

**TOWN OF STRATFORD**  
**ADOPTED CAPITAL IMPROVEMENT PROGRAM**  
**2009 - 2013**



**LISTING OF CIP PROJECTS BY DEPARTMENT (CONTINUED)**

**ROADS & SEWERS**

Description	Cost 2009	Cost 2010	Cost 2011	Cost 2012	Cost 2013	Five Year Total	Funding Source
Road Resurfacing	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 2,500,000	Bond
Road Reconstruction	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 2,500,000	Bond
Pinetree Trail	\$ -	\$ 400,000	\$ -	\$ -	\$ -	\$ 400,000	Bond
West Broad and Knowlton St. intersection	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ 200,000	Bond
Barnum Avenue Streetscape Improvements	\$ 1,500,000	\$ 1,500,000	\$ -	\$ -	\$ -	\$ 3,000,000	Bond
Whippoorwill Lane Bridge replacement	\$ -	\$ -	\$ 375,000	\$ -	\$ -	\$ 375,000	Bond
West Broad RR Underpass Drainage	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000	Bond
Barnum & Nichols drainage improve.	\$ -	\$ -	\$ -	\$ 400,000	\$ -	\$ 400,000	Bond
Bruce Brook improvement @ Sage	\$ 1,000,000	\$ 1,300,000	\$ 500,000	\$ -	\$ -	\$ 2,800,000	Bond
Widen Freeman Brook @ Oronoque	\$ -	\$ -	\$ 750,000	\$ -	\$ -	\$ 750,000	Bond
Broadbridge culvert over Bruce Brook	\$ -	\$ -	\$ 550,000	\$ -	\$ -	\$ 550,000	Bond
Stormwater Pump Station at Beach Dr	\$ -	\$ -	\$ -	\$ -	\$ 2,100,000	\$ 2,100,000	Bond
California St Condo Channel Improve	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000	Bond
Install tidegates at Lordship Blvd	\$ -	\$ -	\$ -	\$ 1,000,000	\$ -	\$ 1,000,000	Bond
Landfill Closure	\$ -	\$ -	\$ -	\$ 5,500,000	\$ -	\$ 5,500,000	Bond
Access Rd Drainage Ditch Dredging	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ 60,000	LoCIP
Albert Ave Drainage relief pipe	\$ 75,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ -	\$ 825,000	LoCIP
South End Stream and Pipe Clean/Dredge	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ 125,000	LoCIP
Surf Ave Culvert Study	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000	LoCIP
Miscellaneous Drainage Projects	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000	LoCIP
Pump Station Upgrades	\$ -	\$ 800,000	\$ -	\$ -	\$ -	\$ 800,000	Bond/Sewer
Miscellaneous Sewer Projects	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000	Bond/Sewer
<b>Roads &amp; Sewers Subtotal</b>	<b>\$ 4,460,000</b>	<b>\$ 6,200,000</b>	<b>\$ 3,625,000</b>	<b>\$ 8,350,000</b>	<b>\$ 3,300,000</b>	<b>\$ 25,935,000</b>	

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Highway		
<b>Project Name</b>	Road Resurfacing		
<b>New</b>	No	<b>Replacement</b>	Yes
<b>Current Age</b>	Varies	<b>Estimated Life</b>	Varies
<b>Reason for Need</b>	Funds will be used to resurface and overlay streets throughout Town. Improving their condition and extending their life prevents the need for costly reconstruction.		

<b>Cost 2009</b>	\$500,000
<b>Cost 2010</b>	\$500,000
<b>Cost 2011</b>	\$500,000
<b>Cost 2012</b>	\$500,000
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	<u>\$2,000,000</u>

<b>Potential Funding Source</b>	Bond
<b>Possible Savings or Other Considerations</b>	
<b>Fund</b>	Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Highway		
<b>Project Name</b>	Road Reconstruction		
<b>New</b>	No	<b>Replacement</b>	Yes
<b>Current Age</b>	30	<b>Estimated Life</b>	30
<b>Reason for Need</b>	Reconstruct roads where pavement has failed and structural improvements are necessary for safety and longevity.		

<b>Cost 2009</b>	\$500,000
<b>Cost 2010</b>	\$500,000
<b>Cost 2011</b>	\$500,000
<b>Cost 2012</b>	\$500,000
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	<u>\$2,000,000</u>

<b>Potential Funding Source</b>	Bond
<b>Possible Savings or Other Considerations</b>	
<b>Fund</b>	Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Engineering		
<b>Project Name</b>	Pinetree Trail		
<b>New</b>	Yes	<b>Replacement</b>	No
<b>Current Age</b>	0	<b>Estimated Life</b>	20
<b>Reason for Need</b>	Previous public hearing held petitioning for this dirt road to be improved to Town standards and accepted as a Town road.		

<b>Cost 2009</b>	\$0
<b>Cost 2010</b>	\$400,000
<b>Cost 2011</b>	\$0
<b>Cost 2012</b>	\$0
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	\$400,000

<b>Potential Funding Source</b>	Bond
<b>Possible Savings or Other Considerations</b>	
<b>Fund</b>	Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Engineering		
<b>Project Name</b>	West Broad and Knowlton St. intersection		
<b>New</b>	No	<b>Replacement</b>	Yes
<b>Current Age</b>	30	<b>Estimated Life</b>	30
<b>Reason for Need</b>	Improve intersection to add left hand turn lane on West Broad Street to increase the capacity of the intersection.		

<b>Cost 2009</b>	\$0
<b>Cost 2010</b>	\$200,000
<b>Cost 2011</b>	\$0
<b>Cost 2012</b>	\$0
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	<u>\$200,000</u>

<b>Potential Funding Source</b>	Bond
<b>Possible Savings or Other Considerations</b>	
<b>Fund</b>	Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Engineering		
<b>Project Name</b>	Barnum Avenue Streetscape Improvements		
<b>New</b>	Yes	<b>Replacement</b>	No
<b>Current Age</b>	0	<b>Estimated Life</b>	30
<b>Reason for Need</b>	Improve the image of the Town at specific locations along Barnum Avenue. Federal and state matching grant dollars have been sought for this project which will enhance economic development in the area as well as improve pedestrian safety.		

<b>Cost 2009</b>	\$1,500,000
<b>Cost 2010</b>	\$1,500,000
<b>Cost 2011</b>	\$0
<b>Cost 2012</b>	\$0
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	<u>\$3,000,000</u>

<b>Potential Funding Source</b>	Bond
<b>Possible Savings or Other Considerations</b>	
<b>Fund</b>	Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers
<b>Lead Department</b>	Engineering
<b>Project Name</b>	Whippoorwill Lane Bridge replacement
<b>New</b>	No <b>Replacement</b> Yes
<b>Current Age</b>	<b>Estimated Life</b>
<b>Reason for Need</b>	Replace existing deteriorating culvert with 10' X 6' culvert and re-grade stream on both ends to convey the 50-year storm protection.

<b>Cost 2009</b>	\$0
<b>Cost 2010</b>	\$0
<b>Cost 2011</b>	\$375,000
<b>Cost 2012</b>	\$0
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	<u>\$375,000</u>

<b>Potential Funding Source</b>	Bond
<b>Possible Savings or Other Considerations</b>	
<b>Fund</b>	Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Engineering		
<b>Project Name</b>	West Broad RR Underpass Drainage		
<b>New</b>	No	<b>Replacement</b>	Yes
<b>Current Age</b>	110	<b>Estimated Life</b>	50
<b>Reason for Need</b>	Current pipe is under capacity and flooding of the underpass occurs and occasionally onto Ross and Roberts property. Replacement will upgrade capacity to a 10-25 year storm protection and tie into upgraded culvert at King Street.		

<b>Cost 2009</b>	\$500,000
<b>Cost 2010</b>	\$0
<b>Cost 2011</b>	\$0
<b>Cost 2012</b>	\$0
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	<u>\$500,000</u>

<b>Potential Funding Source</b>	Bond
<b>Possible Savings or Other Considerations</b>	
<b>Fund</b>	Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Engineering		
<b>Project Name</b>	Barnum & Nichols drainage improve.		
<b>New</b>	No	<b>Replacement</b>	Yes
<b>Current Age</b>	58	<b>Estimated Life</b>	30
<b>Reason for Need</b>	Install 300 feet of 3' X 5' box culvert and 50 feet of 60" pipe in order to alleviate flooding of the intersection.		

<b>Cost 2009</b>	\$0
<b>Cost 2010</b>	\$0
<b>Cost 2011</b>	\$0
<b>Cost 2012</b>	\$400,000
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	\$400,000

<b>Potential Funding Source</b>	Bond
<b>Possible Savings or Other Considerations</b>	
<b>Fund</b>	Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Engineering		
<b>Project Name</b>	Bruce Brook improvement @ Sage, Barnum Avenue		
<b>New</b>	No	<b>Replacement</b>	Yes
<b>Current Age</b>	50+	<b>Estimated Life</b>	50
<b>Reason for Need</b>	Existing channel and culverts are under capacity from Boston Avenue. Proposed to widen channel to 20' wide for 1000', reconstruct Barnum Avenue crossing doubling the size to provide 50-year capacity within the banks. Easement required.		

<b>Cost 2009</b>	\$1,000,000
<b>Cost 2010</b>	\$1,300,000
<b>Cost 2011</b>	\$500,000
<b>Cost 2012</b>	\$0
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	<u>\$2,800,000</u>

**Potential Funding Source**      Bond

**Possible Savings or Other Considerations**

**Fund**      Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Engineering		
<b>Project Name</b>	Widen Freeman Brook @ Oronoque		
<b>New</b>	No	<b>Replacement</b>	Yes
<b>Current Age</b>	30	<b>Estimated Life</b>	50
<b>Reason for Need</b>	<p>Conduct study on design, permit and construct improvements in order to widen Freeman Brook along Algonquin Trail in Oronoque Village for the purpose of increasing stream capacity and prevent flooding to several condominium garage units. Also included is the work necessary to retain increased runoff downstream to mitigate existing problems downstream of this location. Several erosion problems have been reported south of the Merritt Parkway on Freeman Brook.</p>		

<b>Cost 2009</b>	\$0
<b>Cost 2010</b>	\$0
<b>Cost 2011</b>	\$750,000
<b>Cost 2012</b>	\$0
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	\$750,000

<b>Potential Funding Source</b>	Bond
<b>Possible Savings or Other Considerations</b>	
<b>Fund</b>	Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Engineering		
<b>Project Name</b>	Broadbridge culvert over Bruce Brook		
<b>New</b>	No	<b>Replacement</b>	Yes
<b>Current Age</b>	50	<b>Estimated Life</b>	50
<b>Reason for Need</b>	Replace existing deteriorating culvert with 18' X 4' culvert and regrade stream on both ends to convey the 50-year storm protection.		

<b>Cost 2009</b>	\$0
<b>Cost 2010</b>	\$0
<b>Cost 2011</b>	\$550,000
<b>Cost 2012</b>	\$0
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	<u>\$550,000</u>

<b>Potential Funding Source</b>	Bond
<b>Possible Savings or Other Considerations</b>	
<b>Fund</b>	Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Engineering		
<b>Project Name</b>	Stormwater Pump Station at Beach Dr		
<b>New</b>	Yes	<b>Replacement</b>	No
<b>Current Age</b>	0	<b>Estimated Life</b>	25
<b>Reason for Need</b>	Flooding occurs periodically between Oak Bluff and Jefferson. A solution to this problem is to install 200 feet of 24-inch pipe, 600 feet of 48-inch pipe and a stormwater pumping station. This solution provides protection for the 5-10 year storm.		

<b>Cost 2009</b>	\$0
<b>Cost 2010</b>	\$0
<b>Cost 2011</b>	\$0
<b>Cost 2012</b>	\$0
<b>Cost 2013</b>	\$2,100,000
<b>Total Cost</b>	<u>\$2,100,000</u>

<b>Potential Funding Source</b>	Bond
<b>Possible Savings or Other Considerations</b>	
<b>Fund</b>	Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Engineering		
<b>Project Name</b>	California St Condo Channel Improvement		
<b>New</b>	No	<b>Replacement</b>	Yes
<b>Current Age</b>	35	<b>Estimated Life</b>	50
<b>Reason for Need</b>	Current pipe is under capacity and flooding of the underpass occurs and occasionally flooding onto Ross and Roberts property. Replacement will upgrade capacity to a 10-25 year storm protection and tie into upgraded culvert at King Street.		

<b>Cost 2009</b>	\$0
<b>Cost 2010</b>	\$500,000
<b>Cost 2011</b>	\$0
<b>Cost 2012</b>	\$0
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	\$500,000

<b>Potential Funding Source</b>	Bond
<b>Possible Savings or Other Considerations</b>	
<b>Fund</b>	Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Engineering		
<b>Project Name</b>	Install Tidegates at Lordship Blvd		
<b>New</b>	Yes	<b>Replacement</b>	No
<b>Current Age</b>	0	<b>Estimated Life</b>	30
<b>Reason for Need</b>	Inadequate drainage occurs because of tidal inflow. Install 6 tidegates as previously proposed by the DOT to provide minimum relief from a 10-year storm during high tide events due to the low elevations upstream.		

<b>Cost 2009</b>	\$0
<b>Cost 2010</b>	\$0
<b>Cost 2011</b>	\$0
<b>Cost 2012</b>	\$1,000,000
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	\$1,000,000

<b>Potential Funding Source</b>	Bond
<b>Possible Savings or Other Considerations</b>	
<b>Fund</b>	Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Engineering		
<b>Project Name</b>	Landfill Closure		
<b>New</b>	Yes	<b>Replacement</b>	No
<b>Current Age</b>	0	<b>Estimated Life</b>	50
<b>Reason for Need</b>	The DEP requires that the Town close the landfill with a permanent cap. These funds will meet that mandate.		

<b>Cost 2009</b>	\$0
<b>Cost 2010</b>	\$0
<b>Cost 2011</b>	\$0
<b>Cost 2012</b>	\$5,500,000
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	<u>\$5,500,000</u>

<b>Potential Funding Source</b>	Bond
<b>Possible Savings or Other Considerations</b>	
<b>Fund</b>	Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Engineering		
<b>Project Name</b>	Access Rd Drainage Ditch Dredging		
<b>New</b>	No	<b>Replacement</b>	Yes
<b>Current Age</b>	65	<b>Estimated Life</b>	20
<b>Reason for Need</b>	Remove accumulated sediment and debris from the roadside swale on the airport side of Access Road to help the drainage flow from the Old South Avenue drainage system.		

<b>Cost 2009</b>	\$60,000
<b>Cost 2010</b>	\$0
<b>Cost 2011</b>	\$0
<b>Cost 2012</b>	\$0
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	\$60,000

**Potential Funding Source**                      LoCIP

**Possible Savings or Other Considerations**

**Fund**    Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Engineering		
<b>Project Name</b>	Albert Ave Drainage relief pipe		
<b>New</b>	No	<b>Replacement</b>	Yes
<b>Current Age</b>	53	<b>Estimated Life</b>	50
<b>Reason for Need</b>	Install a relief storm sewer to alleviate flooding at 204 Albert Avenue.		

<b>Cost 2009</b>	\$75,000
<b>Cost 2010</b>	\$250,000
<b>Cost 2011</b>	\$250,000
<b>Cost 2012</b>	\$250,000
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	<u>\$825,000</u>

**Potential Funding Source**                      LoCIP

**Possible Savings or Other Considerations**

**Fund**    Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Engineering		
<b>Project Name</b>	South End Stream and Pipe Clean/Dredge		
<b>New</b>	No	<b>Replacement</b>	Yes
<b>Current Age</b>	N/A	<b>Estimated Life</b>	15
<b>Reason for Need</b>	Sediment and vegetation has collected in culverts and streams downstream of Benton St. These culverts and streams are on private property and have not been maintained. Removal of sediment and vegetation will help but not solve flooding problems in this area.		

<b>Cost 2009</b>	\$125,000
<b>Cost 2010</b>	\$0
<b>Cost 2011</b>	\$0
<b>Cost 2012</b>	\$0
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	\$125,000

**Potential Funding Source**                      LoCIP

**Possible Savings or Other Considerations**

**Fund**    Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Engineering		
<b>Project Name</b>	Surf Ave Culvert Study		
<b>New</b>	No	<b>Replacement</b>	Yes
<b>Current Age</b>	50	<b>Estimated Life</b>	50
<b>Reason for Need</b>	State inspection report rated bridge as in Fair condition. Flooding occurs at this location due to tidal flows. Recommend hydraulic study to solve the flooding condition and evaluate needed repairs or replacement of the culvert.		

<b>Cost 2009</b>	\$0
<b>Cost 2010</b>	\$50,000
<b>Cost 2011</b>	\$0
<b>Cost 2012</b>	\$0
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	\$50,000

<b>Potential Funding Source</b>	LoCIP
<b>Possible Savings or Other Considerations</b>	
<b>Fund</b>	Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Engineering		
<b>Project Name</b>	Miscellaneous Drainage Projects		
<b>New</b>	Yes	<b>Replacement</b>	No
<b>Current Age</b>	45+	<b>Estimated Life</b>	30
<b>Reason for Need</b>	The Town's aging system requires repairs, replacements and additions at various locations.		

<b>Cost 2009</b>	\$100,000
<b>Cost 2010</b>	\$100,000
<b>Cost 2011</b>	\$0
<b>Cost 2012</b>	\$0
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	<u>\$200,000</u>

**Potential Funding Source**                      LoCIP

**Possible Savings or Other Considerations**

**Fund**    Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	WPCA		
<b>Project Name</b>	Pump Station Upgrades		
<b>New</b>	No	<b>Replacement</b>	Yes
<b>Current Age</b>	40+	<b>Estimated Life</b>	20
<b>Reason for Need</b>	Various pump stations will need rehabilitation. Improvements may include new pumps, piping and electrical controls, back-up generators, in addition to building improvements such as roofs, windows, doors and possible building alterations to accommodate new equipment.		

<b>Cost 2009</b>	\$0
<b>Cost 2010</b>	\$800,000
<b>Cost 2011</b>	\$0
<b>Cost 2012</b>	\$0
<b>Cost 2013</b>	\$0
<b>Total Cost</b>	<u>\$800,000</u>

<b>Potential Funding Source</b>	Bond/Sewer
<b>Possible Savings or Other Considerations</b>	
<b>Fund</b>	Capital Improvement

# Town of Stratford Adopted Capital Improvement & Equipment Program



<b>Program</b>	Roads & Sewers		
<b>Lead Department</b>	Engineering		
<b>Project Name</b>	Miscellaneous Sewer Projects		
<b>New</b>	No	<b>Replacement</b>	Yes
<b>Current Age</b>	Varies	<b>Estimated Life</b>	50
<b>Reason for Need</b>	These funds will be utilized to replace/repair sections of the sewer system that are in disrepair.		

<b>Cost 2009</b>	\$100,000
<b>Cost 2010</b>	\$100,000
<b>Cost 2011</b>	\$100,000
<b>Cost 2012</b>	\$100,000
<b>Cost 2013</b>	\$100,000
<b>Total Cost</b>	<u>\$500,000</u>

<b>Potential Funding Source</b>	Bond/Sewer
<b>Possible Savings or Other Considerations</b>	
<b>Fund</b>	Capital Improvement