

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>Bridge Maintenance, Renewal and Replacement</b>
<b>Department</b>	Development Services
<b>Subcategory</b>	71 Bridges
<b>Project Number</b>	71-P001
<b>Project Location</b>	Various
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	56

**Project Details**

**Project Description**

Projects associated with the capital maintenance, rehabilitation and/or replacement of existing road and pedestrian structures throughout the City. A biennial inspection is conducted by a consultant and work is scheduled based on their recommendations.

**Project Budget Summary**

<b>Expenditures</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
71-0025 Structure 6-3006 Humewood	105,000	0	0
71-0044 Structure 000216 Darcy St	179,000	0	0
71-0047 Structure 3-2084 Glen Stewart	145,000	0	0
71-0048 Structure 000021 Conlin Rd E	102,000	0	0
71-0049 2017 Bridge and Culvert	0	14,885,000	0
<b>Total Expenditures</b>	<b>531,000</b>	<b>14,885,000</b>	<b>0</b>

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Arterial and Collector Roads	65,000	0	0
Growth Related (Non-DC)	3,000	0	0
Transportation Roads 2014	99,000	0	0
Federal Gas Tax Reserve	364,000	11,908,000	0
Contribution to Capital	0	2,977,000	0
<b>Total Financing Sources</b>	<b>531,000</b>	<b>14,885,000</b>	<b>0</b>

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>Structure 6-3006 Humewood Park Pedestrian Footbridge</b>
<b>Department</b>	Development Services
<b>Subcategory</b>	71 Bridges
<b>Project Number</b>	71-0025
<b>Project Location</b>	0.6km South of South Limit of Humewood A
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	55

**Project Details**

**Project Description**

Scope of the project would include but is not limited to replacing the structure. Structure Type – Pedestrian Bridge, Year built – 1960, Design Life – 75 years, Bridge Condition Index (BCI) – 43.20/100, Risk Assessment – 11.84/25.

This bridge is located in Humewood Park, just off of Humewood Ave. It provides pedestrians access over Harmony Creek Branch 1. If this bridge is not replaced in the advised time, the City will experience a higher risk of a critical service interruption within the park if the bridge were to fail unexpectedly. Legal, reputation and image, and financial consequences of a failure are also a possibility.

This is a Class D Estimate based on amounts provided by the consultant in the 2013 Biennial Structure inspections.

**Justification**

The City is required by Ontario Regulation 104/97 to keep all bridges safe and in good repair. Inspections are performed to determine the integrity, safety and condition of bridges in accordance with the regulation and with the Ontario Structure Inspection Manual.

Appraisals were conducted by Chisholm, Fleming & Associates in 2015, who identified structure 6-3006 as deficient. The structure was noted as having extensive rot on the exterior girders at the support.

**Comments**

Due to a limitation of structural engineering expertise within the City and lack of capacity within Engineering Services to provide contract administration and inspection services for this project the cost of this project has been increased to allow for the project to have design, contract administration and inspection delivered externally.

**Project Budget Summary**

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Arterial and Collector Roads	16,000	0	0
Federal Gas Tax Reserve	89,000	0	0
<b>Total Financing Sources</b>	<b>105,000</b>	<b>0</b>	<b>0</b>

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>Structure 000216 Darcy St Culvert Rehabilitation</b>
<b>Department</b>	Development Services
<b>Subcategory</b>	71 Bridges
<b>Project Number</b>	71-0044
<b>Project Location</b>	0.04km E of Oshawa Blvd N
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	56

**Project Details**

**Project Description**

Scope of the project includes but is not limited to: relining of the culvert. Structure Type – Arch Culvert, Year built – 1964, Design Life – 75 years, Bridge Condition Index (BCI) – 57.95/100, Risk Assessment – 14.80/25.

This culvert is on Darcy St, 0.04km east of Oshawa Blvd N. Rehabilitating the culvert within the advised time frame will prevent an unplanned culvert failure from occurring and potentially closing the road for an even longer period of time.

This is a Class D Estimate based on amounts provided by the consultant in the 2015 Biennial Structure inspections.

**Justification**

The City is required by Ontario Regulation 104/97 to keep all bridges safe and in good repair. Inspections are performed to determine the integrity, safety and condition of bridges in accordance with the regulation and with the Ontario Structure Inspection Manual.

Appraisals were conducted by Chisholm, Fleming & Associates in 2015, who identified structure 000216 as deficient. The structure was noted as having cracks at the bolt holes on east side of culvert. Additionally severe corrosion is evident at the culvert invert. Relining of the culvert allows for an extension of the service life by approximately 50 years at approximately 66% savings to a full replacement.

**Comments**

This project is required to supplement funding for project 1863-2-0 approved in 2011 for \$300K. Due to a limitation of structural engineering expertise within the City and lack of capacity within Engineering Services to provide contract administration and inspection services for this project the cost of this project has been increased to allow for the project to have design, contract administration and inspection delivered externally.

**Project Budget Summary**

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Arterial and Collector Roads	27,000	0	0
Federal Gas Tax Reserve	152,000	0	0
<b>Total Financing Sources</b>	<b>179,000</b>	<b>0</b>	<b>0</b>

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>Structure 3-2084 Glen Stewart Bridge Replacement</b>
<b>Department</b>	Development Services
<b>Subcategory</b>	71 Bridges
<b>Project Number</b>	71-0047
<b>Project Location</b>	0.05km west of Durham Street
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	55

**Project Details**

**Project Description**

Appraisals were conducted by Chisholm, Fleming and Associates in 2015 who identified structure 3-2084 as deficient. The structure was noted as needing timber deck replaced and has a remaining life of 5 years. The City has chosen to expedite the replacement to line up with other work being done at Glen Stewart Park. The scope of the project would include but is not limited to: structure replacement. Structure Type – Pedestrian Bridge, Year built - 1970, Bridge Condition Index (BCI) – 73.3, Risk Assessment – 7.84/25.

This is a Class D estimate based on amounts provided by the consultant in the 2015 Biennial Structure Inspection.

**Justification**

The City is required by Ontario Regulation 104/97 to keep all bridges safe and in good repair. Inspections are performed to determine the integrity, safety and condition of bridges in accordance with the regulation and with the Ontario Structure Inspection Manual.

This bridge is located in Glen Stewart Park. It provides pedestrians, using the path, access across the creek. This park is undergoing significant redevelopment and the bridge will be replaced as part of the redevelopment. With an increase in the number of park users, if this bridge were not replaced, the City will experience a higher risk if the bridge were to fail unexpectedly. Legal, reputation and image, and financial consequences of a failure are also a possibility.

**Comments**

Due to a limitation of structural engineering expertise within the City and lack of capacity within Engineering Services to provide contract administration and inspection services for this project the cost of this project has been increased to allow for the project to have design, contract administration and inspection delivered externally.

**Project Budget Summary**

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Arterial and Collector Roads	22,000	0	0
Federal Gas Tax Reserve	123,000	0	0
<b>Total Financing Sources</b>	<b>145,000</b>	<b>0</b>	<b>0</b>

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>Structure 000021 Conlin Rd E CA &amp; Inspection</b>
<b>Department</b>	Development Services
<b>Subcategory</b>	71 Bridges
<b>Project Number</b>	71-0048
<b>Project Location</b>	Conlin Rd E at Oshawa Creek Branch 2
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	56

**Project Details**

**Project Description**

Due to a limitation of structural engineering expertise within the City and lack of capacity within Engineering Services to provide contract administration and inspection services for the delivery of Structure 000021, additional external resources are required in order to deliver Project 73-0029 which was approved in the 2015 capital budget. The cost of this project represents the cost of a full-time consultant of the project to provide contract administration and inspection services.

**Justification**

Recognizing a need to improve standards on Conlin Rd, the City, under the Environmental Assessment Act, had a Municipal Class Environmental Assessment (EA) conducted on the entire length of Conlin Rd. The environmental assessment completed in 2014 states that structure 000021 over Oshawa Creek Branch 2 on Conlin Rd E should be widened to 4/5 lanes by 2016. This project will support the delivery of project 73-0029 which was approved in the 2016 capital budget.

**Comments**

This project is to support the delivery of project 73-0029 which was approved in the 2016 capital budget.

**Project Budget Summary**

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Growth Related (Non-DC)	3,000	0	0
Transportation Roads 2014	99,000	0	0
<b>Total Financing Sources</b>	<b>102,000</b>	<b>0</b>	<b>0</b>

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>Stage 2 Construction</b>
<b>Department</b>	Development Services
<b>Subcategory</b>	73 Development Related Roads
<b>Project Number</b>	73-P002
<b>Project Location</b>	Various
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	57

**Project Details**

**Project Description**

This phase of the project is for the cost of completing Stage 2 construction of the road. Stage 2 construction consists of surface course asphalt and any other repairs required as part of the warranty period.

**Project Budget Summary**

<b>Expenditures</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
73-0020 Conlin Rd W	520,000	0	0
<b>Total Expenditures</b>	<b>520,000</b>	<b>0</b>	<b>0</b>

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Growth Related (Non-DC)	78,000	0	0
Transportation Roads 2014	442,000	0	0
<b>Total Financing Sources</b>	<b>520,000</b>	<b>0</b>	<b>0</b>

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>Conlin Rd W</b>
<b>Department</b>	Development Services
<b>Subcategory</b>	73 Development Related Roads
<b>Project Number</b>	73-0020
<b>Project Location</b>	Stevenson Rd N To Founders Dr
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	57

**Project Details**

**Project Description**

This phase of the project is for the cost of completing stage 2 construction of the road. Stage 2 construction consists of surface course pavement, final curb and gutter, and any other adjustments due to settling.

Conlin Rd is an arterial road that provides for east/west traffic across Oshawa. Completion of this project will not only improve what is currently a poor driving surface, but it will improve the recognized capacity issues of the road. Road improvements to current design standards will help facilitate traffic to and from the University and College, residences and commercial properties. The limits of this project will connect to road improvements that were completed at the intersection with Thornton Rd N (round-a-bout) and along the western extents of Conlin Rd W. The City is required to respond to the needs addressed in the EA within 10 years of the EA being completed or will have to incur the cost of having to perform another Environmental Assessment. Responding to the recognized needs of the area in a timely fashion in order to avoid further incurred costs is financially responsible and a positive reputation and image for the City.

**Justification**

Recognizing a need to improve standards on Conlin Rd, the City, under the Environmental Assessment Act, had a Municipal Class Environmental Assessment (EA) conducted on the entire length of Conlin Rd. It was confirmed that the study was categorized as a Schedule C, which means reconstruction or widening to change the purpose or capacity of the road is required.

**Project Budget Summary**

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Growth Related (Non-DC)	78,000	0	0
Transportation Roads 2014	442,000	0	0
<b>Total Financing Sources</b>	<b>520,000</b>	<b>0</b>	<b>0</b>

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>Property Acquisition/Utility Relocation</b>
<b>Department</b>	Development Services
<b>Subcategory</b>	73 Development Related Roads
<b>Project Number</b>	73-P003
<b>Project Location</b>	Various
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	57

**Project Details**

**Project Description**

Growth related projects often require utility relocation and/or property acquisition in order to facilitate the realignment or improvement of infrastructure.

**Project Budget Summary**

<b>Expenditures</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
73-0017 Conlin Rd W	167,000	0	0
73-0177 Ritson Rd N	0	1,700,000	0
<b>Total Expenditures</b>	<b>167,000</b>	<b>1,700,000</b>	<b>0</b>

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Growth Related (Non-DC)	5,000	94,000	0
Transportation Roads 2014	162,000	1,606,000	0
<b>Total Financing Sources</b>	<b>167,000</b>	<b>1,700,000</b>	<b>0</b>



**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>Conlin Rd W</b>
<b>Department</b>	Development Services
<b>Subcategory</b>	73 Development Related Roads
<b>Project Number</b>	73-0017
<b>Project Location</b>	Thornton Rd N To Stevenson Rd N
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	57

**Project Details**

**Project Description**

This phase of the project is for the cost of utility relocation and property acquisition. Conlin Rd is an arterial road that provides for east/west traffic across Oshawa. Completion of this project will not only improve what is currently a poor driving surface, but it will improve the recognized capacity issues of the road. Road improvements to current design standards will help facilitate traffic to and from the University and College, residences and commercial properties. The limits of this project will connect to road improvements that were completed at the intersection with Thornton Rd N (round-a-bout) and along the western extents of Conlin Rd W. The City is required to respond to the needs addressed in the EA within 10 years of the EA being completed or will have to incur the cost of having to perform another Environmental Assessment. Responding to the recognized needs of the area in a timely fashion in order to avoid further incurred costs is financially responsible and a positive reputation and image for the City.

**Justification**

Recognizing a need to improve standards on Conlin Rd, the City, under the Environmental Assessment Act, had a Municipal Class Environmental Assessment (EA) conducted on the entire length of Conlin Rd. It was confirmed that the study was categorized as a Schedule C, which means reconstruction or widening to change the purpose or capacity of the road is required.

**Project Budget Summary**

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Growth Related (Non-DC)	5,000	0	0
Transportation Roads 2014	162,000	0	0
<b>Total Financing Sources</b>	<b>167,000</b>	<b>0</b>	<b>0</b>

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>2017 Road Reconstructions</b>
<b>Department</b>	Development Services
<b>Subcategory</b>	74 Roads
<b>Project Number</b>	74-P001
<b>Project Location</b>	Various
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	0

**Project Details**

**Project Description**

The projects will reconstruct Verdun Rd and Oshawa Blvd S, from Gliddon Avenue to Eulalie Avenue and Grenfell St from Elmgrove Ave to Pine Ave. The Grenfell St and Oshawa Blvd S are un-urbanized and will require greater amounts of grading, boulevard and driveway work. The projects include new curb & gutter for the entire stretch. Sidewalks will be reconstructed as part of the reconstructions. These projects may also include sanitary and watermain installation at the request by the Region of Durham.

**Justification**

As outlined in Report DS-07-156 the City established a level of service of 80% of the road network being in good or excellent condition. Reconstruction is needed to address substantial deficiencies in the road. This project aligns with the following goals and themes within the Oshawa Strategic Plan: Economic Prosperity & Financial Stewardship: Safe and Reliable Infrastructure  
Social Equity: An Active, Healthy, and Safe Community

**Project Budget Summary**

<b>Expenditures</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
74-0023 Grenfell Street	1,171,000	0	0
74-0075 Verdun Rd	858,000	0	0
74-0105 Oshawa Blvd S	710,000	0	0
<b>Total Expenditures</b>	<b>2,739,000</b>	<b>0</b>	<b>0</b>

  

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Federal Gas Tax Reserve	2,191,000	0	0
Contribution to Capital	548,000	0	0
<b>Total Financing Sources</b>	<b>2,739,000</b>	<b>0</b>	<b>0</b>

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>Grenfell Street</b>
<b>Department</b>	Development Services
<b>Subcategory</b>	74 Roads
<b>Project Number</b>	74-0023
<b>Project Location</b>	Elmgrove Ave to Pine Ave
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	33

**Project Details**

**Project Description**

The scope of the proposed project is to reconstruct Grenfell Street, from Gliddon Avenue to Eulalie Avenue. The road is an un-urbanized road and will require substantial grading, boulevard and driveway work. The project is to include new curb & gutter for the entire stretch. Sidewalk will be reconstructed as part of this work. Regional services may be upgraded in conjunction with the work.

**Justification**

As outlined in Report DS-07-156 the City established a level of service of 80% of the road network being in good or excellent condition. Reconstruction is needed to address substantial deficiencies in the road. This project aligns with the following goals and themes within the Oshawa Strategic Plan:

Economic Prosperity & Financial Stewardship: Safe and Reliable Infrastructure

Social Equity: An Active, Healthy, and Safe Community

**Comments**

The cost estimate for this project is a Class D estimate, which was prepared in 2015.

**Project Budget Summary**

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Federal Gas Tax Reserve	937,000	0	0
Contribution to Capital	234,000	0	0
<b>Total Financing Sources</b>	<b>1,171,000</b>	<b>0</b>	<b>0</b>

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>Verdun Rd</b>
<b>Department</b>	Development Services
<b>Subcategory</b>	74 Roads
<b>Project Number</b>	74-0075
<b>Project Location</b>	Eulalie Ave to Gliddon Ave
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	33

**Project Details**

**Project Description**

The scope of the proposed project is to reconstruct Verdun Road, from Gliddon Avenue to Eulalie Avenue. The road is an un-urbanized road and will require substantial grading, boulevard and driveway work. The project is to include new curb & gutter for the entire stretch. Sidewalk will be reconstructed as part of this work. Regional services may be upgraded in conjunction with the work.

**Justification**

As outlined in Report DS-07-156 the City established a level of service of 80% of the road network being in good or excellent condition. Reconstruction is needed to address substantial deficiencies in the road. This project aligns with the following goals and themes within the Oshawa Strategic Plan:

Economic Prosperity & Financial Stewardship: Safe and Reliable Infrastructure

Social Equity: An Active, Healthy, and Safe Community

**Comments**

The cost estimate for this project is a Class D estimate, which was prepared in 2015.

**Project Budget Summary**

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Federal Gas Tax Reserve	686,000	0	0
Contribution to Capital	172,000	0	0
<b>Total Financing Sources</b>	<b>858,000</b>	<b>0</b>	<b>0</b>

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>Oshawa Blvd S</b>
<b>Department</b>	Development Services
<b>Subcategory</b>	74 Roads
<b>Project Number</b>	74-0105
<b>Project Location</b>	Gliddon Ave to Eulalie Ave
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	33

**Project Details**

**Project Description**

The scope of the proposed project is to reconstruct Oshawa Blvd S, from Gliddon Avenue to Eulalie Avenue. The road is an un-urbanized road and will require substantial grading, boulevard and driveway work. The project is to include new curb & gutter for the entire stretch. Sidewalk will be reconstructed as part of this work. Regional services may be upgraded in conjunction with the work.

**Justification**

As outlined in Report DS-07-156 the City established a level of service of 80% of the road network being in good or excellent condition. Reconstruction is needed to address substantial deficiencies in the road. This project aligns with the following goals and themes within the Oshawa Strategic Plan:

Economic Prosperity & Financial Stewardship: Safe and Reliable Infrastructure

Social Equity: An Active, Healthy, and Safe Community

**Comments**

The cost estimate for this project is a Class D estimate, which was prepared in 2015.

**Project Budget Summary**

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Federal Gas Tax Reserve	568,000	0	0
Contribution to Capital	142,000	0	0
<b>Total Financing Sources</b>	<b>710,000</b>	<b>0</b>	<b>0</b>

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>Active Transportation Initiatives</b>
<b>Department</b>	Development Services
<b>Subcategory</b>	75 Sidewalks
<b>Project Number</b>	75-P001
<b>Project Location</b>	Various
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	0

**Project Details**

**Project Description**

Projects to implement and grow the active transportation network as outlined in the Active Transportation Master Plan. These projects include on and off road facilities, addressing accessibility of the network, etc.

**Justification**

In 2016 the City approved the Active Transportation Master Plan which outlined the proposed development of new trails throughout the City as part of a connected network of active transportation.

This project aligns with the following goals and themes within the Oshawa Strategic Plan: Economic Prosperity & Financial Stewardship: Safe and Reliable Infrastructure  
Social Equity: An Active, Healthy, and Safe Community

**Project Budget Summary**

<b>Expenditures</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
50-0009 ATMP Oshawa Creek Trail	600,000	0	0
50-0012 ATMP New Trail Development	525,000	0	0
52-0002 ATMP Trail Reconstruction -	100,000	0	0
52-0004 ATMP Trail Reconstruction	0	400,000	500,000
74-0004 Cycling Network Expansion	62,000	0	0
75-0052 Thornton Rd S	92,000	0	86,000
75-0061 Champlain Ave	49,000	0	0
75-0068 2017 Infill Sidewalk Network	0	1,502,000	0
77-0017 Accessible Pedestrian Signals	51,000	0	0
77-0050 ATMP PXO Pedestrian	60,000	0	0
<b>Total Expenditures</b>	<b>1,539,000</b>	<b>1,902,000</b>	<b>586,000</b>

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Growth Related (Non-DC)	451,000	0	13,000
Transportation Roads 2014	120,000	0	73,000
Parks Rec Trails Develop 2014	695,000	0	0
Federal Gas Tax Reserve	162,000	1,601,000	500,000
Transportation Reserve	111,000	0	0
Contribution to Capital	0	301,000	0
<b>Total Financing Sources</b>	<b>1,539,000</b>	<b>1,902,000</b>	<b>586,000</b>

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>ATMP Oshawa Creek Trail Development</b>
<b>Department</b>	Community Services
<b>Subcategory</b>	50 Development Related Parks & Trails
<b>Project Number</b>	50-0009
<b>Project Location</b>	Somerset Park to Taunton Rd.
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	25

**Project Details**

**Project Description**

This project involves the design, engineering and installation of a pedestrian structure and 1.5km trail connection from Somerset Park to the future City-wide trail system proposed through the Oshawa Creek valley corridor.

Trail development in this location is recommended in the Cycling Network Study, draft City Trails Master Plan and achieves goals identified in the Parks, Recreation & Culture Strategy.

This project includes the installation of 3meter wide asphalt trails, signage and landscape planting.

**Justification**

The provision of quality trail facilities aligns with the Oshawa Official Plan, as well as Social Equity, Cultural Vitality, Economic Prosperity, and Environmental Responsibility Goals of the Oshawa Strategic Plan, and ensures significant and active use of public and open space.

**Project Budget Summary**

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Growth Related (Non-DC)	330,000	0	0
Parks Rec Trails Develop 2014	270,000	0	0
<b>Total Financing Sources</b>	<b>600,000</b>	<b>0</b>	<b>0</b>

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>ATMP New Trail Development - Harmony Creek Trail</b>
<b>Department</b>	Community Services
<b>Subcategory</b>	50 Development Related Parks & Trails
<b>Project Number</b>	50-0012
<b>Project Location</b>	Harmony Creek Trail (Coldstream to Legends)
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	25

**Project Details**

**Project Description**

This funding is for the construction of a new section of the Harmony Creek Trail between Coldstream Drive and the Legends Centre.

**Justification**

The provision of quality trail facilities aligns with the Oshawa Official Plan, as well as Social Equity, Cultural Vitality, Economic Prosperity, and Environmental Responsibility Goals of the Oshawa Strategic Plan, and ensures significant and active use of public and open space.

**Comments**

Through the development approval process the City acquired land adjacent to the Harmony Creek valley for future trail development. In 2004 Council approved the collection of new Development Charges to begin to fund trail development associated with new development.

**Project Budget Summary**

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Growth Related (Non-DC)	100,000	0	0
Parks Rec Trails Develop 2014	425,000	0	0
<b>Total Financing Sources</b>	<b>525,000</b>	<b>0</b>	<b>0</b>



**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>ATMP Trail Reconstruction - 2017</b>
<b>Department</b>	Community Services
<b>Subcategory</b>	52 Trails
<b>Project Number</b>	52-0002
<b>Project Location</b>	Various
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	29

**Project Details**

**Project Description**

This project includes funding for reconstruction and upgrades of existing paved trails and gravel trails.

**Justification**

The City has 30 km of paved and unpaved trails in its inventory that vary in age and condition. Reconstruction of deteriorated portions and paving of granular areas of the trail network are required to maintain safety, accessibility and reduce maintenance cost and potential liability. Various trails that require repair or upgrade include Michael Starr (north of Adelaide and from Coldstream to Taunton), Oshawa Trail (through Farewell Park, OVBG entrance and area to Memory Garden) and trail through Glen Stewart Park connecting to new bridge installation in 2017 (development of this park area is being coordinated with Facility Maintenance, Parks and Engineering).

**Comments**

The provision of quality trail facilities aligns with the Oshawa Official Plan, as well as Social Equity, Cultural Vitality, Economic Prosperity, and Environmental Responsibility Goals of the Oshawa Strategic Plan, and ensures significant and active use of public and open space.

**Project Budget Summary**

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Federal Gas Tax Reserve	100,000	0	0
<b>Total Financing Sources</b>	<b>100,000</b>	<b>0</b>	<b>0</b>

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>Cycling Network Expansion</b>
<b>Department</b>	Community Services
<b>Subcategory</b>	74 Roads
<b>Project Number</b>	74-0004
<b>Project Location</b>	Various
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	33

**Project Details**

**Project Description**

This project implements on road cycling facilities as outlined in the Active Transportation Master Plan. The focus of this implementation is to create and expand the connected network of facilities throughout the City. This implementation will also consider the connection to off-road active transportation facilities identified in other projects.

**Justification**

In 2015, Council approved the “Active Transportation Master Plan”. As part of the Integrated Transportation Master Plan, this plan provides a guideline to implementing on and off-road cycling facilities. This project achieves Oshawa Strategic Goals as follows: 3. Social Equity, to ensure an inclusive, healthy and safe community by having safe separate areas for cyclists away from vehicular traffic; and Goal 5. Environmental Responsibility to protect and promote the natural environment by reduced emissions and clean air.

**Comments**

The introduction of a cycling route with an edge line provides significantly more comfort for the cyclist, as compared to a cycling route with signage only. For this reason, staff recommend the use of edge lines for cycling routes in Oshawa, where pavement width allows. This project is required to implement on-road cycling routes and cycling lanes as approved by Council.

**Project Budget Summary**

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Federal Gas Tax Reserve	62,000	0	0
<b>Total Financing Sources</b>	<b>62,000</b>	<b>0</b>	<b>0</b>

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>Thornton Rd S</b>
<b>Department</b>	Development Services
<b>Subcategory</b>	75 Sidewalks
<b>Project Number</b>	75-0052
<b>Project Location</b>	Champlain Ave To 570m N Of Champlain Ave
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	46

**Project Details**

**Project Description**

This project is to fund the construction of sidewalk on Thornton Rd S, which will be completed in conjunction with the Region of Durham road contract. Under the Municipal Act s. 55(1), the City is responsible for the construction and maintenance of sidewalks on Regional Roads. The Region will provide for all grading necessary to construct a platform at their cost during their road construction, and will construct the concrete sidewalk on the City's behalf.

The scope of the portion funded by the City includes the construction of a concrete sidewalk and asphalt multi-use path as part of the Durham Learning & Business Innovation Park development.

**Justification**

Completion of this sidewalk section will provide for safe pedestrian traffic from and to the University, College, Industrial, and Commercial campuses on the west side of Thornton Rd and to the new Go Station and shopping centre east side. This will be a highly pedestrian trafficked area. Postponing paying the City's share of the sidewalk construction or failure to coordinate with the Region will result in various consequences. Such consequences are but are not limited to: if the concrete portion is not completed at the same time the graded platform can be lost and need to be redone at City cost; additional costs incurred if the City builds the sidewalk outside of the regional road contract; strained relationship with the Region; and negative exposure against the City's reputation and image.

**Comments**

This estimate was received from the Region in 2016.

**Project Budget Summary**

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Growth Related (Non-DC)	14,000	0	13,000
Transportation Roads 2014	78,000	0	73,000
<b>Total Financing Sources</b>	<b>92,000</b>	<b>0</b>	<b>86,000</b>

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>Champlain Ave</b>
<b>Department</b>	Development Services
<b>Subcategory</b>	75 Sidewalks
<b>Project Number</b>	75-0061
<b>Project Location</b>	West City Limits To Thornton Rd S
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	46

**Project Details**

**Project Description**

This project is to fund the construction of sidewalk and temporary sidewalk on Champlain Ave, which will be completed in conjunction with the Region of Durham road contract. Under the Municipal Act s. 55(1), the City is responsible for the construction and maintenance of sidewalks on Regional Roads. The Region will provide for all grading necessary to construct a platform at their cost during their road construction, and will construct the concrete sidewalk on the City's behalf.

The scope of the portion funded by the City includes the construction of a concrete sidewalk and asphalt temporary sidewalk as part of the Durham Learning & Business Innovation Park development.

**Justification**

Completion of this sidewalk section will provide for safe pedestrian traffic from and to the University, College, Industrial, and Commercial campuses on Champlain Ave and to the new Go Station and shopping centre east side. This will be a highly pedestrian trafficked area. Postponing paying the City's share of the sidewalk construction or failure to coordinate with the Region will result in various consequences. Such consequences are but are not limited to: if the concrete portion is not completed at the same time the graded platform can be lost and need to be redone at City cost; additional costs incurred if the City builds the sidewalk outside of the regional road contract; strained relationship with the Region; and negative exposure against the City's reputation and image.

**Comments**

This estimate was received from the Region in 2016.

**Project Budget Summary**

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Growth Related (Non-DC)	7,000	0	0
Transportation Roads 2014	42,000	0	0
<b>Total Financing Sources</b>	<b>49,000</b>	<b>0</b>	<b>0</b>

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>Accessible Pedestrian Signals</b>
<b>Department</b>	Community Services
<b>Subcategory</b>	77 Traffic Signals
<b>Project Number</b>	77-0017
<b>Project Location</b>	TBD
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	Yes
<b>Score</b>	39

**Project Details**

<p><b>Project Description</b>          2017- New Accessible Pedestrian Signal at one location - waiting for Region of Durham to provide the location.</p> <p><b>Justification</b>          Accessible Pedestrian Signals (APS) are required at this intersection based on Canadian National Institute for the Blind (CNIB) warrant criteria. APS signals provide safe crossings for people with visual impairment. This project achieves Oshawa Strategic Goal, 3. Social Equity, Ensure an inclusive, healthy and safe community through Enrich our community through diversity, to continue to be a barrier-free community.</p>
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**Project Budget Summary**

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Transportation Reserve	51,000	0	0
<b>Total Financing Sources</b>	<b>51,000</b>	<b>0</b>	<b>0</b>

**City of Oshawa**  
**Capital Project Detail Sheet**

<b>Project Name</b>	<b>ATMP PXO Pedestrian Signals</b>
<b>Department</b>	Community Services
<b>Subcategory</b>	77 Traffic Signals
<b>Project Number</b>	77-0050
<b>Project Location</b>	TBD
<b>Ward</b>	NA
<b>Time Sensitive</b>	No
<b>Accessibility</b>	No
<b>Score</b>	29

**Project Details**

**Project Description**

PXO Pedestrian Signals for 2 locations. City staff to prioritize locations based on warrant criteria and demand. The updated Ontario Traffic Manual Book 15 Pedestrian Crossing Treatments along with new Ontario Highway Traffic Act (HTA) regulations have introduced new PXO's for lower class roadways.

The new PXO's are a cost effective pedestrian crossing option that may be implemented where traditional Pedestrian Crossovers/Pedestrian Signals are not appropriate.

Possible locations are:

Kaiser Crescent @ Colborne Street

Beatrice Street east of Ritson Road

Hillcroft Street @ Michael Starr Trail

Additional review is required to determine if warrant criteria are met.

**Justification**

To improve pedestrian crossing safety. To implement PXO's at locations which meet warrant criteria in the Ontario Traffic Manual. This project achieves Oshawa Strategic Goal, 1. Economic Prosperity, to ensure economic growth and sound financial future through safe and reliable infrastructure.

**Project Budget Summary**

<b>Financing Sources</b>	<b>2017</b>	<b>2018 to 2021</b>	<b>2022 to 2026</b>
Transportation Reserve	60,000	0	0
<b>Total Financing Sources</b>	<b>60,000</b>	<b>0</b>	<b>0</b>