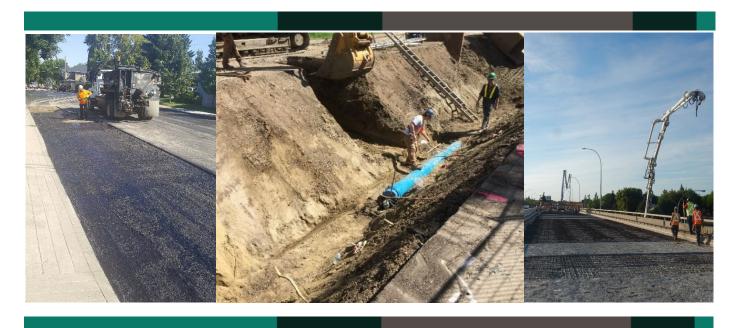
# **Projected 2019-2021 Asset Preservation Plans**

### **Roadway & Sidewalk Assets**

### Water & Sewer Assets

**Bridge & Structure Assets** 





Major Projects & Preservation May 2019

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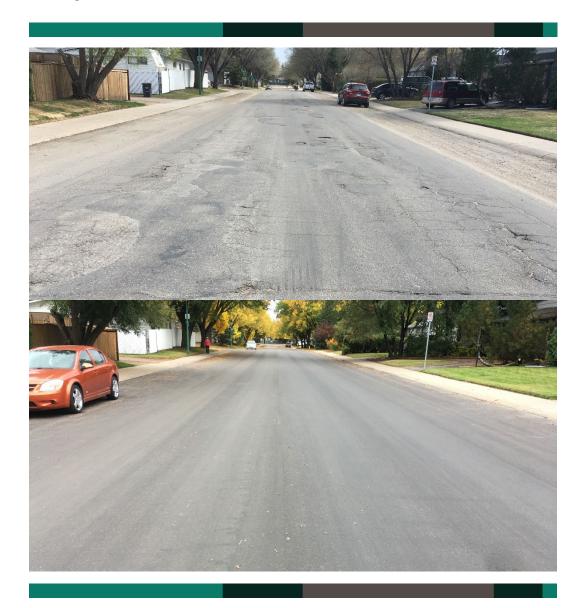
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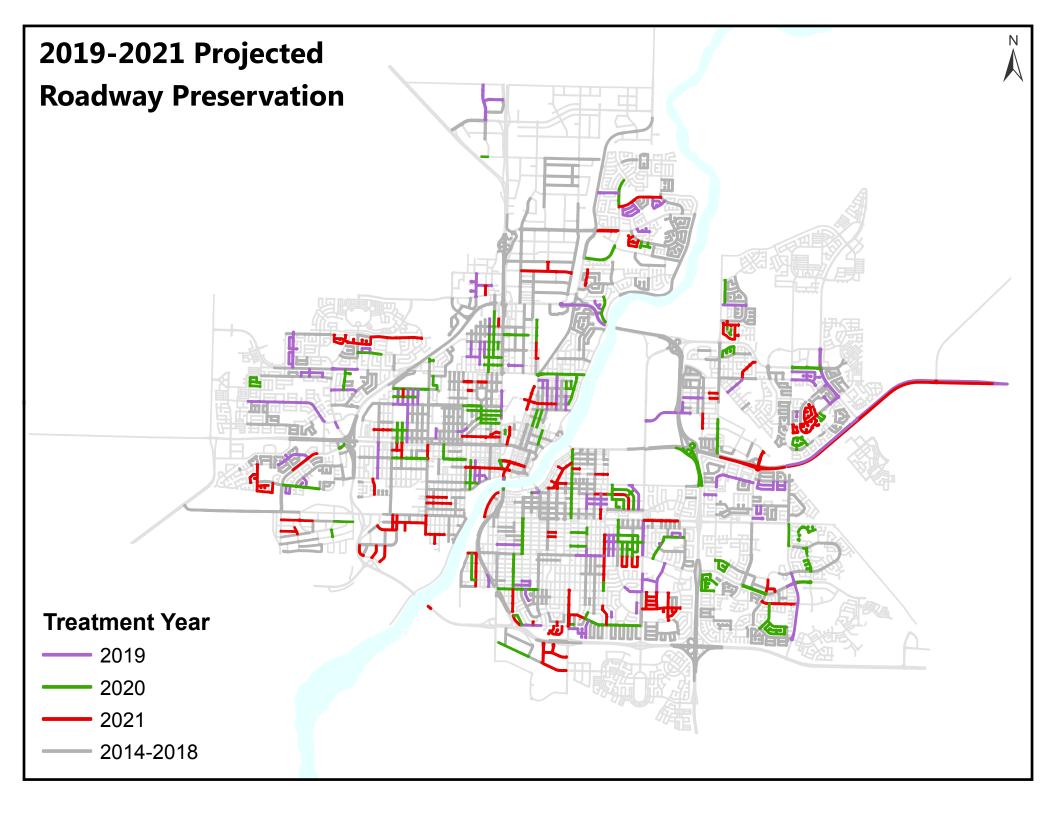
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# Projected 2019-2021 Roadway & Sidewalk Preservation Plan







#### **Roadway & Sidewalk Assets**

Roadway and Sidewalk asset preservation management is a process of monitoring, maintaining, and preserving our roads and sidewalks effectively throughout their lifecycle. The goal is to employ effective decision making to optimize a cost effective mix of treatments, to maximize the number of roads and sidewalks treated to improve the networks as a whole.

#### Assumptions

The following assumptions were used to produce this roadway and sidewalk preservation plan document:

- Base funding is maintained for 2020 and maintained for 2021.
- Treatment quantities developed are based on adjusted previous year close out reports.
- The unit rate cost estimates are based on but not limited to: contractor unit rates, project management, administration, traffic control, miscellaneous surface preparation work, testing, and a contingencies.
- All locations are projected. Actual locations, quantities, and treatments may vary prior to construction.
- Project locations on the ward maps are identified by funding year, in anticipation that projects get completed during said funding year. There may be locations still under construction or planned for construction within an existing previous year contract funded through previous year funding sources.
- Sidewalk preservation for mitigating severely damaged sidewalk panels and safety maintenance of lightly damaged sidewalk panels will be performed adjacent to the roads within the road preservation program.
- A lane-km, as referred to in this document, is the calculation of the current paved area divided by a lane width of 3.8 metres and then divided by 1000 metres per kilometre which results the Lane-km.

### 2019-2021 Projected Budgets

Program	2018* Budget (\$M)	2019* Budget (\$M)	2020* Budget (\$M)	2021* Budget (\$M)
Local Roadway Preservation	\$10.700	\$10.700	\$10.700	\$10.700
Collector Roadway Preservation	\$5.850	\$5.500	\$5.600	\$5.600
Arterial Roadway Preservation	\$5.850	\$5.200	\$5.400	\$5.800
Expressway Roadway Preservation	\$3.900	\$3.500	\$3.700	\$3.700
Neighbourhood Sidewalk Preservation	\$3.400	\$3.900	\$4.200	\$4.200
Primary Sidewalk Preservation	\$2.100	\$2.500	\$3.200	\$3.200
Totals	\$31.800	\$31.300	\$32.800	\$32.800

\*Budgets include a \$1.6 million one-time loan for 2017 CWWF roadway & sidewalk treatments to be paid off over 5 years by the 2018-2022 Roadway & Sidewalk Budgets.

#### 2019 Planned Treatments, Unit Rates & Estimated Quantities

Treatment	Unit Rate	Estimated Treatment Quantity
Sidewalk Preservation:		
Curb Replacement	\$120-235/lin.m.	7 300 m
Sidewalk Replacement	\$130-215 / m <sup>2</sup> .	15 600 m <sup>2</sup>
Sidewalk Crack Filling	\$30-65 /lin.m.	8 100 m
Sidewalk Trip Ledge Removal	\$45-65 /lin.m.	1 650 m
Sidewalk Concrete Overlay	\$125-140 /m <sup>2</sup> .	4 395 m
Road Preservation:		
Crack Sealing	\$14-27 /lin.m.	35 900 m
Microsurface Seam Banding and Spot Patching	\$16-18 /m <sup>2</sup>	4 000 m²
Patching (Blade/Shallow/Deep)	\$15-140 /m <sup>2</sup>	10 500 m²
Microsurfacing	\$8-10 /m <sup>2</sup>	76.9 ln-km
Overlays	\$15-35 /m <sup>2</sup>	13.6 ln-km
Resurfacing	\$30-40 /m <sup>2</sup>	70.6 ln-km
Reconstruction	\$70-150 /m <sup>2</sup>	21.5 ln-km
2019 Total Projected Roadway Lane-Kild	ometres Treated:	182.6 In-km

#### **Roadway & Sidewalk Treatment Descriptions**

**Crack Sealing** – Crack sealing is a rubberized asphaltic material that is used to seal transverse and longitudinal cracks, open longitudinal seams, and minor fatigue cracking. Crack sealing prevents moisture infiltration into the roadway structure to reduce the chance of premature structural failure and potholes.

**Microsurface Banding** – Microsurface banding is pro-active maintenance treatment utilized to address depressed transverse cracks, open seam/centerline cold joint failures, and localized rutting.

**Microsurface Spot Patching** – Microsurface spot patching is utilized to address and seal localized low fatigue cracking, raveling, seal pot hole patching, and fill in depressions up to 38mm. The intent is to prevent water infiltration that would further deteriorate the roadway surface or structure and improve ride conditions where there were depressions.

**Spot Blade Level or Hotbox Patching** – Spot blade levelling or hotbox patching is aimed at restoring localized areas causing an effect on ride or drainage.

**Mill & Fill Patching** – Mill & Fill Patching utilizes a milling machine to remove localized deteriorated pavement to a depth of 60mm or greater to reach a competent asphalt base. The milled area is then tacked and paved in to the depth it was milled out.

**Shallow Patching** – Shallow patching is required when an area of failed or deteriorated asphalt needs to be milled off or removed to exposed stable existing granular substructure. The existing granular base is reshaped, compacted roll tested and new pavement is applied.

**Deep Patching** – Deep patching is required when an area of failed asphalt upon removal shows that the granular structure below the asphalt is not stable. The existing granular structure would be removed to a certain depth to accommodate a proper new structure. In some cases a sub drainage layer and/or geotextiles may need to be installed.

**Microsurfacing** – Microsurfacing is a surfacing treatment involving the placement of specified crushed graded aggregate with an asphalt emulsion. This treatment is placed on entire road surfaces that are structurally sound, with limited or no cracking, and with minimal surface imperfections. This treatment is typically used to address roadways with weathered or raveled surfaces.

**Blade Level** – Blade levelling is placing a layer of hot mix asphalt with a motor grader and then compacted with steel and rubber tire rollers for entire road segment. Its primary purpose is to improve the roadway surface profile, which results in improved drainage and ride.

**Asphalt Overlays** – Asphalt overlays are asphalt pavement laid to a thickness of 10mm up to 40mm. They serve as preservation treatment to provide a high quality surface wearing course up to providing structural capacity. This treatment is typically used on roadways with minor surface imperfections and signs of raveling or weathering or the road requires additional structural capacity.

**Resurfacing** – Resurfacing uses a milling machine to remove a layer of existing deteriorated pavement surface as well as to restore the roadway profile prior to adding a new asphalt layer. This treatment replaces the deteriorated pavement surface and restores the roadway profile.

**Reconstruction** – Reconstruction is used when the entire section or localized sections of roadway have structurally failed or the asphalt pavement has deteriorated and is unable to support its intended loads. Reconstruction may involve the partial or complete removal and replacement of the asphalt, base and subbase and may involve the removal and/or strengthening of a portion of the subgrade. Reconstruction treatments are categorized either as a "Reconstruction – Light" or "Reconstruction – Heavy".

**Water/Sewer Coordinated Road Works** – Water and Sewer Road Restoration is used to restore the roadway outside the limits of the water/sewer work.

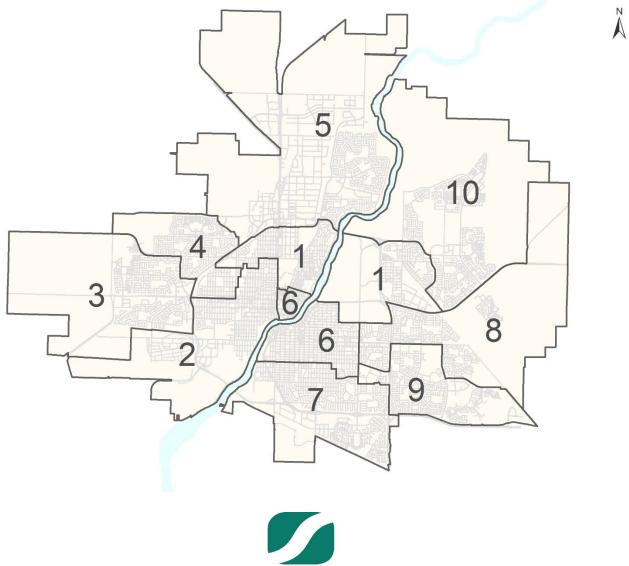
**Sidewalk Trip Ledge Removal** – Trip ledge removal is a cost-effective alternative to sidewalk replacement. Sidewalk panels with trip ledges are cut or ground down to eliminate trip hazards due to frost heaves or differential settlement. This method is used to remove any tripping hazard to ensure safe navigation for all ages and demographics.

**Sidewalk Crack Filling** – Crack filling treatment is used to seal cracks in the sidewalk resulting from expansion and contraction during the concrete curing process, temperature, or damage caused by other forces. Crack filling prevents moisture infiltration that may cause future deterioration of the sidewalk.

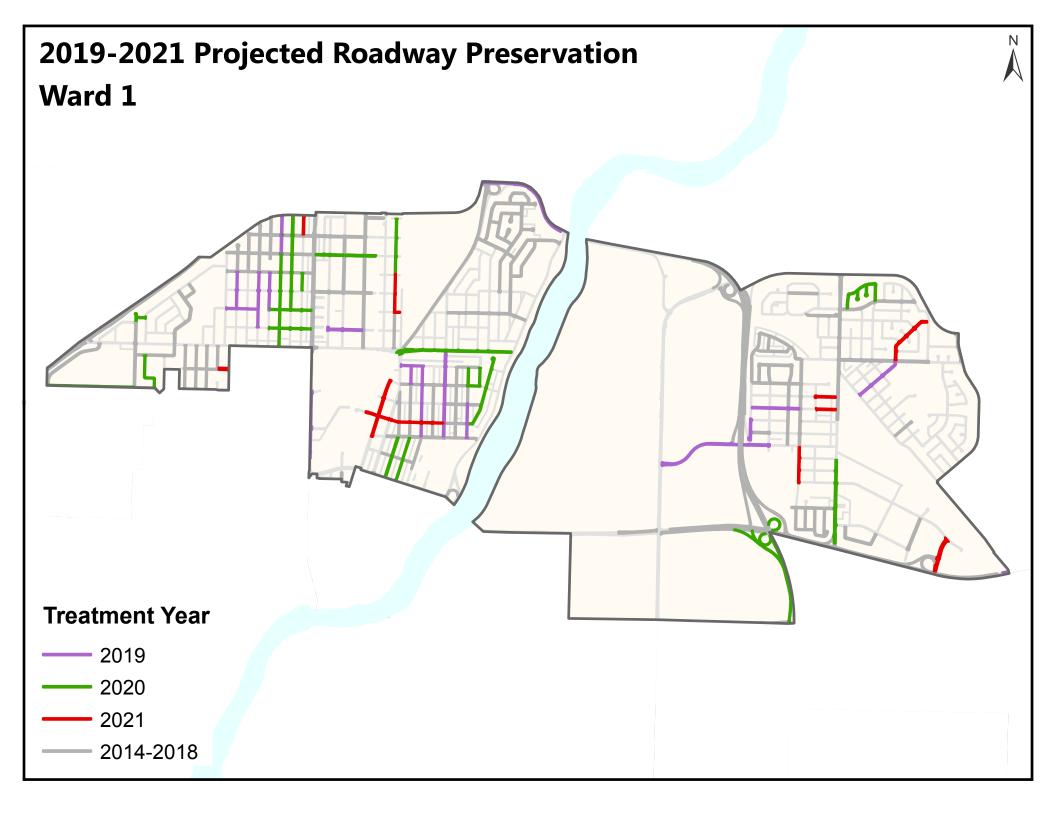
**Sidewalk Concrete Overlay** – Concrete overlays, with an approved two component high strength structural repair mortar, are used to repair medium and high scaled sidewalks that are structurally sound or panels with missing sections to return the surface to a smooth broomed finish.

**Sidewalk Panel and/or Curb Replacement** – Panel and/or curb replacement is the last option for sidewalk repair in order to ensure safe pedestrian traffic. If other treatment options are not achievable due to damage extent, safety, logistics, costs, or aesthetics, a sidewalk panel is to be replaced.

# 2019-2021 Projected Roadway & Sidewalk Preservation Project Locations

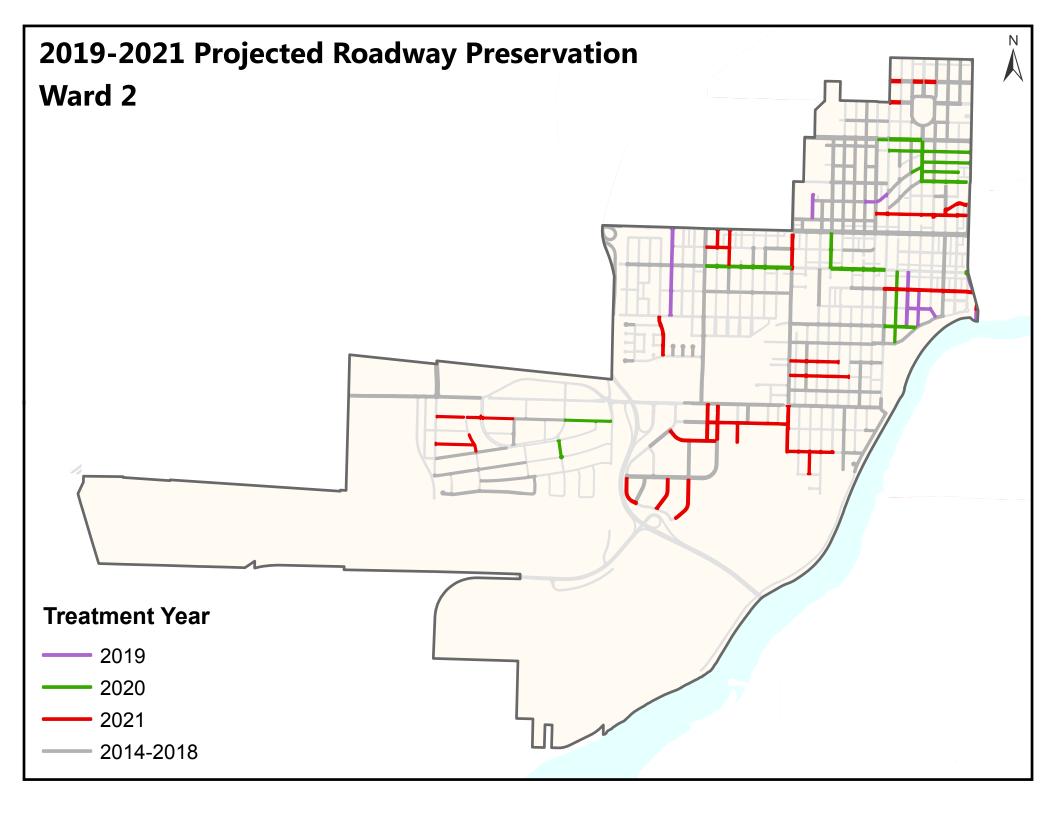






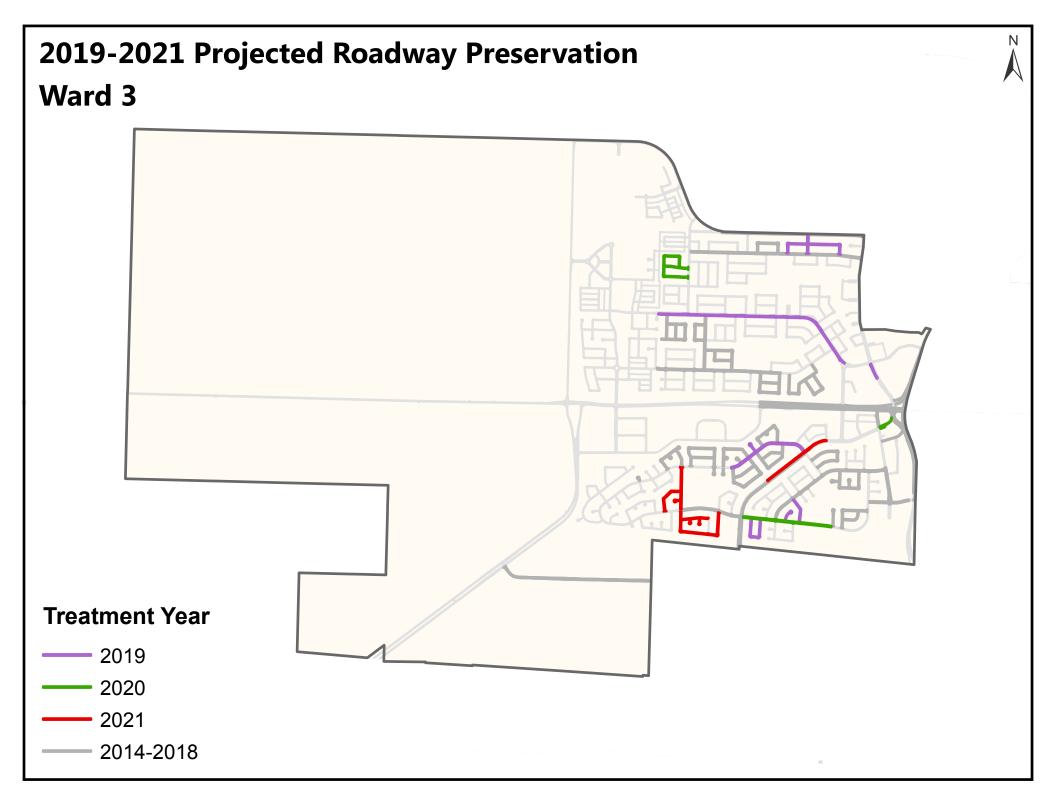
Street Name	From	ED ROADWAY PRESERVATION LOCATIO	Road Class	Project Type	Treatment	Lane-Km
08th St W	108th St W / Circle Dr Overpass	Bryans Ave	Minor Arterial	Road Preservation	Resurface	0.9
98th St W	Preston Ave N	108th St W / Circle Dr Overpass	Major Arterial	Road Preservation	Resurface	2.7
1th St W	Lanyon Ave	Bryans Ave	Local	Road Preservation	Microsurface	1.5
4th St E	Alberta Ave	Quebec Ave	Local	W&S Restoration	Resurface	1.2
5th St W	Ave I N	Ave F N	Local	Road Preservation	Microsurface	0.7
th Ave N	Duke St	Duchess St	Local	W&S Restoration	Resurface	0.4
th Ave N	Duke St	Duchess St	Local	W&S Restoration	Resurface	0.4
th Ave N	Queen St	Duke St	Local	W&S Restoration	Reconstruction	1.1
th Ave N	Queen St	33rd St E	Collector	W&S Restoration	Resurface	2.8
th Ave N	Queen St	Princess St	Local	W&S Restoration	Reconstruction	0.8
ve D N	38th St W	End	Local	W&S Restoration	Reconstruction	1.0
ve E N	35th St W	37th St W	Local	Road Preservation	Microsurface	0.8
ve F N	34th St W	37th St W	Local	Road Preservation	Microsurface	1.2
ve H N	35th St W	37th St W	Local	Road Preservation	Microsurface	0.8
uchess St	3rd Ave N / Warman Rd	5th Ave N	Collector	W&S Restoration	Reconstruction	0.5
unlop St	Gray Ave	115th St E	Collector	W&S Restoration	Resurface	1.5
ylwyld Dr N NB	25th St E	31st St W / 31st St E	Major Arterial	Road Preservation	Resurface	1.4
anyon Ave	108th St W / Circle Dr NE Ramp NB	110th St W	Local	Road Preservation	Reconstruction	0.7
anyon Ave	Toolin of W / Oncic Drive Ramp ND		Local	Road i rescivation	2018 Totals	20.3
					2010 101013	20.0
		ED ROADWAY PRESERVATION LOCATI	-			
reet Name	From	То	Road Class	Project Type	Treatment	Lane-Km
Oth Ave N	Duke St	Duchess St	Local	W&S Restoration	Resurface	0.4
nd Ave N	37th St E	40th St E	Local	Road Preservation	Microsurface	1.3
Ist St W	Ave W N / Edmonton Ave	Ave P N	Collector	Road Preservation	Microsurface	2.9
Brd St E	33rd St E	33rd St E WB	Local	Road Preservation	Resurface	0.1
3rd St E	5th Ave N	Spadina Cres E	Minor Arterial	Road Preservation	Resurface	2.8
3rd St E EB	3rd Ave N / Warman Rd	5th Ave N	Minor Arterial	Road Preservation	Resurface	0.5
3rd St E WB	5th Ave N	3rd Ave N / Warman Rd	Minor Arterial	Road Preservation	Resurface	0.6
4th St W	Ave E N	Idylwyld Dr N SB	Local	Road Preservation	Microsurface	0.9
5th St W	Ave E N	Idylwyld Dr N SB	Local	Road Preservation	Microsurface	0.9
3th St E	ldylwyld Dr N	Rail	Local	Road Preservation	Resurface	1.9
rd Ave N	25th St E WB	Queen St	Collector	W&S Restoration	Resurface	1.2
h Ave N	25th St E WB	Queen St	Local	W&S Restoration	Resurface	1.0
th Ave N	Duke St	Duchess St	Local	W&S Restoration	Resurface	0.4
ve B N	36th St W	37th St W	Local	Road Preservation	Microsurface	0.4
ve C N	35th St W	38th St W	Local	Road Preservation	Microsurface	1.2
ve C N	38th St W	41st St W	Collector	W&S Restoration	Resurface	1.7
ve D N	33rd St W	38th St W	Local	Road Preservation	Microsurface	1.9
ve P N	Edmonton Ave	End of Cul-De-Sac	Local	Road Preservation	Resurface	0.3
owerman St	Ave P N	Howell Ave	Local	Road Preservation	Reconstruction	0.2
entral Ave	College Dr	107th St W	Major Arterial	Road Preservation	Resurface	3.1
elayen Cres	Rossmo Rd	Rossmo Rd	Local	Road Preservation	UTO	1.7
elayen Crt	End of Cul-De-Sac	Delayen Cres	Local	Road Preservation	UTO	0.3
elayen Pl	End of Cul-De-Sac	Delayen Cres	Local	Road Preservation	UTO	0.3
uke St	9th Ave N	10th Ave N	Local	W&S Restoration	Resurface	0.3
ng Cres	9th Ave N	Duke St	Local	Road Preservation	Reconstruction	1.0
ing Cres	Duke St	End of Cul-De-Sac	Local	Road Preservation	Reconstruction	0.9
ffin Cres	31st St W	Faulkner Cres	Local	Road Preservation	Reconstruction	0.9
					2020 Totals	29.3
		ED ROADWAY PRESERVATION LOCATIO				
reat Nome				Ducie et Teme	Turaturat	1
reet Name	From Violet Ave	To Control Ave	Road Class	Project Type	Treatment	Lane-Kn
1th St W	Violet Ave	Central Ave	Local	Road Preservation	Resurface	0.7
2th St W	Violet Ave	Central Ave	Local	Road Preservation	Resurface	0.6
st Ave N	Queen St	Duke St	Local	Road Preservation	Resurface	2.2
nd Ave N	35th St E	37th St E	Local	W&S Restoration	Reconstruction	0.9
2nd St W WB	Ave H N	Ave H N	Local	Road Preservation	Reconstruction	0.4
	Ave I N	Ave G N	Local	Road Preservation	Reconstruction	0.4
	2nd Ave N	End	Local	Road Preservation	Reconstruction	0.1
ith St E		40th A St W	Local	Road Preservation	Microsurface	0.5
5th St E	39th St W					1.0
5th St E	39th St W 105th St W	108th St W	Collector	Road Preservation	Resurface	1.0
2nd St W WB 5th St E ve B N gbert Ave ing St	39th St W		Collector Local	Road Preservation	Resurface Resurface	1.0
5th St E ve B N gbert Ave	39th St W 105th St W 2nd Ave N City Yards	108th St W	Local Local			
5th St E ve B N gbert Ave ing St	39th St W 105th St W 2nd Ave N	108th St W 7th Ave N	Local	Road Preservation	Resurface	1.1
5th St E ve B N gbert Ave ng St ng St	39th St W 105th St W 2nd Ave N City Yards	108th St W 7th Ave N 2nd Ave N	Local Local	Road Preservation Road Preservation	Resurface Resurface	1.1 0.7
th St E e B N jbert Ave ng St g St :Kercher Dr NB	39th St W 105th St W 2nd Ave N City Yards College Dr / Mckercher Dr Overpass NB	108th St W 7th Ave N 2nd Ave N 105th St E / Aspen Pl	Local Local Major Arterial	Road Preservation Road Preservation Road Preservation	Resurface Resurface Resurface	1.1 0.7 0.7
th St E e B N Ibert Ave ng St og St Kercher Dr NB cKercher Dr SB	39th St W 105th St W 2nd Ave N City Yards College Dr / Mckercher Dr Overpass NB 105th St E / Aspen Pl	108th St W 7th Ave N 2nd Ave N 105th St E / Aspen Pl College Dr / Mckercher Dr Overpass SB	Local Local Major Arterial Major Arterial	Road Preservation Road Preservation Road Preservation Road Preservation	Resurface Resurface Resurface Resurface	1.1 0.7 0.7 0.7
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11.8 61.3



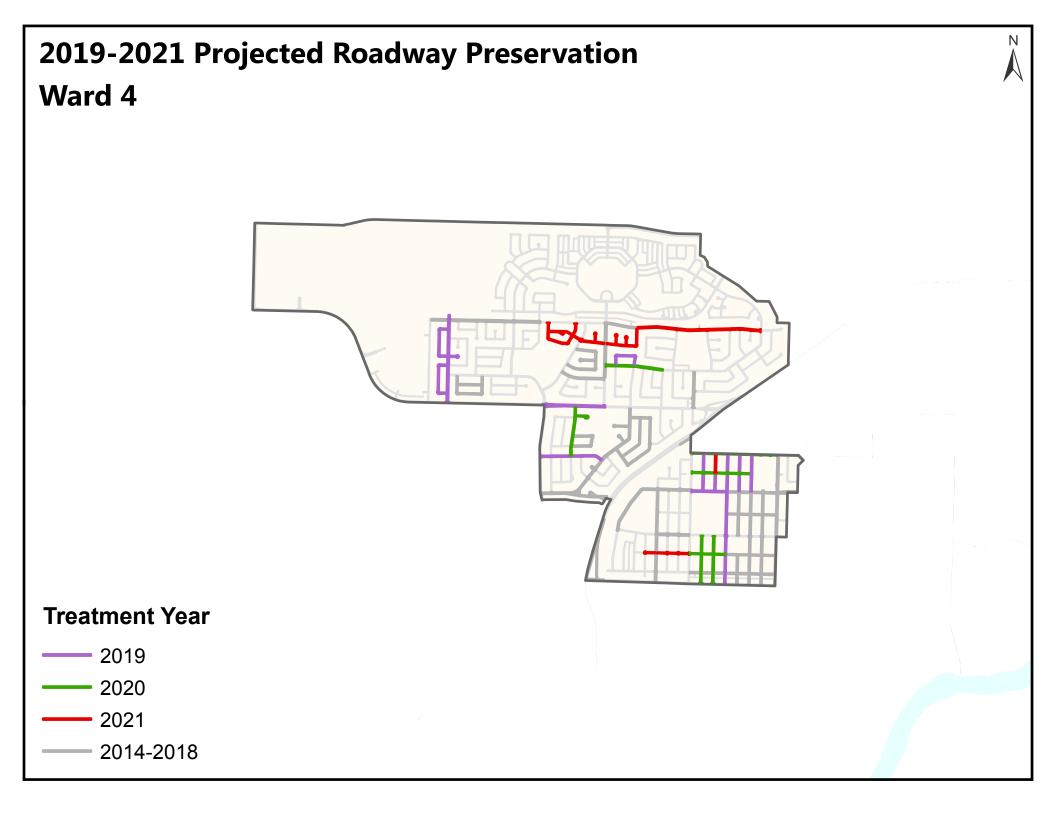
B, W         Ave H 5         Ave E 5         Collector         Result reservation         Result	treet Name	From	То	Road Class	Project Type	Treatment	Lane-Km	
B. W. EB         Ave IN         Ave E N         Content         Microsuratec         0.0           0.8 W. EB         Ave IN         Ave D N         Local         Road Preservation         Reconstruction         0.0           0.8 W. BB         Ave D N         Ave F N         Local         Road Preservation         Reconstruction         0.0           0.8 Stress         Stress         Stress         West Resonance         Reconstruction         0.0           0.8 Stress         Stress         This NW Sectors         Reconstruction         1.9           0.6 Stress         This NW Sectors         Reconstruction         0.6         Reconstruction         0.6           0.6 Stress         This NW Sectors         Reconstruction         0.6         Reconstruction         0.6           0.6 Stress         This NW Sectors         Reconstruction         0.6         Reconstruction         0.6           0.6 Stress         This NW Sectors         Reconstruction         Reconstruction         0.6         Reconstruction         Reconstruction         0.6           0.6 Stress         This NW Reconstruction         Reconstruction         Reconstruction         Reconstruction         Reconstruction         Reconstruction         Reconstruction         Reconstruction         Rec	7th St W	Ave H S	Ave E S	Collector		Resurface	0.9	
B. W. EB         Ave IN         Ave E N         Content         Microsuratec         0.0           0.8 W. EB         Ave IN         Ave D N         Local         Road Preservation         Reconstruction         0.0           0.8 W. BB         Ave D N         Ave F N         Local         Road Preservation         Reconstruction         0.0           0.8 Stress         Stress         Stress         West Resonance         Reconstruction         0.0           0.8 Stress         Stress         This NW Sectors         Reconstruction         1.9           0.6 Stress         This NW Sectors         Reconstruction         0.6         Reconstruction         0.6           0.6 Stress         This NW Sectors         Reconstruction         0.6         Reconstruction         0.6           0.6 Stress         This NW Sectors         Reconstruction         0.6         Reconstruction         0.6           0.6 Stress         This NW Sectors         Reconstruction         Reconstruction         0.6         Reconstruction         Reconstruction         0.6           0.6 Stress         This NW Reconstruction         Reconstruction         Reconstruction         Reconstruction         Reconstruction         Reconstruction         Reconstruction         Reconstruction         Rec	8th St W	Ave F S	Ave D S	Local	W&S Restoration	Reconstruction	0.7	
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E.S.         170: S.W.         200: S.W.         Local         VXS Restoration         Reconstruction         1.6.           drod Rd         Ave J.N.         Ave H.N.         Local         VXS Restoration         Reconstruction         1.6.           drod Rd         Ave J.N.         Ave H.N.         Local         Rod Preservation         Reconstruction         1.6.           drod Rd         Ave J.N.         Bedrod Rd         Local         Rod Preservation         Reconstruction         2.0.           drod Rd         Local         Rod Preservation         Recurrate         2.0.         2.0.         1.0.         1.0.         1.0.         Recurrate         2.0.         2.0.         1.0.<	ve E S		19th St W	Local	W&S Restoration	Reconstruction	0.8	
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Inter JAve S         18th St W         20x0 PROJECT ED ROADWAY DRESERVATION LOCATONS         Resultation         20x18 Table         9.3           COMPROJECT ED ROADWAY DRESERVATION LOCATONS         Treatment         Lanced         Second         S	IcMillan Ave	23rd St W	Bedford Rd	Local	Road Preservation		0.8	
2018 Float         2018 Fl								
Construction         Construction<								
rick Name         From         Io         Road Class         Project Typel         Treatment         Lanced           h St W         Ave H S         Ave H S         Collector         WAS Restoration         Resurface         2.4           h St W         Ave W S         Ave H S         Minor Artenial         Road Preservation         Resurface         3.4           h St W         Ave E N         Uphyvic Dr N SB         Collector         WAS Restoration         Reconstruction         1.4           h St W         Ave E N         Uphyvic Dr N SB         Collector         WAS Restoration         Reconstruction         1.4           h St W         Ave E N         Uphyvic Dr N         Local         WAS Restoration         Reconstruction         1.1           h St W W         Ave H N         Ophyvic Dr N         Local         WAS Restoration         Reconstruction         1.1           h St W B         Ave H N         Collector         Road Preservation         Reconstruction         1.3           h St W B         Ave E N         Ave E N         Collector         Road Preservation         Reconstruction         1.3           h St W B         Ave E N         Collector         Road Preservation         Reconstruction         1.3		2020 BBO	IECTED BOADWAY PRESERVATION I	OCATIONS		2010 101010		
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Number         Ave E N         Idywyld Dr.N SB         Collector         Was Restoration         Reconstruction         0.8           ht St W         Ave E N         Idywyld Dr.N         Local         WAS Restoration         Reconstruction         0.8           ht St W         Ave H N         Idywyld Dr.N         Local         WAS Restoration         Reconstruction         1.1           ht St W BB         Ave I N         Ave E N         Collector         Road Preservation         Microsurface         0.8           b St W BB         Ave I N         Ave E N         Collector         Road Preservation         Reconstruction         1.3           b St W WB         Ave E N         Ave A N         Collector         Road Preservation         Reconstruction         1.3           c S S         15h St W /Valmer Rd         29h St W         Local         WAS Restoration         Reconstruction         1.6           c S S         20h St W         22nd St W         Local         WAS Restoration         Reconstruction         0.3           dridr G A         Ave F N         Ave E N         Local         WAS Restoration         Reconstruction         0.3           c S S         Dieppe St         Ortona St         Collector         Road Preservation <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
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HS W         Ave I N         Jølywid Dr N         Local         W&S Restoration         Reconstruction         19           h St W EB         Ave I N         Ave E N         Collector         Road Preservation         Microsurface         0.8           th St W WB         Ave E N         Collector         Road Preservation         Resurface         0.6           e S N         28h St W Walmer Rd         29h St W         Local         WS Restoration         Resonstruction         1.3           a S S         20h St W         20h St W         Local         WS Restoration         Resonstruction         1.3           dford Rd         Ave F N         Ave E N         Local         WS Restoration         Resonstruction         0.3           and St         Lancaster Bivd         Dundonald Ave         Collector         Ned Startion         Reconstruction         0.7           noaster Bivd         Diepp St         Ortona St         Collector         Ned Class         Vas Startion         Neconstruction         0.3           ext Name         Ave F S         Ave L S         Local         Road Preservation         Microsurface         1.1           to start         Ave K S         Ave K S         Local         Road Preservation         Microsurface								
h StW EB         Ave IN         Ave E N         Collector         Road Preservation         Microsurface         0.8           6 E N         28th StW // Walmer Rd         29th StW         Local         W&S Restoration         Resonstruction         1.3           6 G S         16th StW // Spadina Cres W         20th StW         Local         WdS Restoration         Resonstruction         1.1           6 M S         20th StW         Local         WdS Restoration         Resonstruction         1.0           ofted Rd         Ave F N         Ave E N         Local         WdS Restoration         Resonstruction         0.3           and St         Lancaster Blvd         Dundonald Ave         Collector         Reds Restoration         Reconstruction         0.3           Cold PROJECTED ROADWAY PRESERVATION LOCATIONS           Teatment         Lane-Kr           Ave K S         Local         Road Preservation         Microsurface         1.3           StW         Ave K S         Local         Road Preservation         Microsurface         1.4           StW M         Ave K S         Local         Road Preservation         Microsurface         1.3           StW M         Ave K S         Loc								
bit WWB         Ave E N         Collector         Road Preservation         Resultace         0.6           e S N         16h St W / Spadina Cres W         20h St W         Local         WAS Restoration         Reconstruction         1.3           e G S         16h St W / Spadina Cres W         20h St W         Local         WAS Restoration         Reconstruction         1.6           e M S         20h St W         22nd St W         Local         WAS Restoration         Reconstruction         0.3           atter M S         Lancaster Blvd         Dundonaid Ave         Collector         WAS Restoration         Reconstruction         0.3           atter M S         Direpp St         Oriona St         Collector         WAS Restoration         Reconstruction         0.3           atter M S         Our Ave S         Net K S         Local         Read Preservation         Merconstruction         0.3           atter K M Ave P S         Ave K S         Local         Road Preservation         Merconstruction         0.3           atter K M Ave P S         Ave L S         Local         Road Preservation         Merconstruction         0.3           atter K M Ave P S         Ave L S         Local         Road Preservation         Merconstruction         0.4							-	
e E N         25h St W / Walmer Rd         29h St W         Local         WAS Restoration         Reconstruction         13.           e G S         10h St W / Spadina Cres W         20h St W         Local         WAS Restoration         Resurface         10.           e M S         20h St W         22nd St W         Local         WAS Restoration         Resurface         10.           e M S         20h St W         Local         WAS Restoration         Reconstruction         0.3           e M S         Lancaster Bivd         Dundonaid Ave         Collector         WAS Restoration         Reconstruction         0.7           neaster Bivd         Dieppe St         Orton 82         Collector         Read Preservation         Reconstruction         0.3           2021 PROJECTED ROADWAY PRESERVATION LOCATIONS           Terestment         Lancaster           Ave K S         Local         Road Preservation         Microsurface         1.1           Ave K S         Local         Road Preservation         Microsurface         1.1           Ave K S         Local         Road Preservation         Microsurface         4.5           Startage         Ave K S         Local         Road Preservation <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
E G S         I (Bh S) W / Spacina Cres W         20th S) W         Local         W&S Restoration         Reconstruction         1.6           e M S         20th S) W         22th S) W         Local         W&S Restoration         Resurface         1.0           dford Rd         Ave F N         Ave E N         Local         W&S Restoration         Reconstruction         0.3           en St         Lancaster Blvd         Dundonald Ave         Collector         RwB Resonation         Reconstruction         0.3           conserver         2020 FDRD         Ontone St         Collector         RwB Resonation         Reconstruction         0.3           Conservation         Microsurface         1.3           Conservation         Microsurface         1.3           Conservation         Microsurface         1.3           Conservation         Microsurface         1.3           Mark K S         Local         Road Preservation         Microsurface         1.3           Conservation         Microsurface         1.3           Conservation         Microsurface         1.3           Conservation         Microsurface         1.3           Conse								
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dford Rd         Ave F N         Ave E N         Local         W&S Restoration         Reconstruction         0.3           ten St         Lancaster Bivd         Dundonald Ave         Collector         W&S Restoration         Reconstruction         0.3           2020 Totals         Standard         Collector         W&S Restoration         Reconstruction         0.3           2020 Totals         18.4           Colspan="2">2020 Totals         18.4           Colspan="2">2020 Totals         18.4           Colspan="2">2020 Totals         18.4           Rest Mach Class         Project Type         Treatment         Lane-Kr           Mark S         Local         Road Preservation         Microsurface         1.1           Standard Standard Standard Standard Preservation         Microsurface         1.2           Standard Preservation         Resurface         0.5           Standard Preservation         Resurface         0.5           Sta	ve G S							
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Incaster Blvd         Dieppe St         Ortona St         Collector         Road Preservation         Reconstruction         0.3           2021 PROJECTED ROADWAY PRESERVATION LOCATIONS           Cred Name         From         To         Road Preservation         Microstruction         18.4           Cred Name         From         To         Road Preservation         Microstruction         1.8           Cred Name         From         To         Colspan="2">Treatment         Lange And           Microstruction         Treatment         Lange And           Microstruction         Treatment         Lange And           Microstruction         Treatment         Lange And           Microstruction         Treatment         Lange And           Microstruction         Microstruction         Treatment         Lange And           Microstruction         Ave LS         Local         Road Preservation         Reconstruction         Othereservation <th< td=""><td>edford Rd</td><td></td><td></td><td></td><td>MARC Destaustion</td><td>Deconstruction</td><td>03</td></th<>	edford Rd				MARC Destaustion	Deconstruction	03	
Image: Construction of the second s	oalora ria	Ave F N	Ave E N	Local	W&S Restoration	Reconstruction	0.0	
2021 PROJECTED ROADWAY PRESERVATION LOCATIONS           reet Name         From         To         Read Class         Project Type         Treatment         Lane-Kr           th St W         Ave P S         Ave K S         Local         Read Preservation         Microsurface         1.3           th St W         Ave P S         Ave L S         Local         Read Preservation         Microsurface         1.1           th St W         Ave H S         2nd Ave S         Minor Artening Read Preservation         Microsurface         4.1           st St W         Ave H N         Ave U N         Idvively Or N         Local         Read Preservation         Resurface         0.5           st St W BB         Ave H N         Ave G N         Local         Read Preservation         Reconstruction         0.2           d St W BB         Ave F N         Ave D N         Local         Read Preservation         Reconstruction         0.4           d St W WB         Ave F N         Local         Read Preservation         Reconstruction         0.4           d St W WB         Ave F N         Local         Read Preservation         Reconstruction         0.4           d St W WB         Ave F N         Local         Read Preservation         Reconstruction	aen St							
th St W       Ave P S       Ave L S       Local       Road Preservation       Microsurface       1.1         st St W       Ave W S       Ave U S       Mior Arterial       Road Preservation       Microsurface       4.1         st St W       Ave W S       Ave U S       Local       Road Preservation       Resurface       0.5         rd St W       Ave I N       Id/invit0 Dr N       Local       Road Preservation       Resurface       0.2         st St W B       Ave G N       Ave G N       Local       Road Preservation       Reconstruction       0.2         st St W WB       Ave G N       Ave D N       Local       Road Preservation       Reconstruction       0.2         d St W EB       Ave F N       Ave D N       Local       Road Preservation       Reconstruction       0.4         d St W WB       Ave D N       Ave D N       Local       Road Preservation       Reconstruction       0.4         d St W EB       Ave D N       Ave T N       Local       Road Preservation       Reconstruction       0.5         e N S       Wellington St       Schuyler St       Local       Road Preservation       Resurface       1.5         e S S       Schuyler St       11th St W       Collector	aen St ancaster Blvd	Lancaster Blvd Dieppe St 2021 PRO	Dundonald Ave Ortona St JECTED ROADWAY PRESERVATION L	Collector Collector	W&S Restoration Road Preservation	Reconstruction Reconstruction 2020 Totals	0.7 0.3 18.4	
th SLW       Ave H S       2nd Ave S       Minor Arterial       Road Preservation       Microsurface       4.1         st St W       Ave I N       Idylwyld Dr N       Local       Road Preservation       Resurface       2.4         st St W EB       Ave H N       Ave G N       Local       Road Preservation       Resurface       2.4         st St W BB       Ave G N       Ave G N       Local       Road Preservation       Resonstruction       0.2         nd St W EB       Ave F N       Ave D N       Local       Road Preservation       Reconstruction       0.4         e C N       23rd St W       Jamieson St       Local       Road Preservation       Reconstruction       0.4         e N S       Wellington St       Schuyler St       Local       Road Preservation       Resonstruction       0.5         e N S       Wellington St       Schuyler St       Local       Road Preservation       Resurface       0.5         e N S       Schuyler St       11th St W       Collector       Road Preservation       Resurface       1.2         e U S       Schuyler St       11th St W       Collector       Road Preservation       Resurface       0.4         e U S       End       Dudley St       Local<	aen St ancaster Blvd treet Name	Lancaster Blvd Dieppe St 2021 PRO. From	Dundonald Ave Ortona St JECTED ROADWAY PRESERVATION L To	Collector Collector	W&S Restoration Road Preservation Project Type	Reconstruction Reconstruction 2020 Totals Treatment	0.7 0.3 18.4 Lane-Km	
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st St W EB       Ave G N       Local       Road Preservation       Reconstruction       0.2         st St W WB       Ave G N       Ave H N       Local       Road Preservation       Reconstruction       0.2         st St W WB       Ave F N       Ave D N       Local       Road Preservation       Reconstruction       0.4         nd St W WB       Ave D N       Ave D N       Local       Road Preservation       Reconstruction       0.4         e C N       23rd St W       Jamieson St       Local       Road Preservation       Reconstruction       0.5         e N S       Wellington St       Schuyler St       Local       Road Preservation       Resurface       1.5         e P S       20th St W       22nd St W       Major Arterial       Road Preservation       Resurface       1.5         e U S       20th St W       22nd St W EB       Local       Road Preservation       Resurface       0.4         e V S       21t St W       22nd St W EB       Local       Road Preservation       Resurface       1.2         e V S       Schuyler St       11th St W       Collector       Road Preservation       Resurface       1.2         e V S       Schuyler St       11th St W       Local       Road Pr	aen St ancaster Blvd treet Name 3th St W	Lancaster Blvd Dieppe St 2021 PRO. From Ave P S Ave P S Ave P S	Dundonald Ave Ortona St JECTED ROADWAY PRESERVATION L To Ave K S Ave L S	Collector Collector COCATIONS Road Class Local Local	W&S Restoration Road Preservation Project Type Road Preservation Road Preservation	Reconstruction Reconstruction 2020 Totals Treatment Microsurface Microsurface	0.7 0.3 18.4 Lane-Km 1.3 1.1 4.1	
st St WB       Ave G N       Ave H N       Local       Road Preservation       Reconstruction       0.2         nd St W EB       Ave F N       Ave D N       Local       Road Preservation       Reconstruction       0.4         nd St W WB       Ave D N       Ave D N       Local       Road Preservation       Reconstruction       0.4         e C N       23rd St W       Jamieson St       Local       Road Preservation       Reconstruction       0.5         e N S       Wellington St       Schuyler St       Local       Road Preservation       Resurface       0.5         e P S       20th St W       22nd St W B       Collector       Road Preservation       Resurface       1.2         e V S       20th St W       22nd St W EB       Local       Road Preservation       Resurface       0.8         e U S       End       Dudley St       Local       Road Preservation       Resurface       0.4         e V S       21st St W       22nd St W EB       Local       Road Preservation       Resurface       1.2         e W S       Schuyler St       11th St W       Collector       Road Preservation       Resurface       1.2         e X S       Schuyler St       11th St W       Collector	aen St ancaster Blvd treet Name 3th St W 5th St W 9th St W 1st St W	Lancaster Blvd           Dieppe St           2021 PRO.           From           Ave P S           Ave H S           Ave H S           Ave W S	Dundonald Ave Ortona St JECTED ROADWAY PRESERVATION L To Ave K S Ave L S 2nd Ave S Ave U S	Collector Collector Collector Road Class Local Local Minor Arterial Local	W&S Restoration Road Preservation Project Type Road Preservation Road Preservation Road Preservation	Reconstruction Reconstruction 2020 Totals Treatment Microsurface Microsurface Resurface	0.7 0.3 18.4 Lane-Km 1.3 1.1 4.1 0.5	
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e C N       23rd St W       Jamieson St       Local       Road Preservation       Resurface       0.5         e N S       Wellington St       Schuyler St       Local       Road Preservation       Reconstruction       0.5         e P S       20th St W       22nd St W       Major Arterial       Road Preservation       Resurface       1.2         e P S       Schuyler St       11th St W       Collector       Road Preservation       Resurface       1.5         e U S       20th St W       22nd St W EB       Local       Road Preservation       Resurface       0.8         e V S       21st St W       22nd St W EB       Local       Road Preservation       Resurface       0.4         e V S       21st St W       22nd St W EB       Local       Road Preservation       Resurface       0.4         e V S       21st St W       22nd St W EB       Local       Road Preservation       Resurface       1.2         e X S       Schuyler St       11th St W       Collector       Road Preservation       Microsurface       1.2         e X S       Schuyler St       11th St W       Local       Road Preservation       Microsurface       1.2         e X S       Schuyler St       Ave W S       Ave W S <td>aen St ancaster Blvd treet Name 3th St W 5th St W 9th St W 3rd St W 1st St W 1st St W EB 1st St W WB</td> <td>Lancaster Blvd           Dieppe St           2021 PRO.           From           Ave P S           Ave P S           Ave H S           Ave W S           Ave I N           Ave H N           Ave H N           Ave G N</td> <td>Dundonald Ave Ortona St JECTED ROADWAY PRESERVATION L To Ave K S Ave L S 2nd Ave S Ave U S Idylwyld Dr N Ave G N Ave H N</td> <td>Collector Collector</td> <td>W&amp;S Restoration Road Preservation Project Type Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation</td> <td>Reconstruction Reconstruction 2020 Totals Treatment Microsurface Microsurface Resurface Resurface Resurface Reconstruction Reconstruction</td> <td>0.7 0.3 18.4 Lane-Km 1.3 1.1 4.1 0.5 2.4 0.2 0.2</td>	aen St ancaster Blvd treet Name 3th St W 5th St W 9th St W 3rd St W 1st St W 1st St W EB 1st St W WB	Lancaster Blvd           Dieppe St           2021 PRO.           From           Ave P S           Ave P S           Ave H S           Ave W S           Ave I N           Ave H N           Ave H N           Ave G N	Dundonald Ave Ortona St JECTED ROADWAY PRESERVATION L To Ave K S Ave L S 2nd Ave S Ave U S Idylwyld Dr N Ave G N Ave H N	Collector Collector	W&S Restoration Road Preservation Project Type Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation	Reconstruction Reconstruction 2020 Totals Treatment Microsurface Microsurface Resurface Resurface Resurface Reconstruction Reconstruction	0.7 0.3 18.4 Lane-Km 1.3 1.1 4.1 0.5 2.4 0.2 0.2	
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e W S       Schuyler St       11th St W       Collector       Road Preservation       Microsurface       1.2         e X S       Schuyler St       11th St W       Local       Road Preservation       Microsurface       1.2         en St       Elevator Rd       Rockingham Ave       Collector       Road Preservation       Microsurface       1.2         idley St       Ave W S       Ave P S       Local       Road Preservation       Reconstruction       1.9         idley St       Ave X S       Ave W S       Local       Road Preservation       Microsurface       0.3         idla Ave       Ortona St       Anhem St       Local       Road Preservation       Reconstruction       0.4         nelson St       Ave C N       Idylwyld Dr N       Collector       Road Preservation       Resurface       0.3         alouf Rd       Fletcher Rd       Barnes Ave       Local       Road Preservation       Microsurface       1.1         alouf Rd       Jonathon Ave       Malouf Rd       Fletcher Rd       Local       Road Preservation       Microsurface       1.1         alouf Rd       Jonathon Ave       Fletcher Rd       Local       Road Preservation       Microsurface       1.5         alouf Rd       Jona	aen St ancaster Blvd reet Name Bth St W Bth St W Dth St W Dth St W St St W St St W St St W St St W EB St St W WB 2nd St W EB 2nd St W WB 2nd St W S 2nd St W S 2nd St W S 2nd St W B 2nd St W S 2nd St W S 2nd St W B 2nd St W 2nd St W	Lancaster Blvd Dieppe St 2021 PRO. Ave P S Ave P S Ave H S Ave H S Ave W S Ave I N Ave I N Ave G N Ave G N Ave G N Ave G N Ave G N Ave D N 23rd St W Wellington St 20th St W Schuyler St	Dundonald Ave Ortona St JECTED ROADWAY PRESERVATION L To Ave K S Ave L S 2nd Ave S Ave U S Idvlwyld Dr N Ave G N Ave H N Ave G N Ave H N Ave F N Jamieson St Schuyler St 22nd St W 11th St W	Collector Collector Collector Road Class Local Local Local Local Local Local Local Local Local Local Local Local Collector	W&S Restoration Road Preservation Project Type Road Preservation Road Preservation	Reconstruction Reconstruction 2020 Totals Treatment Microsurface Microsurface Resurface Resurface Resurface Reconstruction Reconstruction Reconstruction Reconstruction Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface	0.7 0.3 18.4 Lane-Km 1.3 1.1 0.5 2.4 0.2 0.2 0.4 0.4 0.5 0.5 1.2 1.5 0.6	
e X S       Schuyler St       11th St W       Local       Road Preservation       Microsurface       1.2         ien St       Elevator Rd       Rockingham Ave       Collector       Road Preservation       Reconstruction       1.3         idley St       Ave W S       Ave P S       Local       Road Preservation       Reconstruction       1.9         idley St       Ave W S       Ave W S       Local       Road Preservation       Reconstruction       0.3         idley St       Ave C N       Id/lwyld Dr N       Collector       Road Preservation       Reconstruction       0.4         mieson St       Ave C N       Id/lwyld Dr N       Collector       Road Preservation       Reconstruction       0.4         alouf Rd       Fletcher Rd       Local       Road Preservation       Resurface       0.3         alouf Rd       Jonathon Ave       Barnes Ave       Local       Road Preservation       Microsurface       1.1         alouf Rd       Jonathon Ave       Fletcher Rd       Local       Road Preservation       Microsurface       1.5         alouf Rd       Jonathon Ave       Fletcher Rd       Local       Road Preservation       Microsurface       1.5         huyler St       Ave P S       Ave L S	aen St ancaster Blvd treet Name Bth St W Bth Sth St W Bth Sth Sth Sth Sth Sth Sth Sth Sth Sth S	Lancaster Blvd Dieppe St 2021 PRO. From Ave P S Ave P S Ave H S Ave W S Ave I N Ave I N Ave I N Ave G N Ave F N Ave F N Ave D N 23rd St W Wellington St 20th St W Schuyler St 20th St W End	Dundonald Ave Ortona St JECTED ROADWAY PRESERVATION L To Ave K S Ave L S 2nd Ave S Ave U S Idylwyld Dr N Ave G N Ave G N Ave D N Ave D N Ave F N Jamieson St Schuyler St 22nd St W 11th St W 22nd St W EB Dudley St	Collector Collector Collector Road Class Local	W&S Restoration Road Preservation Road Preservation	Reconstruction Reconstruction 2020 Totals Treatment Microsurface Microsurface Microsurface Resurface Resurface Reconstruction Reconstruction Reconstruction Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface	0.7 0.3 18.4 Lane-Km 1.3 1.1 0.5 2.4 0.2 0.2 0.4 0.4 0.5 0.4 0.4 0.5 1.2 1.5 0.8	
en St       Elevator Rd       Rockingham Ave       Collector       Road Preservation       Reconstruction       1.3         idley St       Ave W S       Ave P S       Local       Road Preservation       Reconstruction       1.9         idley St       Ave X S       Ave W S       Local       Road Preservation       Reconstruction       0.3         ida Ave       Ortona St       Arnhem St       Local       Road Preservation       Reconstruction       0.4         mieson St       Ave C N       Idylwyld Dr N       Collector       Road Preservation       Reconstruction       0.4         alouf Rd       Fletcher Rd       Local       Road Preservation       Resurface       0.3         alouf Rd       Jonathon Ave       Malouf Rd       Barnes Ave       Local       Road Preservation       Resurface       1.1         alouf Rd       Jonathon Ave       Fletcher Rd       Local       Road Preservation       Resurface       1.1         alouf Rd       Jonathon Ave       Fletcher Rd       Local       Road Preservation       Reconstruction       0.7         waler St       Ave P S       Ave       Local       Road Preservation       Microsurface       1.5         rmmandy St       Elevator Rd       Haida	aen St ancaster Blvd treet Name 3th St W 5th St W 5th St W 5th St W 1st St W 3rd St W 1st St W EB 1st St W EB 2rd St W BB 2rd St W BB 2rd St W B 2rd St W B ve C N ve P S ve P S ve U S ve V S	Lancaster Blvd       Dieppe St       2021 PRO.       From       Ave P S       Ave P S       Ave H S       Ave W S       Ave I N       Ave G N       Ave G N       Ave D N       23rd St W       Wellington St       20th St W       Schuyler St       20th St W       End       21st St W	Dundonald Ave Ortona St JECTED ROADWAY PRESERVATION L To Ave K S Ave L S 2nd Ave S Ave U S Idvlwyld Dr N Ave G N Ave H N Ave G N Ave H N Ave F N Jamieson St Schuyler St 22nd St W 22nd St W EB	Collector Collector Collector Collector Road Class Local	W&S Restoration Road Preservation Project Type Road Preservation Road Preservation	Reconstruction Reconstruction 2020 Totals Treatment Microsurface Microsurface Resurface Resurface Reconstruction Reconstruction Reconstruction Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface	0.7 0.3 18.4 Lane-Km 1.3 1.1 4.1 0.5 2.4 0.2 0.2 0.2 0.4 0.4 0.5 0.5 1.2 1.5 0.8 0.8 0.4	
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Indep St     Ave X S     Ave W S     Local     Road Preservation     Microsurface     0.3       ida Ave     Ortona St     Arnhem St     Local     Road Preservation     Reconstruction     0.4       mieson St     Ave C N     Idylwyld Dr N     Collector     Road Preservation     Resurface     0.3       nathon Ave     Malouf Rd     Fletcher Rd     Local     Road Preservation     Resurface     1.1       alouf Rd     Fletcher Rd     Barnes Ave     Local     Road Preservation     Microsurface     1.1       alouf Rd     Jonathon Ave     Fletcher Rd     Local     Road Preservation     Microsurface     1.1       alouf Rd     Jonathon Ave     Fletcher Rd     Local     Road Preservation     Microsurface     1.5       armandy St     Elevator Rd     Haida Ave     Local     Road Preservation     Microsurface     1.5       huyler St     Ave P S     Ave L S     Collector     Road Preservation     Resurface     1.1       huyler St     Dawes Ave     Ave W S / Fletcher Rd     Local     Road Preservation     Resurface     1.1       structure     Ave P S     Ave L S     Collector     Road Preservation     Resurface     1.1       huyler St     Dawes Ave     Ave W S / Fletcher Rd<	aen St ancaster Blvd treet Name 3th St W 5th St W 9th St W 9th St W 1st St W B 2nd St W EB 1st St W EB 2nd St W EB 2nd St W B 2nd St W B 2nd St W B ve C N ve C N ve N S ve P S ve U S ve W S ve X S	Lancaster Blvd         Dieppe St         2021 PRO.         From         Ave P S         Ave P S         Ave H S         Ave W S         Ave H N         Ave F N         Ave F N         Ave D N         23rd St W         Wellington St         20th St W         Schuyler St         20th St W         End         21st St W         Schuyler St         Schuyler St	Dundonald Ave Ortona St  JECTED ROADWAY PRESERVATION L To Ave K S Ave L S 2nd Ave S Ave U S Idvlwyld Dr N Ave G N Ave G N Ave H N Ave D N Ave F N Jamieson St Schuyler St 22nd St W 11th St W 22nd St W EB Dudley St 22nd St W EB 11th St W	Collector Collector Collector Collector Road Class Local Collector Local Collector Local Local	W&S Restoration Road Preservation Road Preservation	Reconstruction Reconstruction 2020 Totals Treatment Microsurface Microsurface Resurface Resurface Reconstruction Reconstruction Reconstruction Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Microsurface Microsurface	0.7 0.3 18.4 1.3 1.1 0.5 2.4 0.2 0.2 0.4 0.4 0.5 1.2 1.2 1.5 0.8 0.8 0.4 1.2 1.2	
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mieson St     Ave C N     Idylwyld Dr N     Collector     Road Preservation     Resurface     0.3       nathon Ave     Malouf Rd     Fletcher Rd     Local     Road Preservation     Microsurface     1.1       alouf Rd     Fletcher Rd     Barnes Ave     Local     Road Preservation     Microsurface     1.1       alouf Rd     Jonathon Ave     Fletcher Rd     Barnes Ave     Local     Road Preservation     Microsurface     1.5       alouf Rd     Jonathon Ave     Fletcher Rd     Local     Road Preservation     Microsurface     1.5       alouf Rd     Jonathon Ave     Fletcher Rd     Local     Road Preservation     Reconstruction     0.7       huyler St     Ave P S     Ave L S     Collector     Road Preservation     Resurface     1.1       huyler St     Dawes Ave     Ave W S / Fletcher Rd     Local     Road Preservation     Microsurface     1.1       huyler St     Dawes Ave     Ave W S / Fletcher Rd     Local     Road Preservation     Microsurface     1.1       huyler St     Dawes Ave     Ave W S / Fletcher Rd     Local     Road Preservation     Microsurface     1.8       1000000000000000000000000000000000000	aen St ancaster Blvd treet Name Sth St W Sth St W Sth St W St St W St St W St St W St St W EB St St W WB 2nd St W EB 2nd St W WB we C N we N S we C N we N S we P S we U S we U S we W S we X S aen St udley St	Lancaster Blvd         Dieppe St         2021 PRO.         From         Ave P S         Ave P S         Ave H S         Ave W S         Ave H N         Ave G N         Ave D N         23rd St W         Wellington St         20th St W         Schuyler St         20th St W         Schuyler St         20th St W         End         21st St W         Schuyler St         Schuyler St         Elevator Rd         Ave W S	Dundonald Ave Ortona St JECTED ROADWAY PRESERVATION L To Ave K S Ave L S 2nd Ave S Ave U S Idylwyld Dr N Ave G N Ave G N Ave H N Ave F N Jamieson St Schuyler St 22nd St W 11th St W 22nd St W EB Dudley St 22nd St W EB 11th St W 11th St W Rockingham Ave Ave P S	Collector Collector Collector Collector Road Class Local Local Local Local Local Local Local Local Local Local Local Local Local Local Local Local Local Local Local Collector Local Local Collector Local Local	W&S Restoration Road Preservation Road Preservation	Reconstruction Reconstruction 2020 Totals Treatment Microsurface Microsurface Resurface Resurface Reconstruction Reconstruction Reconstruction Resurface	0.7 0.3 18.4 Lane-Km 1.3 1.1 4.1 0.5 2.4 0.2 0.2 0.4 0.5 0.5 1.2 1.5 0.8 0.8 0.4 0.4 0.5 0.5 1.2 1.2 1.3 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	
nathon Ave     Malouf Rd     Fletcher Rd     Local     Road Preservation     Microsurface     1.1       alouf Rd     Fletcher Rd     Barnes Ave     Local     Road Preservation     Resurface     1.1       alouf Rd     Jonathon Ave     Fletcher Rd     Local     Road Preservation     Resurface     1.1       alouf Rd     Jonathon Ave     Fletcher Rd     Local     Road Preservation     Resurface     1.5       mrmandy St     Elevator Rd     Haida Ave     Local     Road Preservation     Reconstruction     0.7       huyler St     Ave P S     Ave L S     Collector     Road Preservation     Resurface     1.1       huyler St     Dawes Ave     Ave W S / Fletcher Rd     Local     Road Preservation     Resurface     1.1       the stress of the stres of the st	aen St ancaster Blvd treet Name 3th St W 5th St W 5th St W 5th St W 3rd St W 1st St W BB 2nd St W BB 2nd St W BB 2nd St W WB ve C N ve N S ve P S ve P S ve V S ve U S ve V S ve V S ve W S ve X S aen St udley St udley St	Lancaster Blvd         Dieppe St         2021 PRO.         From         Ave P S         Ave P S         Ave H S         Ave W S         Ave H N         Ave F N         Ave G N         Ave F N         Zand St W         Wellington St         20th St W         Schuyler St         20th St W         End         21st St W         Schuyler St         Schuyler St         Elevator Rd         Ave W S         Ave W S         Ave W S	Dundonald Ave Ortona St  JECTED ROADWAY PRESERVATION L To Ave K S Ave L S 2nd Ave S Ave U S Idylwyld Dr N Ave G N Ave G N Ave H N Ave D N Ave F N Jamieson St Schuyler St 22nd St W 11th St W 22nd St W EB Dudley St 22nd St W EB 11th St W 11th St W Rockingham Ave Ave P S Ave W S	Collector Collector	W&S Restoration Road Preservation Road Preservation	Reconstruction Reconstruction 2020 Totals Treatment Microsurface Microsurface Resurface Resurface Reconstruction Reconstruction Reconstruction Reconstruction Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Microsurface Microsurface Reconstruction Resurface	0.7 0.3 18.4 1.3 1.1 0.5 2.4 0.2 0.2 0.4 0.5 0.5 0.5 1.2 1.5 0.5 0.5 1.2 1.5 0.5 0.5 1.2 1.2 1.2 1.2 1.3 0.8 0.8 0.8 0.8 0.4	
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alouf Rd     Jonathon Ave     Fletcher Rd     Local     Road Preservation     Microsurface     1.5       rrmandy St     Elevator Rd     Haida Ave     Local     Road Preservation     Reconstruction     0.7       huyler St     Ave P S     Ave L S     Collector     Road Preservation     Resurface     1.1       huyler St     Dawes Ave     Ave W S / Fletcher Rd     Local     Road Preservation     Microsurface     1.8       2021 Totals     30.1	aen St ancaster Blvd treet Name 3th St W 5th St W 5th St W 5th St W 3rd St W 1st St W 1st St W EB 1st St W EB 1st St W WB 2rd St W WB ve C N ve C N ve N S ve P S ve V S ve U S ve U S ve V S ve W S ve X S aen St udley St ud	Lancaster Blvd         Dieppe St         2021 PRO.         From         Ave P S         Ave P S         Ave H S         Ave W S         Ave I N         Ave G N         Ave G N         Ave D N         23rd St W         Wellington St         20th St W         Schuyler St         20th St W         Schuyler St         20th St W         Schuyler St         Ortona St         Ave C N	Dundonald Ave Ortona St JECTED ROADWAY PRESERVATION L To Ave K S Ave L S 2nd Ave S Ave U S Idvlwyld Dr N Ave G N Ave H N Ave G N Ave H N Ave F N Jamieson St Schuyler St 22nd St W 11th St W 22nd St W EB Dudley St 22nd St W EB 11th St W 11th St W Rockingham Ave Ave P S Ave W S Arnhem St Idvlwyld Dr N	Collector Collector	W&S Restoration Road Preservation Project Type Road Preservation Road Preservation	Reconstruction Reconstruction 2020 Totals Treatment Microsurface Microsurface Resurface Resurface Reconstruction Reconstruction Reconstruction Resurface Microsurface Microsurface Reconstruction Resurface Resurface Resurface Resurface Reconstruction Resurface Reconstruction Resurface Reconstruction Resurface Reconstruction Resurface Re	0.7 0.3 18.4 Lane-Km 1.3 1.1 4.1 0.5 2.4 0.2 0.2 0.2 0.4 0.5 0.5 0.5 1.2 1.5 0.8 0.4 0.5 0.5 1.2 1.5 0.8 0.4 0.4 0.4 0.4 0.5 1.3 1.3 1.3 1.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	
ormandy St         Elevator Rd         Haida Ave         Local         Road Preservation         Reconstruction         0.7           huyler St         Ave P S         Ave L S         Collector         Road Preservation         Resurface         1.1           huyler St         Dawes Ave         Ave W S / Fletcher Rd         Local         Road Preservation         Microsurface         1.8           2021 Totals         30.1	aen St ancaster Blvd treet Name 3th St W 5th St W 5th St W 3rd St W 3rd St W 3rd St W 1st St W EB 1st St W WB 2rd St W WB 2rd St W WB ve C N ve C N ve C N ve P S ve V S ve X S aen St udley St udley St aida Ave amison St onathon Ave	Lancaster Blvd         Dieppe St         2021 PRO.         From         Ave P S         Ave P S         Ave H S         Ave W S         Ave H N         Ave F N         Ave G N         Ave J N         23rd St W         Wellington St         20th St W         Schuyler St         20th St W         End         21st St W         Schuyler St         Schuyler St         Schuyler St         Ave W S         Ave X S         Ortona St         Ave C N         Malouf Rd	Dundonald Ave Ortona St JECTED ROADWAY PRESERVATION L To Ave K S Ave L S 2nd Ave S Ave U S Idylwyld Dr N Ave G N Ave G N Ave H N Ave G N Ave H N Ave F N Jamieson St Schuyler St 22nd St W 11th St W 22nd St W EB Dudley St 22nd St W EB Dudley St 22nd St W EB 11th St W 11th St W Rockingham Ave Ave P S Ave W S Arnhem St Idylwyld Dr N Fletcher Rd	Collector Collector	W&S Restoration Road Preservation Road Preservation	Reconstruction Reconstruction 2020 Totals Treatment Microsurface Microsurface Resurface Resurface Resurface Reconstruction Reconstruction Reconstruction Resurface Microsurface Reconstruction Microsurface Resurface Resurface Resurface Resurface Microsurface Resurface Resurface Resurface Resurface Microsurface Reconstruction Resurface R	0.7 0.3 18.4 Lane-Km 1.3 1.1 0.5 2.4 0.2 0.2 0.4 0.5 0.2 0.2 0.4 0.5 0.5 1.2 1.5 0.5 1.2 1.5 0.5 1.2 1.2 1.2 1.3 1.9 0.3 0.4 0.3 0.4 0.3 1.1	
huyler St         Ave P S         Ave L S         Collector         Road Preservation         Resurface         1.1           huyler St         Dawes Ave         Ave W S / Fletcher Rd         Local         Road Preservation         Microsurface         1.8           2021 Totals         30.1	aen St ancaster Blvd treet Name Sth St W Sth St W Sth St W Sth St W Sth St W St St W St St W EB 2nd St W WB 2nd St W EB 2nd St W WB ve C N ve N S ve P S ve P S ve P S ve V S ve V S ve V S ve V S ve X S aen St udley St aida Ave amisson St onathon Ave alouf Rd	Lancaster Blvd         Dieppe St         2021 PRO.         From         Ave P S         Ave P S         Ave P S         Ave IN         Ave IN         Ave IN         Ave F N         Ave F N         Ave D N         23rd St W         Wellington St         20th St W         Schuyler St         20th St W         Schuyler St         Schuyler St         Elevator Rd         Ave X S         Ortona St         Ave C N         Malouf Rd         Fletcher Rd	Dundonald Ave Ortona St JECTED ROADWAY PRESERVATION I To Ave K S Ave L S 2nd Ave S Ave U S Idylwyld Dr N Ave G N Ave G N Ave G N Ave G N Ave F N Jamieson St Schuyler St 22nd St W 11th St W 22nd St W EB Dudley St 22nd St W EB 11th St W 11th St W Rockingham Ave Ave P S Ave W S Arnhem St Idylwyld Dr N Fletcher Rd Barnes Ave	Collector Collector	W&S Restoration Road Preservation Road Preservation	Reconstruction Reconstruction 2020 Totals Treatment Microsurface Microsurface Resurface Resurface Reconstruction Reconstruction Reconstruction Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Microsurface Microsurface Reconstruction Resurface Reconstruction Resurface Reconstruction Resurface Microsurface Reconstruction Resurface Resurface Microsurface Resurface Microsurface Resurface Res	0.7 0.3 184 Lane-Km 1.3 1.1 4.1 0.5 2.4 0.2 0.2 0.4 0.5 0.5 0.5 0.5 0.5 0.4 0.4 0.2 1.2 1.5 0.8 0.4 0.4 1.2 1.3 1.9 0.3 1.1 1.2 1.2 1.5 0.8 0.8 0.4 0.4 0.5 0.5 0.5 0.8 1.2 1.2 1.3 1.3 1.1 1.3 1.1 1.2 1.3 1.1 1.3 1.1 1.2 1.3 1.1 1.3 1.1 1.2 1.3 1.1 1.3 1.3 1.1 1.3 1.3 1.1 1.3 1.3	
2021 Totals 30.1	aen St ancaster Blvd treet Name 3th St W 5th St W	Lancaster Blvd         Dieppe St         2021 PRO.         From         Ave P S         Ave P S         Ave H S         Ave IN         Ave H N         Ave G N         Ave F N         23rd St W         Wellington St         20th St W         Schuyler St         20th St W         Schuyler St         Dortona St         Ave C N         Malouf Rd         Fletcher Rd         Jonathon Ave	Dundonald Ave Ortona St JECTED ROADWAY PRESERVATION L To Ave K S Ave L S 2nd Ave S Ave U S Idviwyld Dr N Ave G N Ave G N Ave H N Ave G N Ave F N Jamieson St Schuyler St 22nd St W 11th St W 22nd St W EB Dudley St 22nd St W EB 11th St W 11th St	Collector Collector	W&S Restoration Road Preservation Road Preservation	Reconstruction Reconstruction 2020 Totals Treatment Microsurface Microsurface Resurface Resurface Reconstruction Reconstruction Reconstruction Resurface Microsurface Microsurface Reconstruction Reconstruction Resurface Microsurface Resurface Reconstruction Resurface Microsurface Resurface Reconstruction Resurface Reconstruction Resurface Microsurface Reconstruction Resurface Reconstruction Resurface Microsurface Reconstruction Resurface Reconstruction Recon	0.7 0.3 18.4 Lane-Km 1.3 1.1 4.1 0.5 2.4 0.2 0.2 0.2 0.4 0.5 0.5 0.5 1.2 1.5 0.8 0.4 0.5 0.5 1.5 1.5 0.8 0.8 0.4 0.4 0.4 0.4 0.5 1.3 1.3 1.1 1.5	
	aen St ancaster Blvd treet Name Sth St W Sth St W Sth St W Sth St W Tat St W Tat St W Tat St W EB Tat St W EB Tat St W WB Ve C N Ve N S Ve C N Ve N S Ve P S Ve V S Ve V S Ve V S Ve V S Ve V S Ve X S aen St udley S	Lancaster Blvd         Dieppe St         2021 PRO.         From         Ave P S         Ave P S         Ave H S         Ave W S         Ave H N         Ave G N         Ave D N         23rd St W         Wellington St         20th St W         Schuyler St         20th St W         Schuyler St         Ave W S         Ave X S         Ortona St         Ave C N         Malouf Rd         Fletcher Rd         Jonathon Ave         Elevator Rd	Dundonald Ave Ortona St JECTED ROADWAY PRESERVATION L To Ave K S Ave L S 2nd Ave S Ave U S Idylwyld Dr N Ave G N Ave G N Ave H N Ave F N Jamieson St Schuyler St 22nd St W 11th St W 22nd St W EB Dudley St 22nd St W EB Dudley St 22nd St W EB 11th St W Rockingham Ave Ave P S Ave P S Ave W S Arnhem St Idylwyld Dr N Fletcher Rd Barnes Ave Fletcher Rd Haida Ave	Collector Collec	W&S Restoration Road Preservation Road Preservation	Reconstruction Reconstruction 2020 Totals Treatment Microsurface Microsurface Resurface Resurface Reconstruction Reconstruction Reconstruction Resurface	0.7 0.3 18.4 Lane-Km 1.3 1.1 4.1 0.5 2.4 0.2 0.2 0.2 0.4 0.5 0.5 1.2 1.2 1.3 0.5 0.5 1.2 1.2 1.2 1.3 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.4 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	
	aen St           ancaster Blvd           roet Name           sth St W           sith St W	Lancaster Blvd         Dieppe St         2021 PRO.         From         Ave P S         Ave P S         Ave P S         Ave W S         Ave IN         Ave H N         Ave F N         Ave D N         23rd St W         Wellington St         20th St W         Schuyler St         20th St W         Schuyler St         Schuyler St         Schuyler St         Schuyler St         Schuyler St         Ortona St         Ave X S         Ortona St         Ave Y S         Avetor Rd         Ave Y S	Dundonald Ave Ortona St JECTED ROADWAY PRESERVATION I To Ave K S Ave L S 2nd Ave S Ave U S Idylwyld Dr N Ave G N Ave G N Ave G N Ave G N Ave G N Jamieson St Schuyler St 22nd St W 11th St W 22nd St W EB Dudley St 22nd St W EB 11th St W 11th St W 11th St W 11th St W 11th St W 11th St W Rockingham Ave Ave P S Ave W S Arnhem St Idylwyld Dr N Fletcher Rd Barnes Ave Fletcher Rd Haida Ave Ave L S	Collector Collector	W&S Restoration Road Preservation Road Preservation	Reconstruction Reconstruction 2020 Totals Treatment Microsurface Microsurface Resurface Resurface Reconstruction Reconstruction Reconstruction Resurface Resurface Resurface Resurface Resurface Resurface Resurface Resurface Reconstruction Resurface Microsurface Microsurface Reconstruction Resurface Microsurface Microsurface Microsurface Reconstruction Resurface Resurface Resurface Reconstruction Resurface Resurfac	0.7 0.3 184 1.3 1.1 4.1 0.5 2.4 0.2 0.2 0.4 0.5 0.5 0.5 0.5 0.5 0.4 0.4 0.2 0.4 0.4 0.5 0.4 0.2 0.4 0.4 0.5 0.5 0.8 0.8 0.4 1.2 1.2 1.3 1.1 1.5 0.8 0.4 1.3 1.1 1.2 1.5 0.8 0.4 1.2 1.5 0.5 1.2 1.5 0.8 0.4 1.5 0.5 1.2 1.5 0.8 0.4 1.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	
	aen St ancaster Blvd treet Name Sth St W Sth St W Sth St W Sth St W St St W St St W St St W BB St St W BB St St W BB 2nd St W BB 2nd St W BB we C N we N S we C N we P S we U S we U S we V S we W S we W S we W S we X S aen St udley St udley St auda Ave amieson St onathon Ave alouf Rd alouf Rd ormandy St	Lancaster Blvd         Dieppe St         2021 PRO.         From         Ave P S         Ave P S         Ave P S         Ave W S         Ave IN         Ave H N         Ave F N         Ave D N         23rd St W         Wellington St         20th St W         Schuyler St         20th St W         Schuyler St         Schuyler St         Schuyler St         Schuyler St         Schuyler St         Ortona St         Ave X S         Ortona St         Ave Y S         Avetor Rd         Ave Y S	Dundonald Ave Ortona St JECTED ROADWAY PRESERVATION I To Ave K S Ave L S 2nd Ave S Ave U S Idylwyld Dr N Ave G N Ave G N Ave G N Ave G N Ave G N Jamieson St Schuyler St 22nd St W 11th St W 22nd St W EB Dudley St 22nd St W EB 11th St W 11th St W 11th St W 11th St W 11th St W 11th St W Rockingham Ave Ave P S Ave W S Arnhem St Idylwyld Dr N Fletcher Rd Barnes Ave Fletcher Rd Haida Ave Ave L S	Collector Collector	W&S Restoration Road Preservation Road Preservation	Reconstruction Reconstruction 2020 Totals Treatment Microsurface Microsurface Resurface Resurface Resurface Reconstruction Reconstruction Resurface Microsurface Resurface Microsurface Micr	0.7 0.3 18.4 Lane-Km 1.3 1.1 4.1 0.5 2.4 0.2 0.2 0.4 0.5 0.5 1.2 0.2 0.4 0.4 0.5 0.5 1.5 0.8 0.8 0.4 1.2 1.5 0.8 0.4 1.3 1.9 0.3 0.4 0.3 1.1 1.1 1.3 1.1 1.5 0.5 1.5 0.7 1.3 1.3 1.1 1.5 0.5 0.5 1.5 0.7 1.3 1.5 0.7 1.3 1.5 0.7 1.3 1.5 0.7 1.5 0.7 1.3 1.5 0.5 0.5 0.5 0.5 0.5 1.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	

18.4 30.1 58.4

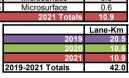


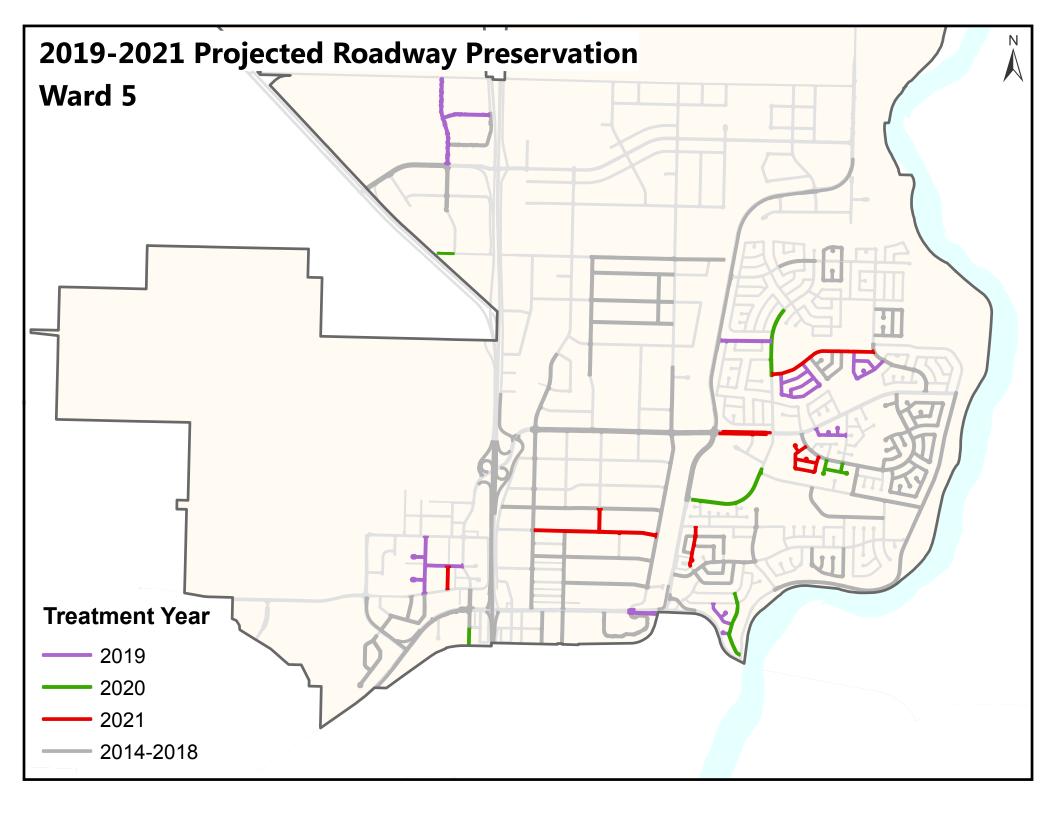
Street Name	From	То	Road Class	Project Type	Treatment	Lane-K
Blue Pl	McCormack Rd	End	Local	Road Preservation	UTO	0.3
Cartier Cres	John A MacDonald Rd	John A MacDonald Rd	Local	Road Preservation	Microsurface	2.0
Confederation Dr SB	Laurier Dr	Mall Entrance	Major Arterial	Road Preservation	Resurface	0.4
Diefenbaker Dr EB	End	Steeves Ave	Collector	Road Preservation	Microsurface	0.8
Diefenbaker Dr EB	Steeves Ave	Diefenbaker Dr / Laurier Dr	Minor Arterial	Road Preservation	Microsurface	5.3
Diggle Pl	Pendygrasse Rd	End	Local	Road Preservation	UTO	0.4
ochrie Cres	Pendygrasse Rd	Pendygrasse Rd	Local	Road Preservation	UTO	1.3
AcCormack Rd	Postnikoff Cres	Fairlight Dr	Collector	Road Preservation	Resurface	1.1
AcCormack Rd	Streb Cres	Postnikoff Cres	Collector	Road Preservation	UTO	2.0
Peeling Ave	Pendygrasse Rd	Forrester Rd	Local	Road Preservation	UTO	0.7
illey Äve	John A MacDonald Rd	33rd St W	Local	Road Preservation	Microsurface	0.6
		•			2019 Totals	14.8
	2020 PRO.	JECTED ROADWAY PRESERVATION LOCA	ATIONS			
Street Name	From	То	Road Class	Project Type	Treatment	Lane-K
Carter Cres	Steeves Ave	Steeves Ave	Local	Road Preservation	Microsurface	1.5
Carter Way	Carter Cres	Carter Cres	Local	Road Preservation	Microsurface	0.9
airlight Dr EB	Fairmont Dr	Fairmont Dr	Major Arterial	Road Preservation	Resurface	0.2
airlight Dr WB	Circle Dr / 22nd St W SW Ramp	Fairmont Dr	Major Arterial	Road Preservation	Resurface	0.4
Pendygrasse Rd	Fairlight Dr	Henigman Pl	Collector	Road Preservation	Resurface	3.4
					2020 Totals	6.4
	2021 PRO.	JECTED ROADWAY PRESERVATION LOCA	ATIONS			
Street Name	From	То	Road Class	Project Type	Treatment	Lane-K
iefenbaker Dr NB	Fairlight Dr	22nd St W	Major Arterial	Road Preservation	Microsurface	0.9
Diefenbaker Dr SB	22nd St W	Fairlight Dr	Major Arterial	Road Preservation	Microsurface	0.8
airlight Dr EB	McCormack Rd / Olmstead Rd	Fairmont Dr	Major Arterial	Road Preservation	Microsurface	2.3
airlight Dr WB	Fairmont Dr	McCormack Rd / Pendygrasse Rd	Major Arterial	Road Preservation	Microsurface	4.4
Sherry Cres	McCormack Rd	McCormack Rd	Local	Road Preservation	Microsurface	2.3
Sherry Crt	End of Cul-De-Sac	Sherry Way	Local	Road Preservation	Reconstruction	0.2
Sherry PI	End of Cul-De-Sac	Sherry Way	Local	Road Preservation	Microsurface	0.2
	Sherry Cres	Sherry Cres	Local	Road Preservation	Microsurface	0.7
Sherry Way		Smith Rd	Local	Road Preservation	Microsurface	0.9
	McCormack Rd	oniunità				
Sherry Way Smith Cres Smith Pl	McCormack Rd End of Cul-De-Sac	Smith Rd	Local	Road Preservation	Microsurface	0.2
Smith Cres			Local Collector	Road Preservation Road Preservation	Microsurface Microsurface	0.2

Microsurface	1.2
2021 Totals	14.0
	Lane-Km
2019	14.8
2020	6.4
2021	14.0
2019-2021 Totals	35.2



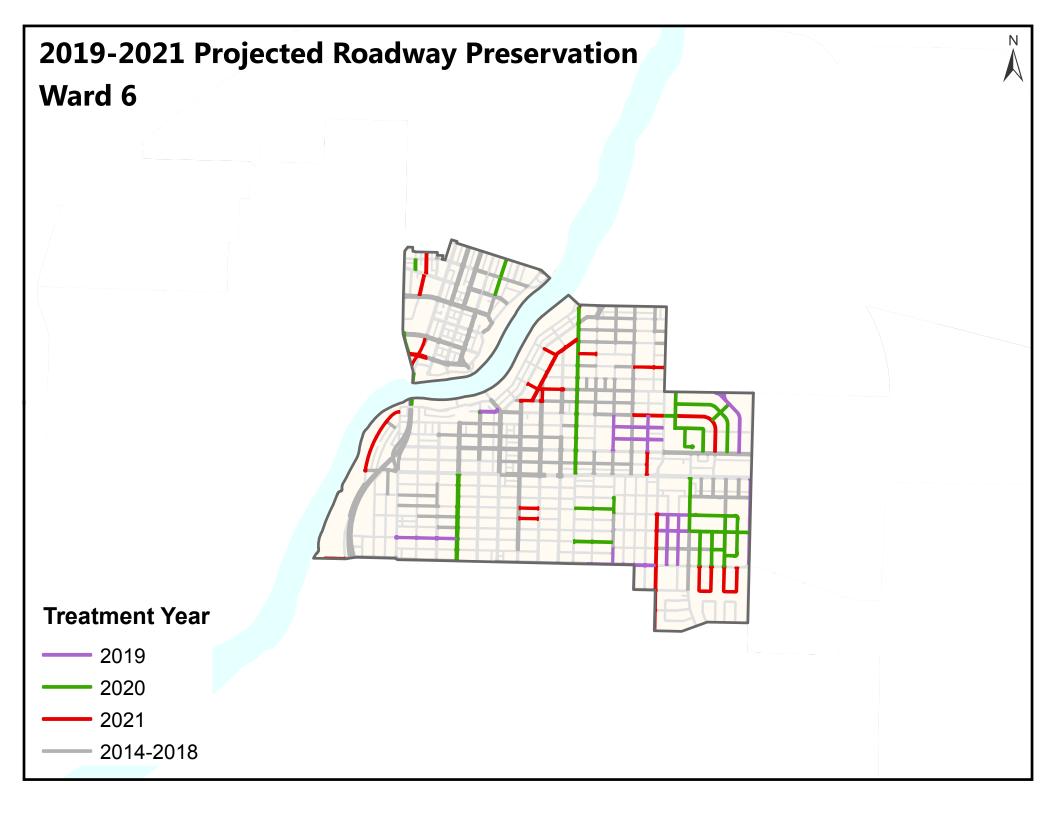
Street Name	From	То	Road Class	Project Type	Treatment	Lane-Km
29th St W	Ave W N	Ave T N	Collector	Road Preservation	Resurface	1.1
33rd St W	Confederation Dr / Wedge Rd	Junor Ave	Major Arterial	Road Preservation	Resurface	3.0
Ave R N	29th St W	31st St W	Local	Road Preservation	Microsurface	3.0
	29th St W	31st St W		Road Preservation		
Ave S N			Local		Microsurface	1.0
Ave T N	22nd St W	31st St W	Local	Road Preservation	Microsurface	3.7
Ave U N	29th St W	30th St W	Local	Road Preservation	Microsurface	0.5
Ave V N	29th St W	31st St W	Local	Road Preservation	Microsurface	1.0
Latrace Rd	33rd St W	37th St W	Collector	Road Preservation	Microsurface	3.1
Latrace Rd	37th St W	End	Collector	Road Preservation	Microsurface	0.1
_ennon Cres	Latrace Rd	Latrace Rd	Local	Road Preservation	UTO	1.3
Lewis Cres	Richardson Rd	Richardson Rd	Local	Road Preservation	SUTO	1.0
Massey Dr	Confederation Dr	Northumberland Ave	Collector	Road Preservation	Microsurface	1.9
Murray Pl	Latrace Rd	End	Local	Road Preservation	Microsurface	0.3
Robinson Cres	Latrace Rd	Latrace Rd	Local	Road Preservation	UTO	1.3
	· · · · ·			·	2018 Totals	20.5
		JECTED ROADWAY PRESERVATION				
Street Name	From	То	Road Class	Project Type	Treatment	Lane-Km
30th St W	Ave W N	Ave R N	Local	Road Preservation	Reconstruction	1.4
Ave U N	22nd St W WB	Rusholme Rd	Local	Road Preservation	Microsurface	1.4
Ave V N	22nd St W WB	Rusholme Rd	Local	Road Preservation	Microsurface	1.4
Bedford Rd	Ave W N	Ave T N	Local	Road Preservation	Microsurface	0.7
Matheson Dr	Massey Dr	33rd St W	Local	Road Preservation	Microsurface	2.9
Matheson Pl	Matheson Dr	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.4
Richardson Rd	Junor Ave	Ave Y N	Collector	Road Preservation	Microsurface	2.4
					2020 Totals	10.6
	2021 BBO	JECTED ROADWAY PRESERVATION				
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
37th St W	Peterson Cres	Richardson Rd	Collector	Road Preservation	Resurface	4.2
Ave U N	30th St W	31st St W	Local	W&S Restoration	Reconstruction	0.6
Bedford Rd	Montreal Ave N	Ave W N	Local	Road Preservation	Reconstruction	1.0
McCann Way	McCann Way	McCann Way	Local	Road Preservation	Microsurface	0.1
McCann Way	Nixon Cres	George Rd / Ward Rd	Local	Road Preservation	Reconstruction	0.2
McCann Way	Nixon Cres	Nixon Cres	Local	Road Preservation	Microsurface	0.6
Nixon Cres	37th St W	37th St W	Local	Road Preservation	Microsurface	1.6
Peterson Cres	Junor Ave	37th St W	Local	Road Preservation	SUTO	1.2
Peterson Crt	Peterson Cres	End of Cul-De-Sac	Local	Road Preservation	SUTO	0.3
Peterson Terr	Peterson Cres	End of Cul-De-Sac	Local	Road Preservation	SUTO	0.3
Ward Crt	Ward Rd	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.3
Ward Rd	George Rd	Junor Ave	Local	Road Preservation	Microsurface	0.6
Ward Rd	George Rd	Junor Ave	Local	Road Preservation	2021 Totals	





Street Name	From	То	Road Class	Project Type	Treatment	Lane-Km
David Knight Cres	Meilicke Rd	Meilicke Rd	Local	Road Preservation	Microsurface	2.6
David Knight Lane	David Knight Cres	David Knight Cres	Local	Road Preservation	Microsurface	0.8
avid Knight Way	David Knight Cres	David Knight Cres	Local	Road Preservation	Microsurface	0.9
oerzen St	Wanuskewin Rd	Russell Rd	Collector	Road Preservation	UTO	2.0
lanselman Ave	Cynthia St	45th St W	Collector	Road Preservation	Microsurface	1.9
lanselman Crt	End	Hanselman Ave	Local	Road Preservation	Microsurface	0.5
lanselman Pl	End	Hanselman Ave	Local	Road Preservation	Microsurface	0.5
laskamp St	Hanselman Ave	Ave C N	Local	Road Preservation	Microsurface	1.2
J Thiessen Cres	Meilicke Rd	Silverwood Rd	Local	Road Preservation	Microsurface	1.7
J Thiessen Terr	JJ Thiessen Cres	End	Local	Road Preservation	Microsurface	0.2
J Thiessen Way	JJ Thiessen Cres	JJ Thiessen Cres	Local	Road Preservation	Microsurface	0.6
leepawa St	Thatcher Ave	Wakooma St	Local	Road Preservation	Microsurface	1.8
lokimos Bav	Nokomis Cres	End	Local	Road Preservation	Microsurface	0.1
lokomis Cres	Lenore Dr	La Loche Rd	Local	Road Preservation	Microsurface	1.0
lokomis Pl	Nokomis Cres	End	Local	Road Preservation	Microsurface	0.2
embina Pl	End			Road Preservation	Microsurface	0.2
Red Deer Rd	Pembina Ave	Pembina Ave Columbia Dr	Local	Road Preservation	Microsurface	0.2
Souris Crt	Red Deer Rd	End	Local	Road Preservation	Microsurface	0.2
hatcher Ave	Marquis Dr W	71st St W	Collector	Road Preservation	Resurface	3.6
					2018 Totals	s 21.0
		JECTED ROADWAY PRESERVATION LOC				-
treet Name	From	То	Road Class	Project Type	Treatment	Lane-Km
0th St W	Dead End	Thatcher Ave	Local	Road Preservation	Reconstruction	0.3
embina Ave	Columbia Dr	Red River Rd	Local	Road Preservation	Reconstruction	0.2
embina Ave	Spadina Cres E	Columbia Dr	Local	Road Preservation	Resurface	1.9
rimrose Dr	Warman Rd	Cree Cres	Minor Arterial	Road Preservation	Resurface	3.2
Russell Rd	Meilicke Rd	Wakabayashi Cres	Collector	Road Preservation	Microsurface	2.6
urtle Cres	Redberry Rd	Redberry Rd	Local	Road Preservation	UTO	1.0
urtle Crt	End of Cul-De-Sac	Turtle Cres	Local	Road Preservation	UTO	0.2
urtle Pl	Turtle Cres	End of Cul-De-Sac	Local	Road Preservation	UTO	0.2
					2020 Totals	9.5
	2021 PRO.	JECTED ROADWAY PRESERVATION LOC	CATIONS			
treet Name	From	То	Road Class	Project Type	Treatment	Lane-Km
6th St E	Faithfull Ave	Millar Ave	Collector	Road Preservation	Resurface	4.4
ochin Cres	Redberry Rd	Redberry Rd	Local	Road Preservation	UTO	1.8
ochin Pl	Cochin Way	End of Cul-De-Sac	Local	Road Preservation	UTO	0.1
ochin Terr	Cochin Cres	End of Cul-De-Sac	Local	Road Preservation	UTO	0.2
Cochin Way	Cochin Cres	Cochin Cres	Local	Road Preservation	UTO	0.6
enore Dr EB	Wanuskewin Rd / Warman Rd	Primrose Dr / Russell Rd	Major Arterial	Road Preservation	Resurface	1.3
enore Dr WB	Primrose Dr / Russell Rd	Wanuskewin Rd / Warman Rd	Major Arterial	Road Preservation	Resurface	1.3
leilicke Rd	Russell Rd	Silverwood Rd	Collector	Road Preservation	Microsurface	3.3
peers Ave	Cynthia St	Haskamp St	Local	Road Preservation	SUTO	0.8
t Lawrence Cres	St Lawrence Crt	Churchill Dr	Local	Road Preservation	Resurface Resurface	1.5 0.8
/entz Ave	46th St E	47th St E	Collector	Road Preservation	2021 Totals	
				F	2021 1018	
				_	2019	Lane-Km 21.0

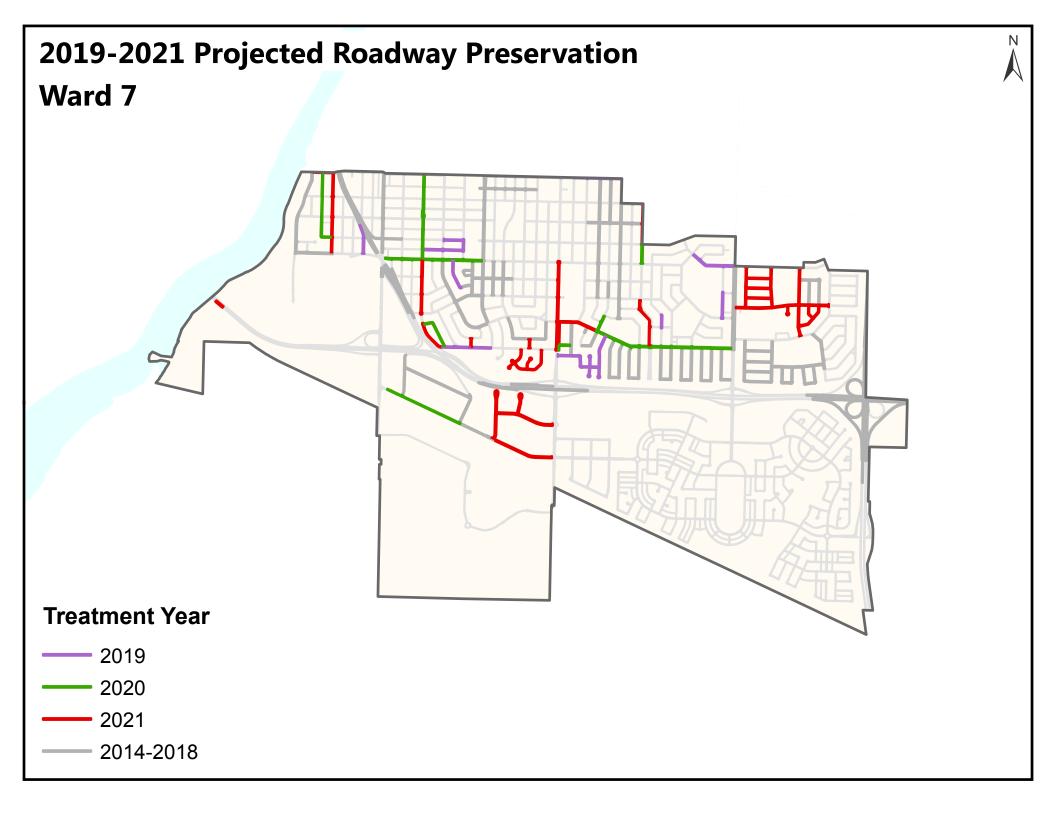
9.5 16.1 46.6 202 20 2019-2021 Totals



0th St E 1th St E 2th St E 2th St E nd St E rd St E th St E th St E	Munroe Ave S Munroe Ave S Eastlake Ave	Cumberland Ave S Cumberland Ave S	Local Local	Road Preservation	Microsurface	1.4
th St E th St E d St E d St E d St E n St E	Eastlake Ave	Cumberland Ave S	L ocal			
Rth St E nd St E d St E h St E			LUCAI	Road Preservation	Microsurface	1.4
nd St E d St E h St E		Broadway Ave	Local	W&S Restoration	Resurface	0.7
rd St E th St E	Wiggins Ave S	Cumberland Ave S	Collector	Road Preservation	Resurface	0.0
th St E	Lorne Ave	Victoria Ave	Local	W&S Restoration	Reconstruction	1.4
	Cumberland Ave S	Louise Ave	Local	Road Preservation	Microsurface	1.0
	Cumberland Ave S	Louise Ave	Local	Road Preservation	Microsurface	0.7
ate Cres	Main St	14th St E	Local	W&S Restoration	Reconstruction	2.2
wart Ave	Main St	12th St E	Local	Road Preservation	Microsurface	0.8
ackson Ave	Taylor St E	5th St E	Local	Road Preservation	Microsurface	1.4
lunroe Ave S	Main St	12th St E	Local	Road Preservation	Microsurface	0.8
ark Ave	Taylor St E	5th St E	Local	Road Preservation	Microsurface	1.1
reston Ave S NB	Louise Ave / Louise St	Armistice Way	Major Arterial	Road Preservation	Resurface	0.9
aylor St E	McKinnon Ave S	Cumberland Ave S	Minor Arterial	W&S Restoration	Resurface	2.3
	INICKIIIIIOII AVE S	Cumberrand Ave 3	WINDI Artenar	Was Residiation	2018 Totals	
					2016 10tais	15.9
	2020 PF	ROJECTED ROADWAY PRESERVATION LOCAT				
treet Name	From	То	Road Class	Project Type	Treatment	Lane-Kr
st St E	Sommerfeld Ave	Grosvenor Ave	Local	Road Preservation	Microsurface	0.3
nd St E	Clarence Ave S	Munroe Ave S	Local	Road Preservation	Reconstruction	1.1
rd St E	Louise Ave	Preston Ave S	Local	Road Preservation	Microsurface	1.8
th Ave N	23rd St E	25th St E	Local	Road Preservation	Resurface	1.1
th St E	Clarence Ave S	Munroe Ave S	Local	Road Preservation	Reconstruction	0.9
th St E	Louise Ave	Grosvenor Ave	Local	Road Preservation	Microsurface	1.0
larence Ave S	12th St E	Saskatchewan Cres E	Major Arterial	W&S Restoration	Resurface	3.7
larence Ave S	8th St E	12th St E	Major Arterial	Road Preservation	Resurface	2.0
Copland Cres	Main St	Leslie Ave	Local	Road Preservation	Microsurface	1.5
opland Crt	End of Cul-De-Sac	Copland Cres	Local	Road Preservation	Microsurface	0.7
arrison Cres	Cumberland Ave S	Leslie Ave	Collector	Road Preservation	Resurface	0.4
Frosvenor Ave	Taylor St E	5th St E / Shannon Cres	Local	Road Preservation	Microsurface	1.6
bister St	Garrison Cres	Bate Cres	Local	Road Preservation	Microsurface	0.6
ake Cres	Leslie Ave	Main St WB	Local	Road Preservation	Microsurface	2.7
eslie Ave	Copland Cres	14th St E	Local	Road Preservation	Microsurface	1.1
ouise Ave	3rd St E	8th St E	Collector	Road Preservation	Microsurface	1.6
lorgan Ave	Taylor St E	3rd St E	Local	Road Preservation	Microsurface	1.0
Iunroe Ave S	5th St E	6th St E	Local	Road Preservation	Reconstruction	0.4
hannon Cres	Grosvenor Ave	Grosvenor Ave	Local	Road Preservation	Microsurface	1.8
iommerfeld Ave	Taylor St E	3rd St E	Local	Road Preservation	Microsurface	1.0
/ictoria Ave NB	Taylor St E	8th St E	Collector		Resurface	1.6
				Road Preservation		
fictoria Ave SB	8th St E	Taylor St E	Collector	Road Preservation	Resurface	1.6
Vall St	23rd St E	24th St E	Local	Road Preservation	Reconstruction	0.3
					2018 Totals	29.8
	2021 PF	ROJECTED ROADWAY PRESERVATION LOCAT	IONS			
treet Name	From	То	Road Class	Project Type	Treatment	Lane-Km
2th St E	Wiggins Ave S	Cumberland Ave S	Collector	Road Preservation	Resurface	1.0
3th St E	Dufferin Ave	Temperance St	Local	W&S Restoration	Reconstruction	0.3
4th St E	Temperance St	Albert Ave	Local	W&S Restoration	Reconstruction	0.6
4th St E	University Dr	Temperance St	Local	W&S Restoration	Reconstruction	0.2
oth St E	University Dr	Temperance St	Local	W&S Restoration	Reconstruction	0.2
st Ave S SB	20th St E	Idylwyld Dr S	Expressway	Road Preservation	Microsurface	0.7
th St E	Dufferin Ave	Lansdowne Ave	Local	Road Preservation	Reconstruction	0.4
th St E	Dufferin Ave	Lansdowne Ave	Local	Road Preservation	Reconstruction	0.4
ird St	Clarence Ave N / Clarence Ave S		Local	W&S Restoration	Reconstruction	0.4
olony St	Wiggins Ave S	Cumberland Ave S	Local	Road Preservation	Reconstruction	0.7
umberland Ave S	Adelaide St E	5th St E	Minor Arterial	Road Preservation	Resurface	3.8
wart Ave	8th St E	Main St	Local	Road Preservation	Reconstruction	1.2
arrison Cres	Main St	Leslie Ave	Collector	Road Preservation	Resurface	2.3
rosvenor Cres	Taylor St E	Taylor St E	Local	Road Preservation	Microsurface	1.6
ansdowne Ave NB	13th St E	14th St E	Local	W&S Restoration	Reconstruction	0.7
lorgan Ave	Sommerfeld Ave	Taylor St E	Local	Road Preservation	Microsurface	0.9
acific Ave	22nd St E	25th St E	Local	Road Preservation	Resurface	1.5
					SUTO	
askatchewan Cres W	8th St W	Idylwyld Cres / Saskatchewan Cres E	Collector	Road Preservation		1.7
ommerfeld Ave	Morgan Ave	Taylor St E	Local	Road Preservation	Microsurface	0.6
aylor St W	St Henry Ave	Herman Ave / Saskatchewan Cres W	Collector	Road Preservation	Resurface	0.7
emperance St	13th St E	Clarence Ave N	Local	W&S Restoration	Reconstruction	2.7
					2020 Totals	22.7

22.

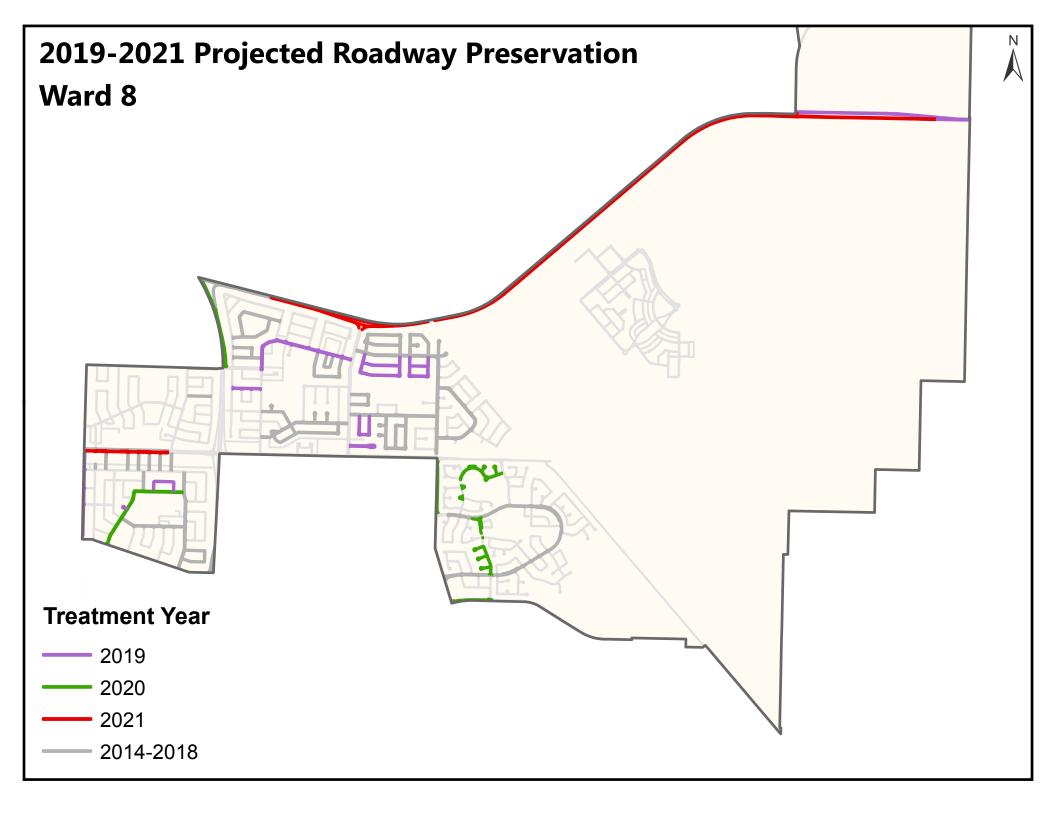
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Street Name	From	То	Road Class	Project Type	Treatment	Lane-Km
delaide St E	Victoria Ave	Eastlake Ave	Local	W&S Restoration	Reconstruction	0.6
sh St E	Melrose Ave	Eastlake Ave	Local	W&S Restoration	Reconstruction	1.2
alder Ave	Calder Cres	Wilson Cres	Local	Road Preservation	SUTO	1.0
Calder Cres	Clarence Ave S	Calder Ave / Calder Crt	Local	Road Preservation	SUTO	1.5
Calder Crt	End	Calder Cres	Local	Road Preservation	SUTO	0.3
Calder Pl	End	Calder Cres	Local	Road Preservation	SUTO	0.3
Calder Terr		End		Road Preservation	SUTO	0.3
	Calder Cres	-	Local			
astlake Ave	Ash St E	Adelaide St E	Local	W&S Restoration	Reconstruction	0.4
Blasgow St	Young Cres	Broadway Ave	Collector	W&S Restoration	Resurface	1.5
rvine Ave	Hanson St	Cascade St	Local	W&S Restoration	Reconstruction	0.4
ouise Ave	Preston Ave S	Murphy Cres / Ruth St E	Collector	Road Preservation	Resurface	1.5
orman Cres	Royal Ave	Ruth St E	Local	W&S Restoration	Reconstruction	1.1
t George Ave	Ruth St W	Adelaide St W	Collector	Road Preservation	Microsurface	0.4
/oodward Ave	Jarvis Dr	Guppy St	Local	W&S Restoration	Reconstruction	0.7
		-	-		2018 Totals	11.1
	2020 PRO.	IECTED ROADWAY PRESERVATION LO	OCATIONS			
treet Name	From	To	Road Class	Project Type	Treatment	Lane-Km
delaide St W	St Charles Ave	Herman Ave	Local	Road Preservation	Microsurface	0.3
airns Ave	Wilson Cres	MacKenzie Cres	Collector	Road Preservation	Reconstruction	0.5
larence Ave S (Side Street)	Lane	Glasglow St	Local	Road Preservation	Microsurface	0.1
umberland Ave S	Ruth St E	Adelaide St E		W&S Restoration	Resurface	0.6
Blasgow St	Clarence Ave S	Ferguson Ave	Local	Road Preservation	Microsurface	0.3
lelrose Ave	Ruth St E	Taylor St E	Local	Road Preservation	Microsurface	2.8
felville St	Lorne Ave	Portage Ave	Collector	Road Preservation	Reconstruction	1.8
tuth St E	Lorne Ave	Broadway Ave	Minor Arterial	Road Preservation	Resurface	3.2
t Charles Ave	Adelaide St W	Taylor St W	Local	Road Preservation	Microsurface	1.5
Vilson Cres	Cairns Ave / MacDermid Cres	Preston Ave S	Collector	Road Preservation	Resurface	4.8
oung Cres	Glasgow St	Melrose Ave	Local	Road Preservation	Microsurface	1.0
	Lensigen et				2020 Totals	16.9
	2021 PBO	IECTED ROADWAY PRESERVATION LO	OCATIONS			
treet Name	From	To	Road Class	Project Type	Treatment	Lane-Km
rand Pl	Brand Rd	End of Cul-De-Sac	Local	Road Preservation	Microsurface	1.0
and Rd	Melville St	Clarence Ave S	Local	Road Preservation	Microsurface	3.2
larence Ave S	Wilson Cres	Ruth St E	Minor Arterial	Road Preservation	Resurface	2.1
larence Ave S NB	Glasgow St	Wilson Cres	Minor Arterial	Road Preservation	Resurface	0.5
Clarence Ave S SB	Wilson Cres	Glasgow St	Minor Arterial	Road Preservation	Resurface	0.5
sumberland Ave S SB	Wilson Cres	Cascade St	Collector	Road Preservation	Resurface	1.2
ast Centre	Arlington Ave	Louise St	Local	Road Preservation	Microsurface	2.1
ast Centre	East Centre	East Drive	Local	Road Preservation	Microsurface	0.9
ast Centre	East Centre	East Drive	Local	Road Preservation	Microsurface	0.3
ast Drive	End of Cul-De-Sac	East Drive	Local	Road Preservation	Microsurface	0.3
ast Drive		Arlington Ave	Collector	Road Preservation	Microsurface	2.9
asi Diive	Preston Ave S	Anington Ave				1.1
	East Drive	Louise St	Local	Road Preservation	Microsurface	
ast Place				Road Preservation Road Preservation	Microsurface Microsurface	1.1
ast Place ast Place	East Drive	Louise St	Local			1.1 0.7
ast Place ast Place ast Place	East Drive East Drive	Louise St Louise St	Local Local	Road Preservation	Microsurface	
ast Place ast Place ast Place ast Place	East Drive East Drive East Place	Louise St Louise St East Place	Local Local Local	Road Preservation Road Preservation	Microsurface Microsurface	0.7
ast Place ast Place ast Place ast Place ast Place ast Place	East Drive East Drive East Place East Place	Louise St Louise St East Place East Place	Local Local Local Local	Road Preservation Road Preservation Road Preservation	Microsurface Microsurface Microsurface	0.7 0.7
ast Place ast Place ast Place ast Place ast Place erman Ave elrose Ave	East Drive East Drive East Place East Place East Place Ruth St W Cascade St	Louise St Louise St East Place East Place East Place Taylor St W Ruth St E	Local Local Local Local Local Collector Collector	Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation	Microsurface Microsurface Microsurface Microsurface Resurface Resurface	0.7 0.7 0.7 2.3 1.6
ast Place ast Place ast Place ast Place ast Place erman Ave elrose Ave	East Drive East Drive East Place East Place East Place Ruth St W	Louise St Louise St East Place East Place East Place Taylor St W	Local Local Local Local Local Collector	Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation	Microsurface Microsurface Microsurface Microsurface Resurface	0.7 0.7 0.7 2.3
ast Place ast Place ast Place ast Place ast Place erman Ave lelrose Ave lelrose Ave lelrose Ave	East Drive East Drive East Place East Place East Place Ruth St W Cascade St Young Cres / Glasgow St Brand Rd	Louise St Louise St East Place East Place East Place Taylor St W Ruth St E Young Cres Clarence Ave S	Local Local Local Local Local Collector Collector Collector	Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation	Microsurface Microsurface Microsurface Microsurface Resurface Resurface Resurface Resurface Microsurface	0.7 0.7 2.3 1.6 0.9 2.3
ast Place ast Place ast Place ast Place lerman Ave telrose Ave telrose Ave telville St tendel Cove	East Drive East Drive East Place East Place Ruth St W Cascade St Young Cres / Glasgow St Brand Rd End of Cul-De-Sac	Louise St Louise St East Place East Place Taylor St W Ruth St E Young Cres Clarence Ave S Mendel Cres	Local Local Local Local Local Collector Collector Collector	Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation	Microsurface Microsurface Microsurface Resurface Resurface Resurface Microsurface SUTO	0.7 0.7 2.3 1.6 0.9 2.3 0.2
ast Place ast Place ast Place ast Place lerman Ave lelrose Ave felrose Ave felrose Ave felville St lendel Cove lendel Cres	East Drive East Drive East Place East Place East Place Ruth St W Cascade St Young Cres / Glasgow St Brand Rd End of Cul-De-Sac Glasgow St	Louise St Louise St East Place East Place East Place Taylor St W Ruth St E Young Cres Clarence Ave S Mendel Cres Glasgow St	Local Local Local Local Local Collector Collector Collector	Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation	Microsurface Microsurface Microsurface Resurface Resurface Resurface Microsurface SUTO SUTO	0.7 0.7 2.3 1.6 0.9 2.3 0.2 1.6
ast Place ast Place ast Place ast Place ast Place lerman Ave lerose Ave delrose Ave delrose Ave delrose Ave delose Ave delose Cove dendel Cres lendel Green	East Drive East Drive East Place East Place East Place Ruth St W Cascade St Young Cres / Glasgow St Brand Rd End of Cul-De-Sac Glasgow St End of Cul-De-Sac	Louise St Louise St East Place East Place East Place Taylor St W Ruth St E Young Cres Clarence Ave S Mendel Cres Glasgow St Mendel Cres	Local Local Local Local Collector Collector Collector Local Local Local	Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation	Microsurface Microsurface Microsurface Resurface Resurface Resurface Microsurface SUTO SUTO SUTO	0.7 0.7 2.3 1.6 0.9 2.3 0.2 1.6 0.1
ast Place           ast Place           ast Place           ast Place           ast Place           lerman Ave           telrose Ave           telville St           tendel Cove           tendel Cres           tendel Green           tendel Forr	East Drive East Drive East Place East Place East Place Ruth St W Cascade St Young Cres / Glasgow St Brand Rd End of Cul-De-Sac Glasgow St End of Cul-De-Sac Mendel Cres	Louise St Louise St East Place East Place East Place Taylor St W Ruth St E Young Cres Clarence Ave S Mendel Cres Glasgow St Mendel Cres End of Cul-De-Sac	Local Local Local Local Collector Collector Collector Collector Local Local Local	Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation	Microsurface Microsurface Microsurface Resurface Resurface Resurface Microsurface SUTO SUTO SUTO SUTO SUTO	0.7 0.7 2.3 1.6 0.9 2.3 0.2 1.6 0.1 0.3
ast Place ast Place ast Place ast Place ast Place lerman Ave lelrose Ave lelrose Ave lelrose Ave lelville St lendel Cove lendel Cres lendel Green lendel Terr urner Ave	East Drive East Drive East Place East Place East Place Ruth St W Cascade St Young Cres / Glasgow St Brand Rd End of Cul-De-Sac Glasgow St End of Cul-De-Sac Mendel Cres Glasgow St	Louise St Louise St East Place East Place East Place Taylor St W Ruth St E Young Cres Clarence Ave S Mendel Cres Glasgow St Mendel Cres End of Cul-De-Sac McAskill Cres	Local Local Local Local Collector Collector Collector Local Local Local Local	Road Preservation Road Preservation	Microsurface Microsurface Microsurface Resurface Resurface Resurface SUTO SUTO SUTO SUTO SUTO Reconstruction	0.7 0.7 2.3 1.6 0.9 2.3 0.2 1.6 0.1 0.3 0.2
ast Place           ast Place           ast Place           ast Place           ast Place           erman Ave           lelrose Ave           lelrose Ave           lelville St           lendel Cove           lendel Cres           lendel Green           lendel Frer	East Drive East Drive East Place East Place East Place Ruth St W Cascade St Young Cres / Glasgow St Brand Rd End of Cul-De-Sac Glasgow St End of Cul-De-Sac Mendel Cres	Louise St Louise St East Place East Place East Place Taylor St W Ruth St E Young Cres Clarence Ave S Mendel Cres Glasgow St Mendel Cres End of Cul-De-Sac	Local Local Local Local Collector Collector Collector Collector Local Local Local	Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation Road Preservation	Microsurface Microsurface Microsurface Resurface Resurface Resurface Microsurface SUTO SUTO SUTO SUTO SUTO	0.7 0.7 2.3 1.6 0.9 2.3 0.2 1.6 0.1 0.3

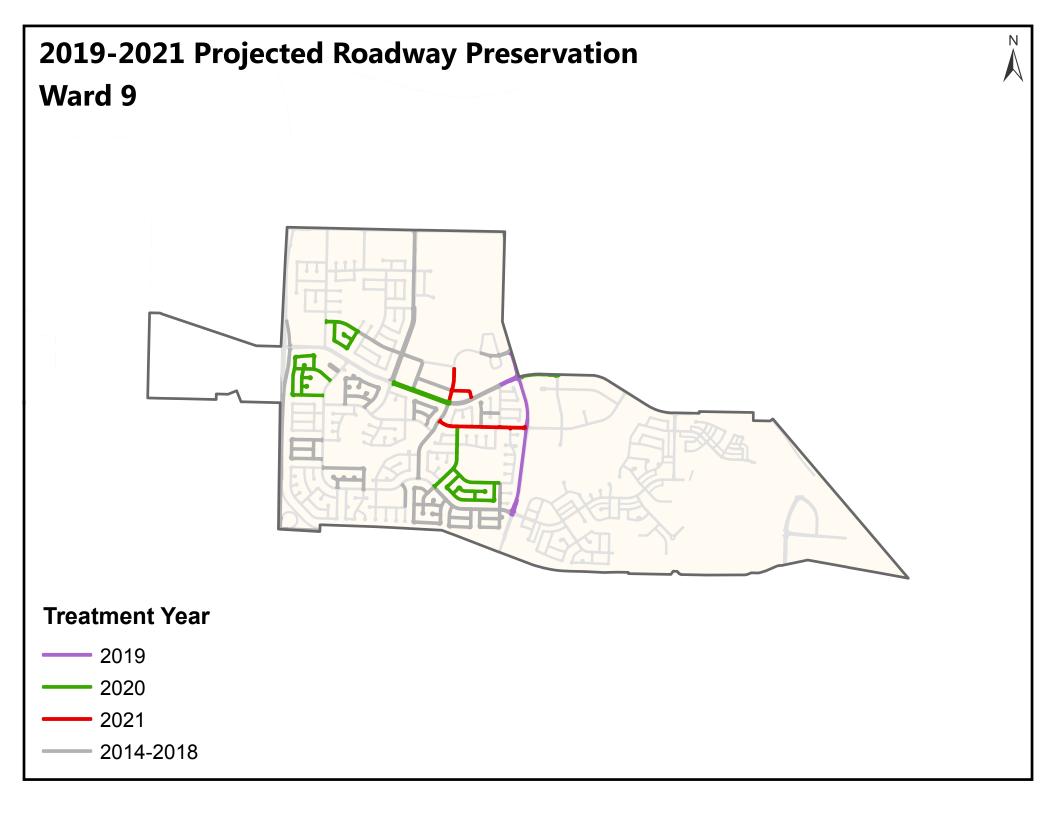


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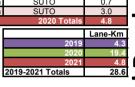


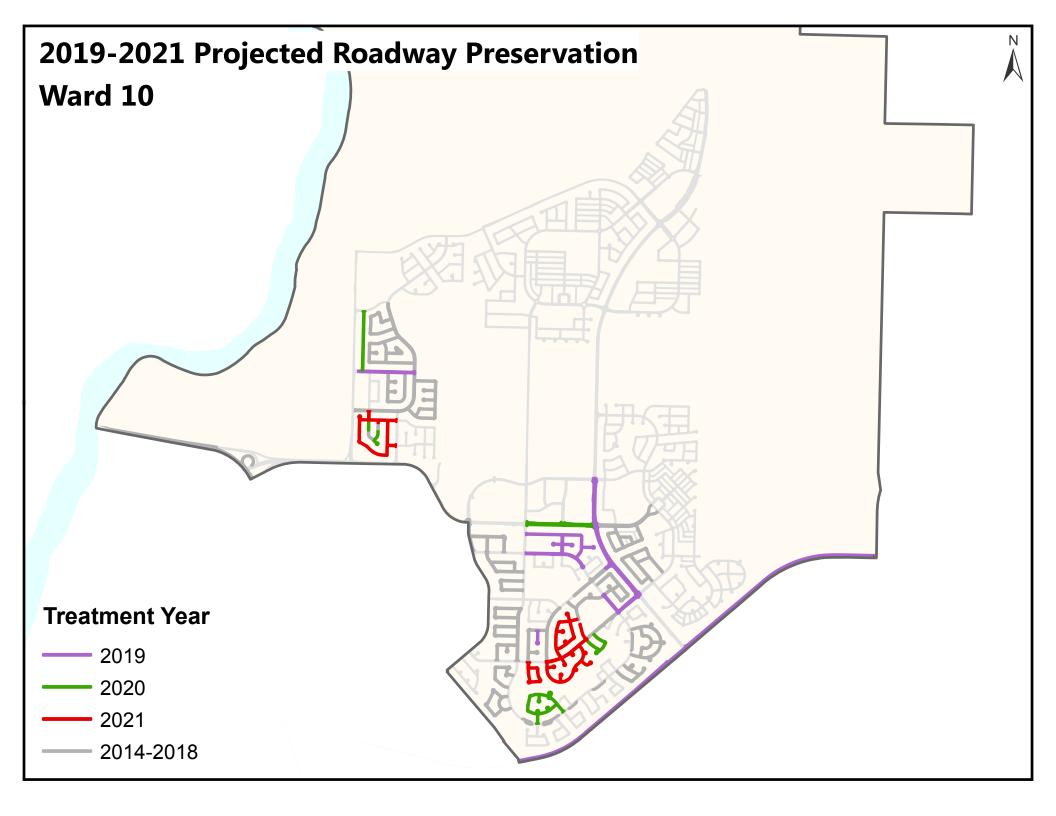
treet Name	From	То	Road Class	Project Type	Treatment	Lane-Km
Acadia Dr	14th St E	McKercher Dr SB	Collector	Road Preservation	Resurface	4.1
oychuk Dr SB	Heritage Cres / Briarwood Rd	Kingsmere Blvd / Rosewood Blvd W	Major Arterial	Road Preservation	Resurface	4.5
Champlin Cres	DeGeer St	DeGeer St	Local	Road Preservation	Microsurface	1.4
Cronkite St	Spinks Dr	Acadia Dr	Local	W&S Restoration	Reconstruction	0.8
dinburgh Pl	McKercher Dr	End	Local	Road Preservation	Microsurface	1.1
aval Cres	Boychuk Dr	Boychuk Dr	Local	Road Preservation	Microsurface	1.7
aval Cres	Laval Cres	Laval Cres	Local	Road Preservation	Microsurface	0.4
Potter Cres	Salisbury Dr	Salisbury Dr	Local	Road Preservation	Microsurface	0.9
Preston Ave S NB	Taylor St E	8th St E	Major Arterial	Road Preservation	Resurface	1.7
Preston Ave S SB	8th St E	Taylor St E	Major Arterial	Road Preservation	Microsurface	1.7
Salisbury Pl	End	Salisbury Dr	Local	Road Preservation	Microsurface	0.2
Vaterloo Cres	Boychuk Dr	Boychuk Dr	Local	Road Preservation	Microsurface	2.3
Vaterloo Cres	Waterloo Cres	Waterloo Cres	Local	Road Preservation	Microsurface	1.0
					2018 Totals	3 21.5
	2020 PR(	DJECTED ROADWAY PRESERVATION LOCA				
Street Name	From	То	Road Class	Project Type	Treatment	Lane-Km
Blackshire Cres	Briarvale Rd	Briarwood Rd	Local	Road Preservation	SUTO	1.2
Blackshire Crt	Blackshire Cres	Blackshire Cres	Local	Road Preservation	SUTO	0.1
Blackshire Pl	Blackshire Cres	End of Cul-De-Sac	Local	Road Preservation	SUTO	0.2
Boychuk Dr NB	Briarwood Rd	8th St E	Major Arterial	Road Preservation	Resurface	1.2
Braeside Bay	Braeside View	Braeside View	Local	Road Preservation	Microsurface	0.2
Braeside Crt	Braeside View	Braeside View	Local	Road Preservation	Microsurface	0.2
Braeside Pl	Braeside View	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.3
Braeside Terr	Braeside View	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.2
Braeside View	Braeburn Cres	Briargate Rd	Local	Road Preservation	Microsurface	1.4
Braeside View	Braeside View	Braeside View	Local	Road Preservation	Microsurface	0.2
Braeside View (600blk Even)	Braeside View	Braeside View	Local	Road Preservation	Microsurface	0.2
Briarvale Bay	End of Cul-De-Sac	Briarvale Rd	Local	Road Preservation	SUTO	0.3
Briarvale Crt	End of Cul-De-Sac	Briarvale Rd	Local	Road Preservation	SUTO	0.3
Briarvale Rd	Briarwood Rd	Briarwood Rd	Collector	Road Preservation	SUTO	1.6
Briarvale Terr	End of Cul-De-Sac	Briarvale Rd	Local	Road Preservation	SUTO	0.3
Briarwood Rd (400blk Even) / Briarvale Ro	Briarwood Rd	Briarvale Rd	Local	Road Preservation	SUTO	0.3
Salisbury Dr	Taylor St E	Arlington Ave	Local	Road Preservation	Resurface	3.8
aylor St E EB	Boychuk Dr	Briarvale Rd / Herold Rd	Major Arterial	Road Preservation	Microsurface	0.9
aylor St E WB	Briarvale Rd / Herold Rd	Boychuk Dr	Major Arterial	Road Preservation	Microsurface	0.9
					2020 Totals	s 13.7
	<u>2021 PR</u>	DJECTED ROADWAY PRESERVATION LOCA	TIONS			
Street Name	From	То	Road Class	Project Type	Treatment	Lane-Km
th St E EB	Preston Ave S	Arlington Ave	Major Arterial	Road Preservation	Resurface	2.7
					2020 Totals	2.7

13.7 2.7 38.0



	2019 PRC	DJECTED ROADWAY PRESERVATION LO	CATIONS			
Street Name	From	То	Road Class	Project Type	Treatment	Lane-Kn
delaide St E	Preston Ave S	McEown Ave	Collector	Road Preservation	Microsurface	1.0
IcEown Ave	Louise St	Taylor St E	Collector	Road Preservation	Microsurface	2.3
aylor St E EB	Brudell Rd	Boychuk Dr	Major Arterial	Road Preservation	Resurface	0.5
aylor St E WB	Boychuk Dr	Brudell Rd	Major Arterial	Road Preservation	Resurface	0.5
					2018 Totals	4.3
	2020 PRC	JECTED ROADWAY PRESERVATION LO	CATIONS			
treet Name	From	То	Road Class	Project Type	Treatment	Lane-Kn
vondale Rd	Acadia Dr	Penryn Cres / Richardt Pl	Collector	Road Preservation	UTO	1.1
Costigan Bay	Costigan Rd	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.2
ostigan Cres	Costigan Rd	Costigan Rd	Local	Road Preservation	Microsurface	1.3
ostigan Crt	Costigan Way	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.2
ostigan Pl	Costigan Way	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.3
ostigan Rd	Kingsmere Blvd	Kingsmere Blvd	Local	Road Preservation	Microsurface	2.7
ostigan Way	Costigan Rd	Costigan Rd	Local	Road Preservation	Microsurface	0.8
mmeline Rd	Waterbury Rd	Lavalee Rd	Local	Road Preservation	Reconstruction	1.4
enryn Cres	Avondale Rd	Avondale Rd	Local	Road Preservation	UTO	1.5
enryn Crt	End of Cul-De-Sac	Penryn Cres	Local	Road Preservation	UTO	0.3
enryn Crt	End of Cul-De-Sac	Penryn Cres	Local	Road Preservation	UTO	0.3
wan Cres	Emmeline Rd	Emmeline Rd	Local	Road Preservation	Microsurface	2.5
wan Crt	Swan Lane	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.3
wan Lane	Swan Cres	Swan Cres	Local	Road Preservation	Microsurface	1.0
aylor St E EB	McKercher Dr	Heritage Cres / Weyakwin Dr	Major Arterial	Road Preservation	Resurface	1.7
aylor St E WB	Heritage Cres / Weyakwin Dr	McKercher Dr	Major Arterial	Road Preservation	Resurface	1.7
/aterbury Rd	Kingsmere Blvd	Nemeiben Rd	Collector	Road Preservation	Microsurface	2.3
					2020 Totals	19.4
		DIECTED ROADWAY PRESERVATION LO				
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Kn
leritage Cres	Taylor St E	Heritage Cres	Collector	Road Preservation	SUTO	1.1
leritage Lane	Heritage Cres	Taylor St E	Local	Road Preservation	SUTO SUTO	0.7
lemeiben Rd	Weyakwin Dr	Boychuk Dr	Collector	Road Preservation	2020 Totals	





	2019 PRO	JECTED ROADWAY PRESERVATION LC	DCATIONS			
Street Name	From	То	Road Class	Project Type	Treatment	Lane-Km
Bornstein Terr	Bornstein Cres	End	Local	Road Preservation	Reconstruction	0.4
pp Ave	Kenderdine Rd	Perehudoff Cres	Local	Road Preservation	Microsurface	0.6
Epp Crt	End	Epp Ave	Local	Road Preservation	Microsurface	0.3
Epp Pl	Epp Ave	End	Local	Road Preservation	Reconstruction	0.3
Garvie Rd	Central Ave	Konihowski Rd	Collector	W&S Restoration	Resurface	1.4
Kenderdine Rd	Bonli Cres	115th St E	Collector	Road Preservation	Reconstruction	1.0
Kenderdine Rd	Kerr Rd	Forsyth Cres / Steiger Cres	Collector	Road Preservation	Resurface	0.8
Kenderdine Rd	Mulcaster Cres / Vincent Cres	Bonli Cres	Collector	Road Preservation	Reconstruction	1.3
Kerr Rd	Kenderdine Rd	McOrmond Dr	Collector	Road Preservation	Resurface	0.7
IcOrmond Dr NB	Kerr Rd / Stensrud Rd	Addison Rd / Nelson Rd	Major Arterial	Road Preservation	Microsurface	3.1
IcOrmond Dr SB	Nelson Rd / Addison Rd	Kerr Rd / Stensrud Rd	Major Arterial	Road Preservation	Microsurface	4.0
Perehudoff Cres	Kenderdine Rd	Kenderdine Rd	Local	Road Preservation	Microsurface	2.0
Perehudoff Crt	Perehudoff Cres	End	Local	Road Preservation	Microsurface	0.3
					2018 Totals	
	_2020 PRO	JECTED ROADWAY PRESERVATION LC	OCATIONS			
treet Name	From	То	Road Class	Project Type	Treatment	Lane-Km
ttridge Dr EB	Lowe Rd / Kenderdine Rd	McOrmond Dr	Major Arterial	Road Preservation	Microsurface	1.6
ttridge Dr WB	McOrmond Dr	Lowe Rd / Kenderdine Rd	Major Arterial	Road Preservation	Microsurface	1.6
Collins Cres	Kerr Rd	Kerr Rd	Local	Road Preservation	Microsurface	1.0
ollins Terr	Collins Cres	Collins Cres	Local	Road Preservation	Microsurface	0.3
aslam Pl	Haslam Way	End of Cul-De-Sac	Local	Road Preservation	Reconstruction	0.3
aslam Way	Haslam Cres	Haslam Cres	Local	Road Preservation	Reconstruction	0.5
ristjanson Rd	Garvie Rd	Somers Rd	Local	Road Preservation	Microsurface	1.6
/right Bay	Wright Cres	Wright Way	Local	Road Preservation	Microsurface	0.2
/right Cres	Kenderdine Rd	Wright Way	Local	Road Preservation	Microsurface	0.2
/right Cres	Wright Bay / Wright Cres	Kenderdine Rd	Local	Road Preservation	Microsurface	1.8
Vright Crt	Wright Cres	Wright Cres	Local	Road Preservation	Microsurface	0.2
Vright Pl	Wright Way	Wright Way	Local	Road Preservation	Microsurface	0.2
/right Terr	End of Cul-De-Sac	Wright Cres	Local	Road Preservation	Microsurface	0.2
Vright Way	Wright Bay / Wright Cres	Wright Cres	Local	Road Preservation	Microsurface	0.5
					2020 Totals	s 10.2
	2021 PRO	JECTED ROADWAY PRESERVATION LC	OCATIONS			
treet Name	From	Το	Road Class	Project Type	Treatment	Lane-Km
daskin Cove	Kerr Rd	Adaskin Cove	Local	Road Preservation	SUTO	1.5
hotem Bay	Chotem Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.1
Chotem Cres	Kerr Rd	Kerr Rd	Local	Road Preservation	Microsurface	1.9
Chotem Crt	Chotem Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.2
Chotem Pl	Chotem Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.2
hotem Rise	Chotem Cres Chotem Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface Microsurface	0.1
hotem Terr orsyth Cres	Kerr Rd	End of Cul-De-Sac Hurley Cres	Local Local	Road Preservation Road Preservation	Microsurface	0.3
laslam Cres	Haslam Cres	Konihowski Rd	Local	Road Preservation	Microsurface	0.4
laslam Cres	Rever Rd	Haslam Cres	Local	Road Preservation	Microsurface	3.3
laslam Crt	Haslam Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.1
laslam St	Haslam Cres	Rever Rd	Local	Road Preservation	Microsurface	0.2
lurley Cres	Kerr Rd	Forsyth Cres	Local	Road Preservation	Microsurface	1.4
lurley Crt	Hurley Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.2
Hurley Pl	Hurley Way	Hurley Way	Local	Road Preservation	Microsurface	0.2

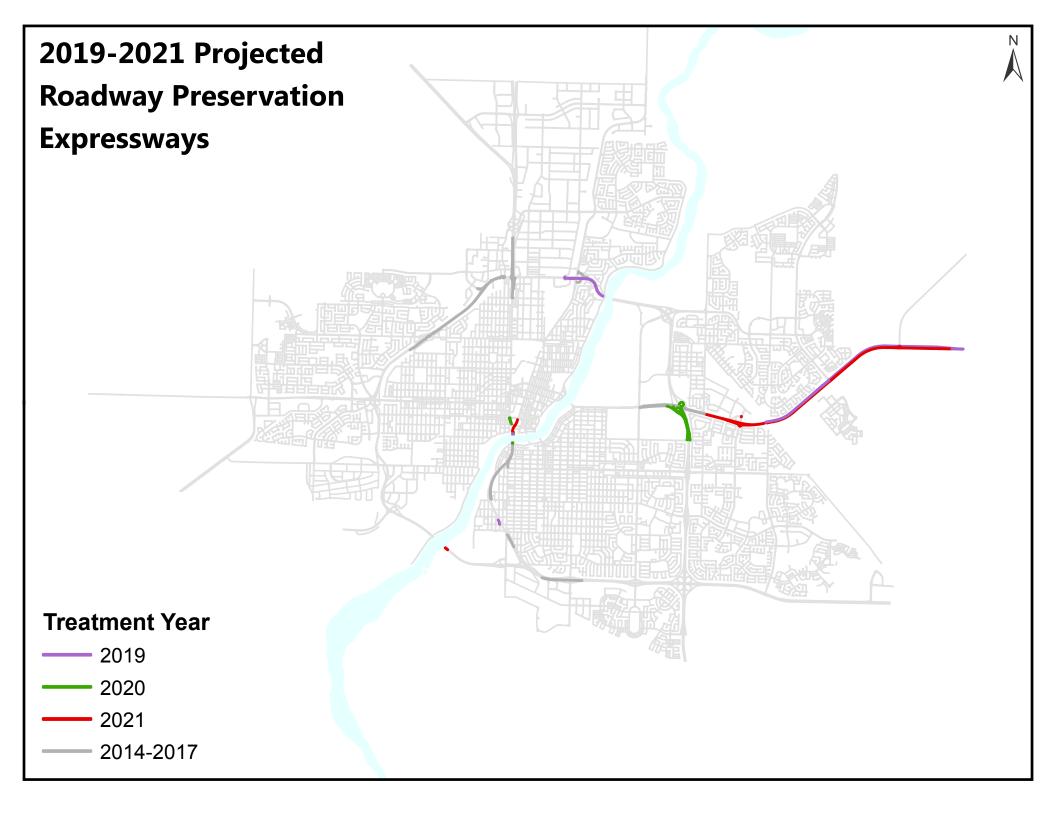
	2020 PROJECT	ED ROADWAY PRESERVATION LOCATIO	DNS			
Street Name	From	То	Road Class	Project Type	Treatment	Lane-Km
Attridge Dr EB	Lowe Rd / Kenderdine Rd	McOrmond Dr	Major Arterial	Road Preservation	Microsurface	1.6
Attridge Dr WB	McOrmond Dr	Lowe Rd / Kenderdine Rd	Major Arterial	Road Preservation	Microsurface	1.6
Collins Cres	Kerr Rd	Kerr Rd	Local	Road Preservation	Microsurface	1.0
Collins Terr	Collins Cres	Collins Cres	Local	Road Preservation	Microsurface	0.3
Haslam Pl	Haslam Way	End of Cul-De-Sac	Local	Road Preservation	Reconstruction	0.3
Haslam Way	Haslam Cres	Haslam Cres	Local	Road Preservation	Reconstruction	0.5
Kristjanson Rd	Garvie Rd	Somers Rd	Local	Road Preservation	Microsurface	1.6
Wright Bay	Wright Cres	Wright Way	Local	Road Preservation	Microsurface	0.2
Wright Cres	Kenderdine Rd	Wright Way	Local	Road Preservation	Microsurface	0.2
Wright Cres	Wright Bay / Wright Cres	Kenderdine Rd	Local	Road Preservation	Microsurface	1.8
Wright Crt	Wright Cres	Wright Cres	Local	Road Preservation	Microsurface	0.2
Wright PI	Wright Way	Wright Way	Local	Road Preservation	Microsurface	0.2
Wright Terr	End of Cul-De-Sac	Wright Cres	Local	Road Preservation	Microsurface	0.2
Wright Way	Wright Bay / Wright Cres	Wright Cres	Local	Road Preservation	Microsurface	0.5
					2020 Totals	10.2

Street Name	From	UJECTED ROADWAT PRESERVATION LO	Road Class	Project Type	Treatment	Lane-Km
		To Adaptin Opus				
Adaskin Cove	Kerr Rd	Adaskin Cove	Local	Road Preservation	SUTO	1.5
Chotem Bay	Chotem Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.1
Chotem Cres	Kerr Rd	Kerr Rd	Local	Road Preservation	Microsurface	1.9
Chotem Crt	Chotem Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.2
Chotem PI	Chotem Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.2
Chotem Rise	Chotem Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.1
Chotem Terr	Chotem Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.3
Forsyth Cres	Kerr Rd	Hurley Cres	Local	Road Preservation	Microsurface	0.4
Haslam Cres	Haslam Cres	Konihowski Rd	Local	Road Preservation	Microsurface	0.2
Haslam Cres	Rever Rd	Haslam Cres	Local	Road Preservation	Microsurface	3.3
Haslam Crt	Haslam Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.1
Haslam St	Haslam Cres	Rever Rd	Local	Road Preservation	Microsurface	0.2
Hurley Cres	Kerr Rd	Forsyth Cres	Local	Road Preservation	Microsurface	1.4
Hurley Crt	Hurley Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.2
Hurley Pl	Hurley Way	Hurley Way	Local	Road Preservation	Microsurface	0.2
Hurley Terr	Hurley Cres	End of Cul-De-Sac	Local	Road Preservation	Reconstruction	0.3
Hurley Way	Hurley Cres	Hurley Cres	Local	Road Preservation	Microsurface	0.9
Kerr Rd	Chotem Cres / Cowley Rd	Collins Cres / Forsyth Cres	Collector	Road Preservation	Resurface	1.4
McFarland PI	End of Cul-De-Sac	Kerr Rd	Local	Road Preservation	Microsurface	0.3
Woods Crt	Kerr Rd	Kerr Rd	Local	Road Preservation	Microsurface	0.2
					2020 Totals	13.7

40.0

2019-2021 Totals

1.27



	2019 PROJECTED RO	ADWAY PRESERVATION LOCATIONS			
Street Name	From	То	Project Type	Treatment	Lane-Km
1st Ave S SB	19th St E	Sid Buckwold Bridge SB	Road Preservation	Resurface	0.2
Circle Dr EB	Venture Cres / Millar Ave	Circle Dr N Bridge EB	Road Preservation	Resurface	5.6
College Dr WB / Highway 5 WB	City Limits	College Dr / CP Rail Overpass	Road Preservation	Resurface	20.
Ruth St / Idylwyld Dr S NW Ramp	Idylwyld Dr S SB	Adelaide St W	Road Preservation	Microsurface	0.
				2018 Totals	26.2
	2020 PROJECTED ROA	DWAY PRESERVATION LOCATIONS			
Street Name	From	То	Project Type	Treatment	Lane-Kn
Circle Dr / 14th St E NE Ramp	14th St E	Circle Dr NB	Road Preservation	Resurface	0.3
Circle Dr / 14th St E NW Ramp	Circle Dr SB	14th St E	Road Preservation	Resurface	0.3
Circle Dr / College Dr NE Loop	Circle Dr E NB	College Dr WB	Road Preservation	Resurface	0.6
Circle Dr / College Dr SW Loop	Circle Dr E SB	College Dr EB	Road Preservation	Resurface	0.6
Circle Dr / College Dr SW Ramp	College Dr	Circle Dr SB	Road Preservation	Resurface	1.6
Circle Dr NB	Circle Dr / 14th St E NE Ramp	Circle Dr / College Dr SE Ramp	Road Preservation	Resurface	2.9
Circle Dr SB	Circle Dr / College Dr Overpass SB	Circle Dr / 14th St E NW Ramp	Road Preservation	Resurface	2.4
dylwyld Dr S NB	100m South of 20th St	20th St E	Road Preservation	Resurface	0.3
dylwyld Dr S NB	Idylwyld Dr S / 19th St E Overpass	100m South of 20th St	Road Preservation	Resurface	0.5
dylwyld Dr S NB	Idylwyld Dr S / Saskacthewan Cres E Overp	bass Idylwyld Dr S / 19th St E Overpass NB	Road Preservation	Resurface	0.4
				2020 Totals	9.8
	2020 PROJECTED ROA	DWAY PRESERVATION LOCATIONS			
Street Name	From	То	Project Type	Treatment	Lane-Km
College Dr / Mckercher Dr SE Ramp	Mckercher Dr	College Dr EB	Road Preservation	Resurface	0.62421
College Dr / Mckercher Dr SW Ramp	College Dr EB	Mckercher Dr	Road Preservation	Resurface	0.86894
College Dr EB / Highway 5 EB	Central Ave	City Limits	Road Preservation	Resurface	24.2310
				2018 Totals	25.7
					Lane-Kn
				2019	26.
				2020	9.

2021 25.7 2019-2021 Totals 61.7

### Projected 2019-2021 Water & Sewer Preservation Plan





### Water & Sewer Assets

Our Water and Sewer asset management strategy is to monitor, maintain, and preserve water and sewer linear systems using effective decision making to maximize benefits, reduce risk and provide satisfactory levels of service to our community in a sustainable manner throughout the assets lifecycle. Water and Sewer linear systems assets include water mains, sewer mains, and service line.

Water and Sewer preservation programs are selected annually based on the asset condition and approved levels of service and funding plans.

The City has the following annual programs for preservation of water and sewer assets;

- Water Main Capacity Program This program focuses on areas where water main capacity needs to be improved and there is a high density of lead service lines. A long-term strategy is being developed for this program and the three year outlook is included in this document.
- Water Main Renewal Program This program targets water mains that have had high amounts of water main breaks. Locations are prioritized on the frequency of water main breaks in recent years and the consequence to services and locations if a water main break occurred. Since this program relies on water main break rates that are constantly changing, locations are prioritized and selected each year. Therefore, only a one year outlook is provided in this document.
- Sewer Main Lining This program targets sewer mains that are in poor condition and high consequence to services and locations if the main were to fail. A long-term rehabilitation strategy has been developed. The three year outlook is included in this document.
- Lead Service Line Replacements This program targets full service line replacements, from water main to water meter, on lead service lines. Lead lines are replaced on:
  - 1. Any water main program
  - 2. Emergency basis
  - 3. Adjacent to roadway paving programs

At current funding levels the remaining lead line inventory in the City will be completely replaced by 2027. In conjunction with the long-term strategy that is being developed for water main Capacity Program a strategy for all remaining lead line replacements is being developed so that residents will have information on when they can expect their service lines to be replaced. It is anticipated this plan will be available by the end of 2019.

### Assumptions

The following assumptions were used to produce this water and sewer preservation plan document:

- Target base funding (W&S Infrastructre Reserve) is approved and maintained for the 2020 2022 utility rate cycle.
- Utility rate funding is based on assumed water usage levels and thereby water revenues. If water usage levels drop significantly, funding levels may need to be adjusted.
- The unit rate cost estimates are based on but not limited to: contractor unit rates, project management, administration, traffic control, testing, and a contingency.
- The attached document includes proposed treatments. Actual locations and quantities treated may vary prior to construction.

### 2019-2021 Projected Budgets

Program	2018 Budget	2019 Budget	2020* Budget	2021* Budget
	(\$M)	(\$M)	(\$M)	(\$M)
Water Preservation	\$5.85	\$6.23	\$6.64	\$7.07
Water Capacity	\$5.67	\$5.82	\$5.96	\$7.64
LSL Replacements	\$4.77	\$3.71	\$4.92	\$3.90
Sewer Preservation	\$3.29	\$3.38	\$3.47	\$3.07
Sewer Service Lines	\$1.25	\$1.26	\$1.29	\$1.33
Totals	\$20.83	\$20.40	\$20.61	\$20.61

The following table outlines the budgets for 2017 and 2018 and projected budgets for 2019 and 2020.

\*Projected

### **2019 Planned Treatments, Unit Rates and Quantities**

Treatment	Unit Rate*	Estimated Treatment Quantity
Open Trench Water Main Replacement	\$1,700-2,000 /lin.m.	4,947m
Sanitary Lining	\$200-300 /lin.m.	15,978 m
Storm Lining	\$200-300 /lin.m.	2,757 m
Service Line Replacements	\$5,000-6000 each	500

\*Unit Rate refers to the unit cost of work incurred by the City

#### Water & Sewer Treatment Descriptions

**Open Trench Water Main Replacement** – this method is used in areas where water main capacity needs to be improved or there are numerous lead service lines connecting to the main. To increase flow capacity, mains need to be upsized, typically from 150mm diameter to 200mm diameter. If numerous lead services need to be replaced at the same time as the water main, the most cost effective approach is to do an open trench excavation.

**Water Main Lining** – this method is used on water mains where capacity is not a concern, there are minimal lead services, and the road surface is not scheduled for a preservation treatment. Water main lining requires small excavations at each end of the work limits, as well as at hydrants and valves. From these excavations a liner is pulled inside the existing water main. The liner hardens and seals the pipe against future leaks and water main breaks. The finished liner has the strength and characteristics as a new plastic PVC pipe. Water main lining has traditionally been about 66% of the cost of open trench water main replacement.

**Sanitary and Storm Sewer Main Lining** – this is the same method as water main except that no excavation is required. Sanitary and storm mains have access points (manholes) approximately every 150m to 200m that allow for installation. This method of rehabilitation for sanitary and storm mains has been used in Saskatoon since the 1990s and has been so effective that open trench replacement of sewer mains has been phased out except for in extreme circumstance where a liner cannot be installed.

**Water and Sewer Service Line Replacements** – lead water service lines and tar fiber sewer service lines are replaced:

- In conjunction with open trench water main replacement;
- Prior to certain roadway preservation treatments;
- On an emergency basis.

Service lines are replaced using a trenchless method called "pipe-bursting". This involves excavations at the main line in the street, at the property line, and at the building (either outside the building at the foundation or a small hole in the basement). The old service lines are broken to expand a tunnel from excavation to excavation and new service lines are inserted through the expanded tunnel. Whenever a lead service line is worked on (planned or emergency), replacement is required from the main line to the water meter. Tar fiber sewer lines are replaced from the main line to property line and the homeowner has the option whether or not to replace their portion. The City is responsible for costs in the public right of way and the property owner is responsible for costs and the property. This cost split is approximated by the City paying 60% of contract costs and the property owner paying 40%. The City has cost deferral programs that the property owner can use to add their costs to their annual property taxes.

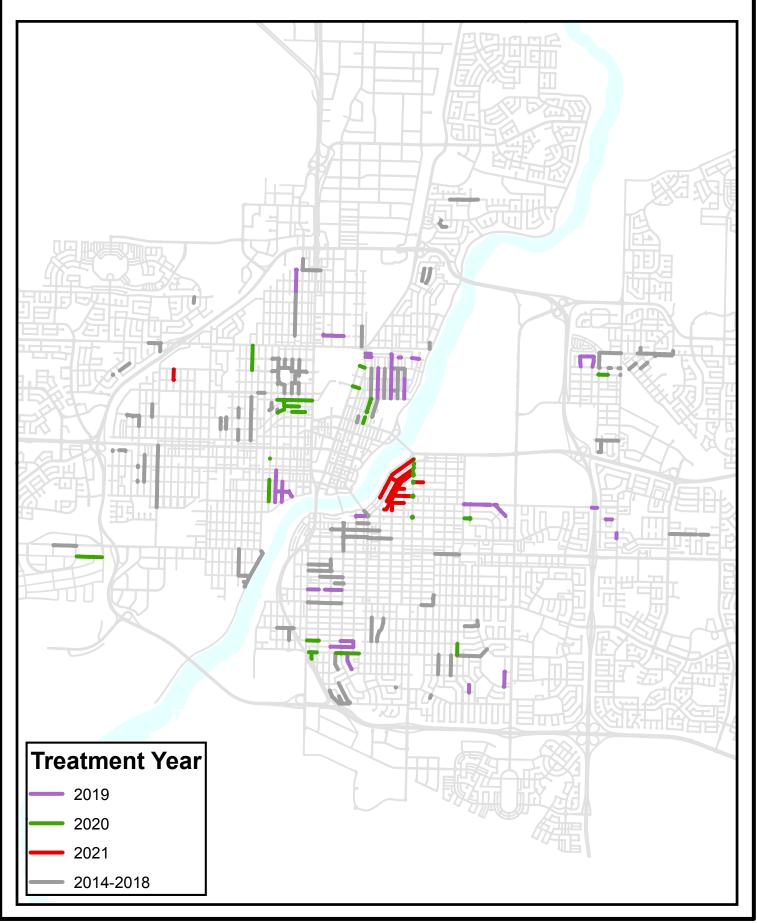
## 2018-2020 Projected Water & Sewer Preservation Project Locations

2019-2021 Water Main Restoration

### 2019-2021 Sanitary Main Lining

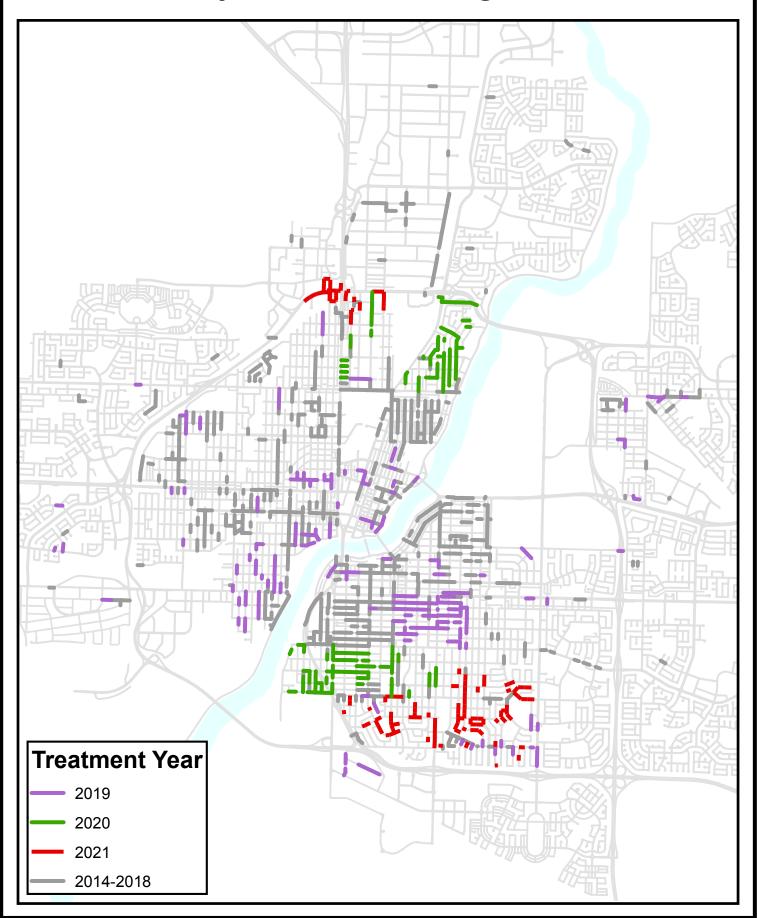


## 2019-2021 Water & Sewer Preservation Water Main Restoration Locations



Street Name	2019 PROJECTED WATER MAIN RES	То	Main Length (m)	Lead (
2th St E	Eastlake Ave	Broadway Ave	137	Lead (
4th St E	Circle Dr / 14th St E NW Ramp	Circle Dr / 14th St E NE Ramp	75	4
4th St E	Cumberland Ave S	Bate Cres	432	0
8th St W	Ave D S	Ave F S	213	6
nd St E	Lorne Ave	Victoria Ave	710	2
4th St E	Alberta Ave	Quebec Ave	318	1
th Ave N	Queen St	Duke St	767	37
th Ave N	Queen St	Lauriston St	708	55
h Ave N	Queen St	Princess St	313	19
cadia Dr	Harrington St	Leddy Cres	83	0
delaide St	Victoria Ave	Eastlake	202	0
			346	-
sh St	Melrose Ave	Eastlake		0
ve D N	38th St	40th St	332	1
ve D S	Spadina Cres W	18th St W	83	2
/e E S	Spadina Cres W	19th St W	316	34
ve F S	17th St W	20th St W	521	42
ate Cres	14th St E	414 Bate Cres	288	1
	Rita Cres	113th St	151	0
yans Ave				
onkite St	Britnell Cres (East Leg)	Britnell Cres (West Leg)	100	0
uchess St	3rd Ave N	5th Ave N	94	2
ke St	7th Ave N	9th Ave N	213	1
stlake	Ash St	Adelaide	125	0
ine Ave	Hanson St	2703 Irvine Ave	120	0
ng Cr	Duke St	Duchess St	200	6
ng St	7th Ave N	9th Ave	160	5
uriston St	3rd Ave N	314 3rd Ave N	88	1
orman Cres	34 Norman Cres	Ruth St E	266	0
ta Cres (East Leg)	Bryans Ave	113th St	398	0
oodward Ave	Guppy St	Jarvis St	240	0
		2018 Totals	7999	219
			1333	219
	2020 PROJECTED WATER MAIN RES			
reet Name	From	То	Main Length (m)	Lead (
2th St W	Egbert Ave	Violet Ave	153	0
Sth St W	Ave B N	Ave D N	222	28
	Ave C N	Ave E N		
th St W			237	25
Bth St W	ldylwyld Dr N	Ave F N	547	51
h Ave N	25th St E	Queen St	319	17
ve E	28th St W	27th St W	99	4
ve G S	Spadina Cres W	20th St W	353	68
ve J N	31st St W	33rd St W	390	2
edford Rd	Ave F N	Ave E N	102	4
aen St	Lancaster Blvd	Dundonald Ave	409	5
arence Ave N	12th St	College	296	14
umberland Ave S	Ruth St E	Adelaide St E	177	0
arrison Cres	Cumberland Ave S	Leslie	102	0
ng St	1st Ave	2nd Ave	218	1
uth St E	Lorne Ave	Vernon Ave	127	1
uth St E	Underwood Ave	Royal Ave	366	0
				-
ernon Ave	Ruth St / Idylwyld Dr S SE Ramp	Ruth St E	103	0
		2019 Totals	4220	220
	2021 PROJECTED WATER MAIN RES	STORATION		
reet Name	From	То	Main Length (m)	Lead (
th St E	Alley West of Temperance St	Clarence Ave	269	18
th St E	Temperance St	Clarence Ave	286	5
th St E	Alley West of Temperance St	Temperance St	178	0
rd St	Clarence Ave	McKinnon Ave	149	9
ey betweeen Temperance St & University Dr	14th St E	Clarence Ave	618	38
ey betweeen University Dr & Saskatchewan Cres	14th St E	Clarence Ave	830	29
				14
e U N	30th St	31st St W	165	
lony St	Temperance St	Albert Ave	110	6
ke St	1st Ave	3rd Ave	6	0
nsowne Ave	13th St E	14th St E	121	5
emperance St	13th St E	Clarence Ave	753	37
		2020 Totals	3485	161
		2020 Totals		
			Main Length (m)	Lead (
			mann zongen (m)	
		2018	7999	219
			7999	
		2019	7999 4220	220
			7999	

# 2019-2021 Water & Sewer Preservation Sanitary Sewer Main Lining Locations



2019 SEWER MAIN LINING		
Neighbourhood		Main Length (m)
Adelaide/Churchill		247
Avalon		254
Brevoort Park		84
Buena Vista		93
		1167
Gawer him City Park		282
CN Industrial		635
		76
College Park Downtown		1300
Fairhaven		181
Forest Grove		475
Grosvenor Park		220
Haultain		6072
Holiday Park		1066
Holliston		121
Hudson Bay Park		373
Kelsey - Woodlawn		324
King George		1790
Mayfair		350
Meadowgreen		263
Montgomery Place		145
Mount Royal		563
Nutana		697
Nutana Park		983
Parkridge		100
Pleasant Hill		223
Riversdale		1074
Sutherland		554
Varsity View		925
Westview		82
	2019 Total	20718
2020 SEWER MAIN LINING		
Neighbourhood		Main Length (m)
Buena Vista		<u>114</u> 3811
Exhibition		
Haultain		122
Kelsey - Woodlawn		1029
North Industrial		407
North Park		3554
Queen Elizabeth		2389
Richmond Heights		686
River Heights		112
	2020 Total	12225
2021 SEWER MAIN LINING		
Neighbourhood		Main Length (m)
Adelaide/Churchill		2882
Airport Business Area		1835
Avalon		2961
Holliston		166
Kelsey - Woodlawn North le dwint		150
North Industrial		1083
Nutana Park	2020 Total	1735 10810
	2020 I otal	
		Main Length (m)
	2019	20718
	2020	12225
	2021	10810
	2019-2021 Totals	43753

## Projected 2019-2021 Bridges & Structures Preservation Plan





#### **Bridges & Structures Assets**

The planned upcoming major rehabilitation projects are part of the Major Rehabilitation program and are selected on preservation strategies focused on reducing the cost of owning and maintaining the structures. The projects have been selected based on the condition assessment from the bridges inspection and testing program.

### Assumptions

The following assumptions were used to produce this bridges and structures preservation plan document:

- Base funding is maintained for 2020 and 2021.
- The design work required for the rehabilitations is completed prior to construction.
- During the design and inspection process, increases to the planned scope of work are not discovered (example: additional strengthening, more intrusive repairs, or changes to functional design)
- The unit rate cost estimates are based on but not limited to: contractor unit rates, project management, administration, traffic control, miscellaneous prep work, testing, and contingencies.

### 2019-2021 Projected Budgets

Program	2018 Budget (\$M)	2019 Budget (\$M)	2020 Budget (\$M)	2021 Budget (\$M)
Bridge Major Repair Reserve	\$3.184	\$3.184	\$3.184	\$3.184
Totals	\$3.184	\$3.184	\$3.184	\$3.184

### 2019-2021 Bridge Rehabilitation Project Descriptions

Based on the current and planned reserve contribution, The Bridge & Structure programs three year plan is anticipated to be fully funded. The following projects currently have the preliminary design work underway and construction is anticipated in the following years:

#### 2019 & 2020: Sid Buckwold Bridge & Idywyld Dr over 19th Street Ramps

The Sid Buckwold Bridge is a post-tensioned concrete girder bridge originally constructed in 1965. Rehabilitation of the structure is occurring from 2019 to 2020, based on findings and recommendations from the City inspection and deck testing program.

The Idylwyld Drive over 19<sup>th</sup> Street ramps were also recommended for rehabilitation and due to the proximity in timing, the City included the scope of completing the ramp rehabilitation with the Sid Buckwold Bridge rehabilitation.

#### **2021:** <u>Circle Drive Southbound and Northbound over 8<sup>th</sup> Street Overpasses</u>

The Circle Drive Southbound and Northbound Structures over 8<sup>th</sup> Street were originally constructed in 1999. Proactive rehabilitation is recommended in 2021, based on findings from the deck testing program.

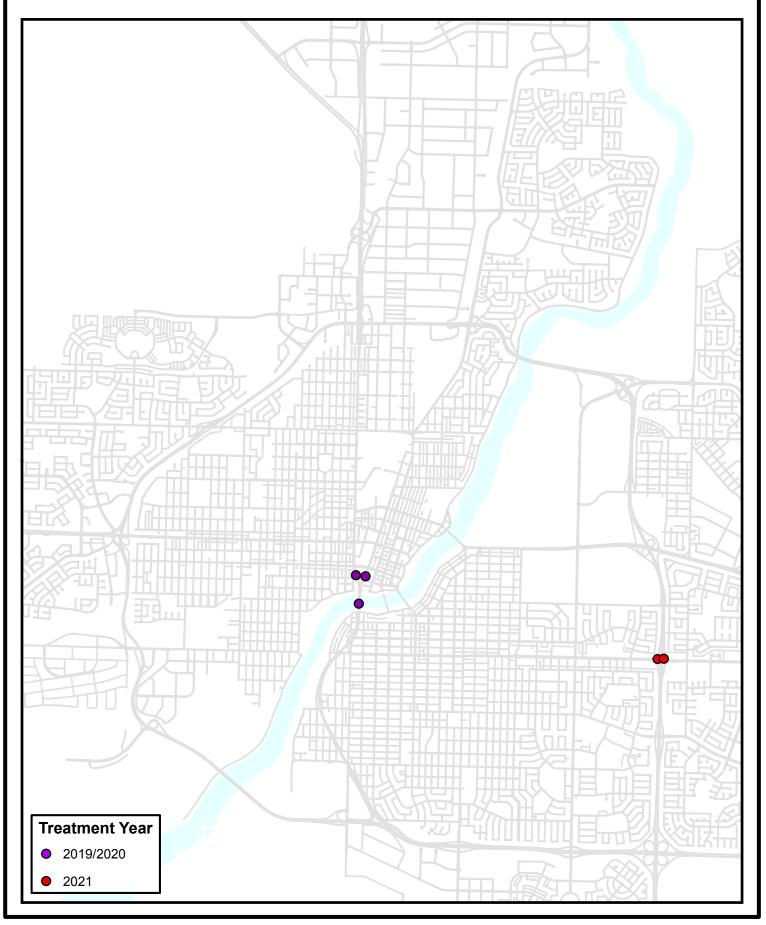
## 2018-2020 Bridge Rehabilitation Project Locations

2019 - 2020: Sid Buckwold Bridge & Idywyld Dr Over 19th Street Ramps

2021: Circle Dr Over 8th Street Overpasses



# 2019-2021 Bridges & Structures Preservation Bridge Rehabilitaion Locations



1	9	12	02	0	в	RI	D	G	E	s	Α	Ν	D	S	Т	R	U	С	П	U	R	Е	ŝ

Structure Name	Treatment
Sid Buckwold Bridge	Rehabilitation
Idylwyld Drive NB & SB over 19th Street W	Rehabilitation
Idylwyld Drive NB over 19th Street W to 1st Avenue Ramp	Rehabilitation
2021 BRIDGES AND STRUCTURES	
2021 BRIDGES AND STRUCTURES Structure Name	Treatment
Structure Name Circle Drive NB over 8th Street E	Treatment Rehabilitation
Structure Name Circle Drive NB over 8th Street E	Rehabilitation