

**TOWNSEND CENTRE BRIDGE**

Site Number 980502

**COUNTY ROAD 5 (COCKSHUTT), TOWNSEND**

0.1 km N of County Road 9

**Ontario Structure Inspection Manual - Inspection Form**

**Site Number:**

Inventory Data:			
Structure Name	<input type="text" value="Townsend Centre Bridge"/>		
Main Hwy/Road #	<input type="text" value="COCKSHUTT RD"/>	<input checked="" type="checkbox"/> On <input type="checkbox"/> Under	Crossing Type: <input type="checkbox"/> Rail <input type="checkbox"/> Road <input type="checkbox"/> Navig. Water <input type="checkbox"/> Ped. <input type="checkbox"/> Other <input checked="" type="checkbox"/> Non-Navig. Water
Hwy/Road Name	<input type="text" value="COUNTY ROAD 5 (COCKSHUTT), TOWNSEND"/>		
Structure Location	<input type="text" value="0.1 km N of County Road 9"/>		
Latitude	<input n"="" type="text" value="42d 55' 54"/>	Longitude	<input "="" type="text" value="80d 14' 51"/>
Owner(s)	<input type="text" value="Norfolk County"/>	Heritage Designation:	<input checked="" type="checkbox"/> Not Cons. <input type="checkbox"/> Cons./not App. <input type="checkbox"/> List/not Design. <input type="checkbox"/> Design. & List <input type="checkbox"/> Design./not List
MTO Region	<input type="text" value="30"/> Southwestern	Road Class:	<input type="checkbox"/> Freeway <input type="checkbox"/> Arterial <input type="checkbox"/> Collector <input checked="" type="checkbox"/> Local
MTO District	<input type="text" value="31"/> London / Stratford	Posted Speed	<input type="text" value="80"/> No. of Lanes <input type="text" value="2"/>
Old County	<input type="text" value="20"/> Norfolk	AADT	<input type="text" value="2942"/> % Trucks <input type="text"/>
Geographic Twp.	<input type="text" value="125"/> Townsend	Inspection Route Sequence	<input type="text"/>
Structure Type	<input type="text" value="12"/> Rectangular Culvert	Interchange Number	<input type="text"/>
Total Deck Length	<input type="text" value="12.2"/> (m)	Interchange Structure Number	<input type="text"/>
Overall Str. Width	<input type="text" value="21.3"/> (m)	Min. Vertical Clearance	<input type="text"/> (m)
Total Deck Area	<input type="text" value="259.9"/> (m <sup>2</sup> )	Special Route	<input type="checkbox"/> Truck <input type="checkbox"/> Emergency <input type="checkbox"/> School <input type="checkbox"/> Bicycle
Roadway Width	<input type="text" value="7.5"/> (m)	Detour Length Around Bridge	<input type="text" value="10"/> (km)
Skew Angle	<input type="text"/> (Degrees)	Direction of Structure	<input type="text" value="East / West"/>
No. of Spans	<input type="text" value="2"/>	Fill on Structure	<input type="text" value="0.2"/> (m)
Span Length	<input type="text" value="2 @ 5.5"/> (m)		

Historical Data:			
Year Built	<input type="text" value="1968"/>	Year of Last Major Rehab.	<input type="text"/>
Last OSIM Inspection	<input type="text" value="May 29, 2014"/>	Last Evaluation	<input type="text"/>
Last Enhanced OSIM Inspection	<input type="text"/>	Current Load Limit	<input type="text" value="/ /"/> (tonnes)
Enhanced Access Equipment (ladder, boat, lift, etc.)	<input type="text"/>	Load Limit By-Law #	<input type="text"/>
Last Underwater Inspection	<input type="text"/>	By-Law Expiry Date	<input type="text"/>
Last Condition Survey	<input type="text"/>		
Rehab History: (Date/description)			
Vertical clearance = 1.1m in north barrel, 1.8m in south barrel			

**Ontario Structure Inspection Manual - Inspection Form**

**Site Number:**

Field Inspection Information:		
Date of Inspection:	July 11, 2016	Type of Inspection: <input checked="" type="checkbox"/> OSIM <input type="checkbox"/> Enhanced OSIM
Inspector:	Ben Buchwald M.Eng., EIT, G. Douglas Vallee Ltd.	
Others in Party:	N/A	
Access Equipment Used:	Hammer, Binoculars, Measuring Tape, Camera, etc.	
Weather:	Sunny	
Temperature:	29 °C	

Additional Investigation Required:	Priority		
	None	Normal	Urgent
Material Condition Survey			
<input checked="" type="checkbox"/> Detailed Deck Condition Survey:	<input checked="" type="checkbox"/>		
<input checked="" type="checkbox"/> Non-destructive Delamination Survey of Asphalt-Covered Deck:	<input checked="" type="checkbox"/>		
<input checked="" type="checkbox"/> Concrete Substructure Condition Survey:	<input checked="" type="checkbox"/>		
<input checked="" type="checkbox"/> Detailed Coating Condition Survey:	<input checked="" type="checkbox"/>		
<input checked="" type="checkbox"/> Detailed Timber Investigation	<input checked="" type="checkbox"/>		
<input checked="" type="checkbox"/> Post-Tensioned Strand Investigation	<input checked="" type="checkbox"/>		
Underwater Investigation:	<input checked="" type="checkbox"/>		
Fatigue Investigation:	<input checked="" type="checkbox"/>		
Seismic Investigation:	<input checked="" type="checkbox"/>		
Structure Evaluation:	<input checked="" type="checkbox"/>		
Monitoring			
<input checked="" type="checkbox"/> Monitoring of Deformations, Settlements and Movements:	<input checked="" type="checkbox"/>		
<input checked="" type="checkbox"/> Monitoring Crack Widths:	<input checked="" type="checkbox"/>		
Investigation Notes:			
No signs or barriers.			

Overall Structure Notes:	
Recommended Work on Structure:	<input type="checkbox"/> None <input checked="" type="checkbox"/> Minor Rehab. <input type="checkbox"/> Replace <input type="checkbox"/> Maintenance <input type="checkbox"/> Major Rehab.
Timing of Recommended Work:	<input type="checkbox"/> 1 to 5 years <input checked="" type="checkbox"/> 6 to 10 years
Overall Comments:	
Date of next Inspection:	July 11, 2018

**Suspected Performance Deficiencies**

- |   |  |                              |
|---|--|------------------------------|
| 01 Load carrying capacity                           | 07 Bearing not uniformly loaded/unstable | 12 Slippery surfaces         |
| 02 Excessive deformations (deflections & rotations) | 08 Jammed expansion joint                | 13 Flooding/channel blockage |
| 03 Continuing settlement                            | 09 Pedestrian/vehicular hazard           | 14 Undermining of foundation |
| 04 Continuing movements                             | 10 Rough riding surface                  | 15 Unstable embankments      |
| 05 Seized bearings                                  | 11 Deck drainage                         | 16 Other                     |

**Maintenance Needs**

- |                                      |                                 |  |
|--------------------------------------|---------------------------------|--|
| 01 Lift and swing bridge maintenance | 07 Repair to structural steel   | 13 Erosion control at bridges            |
| 02 Bridge cleaning                   | 08 Repair of bridge concrete    | 14 Concrete sealing                      |
| 03 Bridge handrail maintenance       | 09 Repair of bridge timber      | 15 Rout and seal                         |
| 04 Painting steel bridge structures  | 10 Bailey bridges - maintenance | 16 Bridge deck drainage                  |
| 05 Bridge deck joint repair          | 11 Animal/pest control          | 17 Scaling (Loose concrete or ACR steel) |
| 06 Bridge bearing maintenance        | 12 Bridge surface repair        | 18 Other                                 |



**Ontario Structure Inspection Manual - Inspection Form**

**Site Number:** 980502

**Element Data**

Element Group:	900 Abutments					Length:	
Element Name:	902 Ballast Walls					Width:	
Location:	End of Beams					Height:	
Material:	4 Cast-in-place Concrete					Count:	2
Element Type:						Total Quantity:	2 Each
Environment:	Benign					Limited Inspection:	
Protection System:	Unknown					Perform. Deficiencies	
Condition	Units	Exc.	Good	Fair	Poor		
Data:	Each	0	0	2	0		
Comments: Visible between beams. Very minor delamination in East ballast wall.							
Recommended Work: Rehab <input type="checkbox"/> Replace <input type="checkbox"/>						Maintenance Needs:	
Timing: Urgent <input type="checkbox"/> < 1yr <input type="checkbox"/> 1 - 5 yr <input type="checkbox"/> 6 - 10 yr <input type="checkbox"/>						<input type="checkbox"/> Urgent <input type="checkbox"/> 1 year <input type="checkbox"/> 2 year	

Element Group:	900 Abutments					Length:	
Element Name:	904 Bearings					Width:	
Location:	Under Beams					Height:	
Material:	14 Steel					Count:	14
Element Type:						Total Quantity:	14 Each
Environment:	Moderate					Limited Inspection:	
Protection System:	Unknown					Perform. Deficiencies	
Condition	Units	Exc.	Good	Fair	Poor		
Data:	Each	0	12	2	0		
Comments: SE abutment concrete raised bearing seat has crack. Monitor and repair. Northeast bearing plate corroded.							
Recommended Work: Rehab <input checked="" type="checkbox"/> Replace <input type="checkbox"/>						Maintenance Needs:	
Timing: Urgent <input type="checkbox"/> < 1yr <input type="checkbox"/> 1 - 5 yr <input checked="" type="checkbox"/> 6 - 10 yr <input type="checkbox"/>						<input type="checkbox"/> Urgent <input type="checkbox"/> 1 year <input type="checkbox"/> 2 year	

Element Group:	900 Abutments					Length:	18.2
Element Name:	901 Abutment Walls					Width:	
Location:	In Abutment Walls					Height:	
Material:	4 Cast-in-place Concrete					Count:	2
Element Type:						Total Quantity:	36.4 m
Environment:	Benign					Limited Inspection:	
Protection System:	Unknown					Perform. Deficiencies	
Condition	Units	Exc.	Good	Fair	Poor		
Data:	m	0	18.2	18.2	0		
Comments: West wall heavily weathered. Cracks and deterioration at East and West abutment construction joint.							
Recommended Work: Rehab <input checked="" type="checkbox"/> Replace <input type="checkbox"/>						Maintenance Needs:	
Timing: Urgent <input type="checkbox"/> < 1yr <input type="checkbox"/> 1 - 5 yr <input type="checkbox"/> 6 - 10 yr <input checked="" type="checkbox"/>						<input type="checkbox"/> Urgent <input type="checkbox"/> 1 year <input type="checkbox"/> 2 year	

**Ontario Structure Inspection Manual - Inspection Form**

**Site Number:** 980502

**Element Data**

Element Group:	900 Abutments					Length:	18.2
Element Name:	903 Wingwalls					Width:	
Location:	East and West					Height:	
Material:	4 Cast-in-place Concrete					Count:	2
Element Type:						Total Quantity:	36.4 m
Environment:	Moderate					Limited Inspection:	
Protection System:	Unknown					Perform. Deficiencies	
Condition Data:	Units m	Exc. 0	Good 0	Fair 36.4	Poor 0		
Comments: Crack in NW wingwall to be monitored. Narrow vertical crack in Southeast wingwall to be monitored.							
Recommended Work: Rehab <input type="checkbox"/> Replace <input type="checkbox"/>					Maintenance Needs:		
Timing: Urgent <input type="checkbox"/> < 1yr <input type="checkbox"/> 1 - 5 yr <input type="checkbox"/> 6 - 10 yr <input type="checkbox"/>					<input type="checkbox"/> Urgent <input type="checkbox"/> 1 year <input type="checkbox"/> 2 year		

Element Group:	1600 Approaches					Length:	
Element Name:	1603 Approaches Drainage (app)					Width:	
Location:						Height:	
Material:						Count:	1
Element Type:						Total Quantity:	1 Each
Environment:						Limited Inspection:	
Protection System:	Unknown					Perform. Deficiencies	
Condition Data:	Units Each	Exc. 0	Good 1	Fair 0	Poor 0		
Comments:							
Recommended Work: Rehab <input type="checkbox"/> Replace <input type="checkbox"/>					Maintenance Needs:		
Timing: Urgent <input type="checkbox"/> < 1yr <input type="checkbox"/> 1 - 5 yr <input type="checkbox"/> 6 - 10 yr <input type="checkbox"/>					<input type="checkbox"/> Urgent <input type="checkbox"/> 1 year <input type="checkbox"/> 2 year		

Element Group:	100 Decks					Length:	14.4
Element Name:	101 Wearing Surface					Width:	18.2
Location:	Top of Deck					Height:	
Material:	2 Asphalt					Count:	1
Element Type:						Total Quantity:	262.1 sq.m
Environment:	Severe					Limited Inspection:	
Protection System:	Unknown					Perform. Deficiencies	
Condition Data:	Units sq.m	Exc. 0	Good 0	Fair 262.1	Poor 0		
Comments: 1-5 years new surface required. Asphalt requires rout and seal and patch at various location on approaches. No drains. New surface scheduled for 2016.							
Recommended Work: Rehab <input type="checkbox"/> Replace <input checked="" type="checkbox"/>					Maintenance Needs:		
Timing: Urgent <input type="checkbox"/> < 1yr <input type="checkbox"/> 1 - 5 yr <input checked="" type="checkbox"/> 6 - 10 yr <input type="checkbox"/>					<input type="checkbox"/> Urgent <input type="checkbox"/> 1 year <input type="checkbox"/> 2 year		

**Ontario Structure Inspection Manual - Inspection Form**

**Site Number:** 980502

**Element Data**

Element Group:		1600 Approaches				Length:		
Element Name:		1601 Wearing Surface (Approaches)				Width:		
Location:		Top of Approach				Height:		
Material:		2 Asphalt				Count:		1
Element Type:						Total Quantity:		1 Each
Environment:		Severe				Limited Inspection:		
Protection System:		Unknown				Perform. Deficiencies		
Condition	Units	Exc.	Good	Fair	Poor			
Data:	Each	0	1	0	0			
Comments:								
Rout, seal and patch asphalt surface. Asphalt seal replacement required.								
Recommended Work:				Maintenance Needs:				
Rehab <input type="checkbox"/> Replace <input checked="" type="checkbox"/>				Rout and Seal				
Timing: Urgent <input type="checkbox"/> < 1yr <input checked="" type="checkbox"/> 1 - 5 yr <input type="checkbox"/> 6 - 10 yr <input type="checkbox"/>				<input type="checkbox"/> Urgent <input checked="" type="checkbox"/> 1 year <input type="checkbox"/> 2 year				

Element Group:		400 Barriers				Length:		
Element Name:		401 Barrier/Parapet Walls				Width:		
Location:		All Quadrants				Height:		
Material:		4 Cast-in-place Concrete				Count:		1
Element Type:						Total Quantity:		1 Each
Environment:		Severe				Limited Inspection:		
Protection System:		Unknown				Perform. Deficiencies		
Condition	Units	Exc.	Good	Fair	Poor			
Data:	Each	0	1	0	0			
Comments:								
Hairline cracks.								
Recommended Work:				Maintenance Needs:				
Rehab <input type="checkbox"/> Replace <input checked="" type="checkbox"/>								
Timing: Urgent <input type="checkbox"/> < 1yr <input type="checkbox"/> 1 - 5 yr <input type="checkbox"/> 6 - 10 yr <input checked="" type="checkbox"/>				<input type="checkbox"/> Urgent <input type="checkbox"/> 1 year <input type="checkbox"/> 2 year				

Element Group:		400 Barriers				Length:		26.4
Element Name:		402 Railing System				Width:		
Location:						Height:		
Material:						Count:		2
Element Type:		4 Rail Metal Railing - Aluminum				Total Quantity:		52.8 m
Environment:		Severe				Limited Inspection:		
Protection System:		Unknown				Perform. Deficiencies		
Condition	Units	Exc.	Good	Fair	Poor			
Data:	m	0	52.8	0	0			
Comments:								
Includes: all rails-curved aluminum posts.								
Recommended Work:				Maintenance Needs:				
Rehab <input type="checkbox"/> Replace <input checked="" type="checkbox"/>								
Timing: Urgent <input type="checkbox"/> < 1yr <input type="checkbox"/> 1 - 5 yr <input type="checkbox"/> 6 - 10 yr <input checked="" type="checkbox"/>				<input type="checkbox"/> Urgent <input type="checkbox"/> 1 year <input type="checkbox"/> 2 year				

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**Element Data**

Element Group:	1102 Barriers					Length:	93.2
Element Name:	1133 Steel Beam Guide Rail (SBGR)					Width:	
Location:	All Quadrants					Height:	
Material:	Steel					Count:	1
Element Type:						Total Quantity:	93.2 m
Environment:	Severe					Limited Inspection:	
Protection System:	Unknown					Perform. Deficiencies	
Condition Data:	Units m	Exc. 0	Good 64.7	Fair 28.5	Poor 0		
Comments:							
Recommended Work: Rehab <input type="checkbox"/> Replace <input checked="" type="checkbox"/>						Maintenance Needs:	
Timing: Urgent <input type="checkbox"/> < 1yr <input type="checkbox"/> 1 - 5 yr <input checked="" type="checkbox"/> 6 - 10 yr <input type="checkbox"/>						<input type="checkbox"/> Urgent <input type="checkbox"/> 1 year <input type="checkbox"/> 2 year	

Element Group:	500 Beams/MLE's					Length:	
Element Name:	502 Floor Beams					Width:	
Location:	Below Deck					Height:	
Material:	14 Steel					Count:	6
Element Type:						Total Quantity:	6 Each
Environment:						Limited Inspection:	
Protection System:	Unknown					Perform. Deficiencies	
Condition Data:	Units Each	Exc. 0	Good 6	Fair 0	Poor 0		
Comments: Includes north part of I-beams, south part steel floor beams and steel diaphragms in north part, steel stringers and steel sidewalk overhang. Some floor beams have areas of small deformations in the top flanges. Minor surface corrosion throughout.							
Recommended Work: Rehab <input type="checkbox"/> Replace <input type="checkbox"/>						Maintenance Needs:	
Timing: Urgent <input type="checkbox"/> < 1yr <input type="checkbox"/> 1 - 5 yr <input type="checkbox"/> 6 - 10 yr <input type="checkbox"/>						<input type="checkbox"/> Urgent <input type="checkbox"/> 1 year <input type="checkbox"/> 2 year	

Element Group:	500 Beams/MLE's					Length:	
Element Name:	501 Girders					Width:	
Location:	On all Steel					Height:	
Material:						Count:	300
Element Type:						Total Quantity:	300 Each
Environment:	Moderate					Limited Inspection:	
Protection System:	None					Perform. Deficiencies	
Condition Data:	Units Each	Exc. 0	Good 250	Fair 50	Poor 0		
Comments: Coating survey required. Surface corrosion evident on some flanges and webs of girders. Corrosion of North exterior girder more advanced.							
Recommended Work: Rehab <input checked="" type="checkbox"/> Replace <input type="checkbox"/>						Maintenance Needs:	
Timing: Urgent <input type="checkbox"/> < 1yr <input type="checkbox"/> 1 - 5 yr <input type="checkbox"/> 6 - 10 yr <input checked="" type="checkbox"/>						<input type="checkbox"/> Urgent <input type="checkbox"/> 1 year <input type="checkbox"/> 2 year	



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**Element Data**

Element Group:		100 Decks				Length:		
Element Name:		104 Soffit - Thick Slab				Width:		
Location:		Between Beams				Height:		
Material:		4 Cast-in-place Concrete				Count:		1
Element Type:						Total Quantity:		1 Each
Environment:		Moderate				Limited Inspection:		
Protection System:		Unknown				Perform. Deficiencies		
Condition	Units	Exc.	Good	Fair	Poor			
Data:	Each	0	1	0	0			
Comments:								
Includes North and South fascia and soffit. Minor spall in North Expansion.								
Recommended Work:				Rehab <input type="checkbox"/>		Replace <input type="checkbox"/>		
Timing:				Urgent <input type="checkbox"/>		< 1yr <input type="checkbox"/>		
				1 - 5 yr <input type="checkbox"/>		6 - 10 yr <input type="checkbox"/>		
Maintenance Needs:				<input type="checkbox"/>		Urgent <input type="checkbox"/>		
				<input type="checkbox"/>		1 year <input type="checkbox"/>		
				<input type="checkbox"/>		2 year <input type="checkbox"/>		

Element Group:		1400 Embankments & Streams				Length:		
Element Name:		1401 Streams and Waterways				Width:		
Location:						Height:		
Material:						Count:		1
Element Type:						Total Quantity:		1 Each
Environment:		Moderate				Limited Inspection:		
Protection System:		Unknown				Perform. Deficiencies		
Condition	Units	Exc.	Good	Fair	Poor			
Data:	Each	0	0.75	0.25	0			
Comments:								
River banks protected with concrete. Masonry walls are good. Existing adjacent concrete rubble retaining wall adjacent to the Southwest quadrant is in fair condition.								
Recommended Work:				Rehab <input type="checkbox"/>		Replace <input type="checkbox"/>		
Timing:				Urgent <input type="checkbox"/>		< 1yr <input type="checkbox"/>		
				1 - 5 yr <input type="checkbox"/>		6 - 10 yr <input type="checkbox"/>		
Maintenance Needs:				<input type="checkbox"/>		Urgent <input type="checkbox"/>		
				<input type="checkbox"/>		1 year <input type="checkbox"/>		
				<input type="checkbox"/>		2 year <input type="checkbox"/>		

Element Group:		1300 Foundations				Length:		18.2
Element Name:		1301 Foundation (below ground level)				Width:		
Location:						Height:		
Material:						Count:		2
Element Type:						Total Quantity:		36.4 m
Environment:		Moderate				Limited Inspection:		
Protection System:		Unknown				Perform. Deficiencies		
Condition	Units	Exc.	Good	Fair	Poor			
Data:	m	0	18.2	18.2	0			
Comments:								
New pedestrian walkway cantilever off east foundation. West footing visible due to water conditions. East footing obstructed by walkway.								
Recommended Work:				Rehab <input type="checkbox"/>		Replace <input type="checkbox"/>		
Timing:				Urgent <input type="checkbox"/>		< 1yr <input type="checkbox"/>		
				1 - 5 yr <input type="checkbox"/>		6 - 10 yr <input type="checkbox"/>		
Maintenance Needs:				<input type="checkbox"/>		Urgent <input type="checkbox"/>		
				<input type="checkbox"/>		1 year <input type="checkbox"/>		
				<input type="checkbox"/>		2 year <input type="checkbox"/>		

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**Element Data**

Element Group:	200 Joints	Length:	14.3										
Element Name:	203 Armouring/retaining devices	Width:											
Location:	East and West	Height:											
Material:		Count:	2										
Element Type:		Total Quantity:	28.6 m										
Environment:	Severe	Limited Inspection:											
Protection System:	Unknown	Perform. Deficiencies											
Condition Data:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">Units</th> <th style="width: 10%;">Exc.</th> <th style="width: 10%;">Good</th> <th style="width: 10%;">Fair</th> <th style="width: 10%;">Poor</th> </tr> <tr> <td>m</td> <td>0</td> <td>0</td> <td>28.6</td> <td>0</td> </tr> </table>	Units	Exc.	Good	Fair	Poor	m	0	0	28.6	0		
Units	Exc.	Good	Fair	Poor									
m	0	0	28.6	0									
Comments: Road surface at joints need repair. East & West ends. Clean joints. Damaged armour angles at Southwest and Northeast. Exposed rubber seal at Southwest. Suspected snowplow damage.													
Recommended Work:    Rehab <input type="checkbox"/> Replace <input checked="" type="checkbox"/>		Maintenance Needs:    Bridge Cleaning, Joint Repair											
Timing:    Urgent <input type="checkbox"/> < 1yr <input type="checkbox"/> 1 - 5 yr <input checked="" type="checkbox"/> 6 - 10 yr <input type="checkbox"/>		<input type="checkbox"/> Urgent <input type="checkbox"/> 1 year <input checked="" type="checkbox"/> 2 year											

Element Group:	300 Sidewalks/curbs	Length:											
Element Name:	301 Sidewalk and Medians	Width:											
Location:	North and South	Height:											
Material:	4 Cast-in-place Concrete	Count:	2										
Element Type:		Total Quantity:	2 Each										
Environment:	Severe	Limited Inspection:											
Protection System:	Unknown	Perform. Deficiencies											
Condition Data:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">Units</th> <th style="width: 10%;">Exc.</th> <th style="width: 10%;">Good</th> <th style="width: 10%;">Fair</th> <th style="width: 10%;">Poor</th> </tr> <tr> <td>Each</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> </tr> </table>	Units	Exc.	Good	Fair	Poor	Each	0	2	0	0		
Units	Exc.	Good	Fair	Poor									
Each	0	2	0	0									
Comments: Includes inside face and 4 end posts. Low clearance signs for pedestrian walkway removed. Some deterioration of curbs.													
Recommended Work:    Rehab <input type="checkbox"/> Replace <input type="checkbox"/>		Maintenance Needs:											
Timing:    Urgent <input type="checkbox"/> < 1yr <input type="checkbox"/> 1 - 5 yr <input type="checkbox"/> 6 - 10 yr <input type="checkbox"/>		<input type="checkbox"/> Urgent <input type="checkbox"/> 1 year <input type="checkbox"/> 2 year											



Figure 1 North Approach



Figure 2 South Approach





Figure 3 East Profile, Outlet



Figure 4 West Profile, Inlet





Figure 5 Upstream



Figure 6 Downstream





Figure 7 North Barrel



Figure 8 South Barrel



Figure 9 Small Longitudinal Cracks in Wearing Surface at Centreline



Figure 10 Minor Erosion at Northeast Quadrant