	metre	$500	Ditching (clean out)	m	$20

For ditching, the noted unit price reflects that many of the Township's ditches will require removal of trees and/or vegetation to facilitate the construction of appropriate drainage facilities.

6.3.3 Adjustment Factors

In addition to the basic construction costs developed from the above per unit costs, various adjustment factors have also been implemented in the overall benchmark cost development (as per MTO standards). These include:

- basic construction factor (to account for small construction items);
- engineering factor (to account for engineering design and construction supervision);
- contingency factor (to allow for unforeseen costs); and
- terrain and soil type factor (to account for the various terrains and presence of rock).

6.3.4 Estimated Road Improvement Costs

The resulting road improvement costs, which reflect the benchmark cost procedures, adjustment factors and recommended improvement strategies, are provided for each road section in the listings of Appendix E (improvements by road section), whereas a summary is provided in Table 25.

In total, 139 of 341 road sections warrant improvements (41%), amounting to 97.4 km (43%), with a total improvement cost value of $25.2M.

Table 25: Improvement Cost Summary

IMPROVEMENT	ROAD SECTIONS		ROAD LENGTH		COST ($M)
	Number	Percent	Kilometres	Percent	
Do Nothing	`	59%	128.2	57%	$0.0
Resurface	24	7%	5.3	2%	$2.9
Base & Surface	0	0%	0.0	0%	$0.0
Pulverize & Resurface	97	28%	84.6	38%	$20.5
Reconstruct	0	0%	0.0	0%	$0.0
Widen & Resurface	18	5%	7.4	3%	$1.8
Total	**341**	**100%**	**225.5**	**100%**	**$25.2**

As noted, there are 18 road sections identified for widen and resurface. Of these, 7 have road width deficiencies only; the remaining 11 have other deficiencies beyond the road width.

7 Priorities & Recommendations

Further to the identification of the road improvement needs and timing of such (ie. now, 1-5 years or 6-10 years), the improvements have been prioritized to provide the Township with a mechanism for implementation. The development of the road priority has considered:

- the physical road condition (ie, pavement condition index);
- traffic volumes; and
- the resulting road improvement costs.

7.1 PRIORITY RATING

To assist in determining the relative importance and the benefit of improving an individual road section before another, each deficient section has been rated based on the Ministry of Transportation's priority rating scheme. This is an empirical approach, which considers not only the existing condition of the road section (as per the condition rating), but also the traffic volumes that it serves. In this regard, roads of equal condition are prioritized based on their traffic volumes, with priority given to those which serve the greater number of users. While a road may be in poor condition and hence have a low condition rating, it may not justify having priority if it serves lower traffic volumes.

Priority Rating	=	$0.2\ (100 - \text{Condition Rating}) \times (\text{AADT} + 40)^{0.25}$
where		
Condition Rating	=	a score out of 100 to reflect the physical condition of the road section (PCI has been employed in lieu of the condition rating)
AADT	=	average annual daily traffic volume

The resulting priority ratings are provided in Appendix F for those road sections which have identified deficiencies requiring improvements (ranked highest to lowest).

7.2 PRIORITY GUIDE NUMBER

For practical purposes, consideration should also be given to the cost of improving the road section, which is the purpose of calculating a priority guide number (which reflects the cost to benefits). Although a road section may have a high priority rating indicative of poor conditions and/or high traffic volumes, the improvement costs per vehicle·kilometre of travel may be substantial and thus not justified. For each road section with noted improvement costs, a priority guide number has been determined in accordance with the following MTO guidelines:

$$\text{Priority Guide Number} = \frac{100 - \text{Condition Rating}}{\text{Cost per Vehicle·km (in cents)}}$$

where

Condition Rating = a score out of 100 to reflect the physical condition of the road section (PCI has been employed in lieu of the condition rating)

In considering the cost per vehicle kilometre (in cents), a 20-year period is considered for the construction type improvements whereas a 10-year period is considered for the resurfacing type improvements (indicative of the life span of each) as indicated below:

Construction:

$$\text{Cost per Vehicle} \cdot \text{km} = \frac{\text{Cost per km (in cents)}}{\frac{(\text{Present AADT} + \text{Future AADT})}{2} \times (365 \text{ days/year}) \times 20 \text{ years}}$$

Resurfacing:

$$\text{Cost per Vehicle} \cdot \text{km} = \frac{\text{Cost per km (in cents)}}{\frac{(\text{Present AADT} + \text{Future AADT})}{2} \times (365 \text{ days/year}) \times 10 \text{ years}}$$

The larger the priority guide number, the higher the priority of the section relative to its condition, the traffic it is serving and the cost of improvement to provide the most service to traffic for the dollar expended. The resulting priority guide numbers are provided in Appendix G for those road sections which have identified deficiencies requiring improvements (ranked highest to lowest).

It is noted that the Priority Guide Number is premised on life cycle costing. Improvement needs are typically delayed on those sections that require reconstruction or major rehabilitation because the benefits for dollars spent are generally lower than maintenance candidates. After the relatively good roads are "saved", improvements are directed towards the poorer arterial and collector roads, and then to the local roads in need of major rehabilitation.

7.3 IMPROVEMENT SCHEDULE

7.3.1 Basis for Scheduling

It is recommended that the road improvements be prioritized in accordance with the Priority Guide Number, thus ensuring that the greatest benefits will be achieved for the improvement dollar expended (ie. improvements are implemented in accordance with the cost benefit assessment). This approach is counter to the typical “worst first” approach and seeks to implement improvements aimed at extending the useful life of the road prior to a point at which full reconstruction is required.

Further to this however, it is recommended that that road sections with a very poor condition (ie. PCI < 50) be prioritized for improvement to address the potential for increased maintenance and safety issues, taking into account their corresponding Priority Guide Numbers.

The recommended ranking or ordering of road improvements is provided in Appendix H. It is noted that improvements related to deficient road widths only (ie. widen and resurface only) are not considered as critical as the remaining improvements and thus these should be considered less of a priority, unless combined with another improvement strategy (and thus have been moved to the bottom of ranking list). An annual budget of approximately $2.52M has been assumed in establishing the year of implementation (which is based on the overall value of the 10-year needs and assuming a relatively equal spend each year).

7.3.2 Other Considerations

This study has provided recommendations for the prioritization of road improvements based solely on the existing conditions at the time of the inventory and review. There are a number of additional factors that should also be considered to establish the Township's annual improvement program. This includes consideration for the following:

1. Availability of funds. While a number of road sections have "now" needs, such cannot all be addressed in the first year and there will be carry over the following year.
2. Continuity of construction. If there are several consecutive road sections or several road sections within the same area, these should be considered together to yield maximize cost efficiencies and to reduce construction related impacts to area residents, regardless of the overall ranking.
3. Replacement of infrastructure. Infrastructure renewal/repairs should be considered in conjunction with the road works and vice versa to ensure roads that were recently repaired to not need to be disturbed to replace underground infrastructure.
4. Implications of development. If future development is likely to require road works (or servicing which in turn will require road works, it may be necessary to postpone or accelerate the works.
5. Reconstruction vs resurfacing. While the Priority Guide Number provides an overall order of the road improvement program, further consideration can be given to the timing of preservation and rehabilitation work. In some cases, it may be preferable to defer the full reconstruction of a higher priority road (eg. "let the bad roads fail") in favour of resurfacing work on a lower priority road (eg. "keep the good roads good").

8 Alternative Improvement Approaches

In consideration of the significant costs associated with the identified road improvements, a number of alternative improvement approaches have been considered.

8.1 ALTERNATIVE APPROACHES

Alternative 1: Do Not Consider Road Widenings

Given the limited traffic volumes on the majority of roads and no known operational issues, this alternative maintains the existing road widths and thus there are no road sections identified solely requiring widening and resurfacing.

Alternative 2: Single Lift of Asphalt

As per the employed road standards, 2 lifts of asphalt (40 mm top course and 50 mm base course) have been assumed for all paved roads. Under this alternative scenario, the asphalt standard for local rural and semi-urban roads has been reduced to a single lift of 50 mm. This is reflective of the reduced traffic volumes typical of local roads (2 lifts of asphalt are desired on local urban roads to facilitate the removal and reinstatement of the surface course as a means of improvement).

Alternative 3: Minimum Road Surface Type

Recognizing that many of the Township roads do not warrant a hard surface (based on traffic volumes), an alternative scenario was considered whereby the road surface type was reinstated to meet the minimum standard. In this regard, if a road is currently paved but the volumes only warrant surface treatment, the latter is considered in the road improvements and costing.

8.2 ALTERNATIVE IMPROVEMENT COSTS

The associated improvement costs for the various alternative improvement approaches are summarized in Table 26 (the road sections and road lengths noted are those requiring improvement). Several additional alternatives have been considered, whereby alternative approaches were combined to provide compounded benefits. The “Base Scenario”, as previously presented in Table 25, is also included for ease of reference.

Table 26: Improvement Cost Summary – Alternative Approaches

ALTERNATIVE APPROACH	ROAD SECTIONS		ROAD LENGTH		COST ($M)
	Number	Percent	Kilometres	Percent	
Base Scenario	139	41%	97.4	43%	$25.2
Alternative 1: No Widening	133	39%	94.9	42%	$24.4
Alternative 2: Single Lift Asphalt	139	41%	97.4	43%	$20.9
Alternative 3: Minimum Road Surface	139	41%	97.4	43%	$23.8
Alternatives 1 + 2	133	39%	94.9	42%	$19.9
Alternatives 1 + 3	133	39%	94.9	42%	$22.9
Alternatives 2 + 3	139	41%	97.4	43%	$20.0
Alternatives 1 + 2 + 3	133	39%	94.9	42%	$19.0

In reviewing the alternative improvement strategies, the following are noted:

- not considering road widenings alone (ie. Alternative 1) will yield a savings of $0.8M;
- reducing the depth of asphalt on rural and semi-urban local roads (Alternative 2) will yield a savings of $4.3M;
- reinstating roads to the minimum surface type (Alternative 3) will yield a savings of $1.4M; and
- not considering road widenings alone (ie. Alternative 1) and reducing the depth of asphalt on rural and semi-urban local roads (Alternative 2) will yield a savings of $5.3M.

The maximum cost savings can be achieved through consideration of all of the noted alternative approaches (do not widen roads only for the sake of widening them, one lift of asphalt on rural and semi-urban roads vs two lifts, and reinstate road surfaces to the minimum requirement), amounting to $6.2M.

9 Summary

9.1 ROAD NETWORK

The purpose of the *Township of Cramahe Road Needs Study 2023* is to provide the Township with an updated "road map" to maintaining the road network in good condition. In doing so, the study has:

- provided an inventory and assessment of existing conditions; and
- established the need for road works.

In implementing the recommended improvements, consideration should be given to the priority guide number, which not only reflects the need for the improvement and traffic volumes served by each road section, but also considers the associated costs and prioritizes the works based on the resulting benefit value (ie. the improvement which gives the most benefit for the dollar spent). In conjunction with this, the Township must also consider additional factors in determining the annual road program. Such factors might include external development pressures, continuity of construction, other infrastructure needs and available funds. Where possible, federal and provincial infrastructure programs should be explored as a source of funding, as should the Township's Development Charges.

9.2 STUDY UPDATES

To maintain the *Road Needs Study* and ensure accurate representation of existing conditions, major updates to the study should be undertaken on a 5-year basis.

Appendix A:
Road Inventory Forms

Township of Cramahe — Road Needs Study 2023

IDENTIFICATION — GRAVEL ROADS

Road Name		Section	
From		Inspected By	
To		Inspected On	

ROAD INVENTORY

Length	Platform Width	Surface Width	Shoulder Width	No. of Lanes	Speed Limit	Substandard Curves
m	m	m	m		km/h	horizontal / vertical

Road Environment

	rural		semi-urban		urban				

Sidewalk: even / odd

Drainage

	no ditch		open ditch		storm sewer		sewer & ditch		

Drainage Assessment

	good		fair - minor improvements/maintenance require		poor - major improvements/maintenance requi

Terrain

	non-rocky flat		non-rocky rolling		non-rocky rugged		rocky flat		rocky rolling

Surface Type

	earth/dirt		gravel		surface treated		asphalt		concrete

Shoulder Type

	earth/dirt		gravel		surface treated		asphalt		concrete

Curb Even Side

	no curb		barrier		mountable		asphalt		concrete

Curb Odd Side

	no curb		barrier		mountable		asphalt		concrete

INVENTORY COMMENTS & RECOMMENDATIONS

Township of Cramahe — Road Needs Study 2023

IDENTIFICATION — GRAVEL ROADS

Road Name		Section	
From		Inspected By	
To		Inspected On	

CONDITION EVALUATION

Ride Comfort Rating (RCR) at posted speed		Distress Weight	Severity of Distress (Si)			Density of Distress (Di)			Distress Manifestation Index (DMI)
1 2 3 4 5 6 7 8 9 10 very rough — uncomfortable — smooth & pleasant			Slight	Moderate	Severe	Intermittent < 20%	Frequent 20-50%	Extensive > 50%	
Defects, Deformations & Cracking		**Wi**	1	2	3	1	2	3	
Surface Defects	1 Loose gravel	1.5							
	2 Dust	0.5							
	3 Potholes	2.0							
	4 Breakup	3.0							
Surface Deformations	5 Washboard	1.0							
	6 Rutting	3.0							
	7 Flat / reverse crown	2.0							
	8 Distortion	3.0							

Ride Comfort Rating - RCR		Distress Manifestation Index - DMI		Pavement Condition Index - PCI	

DISTRESS COMMENTS & RECOMMENDATIONS

Township of Cramahe — Road Needs Study 2023

IDENTIFICATION — SURFACE TREATED ROADS

Road Name		Section	
From		Inspected By	
To		Inspected On	

ROAD INVENTORY

Length	Platform Width	Surface Width	Shoulder Width	No. of Lanes	Speed Limit	Substandard Curves
m	m	m	m		km/h	horizontal / vertical

Road Environment

	rural		semi-urban		urban				

Sidewalk: even / odd

Drainage

	no ditch		open ditch		storm sewer		sewer & ditch		

Drainage Assessment

	good		fair - minor improvements/maintenance require		poor - major improvements/maintenance requi

Terrain

	non-rocky flat		non-rocky rolling		non-rocky rugged		rocky flat		rocky rolling

Surface Type

	earth/dirt		gravel		surface treated		asphalt		concrete

Shoulder Type

	earth/dirt		gravel		surface treated		asphalt		concrete

Curb Even Side

	no curb		barrier		mountable		asphalt		concrete

Curb Odd Side

	no curb		barrier		mountable		asphalt		concrete

INVENTORY COMMENTS & RECOMMENDATIONS

Township of Cramahe — Road Needs Study 2023

IDENTIFICATION — SURFACE TREATED ROADS

Road Name		Section	
From		Inspected By	
To		Inspected On	

CONDITION EVALUATION

Ride Comfort Rating (RCR) at posted speed		Distress Weight	Severity of Distress (Si)			Density of Distress (Di)			Distress Manifestation Index (DMI)
1 2 3 4 5 6 7 8 9 10 very rough — uncomfortable — smooth & pleasant			Slight	Moderate	Severe	Intermittent < 20%	Frequent 20-50%	Extensive > 50%	
Defects, Deformations & Cracking		**Wi**	1	2	3	1	2	3	
Surface Defects	1 Loss of cover aggregate	3.0							
	2 Streaking	1.0							
	3 Flushing	2.0							
	4 Potholes	1.0							
	5 Pavement edge break	2.0							
Surface Deformations	6 Rippling	2.0							
	7 Wheel track rutting	3.0							
	8 Distortion	3.0							
Cracking	9 Longitudinal	1.0							
	10 Transverse	0.5							
	11 Pavement edge	1.0							
	12 Alligator	3.0							

Ride Comfort Rating - RCR		**Distress Manifestation Index - DMI**		**Pavement Condition Index - PCI**	

DISTRESS COMMENTS & RECOMMENDATIONS

Township of Cramahe — Road Needs Study 2023

IDENTIFICATION — ASPHALT ROADS

Road Name		Section	
From		Inspected By	
To		Inspected On	

ROAD INVENTORY

Length	Platform Width	Surface Width	Shoulder Width	No. of Lanes	Speed Limit	Substandard Curves
m	m	m	m		km/h	horizontal / vertical

Road Environment

☐ rural	☐ semi-urban	☐ urban	

Sidewalk: even / odd

Drainage

☐ no ditch	☐ open ditch	☐ storm sewer	☐ sewer & ditch	☐

Drainage Assessment

☐ good	☐ fair - minor improvements/maintenance required	☐ poor - major improvements/maintenance required

Terrain

☐ non-rocky flat	☐ non-rocky rolling	☐ non-rocky rugged	☐ rocky flat	☐ rocky rolling

Surface Type

☐ earth/dirt	☐ gravel	☐ surface treated	☐ asphalt	☐ concrete

Shoulder Type

☐ earth/dirt	☐ gravel	☐ surface treated	☐ asphalt	☐ concrete

Curb Even Side

☐ no curb	☐ barrier	☐ mountable	☐ asphalt	☐ concrete

Curb Odd Side

☐ no curb	☐ barrier	☐ mountable	☐ asphalt	☐ concrete

INVENTORY COMMENTS & RECOMMENDATIONS

Township of Cramahe — Road Needs Study 2023

IDENTIFICATION — ASPHALT ROADS

Road Name		Section	
From		Inspected By	
To		Inspected On	

CONDITION EVALUATION

Ride Comfort Rating (RCR) at posted speed		Distress Weight	Severity of Distress (Si)			Density of Distress (Di)			Distress Manifestation Index (DMI)
1 2 3 4 5 6 7 8 9 10 very rough — uncomfortable — smooth & pleasant			Slight	Moderate	Severe	Intermittent < 20%	Frequent 20-50%	Extensive > 50%	
Defects, Deformations & Cracking		**Wi**	1	2	3	1	2	3	
Surface Defects	1 Ravelling	3.0							
	2 Flushing or bleeding	1.5							
	3 Potholes	3.0							
	4 Pavement edge breaks	2.0							
	5 Manholes & catchbasins	1.0							
Surface Deformations	6 Rippling & shoving	1.0							
	7 Wheel track rutting	3.0							
	8 Distortion	3.0							
	9 Utility trenches	1.0							
Cracking	10 Longitudinal	1.0							
	11 Transverse	1.0							
	12 Pavement edge	1.0							
	13 Map	1.0							
	14 Alligator	3.0							

Ride Comfort Rating - RCR		Distress Manifestation Index - DMI		Pavement Condition Index - PCI	

DISTRESS COMMENTS & RECOMMENDATIONS

Appendix B: Traffic Data

Road Section Identification				Traffic Details									
Asset ID	Road Name	From	To	Capacity (vpd)	2023 Horizon			2028 Horizon		2033 Horizon		2043 Horizon	
					Daily Volume	Volume to Capacity	Level of Service	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity
906	Alfred Street	Elgin Street South	Kensington Street	8000	200	3%	A	250	3%	250	3%	250	3%
911.1	Arthur Street	Baldwin Place	Cortland Crescent	8000	200	3%	A	250	3%	250	3%	250	3%
911.2	Arthur Street	Cortland Crescent	Cortland Crescent	8000	200	3%	A	250	3%	250	3%	250	3%
911.3	Arthur Street	Cortland Crescent	Division Street	8000	200	3%	A	250	3%	250	3%	250	3%
909.1	Arthur Street	Division Street	Thornlea Road	8000	200	3%	A	250	3%	250	3%	250	3%
909.2	Arthur Street	Thornlea Road	Victoria Street	8000	200	3%	A	250	3%	250	3%	250	3%
845	Arthur's Lane	Purdy Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
844.1	Bailey Drive (North)	Little Lake Road	300m S of Little Lake Road	8000	49	1%	A	49	1%	49	1%	49	1%
844.2	Bailey Drive (South)	Little Lake Road	300m N of Little Lake Road	8000	49	1%	A	49	1%	49	1%	49	1%
2548	Baldwin Place	Ontario Street	Arthur Street	8000	250	3%	A	300	4%	300	4%	350	4%
2547	Baldwin Place	Arthur Street	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
2558.1	Barlow Road	Jones Road	Cowie Road	8000	49	1%	A	49	1%	49	1%	49	1%
2558.2	Barlow Road	Cowie Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
2325	Barnes Road	Beach Drive	County Road 2	8000	200	3%	A	250	3%	250	3%	250	3%
2328	Beach Drive	Union Road	Hunt Road	8000	200	3%	A	250	3%	250	3%	250	3%
2333	Beach Drive	Hunt Road	Barnes Road	8000	200	3%	A	250	3%	250	3%	250	3%
783	Begg Road	County Road 27	1420m S of Cty Rd 27 (to curve)	8000	49	1%	A	49	1%	49	1%	49	1%
852	Bellamy Road	County Road 2	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
1175	Blyth Park Road	County Road 2	CN Cross Road	8000	200	3%	A	250	3%	250	3%	250	3%
1177	Blyth Park Road	CN Cross Road	Simpson Road	8000	49	1%	A	49	1%	49	1%	49	1%
855	Blyth Park Road	Simpson Road	End of Road	8000	200	3%	A	250	3%	250	3%	250	3%
2373	Bonnett Road	Tobacco Road	County Road 25	8000	100	1%	A	150	2%	150	2%	150	2%
2506	Branscombe Road	County Road 2	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
1139.1	Brighton-Cramahe Boundary Road	County Road 2	Hillview Road	8000	200	3%	A	250	3%	250	3%	250	3%
1139.2	Brighton-Cramahe Boundary Road	Hillview Road	Little Lake Road	8000	200	3%	A	250	3%	250	3%	250	3%

Road Section Identification				Traffic Details									
Asset ID	Road Name	From	To	Capacity (vpd)	2023 Horizon			2028 Horizon		2033 Horizon		2043 Horizon	
					Daily Volume	Volume to Capacity	Level of Service	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity
1106	Broomfield Road	Trottman Road	County Road 21	8000	200	3%	A	250	3%	250	3%	250	3%
829	Burbridge Road	Telephone Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
2529.1	Burnham Avenue	Church Street	Cedar Street E	8000	200	3%	A	250	3%	250	3%	250	3%
2529.2	Burnham Avenue	Cedar Street E	Park Street E	8000	200	3%	A	250	3%	250	3%	250	3%
777.1	Campbell Road	Morganston Road	Stoney Lonesome Road	8000	200	3%	A	250	3%	250	3%	250	3%
777.2	Campbell Road	Stoney Lonesome Road	Clarke Road	8000	200	3%	A	250	3%	250	3%	250	3%
778.1	Campbell Road	Clarke Road	Mitchell Road	8000	100	1%	A	150	2%	150	2%	150	2%
778.2	Campbell Road	Mitchell Road	Cramahe Township Boundary	8000	200	3%	A	250	3%	250	3%	250	3%
773	Carr Road	County Road 27	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
842	Cedar Lane	Little Lake Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
917	Cedar Street	Mill Street	County Road 25	8000	200	3%	A	250	3%	250	3%	250	3%
2530	Cedar Street (Colborne)	Percy Street	Burnham Avenue	8000	200	3%	A	250	3%	250	3%	250	3%
2258	Cemetery Road	Country Road 25	Public School Access	8000	49	1%	A	49	1%	49	1%	49	1%
1337	Cemetery Road	Public School Access	200 m north of School Access	8000	49	1%	A	49	1%	49	1%	49	1%
827	Chapman Road	Trottman Road	Telephone Road	8000	100	1%	A	150	2%	150	2%	150	2%
926.1	Church Street E	Percy Street	Maybee Lane	8000	400	5%	A	450	6%	450	6%	500	6%
926.2	Church Street E	Maybee Lane	Burnham Avenue	8000	400	5%	A	450	6%	450	6%	500	6%
926.3	Church Street E	Burnham Avenue	Victory Street	8000	400	5%	A	450	6%	450	6%	500	6%
929	Church Street E	Victory Street	Elgin Street N	8000	400	5%	A	450	6%	450	6%	500	6%
919	Church Street W	Ontario Street	Toronto Street	8000	400	5%	A	450	6%	450	6%	500	6%
923	Church Street W	Toronto Street	Percy Street	8000	400	5%	A	450	6%	450	6%	500	6%
775	Clarke Road	County Road 25	Campbell Road	8000	200	3%	A	250	3%	250	3%	250	3%
1023.1	Clarkson Road	Dunbar Road	Hagarty Road	8000	100	1%	A	150	2%	150	2%	150	2%
1023.2	Clarkson Road	Hagarty Road	Twp Boundary	8000	100	1%	A	150	2%	150	2%	150	2%
854	CN Cross Road	Peters Road	Blythe Park Road	8000	49	1%	A	49	1%	49	1%	49	1%

Road Section Identification				Traffic Details									
Asset ID	Road Name	From	To	Capacity (vpd)	2023 Horizon			2028 Horizon		2033 Horizon		2043 Horizon	
					Daily Volume	Volume to Capacity	Level of Service	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity
835	Cochrane Road	Little Lake Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
2502.1	Colton Street	County Road 2	Simpson Road	8000	49	1%	A	49	1%	49	1%	49	1%
2502.2	Colton Street	Simpson Road	Victoria Beach Road	8000	200	3%	A	250	3%	250	3%	250	3%
2503	Colton Street	Victoria Beach Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
796	Combview Road (laneway)	Stoney Lonesome Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
780	Concession Road 1 W	Mitchell Road	Stonehaven Road	8000	200	3%	A	250	3%	250	3%	250	3%
932	Cortland Crescent	Arthur Street	Arthur Street	8000	100	1%	A	150	2%	150	2%	150	2%
2336	Cowie Road	County Road 21	Dingman Road	8000	200	3%	A	250	3%	250	3%	250	3%
2928.1	Cowie Road	Dingman Road	Haynes Road	8000	200	3%	A	250	3%	250	3%	250	3%
2928.2	Cowie Road	Haynes Road	Barlow Road	8000	200	3%	A	250	3%	250	3%	250	3%
1131.1	Crandall Road	Honey Road	Dunk Road	8000	200	3%	A	250	3%	250	3%	250	3%
1131.2	Crandall Road	Dunk Road	Dean Road	8000	200	3%	A	250	3%	250	3%	250	3%
1131.3	Crandall Road	Dean Road	Lake Road	8000	200	3%	A	250	3%	250	3%	250	3%
937	Creek Street	Division Street	Victoria Street	8000	200	3%	A	250	3%	250	3%	250	3%
822	Dale Road	Penryn Road	County Road 21	8000	200	3%	A	250	3%	250	3%	250	3%
769.1	Darling Road	County Road 27	O'Grady Road	8000	200	3%	A	250	3%	250	3%	250	3%
769.2	Darling Road	O'Grady Road	Pine Grove Road	8000	49	1%	A	49	1%	49	1%	49	1%
912.1	Darling Road	Pine Grove Road	Hutchinson Road	8000	200	3%	A	250	3%	250	3%	250	3%
912.2	Darling Road	Hutchinson Road	Cramahe Township Boundary	8000	200	3%	A	250	3%	250	3%	250	3%
789	Dawson Road	Morganston Road	Red Cloud School Road	8000	100	1%	A	150	2%	150	2%	150	2%
790	Dawson Road	Red Cloud School Road	633 Dawson Road	8000	100	1%	A	150	2%	150	2%	150	2%
3087	Dawson Road	633 Dawson Road	Cramahe Township Boundary	8000	100	1%	A	150	2%	150	2%	150	2%
2556	Dean Road	Crandall Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
824	Deele Road	Telephone Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
2997	Dekseyer Road	300 m west of County Road 25	Neil McGreggor Road	8000	100	1%	A	150	2%	150	2%	150	2%

Road Section Identification				Traffic Details									
Asset ID	Road Name	From	To	Capacity (vpd)	2023 Horizon			2028 Horizon		2033 Horizon		2043 Horizon	
					Daily Volume	Volume to Capacity	Level of Service	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity
2545	Depaepe Court	Gould Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
2308	Dingman Road	County Road 25	Cowie Road	8000	200	3%	A	250	3%	250	3%	250	3%
2307.1	Dingman Road	Cowie Road	Valley Road	8000	200	3%	A	250	3%	250	3%	250	3%
2307.2	Dingman Road	Valley Road	Tobacco Road	8000	200	3%	A	250	3%	250	3%	250	3%
794	Dingwall Road	Mount Pleasant	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
2559	Dunbar Road	Jakobi Road	Clarkson Road	8000	200	3%	A	250	3%	250	3%	250	3%
808	Dunbar Road	Clarkson Road	Cramahe Township Boundary	8000	200	3%	A	250	3%	250	3%	250	3%
2551	Dunk Road	Crandall Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
2265	Durham Street N	King Street E	Scott Street	12000	400	3%	A	450	4%	500	4%	600	5%
2595	Durham Street N	Scott Street	700 m north of Scott Street	12000	575	5%	A	650	5%	750	6%	900	8%
2326	Durham Street N	700 m north of Scott Street	Purdy Road	12000	575	5%	A	650	5%	750	6%	900	8%
2610.1	Durham Street S	King Street E	Streamside Drive	12000	400	3%	A	450	4%	500	4%	600	5%
2610.2	Durham Street S	Streamside Drive	Prairie Run Road	12000	400	3%	A	450	4%	500	4%	600	5%
2941	Durham Street S	Prairie Run Road	Victoria Beach Road	12000	400	3%	A	450	4%	500	4%	600	5%
2944	Durham Street S	Victoria Beach Road	End of Road	12000	49	0%	A	49	0%	49	0%	49	0%
1203	Earl Street	Division Street	Victoria Street	8000	200	3%	A	250	3%	250	3%	250	3%
1209.1	Elgin Street N	Park Street E	Industrial Park Road	8000	200	3%	A	250	3%	250	3%	250	3%
1209.2	Elgin Street N	Industrial Park Road	Purdy Road	8000	200	3%	A	250	3%	250	3%	250	3%
953	Elgin Street N	King Street East	Church Street East	8000	200	3%	A	250	3%	250	3%	250	3%
955.1	Elgin Street S	King Street E	Simmons Street	8000	200	3%	A	250	3%	250	3%	250	3%
955.2	Elgin Street S	Simmons Street	Alfred Street	8000	200	3%	A	250	3%	250	3%	250	3%
2262	Elgin Street S	Alfred Street	End of Road	8000	200	3%	A	250	3%	250	3%	250	3%
821	Feeney Road	Penryn Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
1149.1	Fiddick Road	Little Lake Road	Old Rail Road	8000	200	3%	A	250	3%	250	3%	250	3%
1149.2	Fiddick Road	Old Rail Road	County Road 2	8000	200	3%	A	250	3%	250	3%	250	3%

Road Section Identification				Traffic Details									
Asset ID	Road Name	From	To	Capacity (vpd)	2023 Horizon			2028 Horizon		2033 Horizon		2043 Horizon	
					Daily Volume	Volume to Capacity	Level of Service	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity
819	Gillespie Road	Penryn Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
957.1	Gould Road	County Road 22	Depaepe Court	8000	49	1%	A	49	1%	49	1%	49	1%
957.2	Gould Road	Depaepe Court	Old Percy Road	8000	200	3%	A	250	3%	250	3%	250	3%
957.3	Gould Road	Old Percy Road	County Road 22	8000	200	3%	A	250	3%	250	3%	250	3%
1012	Haynes Road	County Road 25	Sheppard Lane	8000	200	3%	A	250	3%	250	3%	250	3%
2335	Haynes Road	Sheppard Lane	Cowie Road	8000	200	3%	A	250	3%	250	3%	250	3%
2603	Herley Road	Telephone Road	Honey Road	8000	200	3%	A	250	3%	250	3%	250	3%
1137	Herley Road	Honey Road	Purdy Road	8000	200	3%	A	250	3%	250	3%	250	3%
1135.1	Honey Road	Herley Road	Samis Road	8000	200	3%	A	250	3%	250	3%	250	3%
1135.2	Honey Road	Samis Road	Crandall Road	8000	200	3%	A	250	3%	250	3%	250	3%
1135.3	Honey Road	Crandall Road	Penny Lane	8000	200	3%	A	250	3%	250	3%	250	3%
1135.4	Honey Road	Penny Lane	Telephone Road	8000	200	3%	A	250	3%	250	3%	250	3%
2330	Hunt Road	Beach Drive	County Road 2	8000	200	3%	A	250	3%	250	3%	250	3%
798	Huycke Road	County Road 25	Pinewood School Road	8000	100	1%	A	150	2%	150	2%	150	2%
826	Ibbotson Road	Telephone Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
959	Industrial Park Road	Purdy Road	Elgin Street North	8000	400	5%	A	450	6%	450	6%	500	6%
2110	Industrial Park Road N	Purdy Road	1st Cul-de-Sac	8000	200	3%	A	250	3%	250	3%	250	3%
2323	Industrial Park Road N	1st Cul-de-Sac	2nd Cul-de-Sac	8000	200	3%	A	250	3%	250	3%	250	3%
811	Inglis Road	Old Shelter Valley	Cramahe Township Boundary	8000	200	3%	A	250	3%	250	3%	250	3%
1159	Jackson Drive	Purdy Road	County Road 2	8000	200	3%	A	250	3%	250	3%	250	3%
1017.1	Jakobi Road	County Road 22	Moore Road	8000	400	5%	A	450	6%	450	6%	500	6%
1017.2	Jakobi Road	Moore Road	Morganston Road	8000	400	5%	A	450	6%	450	6%	500	6%
1017.3	Jakobi Road	Morganston Road	Dunbar Road	8000	400	5%	A	450	6%	450	6%	500	6%
961	Jane's Court	King Street East	End of Road	8000	200	3%	A	250	3%	250	3%	250	3%
2931	Jones Road	County Road 25	Barlow Road	8000	100	1%	A	150	2%	150	2%	150	2%

Road Section Identification				Traffic Details									
Asset ID	Road Name	From	To	Capacity (vpd)	2023 Horizon			2028 Horizon		2033 Horizon		2043 Horizon	
					Daily Volume	Volume to Capacity	Level of Service	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity
3032	Keeler Court (George Court)	Victoria Street	90 m east of Victoria Street (bend)	8000	200	3%	A	250	3%	250	3%	250	3%
3044	Keeler Court (George Court)	90 m east of Victoria Street (bend)	Cul-de-Sac	8000	200	3%	A	250	3%	250	3%	250	3%
1161	Keeler Road	County Road 25	County Road 25	8000	49	1%	A	49	1%	49	1%	49	1%
2557	Kelly Drive (Laneway)	Morganston Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
1163	Kelwood Lane	County Road 25	105 Kelwood Lane	8000	200	3%	A	250	3%	250	3%	250	3%
965	Kelwood Lane	105 Kelwood Lane	Cul-de-Sac	8000	200	3%	A	250	3%	250	3%	250	3%
969	Kensington Avenue	King Street E	Alfred Street	8000	200	3%	A	250	3%	250	3%	250	3%
971.2	King Street E	Percy Street	Maybee Lane	16000	4700	29%	A	5200	33%	5750	36%	7000	44%
971.3	King Street E	Maybee Lane	Victory Street	16000	4700	29%	A	5200	33%	5750	36%	7000	44%
971.4	King Street E	Victory Street	Victoria Street	16000	4700	29%	A	5200	33%	5750	36%	7000	44%
975	King Street E	Victoria Street	Elgin Street	16000	4700	29%	A	5200	33%	5750	36%	7000	44%
977	King Street E	Elgin Street	Kensington Avenue	16000	4700	29%	A	5200	33%	5750	36%	7000	44%
980	King Street E	Kensington Avenue	Durham Street South	16000	4700	29%	A	5200	33%	5750	36%	7000	44%
983	King Street E	Durham Street South	Janes Court	16000	4700	29%	A	5200	33%	5750	36%	7000	44%
985.1	King Street E	Janes Court	Parliament Street	16000	4700	29%	A	5200	33%	5750	36%	7000	44%
985.2	King Street E	Parliament Street	Spencer Street	16000	4700	29%	A	5200	33%	5750	36%	7000	44%
989	King Street E	Spencer Street	Colton Street	16000	4700	29%	A	5200	33%	5750	36%	7000	44%
992	King Street W	Ontario Street	Toronto Street	8000	400	5%	A	450	6%	450	6%	500	6%
NEW	King Street W	Toronto Street	Division Street	16000	400	3%	A	450	3%	500	3%	600	4%
971.1	King Street W	Division Street	Percy Street	16000	400	3%	A	450	3%	500	3%	600	4%
1133.1	Lake Road	Telephone Road	Crandall Road	8000	400	5%	A	450	6%	450	6%	500	6%
1133.2	Lake Road	Crandall Road	McDonald Road	8000	400	5%	A	450	6%	450	6%	500	6%
2889	Lake Road	McDonald Road	Pine Tree Lane	8000	400	5%	A	450	6%	450	6%	500	6%
2883	Lake Road	Pine Tree Lane	Little Lake Road	8000	400	5%	A	450	6%	450	6%	500	6%
1171	Lakeshore Road	Union Road	Cramahe Townahip Boundary (Kelly	8000	200	3%	A	250	3%	250	3%	250	3%

Road Section Identification				Traffic Details									
Asset ID	Road Name	From	To	Capacity (vpd)	2023 Horizon			2028 Horizon		2033 Horizon		2043 Horizon	
					Daily Volume	Volume to Capacity	Level of Service	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity
2552	Lee Lane (Laneway)	Telephone Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
2589.1	Little Lake Road	County Road 2	Bailey Drive	8000	400	5%	A	450	6%	450	6%	500	6%
2589.2	Little Lake Road	Bailey Drive	Bailey Drive	8000	1000	13%	A	1100	14%	1150	14%	1250	16%
2589.3	Little Lake Road	Bailey Drive	Van Wicklin Lane	8000	400	5%	A	450	6%	450	6%	500	6%
2589.4	Little Lake Road	Van Wicklin Lane	Van Wicklin Lane	8000	400	5%	A	450	6%	450	6%	500	6%
2589.5	Little Lake Road	Van Wicklin Lane	Cedar Lane	8000	400	5%	A	450	6%	450	6%	500	6%
2589.6	Little Lake Road	Cedar Lane	Purdy Road	8000	400	5%	A	450	6%	450	6%	500	6%
995	Little Lake Road	Purdy Road	Lake Road	8000	1000	13%	A	1100	14%	1150	14%	1250	16%
1143.1	Little Lake Road	Lake Road	Ventress Road	8000	1000	13%	A	1100	14%	1150	14%	1250	16%
1143.2	Little Lake Road	Ventress Road	Reddick Road	8000	1000	13%	A	1100	14%	1150	14%	1250	16%
1143.3	Little Lake Road	Reddick Road	Trenear Road North	8000	1000	13%	A	1100	14%	1150	14%	1250	16%
1141.1	Little Lake Road	Trenear Road North	Trenear Road	8000	1000	13%	A	1100	14%	1150	14%	1250	16%
1141.2	Little Lake Road	Trenear Road	Cochrane Road	8000	400	5%	A	450	6%	450	6%	500	6%
1141.3	Little Lake Road	Cochrane Road	Fiddick Road	8000	400	5%	A	450	6%	450	6%	500	6%
1141.4	Little Lake Road	Fiddick Road	Twp Boundary	8000	400	5%	A	450	6%	450	6%	500	6%
817	Maple Grove Road	County Road 21	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
774	Massey Lane	County Road 27	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
999	Maybee Lane	King Street East	Church Street East	4000	49	1%	A	49	1%	49	1%	49	1%
NEW	Mensen Road	Penryn Road	Twp Boundary (Turn Around)	8000	49	1%	A	49	1%	49	1%	49	1%
1001.1	Mill Street	County Road 25	Cedar Street	8000	200	3%	A	250	3%	250	3%	250	3%
1001.2	Mill Street	Cedar Street	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
781.1	Mitchell Road	Concession Road 1	Red Cloud School Road	8000	49	1%	A	49	1%	49	1%	49	1%
781.2	Mitchell Road	Red Cloud School Road	920 m south of Red Cloud School R	8000	49	1%	A	49	1%	49	1%	49	1%
933.1	Mitchell Road	1350 m south of Red Cloud School	Stonehaven Road	8000	49	1%	A	49	1%	49	1%	49	1%
933.2	Mitchell Road	Stonehaven Road	Campbell Road	8000	49	1%	A	49	1%	49	1%	49	1%

Road Section Identification					Traffic Details								
Asset ID	Road Name	From	To	Capacity (vpd)	2023 Horizon			2028 Horizon		2033 Horizon		2043 Horizon	
					Daily Volume	Volume to Capacity	Level of Service	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity
NEW	Mitchell Road (UNMAINTAINED)	920 m south of Red Cloud School R	1350 m south of Red Cloud School	8000	49	1%	A	49	1%	49	1%	49	1%
809	Moore Road	Jakobi Road	Cramahe Township Boundary	8000	200	3%	A	250	3%	250	3%	250	3%
935	Morganston Road	Jakobi Road	Dawson Road	8000	200	3%	A	250	3%	250	3%	250	3%
981	Morganston Road	Dawson Road	Tait Road	8000	200	3%	A	250	3%	250	3%	250	3%
2306.1	Morganston Road	Tait Road	Kelly Drive	8000	200	3%	A	250	3%	250	3%	250	3%
2306.2	Morganston Road	Kelly Drive	Mount Pleasant Road	8000	200	3%	A	250	3%	250	3%	250	3%
987.1	Morganston Road	Mount Pleasant Road	Campbell Road	8000	200	3%	A	250	3%	250	3%	250	3%
987.2	Morganston Road	Campbell Road	Stoney Lonesome Road	8000	200	3%	A	250	3%	250	3%	250	3%
987.3	Morganston Road	Stoney Lonesome Road	County Road 25	8000	200	3%	A	250	3%	250	3%	250	3%
993	Mount Pleasant Road	County Road 22	Tait Road	8000	200	3%	A	250	3%	250	3%	250	3%
998.1	Mount Pleasant Road	Tait Road	Sunny Hill Drive	8000	200	3%	A	250	3%	250	3%	250	3%
998.2	Mount Pleasant Road	Sunny Hill Drive	Dingwall Road	8000	200	3%	A	250	3%	250	3%	250	3%
998.3	Mount Pleasant Road	Dingwall Road	Morganston Road	8000	200	3%	A	250	3%	250	3%	250	3%
825	Mutton Road	Telephone Road	County Road 21	8000	100	1%	A	150	2%	150	2%	150	2%
812	Neil McGregor Road	Pipeline Road	935m S of Pipeline Road	8000	49	1%	A	49	1%	49	1%	49	1%
1003	North Street	Victoria Street	Division Street	8000	100	1%	A	150	2%	150	2%	150	2%
1008	Norton Lane	Percy Street	Toronto Street	4000	100	3%	A	150	4%	150	4%	150	4%
1013.1	Norway Street	Pine Street	County Road 25	8000	200	3%	A	250	3%	250	3%	250	3%
1013.2	Norway Street	County Road 25	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
1016	Oak Street	County Road 25	Pine Street	8000	200	3%	A	250	3%	250	3%	250	3%
2550	Oak Street	County Road 25	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
770	O'Grady Road	Darling Road	County Road 27	8000	100	1%	A	150	2%	150	2%	150	2%
2894	Old Percy Road (Castleton)	Gould Road	Spring Street	8000	200	3%	A	250	3%	250	3%	250	3%
2897	Old Percy Road (Castleton)	Spring St	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
2561	Old Percy Road (Castleton)	Old Shelter Valley Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%

Road Section Identification				Traffic Details									
Asset ID	Road Name	From	To	Capacity (vpd)	2023 Horizon			2028 Horizon		2033 Horizon		2043 Horizon	
					Daily Volume	Volume to Capacity	Level of Service	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity
1207	Old Percy Road (Colborne)	Toronto Street	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
1151	Old Rail Road	Fiddick Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
1094.1	Old Shelter Valley Road	County Road 25	Old Percy Road	8000	200	3%	A	250	3%	250	3%	250	3%
1094.2	Old Shelter Valley Road	Old Percy Road	Inglis Road	8000	200	3%	A	250	3%	250	3%	250	3%
1094.3	Old Shelter Valley Road	Inglis Road	Pipeline Road	8000	200	3%	A	250	3%	250	3%	250	3%
2553	Old Shelter Valley Road	Pipeline Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
846	Old Wharf Road	County Road 31	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
2228	Ontario Street	County Road 2	Robertson Street	8000	400	5%	A	450	6%	450	6%	500	6%
1025.1	Ontario Street	Robertson Street	Church Street	8000	400	5%	A	450	6%	450	6%	500	6%
1025.2	Ontario Street	Church Street	King Street W	8000	400	5%	A	450	6%	450	6%	500	6%
1029	Ontario Street	King Street W	200 m north of Baldwin Place	8000	400	5%	A	450	6%	450	6%	500	6%
NEW	Ontario Street	200 m north of Baldwin Place	Baldwin Place	8000	400	5%	A	450	6%	450	6%	500	6%
1212	Ontario Street	Baldwin Place	Earl Street	8000	400	5%	A	450	6%	450	6%	500	6%
1147.1	Orchard Road	County Road 25	Big Apple Drive	8000	700	9%	A	750	9%	800	10%	900	11%
1147.2	Orchard Road	Big Apple Drive	Cramahe Township Boundary	8000	400	5%	A	450	6%	450	6%	500	6%
2226	Park Road	County Road 22	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
2531.1	Park Street E	Percy Street	Burnham Avenue	8000	400	5%	A	450	6%	450	6%	500	6%
2531.2	Park Street E	Burnham Avenue	Elgin Street N	8000	400	5%	A	450	6%	450	6%	500	6%
1035	Park Street W	Toronto Street	Percy Street	8000	200	3%	A	250	3%	250	3%	250	3%
2263	Parliament Street	King Street E	Scott Street	8000	200	3%	A	250	3%	250	3%	250	3%
1039	Parliament Street	Scott Street	560m N of Scott Street	8000	200	3%	A	250	3%	250	3%	250	3%
1199	Parliament Street	560m N of Scott Street	Purdy Road	8000	200	3%	A	250	3%	250	3%	250	3%
802.1	Parsons Road	County Road 25	Pinewood School Road	8000	100	1%	A	150	2%	150	2%	150	2%
802.2	Parsons Road	Pinewood School Road	150m S of Pinewood School Road	8000	49	1%	A	49	1%	49	1%	49	1%
1157	Peacock Lane	County Road 2	County Road 2	8000	49	1%	A	49	1%	49	1%	49	1%

Road Section Identification				Traffic Details									
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					Daily Volume	Volume to Capacity	Level of Service	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity
2225	Penny Lane	Honey Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
2375.1	Penryn Road	Tobacco Road	Wilce Road	8000	200	3%	A	250	3%	250	3%	250	3%
2375.2	Penryn Road	Wilce Road	Feeney Road	8000	200	3%	A	250	3%	250	3%	250	3%
2375.3	Penryn Road	Feeney Road	Shiloh Road	8000	200	3%	A	250	3%	250	3%	250	3%
2375.4	Penryn Road	Shiloh Road	Gillespie Road	8000	200	3%	A	250	3%	250	3%	250	3%
2375.5	Penryn Road	Gillespie Road	Dale Road	8000	200	3%	A	250	3%	250	3%	250	3%
2375.6	Penryn Road	Dale Road	Mensen Road	8000	200	3%	A	250	3%	250	3%	250	3%
1173	Peters Road	County Road 2	CN Cross Road	8000	49	1%	A	49	1%	49	1%	49	1%
2291	Peters Road	CN Cross Road	End of Road	8000	200	3%	A	250	3%	250	3%	250	3%
804	Phasey Road	County Road 25	End of Road	8000	200	3%	A	250	3%	250	3%	250	3%
771.1	Phillips Road	County Road 27	Hardy Lane	8000	49	1%	A	49	1%	49	1%	49	1%
771.2	Phillips Road	Hardy Lane	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
900	Pine Grove Road	County Road 25	Darling Road	8000	200	3%	A	250	3%	250	3%	250	3%
1049.1	Pine Street	County Road 22	Norway Street	8000	200	3%	A	250	3%	250	3%	250	3%
1049.2	Pine Street	Norway Street	Oak Street	8000	200	3%	A	250	3%	250	3%	250	3%
1049.3	Pine Street	Oak Street	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
832	Pine Tree Lane	Lake Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
800	Pinewood School Road	Parsons Road	Tobacco Road	8000	100	1%	A	150	2%	150	2%	150	2%
801.1	Pinewood School Road	Tobacco Road	Huycke Road	8000	100	1%	A	150	2%	150	2%	150	2%
801.2	Pinewood School Road	Huycke Road	Twp Boundary	8000	100	1%	A	150	2%	150	2%	150	2%
2331	Pipeline Road	County Road 25	Old Shelter Valley Road	8000	200	3%	A	250	3%	250	3%	250	3%
2560	Pipeline Road	Old Shelter Valley Road	125 m west of Old Shelter Valley Rc	8000	200	3%	A	250	3%	250	3%	250	3%
2625	Pipeline Road	125 m west of Old Shelter Valley Rc	Neil McGregor Road	8000	200	3%	A	250	3%	250	3%	250	3%
818	Pogue Road	County Road 21	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
2267.1	Purdy Road	County Road 25	Industrial Park Road	8000	1800	23%	A	1900	24%	2000	25%	2200	28%

Road Section Identification				Traffic Details									
Asset ID	Road Name	From	To	Capacity (vpd)	2023 Horizon			2028 Horizon		2033 Horizon		2043 Horizon	
					Daily Volume	Volume to Capacity	Level of Service	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity
2267.2	Purdy Road	Industrial Park Road	Elgin Street N	8000	1800	23%	A	1900	24%	2000	25%	2200	28%
2267.3	Purdy Road	Elgin Street N	Durham Street N	8000	1800	23%	A	1900	24%	2000	25%	2200	28%
2376.1	Purdy Road	Durham Street N	Parliament Street	8000	1800	23%	A	1900	24%	2000	25%	2200	28%
2376.2	Purdy Road	Parliament Street	Arthurs Lane	8000	1700	21%	A	1800	23%	1900	24%	2100	26%
2376.3	Purdy Road	Arthurs Lane	Jackson Drive	8000	1800	23%	A	1900	24%	2000	25%	2200	28%
2376.4	Purdy Road	Jackson Drive	Little Lake Road	8000	1800	23%	A	1900	24%	2000	25%	2200	28%
785	Red Cloud School Road	Dawson Road	Smith Road	8000	100	1%	A	150	2%	150	2%	150	2%
786	Red Cloud School Road	Smith Road	Mitchell Road	8000	100	1%	A	150	2%	150	2%	150	2%
833	Reddick Road	Little Lake Road	Private Road Section	8000	200	3%	A	250	3%	250	3%	250	3%
NEW	Riley Road	Moore Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
1057	Robertson Street	Toronto Street	Ontario Street	8000	400	5%	A	450	6%	450	6%	500	6%
1059	Rotary Centennial Drive	Division Street	Parking Lot	8000	200	3%	A	250	3%	250	3%	250	3%
830.1	Samis Road	Telephone Road	200 m south of Telephone Road	8000	49	1%	A	49	1%	49	1%	49	1%
830.3	Samis Road	250 m north of Honey Road	Honey Road	8000	49	1%	A	49	1%	49	1%	49	1%
830.2	Samis Road (UNMAINTAINED)	200 m south of Telephone Road	250 m north of Honey Road	8000	49	1%	A	49	1%	49	1%	49	1%
1195	Scott Street	Durham Street N	Parliament Street	8000	200	3%	A	250	3%	250	3%	250	3%
2555	Sheppard Lane (Laneway)	Haynes Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
1104	Shiloh Road	County Road 21	Penryn Road	8000	200	3%	A	250	3%	250	3%	250	3%
1061	Simmons Street	Elgin Street South	Victoria Street	8000	200	3%	A	250	3%	250	3%	250	3%
1179	Simpson Road	Blythe Park Road	Colton Street	8000	200	3%	A	250	3%	250	3%	250	3%
787	Smith Road	Red Cloud School Road	Cramahe Township Boundary	8000	49	1%	A	49	1%	49	1%	49	1%
2606	Spencer Street	Parliament Street	17 Spencer Street	8000	200	3%	A	250	3%	250	3%	250	3%
2604	Spencer Street	17 Spencer Street	King Street E	8000	200	3%	A	250	3%	250	3%	250	3%
2900	Spring Street	Old Percy Road	Cty Rd 25	8000	200	3%	A	250	3%	250	3%	250	3%
779	Stonehaven Road	Concession Road 1	Mitchell Road	8000	49	1%	A	49	1%	49	1%	49	1%

Road Section Identification				Traffic Details									
Asset ID	Road Name	From	To	Capacity (vpd)	2023 Horizon			2028 Horizon		2033 Horizon		2043 Horizon	
					Daily Volume	Volume to Capacity	Level of Service	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity
795.1	Stoney Lonesome Road	County Road 25	Combview Road	8000	200	3%	A	250	3%	250	3%	250	3%
795.2	Stoney Lonesome Road	Combview Road	Morganston Road	8000	200	3%	A	250	3%	250	3%	250	3%
795.3	Stoney Lonesome Road	Morganston Road	Campbell Road	8000	200	3%	A	250	3%	250	3%	250	3%
1065	Streamside Drive	Durham Street South	410m W of Durham Street South	8000	200	3%	A	250	3%	250	3%	250	3%
NEW	Streamside Drive	410m W of Durham Street South	Lillys Court	8000	200	3%	A	250	3%	250	3%	250	3%
793	Sunny Hill Drive	Mount Pleasant Road	370m S of Mount Pleasant Road	8000	49	1%	A	49	1%	49	1%	49	1%
792	Tait Road	Mount Pleasant Road	Morganston Road	8000	49	1%	A	49	1%	49	1%	49	1%
791	Tait Road	Morganston Road	200 m north of Morganston Road	4000	49	1%	A	49	1%	49	1%	49	1%
2892.1	Telephone Road	County Road 25	Lee Lane	8000	425	5%	A	450	6%	500	6%	550	7%
2892.2	Telephone Road	Lee Lane	Herley Road	8000	425	5%	A	450	6%	500	6%	550	7%
1112.1	Telephone Road	Herley Road	Burbridge Road	8000	100	1%	A	150	2%	150	2%	150	2%
1112.2	Telephone Road	Burbridge Road	Samis Road	8000	425	5%	A	450	6%	500	6%	550	7%
1112.3	Telephone Road	Samis Road	Walker Road	8000	425	5%	A	450	6%	500	6%	550	7%
1113.1	Telephone Road	Walker Road	Chapman Road	8000	425	5%	A	450	6%	500	6%	550	7%
1113.2	Telephone Road	Chapman Road	Honey Road	8000	425	5%	A	450	6%	500	6%	550	7%
1113.3	Telephone Road	Honey Road	Trottman Road	8000	425	5%	A	450	6%	500	6%	550	7%
1113.4	Telephone Road	Trottman Road	Mutton Road	8000	425	5%	A	450	6%	500	6%	550	7%
1113.5	Telephone Road	Mutton Road	Lake Road	8000	425	5%	A	450	6%	500	6%	550	7%
1115.1	Telephone Road	Lake Road	Deele Road	8000	425	5%	A	450	6%	500	6%	550	7%
1115.2	Telephone Road	Deele Road	Ibbotson Road	8000	425	5%	A	450	6%	500	6%	550	7%
1115.3	Telephone Road	Ibbotson Road	Waites Road	8000	425	5%	A	450	6%	500	6%	550	7%
1110	Telephone Road West	Twp Boundary	County Road 25	8000	425	5%	A	450	6%	500	6%	550	7%
1067	Thornlea Road	Arthur Street	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
1005	Tobacco Road	Dingman Road	Pinewood School Road	8000	200	3%	A	250	3%	250	3%	250	3%
1009.1	Tobacco Road	Pinewood School Road	Bonnett Road	8000	200	3%	A	250	3%	250	3%	250	3%

Road Section Identification				Traffic Details									
Asset ID	Road Name	From	To	Capacity (vpd)	2023 Horizon			2028 Horizon		2033 Horizon		2043 Horizon	
					Daily Volume	Volume to Capacity	Level of Service	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity
1009.2	Tobacco Road	Bonnett Road	County Road 25	8000	200	3%	A	250	3%	250	3%	250	3%
2544.1	Toronto Street	Ontario Street	Old Percy Road	16000	4700	29%	A	5200	33%	5750	36%	7000	44%
2544.2	Toronto Street	Old Percy Road	Park Street W	16000	4700	29%	A	5200	33%	5750	36%	7000	44%
2546	Toronto Street	Park Street W	Norton Lane	16000	4700	29%	A	5200	33%	5750	36%	7000	44%
2541	Toronto Street	Norton Lane	Robertson Street	16000	4700	29%	A	5200	33%	5750	36%	7000	44%
2542	Toronto Street	Robertson Street	Church Street W	16000	4700	29%	A	5200	33%	5750	36%	7000	44%
2543	Toronto Street	Church Street W	King Street W	16000	4700	29%	A	5200	33%	5750	36%	7000	44%
1165	Townline Road	County Road 31	County Road 2	8000	200	3%	A	250	3%	250	3%	250	3%
2597	Trenear Road	County Road 2	Trent Valley Drive	8000	200	3%	A	250	3%	250	3%	250	3%
2289	Trenear Road	Trent Valley Drive	Little Lake Road	8000	200	3%	A	250	3%	250	3%	250	3%
834	Trenear Road North	Little Lake Road	End of Road (Private Section)	8000	200	3%	A	250	3%	250	3%	250	3%
840	Trent Valley Drive	Little Lake Road	Ventress Road	8000	100	1%	A	150	2%	150	2%	150	2%
841.1	Trent Valley Drive	Ventress Road	Trenear Road	8000	100	1%	A	150	2%	150	2%	150	2%
841.2	Trent Valley Drive	Trenear Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
1108.1	Trottman Road	Telephone Road	Chapman Road	8000	200	3%	A	250	3%	250	3%	250	3%
1108.2	Trottman Road	Chapman Road	Broomfield Road	8000	200	3%	A	250	3%	250	3%	250	3%
1108.3	Trottman Road	Broomfield Road	County Road 21	8000	200	3%	A	250	3%	250	3%	250	3%
2501	Union Road	County Road 2	Beach Drive	8000	49	1%	A	49	1%	49	1%	49	1%
1169	Union Road	Beach Drive	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
805	Valley Road	Dingman Road	End of Road	8000	200	3%	A	250	3%	250	3%	250	3%
843	Van Wicklin Lane	Little Lake Road	Little Lake Road	8000	49	1%	A	49	1%	49	1%	49	1%
838	Ventress Road	Little Lake Road	150 m North of Trent Valley Drive	8000	200	3%	A	250	3%	250	3%	250	3%
1155	Ventress Road	150 m North of Trent Valley Road	County Road 2	8000	200	3%	A	250	3%	250	3%	250	3%
1185	Victoria Beach Road	Colton Street	Durham Street South	8000	200	3%	A	250	3%	250	3%	250	3%
1187	Victoria Beach Road	Durham Street South	Victoria Beach Road (Quarry Acces	8000	400	5%	A	450	6%	450	6%	500	6%

Road Section Identification				Traffic Details									
Asset ID	Road Name	From	To	Capacity (vpd)	2023 Horizon			2028 Horizon		2033 Horizon		2043 Horizon	
					Daily Volume	Volume to Capacity	Level of Service	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity	Daily Volume	Volume to Capacity
1191	Victoria Beach Road	Victoria Beach Road (Quarry Acces	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
2237.1	Victoria Street	King Street E	Simmons Street	12000	200	2%	A	250	2%	250	2%	300	3%
2237.2	Victoria Street	Simmons Street	North Street	12000	200	2%	A	250	2%	250	2%	300	3%
1083	Victoria Street	North Street	Creek Street	12000	200	2%	A	250	2%	250	2%	300	3%
1085	Victoria Street	Creek Street	Keeler Court (George Court)	12000	200	2%	A	250	2%	250	2%	300	3%
3055	Victoria Street	Keeler Court (George Court)	Arthur Steet	12000	200	2%	A	250	2%	250	2%	300	3%
1087	Victoria Street	Arthur Steet	Earl Street	12000	200	2%	A	250	2%	250	2%	300	3%
1089	Victoria Street	Earl Street	William Street	12000	200	2%	A	250	2%	250	2%	300	3%
1201	Victoria Street	William Street	100 m South of William Street	12000	100	1%	A	150	1%	150	1%	150	1%
858	Victoria Street	100 m South of William Street	End of Road	8000	100	1%	A	150	2%	150	2%	150	2%
1091	Victory Street	King Street East	Church Street East	4000	400	10%	A	450	11%	450	11%	500	13%
3085	Waites Road	County Road 21	Telephone Road	8000	200	3%	A	250	3%	250	3%	250	3%
828.1	Walker Road	County Road 21	300 m south of County Road 21	8000	200	3%	A	250	3%	250	3%	250	3%
828.2	Walker Road	300 m south of County Road 21	Telephone Road	8000	49	1%	A	49	1%	49	1%	49	1%
813	Wilce Road	Dingman Road	End of Road	8000	49	1%	A	49	1%	49	1%	49	1%
2596	William Street	Victoria Street	Ontario Street	8000	200	3%	A	250	3%	250	3%	250	3%

Appendix C:
Road Inventory

Cramahe Road Needs Study 2023

Master List - Road Sections & Existing Conditions

Road Section Identification				Cross-Section Details												
Asset ID	Road Name	From	To	Length (km)	Drainage	Roadside Environ	Road Class	O.Reg. Class	Lanes	Platform Width (m)	Surface Type	Surface Width (m)	Shoulder Type	Shoulder Width (m)	Posted Speed (km/h)	2023 AADT	PCI
906	Alfred Street	Elgin Street South	Kensington Street	0.2	no ditch	urban	local	5	2	8	asphalt	8	no shoulder		50	200	59
911.1	Arthur Street	Baldwin Place	Cortland Crescent	0.1	storm sewer	urban	local	5	2	8.5	asphalt	8.5	no shoulder		50	200	91
911.2	Arthur Street	Cortland Crescent	Cortland Crescent	0.1	storm sewer	urban	local	5	2	8.5	asphalt	8.5	no shoulder		50	200	87
911.3	Arthur Street	Cortland Crescent	Division Street	0.1	storm sewer	urban	local	5	2	8.5	asphalt	8.5	no shoulder		50	200	87
909.1	Arthur Street	Division Street	Thornlea Road	0.1	no ditch	semi-urban	local	5	2	7.5	asphalt	7.5	other		50	200	60
909.2	Arthur Street	Thornlea Road	Victoria Street	0.1	open ditch	semi-urban	local	5	2	7.5	asphalt	6.5	gravel	0.5	50	200	68
845	Arthur's Lane	Purdy Road	End of Road	0.7	open ditch	rural	local	6	2	6	gravel	6	gravel		80	49	79
844.1	Bailey Drive (North)	Little Lake Road	300m S of Little Lake Road	0.3	no ditch	rural	local	6	2	4	gravel	4	gravel		80	49	62
844.2	Bailey Drive (South)	Little Lake Road	300m N of Little Lake Road	0.3	no ditch	rural	local	6	2	4	gravel	4	gravel		80	49	70
2548	Baldwin Place	Ontario Street	Arthur Street	0.1	storm sewer	urban	local	5	2	8.5	asphalt	8.5	no shoulder		50	250	100
2547	Baldwin Place	Arthur Street	End of Road	0.1	storm sewer	urban	local	6	2	8.5	asphalt	8.5	no shoulder		50	49	100
2558.1	Barlow Road	Jones Road	Cowie Road	0.6	open ditch	rural	local	6	2	7.5	surface treated	6.5	gravel	0.5	80	49	88
2558.2	Barlow Road	Cowie Road	End of Road	0.2	open ditch	rural	local	6	2	6	surface treated	5	gravel	0.5	80	49	88
2325	Barnes Road	Beach Drive	County Road 2	1.7	open ditch	rural	local	4	2	7	surface treated	6	gravel	0.5	80	200	72
2328	Beach Drive	Union Road	Hunt Road	1.0	open ditch	rural	local	4	2	6.5	surface treated	5.5	gravel	0.5	80	200	80
2333	Beach Drive	Hunt Road	Barnes Road	1.1	open ditch	rural	local	4	2	6.5	surface treated	5.5	gravel	0.5	80	200	77
783	Begg Road	County Road 27	1420m S of Cty Rd 27 (to curve)	1.4	no ditch	rural	local	6	2	5	gravel	5	gravel		80	49	77
852	Bellamy Road	County Road 2	End of Road	1.3	open ditch	rural	local	6	2	6	gravel	6	gravel		80	49	77
1175	Blyth Park Road	County Road 2	CN Cross Road	1.0	open ditch	rural	local	4	2	7	surface treated	6	gravel	0.5	80	200	50
1177	Blyth Park Road	CN Cross Road	Simpson Road	0.9	open ditch	rural	local	6	2	7	surface treated	6	gravel	0.5	50	49	67
855	Blyth Park Road	Simpson Road	End of Road	0.3	open ditch	rural	local	5	2	6	gravel	6	gravel		50	200	83
2373	Bonnett Road	Tobacco Road	County Road 25	1.0	open ditch	rural	local	4	2	8	surface treated	7.5	gravel	0.3	80	100	67
2506	Branscombe Road	County Road 2	End of Road	0.9	open ditch	rural	local	6	2	6.5	surface treated	5.5	gravel	0.5	80	49	64
1139.1	Brighton-Cramahe Boundary Road	County Road 2	Hillview Road	0.4	open ditch	rural	local	5	2	8	surface treated	7	gravel	0.5	50	200	75
1139.2	Brighton-Cramahe Boundary Road	Hillview Road	Little Lake Road	2.0	open ditch	rural	local	5	2	7.5	surface treated	6.5	gravel	0.5	50	200	77
1106	Broomfield Road	Trottman Road	County Road 21	0.2	no ditch	rural	local	4	2	6.5	surface treated	5.5	gravel	0.5	80	200	63
829	Burbridge Road	Telephone Road	End of Road	1.4	open ditch	rural	local	6	2	6.5	gravel	6	gravel	0.3	80	49	92
2529.1	Burnham Avenue	Church Street	Cedar Street E	0.3	storm sewer	urban	local	5	2	6.5	asphalt	6.5	no shoulder		50	200	89
2529.2	Burnham Avenue	Cedar Street E	Park Street E	0.2	storm sewer	urban	local	5	2	6.5	asphalt	6.5	no shoulder		50	200	88
777.1	Campbell Road	Morganston Road	Stoney Lonesome Road	0.5	no ditch	rural	local	4	2	7	gravel	6	other	0.5	80	200	90
777.2	Campbell Road	Stoney Lonesome Road	Clarke Road	1.8	open ditch	rural	local	4	2	7	gravel	6	gravel	0.5	80	200	78
778.1	Campbell Road	Clarke Road	Mitchell Road	0.3	open ditch	rural	local	4	2	7	surface treated	6	gravel	0.5	80	100	72
778.2	Campbell Road	Mitchell Road	Cramahe Township Boundary	1.2	open ditch	rural	local	4	2	6	gravel	6	gravel		80	200	76
773	Carr Road	County Road 27	End of Road	1.6	open ditch	rural	local	6	2	7	gravel	6	gravel	0.5	80	49	81
842	Cedar Lane	Little Lake Road	End of Road	0.2	no ditch	rural	local	6	2	6.5	gravel	6	gravel	0.3	50	49	75

Road Section Identification				Cross-Section Details													
Asset ID	Road Name	From	To	Length (km)	Drainage	Roadside Environ	Road Class	O.Reg. Class	Lanes	Platform Width (m)	Surface Type	Surface Width (m)	Shoulder Type	Shoulder Width (m)	Posted Speed (km/h)	2023 AADT	PCI
917	Cedar Street	Mill Street	County Road 25	0.2	no ditch	rural	local	5	2	7	asphalt	6	other	0.5	50	200	63
2530	Cedar Street (Colborne)	Percy Street	Burnham Avenue	0.2	storm sewer	urban	local	5	2	6.5	asphalt	6.5	no shoulder		50	200	96
2258	Cemetery Road	Country Road 25	Public School Access	0.1	no ditch	rural	local	6	2	10.5	asphalt	5.5	gravel	2.5	50	49	95
1337	Cemetery Road	Public School Access	200 m north of School Access	0.2	no ditch	rural	local	6	2	7	gravel	6	gravel	0.5	50	49	76
827	Chapman Road	Trottman Road	Telephone Road	2.3	open ditch	rural	local	4	2	7.5	gravel	6	gravel	0.8	80	100	70
926.1	Church Street E	Percy Street	Maybee Lane	0.1	storm sewer	urban	local	5	2	8.5	asphalt	8.5	no shoulder		50	400	75
926.2	Church Street E	Maybee Lane	Burnham Avenue	0.1	storm sewer	urban	local	5	2	8.5	asphalt	8.5	no shoulder		50	400	75
926.3	Church Street E	Burnham Avenue	Victory Street	0.0	storm sewer	urban	local	5	2	8.5	asphalt	8.5	no shoulder		50	400	91
929	Church Street E	Victory Street	Elgin Street N	0.2	storm sewer	urban	local	5	2	8.5	asphalt	8.5	no shoulder		50	400	65
919	Church Street W	Ontario Street	Toronto Street	0.4	storm sewer	urban	local	5	2	8.7	asphalt	8.7	no shoulder		50	400	63
923	Church Street W	Toronto Street	Percy Street	0.1	storm sewer	urban	local	5	2	9.7	asphalt	9.7	no shoulder		50	400	95
775	Clarke Road	County Road 25	Campbell Road	0.9	open ditch	rural	local	4	2	7	gravel	6	gravel	0.5	80	200	86
1023.1	Clarkson Road	Dunbar Road	Hagarty Road	1.2	open ditch	rural	local	4	2	7	surface treated	6	gravel	0.5	80	100	78
1023.2	Clarkson Road	Hagarty Road	Twp Boundary	0.2	no ditch	rural	local	4	2	7	surface treated	6	gravel	0.5	80	100	88
854	CN Cross Road	Peters Road	Blythe Park Road	0.4	no ditch	rural	local	6	2	6	gravel	6	gravel		80	49	90
835	Cochrane Road	Little Lake Road	End of Road	1.4	no ditch	rural	local	6	2	7	gravel	6	gravel	0.5	80	49	76
2502.1	Colton Street	County Road 2	Simpson Road	1.9	open ditch	rural	local	6	2	7	surface treated	6	gravel	0.5	80	49	71
2502.2	Colton Street	Simpson Road	Victoria Beach Road	0.2	open ditch	rural	local	5	2	7	surface treated	6	surface treated	0.5	50	200	93
2503	Colton Street	Victoria Beach Road	End of Road	0.1	open ditch	rural	local	6	2	7	surface treated	6	gravel	0.5	50	49	78
796	Combview Road (laneway)	Stoney Lonesome Road	End of Road	0.6	no ditch	rural	local	6	2	7.5	gravel	6	gravel	0.8	80	49	83
780	Concession Road 1 W	Mitchell Road	Stonehaven Road	1.7	open ditch	rural	local	4	2	7	gravel	6	gravel	0.5	80	200	83
932	Cortland Crescent	Arthur Street	Arthur Street	0.3	storm sewer	urban	local	5	2	8.5	asphalt	8.5	no shoulder		50	100	87
2336	Cowie Road	County Road 21	Dingman Road	2.9	open ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	80	200	76
2928.1	Cowie Road	Dingman Road	Haynes Road	0.7	no ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	80	200	88
2928.2	Cowie Road	Haynes Road	Barlow Road	0.6	open ditch	rural	local	4	2	7.5	surface treated	6.5	gravel	0.5	80	200	89
1131.1	Crandall Road	Honey Road	Dunk Road	2.0	open ditch	rural	local	5	2	9	surface treated	7	gravel	1.0	50	200	93
1131.2	Crandall Road	Dunk Road	Dean Road	0.6	open ditch	rural	local	5	2	9	surface treated	7	gravel	1.0	50	200	52
1131.3	Crandall Road	Dean Road	Lake Road	0.6	open ditch	rural	local	5	2	8.5	surface treated	6.5	gravel	1.0	50	200	67
937	Creek Street	Division Street	Victoria Street	0.2	storm sewer	urban	local	5	2	8	asphalt	8	no shoulder		50	200	83
822	Dale Road	Penryn Road	County Road 21	2.1	open ditch	rural	local	4	2	8	gravel	6	gravel	1.0	80	200	64
769.1	Darling Road	County Road 27	O'Grady Road	0.6	open ditch	rural	local	4	2	7	gravel	6	gravel	0.5	80	200	80
769.2	Darling Road	O'Grady Road	Pine Grove Road	1.9	open ditch	rural	local	6	2	7	gravel	6	gravel	0.5	50	49	88
912.1	Darling Road	Pine Grove Road	Hutchinson Road	0.7	open ditch	rural	local	5	2	8	gravel	6	gravel	1.0	50	200	59
912.2	Darling Road	Hutchinson Road	Cramahe Township Boundary	0.3	open ditch	rural	local	5	2	7	surface treated	6	gravel	0.5	50	200	77
789	Dawson Road	Morganston Road	Red Cloud School Road	2.0	open ditch	rural	local	4	2	7	gravel	6	gravel	0.5	80	100	65

Road Section Identification				Cross-Section Details													
Asset ID	Road Name	From	To	Length (km)	Drainage	Roadside Environ	Road Class	O.Reg. Class	Lanes	Platform Width (m)	Surface Type	Surface Width (m)	Shoulder Type	Shoulder Width (m)	Posted Speed (km/h)	2023 AADT	PCI
790	Dawson Road	Red Cloud School Road	633 Dawson Road	0.7	open ditch	rural	local	5	2	6	gravel	6	gravel		50	100	60
3087	Dawson Road	633 Dawson Road	Cramahe Township Boundary	0.6	open ditch	rural	local	5	2	6	gravel	6	gravel		50	100	60
2556	Dean Road	Crandall Road	End of Road	0.2	no ditch	rural	local	6	2	5	gravel	5	gravel		50	49	75
824	Deele Road	Telephone Road	End of Road	1.3	open ditch	rural	local	6	2	6	gravel	6	gravel		80	49	74
2997	Dekseyer Road	300 m west of County Road 25	Neil McGreggor Road	1.0	open ditch	rural	local	4	2	10.5	surface treated	8.5	gravel	1.0	80	100	78
2545	Depaepe Court	Gould Road	End of Road	0.1	no ditch	rural	local	6	2	8.5	asphalt	7.5	gravel	0.5	50	49	90
2308	Dingman Road	County Road 25	Cowie Road	2.6	open ditch	rural	local	4	2	7.5	surface treated	6.5	gravel	0.5	80	200	95
2307.1	Dingman Road	Cowie Road	Valley Road	0.8	open ditch	rural	local	4	2	7.5	surface treated	6.5	gravel	0.5	80	200	70
2307.2	Dingman Road	Valley Road	Tobacco Road	2.6	open ditch	rural	local	4	2	7.5	surface treated	6.5	gravel	0.5	80	200	58
794	Dingwall Road	Mount Pleasant	End of Road	0.9	open ditch	rural	local	6	2	6	gravel	6	gravel		80	49	82
2559	Dunbar Road	Jakobi Road	Clarkson Road	0.2	open ditch	rural	local	4	2	7	surface treated	6	gravel	0.5	80	200	65
808	Dunbar Road	Clarkson Road	Cramahe Township Boundary	0.3	no ditch	rural	local	4	2	7	gravel	6	gravel	0.5	80	200	92
2551	Dunk Road	Crandall Road	End of Road	0.2	no ditch	rural	local	6	2	5	gravel	5	gravel		50	49	68
2265	Durham Street N	King Street E	Scott Street	0.5	storm sewer	urban	collector	5	2	6.7	asphalt	6.7	no shoulder		50	400	87
2595	Durham Street N	Scott Street	700 m north of Scott Street	0.7	open ditch	rural	collector	4	2	8.5	surface treated	7.5	gravel	0.5	60	575	63
2326	Durham Street N	700 m north of Scott Street	Purdy Road	0.8	open ditch	rural	collector	4	2	8.5	surface treated	7.5	gravel	0.5	60	575	63
2610.1	Durham Street S	King Street E	Streamside Drive	0.1	storm sewer	urban	collector	5	2	7.8	asphalt	7.8	no shoulder		50	400	71
2610.2	Durham Street S	Streamside Drive	Prairie Run Road	0.1	open ditch	semi-urban	collector	5	2	8.2	asphalt	7.2	other	0.5	50	400	100
2941	Durham Street S	Prairie Run Road	Victoria Beach Road	1.9	open ditch	semi-urban	collector	4	2	8.2	surface treated	7.2	other	0.5	80	400	85
2944	Durham Street S	Victoria Beach Road	End of Road	0.2	no ditch	rural	collector	6	2	6.5	surface treated	6.5	other		50	49	77
1203	Earl Street	Division Street	Victoria Street	0.2	open ditch	semi-urban	local	5	2	8.5	surface treated	6.5	gravel	1.0	50	200	60
1209.1	Elgin Street N	Park Street E	Industrial Park Road	1.0	open ditch	rural	local	5	2	6.5	surface treated	6	gravel	0.3	50	200	57
1209.2	Elgin Street N	Industrial Park Road	Purdy Road	0.5	open ditch	rural	local	5	2	8.5	surface treated	6.5	gravel	1.0	50	200	59
953	Elgin Street N	King Street East	Church Street East	0.1	storm sewer	urban	local	5	2	8.5	asphalt	8.5	no shoulder		50	200	70
955.1	Elgin Street S	King Street E	Simmons Street	0.1	storm sewer	urban	local	5	2	8.5	asphalt	8.5	no shoulder		50	200	83
955.2	Elgin Street S	Simmons Street	Alfred Street	0.2	storm sewer	urban	local	5	2	8.5	asphalt	8.5	no shoulder		50	200	78
2262	Elgin Street S	Alfred Street	End of Road	0.4	storm sewer	urban	local	5	2	6.9	asphalt	6.9	no shoulder		50	200	78
821	Feeney Road	Penryn Road	End of Road	0.1	open ditch	rural	local	6	2	5	gravel	5	gravel		80	49	89
1149.1	Fiddick Road	Little Lake Road	Old Rail Road	2.7	open ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	80	200	73
1149.2	Fiddick Road	Old Rail Road	County Road 2	0.3	open ditch	rural	local	4	2	9.5	surface treated	7.5	gravel	1.0	80	200	100
819	Gillespie Road	Penryn Road	End of Road	1.0	no ditch	rural	local	6	2	6.5	gravel	6	gravel	0.3	80	49	71
957.1	Gould Road	County Road 22	Depaepe Court	0.3	open ditch	semi-urban	local	6	2	7.5	asphalt	7.5	other		50	49	72
957.2	Gould Road	Depaepe Court	Old Percy Road	0.2	no ditch	semi-urban	local	5	2	7.5	asphalt	7.5	other		50	200	73
957.3	Gould Road	Old Percy Road	County Road 22	0.0	no ditch	urban	local	5	2	8.5	surface treated	8.5	no shoulder		50	200	100
1012	Haynes Road	County Road 25	Sheppard Lane	0.3	no ditch	rural	local	4	2	6.5	surface treated	6.5	other		80	200	80

Road Section Identification				Cross-Section Details												
Asset ID	**Road Name**	**From**	**To**	**Length (km)**	**Drainage**	**Roadside Environ**	**Road Class**	**O.Reg. Class**	**Lanes**	**Platform Width (m)**	**Surface Type**	**Surface Width (m)**	**Shoulder Type**	**Shoulder Width (m)**	**Posted Speed (km/h)**	**2023 AADT**	**PCI**
2335	Haynes Road	Sheppard Lane	Cowie Road	2.6	no ditch	rural	local	4	2	6.5	surface treated	6.5	other		80	200	67
2603	Herley Road	Telephone Road	Honey Road	1.5	open ditch	rural	local	4	2	8	gravel	6	gravel	1.0	80	200	83
1137	Herley Road	Honey Road	Purdy Road	0.5	open ditch	rural	local	5	2	11	surface treated	7	gravel	2.0	50	200	69
1135.1	Honey Road	Herley Road	Samis Road	0.9	no ditch	rural	local	5	2	8	surface treated	7	gravel	0.5	50	200	69
1135.2	Honey Road	Samis Road	Crandall Road	0.7	open ditch	rural	local	5	2	8	surface treated	7	gravel	0.5	50	200	70
1135.3	Honey Road	Crandall Road	Penny Lane	0.8	open ditch	rural	local	5	2	8	surface treated	7	gravel	0.5	50	200	56
1135.4	Honey Road	Penny Lane	Telephone Road	0.2	open ditch	rural	local	5	2	8	surface treated	7	gravel	0.5	50	200	74
2330	Hunt Road	Beach Drive	County Road 2	1.7	open ditch	rural	local	4	2	7	surface treated	6	gravel	0.5	80	200	57
798	Huycke Road	County Road 25	Pinewood School Road	2.9	open ditch	rural	local	4	2	6	gravel	6	gravel		80	100	70
826	Ibbotson Road	Telephone Road	End of Road	0.3	no ditch	rural	local	6	2	5	gravel	5	gravel		80	49	74
959	Industrial Park Road	Purdy Road	Elgin Street North	0.8	open ditch	semi-urban	local	5	2	12	asphalt	7	gravel	2.5	50	400	66
2110	Industrial Park Road N	Purdy Road	1st Cul-de-Sac	0.1	open ditch	semi-urban	local	5	2	10.5	asphalt	8.5	gravel	1.0	50	200	94
2323	Industrial Park Road N	1st Cul-de-Sac	2nd Cul-de-Sac	0.2	open ditch	rural	local	5	2	11	gravel	6	gravel	2.5	50	200	88
811	Inglis Road	Old Shelter Valley	Cramahe Township Boundary	0.5	open ditch	rural	local	4	2	7	surface treated	6	gravel	0.5	80	200	89
1159	Jackson Drive	Purdy Road	County Road 2	2.0	open ditch	rural	local	4	2	8	surface treated	7	surface treated	0.5	80	200	93
1017.1	Jakobi Road	County Road 22	Moore Road	2.3	open ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	80	400	68
1017.2	Jakobi Road	Moore Road	Morganston Road	0.9	open ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	80	400	78
1017.3	Jakobi Road	Morganston Road	Dunbar Road	0.3	open ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	80	400	63
961	Jane's Court	King Street East	End of Road	0.2	storm sewer	urban	local	5	2	8.6	asphalt	8.6	no shoulder		50	200	80
2931	Jones Road	County Road 25	Barlow Road	1.2	open ditch	rural	local	4	2	7.5	surface treated	6.5	gravel	0.5	80	100	90
3032	Keeler Court (George Court)	Victoria Street	90 m east of Victoria Street (bend)	0.1	storm sewer	urban	local	5	2	8.5	asphalt	8.5	no shoulder		50	200	96
3044	Keeler Court (George Court)	90 m east of Victoria Street (bend)	Cul-de-Sac	0.1	storm sewer	urban	local	5	2	8.5	asphalt	8.5	no shoulder		50	200	96
1161	Keeler Road	County Road 25	County Road 25	0.3	no ditch	semi-urban	local	6	2	6	asphalt	5.5	other	0.3	50	49	55
2557	Kelly Drive (Laneway)	Morganston Road	End of Road	0.7	no ditch	rural	local	6	2	4.5	gravel	4.5	gravel		80	49	72
1163	Kelwood Lane	County Road 25	105 Kelwood Lane	0.3	open ditch	rural	local	5	2	7.5	surface treated	6.5	gravel	0.5	50	200	75
965	Kelwood Lane	105 Kelwood Lane	Cul-de-Sac	0.4	open ditch	rural	local	5	2	7.5	surface treated	6.5	gravel	0.5	50	200	75
969	Kensington Avenue	King Street E	Alfred Street	0.3	sewer & ditch	urban	local	5	2	6.5	asphalt	6.5	no shoulder		50	200	71
971.2	King Street E	Percy Street	Maybee Lane	0.1	storm sewer	urban	arterial	3	2	20	asphalt	20	no shoulder		50	4700	94
971.3	King Street E	Maybee Lane	Victory Street	0.1	storm sewer	urban	arterial	3	2	20	asphalt	20	no shoulder		50	4700	95
971.4	King Street E	Victory Street	Victoria Street	0.0	storm sewer	urban	arterial	3	2	10.5	asphalt	10.5	no shoulder		50	4700	100
975	King Street E	Victoria Street	Elgin Street	0.2	storm sewer	urban	arterial	3	2	10.5	asphalt	10.5	no shoulder		50	4700	85
977	King Street E	Elgin Street	Kensington Avenue	0.2	storm sewer	urban	arterial	3	2	10.5	asphalt	10.5	no shoulder		50	4700	80
980	King Street E	Kensington Avenue	Durham Street South	0.6	storm sewer	urban	arterial	3	2	10.2	asphalt	10.2	no shoulder		50	4700	76
983	King Street E	Durham Street South	Janes Court	0.2	storm sewer	urban	arterial	3	2	10.2	asphalt	10.2	no shoulder		50	4700	82
985.1	King Street E	Janes Court	Parliament Street	0.1	storm sewer	urban	arterial	3	2	10.2	asphalt	10.2	no shoulder		50	4700	88

Road Section Identification				Cross-Section Details												
Asset ID	**Road Name**	**From**	**To**	**Length (km)**	**Drainage**	**Roadside Environ**	**Road Class**	**O.Reg. Class**	**Lanes**	**Platform Width (m)**	**Surface Type**	**Surface Width (m)**	**Shoulder Type**	**Shoulder Width (m)**	**Posted Speed (km/h)**	**2023 AADT**	**PCI**
985.2	King Street E	Parliament Street	Spencer Street	0.2	storm sewer	urban	arterial	3	2	10.2	asphalt	10.2	no shoulder		50	4700	87
989	King Street E	Spencer Street	Colton Street	0.4	storm sewer	urban	arterial	3	2	10.2	asphalt	10.2	no shoulder		50	4700	87
992	King Street W	Ontario Street	Toronto Street	0.4	storm sewer	urban	local	5	2	8.5	asphalt	8.5	no shoulder		50	400	64
NEW	King Street W	Toronto Street	Division Street	0.0	storm sewer	urban	arterial	5	2	14.8	asphalt	14.8	no shoulder		50	400	88
971.1	King Street W	Division Street	Percy Street	0.0	storm sewer	urban	arterial	5	2	14.8	asphalt	14.8	no shoulder		50	400	90
1133.1	Lake Road	Telephone Road	Crandall Road	0.9	open ditch	rural	local	5	2	8.5	surface treated	7.5	gravel	0.5	50	400	80
1133.2	Lake Road	Crandall Road	McDonald Road	0.3	open ditch	rural	local	5	2	10.5	surface treated	8.5	gravel	1.0	50	400	84
2889	Lake Road	McDonald Road	Pine Tree Lane	0.2	open ditch	rural	local	6	2	9.5	surface treated	8.5	gravel	0.5	40	400	87
2883	Lake Road	Pine Tree Lane	Little Lake Road	0.5	open ditch	rural	local	6	2	9.5	surface treated	8.5	gravel	0.5	40	400	88
1171	Lakeshore Road	Union Road	Cramahe Townahip Boundary (Kelly	0.4	open ditch	rural	local	4	2	7.5	surface treated	6.5	gravel	0.5	80	200	62
2552	Lee Lane (Laneway)	Telephone Road	End of Road	0.3	no ditch	rural	local	6	2	4	gravel	4	gravel		80	49	71
2589.1	Little Lake Road	County Road 2	Bailey Drive	1.0	open ditch	rural	local	4	2	9	surface treated	8	gravel	0.5	80	400	75
2589.2	Little Lake Road	Bailey Drive	Bailey Drive	0.5	open ditch	rural	local	3	2	9	surface treated	8	gravel	0.5	80	1000	97
2589.3	Little Lake Road	Bailey Drive	Van Wicklin Lane	0.2	open ditch	rural	local	4	2	9	surface treated	8	gravel	0.5	80	400	87
2589.4	Little Lake Road	Van Wicklin Lane	Van Wicklin Lane	0.1	open ditch	rural	local	4	2	9	surface treated	8	gravel	0.5	80	400	84
2589.5	Little Lake Road	Van Wicklin Lane	Cedar Lane	0.1	open ditch	rural	local	4	2	9	surface treated	8	gravel	0.5	80	400	89
2589.6	Little Lake Road	Cedar Lane	Purdy Road	0.3	open ditch	rural	local	4	2	9	surface treated	8	gravel	0.5	80	400	77
995	Little Lake Road	Purdy Road	Lake Road	1.0	open ditch	rural	local	4	2	8.5	asphalt	7.5	gravel	0.5	60	1000	73
1143.1	Little Lake Road	Lake Road	Ventress Road	0.4	open ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	50	1000	70
1143.2	Little Lake Road	Ventress Road	Reddick Road	0.1	open ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	50	1000	66
1143.3	Little Lake Road	Reddick Road	Trenear Road North	0.7	open ditch	rural	local	3	2	9	surface treated	7	gravel	1.0	80	1000	54
1141.1	Little Lake Road	Trenear Road North	Trenear Road	0.1	open ditch	rural	local	3	2	9	surface treated	7	gravel	1.0	80	1000	59
1141.2	Little Lake Road	Trenear Road	Cochrane Road	0.8	open ditch	rural	local	4	2	9	surface treated	7	gravel	1.0	80	400	56
1141.3	Little Lake Road	Cochrane Road	Fiddick Road	0.1	open ditch	rural	local	4	2	9	surface treated	7	gravel	1.0	80	400	68
1141.4	Little Lake Road	Fiddick Road	Twp Boundary	0.8	open ditch	rural	local	4	2	7	surface treated	6	gravel	0.5	80	400	53
817	Maple Grove Road	County Road 21	End of Road	1.2	open ditch	rural	local	6	2	7	gravel	6	gravel	0.5	80	49	66
774	Massey Lane	County Road 27	End of Road	0.4	open ditch	rural	local	6	2	6.5	gravel	6	gravel	0.3	80	49	79
999	Maybee Lane	King Street East	Church Street East	0.1	storm sewer	urban	local	6	1	5.5	asphalt	5.5	no shoulder		50	49	58
NEW	Mensen Road	Penryn Road	Twp Boundary (Turn Around)	0.3	no ditch	rural	local	6	2	6.5	gravel	6	gravel	0.3	80	49	68
1001.1	Mill Street	County Road 25	Cedar Street	0.2	open ditch	semi-urban	local	5	2	6.5	asphalt	6.5	other		50	200	64
1001.2	Mill Street	Cedar Street	End of Road	0.2	open ditch	rural	local	6	2	6.5	gravel	6	gravel	0.3	50	49	66
781.1	Mitchell Road	Concession Road 1	Red Cloud School Road	0.5	open ditch	rural	local	6	2	7	gravel	6	gravel	0.5	80	49	88
781.2	Mitchell Road	Red Cloud School Road	920 m south of Red Cloud School R	0.9	open ditch	rural	local	6	2	7	gravel	6	gravel	0.5	80	49	76
933.1	Mitchell Road	1350 m south of Red Cloud School	Stonehaven Road	0.8	open ditch	rural	local	6	2	6	gravel	6	gravel		80	49	83
933.2	Mitchell Road	Stonehaven Road	Campbell Road	0.7	open ditch	rural	local	6	2	7.5	surface treated	6.5	gravel	0.5	80	49	61

Road Section Identification				Cross-Section Details													
Asset ID	**Road Name**	**From**	**To**	**Length (km)**	**Drainage**	**Roadside Environ**	**Road Class**	**O.Reg. Class**	**Lanes**	**Platform Width (m)**	**Surface Type**	**Surface Width (m)**	**Shoulder Type**	**Shoulder Width (m)**	**Posted Speed (km/h)**	**2023 AADT**	**PCI**
NEW	Mitchell Road (UNMAINTAINED)	920 m south of Red Cloud School R	1350 m south of Red Cloud School	0.4	no ditch	rural	local	6	2	3	gravel	3	gravel		80	49	28
809	Moore Road	Jakobi Road	Cramahe Township Boundary	0.4	open ditch	rural	local	4	2	6.5	surface treated	5.5	gravel	0.5	80	200	86
935	Morganston Road	Jakobi Road	Dawson Road	0.8	open ditch	rural	local	4	2	7.5	surface treated	6.5	gravel	0.5	80	200	70
981	Morganston Road	Dawson Road	Tait Road	0.8	open ditch	rural	local	4	2	7.5	surface treated	6.5	gravel	0.5	80	200	67
2306.1	Morganston Road	Tait Road	Kelly Drive	0.8	open ditch	rural	local	4	2	7.5	surface treated	6.5	gravel	0.5	80	200	75
2306.2	Morganston Road	Kelly Drive	Mount Pleasant Road	2.0	open ditch	rural	local	4	2	7.5	surface treated	6.5	gravel	0.5	80	200	73
987.1	Morganston Road	Mount Pleasant Road	Campbell Road	0.9	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	200	69
987.2	Morganston Road	Campbell Road	Stoney Lonesome Road	0.5	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	200	86
987.3	Morganston Road	Stoney Lonesome Road	County Road 25	1.7	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	200	65
993	Mount Pleasant Road	County Road 22	Tait Road	2.3	open ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	80	200	73
998.1	Mount Pleasant Road	Tait Road	Sunny Hill Drive	1.8	open ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	80	200	70
998.2	Mount Pleasant Road	Sunny Hill Drive	Dingwall Road	1.0	open ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	80	200	72
998.3	Mount Pleasant Road	Dingwall Road	Morganston Road	0.4	open ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	80	200	85
825	Mutton Road	Telephone Road	County Road 21	1.9	open ditch	rural	local	4	2	6	gravel	6	gravel		80	100	68
812	Neil McGregor Road	Pipeline Road	935m S of Pipeline Road	0.9	open ditch	rural	local	6	2	6	gravel	6	gravel		80	49	77
1003	North Street	Victoria Street	Division Street	0.2	storm sewer	urban	local	5	2	8	asphalt	8	no shoulder		50	100	93
1008	Norton Lane	Percy Street	Toronto Street	0.1	storm sewer	semi-urban	local	5	1	5.2	asphalt	5.2	other		50	100	62
1013.1	Norway Street	Pine Street	County Road 25	0.2	no ditch	rural	local	5	2	7	asphalt	7	other		50	200	69
1013.2	Norway Street	County Road 25	End of Road	0.1	open ditch	rural	local	6	2	6.5	asphalt	6.5	other		50	49	62
1016	Oak Street	County Road 25	Pine Street	0.2	open ditch	rural	local	5	2	6.5	asphalt	5.5	asphalt	0.5	50	200	62
2550	Oak Street	County Road 25	End of Road	0.1	no ditch	rural	local	6	2	6	gravel	6	gravel		50	49	77
770	O'Grady Road	Darling Road	County Road 27	0.8	no ditch	rural	local	4	2	7	gravel	6	gravel	0.5	80	100	83
2894	Old Percy Road (Castleton)	Gould Road	Spring Street	0.3	open ditch	rural	local	5	2	8	surface treated	7	surface treated	0.5	50	200	90
2897	Old Percy Road (Castleton)	Spring St	End of Road	0.4	no ditch	rural	local	6	2	8	surface treated	7	surface treated	0.5	50	49	73
2561	Old Percy Road (Castleton)	Old Shelter Valley Road	End of Road	0.4	open ditch	rural	local	6	2	6.5	surface treated	5.5	gravel	0.5	80	49	58
1207	Old Percy Road (Colborne)	Toronto Street	End of Road	0.2	open ditch	semi-urban	local	6	2	5.5	gravel	5.5	gravel		50	49	74
1151	Old Rail Road	Fiddick Road	End of Road	0.4	open ditch	rural	local	6	2	5.5	surface treated	4.5	gravel	0.5	80	49	55
1094.1	Old Shelter Valley Road	County Road 25	Old Percy Road	0.3	open ditch	rural	local	4	2	7	surface treated	6	gravel	0.5	80	200	60
1094.2	Old Shelter Valley Road	Old Percy Road	Inglis Road	0.4	open ditch	rural	local	4	2	7	surface treated	6	gravel	0.5	80	200	72
1094.3	Old Shelter Valley Road	Inglis Road	Pipeline Road	1.0	open ditch	rural	local	4	2	7	surface treated	6	gravel	0.5	80	200	58
2553	Old Shelter Valley Road	Pipeline Road	End of Road	0.4	open ditch	rural	local	6	2	7	gravel	6	gravel	0.5	50	49	77
846	Old Wharf Road	County Road 31	End of Road	0.4	open ditch	rural	local	6	2	6	gravel	6	gravel		50	49	81
2228	Ontario Street	County Road 2	Robertson Street	0.4	open ditch	rural	local	5	2	7.5	gravel	6	gravel	0.8	50	400	80
1025.1	Ontario Street	Robertson Street	Church Street	0.1	no ditch	semi-urban	local	5	2	6.8	surface treated	5.8	gravel	0.5	50	400	70
1025.2	Ontario Street	Church Street	King Street W	0.1	open ditch	semi-urban	local	5	2	6.8	surface treated	5.8	gravel	0.5	50	400	70

Road Section Identification				Cross-Section Details												
Asset ID	Road Name	From	To	Length (km)	Drainage	Roadside Environ	Road Class	O.Reg. Class	Lanes	Platform Width (m)	Surface Type	Surface Width (m)	Shoulder Type	Shoulder Width (m)	Posted Speed (km/h)	2023 AADT	PCI
1029	Ontario Street	King Street W	200 m north of Baldwin Place	0.2	open ditch	rural	local	5	2	7	surface treated	6	gravel	0.5	50	400	66
NEW	Ontario Street	200 m north of Baldwin Place	Baldwin Place	0.2	open ditch	rural	local	5	2	8	gravel	6	gravel	1.0	50	400	84
1212	Ontario Street	Baldwin Place	Earl Street	0.4	open ditch	rural	local	5	2	8	gravel	6	gravel	1.0	50	400	89
1147.1	Orchard Road	County Road 25	Big Apple Drive	0.4	no ditch	rural	local	4	2	9	surface treated	8	gravel	0.5	60	700	62
1147.2	Orchard Road	Big Apple Drive	Cramahe Township Boundary	0.8	no ditch	rural	local	5	2	9	surface treated	8	gravel	0.5	60	400	62
2226	Park Road	County Road 22	End of Road	0.6	open ditch	rural	local	6	2	7.5	gravel	6	gravel	0.8	80	49	76
2531.1	Park Street E	Percy Street	Burnham Avenue	0.2	storm sewer	urban	local	5	2	6.5	asphalt	6.5	no shoulder		50	400	100
2531.2	Park Street E	Burnham Avenue	Elgin Street N	0.2	storm sewer	urban	local	5	2	6.5	asphalt	6.5	no shoulder		50	400	94
1035	Park Street W	Toronto Street	Percy Street	0.3	storm sewer	urban	local	5	2	8.5	asphalt	8.5	no shoulder		50	200	74
2263	Parliament Street	King Street E	Scott Street	0.6	storm sewer	urban	local	5	2	6.5	asphalt	6.5	no shoulder		50	200	84
1039	Parliament Street	Scott Street	560m N of Scott Street	0.6	open ditch	semi-urban	local	5	2	7.5	asphalt	6.5	asphalt	0.5	50	200	64
1199	Parliament Street	560m N of Scott Street	Purdy Road	1.0	open ditch	semi-urban	local	5	2	7.5	surface treated	6.5	gravel	0.5	60	200	62
802.1	Parsons Road	County Road 25	Pinewood School Road	0.9	open ditch	rural	local	4	2	7.5	gravel	6	gravel	0.8	80	100	69
802.2	Parsons Road	Pinewood School Road	150m S of Pinewood School Road	0.2	no ditch	rural	local	6	2	7.5	gravel	6	gravel	0.8	80	49	72
1157	Peacock Lane	County Road 2	County Road 2	0.4	no ditch	rural	local	6	2	6	surface treated	5	gravel	0.5	50	49	55
2225	Penny Lane	Honey Road	End of Road	0.1	open ditch	rural	local	6	2	6.5	surface treated	5.5	gravel	0.5	80	49	63
2375.1	Penryn Road	Tobacco Road	Wilce Road	0.3	open ditch	rural	local	5	2	8	surface treated	7	gravel	0.5	60	200	60
2375.2	Penryn Road	Wilce Road	Feeney Road	1.2	open ditch	rural	local	5	2	8	surface treated	7	gravel	0.5	60	200	67
2375.3	Penryn Road	Feeney Road	Shiloh Road	0.3	open ditch	rural	local	5	2	8	surface treated	7	surface treated	0.5	60	200	95
2375.4	Penryn Road	Shiloh Road	Gillespie Road	0.2	open ditch	rural	local	5	2	8	surface treated	7	surface treated	0.5	60	200	68
2375.5	Penryn Road	Gillespie Road	Dale Road	2.2	open ditch	rural	local	5	2	8	surface treated	7	surface treated	0.5	60	200	76
2375.6	Penryn Road	Dale Road	Mensen Road	0.5	no ditch	rural	local	4	2	6.5	gravel	6	gravel	0.3	80	200	77
1173	Peters Road	County Road 2	CN Cross Road	0.9	open ditch	rural	local	6	2	7.5	surface treated	6.5	gravel	0.5	80	49	87
2291	Peters Road	CN Cross Road	End of Road	0.9	open ditch	rural	local	5	2	6.5	surface treated	5.5	gravel	0.5	50	200	65
804	Phasey Road	County Road 25	End of Road	0.3	open ditch	rural	local	4	2	5.5	gravel	5.5	gravel		80	200	77
771.1	Phillips Road	County Road 27	Hardy Lane	0.3	open ditch	rural	local	6	2	6	gravel	6	gravel		80	49	89
771.2	Phillips Road	Hardy Lane	End of Road	0.2	open ditch	rural	local	6	2	6	gravel	6	gravel		80	49	86
900	Pine Grove Road	County Road 25	Darling Road	2.5	open ditch	rural	local	5	2	7	gravel	6	gravel	0.5	50	200	73
1049.1	Pine Street	County Road 22	Norway Street	0.2	no ditch	rural	local	5	2	6.5	asphalt	5.5	asphalt	0.5	50	200	50
1049.2	Pine Street	Norway Street	Oak Street	0.2	no ditch	rural	local	5	2	6.5	asphalt	5.5	asphalt	0.5	50	200	53
1049.3	Pine Street	Oak Street	End of Road	0.1	no ditch	rural	local	6	2	4.5	asphalt	4.5	other		50	49	45
832	Pine Tree Lane	Lake Road	End of Road	0.4	no ditch	rural	local	6	2	6	gravel	6	gravel		50	49	70
800	Pinewood School Road	Parsons Road	Tobacco Road	1.3	no ditch	rural	local	4	2	6.5	gravel	6	gravel	0.3	80	100	66
801.1	Pinewood School Road	Tobacco Road	Huycke Road	0.9	open ditch	rural	local	4	2	6.5	gravel	6	gravel	0.3	80	100	82
801.2	Pinewood School Road	Huycke Road	Twp Boundary	2.7	open ditch	rural	local	4	2	6.5	gravel	6	gravel	0.3	80	100	76

Road Section Identification				Cross-Section Details													
Asset ID	**Road Name**	**From**	**To**	**Length (km)**	**Drainage**	**Roadside Environ**	**Road Class**	**O.Reg. Class**	**Lanes**	**Platform Width (m)**	**Surface Type**	**Surface Width (m)**	**Shoulder Type**	**Shoulder Width (m)**	**Posted Speed (km/h)**	**2023 AADT**	**PCI**
2331	Pipeline Road	County Road 25	Old Shelter Valley Road	0.9	open ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	80	200	77
2560	Pipeline Road	Old Shelter Valley Road	125 m west of Old Shelter Valley Rd	0.1	open ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	80	200	87
2625	Pipeline Road	125 m west of Old Shelter Valley Rd	Neil McGregor Road	0.3	open ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	80	200	87
818	Pogue Road	County Road 21	End of Road	1.7	open ditch	rural	local	6	2	6.5	gravel	6	gravel	0.3	80	49	62
2267.1	Purdy Road	County Road 25	Industrial Park Road	0.4	open ditch	rural	local	4	2	8.5	asphalt	7.5	gravel	0.5	60	1800	83
2267.2	Purdy Road	Industrial Park Road	Elgin Street N	0.4	open ditch	rural	local	4	2	8.5	asphalt	7.5	gravel	0.5	60	1800	65
2267.3	Purdy Road	Elgin Street N	Durham Street N	0.8	open ditch	rural	local	4	2	8.5	asphalt	7.5	gravel	0.5	60	1800	76
2376.1	Purdy Road	Durham Street N	Parliament Street	0.6	open ditch	rural	local	4	2	8.5	asphalt	7.5	gravel	0.5	60	1800	79
2376.2	Purdy Road	Parliament Street	Arthurs Lane	1.0	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	60	1700	94
2376.3	Purdy Road	Arthurs Lane	Jackson Drive	0.9	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	60	1800	95
2376.4	Purdy Road	Jackson Drive	Little Lake Road	1.0	open ditch	rural	local	4	2	8.5	asphalt	7.5	gravel	0.5	60	1800	79
785	Red Cloud School Road	Dawson Road	Smith Road	2.3	open ditch	rural	local	4	2	6	gravel	6	gravel		80	100	65
786	Red Cloud School Road	Smith Road	Mitchell Road	1.2	no ditch	rural	local	5	2	6	gravel	6	gravel		60	100	62
833	Reddick Road	Little Lake Road	Private Road Section	0.7	no ditch	rural	local	5	2	4.5	gravel	4.5	gravel		50	200	53
NEW	Riley Road	Moore Road	End of Road	0.2	no ditch	rural	local	6	2	6	gravel	6	gravel		80	49	70
1057	Robertson Street	Toronto Street	Ontario Street	0.3	storm sewer	urban	local	5	2	6.5	asphalt	6.5	no shoulder		50	400	75
1059	Rotary Centennial Drive	Division Street	Parking Lot	0.1	open ditch	semi-urban	local	5	2	7.7	asphalt	6.7	other	0.5	50	200	61
830.1	Samis Road	Telephone Road	200 m south of Telephone Road	0.2	no ditch	rural	local	6	2	6.5	gravel	6	gravel	0.3	80	49	66
830.3	Samis Road	250 m north of Honey Road	Honey Road	0.3	no ditch	rural	local	6	2	5.5	gravel	5.5	gravel		80	49	63
830.2	Samis Road (UNMAINTAINED)	200 m south of Telephone Road	250 m north of Honey Road	0.8	no ditch	rural	local	6	2	4	gravel	4	gravel		80	49	28
1195	Scott Street	Durham Street N	Parliament Street	0.4	no ditch	rural	local	5	2	7.5	surface treated	6.5	gravel	0.5	50	200	63
2555	Sheppard Lane (Laneway)	Haynes Road	End of Road	0.2	no ditch	rural	local	6	2	3.5	gravel	3.5	gravel		80	49	69
1104	Shiloh Road	County Road 21	Penryn Road	1.9	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	200	72
1061	Simmons Street	Elgin Street South	Victoria Street	0.2	storm sewer	urban	local	5	2	6.8	asphalt	6.8	no shoulder		50	200	79
1179	Simpson Road	Blythe Park Road	Colton Street	1.7	open ditch	rural	local	5	2	7	surface treated	6	surface treated	0.5	50	200	100
787	Smith Road	Red Cloud School Road	Cramahe Township Boundary	0.7	no ditch	rural	local	6	2	6	gravel	6	gravel		50	49	70
2606	Spencer Street	Parliament Street	17 Spencer Street	0.4	no ditch	rural	local	5	2	7	surface treated	6	surface treated	0.5	50	200	84
2604	Spencer Street	17 Spencer Street	King Street E	0.2	no ditch	rural	local	5	2	7	surface treated	6	surface treated	0.5	50	200	90
2900	Spring Street	Old Percy Road	Cty Rd 25	0.1	no ditch	rural	local	5	2	8.5	surface treated	7.5	surface treated	0.5	50	200	89
779	Stonehaven Road	Concession Road 1	Mitchell Road	1.0	open ditch	rural	local	6	2	6.5	gravel	6	gravel	0.3	80	49	87
795.1	Stoney Lonesome Road	County Road 25	Combview Road	0.5	no ditch	rural	local	4	2	7.5	gravel	6	gravel	0.8	80	200	74
795.2	Stoney Lonesome Road	Combview Road	Morganston Road	1.4	no ditch	rural	local	4	2	7	gravel	6	gravel	0.5	80	200	80
795.3	Stoney Lonesome Road	Morganston Road	Campbell Road	0.1	open ditch	rural	local	4	2	7	gravel	6	gravel	0.5	80	200	75
1065	Streamside Drive	Durham Street South	410m W of Durham Street South	0.4	open ditch	semi-urban	local	5	2	7.8	asphalt	6.8	gravel	0.5	50	200	60
NEW	Streamside Drive	410m W of Durham Street South	Lillys Court	0.1	storm sewer	urban	local	5	2	8.4	asphalt	8.4	no shoulder		50	200	100

Road Section Identification				Cross-Section Details												
Asset ID	Road Name	From	To	Length (km)	Drainage	Roadside Environ	Road Class	O.Reg. Class	Lanes	Platform Width (m)	Surface Type	Surface Width (m)	Shoulder Type	Shoulder Width (m)	Posted Speed (km/h)	2023 AADT	PCI
793	Sunny Hill Drive	Mount Pleasant Road	370m S of Mount Pleasant Road	0.4	open ditch	rural	local	6	2	5.5	gravel	5.5	gravel		80	49	69
792	Tait Road	Mount Pleasant Road	Morganston Road	1.4	open ditch	rural	local	6	2	6.5	gravel	6	gravel	0.3	80	49	96
791	Tait Road	Morganston Road	200 m north of Morganston Road	0.2	open ditch	rural	local	6	1	4	gravel	4	gravel		80	49	72
2892.1	Telephone Road	County Road 25	Lee Lane	0.8	no ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	425	88
2892.2	Telephone Road	Lee Lane	Herley Road	0.8	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	425	85
1112.1	Telephone Road	Herley Road	Burbridge Road	0.0	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	100	93
1112.2	Telephone Road	Burbridge Road	Samis Road	0.8	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	425	88
1112.3	Telephone Road	Samis Road	Walker Road	0.0	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	425	99
1113.1	Telephone Road	Walker Road	Chapman Road	0.8	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	425	77
1113.2	Telephone Road	Chapman Road	Honey Road	0.0	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	425	100
1113.3	Telephone Road	Honey Road	Trottman Road	0.8	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	425	78
1113.4	Telephone Road	Trottman Road	Mutton Road	0.8	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	425	88
1113.5	Telephone Road	Mutton Road	Lake Road	1.1	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	425	86
1115.1	Telephone Road	Lake Road	Deele Road	0.5	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	425	88
1115.2	Telephone Road	Deele Road	Ibbotson Road	1.6	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	425	80
1115.3	Telephone Road	Ibbotson Road	Waites Road	0.8	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	425	81
1110	Telephone Road West	Twp Boundary	County Road 25	1.2	no ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	425	69
1067	Thornlea Road	Arthur Street	End of Road	0.2	open ditch	semi-urban	local	6	2	7.5	asphalt	6	gravel	0.8	50	49	60
1005	Tobacco Road	Dingman Road	Pinewood School Road	2.1	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	200	65
1009.1	Tobacco Road	Pinewood School Road	Bonnett Road	1.0	open ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	200	62
1009.2	Tobacco Road	Bonnett Road	County Road 25	0.8	no ditch	rural	local	4	2	8.5	surface treated	7.5	gravel	0.5	80	200	65
2544.1	Toronto Street	Ontario Street	Old Percy Road	0.1	open ditch	rural	arterial	3	2	11.3	asphalt	7.3	gravel	2.0	50	4700	85
2544.2	Toronto Street	Old Percy Road	Park Street W	0.1	storm sewer	urban	arterial	3	2	9.4	asphalt	9.4	no shoulder		50	4700	88
2546	Toronto Street	Park Street W	Norton Lane	0.3	storm sewer	urban	arterial	3	2	9.4	asphalt	9.4	no shoulder		50	4700	73
2541	Toronto Street	Norton Lane	Robertson Street	0.0	storm sewer	urban	arterial	3	2	12.1	asphalt	12.1	no shoulder		50	4700	88
2542	Toronto Street	Robertson Street	Church Street W	0.1	storm sewer	urban	arterial	3	2	12.1	asphalt	12.1	no shoulder		50	4700	88
2543	Toronto Street	Church Street W	King Street W	0.1	storm sewer	urban	arterial	3	2	13.3	asphalt	13.3	no shoulder		50	4700	87
1165	Townline Road	County Road 31	County Road 2	2.4	open ditch	rural	local	5	2	7.5	surface treated	6.5	gravel	0.5	60	200	74
2597	Trenear Road	County Road 2	Trent Valley Drive	0.6	open ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	80	200	78
2289	Trenear Road	Trent Valley Drive	Little Lake Road	2.0	open ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	80	200	71
834	Trenear Road North	Little Lake Road	End of Road (Private Section)	0.8	open ditch	rural	local	4	2	6.5	gravel	6	gravel	0.3	80	200	83
840	Trent Valley Drive	Little Lake Road	Ventress Road	1.7	open ditch	rural	local	4	2	8	gravel	6	gravel	1.0	80	100	87
841.1	Trent Valley Drive	Ventress Road	Trenear Road	1.1	open ditch	rural	local	4	2	8	gravel	6	gravel	1.0	80	100	81
841.2	Trent Valley Drive	Trenear Road	End of Road	0.2	no ditch	rural	local	6	2	4.5	gravel	4.5	gravel		80	49	79
1108.1	Trottman Road	Telephone Road	Chapman Road	1.7	open ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	80	200	93

Road Section Identification				Cross-Section Details												
Asset ID	**Road Name**	**From**	**To**	**Length (km)**	**Drainage**	**Roadside Environ**	**Road Class**	**O.Reg. Class**	**Lanes**	**Platform Width (m)**	**Surface Type**	**Surface Width (m)**	**Shoulder Type**	**Shoulder Width (m)**	**Posted Speed (km/h)**	**2023 AADT**	**PCI**
1108.2	Trottman Road	Chapman Road	Broomfield Road	0.1	open ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	80	200	100
1108.3	Trottman Road	Broomfield Road	County Road 21	0.1	open ditch	rural	local	4	2	8	surface treated	7	gravel	0.5	80	200	100
2501	Union Road	County Road 2	Beach Drive	1.4	open ditch	rural	local	6	2	9	surface treated	9	other		80	49	68
1169	Union Road	Beach Drive	End of Road	0.2	open ditch	rural	local	6	2	6	surface treated	5	gravel	0.5	50	49	60
805	Valley Road	Dingman Road	End of Road	0.8	open ditch	rural	local	4	2	5.5	surface treated	4.5	gravel	0.5	80	200	75
843	Van Wicklin Lane	Little Lake Road	Little Lake Road	0.2	no ditch	rural	local	6	2	5.5	gravel	5.5	gravel		50	49	60
838	Ventress Road	Little Lake Road	150 m North of Trent Valley Drive	1.7	open ditch	rural	local	4	2	6.5	gravel	6	gravel	0.3	80	200	82
1155	Ventress Road	150 m North of Trent Valley Road	County Road 2	1.0	open ditch	rural	local	4	2	7	surface treated	6	gravel	0.5	80	200	82
1185	Victoria Beach Road	Colton Street	Durham Street South	0.8	open ditch	rural	local	5	2	8	surface treated	7	surface treated	0.5	50	200	93
1187	Victoria Beach Road	Durham Street South	Victoria Beach Road (Quarry Acces	0.6	open ditch	rural	local	5	2	8.7	surface treated	7.7	gravel	0.5	50	400	71
1191	Victoria Beach Road	Victoria Beach Road (Quarry Acces	End of Road	0.4	open ditch	rural	local	6	2	6	gravel	6	gravel		50	49	73
2237.1	Victoria Street	King Street E	Simmons Street	0.1	storm sewer	urban	collector	5	2	9	asphalt	9	no shoulder		50	200	77
2237.2	Victoria Street	Simmons Street	North Street	0.0	storm sewer	urban	collector	5	2	9	asphalt	9	no shoulder		50	200	75
1083	Victoria Street	North Street	Creek Street	0.1	storm sewer	urban	collector	5	2	9	asphalt	9	no shoulder		50	200	89
1085	Victoria Street	Creek Street	Keeler Court (George Court)	0.1	sewer & ditch	semi-urban	collector	5	2	8.5	asphalt	8.5	gravel		50	200	84
3055	Victoria Street	Keeler Court (George Court)	Arthur Steet	0.0	open ditch	semi-urban	collector	5	2	9	asphalt	8.5	gravel	0.5	50	200	96
1087	Victoria Street	Arthur Steet	Earl Street	0.4	storm sewer	urban	collector	5	2	8.5	asphalt	8.5	no shoulder		50	200	81
1089	Victoria Street	Earl Street	William Street	0.2	open ditch	semi-urban	collector	5	2	7.5	asphalt	5.5	gravel	1.0	50	200	59
1201	Victoria Street	William Street	100 m South of William Street	0.1	open ditch	semi-urban	collector	5	2	7.5	surface treated	5.5	gravel	1.0	50	100	81
858	Victoria Street	100 m South of William Street	End of Road	0.4	open ditch	rural	local	5	2	5.5	gravel	5.5	gravel		50	100	71
1091	Victory Street	King Street East	Church Street East	0.1	storm sewer	urban	local	5	1	6.1	asphalt	6.1	no shoulder		50	400	70
3085	Waites Road	County Road 21	Telephone Road	2.0	open ditch	rural	local	4	2	7	surface treated	6	gravel	0.5	80	200	89
828.1	Walker Road	County Road 21	300 m south of County Road 21	0.3	open ditch	rural	local	4	2	6	gravel	6	gravel		80	200	69
828.2	Walker Road	300 m south of County Road 21	Telephone Road	1.7	open ditch	rural	local	6	2	8.5	surface treated	7.5	gravel	0.5	80	49	61
813	Wilce Road	Dingman Road	End of Road	0.5	no ditch	rural	local	6	2	4.5	gravel	4.5	gravel		80	49	66
2596	William Street	Victoria Street	Ontario Street	0.6	no ditch	rural	local	5	2	7	surface treated	6	gravel	0.5	50	200	77
				225.5													

Appendix D:
Road Standards

Standards, Guidelines & Assumptions

ROAD DESIGN STANDARDS **TOLERABLE STANDARDS**

Environment	Road Class		Surface Type	Through Lane	Shoulder Width	Surface Course	Base Course	Asphalt Depth	Granular A Depth	Granular B Depth	Through Lane	Shoulder Width
				m	m	mm	mm	mm	mm	mm	m	m
Rural	local	R1	see note 1	3	1.0	40	50	90	150	300	3.0	0.5
	collector	R2	see note 1	3.5	1.0	40	50	90	150	450	3.0	0.5
	arterial	R3	asphalt	3.5	1.0	40	50	90	150	450	3.0	0.5
Semi-Urban	local	S1	see note 2	3	1.0	40	50	90	150	300	3.0	0.5
	collector	S2	see note 2	3.5	1.0	40	50	90	150	450	3.0	0.5
	arterial	S3	asphalt	3.5	1.0	40	50	90	150	450	3.0	0.5
Urban	local	U1	asphalt	4.25		40	50	90	150	300	3.0	
	collector	U2	asphalt	3.5		40	50	90	150	450	3.0	
	arterial	U3	asphalt	3.5		40	50	90	150	450	3.0	

1. For rural roads, surface type will be dependent upon the traffic volumes

0	≤ AADT <	400	gravel
400	≤ AADT <	1000	surface treated
1000	≤ AADT		asphalt

2. For semi-urban roads, surface type will be dependent upon the traffic volumes

0	≤ AADT <	400	gravel
400	≤ AADT <	1000	surface treated
1000	≤ AADT		asphalt

Appendix E: Road Deficiencies & Improvements

Cramahe Road Needs Study 2023

Deficiencies & Improvements - By Road Section

Road Section Identification & Details						Deficiencies & Needs													Improvement Strategy					
Asset ID	Road Name	From	To	Length (km)	2023 AADT	Geometrics	Surface Condition		Surface Type			Surface Width			Shoulder	Capacity	Drainage		PCI	Road Improvement	Ditch Improvement	Time	Value	Priority Rating
						need	existing	need	existing	tolerable	need	existing	tolerable	need	need	need	existing	need						
906	Alfred Street	Elgin Street South	Kensington Street	0.2	200	adeq	fair	resurface	asphalt	asphalt	adeq	8	6	adeq	adeq	adeq	no ditch	now	59	R		1-5 years	$131,000	33
911.1	Arthur Street	Baldwin Place	Cortland Crescent	0.1	200	adeq	very good	adequate	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	91					
911.2	Arthur Street	Cortland Crescent	Cortland Crescent	0.1	200	adeq	good	adequate	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	87					
911.3	Arthur Street	Cortland Crescent	Division Street	0.1	200	adeq	good	adequate	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	87					
909.1	Arthur Street	Division Street	Thornlea Road	0.1	200	adeq	fair	resurface	asphalt	gravel	adeq	7.5	6	adeq	0.50	adeq	no ditch	now	60	PR	+ ditch work	1-5 years	$61,000	32
909.2	Arthur Street	Thornlea Road	Victoria Street	0.1	200	adeq	fair	resurface	asphalt	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	68	PR		1-5 years	$46,000	26
845	Arthur's Lane	Purdy Road	End of Road	0.7	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	open ditch	now	79	maintenance only				
844.1	Bailey Drive (North)	Little Lake Road	300m S of Little Lake Road	0.3	49	adeq	fair	adequate	gravel	gravel	adeq	4	6	2.00	0.50	adeq	no ditch	now	62	maintenance only				
844.2	Bailey Drive (South)	Little Lake Road	300m N of Little Lake Road	0.3	49	adeq	fair	adequate	gravel	gravel	adeq	4	6	2.00	0.50	adeq	no ditch	now	70	maintenance only				
2548	Baldwin Place	Ontario Street	Arthur Street	0.1	250	adeq	very good	adequate	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	100					
2547	Baldwin Place	Arthur Street	End of Road	0.1	49	adeq	very good	adequate	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	100					
2558.1	Barlow Road	Jones Road	Cowie Road	0.6	49	adeq	good	adequate	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	88	maintenance only				
2558.2	Barlow Road	Cowie Road	End of Road	0.2	49	adeq	good	adequate	surface treated	gravel	adeq	5	6	1.00	adeq	adeq	open ditch	adeq	88	maintenance only				
2325	Barnes Road	Beach Drive	County Road 2	1.7	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	72	PR	+ ditch work	6-10 years	$260,000	22
2328	Beach Drive	Union Road	Hunt Road	1.0	200	adeq	good	adequate	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	now	80	WR	+ ditch work		$207,000	16
2333	Beach Drive	Hunt Road	Barnes Road	1.1	200	adeq	good	resurface	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	now	77	WR	+ ditch work	6-10 years	$240,000	18
783	Begg Road	County Road 27	1420m S of Cty Rd 27 (to curve)	1.4	49	adeq	good	adequate	gravel	gravel	adeq	5	6	1.00	0.50	adeq	no ditch	now	77	maintenance only				
852	Bellamy Road	County Road 2	End of Road	1.3	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	open ditch	now	77	maintenance only				
1175	Blyth Park Road	County Road 2	CN Cross Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	50	PR		1-5 years	$106,000	40
1177	Blyth Park Road	CN Cross Road	Simpson Road	0.9	49	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	67	maintenance only				
855	Blyth Park Road	Simpson Road	End of Road	0.3	200	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	open ditch	now	83					
2373	Bonnett Road	Tobacco Road	County Road 25	1.0	100	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	0.25	adeq	open ditch	adeq	67	PR		1-5 years	$132,000	23
2506	Branscombe Road	County Road 2	End of Road	0.9	49	1	fair	resurface	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	now	64	maintenance only				
1139.1	Brighton-Cramahe Boundary Road	County Road 2	Hillview Road	0.4	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	75	PR	+ ditch work	6-10 years	$80,000	19
1139.2	Brighton-Cramahe Boundary Road	Hillview Road	Little Lake Road	2.0	200	adeq	good	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	77	PR		6-10 years	$241,000	18
1106	Broomfield Road	Trottman Road	County Road 21	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	no ditch	now	63	WR	+ ditch work	1-5 years	$40,000	29
829	Burbridge Road	Telephone Road	End of Road	1.4	49	adeq	very good	adequate	gravel	gravel	adeq	6	6	adeq	0.25	adeq	open ditch	now	92	maintenance only				
2529.1	Burnham Avenue	Church Street	Cedar Street E	0.3	200	adeq	good	adequate	asphalt	asphalt	adeq	6.5	6	adeq	adeq	adeq	storm sewer	adeq	89					
2529.2	Burnham Avenue	Cedar Street E	Park Street E	0.2	200	adeq	good	adequate	asphalt	asphalt	adeq	6.5	6	adeq	adeq	adeq	storm sewer	adeq	88					
777.1	Campbell Road	Morganston Road	Stoney Lonesome Road	0.5	200	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	90					
777.2	Campbell Road	Stoney Lonesome Road	Clarke Road	1.8	200	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	78					
778.1	Campbell Road	Clarke Road	Mitchell Road	0.3	100	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	72	PR	+ ditch work	6-10 years	$44,000	19
778.2	Campbell Road	Mitchell Road	Cramahe Township Boundary	1.2	200	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	open ditch	now	76					
773	Carr Road	County Road 27	End of Road	1.6	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	81	maintenance only				
842	Cedar Lane	Little Lake Road	End of Road	0.2	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	0.25	adeq	no ditch	now	75	maintenance only				
917	Cedar Street	Mill Street	County Road 25	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	63	PR	+ ditch work	1-5 years	$90,000	29
2530	Cedar Street (Colborne)	Percy Street	Burnham Avenue	0.2	200	adeq	very good	adequate	asphalt	asphalt	adeq	6.5	6	adeq	adeq	adeq	storm sewer	adeq	96					
2258	Cemetery Road	Country Road 25	Public School Access	0.1	49	adeq	very good	adequate	asphalt	gravel	adeq	5.5	6	0.50	adeq	adeq	no ditch	now	95	maintenance only				
1337	Cemetery Road	Public School Access	200 m north of School Access	0.2	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	76	maintenance only				
827	Chapman Road	Trottman Road	Telephone Road	2.3	100	2	fair	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	70					
926.1	Church Street E	Percy Street	Maybee Lane	0.1	400	adeq	good	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	75	R		6-10 years	$50,000	23
926.2	Church Street E	Maybee Lane	Burnham Avenue	0.1	400	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	75	R		6-10 years	$38,000	23
926.3	Church Street E	Burnham Avenue	Victory Street	0.0	400	adeq	very good	adequate	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	91					
929	Church Street E	Victory Street	Elgin Street N	0.2	400	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	65	R		1-5 years	$125,000	32
919	Church Street W	Ontario Street	Toronto Street	0.4	400	adeq	fair	resurface	asphalt	asphalt	adeq	8.7	6	adeq	adeq	adeq	storm sewer	adeq	63	R		1-5 years	$189,000	34
923	Church Street W	Toronto Street	Percy Street	0.1	400	adeq	very good	adequate	asphalt	asphalt	adeq	9.7	6	adeq	adeq	adeq	storm sewer	adeq	95					
775	Clarke Road	County Road 25	Campbell Road	0.9	200	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	86					
1023.1	Clarkson Road	Dunbar Road	Hagarty Road	1.2	100	adeq	good	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	78	PR	+ ditch work	6-10 years	$188,000	15
1023.2	Clarkson Road	Hagarty Road	Twp Boundary	0.2	100	adeq	good	adequate	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	88					
854	CN Cross Road	Peters Road	Blythe Park Road	0.4	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	no ditch	now	90	maintenance only				

Road Section Identification & Details						Deficiencies & Needs													Improvement Strategy					
Asset ID	Road Name	From	To	Length (km)	2023 AADT	Geometrics	Surface Condition		Surface Type			Surface Width			Shoulder	Capacity	Drainage		PCI	Road Improvement	Ditch Improvement	Time	Value	Priority Rating
						need	existing	need	existing	tolerable	need	existing	tolerable	need	need	need	existing	need						
835	Cochrane Road	Little Lake Road	End of Road	1.4	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	76	maintenance only				
2502.1	Colton Street	County Road 2	Simpson Road	1.9	49	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	71	maintenance only				
2502.2	Colton Street	Simpson Road	Victoria Beach Road	0.2	200	adeq	very good	adequate	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	93					
2503	Colton Street	Victoria Beach Road	End of Road	0.1	49	adeq	good	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	78	maintenance only				
796	Combview Road (laneway)	Stoney Lonesome Road	End of Road	0.6	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	83	maintenance only				
780	Concession Road 1 W	Mitchell Road	Stonehaven Road	1.7	200	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	83					
932	Cortland Crescent	Arthur Street	Arthur Street	0.3	100	adeq	good	adequate	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	87					
2336	Cowie Road	County Road 21	Dingman Road	2.9	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	76	PR		6-10 years	$368,000	19
2928.1	Cowie Road	Dingman Road	Haynes Road	0.7	200	adeq	good	adequate	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	no ditch	now	88					
2928.2	Cowie Road	Haynes Road	Barlow Road	0.6	200	adeq	good	adequate	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	89					
1131.1	Crandall Road	Honey Road	Dunk Road	2.0	200	adeq	very good	adequate	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	93					
1131.2	Crandall Road	Dunk Road	Dean Road	0.6	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	52	PR	+ ditch work	1-5 years	$109,000	37
1131.3	Crandall Road	Dean Road	Lake Road	0.6	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	67	PR	+ ditch work	1-5 years	$107,000	26
937	Creek Street	Division Street	Victoria Street	0.2	200	adeq	good	adequate	asphalt	asphalt	adeq	8	6	adeq	adeq	adeq	storm sewer	adeq	83					
822	Dale Road	Penryn Road	County Road 21	2.1	200	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	64					
769.1	Darling Road	County Road 27	O'Grady Road	0.6	200	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	80					
769.2	Darling Road	O'Grady Road	Pine Grove Road	1.9	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	88	maintenance only				
912.1	Darling Road	Pine Grove Road	Hutchinson Road	0.7	200	adeq	fair	resurface	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	59	PR	+ ditch work	now	$104,000	32
912.2	Darling Road	Hutchinson Road	Cramahe Township Boundary	0.3	200	adeq	good	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	77	PR	+ ditch work	6-10 years	$50,000	18
789	Dawson Road	Morganston Road	Red Cloud School Road	2.0	100	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	65					
790	Dawson Road	Red Cloud School Road	633 Dawson Road	0.7	100	2	fair	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	open ditch	adeq	60					
3087	Dawson Road	633 Dawson Road	Cramahe Township Boundary	0.6	100	2	fair	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	open ditch	adeq	60					
2556	Dean Road	Crandall Road	End of Road	0.2	49	adeq	fair	adequate	gravel	gravel	adeq	5	6	1.00	0.50	adeq	no ditch	now	75	maintenance only				
824	Deele Road	Telephone Road	End of Road	1.3	49	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	open ditch	now	74	maintenance only				
2997	Dekseyer Road	300 m west of County Road 25	Neil McGreggor Road	1.0	100	adeq	good	resurface	surface treated	gravel	adeq	8.5	6	adeq	adeq	adeq	open ditch	adeq	78	PR		6-10 years	$168,000	15
2545	Depaepe Court	Gould Road	End of Road	0.1	49	adeq	good	adequate	asphalt	gravel	adeq	7.5	6	adeq	adeq	adeq	no ditch	now	90	maintenance only				
2308	Dingman Road	County Road 25	Cowie Road	2.6	200	adeq	very good	adequate	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	95					
2307.1	Dingman Road	Cowie Road	Valley Road	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	70	PR		1-5 years	$102,000	24
2307.2	Dingman Road	Valley Road	Tobacco Road	2.6	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	58	PR	+ ditch work	1-5 years	$444,000	33
794	Dingwall Road	Mount Pleasant	End of Road	0.9	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	open ditch	now	82	maintenance only				
2559	Dunbar Road	Jakobi Road	Clarkson Road	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	65	PR		1-5 years	$18,000	28
808	Dunbar Road	Clarkson Road	Cramahe Township Boundary	0.3	200	adeq	very good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	92					
2551	Dunk Road	Crandall Road	End of Road	0.2	49	adeq	fair	adequate	gravel	gravel	adeq	5	6	1.00	0.50	adeq	no ditch	now	68	maintenance only				
2265	Durham Street N	King Street E	Scott Street	0.5	400	adeq	good	adequate	asphalt	asphalt	adeq	6.7	6	adeq	adeq	adeq	storm sewer	adeq	87					
2595	Durham Street N	Scott Street	700 m north of Scott Street	0.7	575	adeq	fair	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	63	PR		1-5 years	$334,000	36
2326	Durham Street N	700 m north of Scott Street	Purdy Road	0.8	575	adeq	fair	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	63	PR		1-5 years	$372,000	36
2610.1	Durham Street S	King Street E	Streamside Drive	0.1	400	adeq	fair	resurface	asphalt	asphalt	adeq	7.8	6	adeq	adeq	adeq	storm sewer	adeq	71	R		6-10 years	$38,000	27
2610.2	Durham Street S	Streamside Drive	Prairie Run Road	0.1	400	adeq	very good	adequate	asphalt	surface treated	adeq	7.2	6	adeq	adeq	adeq	open ditch	adeq	100					
2941	Durham Street S	Prairie Run Road	Victoria Beach Road	1.9	400	adeq	good	adequate	surface treated	surface treated	adeq	7.2	6	adeq	adeq	adeq	open ditch	adeq	85					
2944	Durham Street S	Victoria Beach Road	End of Road	0.2	49	adeq	good	resurface	surface treated	gravel	adeq	6.5	6	adeq	0.50	adeq	no ditch	now	77	maintenance only				
1203	Earl Street	Division Street	Victoria Street	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	60	PR	+ ditch work	1-5 years	$37,000	32
1209.1	Elgin Street N	Park Street E	Industrial Park Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	0.25	adeq	open ditch	adeq	57	PR		1-5 years	$106,000	34
1209.2	Elgin Street N	Industrial Park Road	Purdy Road	0.5	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	59	PR		1-5 years	$55,000	32
953	Elgin Street N	King Street East	Church Street East	0.1	200	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	70	R		6-10 years	$63,000	23
955.1	Elgin Street S	King Street E	Simmons Street	0.1	200	adeq	good	adequate	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	83					
955.2	Elgin Street S	Simmons Street	Alfred Street	0.2	200	adeq	good	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	78	R		6-10 years	$89,000	18
2262	Elgin Street S	Alfred Street	End of Road	0.4	200	adeq	good	resurface	asphalt	asphalt	adeq	6.9	6	adeq	adeq	adeq	storm sewer	adeq	78	R		6-10 years	$180,000	17
821	Feeney Road	Penryn Road	End of Road	0.1	49	adeq	good	adequate	gravel	gravel	adeq	5	6	1.00	0.50	adeq	open ditch	now	89	maintenance only				
1149.1	Fiddick Road	Little Lake Road	Old Rail Road	2.7	200	4	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	73	PR		6-10 years	$359,000	22
1149.2	Fiddick Road	Old Rail Road	County Road 2	0.3	200	adeq	very good	adequate	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	100					

Road Section Identification & Details						Deficiencies & Needs													Improvement Strategy					
Asset ID	Road Name	From	To	Length (km)	2023 AADT	Geometrics	Surface Condition		Surface Type			Surface Width			Shoulder	Capacity	Drainage		PCI	Road Improvement	Ditch Improvement	Time	Value	Priority Rating
						need	existing	need	existing	tolerable	need	existing	tolerable	need	need	need	existing	need						
819	Gillespie Road	Penryn Road	End of Road	1.0	49	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	0.25	adeq	no ditch	now	71	maintenance only				
957.1	Gould Road	County Road 22	Depaepe Court	0.3	49	adeq	fair	resurface	asphalt	gravel	adeq	7.5	6	adeq	0.50	adeq	open ditch	adeq	72	PR		6-10 years	$167,000	17
957.2	Gould Road	Depaepe Court	Old Percy Road	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	7.5	6	adeq	0.50	adeq	no ditch	now	73	PR	+ ditch work	6-10 years	$100,000	21
957.3	Gould Road	Old Percy Road	County Road 22	0.0	200	adeq	very good	adequate	surface treated	asphalt	adeq	8.5	6	adeq	adeq	adeq	no ditch	now	100					
1012	Haynes Road	County Road 25	Sheppard Lane	0.3	200	adeq	good	adequate	surface treated	gravel	adeq	6.5	6	adeq	0.50	adeq	no ditch	now	80					
2335	Haynes Road	Sheppard Lane	Cowie Road	2.6	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	0.50	adeq	no ditch	now	67	PR	+ ditch work	1-5 years	$423,000	26
2603	Herley Road	Telephone Road	Honey Road	1.5	200	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	83					
1137	Herley Road	Honey Road	Purdy Road	0.5	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	69	PR		1-5 years	$59,000	24
1135.1	Honey Road	Herley Road	Samis Road	0.9	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	no ditch	now	69	PR	+ ditch work	1-5 years	$156,000	25
1135.2	Honey Road	Samis Road	Crandall Road	0.7	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	70	PR		1-5 years	$92,000	24
1135.3	Honey Road	Crandall Road	Penny Lane	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	56	PR	+ ditch work	1-5 years	$145,000	35
1135.4	Honey Road	Penny Lane	Telephone Road	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	74	PR		6-10 years	$24,000	20
2330	Hunt Road	Beach Drive	County Road 2	1.7	200	2	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	57	PR	+ ditch work	1-5 years	$272,000	34
798	Huycke Road	County Road 25	Pinewood School Road	2.9	100	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	open ditch	now	70					
826	Ibbotson Road	Telephone Road	End of Road	0.3	49	adeq	fair	adequate	gravel	gravel	adeq	5	6	1.00	0.50	adeq	no ditch	now	74	maintenance only				
959	Industrial Park Road	Purdy Road	Elgin Street North	0.8	400	adeq	fair	resurface	asphalt	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	66	PR		1-5 years	$428,000	31
2110	Industrial Park Road N	Purdy Road	1st Cul-de-Sac	0.1	200	adeq	very good	adequate	asphalt	gravel	adeq	8.5	6	adeq	adeq	adeq	open ditch	adeq	94					
2323	Industrial Park Road N	1st Cul-de-Sac	2nd Cul-de-Sac	0.2	200	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	88					
811	Inglis Road	Old Shelter Valley	Cramahe Township Boundary	0.5	200	adeq	good	adequate	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	89					
1159	Jackson Drive	Purdy Road	County Road 2	2.0	200	adeq	very good	adequate	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	93					
1017.1	Jakobi Road	County Road 22	Moore Road	2.3	400	adeq	fair	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	68	PR		1-5 years	$1,019,000	29
1017.2	Jakobi Road	Moore Road	Morganston Road	0.9	400	adeq	good	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	now	78	PR	+ ditch work	6-10 years	$420,000	20
1017.3	Jakobi Road	Morganston Road	Dunbar Road	0.3	400	adeq	fair	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	now	63	PR	+ ditch work	1-5 years	$167,000	34
961	Jane's Court	King Street East	End of Road	0.2	200	adeq	good	resurface	asphalt	asphalt	adeq	8.6	6	adeq	adeq	adeq	storm sewer	adeq	80	R		6-10 years	$112,000	16
2931	Jones Road	County Road 25	Barlow Road	1.2	100	adeq	good	adequate	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	90					
3032	Keeler Court (George Court)	Victoria Street	90 m east of Victoria Street (bend)	0.1	200	adeq	very good	adequate	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	96					
3044	Keeler Court (George Court)	90 m east of Victoria Street (bend)	Cul-de-Sac	0.1	200	adeq	very good	adequate	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	96					
1161	Keeler Road	County Road 25	County Road 25	0.3	49	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	0.25	adeq	no ditch	now	55	WR	+ ditch work	1-5 years	$95,000	27
2557	Kelly Drive (Laneway)	Morganston Road	End of Road	0.7	49	adeq	fair	adequate	gravel	gravel	adeq	4.5	6	1.50	0.50	adeq	no ditch	now	72	maintenance only				
1163	Kelwood Lane	County Road 25	105 Kelwood Lane	0.3	200	adeq	good	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	75	PR		6-10 years	$32,000	20
965	Kelwood Lane	105 Kelwood Lane	Cul-de-Sac	0.4	200	adeq	good	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	75	PR		6-10 years	$48,000	20
969	Kensington Avenue	King Street E	Alfred Street	0.3	200	adeq	fair	resurface	asphalt	asphalt	adeq	6.5	6	adeq	adeq	adeq	sewer & ditch	now	71	R		6-10 years	$192,000	23
971.2	King Street E	Percy Street	Maybee Lane	0.1	4700	adeq	very good	adequate	asphalt	asphalt	adeq	20	6	adeq	adeq	adeq	storm sewer	adeq	94					
971.3	King Street E	Maybee Lane	Victory Street	0.1	4700	adeq	very good	adequate	asphalt	asphalt	adeq	20	6	adeq	adeq	adeq	storm sewer	adeq	95					
971.4	King Street E	Victory Street	Victoria Street	0.0	4700	adeq	very good	adequate	asphalt	asphalt	adeq	10.5	6	adeq	adeq	adeq	storm sewer	adeq	100					
975	King Street E	Victoria Street	Elgin Street	0.2	4700	adeq	good	resurface	asphalt	asphalt	adeq	10.5	6	adeq	adeq	adeq	storm sewer	adeq	85	R		6-10 years	$121,000	26
977	King Street E	Elgin Street	Kensington Avenue	0.2	4700	adeq	good	resurface	asphalt	asphalt	adeq	10.5	6	adeq	adeq	adeq	storm sewer	adeq	80	R		6-10 years	$116,000	32
980	King Street E	Kensington Avenue	Durham Street South	0.6	4700	adeq	good	resurface	asphalt	asphalt	adeq	10.2	6	adeq	adeq	adeq	storm sewer	adeq	76	R		6-10 years	$361,000	41
983	King Street E	Durham Street South	Janes Court	0.2	4700	adeq	good	resurface	asphalt	asphalt	adeq	10.2	6	adeq	adeq	adeq	storm sewer	adeq	82	R		6-10 years	$90,000	30
985.1	King Street E	Janes Court	Parliament Street	0.1	4700	adeq	good	adequate	asphalt	asphalt	adeq	10.2	6	adeq	adeq	adeq	storm sewer	adeq	88					
985.2	King Street E	Parliament Street	Spencer Street	0.2	4700	adeq	good	adequate	asphalt	asphalt	adeq	10.2	6	adeq	adeq	adeq	storm sewer	adeq	87					
989	King Street E	Spencer Street	Colton Street	0.4	4700	adeq	good	adequate	asphalt	asphalt	adeq	10.2	6	adeq	adeq	adeq	storm sewer	adeq	87					
992	King Street W	Ontario Street	Toronto Street	0.4	400	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	64	R		1-5 years	$200,000	33
NEW	King Street W	Toronto Street	Division Street	0.0	400	adeq	good	adequate	asphalt	asphalt	adeq	14.8	6	adeq	adeq	adeq	storm sewer	adeq	88					
971.1	King Street W	Division Street	Percy Street	0.0	400	adeq	very good	adequate	asphalt	asphalt	adeq	14.8	6	adeq	adeq	adeq	storm sewer	adeq	90					
1133.1	Lake Road	Telephone Road	Crandall Road	0.9	400	adeq	good	adequate	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	80					
1133.2	Lake Road	Crandall Road	McDonald Road	0.3	400	adeq	good	adequate	surface treated	surface treated	adeq	8.5	6	adeq	adeq	adeq	open ditch	adeq	84					
2889	Lake Road	McDonald Road	Pine Tree Lane	0.2	400	adeq	good	adequate	surface treated	surface treated	adeq	8.5	6	adeq	adeq	adeq	open ditch	adeq	87					
2883	Lake Road	Pine Tree Lane	Little Lake Road	0.5	400	adeq	good	adequate	surface treated	surface treated	adeq	8.5	6	adeq	adeq	adeq	open ditch	adeq	88					
1171	Lakeshore Road	Union Road	Cramahe Townahip Boundary (Kell	0.4	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	62	PR	+ ditch work	1-5 years	$70,000	30

Road Section Identification & Details						Deficiencies & Needs													Improvement Strategy					
Asset ID	Road Name	From	To	Length (km)	2023 AADT	Geometrics	Surface Condition		Surface Type			Surface Width			Shoulder	Capacity	Drainage		PCI	Road Improvement	Ditch Improvement	Time	Value	Priority Rating
						need	existing	need	existing	tolerable	need	existing	tolerable	need	need	need	existing	need						
2552	Lee Lane (Laneway)	Telephone Road	End of Road	0.3	49	adeq	fair	adequate	gravel	gravel	adeq	4	6	2.00	0.50	adeq	no ditch	now	71	maintenance only				
2589.1	Little Lake Road	County Road 2	Bailey Drive	1.0	400	adeq	fair	resurface	surface treated	surface treated	adeq	8	6	adeq	adeq	adeq	open ditch	adeq	75	PR		6-10 years	$490,000	23
2589.2	Little Lake Road	Bailey Drive	Bailey Drive	0.5	1000	adeq	very good	adequate	surface treated	asphalt	adeq	8	6	adeq	adeq	adeq	open ditch	adeq	97					
2589.3	Little Lake Road	Bailey Drive	Van Wicklin Lane	0.2	400	adeq	good	adequate	surface treated	surface treated	adeq	8	6	adeq	adeq	adeq	open ditch	adeq	87					
2589.4	Little Lake Road	Van Wicklin Lane	Van Wicklin Lane	0.1	400	adeq	good	adequate	surface treated	surface treated	adeq	8	6	adeq	adeq	adeq	open ditch	adeq	84					
2589.5	Little Lake Road	Van Wicklin Lane	Cedar Lane	0.1	400	adeq	good	adequate	surface treated	surface treated	adeq	8	6	adeq	adeq	adeq	open ditch	now	89					
2589.6	Little Lake Road	Cedar Lane	Purdy Road	0.3	400	adeq	good	resurface	surface treated	surface treated	adeq	8	6	adeq	adeq	adeq	open ditch	adeq	77	PR		6-10 years	$141,000	21
995	Little Lake Road	Purdy Road	Lake Road	1.0	1000	adeq	fair	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	73	PR		6-10 years	$493,000	31
1143.1	Little Lake Road	Lake Road	Ventress Road	0.4	1000	adeq	fair	resurface	surface treated	asphalt	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	70	PR		6-10 years	$184,000	34
1143.2	Little Lake Road	Ventress Road	Reddick Road	0.1	1000	adeq	fair	resurface	surface treated	asphalt	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	66	PR		1-5 years	$65,000	39
1143.3	Little Lake Road	Reddick Road	Trenear Road North	0.7	1000	adeq	fair	resurface	surface treated	asphalt	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	54	PR		1-5 years	$316,000	52
1141.1	Little Lake Road	Trenear Road North	Trenear Road	0.1	1000	adeq	fair	resurface	surface treated	asphalt	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	59	PR		1-5 years	$24,000	46
1141.2	Little Lake Road	Trenear Road	Cochrane Road	0.8	400	adeq	fair	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	56	PR		1-5 years	$353,000	40
1141.3	Little Lake Road	Cochrane Road	Fiddick Road	0.1	400	adeq	fair	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	68	PR		1-5 years	$24,000	29
1141.4	Little Lake Road	Fiddick Road	Twp Boundary	0.8	400	adeq	fair	resurface	surface treated	surface treated	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	53	PR		1-5 years	$326,000	43
817	Maple Grove Road	County Road 21	End of Road	1.2	49	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	66	maintenance only				
774	Massey Lane	County Road 27	End of Road	0.4	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	0.25	adeq	open ditch	now	79	maintenance only				
999	Maybee Lane	King Street East	Church Street East	0.1	49	adeq	fair	resurface	asphalt	asphalt	adeq	5.5	4.25	adeq	adeq	adeq	storm sewer	adeq	58	R		1-5 years	$50,000	26
NEW	Mensen Road	Penryn Road	Twp Boundary (Turn Around)	0.3	49	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	0.25	adeq	no ditch	now	68	maintenance only				
1001.1	Mill Street	County Road 25	Cedar Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	6.5	6	adeq	0.50	adeq	open ditch	adeq	64	PR		1-5 years	$90,000	28
1001.2	Mill Street	Cedar Street	End of Road	0.2	49	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	0.25	adeq	open ditch	adeq	66	maintenance only				
781.1	Mitchell Road	Concession Road 1	Red Cloud School Road	0.5	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	88	maintenance only				
781.2	Mitchell Road	Red Cloud School Road	920 m south of Red Cloud School R	0.9	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	76	maintenance only				
933.1	Mitchell Road	1350 m south of Red Cloud School	Stonehaven Road	0.8	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	open ditch	now	83	maintenance only				
933.2	Mitchell Road	Stonehaven Road	Campbell Road	0.7	49	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	61	maintenance only				
NEW	Mitchell Road (UNMAINTAINED)	920 m south of Red Cloud School R	1350 m south of Red Cloud School	0.4	49	adeq	poor	rehabilitate	gravel	gravel	adeq	3	6	3.00	0.50	adeq	no ditch	now	28	maintenance only				
809	Moore Road	Jakobi Road	Cramahe Township Boundary	0.4	200	adeq	good	adequate	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	now	86	WR	+ ditch work		$88,000	11
935	Morganston Road	Jakobi Road	Dawson Road	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	70	PR	+ ditch work	6-10 years	$137,000	23
981	Morganston Road	Dawson Road	Tait Road	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	67	PR	+ ditch work	1-5 years	$137,000	26
2306.1	Morganston Road	Tait Road	Kelly Drive	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	75	PR	+ ditch work	6-10 years	$137,000	20
2306.2	Morganston Road	Kelly Drive	Mount Pleasant Road	2.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	73	PR	+ ditch work	6-10 years	$323,000	21
987.1	Morganston Road	Mount Pleasant Road	Campbell Road	0.9	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	69	PR		1-5 years	$121,000	24
987.2	Morganston Road	Campbell Road	Stoney Lonesome Road	0.5	200	adeq	good	adequate	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	86					
987.3	Morganston Road	Stoney Lonesome Road	County Road 25	1.7	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	65	PR	+ ditch work	1-5 years	$305,000	27
993	Mount Pleasant Road	County Road 22	Tait Road	2.3	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	73	PR		6-10 years	$295,000	22
998.1	Mount Pleasant Road	Tait Road	Sunny Hill Drive	1.8	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	70	PR	+ ditch work	1-5 years	$313,000	24
998.2	Mount Pleasant Road	Sunny Hill Drive	Dingwall Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	72	PR	+ ditch work	6-10 years	$178,000	22
998.3	Mount Pleasant Road	Dingwall Road	Morganston Road	0.4	200	adeq	good	adequate	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	85					
825	Mutton Road	Telephone Road	County Road 21	1.9	100	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	open ditch	adeq	68					
812	Neil McGregor Road	Pipeline Road	935m S of Pipeline Road	0.9	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	open ditch	now	77	maintenance only				
1003	North Street	Victoria Street	Division Street	0.2	100	adeq	very good	adequate	asphalt	asphalt	adeq	8	6	adeq	adeq	adeq	storm sewer	adeq	93					
1008	Norton Lane	Percy Street	Toronto Street	0.1	100	adeq	fair	resurface	asphalt	gravel	adeq	5.2	4.25	adeq	0.50	adeq	storm sewer	now	62	PR	+ ditch work	1-5 years	$55,000	26
1013.1	Norway Street	Pine Street	County Road 25	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	7	6	adeq	0.50	adeq	no ditch	now	69	PR	+ ditch work	1-5 years	$113,000	24
1013.2	Norway Street	County Road 25	End of Road	0.1	49	adeq	fair	resurface	asphalt	gravel	adeq	6.5	6	adeq	0.50	adeq	open ditch	adeq	62	maintenance only				
1016	Oak Street	County Road 25	Pine Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	adeq	62	WR		1-5 years	$64,000	30
2550	Oak Street	County Road 25	End of Road	0.1	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	no ditch	now	77	maintenance only				
770	O'Grady Road	Darling Road	County Road 27	0.8	100	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	83					
2894	Old Percy Road (Castleton)	Gould Road	Spring Street	0.3	200	adeq	very good	adequate	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	90					
2897	Old Percy Road (Castleton)	Spring St	End of Road	0.4	49	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	no ditch	now	73	maintenance only				
2561	Old Percy Road (Castleton)	Old Shelter Valley Road	End of Road	0.4	49	adeq	fair	resurface	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	adeq	58	maintenance only				

Road Section Identification & Details						Deficiencies & Needs													Improvement Strategy					
Asset ID	Road Name	From	To	Length (km)	2023 AADT	Geometrics	Surface Condition		Surface Type			Surface Width			Shoulder	Capacity	Drainage		PCI	Road Improvement	Ditch Improvement	Time	Value	Priority Rating
						need	existing	need	existing	tolerable	need	existing	tolerable	need	need	need	existing	need						
1207	Old Percy Road (Colborne)	Toronto Street	End of Road	0.2	49	adeq	fair	adequate	gravel	gravel	adeq	5.5	6	0.50	0.50	adeq	open ditch	now	74	WR	+ ditch work		$37,000	16
1151	Old Rail Road	Fiddick Road	End of Road	0.4	49	adeq	fair	resurface	surface treated	gravel	adeq	4.5	6	1.50	adeq	adeq	open ditch	now	55	maintenance only				
1094.1	Old Shelter Valley Road	County Road 25	Old Percy Road	0.3	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	60	PR		1-5 years	$35,000	31
1094.2	Old Shelter Valley Road	Old Percy Road	Inglis Road	0.4	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	72	PR	+ ditch work	6-10 years	$64,000	22
1094.3	Old Shelter Valley Road	Inglis Road	Pipeline Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	58	PR	+ ditch work	1-5 years	$164,000	33
2553	Old Shelter Valley Road	Pipeline Road	End of Road	0.4	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	77	maintenance only				
846	Old Wharf Road	County Road 31	End of Road	0.4	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	open ditch	now	81	maintenance only				
2228	Ontario Street	County Road 2	Robertson Street	0.4	400	adeq	good	adequate	gravel	surface treated	now	6	6	adeq	adeq	adeq	open ditch	now	80					
1025.1	Ontario Street	Robertson Street	Church Street	0.1	400	adeq	fair	resurface	surface treated	surface treated	adeq	5.8	6	0.20	adeq	adeq	no ditch	now	70	WR	+ ditch work	6-10 years	$39,000	27
1025.2	Ontario Street	Church Street	King Street W	0.1	400	adeq	fair	resurface	surface treated	surface treated	adeq	5.8	6	0.20	adeq	adeq	open ditch	now	70	WR	+ ditch work	6-10 years	$42,000	27
1029	Ontario Street	King Street W	200 m north of Baldwin Place	0.2	400	adeq	fair	resurface	surface treated	surface treated	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	66	PR		1-5 years	$91,000	32
NEW	Ontario Street	200 m north of Baldwin Place	Baldwin Place	0.2	400	adeq	good	adequate	gravel	surface treated	now	6	6	adeq	adeq	adeq	open ditch	adeq	84					
1212	Ontario Street	Baldwin Place	Earl Street	0.4	400	adeq	good	adequate	gravel	surface treated	now	6	6	adeq	adeq	adeq	open ditch	now	89					
1147.1	Orchard Road	County Road 25	Big Apple Drive	0.4	700	adeq	fair	resurface	surface treated	surface treated	adeq	8	6	adeq	adeq	adeq	no ditch	now	62	PR	+ ditch work	1-5 years	$214,000	40
1147.2	Orchard Road	Big Apple Drive	Cramahe Township Boundary	0.8	400	adeq	fair	resurface	surface treated	surface treated	adeq	8	6	adeq	adeq	adeq	no ditch	now	62	PR	+ ditch work	1-5 years	$450,000	35
2226	Park Road	County Road 22	End of Road	0.6	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	76	maintenance only				
2531.1	Park Street E	Percy Street	Burnham Avenue	0.2	400	adeq	very good	adequate	asphalt	asphalt	adeq	6.5	6	adeq	adeq	adeq	storm sewer	adeq	100					
2531.2	Park Street E	Burnham Avenue	Elgin Street N	0.2	400	adeq	very good	adequate	asphalt	asphalt	adeq	6.5	6	adeq	adeq	adeq	storm sewer	adeq	94					
1035	Park Street W	Toronto Street	Percy Street	0.3	200	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	74	R		6-10 years	$153,000	20
2263	Parliament Street	King Street E	Scott Street	0.6	200	adeq	good	adequate	asphalt	asphalt	adeq	6.5	6	adeq	adeq	adeq	storm sewer	adeq	84					
1039	Parliament Street	Scott Street	560m N of Scott Street	0.6	200	adeq	fair	resurface	asphalt	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	64	PR		1-5 years	$246,000	28
1199	Parliament Street	560m N of Scott Street	Purdy Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	62	PR	+ ditch work	1-5 years	$173,000	30
802.1	Parsons Road	County Road 25	Pinewood School Road	0.9	100	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	69					
802.2	Parsons Road	Pinewood School Road	150m S of Pinewood School Road	0.2	49	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	72	maintenance only				
1157	Peacock Lane	County Road 2	County Road 2	0.4	49	adeq	fair	resurface	surface treated	gravel	adeq	5	6	1.00	adeq	adeq	no ditch	now	55	maintenance only				
2225	Penny Lane	Honey Road	End of Road	0.1	49	adeq	fair	resurface	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	now	63	maintenance only				
2375.1	Penryn Road	Tobacco Road	Wilce Road	0.3	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	60	PR	+ ditch work	1-5 years	$45,000	32
2375.2	Penryn Road	Wilce Road	Feeney Road	1.2	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	67	PR	+ ditch work	1-5 years	$209,000	26
2375.3	Penryn Road	Feeney Road	Shiloh Road	0.3	200	adeq	very good	adequate	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	95					
2375.4	Penryn Road	Shiloh Road	Gillespie Road	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	68	PR	+ ditch work	1-5 years	$30,000	25
2375.5	Penryn Road	Gillespie Road	Dale Road	2.2	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	76	PR	+ ditch work	6-10 years	$379,000	19
2375.6	Penryn Road	Dale Road	Mensen Road	0.5	200	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	0.25	adeq	no ditch	now	77					
1173	Peters Road	County Road 2	CN Cross Road	0.9	49	adeq	good	adequate	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	87	maintenance only				
2291	Peters Road	CN Cross Road	End of Road	0.9	200	adeq	fair	resurface	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	adeq	65	WR		1-5 years	$187,000	28
804	Phasey Road	County Road 25	End of Road	0.3	200	adeq	good	adequate	gravel	gravel	adeq	5.5	6	0.50	0.50	adeq	open ditch	adeq	77	WR			$68,000	18
771.1	Phillips Road	County Road 27	Hardy Lane	0.3	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	open ditch	adeq	89	maintenance only				
771.2	Phillips Road	Hardy Lane	End of Road	0.2	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	open ditch	adeq	86	maintenance only				
900	Pine Grove Road	County Road 25	Darling Road	2.5	200	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	73					
1049.1	Pine Street	County Road 22	Norway Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	adeq	adeq	no ditch	now	50	WR	+ ditch work	1-5 years	$86,000	39
1049.2	Pine Street	Norway Street	Oak Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	adeq	adeq	no ditch	now	53	WR	+ ditch work	1-5 years	$67,000	37
1049.3	Pine Street	Oak Street	End of Road	0.1	49	adeq	fair	resurface	asphalt	gravel	adeq	4.5	6	1.50	0.50	adeq	no ditch	now	45	maintenance only				
832	Pine Tree Lane	Lake Road	End of Road	0.4	49	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	no ditch	now	70	maintenance only				
800	Pinewood School Road	Parsons Road	Tobacco Road	1.3	100	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	0.25	adeq	no ditch	now	66					
801.1	Pinewood School Road	Tobacco Road	Huycke Road	0.9	100	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	0.25	adeq	open ditch	adeq	82					
801.2	Pinewood School Road	Huycke Road	Twp Boundary	2.7	100	2	good	adequate	gravel	gravel	adeq	6	6	adeq	0.25	adeq	open ditch	now	76					
2331	Pipeline Road	County Road 25	Old Shelter Valley Road	0.9	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	77	PR		6-10 years	$121,000	18
2560	Pipeline Road	Old Shelter Valley Road	125 m west of Old Shelter Valley R	0.1	200	adeq	good	adequate	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	87					
2625	Pipeline Road	125 m west of Old Shelter Valley R	Neil McGregor Road	0.3	200	adeq	good	adequate	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	87					
818	Pogue Road	County Road 21	End of Road	1.7	49	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	0.25	adeq	open ditch	now	62	maintenance only				
2267.1	Purdy Road	County Road 25	Industrial Park Road	0.4	1800	adeq	good	adequate	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	83					

Cramahe Road Needs Study 2023

Deficiencies & Improvements - By Road Section

Road Section Identification & Details						Deficiencies & Needs													Improvement Strategy					
Asset ID	Road Name	From	To	Length (km)	2023 AADT	Geometrics	Surface Condition		Surface Type			Surface Width			Shoulder	Capacity	Drainage		PCI	Road Improvement	Ditch Improvement	Time	Value	Priority Rating
						need	existing	need	existing	tolerable	need	existing	tolerable	need	need	need	existing	need						
2267.2	Purdy Road	Industrial Park Road	Elgin Street N	0.4	1800	adeq	fair	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	65	PR	+ ditch work	1-5 years	$234,000	46
2267.3	Purdy Road	Elgin Street N	Durham Street N	0.8	1800	adeq	good	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	76	PR	+ ditch work	6-10 years	$413,000	32
2376.1	Purdy Road	Durham Street N	Parliament Street	0.6	1800	adeq	good	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	79	PR		6-10 years	$293,000	28
2376.2	Purdy Road	Parliament Street	Arthurs Lane	1.0	1700	adeq	very good	adequate	surface treated	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	94					
2376.3	Purdy Road	Arthurs Lane	Jackson Drive	0.9	1800	adeq	very good	adequate	surface treated	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	95					
2376.4	Purdy Road	Jackson Drive	Little Lake Road	1.0	1800	adeq	good	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	79	PR		6-10 years	$467,000	27
785	Red Cloud School Road	Dawson Road	Smith Road	2.3	100	3	fair	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	open ditch	now	65					
786	Red Cloud School Road	Smith Road	Mitchell Road	1.2	100	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	no ditch	now	62					
833	Reddick Road	Little Lake Road	Private Road Section	0.7	200	adeq	fair	resurface	gravel	gravel	adeq	4.5	6	1.50	0.50	adeq	no ditch	now	53	WR	+ ditch work	now	$184,000	37
NEW	Riley Road	Moore Road	End of Road	0.2	49	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	no ditch	now	70	maintenance only				
1057	Robertson Street	Toronto Street	Ontario Street	0.3	400	adeq	good	resurface	asphalt	asphalt	adeq	6.5	6	adeq	adeq	adeq	storm sewer	adeq	75	R		6-10 years	$137,000	23
1059	Rotary Centennial Drive	Division Street	Parking Lot	0.1	200	adeq	fair	resurface	asphalt	gravel	adeq	6.7	6	adeq	adeq	adeq	open ditch	adeq	61	PR		1-5 years	$42,000	31
830.1	Samis Road	Telephone Road	200 m south of Telephone Road	0.2	49	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	0.25	adeq	no ditch	now	66	maintenance only				
830.3	Samis Road	250 m north of Honey Road	Honey Road	0.3	49	adeq	fair	adequate	gravel	gravel	adeq	5.5	6	0.50	0.50	adeq	no ditch	now	63	maintenance only				
830.2	Samis Road (UNMAINTAINED)	200 m south of Telephone Road	250 m north of Honey Road	0.8	49	adeq	poor	rehabilitate	gravel	gravel	adeq	4	6	2.00	0.50	adeq	no ditch	now	28	maintenance only				
1195	Scott Street	Durham Street N	Parliament Street	0.4	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	no ditch	now	63	PR	+ ditch work	1-5 years	$59,000	29
2555	Sheppard Lane (Laneway)	Haynes Road	End of Road	0.2	49	adeq	fair	adequate	gravel	gravel	adeq	3.5	6	2.50	0.50	adeq	no ditch	now	69	maintenance only				
1104	Shiloh Road	County Road 21	Penryn Road	1.9	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	72	PR		6-10 years	$267,000	22
1061	Simmons Street	Elgin Street South	Victoria Street	0.2	200	adeq	good	resurface	asphalt	asphalt	adeq	6.8	6	adeq	adeq	adeq	storm sewer	adeq	79	R		6-10 years	$96,000	16
1179	Simpson Road	Blythe Park Road	Colton Street	1.7	200	adeq	very good	adequate	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	100					
787	Smith Road	Red Cloud School Road	Cramahe Township Boundary	0.7	49	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	no ditch	now	70	maintenance only				
2606	Spencer Street	Parliament Street	17 Spencer Street	0.4	200	adeq	good	adequate	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	84					
2604	Spencer Street	17 Spencer Street	King Street E	0.2	200	adeq	very good	adequate	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	90					
2900	Spring Street	Old Percy Road	Cty Rd 25	0.1	200	adeq	good	adequate	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	no ditch	now	89					
779	Stonehaven Road	Concession Road 1	Mitchell Road	1.0	49	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	0.25	adeq	open ditch	adeq	87	maintenance only				
795.1	Stoney Lonesome Road	County Road 25	Combview Road	0.5	200	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	74					
795.2	Stoney Lonesome Road	Combview Road	Morganston Road	1.4	200	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	80					
795.3	Stoney Lonesome Road	Morganston Road	Campbell Road	0.1	200	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	75					
1065	Streamside Drive	Durham Street South	410m W of Durham Street South	0.4	200	adeq	fair	resurface	asphalt	gravel	adeq	6.8	6	adeq	adeq	adeq	open ditch	adeq	60	PR		1-5 years	$189,000	32
NEW	Streamside Drive	410m W of Durham Street South	Lillys Court	0.1	200	adeq	very good	adequate	asphalt	asphalt	adeq	8.4	6	adeq	adeq	adeq	storm sewer	adeq	100					
793	Sunny Hill Drive	Mount Pleasant Road	370m S of Mount Pleasant Road	0.4	49	adeq	fair	adequate	gravel	gravel	adeq	5.5	6	0.50	0.50	adeq	open ditch	now	69	maintenance only				
792	Tait Road	Mount Pleasant Road	Morganston Road	1.4	49	adeq	very good	adequate	gravel	gravel	adeq	6	6	adeq	0.25	adeq	open ditch	now	96	maintenance only				
791	Tait Road	Morganston Road	200 m north of Morganston Road	0.2	49	adeq	fair	adequate	gravel	gravel	adeq	4	6	2.00	0.50	adeq	open ditch	now	72	maintenance only				
2892.1	Telephone Road	County Road 25	Lee Lane	0.8	425	adeq	good	adequate	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	no ditch	now	88					
2892.2	Telephone Road	Lee Lane	Herley Road	0.8	425	adeq	good	adequate	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	85					
1112.1	Telephone Road	Herley Road	Burbridge Road	0.0	100	adeq	very good	adequate	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	93					
1112.2	Telephone Road	Burbridge Road	Samis Road	0.8	425	adeq	good	adequate	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	88					
1112.3	Telephone Road	Samis Road	Walker Road	0.0	425	adeq	very good	adequate	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	99					
1113.1	Telephone Road	Walker Road	Chapman Road	0.8	425	adeq	good	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	77	PR	+ ditch work	6-10 years	$429,000	21
1113.2	Telephone Road	Chapman Road	Honey Road	0.0	425	adeq	very good	adequate	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	100					
1113.3	Telephone Road	Honey Road	Trottman Road	0.8	425	adeq	good	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	78	PR	+ ditch work	6-10 years	$419,000	20
1113.4	Telephone Road	Trottman Road	Mutton Road	0.8	425	adeq	good	adequate	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	88					
1113.5	Telephone Road	Mutton Road	Lake Road	1.1	425	adeq	good	adequate	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	86					
1115.1	Telephone Road	Lake Road	Deele Road	0.5	425	adeq	good	adequate	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	88					
1115.2	Telephone Road	Deele Road	Ibbotson Road	1.6	425	adeq	good	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	80	PR		6-10 years	$780,000	19
1115.3	Telephone Road	Ibbotson Road	Waites Road	0.8	425	adeq	good	adequate	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	81					
1110	Telephone Road West	Twp Boundary	County Road 25	1.2	425	adeq	fair	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	no ditch	now	69	PR	+ ditch work	1-5 years	$638,000	29
1067	Thornlea Road	Arthur Street	End of Road	0.2	49	adeq	fair	resurface	asphalt	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	60	PR		1-5 years	$78,000	25
1005	Tobacco Road	Dingman Road	Pinewood School Road	2.1	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	65	PR		1-5 years	$289,000	28
1009.1	Tobacco Road	Pinewood School Road	Bonnett Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	62	PR		1-5 years	$139,000	30

Cramahe Road Needs Study 2023

Deficiencies & Improvements - By Road Section

Road Section Identification & Details						Deficiencies & Needs													Improvement Strategy					
Asset ID	Road Name	From	To	Length (km)	2023 AADT	Geometrics	Surface Condition		Surface Type			Surface Width			Shoulder	Capacity	Drainage		PCI	Road Improvement	Ditch Improvement	Time	Value	Priority Rating
						need	existing	need	existing	tolerable	need	existing	tolerable	need	need	need	existing	need						
1009.2	Tobacco Road	Bonnett Road	County Road 25	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	no ditch	now	65	PR	+ ditch work	1-5 years	$153,000	28
2544.1	Toronto Street	Ontario Street	Old Percy Road	0.1	4700	adeq	good	adequate	asphalt	asphalt	adeq	7.3	6	adeq	adeq	adeq	open ditch	now	85					
2544.2	Toronto Street	Old Percy Road	Park Street W	0.1	4700	adeq	good	adequate	asphalt	asphalt	adeq	9.4	6	adeq	adeq	adeq	storm sewer	adeq	88					
2546	Toronto Street	Park Street W	Norton Lane	0.3	4700	adeq	fair	resurface	asphalt	asphalt	adeq	9.4	6	adeq	adeq	adeq	storm sewer	adeq	73	R		1-5 years	$174,000	44
2541	Toronto Street	Norton Lane	Robertson Street	0.0	4700	adeq	good	adequate	asphalt	asphalt	adeq	12.1	6	adeq	adeq	adeq	storm sewer	adeq	88					
2542	Toronto Street	Robertson Street	Church Street W	0.1	4700	adeq	good	adequate	asphalt	asphalt	adeq	12.1	6	adeq	adeq	adeq	storm sewer	adeq	88					
2543	Toronto Street	Church Street W	King Street W	0.1	4700	adeq	good	adequate	asphalt	asphalt	adeq	13.3	6	adeq	adeq	adeq	storm sewer	adeq	87					
1165	Townline Road	County Road 31	County Road 2	2.4	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	74	PR	+ ditch work	6-10 years	$397,000	21
2597	Trenear Road	County Road 2	Trent Valley Drive	0.6	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	78	PR		6-10 years	$80,000	17
2289	Trenear Road	Trent Valley Drive	Little Lake Road	2.0	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	71	PR		6-10 years	$262,000	23
834	Trenear Road North	Little Lake Road	End of Road (Private Section)	0.8	200	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	0.25	adeq	open ditch	adeq	83					
840	Trent Valley Drive	Little Lake Road	Ventress Road	1.7	100	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	87					
841.1	Trent Valley Drive	Ventress Road	Trenear Road	1.1	100	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	81					
841.2	Trent Valley Drive	Trenear Road	End of Road	0.2	49	adeq	good	adequate	gravel	gravel	adeq	4.5	6	1.50	0.50	adeq	no ditch	now	79	maintenance only				
1108.1	Trottman Road	Telephone Road	Chapman Road	1.7	200	adeq	very good	adequate	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	93					
1108.2	Trottman Road	Chapman Road	Broomfield Road	0.1	200	adeq	very good	adequate	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	100					
1108.3	Trottman Road	Broomfield Road	County Road 21	0.1	200	adeq	very good	adequate	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	100					
2501	Union Road	County Road 2	Beach Drive	1.4	49	adeq	fair	resurface	surface treated	gravel	adeq	9	6	adeq	0.50	adeq	open ditch	adeq	68	maintenance only				
1169	Union Road	Beach Drive	End of Road	0.2	49	adeq	good	resurface	surface treated	gravel	adeq	5	6	1.00	adeq	adeq	open ditch	now	60	maintenance only				
805	Valley Road	Dingman Road	End of Road	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	4.5	6	1.50	adeq	adeq	open ditch	adeq	75	WR		6-10 years	$198,000	20
843	Van Wicklin Lane	Little Lake Road	Little Lake Road	0.2	49	adeq	fair	resurface	gravel	gravel	adeq	5.5	6	0.50	0.50	adeq	no ditch	now	60	maintenance only				
838	Ventress Road	Little Lake Road	150 m North of Trent Valley Drive	1.7	200	adeq	good	adequate	gravel	gravel	adeq	6	6	adeq	0.25	adeq	open ditch	now	82					
1155	Ventress Road	150 m North of Trent Valley Road	County Road 2	1.0	200	adeq	good	adequate	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	82					
1185	Victoria Beach Road	Colton Street	Durham Street South	0.8	200	adeq	very good	adequate	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	93					
1187	Victoria Beach Road	Durham Street South	Victoria Beach Road (Quarry Acces	0.6	400	adeq	fair	resurface	surface treated	surface treated	adeq	7.7	6	adeq	adeq	adeq	open ditch	now	71	PR	+ ditch work	6-10 years	$321,000	27
1191	Victoria Beach Road	Victoria Beach Road (Quarry Acces	End of Road	0.4	49	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	open ditch	now	73	maintenance only				
2237.1	Victoria Street	King Street E	Simmons Street	0.1	200	adeq	good	resurface	asphalt	asphalt	adeq	9	6	adeq	adeq	adeq	storm sewer	adeq	77	R		6-10 years	$78,000	18
2237.2	Victoria Street	Simmons Street	North Street	0.0	200	adeq	fair	resurface	asphalt	asphalt	adeq	9	6	adeq	adeq	adeq	storm sewer	adeq	75	R		6-10 years	$20,000	20
1083	Victoria Street	North Street	Creek Street	0.1	200	adeq	good	adequate	asphalt	asphalt	adeq	9	6	adeq	adeq	adeq	storm sewer	adeq	89					
1085	Victoria Street	Creek Street	Keeler Court (George Court)	0.1	200	adeq	good	adequate	asphalt	gravel	adeq	8.5	6	adeq	0.50	adeq	sewer & ditch	adeq	84					
3055	Victoria Street	Keeler Court (George Court)	Arthur Steet	0.0	200	adeq	very good	adequate	asphalt	gravel	adeq	8.5	6	adeq	adeq	adeq	open ditch	adeq	96					
1087	Victoria Street	Arthur Steet	Earl Street	0.4	200	adeq	good	adequate	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	81					
1089	Victoria Street	Earl Street	William Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	adeq	59	WR		1-5 years	$106,000	32
1201	Victoria Street	William Street	100 m South of William Street	0.1	100	adeq	good	adequate	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	adeq	81	WR			$33,000	13
858	Victoria Street	100 m South of William Street	End of Road	0.4	100	adeq	fair	adequate	gravel	gravel	adeq	5.5	6	0.50	0.50	adeq	open ditch	adeq	71	WR			$56,000	20
1091	Victory Street	King Street East	Church Street East	0.1	400	adeq	fair	resurface	asphalt	asphalt	adeq	6.1	4.25	adeq	adeq	adeq	storm sewer	adeq	70	R		1-5 years	$53,000	28
3085	Waites Road	County Road 21	Telephone Road	2.0	200	1	good	adequate	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	89					
828.1	Walker Road	County Road 21	300 m south of County Road 21	0.3	200	adeq	fair	adequate	gravel	gravel	adeq	6	6	adeq	0.50	adeq	open ditch	now	69					
828.2	Walker Road	300 m south of County Road 21	Telephone Road	1.7	49	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	61	maintenance only				
813	Wilce Road	Dingman Road	End of Road	0.5	49	adeq	fair	adequate	gravel	gravel	adeq	4.5	6	1.50	0.50	adeq	no ditch	now	66	maintenance only				
2596	William Street	Victoria Street	Ontario Street	0.6	200	adeq	good	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	77	PR	+ ditch work	6-10 years	$99,000	18
				225.5																			**$25,185,000**	

PR - pulverize and resurface with 1 or 2 lifts

R - resurface with 1 or 2 lifts

REC - reconstruction

WR - road widening & resurface

Appendix F:
Road Priority Ratings

Cramahe Road Needs Study 2023

Priority Rating - Highest to Lowest Priority (By Time of Improvement)

Road Section Identification & Details						Deficiencies & Needs													Improvement Strategy					
Asset ID	Road Name	From	To	Length (km)	2023 AADT	Geometrics	Surface Condition		Surface Type			Surface Width			Shoulder	Capacity	Drainage		PCI	Road Improve	Ditch Improve	Time	Value	Priority Rating
						need	existing	need	existing	tolerable	need	existing	tolerable	need	need	need	existing	need						
833	Reddick Road	Little Lake Road	Private Road Section	0.7	200	adeq	fair	resurface	gravel	gravel	adeq	4.5	6	1.50	0.50	adeq	no ditch	now	53	WR	+ ditch work	now	$184,000	37
912.1	Darling Road	Pine Grove Road	Hutchinson Road	0.7	200	adeq	fair	resurface	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	59	PR	+ ditch work	now	$104,000	32
1143.3	Little Lake Road	Reddick Road	Trenear Road North	0.7	1000	adeq	fair	resurface	surface treated	asphalt	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	54	PR		1-5 years	$316,000	52
1141.1	Little Lake Road	Trenear Road North	Trenear Road	0.1	1000	adeq	fair	resurface	surface treated	asphalt	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	59	PR		1-5 years	$24,000	46
2267.2	Purdy Road	Industrial Park Road	Elgin Street N	0.4	1800	adeq	fair	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	65	PR	+ ditch work	1-5 years	$234,000	46
2546	Toronto Street	Park Street W	Norton Lane	0.3	4700	adeq	fair	resurface	asphalt	asphalt	adeq	9.4	6	adeq	adeq	adeq	storm sewer	adeq	73	R		1-5 years	$174,000	44
1141.4	Little Lake Road	Fiddick Road	Twp Boundary	0.8	400	adeq	fair	resurface	surface treated	surface treated	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	53	PR		1-5 years	$326,000	43
1141.2	Little Lake Road	Trenear Road	Cochrane Road	0.8	400	adeq	fair	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	56	PR		1-5 years	$353,000	40
1147.1	Orchard Road	County Road 25	Big Apple Drive	0.4	700	adeq	fair	resurface	surface treated	surface treated	adeq	8	6	adeq	adeq	adeq	no ditch	now	62	PR	+ ditch work	1-5 years	$214,000	40
1175	Blyth Park Road	County Road 2	CN Cross Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	50	PR		1-5 years	$106,000	40
1049.1	Pine Street	County Road 22	Norway Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	adeq	adeq	no ditch	now	50	WR	+ ditch work	1-5 years	$86,000	39
1143.2	Little Lake Road	Ventress Road	Reddick Road	0.1	1000	adeq	fair	resurface	surface treated	asphalt	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	66	PR		1-5 years	$65,000	39
1131.2	Crandall Road	Dunk Road	Dean Road	0.6	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	52	PR	+ ditch work	1-5 years	$109,000	37
1049.2	Pine Street	Norway Street	Oak Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	adeq	adeq	no ditch	now	53	WR	+ ditch work	1-5 years	$67,000	37
2595	Durham Street N	Scott Street	700 m north of Scott Street	0.7	575	adeq	fair	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	63	PR		1-5 years	$334,000	36
2326	Durham Street N	700 m north of Scott Street	Purdy Road	0.8	575	adeq	fair	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	63	PR		1-5 years	$372,000	36
1147.2	Orchard Road	Big Apple Drive	Cramahe Township Boundary	0.8	400	adeq	fair	resurface	surface treated	surface treated	adeq	8	6	adeq	adeq	adeq	no ditch	now	62	PR	+ ditch work	1-5 years	$450,000	35
1135.3	Honey Road	Crandall Road	Penny Lane	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	56	PR	+ ditch work	1-5 years	$145,000	35
919	Church Street W	Ontario Street	Toronto Street	0.4	400	adeq	fair	resurface	asphalt	asphalt	adeq	8.7	6	adeq	adeq	adeq	storm sewer	adeq	63	R		1-5 years	$189,000	34
1017.3	Jakobi Road	Morganston Road	Dunbar Road	0.3	400	adeq	fair	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	now	63	PR	+ ditch work	1-5 years	$167,000	34
1209.1	Elgin Street N	Park Street E	Industrial Park Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	0.25	adeq	open ditch	adeq	57	PR		1-5 years	$106,000	34
2330	Hunt Road	Beach Drive	County Road 2	1.7	200	2	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	57	PR	+ ditch work	1-5 years	$272,000	34
1094.3	Old Shelter Valley Road	Inglis Road	Pipeline Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	58	PR	+ ditch work	1-5 years	$164,000	33
2307.2	Dingman Road	Valley Road	Tobacco Road	2.6	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	58	PR	+ ditch work	1-5 years	$444,000	33
992	King Street W	Ontario Street	Toronto Street	0.4	400	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	64	R		1-5 years	$200,000	33
906	Alfred Street	Elgin Street South	Kensington Street	0.2	200	adeq	fair	resurface	asphalt	asphalt	adeq	8	6	adeq	adeq	adeq	no ditch	now	59	R		1-5 years	$131,000	33
1089	Victoria Street	Earl Street	William Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	adeq	59	WR		1-5 years	$106,000	32
929	Church Street E	Victory Street	Elgin Street N	0.2	400	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	65	R		1-5 years	$125,000	32
1209.2	Elgin Street N	Industrial Park Road	Purdy Road	0.5	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	59	PR		1-5 years	$55,000	32
1203	Earl Street	Division Street	Victoria Street	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	60	PR	+ ditch work	1-5 years	$37,000	32
2375.1	Penryn Road	Tobacco Road	Wilce Road	0.3	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	60	PR	+ ditch work	1-5 years	$45,000	32
1065	Streamside Drive	Durham Street South	410m W of Durham Street South	0.4	200	adeq	fair	resurface	asphalt	gravel	adeq	6.8	6	adeq	adeq	adeq	open ditch	adeq	60	PR		1-5 years	$189,000	32
1029	Ontario Street	King Street W	200 m north of Baldwin Place	0.2	400	adeq	fair	resurface	surface treated	surface treated	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	66	PR		1-5 years	$91,000	32
909.1	Arthur Street	Division Street	Thornlea Road	0.1	200	adeq	fair	resurface	asphalt	gravel	adeq	7.5	6	adeq	0.50	adeq	no ditch	now	60	PR	+ ditch work	1-5 years	$61,000	32
1094.1	Old Shelter Valley Road	County Road 25	Old Percy Road	0.3	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	60	PR		1-5 years	$35,000	31
959	Industrial Park Road	Purdy Road	Elgin Street North	0.8	400	adeq	fair	resurface	asphalt	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	66	PR		1-5 years	$428,000	31
1059	Rotary Centennial Drive	Division Street	Parking Lot	0.1	200	adeq	fair	resurface	asphalt	gravel	adeq	6.7	6	adeq	adeq	adeq	open ditch	adeq	61	PR		1-5 years	$42,000	31
1171	Lakeshore Road	Union Road	Cramahe Townahip Boundary (Kelly	0.4	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	62	PR	+ ditch work	1-5 years	$70,000	30
1009.1	Tobacco Road	Pinewood School Road	Bonnett Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	62	PR		1-5 years	$139,000	30
1199	Parliament Street	560m N of Scott Street	Purdy Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	62	PR	+ ditch work	1-5 years	$173,000	30
1016	Oak Street	County Road 25	Pine Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	adeq	62	WR		1-5 years	$64,000	30
1017.1	Jakobi Road	County Road 22	Moore Road	2.3	400	adeq	fair	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	68	PR		1-5 years	$1,019,000	29
917	Cedar Street	Mill Street	County Road 25	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	63	PR	+ ditch work	1-5 years	$90,000	29
1195	Scott Street	Durham Street N	Parliament Street	0.4	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	no ditch	now	63	PR	+ ditch work	1-5 years	$59,000	29
1106	Broomfield Road	Trottman Road	County Road 21	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	no ditch	now	63	WR	+ ditch work	1-5 years	$40,000	29
1141.3	Little Lake Road	Cochrane Road	Fiddick Road	0.1	400	adeq	fair	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	68	PR		1-5 years	$24,000	29
1110	Telephone Road West	Twp Boundary	County Road 25	1.2	425	adeq	fair	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	no ditch	now	69	PR	+ ditch work	1-5 years	$638,000	29
1039	Parliament Street	Scott Street	560m N of Scott Street	0.6	200	adeq	fair	resurface	asphalt	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	64	PR		1-5 years	$246,000	28

Cramahe Road Needs Study 2023

Priority Rating - Highest to Lowest Priority (By Time of Improvement)

Road Section Identification & Details						Deficiencies & Needs													Improvement Strategy					
Asset ID	Road Name	From	To	Length (km)	2023 AADT	Geometrics	Surface Condition		Surface Type			Surface Width			Shoulder	Capacity	Drainage		PCI	Road Improve	Ditch Improve	Time	Value	Priority Rating
						need	existing	need	existing	tolerable	need	existing	tolerable	need	need	need	existing	need						
1001.1	Mill Street	County Road 25	Cedar Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	6.5	6	adeq	0.50	adeq	open ditch	adeq	64	PR		1-5 years	$90,000	28
2559	Dunbar Road	Jakobi Road	Clarkson Road	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	65	PR		1-5 years	$18,000	28
1091	Victory Street	King Street East	Church Street East	0.1	400	adeq	fair	resurface	asphalt	asphalt	adeq	6.1	4.25	adeq	adeq	adeq	storm sewer	adeq	70	R		1-5 years	$53,000	28
1005	Tobacco Road	Dingman Road	Pinewood School Road	2.1	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	65	PR		1-5 years	$289,000	28
2291	Peters Road	CN Cross Road	End of Road	0.9	200	adeq	fair	resurface	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	adeq	65	WR		1-5 years	$187,000	28
1009.2	Tobacco Road	Bonnett Road	County Road 25	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	no ditch	now	65	PR	+ ditch work	1-5 years	$153,000	28
1161	Keeler Road	County Road 25	County Road 25	0.3	49	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	0.25	adeq	no ditch	now	55	WR	+ ditch work	1-5 years	$95,000	27
987.3	Morganston Road	Stoney Lonesome Road	County Road 25	1.7	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	65	PR	+ ditch work	1-5 years	$305,000	27
981	Morganston Road	Dawson Road	Tait Road	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	67	PR	+ ditch work	1-5 years	$137,000	26
1008	Norton Lane	Percy Street	Toronto Street	0.1	100	adeq	fair	resurface	asphalt	gravel	adeq	5.2	4.25	adeq	0.50	adeq	storm sewer	now	62	PR	+ ditch work	1-5 years	$55,000	26
1131.3	Crandall Road	Dean Road	Lake Road	0.6	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	67	PR	+ ditch work	1-5 years	$107,000	26
2375.2	Penryn Road	Wilce Road	Feeney Road	1.2	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	67	PR	+ ditch work	1-5 years	$209,000	26
2335	Haynes Road	Sheppard Lane	Cowie Road	2.6	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	0.50	adeq	no ditch	now	67	PR	+ ditch work	1-5 years	$423,000	26
999	Maybee Lane	King Street East	Church Street East	0.1	49	adeq	fair	resurface	asphalt	asphalt	adeq	5.5	4.25	adeq	adeq	adeq	storm sewer	adeq	58	R		1-5 years	$50,000	26
909.2	Arthur Street	Thornlea Road	Victoria Street	0.1	200	adeq	fair	resurface	asphalt	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	68	PR		1-5 years	$46,000	26
2375.4	Penryn Road	Shiloh Road	Gillespie Road	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	68	PR	+ ditch work	1-5 years	$30,000	25
1135.1	Honey Road	Herley Road	Samis Road	0.9	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	no ditch	now	69	PR	+ ditch work	1-5 years	$156,000	25
1067	Thornlea Road	Arthur Street	End of Road	0.2	49	adeq	fair	resurface	asphalt	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	60	PR		1-5 years	$78,000	25
1137	Herley Road	Honey Road	Purdy Road	0.5	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	69	PR		1-5 years	$59,000	24
987.1	Morganston Road	Mount Pleasant Road	Campbell Road	0.9	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	69	PR		1-5 years	$121,000	24
1013.1	Norway Street	Pine Street	County Road 25	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	7	6	adeq	0.50	adeq	no ditch	now	69	PR	+ ditch work	1-5 years	$113,000	24
2307.1	Dingman Road	Cowie Road	Valley Road	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	70	PR		1-5 years	$102,000	24
998.1	Mount Pleasant Road	Tait Road	Sunny Hill Drive	1.8	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	70	PR	+ ditch work	1-5 years	$313,000	24
1135.2	Honey Road	Samis Road	Crandall Road	0.7	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	70	PR		1-5 years	$92,000	24
2373	Bonnett Road	Tobacco Road	County Road 25	1.0	100	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	0.25	adeq	open ditch	adeq	67	PR		1-5 years	$132,000	23
980	King Street E	Kensington Avenue	Durham Street South	0.6	4700	adeq	good	resurface	asphalt	asphalt	adeq	10.2	6	adeq	adeq	adeq	storm sewer	adeq	76	R		6-10 years	$361,000	41
1143.1	Little Lake Road	Lake Road	Ventress Road	0.4	1000	adeq	fair	resurface	surface treated	asphalt	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	70	PR		6-10 years	$184,000	34
977	King Street E	Elgin Street	Kensington Avenue	0.2	4700	adeq	good	resurface	asphalt	asphalt	adeq	10.5	6	adeq	adeq	adeq	storm sewer	adeq	80	R		6-10 years	$116,000	32
2267.3	Purdy Road	Elgin Street N	Durham Street N	0.8	1800	adeq	good	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	76	PR	+ ditch work	6-10 years	$413,000	32
995	Little Lake Road	Purdy Road	Lake Road	1.0	1000	adeq	fair	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	73	PR		6-10 years	$493,000	31
983	King Street E	Durham Street South	Janes Court	0.2	4700	adeq	good	resurface	asphalt	asphalt	adeq	10.2	6	adeq	adeq	adeq	storm sewer	adeq	82	R		6-10 years	$90,000	30
2376.1	Purdy Road	Durham Street N	Parliament Street	0.6	1800	adeq	good	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	79	PR		6-10 years	$293,000	28
1025.1	Ontario Street	Robertson Street	Church Street	0.1	400	adeq	fair	resurface	surface treated	surface treated	adeq	5.8	6	0.20	adeq	adeq	no ditch	now	70	WR	+ ditch work	6-10 years	$39,000	27
1025.2	Ontario Street	Church Street	King Street W	0.1	400	adeq	fair	resurface	surface treated	surface treated	adeq	5.8	6	0.20	adeq	adeq	open ditch	now	70	WR	+ ditch work	6-10 years	$42,000	27
2376.4	Purdy Road	Jackson Drive	Little Lake Road	1.0	1800	adeq	good	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	79	PR		6-10 years	$467,000	27
1187	Victoria Beach Road	Durham Street South	Victoria Beach Road (Quarry Acces	0.6	400	adeq	fair	resurface	surface treated	surface treated	adeq	7.7	6	adeq	adeq	adeq	open ditch	now	71	PR	+ ditch work	6-10 years	$321,000	27
2610.1	Durham Street S	King Street E	Streamside Drive	0.1	400	adeq	fair	resurface	asphalt	asphalt	adeq	7.8	6	adeq	adeq	adeq	storm sewer	adeq	71	R		6-10 years	$38,000	27
975	King Street E	Victoria Street	Elgin Street	0.2	4700	adeq	good	resurface	asphalt	asphalt	adeq	10.5	6	adeq	adeq	adeq	storm sewer	adeq	85	R		6-10 years	$121,000	26
953	Elgin Street N	King Street East	Church Street East	0.1	200	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	70	R		6-10 years	$63,000	23
935	Morganston Road	Jakobi Road	Dawson Road	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	70	PR	+ ditch work	6-10 years	$137,000	23
926.2	Church Street E	Maybee Lane	Burnham Avenue	0.1	400	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	75	R		6-10 years	$38,000	23
969	Kensington Avenue	King Street E	Alfred Street	0.3	200	adeq	fair	resurface	asphalt	asphalt	adeq	6.5	6	adeq	adeq	adeq	sewer & ditch	now	71	R		6-10 years	$192,000	23
2589.1	Little Lake Road	County Road 2	Bailey Drive	1.0	400	adeq	fair	resurface	surface treated	surface treated	adeq	8	6	adeq	adeq	adeq	open ditch	adeq	75	PR		6-10 years	$490,000	23
2289	Trenear Road	Trent Valley Drive	Little Lake Road	2.0	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	71	PR		6-10 years	$262,000	23
926.1	Church Street E	Percy Street	Maybee Lane	0.1	400	adeq	good	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	75	R		6-10 years	$50,000	23
1057	Robertson Street	Toronto Street	Ontario Street	0.3	400	adeq	good	resurface	asphalt	asphalt	adeq	6.5	6	adeq	adeq	adeq	storm sewer	adeq	75	R		6-10 years	$137,000	23
998.2	Mount Pleasant Road	Sunny Hill Drive	Dingwall Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	72	PR	+ ditch work	6-10 years	$178,000	22
1104	Shiloh Road	County Road 21	Penryn Road	1.9	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	72	PR		6-10 years	$267,000	22

Cramahe Road Needs Study 2023

Priority Rating - Highest to Lowest Priority (By Time of Improvement)

Road Section Identification & Details						Deficiencies & Needs													Improvement Strategy					
Asset ID	Road Name	From	To	Length (km)	2023 AADT	Geometrics	Surface Condition		Surface Type			Surface Width			Shoulder	Capacity	Drainage		PCI	Road Improve	Ditch Improve	Time	Value	Priority Rating
						need	existing	need	existing	tolerable	need	existing	tolerable	need	need	need	existing	need						
1094.2	Old Shelter Valley Road	Old Percy Road	Inglis Road	0.4	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	72	PR	+ ditch work	6-10 years	$64,000	22
2325	Barnes Road	Beach Drive	County Road 2	1.7	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	72	PR	+ ditch work	6-10 years	$260,000	22
1149.1	Fiddick Road	Little Lake Road	Old Rail Road	2.7	200	4	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	73	PR		6-10 years	$359,000	22
993	Mount Pleasant Road	County Road 22	Tait Road	2.3	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	73	PR		6-10 years	$295,000	22
2306.2	Morganston Road	Kelly Drive	Mount Pleasant Road	2.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	73	PR	+ ditch work	6-10 years	$323,000	21
2589.6	Little Lake Road	Cedar Lane	Purdy Road	0.3	400	adeq	good	resurface	surface treated	surface treated	adeq	8	6	adeq	adeq	adeq	open ditch	adeq	77	PR		6-10 years	$141,000	21
1113.1	Telephone Road	Walker Road	Chapman Road	0.8	425	adeq	good	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	77	PR	+ ditch work	6-10 years	$429,000	21
957.2	Gould Road	Depaepe Court	Old Percy Road	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	7.5	6	adeq	0.50	adeq	no ditch	now	73	PR	+ ditch work	6-10 years	$100,000	21
1165	Townline Road	County Road 31	County Road 2	2.4	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	74	PR	+ ditch work	6-10 years	$397,000	21
1035	Park Street W	Toronto Street	Percy Street	0.3	200	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	74	R		6-10 years	$153,000	20
1017.2	Jakobi Road	Moore Road	Morganston Road	0.9	400	adeq	good	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	now	78	PR	+ ditch work	6-10 years	$420,000	20
1135.4	Honey Road	Penny Lane	Telephone Road	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	74	PR		6-10 years	$24,000	20
1113.3	Telephone Road	Honey Road	Trottman Road	0.8	425	adeq	good	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	78	PR	+ ditch work	6-10 years	$419,000	20
2306.1	Morganston Road	Tait Road	Kelly Drive	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	75	PR	+ ditch work	6-10 years	$137,000	20
805	Valley Road	Dingman Road	End of Road	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	4.5	6	1.50	adeq	adeq	open ditch	adeq	75	WR		6-10 years	$198,000	20
2237.2	Victoria Street	Simmons Street	North Street	0.0	200	adeq	fair	resurface	asphalt	asphalt	adeq	9	6	adeq	adeq	adeq	storm sewer	adeq	75	R		6-10 years	$20,000	20
1163	Kelwood Lane	County Road 25	105 Kelwood Lane	0.3	200	adeq	good	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	75	PR		6-10 years	$32,000	20
965	Kelwood Lane	105 Kelwood Lane	Cul-de-Sac	0.4	200	adeq	good	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	75	PR		6-10 years	$48,000	20
778.1	Campbell Road	Clarke Road	Mitchell Road	0.3	100	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	72	PR	+ ditch work	6-10 years	$44,000	19
1139.1	Brighton-Cramahe Boundary Road	County Road 2	Hillview Road	0.4	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	75	PR	+ ditch work	6-10 years	$80,000	19
2375.5	Penryn Road	Gillespie Road	Dale Road	2.2	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	76	PR	+ ditch work	6-10 years	$379,000	19
1115.2	Telephone Road	Deele Road	Ibbotson Road	1.6	425	adeq	good	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	80	PR		6-10 years	$780,000	19
2336	Cowie Road	County Road 21	Dingman Road	2.9	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	76	PR		6-10 years	$368,000	19
2331	Pipeline Road	County Road 25	Old Shelter Valley Road	0.9	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	77	PR		6-10 years	$121,000	18
2596	William Street	Victoria Street	Ontario Street	0.6	200	adeq	good	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	77	PR	+ ditch work	6-10 years	$99,000	18
2333	Beach Drive	Hunt Road	Barnes Road	1.1	200	adeq	good	resurface	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	now	77	WR	+ ditch work	6-10 years	$240,000	18
2237.1	Victoria Street	King Street E	Simmons Street	0.1	200	adeq	good	resurface	asphalt	asphalt	adeq	9	6	adeq	adeq	adeq	storm sewer	adeq	77	R		6-10 years	$78,000	18
1139.2	Brighton-Cramahe Boundary Road	Hillview Road	Little Lake Road	2.0	200	adeq	good	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	77	PR		6-10 years	$241,000	18
912.2	Darling Road	Hutchinson Road	Cramahe Township Boundary	0.3	200	adeq	good	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	77	PR	+ ditch work	6-10 years	$50,000	18
955.2	Elgin Street S	Simmons Street	Alfred Street	0.2	200	adeq	good	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	78	R		6-10 years	$89,000	18
2597	Trenear Road	County Road 2	Trent Valley Drive	0.6	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	78	PR		6-10 years	$80,000	17
2262	Elgin Street S	Alfred Street	End of Road	0.4	200	adeq	good	resurface	asphalt	asphalt	adeq	6.9	6	adeq	adeq	adeq	storm sewer	adeq	78	R		6-10 years	$180,000	17
957.1	Gould Road	County Road 22	Depaepe Court	0.3	49	adeq	fair	resurface	asphalt	gravel	adeq	7.5	6	adeq	0.50	adeq	open ditch	adeq	72	PR		6-10 years	$167,000	17
1061	Simmons Street	Elgin Street South	Victoria Street	0.2	200	adeq	good	resurface	asphalt	asphalt	adeq	6.8	6	adeq	adeq	adeq	storm sewer	adeq	79	R		6-10 years	$96,000	16
961	Jane's Court	King Street East	End of Road	0.2	200	adeq	good	resurface	asphalt	asphalt	adeq	8.6	6	adeq	adeq	adeq	storm sewer	adeq	80	R		6-10 years	$112,000	16
1023.1	Clarkson Road	Dunbar Road	Hagarty Road	1.2	100	adeq	good	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	78	PR	+ ditch work	6-10 years	$188,000	15
2997	Dekseyer Road	300 m west of County Road 25	Neil McGreggor Road	1.0	100	adeq	good	resurface	surface treated	gravel	adeq	8.5	6	adeq	adeq	adeq	open ditch	adeq	78	PR		6-10 years	$168,000	15
858	Victoria Street	100 m South of William Street	End of Road	0.4	100	adeq	fair	adequate	gravel	gravel	adeq	5.5	6	0.50	0.50	adeq	open ditch	adeq	71	WR			$56,000	20
804	Phasey Road	County Road 25	End of Road	0.3	200	adeq	good	adequate	gravel	gravel	adeq	5.5	6	0.50	0.50	adeq	open ditch	adeq	77	WR			$68,000	18
1207	Old Percy Road (Colborne)	Toronto Street	End of Road	0.2	49	adeq	fair	adequate	gravel	gravel	adeq	5.5	6	0.50	0.50	adeq	open ditch	now	74	WR	+ ditch work		$37,000	16
2328	Beach Drive	Union Road	Hunt Road	1.0	200	adeq	good	adequate	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	now	80	WR	+ ditch work		$207,000	16
1201	Victoria Street	William Street	100 m South of William Street	0.1	100	adeq	good	adequate	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	adeq	81	WR			$33,000	13
809	Moore Road	Jakobi Road	Cramahe Township Boundary	0.4	200	adeq	good	adequate	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	now	86	WR	+ ditch work		$88,000	11
				225.5																			**$25,185,000**	

PR - pulverize and resurface with 1 or 2 lifts

R - resurface with 1 or 2 lifts

REC - reconstruction

WR - road widening & resurface

Appendix G:
Road Priority Guide Numbers

Cramahe Road Needs Study 2023

Priority Guide Number - Highest to Lowest Priority

Road Section Identification & Details						Deficiencies & Needs													Improvement Strategy						
Asset ID	Road Name	From	To	Length (km)	2023 AADT	Geometrics	Surface Condition		Surface Type			Surface Width			Shoulder	Capacity	Drainage		PCI	Road Improve	Ditch Improve	Time	Value	Priority Rating	Priority Guide Number
						need	existing	need	existing	tolerable	need	existing	tolerable	need	need	need	existing	need							
2546	Toronto Street	Park Street W	Norton Lane	0.3	4700	adeq	fair	resurface	asphalt	asphalt	adeq	9.4	6	adeq	adeq	adeq	storm sewer	adeq	73.47	R		1-5 years	$174,000	44	92
980	King Street E	Kensington Avenue	Durham Street South	0.6	4700	adeq	good	resurface	asphalt	asphalt	adeq	10.2	6	adeq	adeq	adeq	storm sewer	adeq	75.55	R		6-10 years	$361,000	41	80
977	King Street E	Elgin Street	Kensington Avenue	0.2	4700	adeq	good	resurface	asphalt	asphalt	adeq	10.5	6	adeq	adeq	adeq	storm sewer	adeq	80.48	R		6-10 years	$116,000	32	63
983	King Street E	Durham Street South	Janes Court	0.2	4700	adeq	good	resurface	asphalt	asphalt	adeq	10.2	6	adeq	adeq	adeq	storm sewer	adeq	81.99	R		6-10 years	$90,000	30	59
975	King Street E	Victoria Street	Elgin Street	0.2	4700	adeq	good	resurface	asphalt	asphalt	adeq	10.5	6	adeq	adeq	adeq	storm sewer	adeq	84.61	R		6-10 years	$121,000	26	50
2267.2	Purdy Road	Industrial Park Road	Elgin Street N	0.4	1800	adeq	fair	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	64.82	PR	+ ditch work	1-5 years	$234,000	46	47
1143.3	Little Lake Road	Reddick Road	Trenear Road North	0.7	1000	adeq	fair	resurface	surface treated	asphalt	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	54.34	PR		1-5 years	$316,000	52	39
1175	Blyth Park Road	County Road 2	CN Cross Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	49.68	PR		1-5 years	$106,000	40	38
1141.1	Little Lake Road	Trenear Road North	Trenear Road	0.1	1000	adeq	fair	resurface	surface treated	asphalt	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	59.30	PR		1-5 years	$24,000	46	35
1209.1	Elgin Street N	Park Street E	Industrial Park Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	0.25	adeq	open ditch	adeq	56.58	PR		1-5 years	$106,000	34	32
2267.3	Purdy Road	Elgin Street N	Durham Street N	0.8	1800	adeq	good	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	75.93	PR	+ ditch work	6-10 years	$413,000	32	32
2376.1	Purdy Road	Durham Street N	Parliament Street	0.6	1800	adeq	good	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	78.96	PR		6-10 years	$293,000	28	31
1143.2	Little Lake Road	Ventress Road	Reddick Road	0.1	1000	adeq	fair	resurface	surface treated	asphalt	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	65.69	PR		1-5 years	$65,000	39	30
2376.4	Purdy Road	Jackson Drive	Little Lake Road	1.0	1800	adeq	good	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	79.34	PR		6-10 years	$467,000	27	30
1094.1	Old Shelter Valley Road	County Road 25	Old Percy Road	0.3	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	60.02	PR		1-5 years	$35,000	31	30
1209.2	Elgin Street N	Industrial Park Road	Purdy Road	0.5	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	59.30	PR		1-5 years	$55,000	32	28
2559	Dunbar Road	Jakobi Road	Clarkson Road	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	64.55	PR		1-5 years	$18,000	28	26
1143.1	Little Lake Road	Lake Road	Ventress Road	0.4	1000	adeq	fair	resurface	surface treated	asphalt	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	70.25	PR		6-10 years	$184,000	34	26
1009.1	Tobacco Road	Pinewood School Road	Bonnett Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	61.86	PR		1-5 years	$139,000	30	23
2330	Hunt Road	Beach Drive	County Road 2	1.7	200	2	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	57.38	PR	+ ditch work	1-5 years	$272,000	34	22
1131.2	Crandall Road	Dunk Road	Dean Road	0.6	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	52.41	PR	+ ditch work	1-5 years	$109,000	37	22
1094.3	Old Shelter Valley Road	Inglis Road	Pipeline Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	57.54	PR	+ ditch work	1-5 years	$164,000	33	22
995	Little Lake Road	Purdy Road	Lake Road	1.0	1000	adeq	fair	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	73.09	PR		6-10 years	$493,000	31	22
912.1	Darling Road	Pine Grove Road	Hutchinson Road	0.7	200	adeq	fair	resurface	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	58.88	PR	+ ditch work	now	$104,000	32	22
1005	Tobacco Road	Dingman Road	Pinewood School Road	2.1	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	64.58	PR		1-5 years	$289,000	28	21
1135.3	Honey Road	Crandall Road	Penny Lane	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	55.94	PR	+ ditch work	1-5 years	$145,000	35	21
2307.1	Dingman Road	Cowie Road	Valley Road	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	69.55	PR		1-5 years	$102,000	24	20
2307.2	Dingman Road	Valley Road	Tobacco Road	2.6	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	58.02	PR	+ ditch work	1-5 years	$444,000	33	20
1137	Herley Road	Honey Road	Purdy Road	0.5	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	68.91	PR		1-5 years	$59,000	24	20
1135.2	Honey Road	Samis Road	Crandall Road	0.7	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	69.82	PR		1-5 years	$92,000	24	19
1147.1	Orchard Road	County Road 25	Big Apple Drive	0.4	700	adeq	fair	resurface	surface treated	surface treated	adeq	8	6	adeq	adeq	adeq	no ditch	now	61.54	PR	+ ditch work	1-5 years	$214,000	40	19
2375.1	Penryn Road	Tobacco Road	Wilce Road	0.3	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	59.62	PR	+ ditch work	1-5 years	$45,000	32	19
1171	Lakeshore Road	Union Road	Cramahe Townahip Boundary (Kell	0.4	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	61.83	PR	+ ditch work	1-5 years	$70,000	30	19
1203	Earl Street	Division Street	Victoria Street	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	59.55	PR	+ ditch work	1-5 years	$37,000	32	19
2289	Trenear Road	Trent Valley Drive	Little Lake Road	2.0	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	70.96	PR		6-10 years	$262,000	23	19
2326	Durham Street N	700 m north of Scott Street	Purdy Road	0.8	575	adeq	fair	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	63.41	PR		1-5 years	$372,000	36	19
2595	Durham Street N	Scott Street	700 m north of Scott Street	0.7	575	adeq	fair	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	63.41	PR		1-5 years	$334,000	36	19
1141.4	Little Lake Road	Fiddick Road	Twp Boundary	0.8	400	adeq	fair	resurface	surface treated	surface treated	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	52.89	PR		1-5 years	$326,000	43	19
1195	Scott Street	Durham Street N	Parliament Street	0.4	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	no ditch	now	62.82	PR	+ ditch work	1-5 years	$59,000	29	18
987.1	Morganston Road	Mount Pleasant Road	Campbell Road	0.9	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	69.38	PR		1-5 years	$121,000	24	18
1199	Parliament Street	560m N of Scott Street	Purdy Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	62.02	PR	+ ditch work	1-5 years	$173,000	30	18
993	Mount Pleasant Road	County Road 22	Tait Road	2.3	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	72.62	PR		6-10 years	$295,000	22	18
1149.1	Fiddick Road	Little Lake Road	Old Rail Road	2.7	200	4	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	72.52	PR		6-10 years	$359,000	22	17
965	Kelwood Lane	105 Kelwood Lane	Cul-de-Sac	0.4	200	adeq	good	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	75.17	PR		6-10 years	$48,000	20	17
1163	Kelwood Lane	County Road 25	105 Kelwood Lane	0.3	200	adeq	good	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	75.17	PR		6-10 years	$32,000	20	17
1104	Shiloh Road	County Road 21	Penryn Road	1.9	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	71.83	PR		6-10 years	$267,000	22	17
981	Morganston Road	Dawson Road	Tait Road	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	66.51	PR	+ ditch work	1-5 years	$137,000	26	17
1131.3	Crandall Road	Dean Road	Lake Road	0.6	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	66.83	PR	+ ditch work	1-5 years	$107,000	26	16
1135.4	Honey Road	Penny Lane	Telephone Road	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	74.23	PR		6-10 years	$24,000	20	16
2335	Haynes Road	Sheppard Lane	Cowie Road	2.6	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	0.50	adeq	no ditch	now	67.10	PR	+ ditch work	1-5 years	$423,000	26	16

Cramahe Road Needs Study 2023

Priority Guide Number - Highest to Lowest Priority

Road Section Identification & Details						Deficiencies & Needs													Improvement Strategy						
Asset ID	Road Name	From	To	Length (km)	2023 AADT	Geometrics	Surface Condition		Surface Type			Surface Width			Shoulder	Capacity	Drainage		PCI	Road Improve	Ditch Improve	Time	Value	Priority Rating	Priority Guide Number
						need	existing	need	existing	tolerable	need	existing	tolerable	need	need	need	existing	need							
1139.2	Brighton-Cramahe Boundary Road	Hillview Road	Little Lake Road	2.0	200	adeq	good	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	77.07	PR		6-10 years	$241,000	18	16
1009.2	Tobacco Road	Bonnett Road	County Road 25	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	no ditch	now	65.06	PR	+ ditch work	1-5 years	$153,000	28	16
2375.2	Penryn Road	Wilce Road	Feeney Road	1.2	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	66.83	PR	+ ditch work	1-5 years	$209,000	26	16
987.3	Morganston Road	Stoney Lonesome Road	County Road 25	1.7	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	65.17	PR	+ ditch work	1-5 years	$305,000	27	16
2336	Cowie Road	County Road 21	Dingman Road	2.9	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	75.93	PR		6-10 years	$368,000	19	15
2375.4	Penryn Road	Shiloh Road	Gillespie Road	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	67.97	PR	+ ditch work	1-5 years	$30,000	25	15
1141.2	Little Lake Road	Trenear Road	Cochrane Road	0.8	400	adeq	fair	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	55.94	PR		1-5 years	$353,000	40	15
1094.2	Old Shelter Valley Road	Old Percy Road	Inglis Road	0.4	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	72.01	PR	+ ditch work	6-10 years	$64,000	22	15
1135.1	Honey Road	Herley Road	Samis Road	0.9	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	no ditch	now	68.76	PR	+ ditch work	1-5 years	$156,000	25	15
935	Morganston Road	Jakobi Road	Dawson Road	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	70.43	PR	+ ditch work	6-10 years	$137,000	23	15
833	Reddick Road	Little Lake Road	Private Road Section	0.7	200	adeq	fair	resurface	gravel	gravel	adeq	4.5	6	1.50	0.50	adeq	no ditch	now	53.37	WR	+ ditch work	now	$184,000	37	15
2325	Barnes Road	Beach Drive	County Road 2	1.7	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	72.33	PR	+ ditch work	6-10 years	$260,000	22	15
2331	Pipeline Road	County Road 25	Old Shelter Valley Road	0.9	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	76.69	PR		6-10 years	$121,000	18	15
1106	Broomfield Road	Trottman Road	County Road 21	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	no ditch	now	63.24	WR	+ ditch work	1-5 years	$40,000	29	14
998.1	Mount Pleasant Road	Tait Road	Sunny Hill Drive	1.8	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	69.64	PR	+ ditch work	1-5 years	$313,000	24	14
1025.1	Ontario Street	Robertson Street	Church Street	0.1	400	adeq	fair	resurface	surface treated	surface treated	adeq	5.8	6	0.20	adeq	adeq	no ditch	now	70.03	WR	+ ditch work	6-10 years	$39,000	27	14
1025.2	Ontario Street	Church Street	King Street W	0.1	400	adeq	fair	resurface	surface treated	surface treated	adeq	5.8	6	0.20	adeq	adeq	open ditch	now	70.35	WR	+ ditch work	6-10 years	$42,000	27	14
2597	Trenear Road	County Road 2	Trent Valley Drive	0.6	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	78.21	PR		6-10 years	$80,000	17	14
1029	Ontario Street	King Street W	200 m north of Baldwin Place	0.2	400	adeq	fair	resurface	surface treated	surface treated	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	65.52	PR		1-5 years	$91,000	32	14
2291	Peters Road	CN Cross Road	End of Road	0.9	200	adeq	fair	resurface	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	adeq	64.64	WR		1-5 years	$187,000	28	14
2306.2	Morganston Road	Kelly Drive	Mount Pleasant Road	2.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	72.90	PR	+ ditch work	6-10 years	$323,000	21	13
998.2	Mount Pleasant Road	Sunny Hill Drive	Dingwall Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	71.76	PR	+ ditch work	6-10 years	$178,000	22	13
1165	Townline Road	County Road 31	County Road 2	2.4	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	73.66	PR	+ ditch work	6-10 years	$397,000	21	13
2306.1	Morganston Road	Tait Road	Kelly Drive	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	74.79	PR	+ ditch work	6-10 years	$137,000	20	13
2596	William Street	Victoria Street	Ontario Street	0.6	200	adeq	good	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	76.69	PR	+ ditch work	6-10 years	$99,000	18	12
912.2	Darling Road	Hutchinson Road	Cramahe Township Boundary	0.3	200	adeq	good	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	77.07	PR	+ ditch work	6-10 years	$50,000	18	12
1017.3	Jakobi Road	Morganston Road	Dunbar Road	0.3	400	adeq	fair	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	now	62.66	PR	+ ditch work	1-5 years	$167,000	34	12
2375.5	Penryn Road	Gillespie Road	Dale Road	2.2	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	75.52	PR	+ ditch work	6-10 years	$379,000	19	12
1139.1	Brighton-Cramahe Boundary Road	County Road 2	Hillview Road	0.4	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	75.36	PR	+ ditch work	6-10 years	$80,000	19	11
1017.1	Jakobi Road	County Road 22	Moore Road	2.3	400	adeq	fair	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	67.97	PR		1-5 years	$1,019,000	29	11
919	Church Street W	Ontario Street	Toronto Street	0.4	400	adeq	fair	resurface	asphalt	asphalt	adeq	8.7	6	adeq	adeq	adeq	storm sewer	adeq	62.54	R		1-5 years	$189,000	34	11
1049.1	Pine Street	County Road 22	Norway Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	adeq	adeq	no ditch	now	50.39	WR	+ ditch work	1-5 years	$86,000	39	11
2373	Bonnett Road	Tobacco Road	County Road 25	1.0	100	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	0.25	adeq	open ditch	adeq	66.75	PR		1-5 years	$132,000	23	11
1147.2	Orchard Road	Big Apple Drive	Cramahe Township Boundary	0.8	400	adeq	fair	resurface	surface treated	surface treated	adeq	8	6	adeq	adeq	adeq	no ditch	now	61.54	PR	+ ditch work	1-5 years	$450,000	35	11
1141.3	Little Lake Road	Cochrane Road	Fiddick Road	0.1	400	adeq	fair	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	68.50	PR		1-5 years	$24,000	29	11
992	King Street W	Ontario Street	Toronto Street	0.4	400	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	64.29	R		1-5 years	$200,000	33	11
1091	Victory Street	King Street East	Church Street East	0.1	400	adeq	fair	resurface	asphalt	asphalt	adeq	6.1	4.25	adeq	adeq	adeq	storm sewer	adeq	69.55	R		1-5 years	$53,000	28	11
929	Church Street E	Victory Street	Elgin Street N	0.2	400	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	64.94	R		1-5 years	$125,000	32	10
959	Industrial Park Road	Purdy Road	Elgin Street North	0.8	400	adeq	fair	resurface	asphalt	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	65.69	PR		1-5 years	$428,000	31	10
1049.2	Pine Street	Norway Street	Oak Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	adeq	adeq	no ditch	now	52.97	WR	+ ditch work	1-5 years	$67,000	37	10
858	Victoria Street	100 m South of William Street	End of Road	0.4	100	adeq	fair	adequate	gravel	gravel	adeq	5.5	6	0.50	0.50	adeq	open ditch	adeq	71.06	WR			$56,000	20	10
1110	Telephone Road West	Twp Boundary	County Road 25	1.2	425	adeq	fair	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	no ditch	now	68.99	PR	+ ditch work	1-5 years	$638,000	29	10
2610.1	Durham Street S	King Street E	Streamside Drive	0.1	400	adeq	fair	resurface	asphalt	asphalt	adeq	7.8	6	adeq	adeq	adeq	storm sewer	adeq	71.01	R		6-10 years	$38,000	27	10
2333	Beach Drive	Hunt Road	Barnes Road	1.1	200	adeq	good	resurface	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	now	76.88	WR	+ ditch work	6-10 years	$240,000	18	9
804	Phasey Road	County Road 25	End of Road	0.3	200	adeq	good	adequate	gravel	gravel	adeq	5.5	6	0.50	0.50	adeq	open ditch	adeq	77.10	WR			$68,000	18	9
1187	Victoria Beach Road	Durham Street South	Victoria Beach Road (Quarry Acces	0.6	400	adeq	fair	resurface	surface treated	surface treated	adeq	7.7	6	adeq	adeq	adeq	open ditch	now	70.96	PR	+ ditch work	6-10 years	$321,000	27	8
1016	Oak Street	County Road 25	Pine Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	adeq	62.18	WR		1-5 years	$64,000	30	8
1057	Robertson Street	Toronto Street	Ontario Street	0.3	400	adeq	good	resurface	asphalt	asphalt	adeq	6.5	6	adeq	adeq	adeq	storm sewer	adeq	75.34	R		6-10 years	$137,000	23	8
778.1	Campbell Road	Clarke Road	Mitchell Road	0.3	100	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	71.66	PR	+ ditch work	6-10 years	$44,000	19	8
805	Valley Road	Dingman Road	End of Road	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	4.5	6	1.50	adeq	adeq	open ditch	adeq	74.79	WR		6-10 years	$198,000	20	8

Cramahe Road Needs Study 2023

Priority Guide Number - Highest to Lowest Priority

Road Section Identification & Details						Deficiencies & Needs													Improvement Strategy						
Asset ID	Road Name	From	To	Length (km)	2023 AADT	Geometrics	Surface Condition		Surface Type			Surface Width			Shoulder	Capacity	Drainage		PCI	Road Improve	Ditch Improve	Time	Value	Priority Rating	Priority Guide Number
						need	existing	need	existing	tolerable	need	existing	tolerable	need	need	need	existing	need							
2328	Beach Drive	Union Road	Hunt Road	1.0	200	adeq	good	adequate	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	now	80.10	WR	+ ditch work		$207,000	16	8
2589.1	Little Lake Road	County Road 2	Bailey Drive	1.0	400	adeq	fair	resurface	surface treated	surface treated	adeq	8	6	adeq	adeq	adeq	open ditch	adeq	74.98	PR		6-10 years	$490,000	23	8
926.2	Church Street E	Maybee Lane	Burnham Avenue	0.1	400	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	74.64	R		6-10 years	$38,000	23	8
926.1	Church Street E	Percy Street	Maybee Lane	0.1	400	adeq	good	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	75.17	R		6-10 years	$50,000	23	7
1113.1	Telephone Road	Walker Road	Chapman Road	0.8	425	adeq	good	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	77.45	PR	+ ditch work	6-10 years	$429,000	21	7
1115.2	Telephone Road	Deele Road	Ibbotson Road	1.6	425	adeq	good	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	79.53	PR		6-10 years	$780,000	19	7
1065	Streamside Drive	Durham Street South	410m W of Durham Street South	0.4	200	adeq	fair	resurface	asphalt	gravel	adeq	6.8	6	adeq	adeq	adeq	open ditch	adeq	59.78	PR		1-5 years	$189,000	32	7
917	Cedar Street	Mill Street	County Road 25	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	62.82	PR	+ ditch work	1-5 years	$90,000	29	7
2589.6	Little Lake Road	Cedar Lane	Purdy Road	0.3	400	adeq	good	resurface	surface treated	surface treated	adeq	8	6	adeq	adeq	adeq	open ditch	adeq	76.92	PR		6-10 years	$141,000	21	7
1059	Rotary Centennial Drive	Division Street	Parking Lot	0.1	200	adeq	fair	resurface	asphalt	gravel	adeq	6.7	6	adeq	adeq	adeq	open ditch	adeq	61.22	PR		1-5 years	$42,000	31	7
1017.2	Jakobi Road	Moore Road	Morganston Road	0.9	400	adeq	good	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	now	77.83	PR	+ ditch work	6-10 years	$420,000	20	7
1113.3	Telephone Road	Honey Road	Trottman Road	0.8	425	adeq	good	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	78.39	PR	+ ditch work	6-10 years	$419,000	20	7
1001.1	Mill Street	County Road 25	Cedar Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	6.5	6	adeq	0.50	adeq	open ditch	adeq	64.26	PR		1-5 years	$90,000	28	7
1039	Parliament Street	Scott Street	560m N of Scott Street	0.6	200	adeq	fair	resurface	asphalt	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	63.94	PR		1-5 years	$246,000	28	7
1023.1	Clarkson Road	Dunbar Road	Hagarty Road	1.2	100	adeq	good	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	78.21	PR	+ ditch work	6-10 years	$188,000	15	6
2997	Dekseyer Road	300 m west of County Road 25	Neil McGreggor Road	1.0	100	adeq	good	resurface	surface treated	gravel	adeq	8.5	6	adeq	adeq	adeq	open ditch	adeq	78.39	PR		6-10 years	$168,000	15	6
1089	Victoria Street	Earl Street	William Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	adeq	58.85	WR		1-5 years	$106,000	32	6
909.2	Arthur Street	Thornlea Road	Victoria Street	0.1	200	adeq	fair	resurface	asphalt	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	67.59	PR		1-5 years	$46,000	26	6
909.1	Arthur Street	Division Street	Thornlea Road	0.1	200	adeq	fair	resurface	asphalt	gravel	adeq	7.5	6	adeq	0.50	adeq	no ditch	now	59.90	PR	+ ditch work	1-5 years	$61,000	32	6
809	Moore Road	Jakobi Road	Cramahe Township Boundary	0.4	200	adeq	good	adequate	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	now	86.03	WR	+ ditch work		$88,000	11	5
1013.1	Norway Street	Pine Street	County Road 25	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	7	6	adeq	0.50	adeq	no ditch	now	69.38	PR	+ ditch work	1-5 years	$113,000	24	5
906	Alfred Street	Elgin Street South	Kensington Street	0.2	200	adeq	fair	resurface	asphalt	asphalt	adeq	8	6	adeq	adeq	adeq	no ditch	now	59	R		1-5 years	$131,000	33	5
953	Elgin Street N	King Street East	Church Street East	0.1	200	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	70.25	R		6-10 years	$63,000	23	5
1008	Norton Lane	Percy Street	Toronto Street	0.1	100	adeq	fair	resurface	asphalt	gravel	adeq	5.2	4.25	adeq	0.50	adeq	storm sewer	now	61.70	PR	+ ditch work	1-5 years	$55,000	26	4
1035	Park Street W	Toronto Street	Percy Street	0.3	200	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	74.04	R		6-10 years	$153,000	20	4
957.2	Gould Road	Depaepe Court	Old Percy Road	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	7.5	6	adeq	0.50	adeq	no ditch	now	73.41	PR	+ ditch work	6-10 years	$100,000	21	4
969	Kensington Avenue	King Street E	Alfred Street	0.3	200	adeq	fair	resurface	asphalt	asphalt	adeq	6.5	6	adeq	adeq	adeq	sewer & ditch	now	70.61	R		6-10 years	$192,000	23	4
2237.2	Victoria Street	Simmons Street	North Street	0.0	200	adeq	fair	resurface	asphalt	asphalt	adeq	9	6	adeq	adeq	adeq	storm sewer	adeq	74.79	R		6-10 years	$20,000	20	4
2262	Elgin Street S	Alfred Street	End of Road	0.4	200	adeq	good	resurface	asphalt	asphalt	adeq	6.9	6	adeq	adeq	adeq	storm sewer	adeq	78.39	R		6-10 years	$180,000	17	4
1061	Simmons Street	Elgin Street South	Victoria Street	0.2	200	adeq	good	resurface	asphalt	asphalt	adeq	6.8	6	adeq	adeq	adeq	storm sewer	adeq	79.15	R		6-10 years	$96,000	16	4
955.2	Elgin Street S	Simmons Street	Alfred Street	0.2	200	adeq	good	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	77.64	R		6-10 years	$89,000	18	4
2237.1	Victoria Street	King Street E	Simmons Street	0.1	200	adeq	good	resurface	asphalt	asphalt	adeq	9	6	adeq	adeq	adeq	storm sewer	adeq	76.88	R		6-10 years	$78,000	18	4
1207	Old Percy Road (Colborne)	Toronto Street	End of Road	0.2	49	adeq	fair	adequate	gravel	gravel	adeq	5.5	6	0.50	0.50	adeq	open ditch	now	73.72	WR	+ ditch work		$37,000	16	3
961	Jane's Court	King Street East	End of Road	0.2	200	adeq	good	resurface	asphalt	asphalt	adeq	8.6	6	adeq	adeq	adeq	storm sewer	adeq	79.96	R		6-10 years	$112,000	16	3
1201	Victoria Street	William Street	100 m South of William Street	0.1	100	adeq	good	adequate	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	adeq	80.67	WR			$33,000	13	3
1161	Keeler Road	County Road 25	County Road 25	0.3	49	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	0.25	adeq	no ditch	now	55.26	WR	+ ditch work	1-5 years	$95,000	27	2
999	Maybee Lane	King Street East	Church Street East	0.1	49	adeq	fair	resurface	asphalt	asphalt	adeq	5.5	4.25	adeq	adeq	adeq	storm sewer	adeq	58.02	R		1-5 years	$50,000	26	2
1067	Thornlea Road	Arthur Street	End of Road	0.2	49	adeq	fair	resurface	asphalt	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	60.08	PR		1-5 years	$78,000	25	2
957.1	Gould Road	County Road 22	Depaepe Court	0.3	49	adeq	fair	resurface	asphalt	gravel	adeq	7.5	6	adeq	0.50	adeq	open ditch	adeq	72.36	PR		6-10 years	$167,000	17	1
				1243.2																			**$25,185,000**		

PR - pulverize and resurface with 1 or 2 lifts

R - resurface with 1 or 2 lifts

REC - reconstruction

WR - road widening & resurface

Appendix H:
Road Implementation Plan

Cramahe Road Needs Study 2023

Ranking & Rating			Road Section Identification & Details						Deficiencies & Needs													Improvement Strategy					
Rank	Year	Priority Guide Number	Asset ID	Road Name	From	To	Length (km)	2023 AADT	Geometrics	Surface Condition		Surface Type			Surface Width			Shoulder	Capacity	Drainage		PCI	Road Improve	Ditch Improve	Time	Value	Priority Rating
									need	existing	need	existing	tolerable	need	existing	tolerable	need	need	need	existing	need						
The following roads have "Now" needs and thus have been prioritized, ranked based on Pavement Condition Index (PCI) and Priority Guide Number																											
1	1	15	833	Reddick Road	Little Lake Road	Private Road Section	0.7	200	adeq	fair	resurface	gravel	gravel	adeq	4.5	6	1.50	0.50	adeq	no ditch	now	53	WR	+ ditch work	now	$184,000	37
2	1	22	912.1	Darling Road	Pine Grove Road	Hutchinson Road	0.7	200	adeq	fair	resurface	gravel	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	59	PR	+ ditch work	now	$104,000	32
The following roads have been prioritized based on Priority Guide Number (PGN)																											
3	1	39	1143.3	Little Lake Road	Reddick Road	Trenear Road North	0.7	1000	adeq	fair	resurface	surface treated	asphalt	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	54	PR		1-5 years	$316,000	52
4	1	35	1141.1	Little Lake Road	Trenear Road North	Trenear Road	0.1	1000	adeq	fair	resurface	surface treated	asphalt	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	59	PR		1-5 years	$24,000	46
5	1	47	2267.2	Purdy Road	Industrial Park Road	Elgin Street N	0.4	1800	adeq	fair	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	65	PR	+ ditch work	1-5 years	$234,000	46
6	1	92	2546	Toronto Street	Park Street W	Norton Lane	0.3	4700	adeq	fair	resurface	asphalt	asphalt	adeq	9.4	6	adeq	adeq	adeq	storm sewer	adeq	73	R		1-5 years	$174,000	44
7	1	19	1141.4	Little Lake Road	Fiddick Road	Twp Boundary	0.8	400	adeq	fair	resurface	surface treated	surface treated	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	53	PR		1-5 years	$326,000	43
8	1	80	980	King Street E	Kensington Avenue	Durham Street South	0.6	4700	adeq	good	resurface	asphalt	asphalt	adeq	10.2	6	adeq	adeq	adeq	storm sewer	adeq	76	R		6-10 years	$361,000	41
9	1	15	1141.2	Little Lake Road	Trenear Road	Cochrane Road	0.8	400	adeq	fair	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	56	PR		1-5 years	$353,000	40
10	1	19	1147.1	Orchard Road	County Road 25	Big Apple Drive	0.4	700	adeq	fair	resurface	surface treated	surface treated	adeq	8	6	adeq	adeq	adeq	no ditch	now	62	PR	+ ditch work	1-5 years	$214,000	40
11	1	38	1175	Blyth Park Road	County Road 2	CN Cross Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	50	PR		1-5 years	$106,000	40
12	1	11	1049.1	Pine Street	County Road 22	Norway Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	adeq	adeq	no ditch	now	50	WR	+ ditch work	1-5 years	$86,000	39
13	1	30	1143.2	Little Lake Road	Ventress Road	Reddick Road	0.1	1000	adeq	fair	resurface	surface treated	asphalt	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	66	PR		1-5 years	$65,000	39
14	2	22	1131.2	Crandall Road	Dunk Road	Dean Road	0.6	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	52	PR	+ ditch work	1-5 years	$109,000	37
15	2	10	1049.2	Pine Street	Norway Street	Oak Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	adeq	adeq	no ditch	now	53	WR	+ ditch work	1-5 years	$67,000	37
16	2	19	2595	Durham Street N	Scott Street	700 m north of Scott Street	0.7	575	adeq	fair	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	63	PR		1-5 years	$334,000	36
17	2	19	2326	Durham Street N	700 m north of Scott Street	Purdy Road	0.8	575	adeq	fair	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	63	PR		1-5 years	$372,000	36
18	2	11	1147.2	Orchard Road	Big Apple Drive	Cramahe Township Boundary	0.8	400	adeq	fair	resurface	surface treated	surface treated	adeq	8	6	adeq	adeq	adeq	no ditch	now	62	PR	+ ditch work	1-5 years	$450,000	35
19	2	21	1135.3	Honey Road	Crandall Road	Penny Lane	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	56	PR	+ ditch work	1-5 years	$145,000	35
20	2	11	919	Church Street W	Ontario Street	Toronto Street	0.4	400	adeq	fair	resurface	asphalt	asphalt	adeq	8.7	6	adeq	adeq	adeq	storm sewer	adeq	63	R		1-5 years	$189,000	34
21	2	12	1017.3	Jakobi Road	Morganston Road	Dunbar Road	0.3	400	adeq	fair	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	now	63	PR	+ ditch work	1-5 years	$167,000	34
22	2	32	1209.1	Elgin Street N	Park Street E	Industrial Park Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	0.25	adeq	open ditch	adeq	57	PR		1-5 years	$106,000	34
23	2	26	1143.1	Little Lake Road	Lake Road	Ventress Road	0.4	1000	adeq	fair	resurface	surface treated	asphalt	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	70	PR		6-10 years	$184,000	34
24	2	22	2330	Hunt Road	Beach Drive	County Road 2	1.7	200	2	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	57	PR	+ ditch work	1-5 years	$272,000	34
25	2	22	1094.3	Old Shelter Valley Road	Inglis Road	Pipeline Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	58	PR	+ ditch work	1-5 years	$164,000	33
26	3	20	2307.2	Dingman Road	Valley Road	Tobacco Road	2.6	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	58	PR	+ ditch work	1-5 years	$444,000	33
27	3	11	992	King Street W	Ontario Street	Toronto Street	0.4	400	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	64	R		1-5 years	$200,000	33
28	3	5	906	Alfred Street	Elgin Street South	Kensington Street	0.2	200	adeq	fair	resurface	asphalt	asphalt	adeq	8	6	adeq	adeq	adeq	no ditch	now	59	R		1-5 years	$131,000	33
29	3	63	977	King Street E	Elgin Street	Kensington Avenue	0.2	4700	adeq	good	resurface	asphalt	asphalt	adeq	10.5	6	adeq	adeq	adeq	storm sewer	adeq	80	R		6-10 years	$116,000	32
30	3	6	1089	Victoria Street	Earl Street	William Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	adeq	59	WR		1-5 years	$106,000	32
31	3	10	929	Church Street E	Victory Street	Elgin Street N	0.2	400	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	65	R		1-5 years	$125,000	32
32	3	28	1209.2	Elgin Street N	Industrial Park Road	Purdy Road	0.5	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	59	PR		1-5 years	$55,000	32
33	3	19	1203	Earl Street	Division Street	Victoria Street	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	60	PR	+ ditch work	1-5 years	$37,000	32
34	3	19	2375.1	Penryn Road	Tobacco Road	Wilce Road	0.3	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	60	PR	+ ditch work	1-5 years	$45,000	32
35	3	7	1065	Streamside Drive	Durham Street South	410m W of Durham Street South	0.4	200	adeq	fair	resurface	asphalt	gravel	adeq	6.8	6	adeq	adeq	adeq	open ditch	adeq	60	PR		1-5 years	$189,000	32
36	3	14	1029	Ontario Street	King Street W	200 m north of Baldwin Place	0.2	400	adeq	fair	resurface	surface treated	surface treated	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	66	PR		1-5 years	$91,000	32
37	3	6	909.1	Arthur Street	Division Street	Thornlea Road	0.1	200	adeq	fair	resurface	asphalt	gravel	adeq	7.5	6	adeq	0.50	adeq	no ditch	now	60	PR	+ ditch work	1-5 years	$61,000	32
38	3	32	2267.3	Purdy Road	Elgin Street N	Durham Street N	0.8	1800	adeq	good	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	76	PR	+ ditch work	6-10 years	$413,000	32
39	3	30	1094.1	Old Shelter Valley Road	County Road 25	Old Percy Road	0.3	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	60	PR		1-5 years	$35,000	31
40	3	10	959	Industrial Park Road	Purdy Road	Elgin Street North	0.8	400	adeq	fair	resurface	asphalt	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	66	PR		1-5 years	$428,000	31
41	4	22	995	Little Lake Road	Purdy Road	Lake Road	1.0	1000	adeq	fair	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	73	PR		6-10 years	$493,000	31
42	4	7	1059	Rotary Centennial Drive	Division Street	Parking Lot	0.1	200	adeq	fair	resurface	asphalt	gravel	adeq	6.7	6	adeq	adeq	adeq	open ditch	adeq	61	PR		1-5 years	$42,000	31
43	4	19	1171	Lakeshore Road	Union Road	Cramahe Townahip Boundary (Kelly	0.4	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	62	PR	+ ditch work	1-5 years	$70,000	30
44	4	23	1009.1	Tobacco Road	Pinewood School Road	Bonnett Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	62	PR		1-5 years	$139,000	30
45	4	18	1199	Parliament Street	560m N of Scott Street	Purdy Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	62	PR	+ ditch work	1-5 years	$173,000	30
46	4	59	983	King Street E	Durham Street South	Janes Court	0.2	4700	adeq	good	resurface	asphalt	asphalt	adeq	10.2	6	adeq	adeq	adeq	storm sewer	adeq	82	R		6-10 years	$90,000	30
47	4	8	1016	Oak Street	County Road 25	Pine Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	adeq	62	WR		1-5 years	$64,000	30
48	4	11	1017.1	Jakobi Road	County Road 22	Moore Road	2.3	400	adeq	fair	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	68	PR		1-5 years	$1,019,000	29
49	4	7	917	Cedar Street	Mill Street	County Road 25	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	63	PR	+ ditch work	1-5 years	$90,000	29
50	4	18	1195	Scott Street	Durham Street N	Parliament Street	0.4	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	no ditch	now	63	PR	+ ditch work	1-5 years	$59,000	29

Cramahe Road Needs Study 2023

Ranking & Rating			Road Section Identification & Details						Deficiencies & Needs													Improvement Strategy					
Rank	Year	Priority Guide Number	Asset ID	Road Name	From	To	Length (km)	2023 AADT	Geometrics	Surface Condition		Surface Type			Surface Width			Shoulder	Capacity	Drainage		PCI	Road Improve	Ditch Improve	Time	Value	Priority Rating
									need	existing	need	existing	tolerable	need	existing	tolerable	need	need	need	existing	need						
51	4	14	1106	Broomfield Road	Trottman Road	County Road 21	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	no ditch	now	63	WR	+ ditch work	1-5 years	$40,000	29
52	4	11	1141.3	Little Lake Road	Cochrane Road	Fiddick Road	0.1	400	adeq	fair	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	68	PR		1-5 years	$24,000	29
53	5	10	1110	Telephone Road West	Twp Boundary	County Road 25	1.2	425	adeq	fair	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	no ditch	now	69	PR	+ ditch work	1-5 years	$638,000	29
54	5	7	1039	Parliament Street	Scott Street	560m N of Scott Street	0.6	200	adeq	fair	resurface	asphalt	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	64	PR		1-5 years	$246,000	28
55	5	7	1001.1	Mill Street	County Road 25	Cedar Street	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	6.5	6	adeq	0.50	adeq	open ditch	adeq	64	PR		1-5 years	$90,000	28
56	5	26	2559	Dunbar Road	Jakobi Road	Clarkson Road	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	65	PR		1-5 years	$18,000	28
57	5	11	1091	Victory Street	King Street East	Church Street East	0.1	400	adeq	fair	resurface	asphalt	asphalt	adeq	6.1	4.25	adeq	adeq	adeq	storm sewer	adeq	70	R		1-5 years	$53,000	28
58	5	21	1005	Tobacco Road	Dingman Road	Pinewood School Road	2.1	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	65	PR		1-5 years	$289,000	28
59	5	14	2291	Peters Road	CN Cross Road	End of Road	0.9	200	adeq	fair	resurface	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	adeq	65	WR		1-5 years	$187,000	28
60	5	31	2376.1	Purdy Road	Durham Street N	Parliament Street	0.6	1800	adeq	good	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	79	PR		6-10 years	$293,000	28
61	5	16	1009.2	Tobacco Road	Bonnett Road	County Road 25	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	no ditch	now	65	PR	+ ditch work	1-5 years	$153,000	28
62	5	2	1161	Keeler Road	County Road 25	County Road 25	0.3	49	adeq	fair	resurface	asphalt	gravel	adeq	5.5	6	0.50	0.25	adeq	no ditch	now	55	WR	+ ditch work	1-5 years	$95,000	27
63	5	14	1025.1	Ontario Street	Robertson Street	Church Street	0.1	400	adeq	fair	resurface	surface treated	surface treated	adeq	5.8	6	0.20	adeq	adeq	no ditch	now	70	WR	+ ditch work	6-10 years	$39,000	27
64	5	16	987.3	Morganston Road	Stoney Lonesome Road	County Road 25	1.7	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	65	PR	+ ditch work	1-5 years	$305,000	27
65	5	14	1025.2	Ontario Street	Church Street	King Street W	0.1	400	adeq	fair	resurface	surface treated	surface treated	adeq	5.8	6	0.20	adeq	adeq	open ditch	now	70	WR	+ ditch work	6-10 years	$42,000	27
66	5	10	2610.1	Durham Street S	King Street E	Streamside Drive	0.1	400	adeq	fair	resurface	asphalt	asphalt	adeq	7.8	6	adeq	adeq	adeq	storm sewer	adeq	71	R		6-10 years	$38,000	27
67	5	17	981	Morganston Road	Dawson Road	Tait Road	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	67	PR	+ ditch work	1-5 years	$137,000	26
68	5	4	1008	Norton Lane	Percy Street	Toronto Street	0.1	100	adeq	fair	resurface	asphalt	gravel	adeq	5.2	4.25	adeq	0.50	adeq	storm sewer	now	62	PR	+ ditch work	1-5 years	$55,000	26
69	6	30	2376.4	Purdy Road	Jackson Drive	Little Lake Road	1.0	1800	adeq	good	resurface	asphalt	asphalt	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	79	PR		6-10 years	$467,000	27
70	6	8	1187	Victoria Beach Road	Durham Street South	Victoria Beach Road (Quarry Acces	0.6	400	adeq	fair	resurface	surface treated	surface treated	adeq	7.7	6	adeq	adeq	adeq	open ditch	now	71	PR	+ ditch work	6-10 years	$321,000	27
71	6	16	1131.3	Crandall Road	Dean Road	Lake Road	0.6	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	67	PR	+ ditch work	1-5 years	$107,000	26
72	6	16	2375.2	Penryn Road	Wilce Road	Feeney Road	1.2	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	67	PR	+ ditch work	1-5 years	$209,000	26
73	6	16	2335	Haynes Road	Sheppard Lane	Cowie Road	2.6	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	0.50	adeq	no ditch	now	67	PR	+ ditch work	1-5 years	$423,000	26
74	6	2	999	Maybee Lane	King Street East	Church Street East	0.1	49	adeq	fair	resurface	asphalt	asphalt	adeq	5.5	4.25	adeq	adeq	adeq	storm sewer	adeq	58	R		1-5 years	$50,000	26
75	6	50	975	King Street E	Victoria Street	Elgin Street	0.2	4700	adeq	good	resurface	asphalt	asphalt	adeq	10.5	6	adeq	adeq	adeq	storm sewer	adeq	85	R		6-10 years	$121,000	26
76	6	6	909.2	Arthur Street	Thornlea Road	Victoria Street	0.1	200	adeq	fair	resurface	asphalt	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	68	PR		1-5 years	$46,000	26
77	6	15	2375.4	Penryn Road	Shiloh Road	Gillespie Road	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	68	PR	+ ditch work	1-5 years	$30,000	25
78	6	15	1135.1	Honey Road	Herley Road	Samis Road	0.9	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	no ditch	now	69	PR	+ ditch work	1-5 years	$156,000	25
79	6	2	1067	Thornlea Road	Arthur Street	End of Road	0.2	49	adeq	fair	resurface	asphalt	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	adeq	60	PR		1-5 years	$78,000	25
80	6	20	1137	Herley Road	Honey Road	Purdy Road	0.5	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	69	PR		1-5 years	$59,000	24
81	6	18	987.1	Morganston Road	Mount Pleasant Road	Campbell Road	0.9	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	69	PR		1-5 years	$121,000	24
82	6	5	1013.1	Norway Street	Pine Street	County Road 25	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	7	6	adeq	0.50	adeq	no ditch	now	69	PR	+ ditch work	1-5 years	$113,000	24
83	6	20	2307.1	Dingman Road	Cowie Road	Valley Road	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	70	PR		1-5 years	$102,000	24
84	6	19	1135.2	Honey Road	Samis Road	Crandall Road	0.7	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	70	PR		1-5 years	$92,000	24
85	7	14	998.1	Mount Pleasant Road	Tait Road	Sunny Hill Drive	1.8	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	70	PR	+ ditch work	1-5 years	$313,000	24
86	7	5	953	Elgin Street N	King Street East	Church Street East	0.1	200	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	70	R		6-10 years	$63,000	23
87	7	15	935	Morganston Road	Jakobi Road	Dawson Road	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	70	PR	+ ditch work	6-10 years	$137,000	23
88	7	8	926.2	Church Street E	Maybee Lane	Burnham Avenue	0.1	400	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	75	R		6-10 years	$38,000	23
89	7	4	969	Kensington Avenue	King Street E	Alfred Street	0.3	200	adeq	fair	resurface	asphalt	asphalt	adeq	6.5	6	adeq	adeq	adeq	sewer & ditch	now	71	R		6-10 years	$192,000	23
90	7	8	2589.1	Little Lake Road	County Road 2	Bailey Drive	1.0	400	adeq	fair	resurface	surface treated	surface treated	adeq	8	6	adeq	adeq	adeq	open ditch	adeq	75	PR		6-10 years	$490,000	23
91	7	11	2373	Bonnett Road	Tobacco Road	County Road 25	1.0	100	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	0.25	adeq	open ditch	adeq	67	PR		1-5 years	$132,000	23
92	7	19	2289	Trenear Road	Trent Valley Drive	Little Lake Road	2.0	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	71	PR		6-10 years	$262,000	23
93	7	7	926.1	Church Street E	Percy Street	Maybee Lane	0.1	400	adeq	good	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	75	R		6-10 years	$50,000	23
94	7	8	1057	Robertson Street	Toronto Street	Ontario Street	0.3	400	adeq	good	resurface	asphalt	asphalt	adeq	6.5	6	adeq	adeq	adeq	storm sewer	adeq	75	R		6-10 years	$137,000	23
95	7	13	998.2	Mount Pleasant Road	Sunny Hill Drive	Dingwall Road	1.0	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	72	PR	+ ditch work	6-10 years	$178,000	22
96	7	17	1104	Shiloh Road	County Road 21	Penryn Road	1.9	200	adeq	fair	resurface	surface treated	gravel	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	72	PR		6-10 years	$267,000	22
97	7	15	1094.2	Old Shelter Valley Road	Old Percy Road	Inglis Road	0.4	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	72	PR	+ ditch work	6-10 years	$64,000	22
98	7	15	2325	Barnes Road	Beach Drive	County Road 2	1.7	200	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	72	PR	+ ditch work	6-10 years	$260,000	22
99	8	17	1149.1	Fiddick Road	Little Lake Road	Old Rail Road	2.7	200	4	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	73	PR		6-10 years	$359,000	22
100	8	18	993	Mount Pleasant Road	County Road 22	Tait Road	2.3	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	73	PR		6-10 years	$295,000	22
101	8	13	2306.2	Morganston Road	Kelly Drive	Mount Pleasant Road	2.0	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	73	PR	+ ditch work	6-10 years	$323,000	21
102	8	7	2589.6	Little Lake Road	Cedar Lane	Purdy Road	0.3	400	adeq	good	resurface	surface treated	surface treated	adeq	8	6	adeq	adeq	adeq	open ditch	adeq	77	PR		6-10 years	$141,000	21

Cramahe Road Needs Study 2023

Ranking & Rating			Road Section Identification & Details						Deficiencies & Needs												Improvement Strategy					
Rank	Year	Priority Guide Number	Asset ID	Road Name	From	To	Length (km)	2023 AADT	Geometrics	Surface Condition		Surface Type			Surface Width			Shoulder	Capacity	Drainage		PCI	Road Improve	Ditch Improve	Time	Value	Priority Rating
									need	existing	need	existing	tolerable	need	existing	tolerable	need	need	need	existing	need						
103	8	7	1113.1	Telephone Road	Walker Road	Chapman Road	0.8	425	adeq	good	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	77	PR	+ ditch work	6-10 years	$429,000	21
104	8	4	957.2	Gould Road	Depaepe Court	Old Percy Road	0.2	200	adeq	fair	resurface	asphalt	gravel	adeq	7.5	6	adeq	0.50	adeq	no ditch	now	73	PR	+ ditch work	6-10 years	$100,000	21
105	8	13	1165	Townline Road	County Road 31	County Road 2	2.4	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	74	PR	+ ditch work	6-10 years	$397,000	21
106	8	4	1035	Park Street W	Toronto Street	Percy Street	0.3	200	adeq	fair	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	74	R		6-10 years	$153,000	20
107	8	7	1017.2	Jakobi Road	Moore Road	Morganston Road	0.9	400	adeq	good	resurface	surface treated	surface treated	adeq	7	6	adeq	adeq	adeq	open ditch	now	78	PR	+ ditch work	6-10 years	$420,000	20
108	9	16	1135.4	Honey Road	Penny Lane	Telephone Road	0.2	200	adeq	fair	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	74	PR		6-10 years	$24,000	20
109	9	7	1113.3	Telephone Road	Honey Road	Trottman Road	0.8	425	adeq	good	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	now	78	PR	+ ditch work	6-10 years	$419,000	20
110	9	8	805	Valley Road	Dingman Road	End of Road	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	4.5	6	1.50	adeq	adeq	open ditch	adeq	75	WR		6-10 years	$198,000	20
111	9	4	2237.2	Victoria Street	Simmons Street	North Street	0.0	200	adeq	fair	resurface	asphalt	asphalt	adeq	9	6	adeq	adeq	adeq	storm sewer	adeq	75	R		6-10 years	$20,000	20
112	9	13	2306.1	Morganston Road	Tait Road	Kelly Drive	0.8	200	adeq	fair	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	now	75	PR	+ ditch work	6-10 years	$137,000	20
113	9	17	1163	Kelwood Lane	County Road 25	105 Kelwood Lane	0.3	200	adeq	good	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	75	PR		6-10 years	$32,000	20
114	9	17	965	Kelwood Lane	105 Kelwood Lane	Cul-de-Sac	0.4	200	adeq	good	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	75	PR		6-10 years	$48,000	20
115	9	8	778.1	Campbell Road	Clarke Road	Mitchell Road	0.3	100	adeq	fair	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	72	PR	+ ditch work	6-10 years	$44,000	19
116	9	11	1139.1	Brighton-Cramahe Boundary Road	County Road 2	Hillview Road	0.4	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	75	PR	+ ditch work	6-10 years	$80,000	19
117	9	12	2375.5	Penryn Road	Gillespie Road	Dale Road	2.2	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	now	76	PR	+ ditch work	6-10 years	$379,000	19
118	9	7	1115.2	Telephone Road	Deele Road	Ibbotson Road	1.6	425	adeq	good	resurface	surface treated	surface treated	adeq	7.5	6	adeq	adeq	adeq	open ditch	adeq	80	PR		6-10 years	$780,000	19
119	9	15	2336	Cowie Road	County Road 21	Dingman Road	2.9	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	76	PR		6-10 years	$368,000	19
120	9	15	2331	Pipeline Road	County Road 25	Old Shelter Valley Road	0.9	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	77	PR		6-10 years	$121,000	18
121	10	12	2596	William Street	Victoria Street	Ontario Street	0.6	200	adeq	good	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	no ditch	now	77	PR	+ ditch work	6-10 years	$99,000	18
122	10	9	2333	Beach Drive	Hunt Road	Barnes Road	1.1	200	adeq	good	resurface	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	now	77	WR	+ ditch work	6-10 years	$240,000	18
123	10	4	2237.1	Victoria Street	King Street E	Simmons Street	0.1	200	adeq	good	resurface	asphalt	asphalt	adeq	9	6	adeq	adeq	adeq	storm sewer	adeq	77	R		6-10 years	$78,000	18
124	10	16	1139.2	Brighton-Cramahe Boundary Road	Hillview Road	Little Lake Road	2.0	200	adeq	good	resurface	surface treated	gravel	adeq	6.5	6	adeq	adeq	adeq	open ditch	adeq	77	PR		6-10 years	$241,000	18
125	10	12	912.2	Darling Road	Hutchinson Road	Cramahe Township Boundary	0.3	200	adeq	good	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	77	PR	+ ditch work	6-10 years	$50,000	18
126	10	4	955.2	Elgin Street S	Simmons Street	Alfred Street	0.2	200	adeq	good	resurface	asphalt	asphalt	adeq	8.5	6	adeq	adeq	adeq	storm sewer	adeq	78	R		6-10 years	$89,000	18
127	10	14	2597	Trenear Road	County Road 2	Trent Valley Drive	0.6	200	adeq	good	resurface	surface treated	gravel	adeq	7	6	adeq	adeq	adeq	open ditch	adeq	78	PR		6-10 years	$80,000	17
128	10	4	2262	Elgin Street S	Alfred Street	End of Road	0.4	200	adeq	good	resurface	asphalt	asphalt	adeq	6.9	6	adeq	adeq	adeq	storm sewer	adeq	78	R		6-10 years	$180,000	17
129	10	1	957.1	Gould Road	County Road 22	Depaepe Court	0.3	49	adeq	fair	resurface	asphalt	gravel	adeq	7.5	6	adeq	0.50	adeq	open ditch	adeq	72	PR		6-10 years	$167,000	17
130	10	4	1061	Simmons Street	Elgin Street South	Victoria Street	0.2	200	adeq	good	resurface	asphalt	asphalt	adeq	6.8	6	adeq	adeq	adeq	storm sewer	adeq	79	R		6-10 years	$96,000	16
131	10	3	961	Jane's Court	King Street East	End of Road	0.2	200	adeq	good	resurface	asphalt	asphalt	adeq	8.6	6	adeq	adeq	adeq	storm sewer	adeq	80	R		6-10 years	$112,000	16
132	10	6	1023.1	Clarkson Road	Dunbar Road	Hagarty Road	1.2	100	adeq	good	resurface	surface treated	gravel	adeq	6	6	adeq	adeq	adeq	open ditch	now	78	PR	+ ditch work	6-10 years	$188,000	15
133	10	6	2997	Dekseyer Road	300 m west of County Road 25	Neil McGreggor Road	1.0	100	adeq	good	resurface	surface treated	gravel	adeq	8.5	6	adeq	adeq	adeq	open ditch	adeq	78	PR		6-10 years	$168,000	15
The following roads are Widen & Resurface only (ie. do not have other deficiencies warranting road imrovement, other than ditching) and thus have been ranked separately as they are lesser priorities																										
134	10	10	858	Victoria Street	100 m South of William Street	End of Road	0.4	100	adeq	fair	adequate	gravel	gravel	adeq	5.5	6	0.50	0.50	adeq	open ditch	adeq	71	WR			$56,000	20
135	10	9	804	Phasey Road	County Road 25	End of Road	0.3	200	adeq	good	adequate	gravel	gravel	adeq	5.5	6	0.50	0.50	adeq	open ditch	adeq	77	WR			$68,000	18
136	10	3	1207	Old Percy Road (Colborne)	Toronto Street	End of Road	0.2	49	adeq	fair	adequate	gravel	gravel	adeq	5.5	6	0.50	0.50	adeq	open ditch	now	74	WR	+ ditch work		$37,000	16
137	10	8	2328	Beach Drive	Union Road	Hunt Road	1.0	200	adeq	good	adequate	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	now	80	WR	+ ditch work		$207,000	16
138	10	3	1201	Victoria Street	William Street	100 m South of William Street	0.1	100	adeq	good	adequate	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	adeq	81	WR			$33,000	13
139	10	5	809	Moore Road	Jakobi Road	Cramahe Township Boundary	0.4	200	adeq	good	adequate	surface treated	gravel	adeq	5.5	6	0.50	adeq	adeq	open ditch	now	86	WR	+ ditch work		$88,000	11
																									$25,185,000	

PR - pulverize and resurface with 1 or 2 lifts

R - resurface with 1 or 2 lifts

REC - reconstruction

WR - road widening & resurface