

Inventory Data:

Structure Name	<input type="text" value="C110"/>		
Main Hwy/Road #	<input type="text" value="CPR Drive"/>	On <input checked="" type="checkbox"/> Under <input type="checkbox"/>	Crossing Type: Navig. Water <input type="checkbox"/> Rail <input type="checkbox"/> Non-Navig. Road <input type="checkbox"/> Ped. <input checked="" type="checkbox"/> Other <input type="checkbox"/>
Structure Location	<input type="text" value="1.0km West of DunDonald Road Lot 2 Con. 3&4"/>		
Latitude	<input type="text" value="4734168.3"/>	Longitude	<input type="text" value="439398.7"/>
Owners	<input type="text" value="Mun. of Southwest Middlesex"/>	Heritage Designation	Not Consid: <input checked="" type="checkbox"/> Cons/nt. App. <input type="checkbox"/> List/n.d. <input type="checkbox"/> Desig./not list <input type="checkbox"/> Desig & List <input type="checkbox"/>
MTO region	<input type="text" value="South-Western"/>	Road Class:	Freeway <input type="checkbox"/> Arterial <input type="checkbox"/> Collector <input checked="" type="checkbox"/> Local <input type="checkbox"/>
MTO District	<input type="text" value="2"/>	Posted Speed	<input type="text"/> No. of Lanes <input type="text" value="2"/>
Old County	<input type="text" value="Middlesex"/>	AADT	<input type="text"/> % Trucks <input type="text"/>
Geographic Twp.	<input type="text" value="Mosa"/>	Inspection Route Sequence	<input type="text"/>
Structure Type	<input type="text" value="Concrete Rigid Frame Culvert"/>	Interchange Number	<input type="text"/>
Total Culvert Length	<input type="text" value="9.6"/> m	Interchange Structure Number	<input type="text"/>
Platform Width	<input type="text" value="9"/> m	Min. Vertical Clearance	<input type="text"/> m
Culvert Height	<input type="text" value="1.1"/> m	Special Routes:	Transit <input type="checkbox"/> School <input type="checkbox"/> Truck <input type="checkbox"/> Bicycle <input type="checkbox"/>
Roadway Width	<input type="text" value="6.7"/> m	Detour Length Around Bridge	<input type="text"/> km
Skew Angle	<input type="text" value="0"/> Degrees	Direction of Structure	<input type="text"/>
No. of Spans	<input type="text" value="1"/>	Fill on Structure	<input type="text" value="0.2"/> m
Span Lengths	<input type="text" value="3.05"/> m		

Historical Data:

Year Built	<input type="text" value="unknown"/>	Last Evaluation	<input type="text"/>
Last Biennial Inspection	<input type="text" value="2021"/>	Current Load Limit	<input type="text"/> tonnes
Last Bridge Master Inspection	<input type="text"/>	Load Limit By-Law #	<input type="text"/>
Last Condition Survey	<input type="text"/>	By-Law Expiry Date	<input type="text"/>
Last Underwater Inspection	<input type="text"/>		

Rehab History: (Date / Description)

Field Inspection Information:

Date of Inspection:	October. 27, 2023
Inspector:	B. Widner
Others in Party:	
Equipment Used:	
Weather:	sunny
Temperature:	20 degrees celsius

Additional Investigations Required:

	Priority		
	None	Normal	Urgent
Detailed Deck Condition Survey:	x		
Non-Destructive Delamination Survey of Asphalt-Covered Deck:	x		
Substructure Condition Survey:	x		
Detailed Coating Condition Survey:	x		
Underwater Investigation:	x		
Fatigue Investigation:	x		
Seismic Investigation:	x		
Structure Evaluation	x		
Monitoring of Deformations, Settlements and Movements	x		
Special Notes:			
Next Detailed Visual Inspection:	Oct. 2025		

Element Data

Element Group:	Culverts	Length:	9.6		
Element Name:	Barrel	Width:	3.05		
Location:		Height:	1.1		
Material:	Concrete	Count:			
Element Type:	Cast in Place Concrete R. Frame	Total Quantity:	1		
Environment:		Not Inspected:			
Protection System:					Perform. Maint.
Condition	Units	Exc.	Good	Fair	Poor
Data:	sq. m / m / each / % / all			all	
Comments: Some concrete deterioration on southwest side, north and north west sides - repair					
Recommended Work: None: <input type="text"/> 1 - 5 years <input checked="" type="text"/> <1 year <input type="text"/> Urgent: <input type="text"/>					

Element Group:	Inlet Components	Length:	7.9		
Element Name:	Wingwalls & Headwalls	Width:	0.3		
Location:		Height:			
Material:	Concrete	Count:			
Element Type:	Cast in Place	Total Quantity:			
Environment:		Not Inspected:			
Protection System:					Perform. Maint.
Condition	Units	Exc.	Good	Fair	Poor
Data:	sq. m / m / each / % / all			all	
Comments: Some concrete deterioration - repair					
Recommended Work: None: <input type="text"/> 1 - 5 years <input checked="" type="text"/> <1 year <input type="text"/> Urgent: <input type="text"/>					

Element Group:	Outlet Components	Length:	7.9		
Element Name:	Wingwalls & Headwalls	Width:	0.3		
Location:		Height:			
Material:	Concrete	Count:			
Element Type:	Broken Concrete	Total Quantity:			
Environment:		Not Inspected:			
Protection System:					Perform. Maint.
Condition	Units	Exc.	Good	Fair	Poor
Data:	sq. m / m / each / % / all			all	
Comments: Some concrete deterioration - repair (see photo)					
Recommended Work: None: <input type="text"/> 1 - 5 years <input checked="" type="text"/> <1 year <input type="text"/> Urgent: <input type="text"/>					

Element Data

Element Group:	Wearing Surfaces		Length:				
Element Name:			Width:	6.7			
Location:			Height:				
Material:	Gravel		Count:				
Element Type:			Total Quantity:				
Environment:			Not Inspected:	x			
Protection System:						Perform.	Maint.
Condition	Units	Exc.	Good	Fair	Poor	Deficiencies	Needs
Data:	sq. m / m / each / % / all						
Comments:							
Recommended Work: None: <input type="text"/> 1 - 5 years <input type="text"/> <1 year <input type="text"/> Urgent: <input type="text"/>							

Element Group:	Embankments & Streams		Length:				
Element Name:	Embankments		Width:				
Location:			Height:	1.4			
Material:	Earth		Count:				
Element Type:			Total Quantity:				
Environment:			Not Inspected:				
Protection System:						Perform.	Maint.
Condition	Units	Exc.	Good	Fair	Poor	Deficiencies	Needs
Data:	sq. m / m / each / % / all		all				
Comments:							
Recommended Work: None: <input type="text"/> x 1 - 5 years <input type="text"/> <1 year <input type="text"/> Urgent: <input type="text"/>							

Element Group:	Embankments & Streams		Length:				
Element Name:	Streams		Width:				
Location:			Height:				
Material:			Count:				
Element Type:			Total Quantity:				
Environment:			Not Inspected:				
Protection System:						Perform.	Maint.
Condition	Units	Exc.	Good	Fair	Poor	Deficiencies	Needs
Data:	sq. m / m / each / % / all		all				
Comments:							
Recommended Work: None: <input type="text"/> x 1 - 5 years <input type="text"/> <1 year <input type="text"/> Urgent: <input type="text"/>							

Element Data

Element Group:	Signs		Length:		
Element Name:			Width:		
Location:	End Markers		Height:		
Material:			Count:		
Element Type:			Total Quantity:	4	
Environment:			Not Inspected:		
Protection System:					Perform. Maint.
Condition	Units	Exc.	Good	Fair	Poor
Data:	sq. m / m / each / % / all		all		
Comments:					
Recommended Work:					
	None:	<input checked="" type="checkbox"/>	1 - 5 years	<input type="text"/>	<1 year
	Urgent:	<input type="checkbox"/>			

Element Group:			Length:		
Element Name:			Width:		
Location:			Height:		
Material:			Count:		
Element Type:			Total Quantity:		
Environment:			Not Inspected:		
Protection System:					Perform. Maint.
Condition	Units	Exc.	Good	Fair	Poor
Data:	sq. m / m / each / % / all				
Comments:					
Recommended Work:					
	None:	<input type="checkbox"/>	1 - 5 years	<input type="text"/>	<1 year
	Urgent:	<input type="checkbox"/>			

Element Group:			Length:		
Element Name:			Width:		
Location:			Height:		
Material:			Count:		
Element Type:			Total Quantity:		
Environment:			Not Inspected:		
Protection System:					Perform. Maint.
Condition	Units	Exc.	Good	Fair	Poor
Data:	sq. m / m / each / % / all				
Comments:					
Recommended Work:					
	None:	<input type="checkbox"/>	1 - 5 years	<input type="text"/>	<1 year
	Urgent:	<input type="checkbox"/>			



Road Section - West View



Inlet



Barrel



Outlet



Concrete Deterioration on Outlet Side



Concrete Deterioration on Outlet Side - Alternate View



Concrete Deterioration on Top of Headwall



Concrete Deterioration on Southwest Corner



Concrete Deterioration on Norththwest Corner

Municipal Structure Inspection Manual - Inspection Form

MTO Site Number -

Repair Rehabilitation Required		Priority			Estimated Construction Cost
Element	Repair and Rehabilitation Required	1 to 5 years	Within 1 year	Urgent	
Wingwalls, Headwalls... Curbs	Concrete Repairs	x			28000
Total Cost					\$28,000

Associated Work	Comments	Estimated Cost
Approaches		
Detours		
Traffic Control		
Utilities		
Right of Way		
Environmental study		
Other		
Contingencies		
Total Cost		\$0

Justification

Inventory Data:

Structure Name	C111		
Main Hwy/Road #	CPR Drive	On <input checked="" type="checkbox"/> Under <input type="checkbox"/>	Crossing Type: Navig. Water <input type="checkbox"/> Rail <input type="checkbox"/> Non-Navig. Road <input checked="" type="checkbox"/> Ped. <input type="checkbox"/> Other <input type="checkbox"/>
Structure Location	1.1km West of Big Bend Road Lot 14 Con 3&4		
Latitude	4728722.4	Longitude	434323.2
Owners	Mun. of Southwest Middlesex	Heritage Designation	Not Consid: <input checked="" type="checkbox"/> Cons/nt. App. <input type="checkbox"/> List/n.d. <input type="checkbox"/> Desig./not list <input type="checkbox"/> Desig & List <input type="checkbox"/>
MTO region	South-Western	Road Class:	Freeway <input type="checkbox"/> Collector <input type="checkbox"/> Arterial <input type="checkbox"/> Local <input checked="" type="checkbox"/>
MTO District	2	Posted Speed	No. of Lanes 2
Old County	Middlesex	AADT	% Trucks
Geographic Twp.	Mosa	Inspection Route Sequence	
Structure Type	Concrete Rigid Frame Culvert	Interchange Number	
Total Culvert Length	9.8 m	Interchange Structure Number	
Platform Width	9 m	Min. Vertical Clearance	m
Culvert Height	1.8 m	Special Routes:	Transit School <input type="checkbox"/> Truck Bicycle <input type="checkbox"/>
Roadway Width	6.6 m	Detour Length Around Bridge	km
Skew Angle	0 Degrees	Direction of Structure	
No. of Spans	1	Fill on Structure	0.4 m
Span Lengths	2.43 m		

Historical Data:

Year Built	unknown	Last Evaluation	
Last Biennial Inspection	2021	Current Load Limit	tonnes
Last Bridge Master Inspection		Load Limit By-Law #	
Last Condition Survey		By-Law Expiry Date	
Last Underwater Inspection			

Rehab History: (Date / Description)

Field Inspection Information:

Date of Inspection:	October. 27, 2023
Inspector:	B. Widner
Others in Party:	
Equipment Used:	
Weather:	sunny
Temperature:	20 degrees celsius

Additional Investigations Required:

	Priority		
	None	Normal	Urgent
Detailed Deck Condition Survey:	x		
Non-Destructive Delamination Survey of Asphalt-Covered Deck:	x		
Substructure Condition Survey:	x		
Detailed Coating Condition Survey:	x		
Underwater Investigation:	x		
Fatigue Investigation:	x		
Seismic Investigation:	x		
Structure Evaluation	x		
Monitoring of Deformations, Settlements and Movements	x		
Special Notes:			
Next Detailed Visual Inspection:	Oct. 2025		

Element Group:	Culverts	Length:	9.8				
Element Name:	Barrel	Width:	2.43				
Location:		Height:	1.8				
Material:	Concrete	Count:					
Element Type:	Cast in Place Concrete R. Frame	Total Quantity:	1				
Environment:		Not Inspected:					
Protection System:							
Condition	Units	Exc.	Good	Fair	Poor	Perform.	Maint.
Data:	sq. m / m / each / % / all		all			Deficiencies	Needs
Comments:							
Some concrete deterioration on barriers - repair							
Recommended Work:	None:		1 - 5 years	x	<1 year		
	Urgent:						

Element Group:		Inlet Components		Length:		7.7		
Element Name:		Wingwalls & Headwalls		Width:		0.3		
Location:				Height:				
Material:		Concrete		Count:				
Element Type:		Cast in Place		Total Quantity:				
Environment:				Not Inspected:				
Protection System:							Perform.	Maint.
Condition Data:	Units	Exc.	Good	Fair	Poor	Deficiencies	Needs	
	sq. m / m / each / % / all		all					
Comments: Minor deterioration on headwall								
Recommended Work:		None:	x	1 - 5 years		<1 year		
		Urgent:						

Element Group:	Outlet Components	Length:	7.7
Element Name:	Wingwalls & Headwalls	Width:	0.3
Location:		Height:	
Material:	Concrete	Count:	
Element Type:	Cast in Place	Total Quantity:	
Environment:		Not Inspected:	
Protection System:			
Condition	Units	Exc.	Good
Data:	sq. m / m / each / % / all	all	
Comments:			
Recommended Work:	None:	x	1 - 5 years
	Urgent:		<1 year

Element Data

Element Group:	Wearing Surfaces		Length:				
Element Name:			Width:	6.6			
Location:			Height:				
Material:	Gravel		Count:				
Element Type:			Total Quantity:				
Environment:			Not Inspected:	x			
Protection System:						Perform.	Maint.
Condition	Units	Exc.	Good	Fair	Poor	Deficiencies	Needs
Data:	sq. m / m / each / % / all						
Comments:							
Recommended Work:							
None:		<input type="text"/>	1 - 5 years	<input type="text"/>	<1 year	<input type="text"/>	
Urgent:		<input type="text"/>					

Element Group:	Embankments & Streams		Length:				
Element Name:	Embankments		Width:				
Location:			Height:	2.3			
Material:	Earth		Count:				
Element Type:			Total Quantity:				
Environment:			Not Inspected:				
Protection System:						Perform.	Maint.
Condition	Units	Exc.	Good	Fair	Poor	Deficiencies	Needs
Data:	sq. m / m / each / % / all		all				
Comments:							
Recommended Work:							
None:		x <input type="text"/>	1 - 5 years	<input type="text"/>	<1 year	<input type="text"/>	
Urgent:		<input type="text"/>					

Element Group:	Embankments & Streams		Length:				
Element Name:	Streams		Width:				
Location:			Height:				
Material:			Count:				
Element Type:			Total Quantity:				
Environment:			Not Inspected:				
Protection System:						Perform.	Maint.
Condition	Units	Exc.	Good	Fair	Poor	Deficiencies	Needs
Data:	sq. m / m / each / % / all		all				
Comments:							
Recommended Work:							
None:		x <input type="text"/>	1 - 5 years	<input type="text"/>	<1 year	<input type="text"/>	
Urgent:		<input type="text"/>					

Element Data

Element Group:	Signs		Length:		
Element Name:			Width:		
Location:	End Markers		Height:		
Material:			Count:		
Element Type:			Total Quantity:	4	
Environment:			Not Inspected:		
Protection System:					
Condition	Units	Exc.	Good	Fair	Poor
Data:	sq. m / m / each / % / all			all	
Perform. Deficiencies					
Maint. Needs					
Comments:					
Signs are crooked and need to be straightened.					
Recommended Work:	None:	<input type="text"/>	1 - 5 years	<input checked="" type="checkbox"/>	<1 year
	Urgent:	<input type="text"/>			

Element Group:			Length:		
Element Name:			Width:		
Location:			Height:		
Material:			Count:		
Element Type:			Total Quantity:		
Environment:			Not Inspected:		
Protection System:					
Condition	Units	Exc.	Good	Fair	Poor
Data:	sq. m / m / each / % / all				
Perform. Deficiencies					
Maint. Needs					
Comments:					
Recommended Work:	None:	<input type="text"/>	1 - 5 years	<input type="text"/>	<1 year
	Urgent:	<input type="text"/>			

Element Group:			Length:		
Element Name:			Width:		
Location:			Height:		
Material:			Count:		
Element Type:			Total Quantity:		
Environment:			Not Inspected:		
Protection System:					
Condition	Units	Exc.	Good	Fair	Poor
Data:	sq. m / m / each / % / all				
Perform. Deficiencies					
Maint. Needs					
Comments:					
Recommended Work:	None:	<input type="text"/>	1 - 5 years	<input type="text"/>	<1 year
	Urgent:	<input type="text"/>			



Road Section - East View



Inlet



Barrel



Outlet



Concrete Deterioration



Concrete Deterioration - Alternate View



Minor Cracking and Deterioration on South Headwall

Municipal Structure Inspection Manual - Inspection Form

MTO Site Number

Repair Rehabilitation Required		Priority			Estimated Construction Cost
Element	Repair and Rehabilitation Required	1 to 5 years	Within 1 year	Urgent	
Signs	Straighten them to proper position	x			500
Structure	Some concrete deterioration on barrier walls - repair	x			10000
Total Cost					\$10,500

Associated Work	Comments	Estimated Cost
Approaches		
Detours		
Traffic Control		
Utilities		
Right of Way		
Environmental study		
Other		
Contingencies		
Total Cost		\$0

Justification

Inventory Data:

Structure Name	<input type="text" value="C119"/>		
Main Hwy/Road #	<input type="text" value="Knapdale Drive"/>	On <input checked="" type="checkbox"/> Under <input type="checkbox"/>	Crossing Type: Navig. Water <input type="checkbox"/> Rail <input type="checkbox"/> Non-Navig. Road <input type="checkbox"/> Ped. <input checked="" type="checkbox"/> Other <input type="checkbox"/>
Structure Location	<input type="text" value="1.8km West of DunDonald Road Lot 3 Con 4&5"/>		
Latitude	<input type="text" value="4734555.1"/>	Longitude	<input type="text" value="437916.5"/>
Owners	<input type="text" value="Mun. of Southwest Middlesex"/>	Heritage Designation	Not Consid: <input checked="" type="checkbox"/> Cons/nt. App. <input type="checkbox"/> List/n.d. <input type="checkbox"/> Desig./not list <input type="checkbox"/> Desig & List <input type="checkbox"/>
MTO region	<input type="text" value="South-Western"/>	Road Class: Freeway <input type="checkbox"/> Collector <input checked="" type="checkbox"/>	Arterial <input type="checkbox"/> Local <input type="checkbox"/>
MTO District	<input type="text" value="2"/>	Posted Speed	<input type="text"/> No. of Lanes <input type="text" value="2"/>
Old County	<input type="text" value="Middlesex"/>	AADT	<input type="text"/> % Trucks <input type="text"/>
Geographic Twp.	<input type="text" value="Mosa"/>	Inspection Route Sequence	<input type="text"/>
Structure Type	<input type="text" value="Concrete Rigid Frame Culvert"/>	Interchange Number	<input type="text"/>
Total Culvert Length	<input type="text" value="18"/> m	Interchange Structure Number	<input type="text"/>
Platform Width	<input type="text" value="8.9"/> m	Min. Vertical Clearance	<input type="text"/> m
Culvert Height	<input type="text" value="2.43"/> m	Special Routes: Transit <input type="checkbox"/> School <input type="checkbox"/>	Truck <input type="checkbox"/> Bicycle <input type="checkbox"/>
Roadway Width	<input type="text" value="6.9"/> m	Detour Length Around Bridge	<input type="text"/> km
Skew Angle	<input type="text" value="0"/> Degrees	Direction of Structure	<input type="text"/>
No. of Spans	<input type="text" value="1"/>	Fill on Structure	<input type="text" value="0.1"/> m
Span Lengths	<input type="text" value="5.48"/> m		

Historical Data:

Year Built	<input type="text" value="1986"/>	Last Evaluation	<input type="text"/>
Last Biennial Inspection	<input type="text" value="2021"/>	Current Load Limit	<input type="text"/> tonnes
Last Bridge Master Inspection	<input type="text"/>	Load Limit By-Law #	<input type="text"/>
Last Condition Survey	<input type="text"/>	By-Law Expiry Date	<input type="text"/>
Last Underwater Inspection	<input type="text"/>		

Rehab History: (Date / Description)

Field Inspection Information:	
Date of Inspection:	October. 27, 2023
Inspector:	B. Widner
Others in Party:	
Equipment Used:	
Weather:	sunny
Temperature:	20 degrees celsius

Additional Investigations Required:	Priority		
	None	Normal	Urgent
Detailed Deck Condition Survey:	x		
Non-Destructive Delamination Survey of Asphalt-Covered Deck:	x		
Substructure Condition Survey:	x		
Detailed Coating Condition Survey:	x		
Underwater Investigation:	x		
Fatigue Investigation:	x		
Seismic Investigation:	x		
Structure Evaluation	x		
Monitoring of Deformations, Settlements and Movements	x		
Special Notes:			
Next Detailed Visual Inspection:	Oct. 2025		

Element Data

Element Group:	Culverts	Length:	18			
Element Name:	Barrel	Width:	5.48			
Location:		Height:	2.43			
Material:	Concrete	Count:				
Element Type:	Cast in Place Concrete R. Frame	Total Quantity:	1			
Environment:		Not Inspected:				
Protection System:					Perform. Maint.	
Condition	Units	Exc.	Good	Fair	Poor	Deficiencies Needs
Data:	sq. m / m / each / % / all	all				
Comments:						
Recommended Work: None: <input checked="" type="checkbox"/> 1 - 5 years <input type="checkbox"/> <1 year <input type="checkbox"/>						
Urgent: <input type="checkbox"/>						

Element Group:	Inlet Components	Length:				
Element Name:	Wingwalls	Width:				
Location:		Height:				
Material:	Concrete	Count:				
Element Type:	Broken Concrete	Total Quantity:				
Environment:		Not Inspected:				
Protection System:					Perform. Maint.	
Condition	Units	Exc.	Good	Fair	Poor	Deficiencies Needs
Data:	sq. m / m / each / % / all				all	
Comments: Wingwalls requires repair due to poor conditions.						
Recommended Work: None: <input type="checkbox"/> 1 - 5 years <input checked="" type="checkbox"/> <1 year <input type="checkbox"/>						
Urgent: <input type="checkbox"/>						

Element Group:	Outlet Components	Length:				
Element Name:	Wingwalls	Width:				
Location:		Height:				
Material:	Concrete	Count:				
Element Type:	Broken Concrete	Total Quantity:				
Environment:		Not Inspected:				
Protection System:					Perform. Maint.	
Condition	Units	Exc.	Good	Fair	Poor	Deficiencies Needs
Data:	sq. m / m / each / % / all			all		
Comments:						
Recommended Work: None: <input checked="" type="checkbox"/> 1 - 5 years <input type="checkbox"/> <1 year <input type="checkbox"/>						
Urgent: <input type="checkbox"/>						

Element Data

Element Group:	Wearing Surfaces		Length:				
Element Name:			Width:	6.9			
Location:			Height:				
Material:	Gravel		Count:				
Element Type:			Total Quantity:				
Environment:			Not Inspected:	x			
Protection System:							Perform. Maint.
Condition	Units	Exc.	Good	Fair	Poor	Deficiencies	Needs
Data:	sq. m / m / each / % / all						
Comments:							
Recommended Work:							
	None:	<input checked="" type="checkbox"/>	1 - 5 years	<input type="checkbox"/>	<1 year	<input type="checkbox"/>	
	Urgent:	<input type="checkbox"/>					

Element Group:	Embankments & Streams		Length:				
Element Name:	Embankments		Width:				
Location:			Height:	2.5			
Material:	Earth		Count:				
Element Type:			Total Quantity:				
Environment:			Not Inspected:				
Protection System:							Perform. Maint.
Condition	Units	Exc.	Good	Fair	Poor	Deficiencies	Needs
Data:	sq. m / m / each / % / all		all				
Comments:							
Recommended Work:							
	None:	<input checked="" type="checkbox"/>	1 - 5 years	<input type="checkbox"/>	<1 year	<input type="checkbox"/>	
	Urgent:	<input type="checkbox"/>					

Element Group:	Embankments & Streams		Length:				
Element Name:	Streams		Width:				
Location:			Height:				
Material:			Count:				
Element Type:			Total Quantity:				
Environment:			Not Inspected:				
Protection System:							Perform. Maint.
Condition	Units	Exc.	Good	Fair	Poor	Deficiencies	Needs
Data:	sq. m / m / each / % / all		all				
Comments:							
Recommended Work:							
	None:	<input checked="" type="checkbox"/>	1 - 5 years	<input type="checkbox"/>	<1 year	<input type="checkbox"/>	
	Urgent:	<input type="checkbox"/>					



Road Section - West View



Inlet



Barrel



Outlet



Wingwall Requiring Repair



Wingwall Requiring Repair - Altenate View

Municipal Structure Inspection Manual - Inspection Form

MTO Site Number -

Repair Rehabilitation Required		Priority			Estimated Construction Cost
Element	Repair and Rehabilitation Required	1 to 5 years	Within 1 year	Urgent	
Wingwalls	Repair all wingwalls	x			28000
Total Cost					\$28,000

Associated Work	Comments	Estimated Cost
Approaches		
Detours		
Traffic Control		
Utilities		
Right of Way		
Enviromental study		
Other		
Contigencies		
Total Cost		\$0

Justification

Inventory Data:

Structure Name	<input type="text" value="C126"/>		
Main Hwy/Road #	<input type="text" value="Argyll Drive"/>	On <input checked="" type="checkbox"/> Under <input type="checkbox"/>	Crossing Type: Navig. Water <input type="checkbox"/> Rail <input type="checkbox"/> Non-Navig. Road <input type="checkbox"/> Ped. <input checked="" type="checkbox"/> Other <input type="checkbox"/>
Structure Location	<input type="text" value="1.8km East of DunDonald Road Lot 3 Con 6&7"/>		
Latitude	<input type="text" value="4736528.6"/>	Longitude	<input type="text" value="436047"/>
Owners	<input type="text" value="Mun. of Southwest Middlesex"/>	Heritage Designation	Not Consid: <input checked="" type="checkbox"/> Cons/nt. App. <input type="checkbox"/> List/n.d. <input type="checkbox"/> Desig./not list <input type="checkbox"/> Desig & List <input type="checkbox"/>
MTO region	<input type="text" value="South-Western"/>	Road Class: Freeway <input type="checkbox"/> Collector <input checked="" type="checkbox"/>	Arterial <input type="checkbox"/> Local <input type="checkbox"/>
MTO District	<input type="text" value="2"/>	Posted Speed	<input type="text"/> No. of Lanes <input type="text" value="2"/>
Old County	<input type="text" value="Middlesex"/>	AADT	<input type="text"/> % Trucks <input type="text"/>
Geographic Twp.	<input type="text" value="Mosa"/>	Inspection Route Sequence	<input type="text"/>
Structure Type	<input type="text" value="Concrete Rigid Frame Culvert"/>	Interchange Number	<input type="text"/>
Total Culvert Length	<input type="text" value="18"/> m	Interchange Structure Number	<input type="text"/>
Platform Width	<input type="text" value="8.9"/> m	Min. Vertical Clearance	<input type="text"/> m
Culvert Height	<input type="text" value="1.85"/> m	Special Routes: Transit <input type="checkbox"/> School <input type="checkbox"/>	Truck <input type="checkbox"/> Bicycle <input type="checkbox"/>
Roadway Width	<input type="text" value="6.1"/> m	Detour Length Around Bridge	<input type="text"/> km
Skew Angle	<input type="text" value="30"/> Degrees	Direction of Structure	<input type="text"/>
No. of Spans	<input type="text" value="1"/>	Fill on Structure	<input type="text" value="0.2"/> m
Span Lengths	<input type="text" value="4.26"/> m		

Historical Data:

Year Built	<input type="text" value="1987"/>	Last Evaluation	<input type="text"/>
Last Biennial Inspection	<input type="text" value="2021"/>	Current Load Limit	<input type="text"/> tonnes
Last Bridge Master Inspection	<input type="text"/>	Load Limit By-Law #	<input type="text"/>
Last Condition Survey	<input type="text"/>	By-Law Expiry Date	<input type="text"/>
Last Underwater Inspection	<input type="text"/>		

Rehab History: (Date / Description)

Field Inspection Information:	
Date of Inspection:	October. 27, 2023
Inspector:	B. Widner
Others in Party:	
Equipment Used:	
Weather:	sunny
Temperature:	20 degrees celsius

Additional Investigations Required:	Priority		
	None	Normal	Urgent
Detailed Deck Condition Survey:	x		
Non-Destructive Delamination Survey of Asphalt-Covered Deck:	x		
Substructure Condition Survey:	x		
Detailed Coating Condition Survey:	x		
Underwater Investigation:	x		
Fatigue Investigation:	x		
Seismic Investigation:	x		
Structure Evaluation	x		
Monitoring of Deformations, Settlements and Movements	x		
Special Notes:			
Next Detailed Visual Inspection:		Oct. 2025	

Element Data

Element Group:	Culverts	Length:	18
Element Name:	Barrel	Width:	4.26
Location:		Height:	1.85
Material:	Concrete	Count:	
Element Type:	Cast in Place Concrete R. Frame	Total Quantity:	1
Environment:		Not Inspected:	
Protection System:			Perform. Maint.
Condition	Units	Exc.	Good Fair Poor
Data:	sq. m / m / each / % / all	all	Deficiencies Needs
Comments:			
Recommended Work: None: <input checked="" type="checkbox"/> 1 - 5 years <input type="checkbox"/> <1 year <input type="checkbox"/>			
Urgent: <input type="checkbox"/>			

Element Group:	Inlet Components	Length:	
Element Name:	Wingwalls	Width:	
Location:		Height:	
Material:		Count:	
Element Type:		Total Quantity:	
Environment:		Not Inspected:	
Protection System:			Perform. Maint.
Condition	Units	Exc.	Good Fair Poor
Data:	sq. m / m / each / % / all		Deficiencies Needs
Comments:			
None			
Recommended Work: None: <input type="checkbox"/> 1 - 5 years <input type="checkbox"/> <1 year <input type="checkbox"/>			
Urgent: <input type="checkbox"/>			

Element Group:	Outlet Components	Length:	
Element Name:	Wingwalls	Width:	
Location:		Height:	
Material:		Count:	
Element Type:		Total Quantity:	
Environment:		Not Inspected:	
Protection System:			Perform. Maint.
Condition	Units	Exc.	Good Fair Poor
Data:	sq. m / m / each / % / all		Deficiencies Needs
Comments:			
None			
Recommended Work: None: <input type="checkbox"/> 1 - 5 years <input type="checkbox"/> <1 year <input type="checkbox"/>			
Urgent: <input type="checkbox"/>			

Element Data

Element Group:	Wearing Surfaces		Length:		
Element Name:			Width:	6.1	
Location:			Height:		
Material:	Gravel		Count:		
Element Type:			Total Quantity:		
Environment:			Not Inspected:	x	
Protection System:					
Condition	Units	Exc.	Good	Fair	Poor
Data:	sq. m / m / each / % / all				
Perform. Deficiencies					
Maint. Needs					
Comments:					
Recommended Work:					
None: <input type="text"/>					
Urgent: <input type="text"/>					
1 - 5 years <input type="text"/>					
<1 year <input type="text"/>					

Element Group:	Embankments & Streams		Length:		
Element Name:	Embankments		Width:		
Location:			Height:	2.2	
Material:	Earth		Count:		
Element Type:			Total Quantity:		
Environment:			Not Inspected:		
Protection System:					
Condition	Units	Exc.	Good	Fair	Poor
Data:	sq. m / m / each / % / all			all	
Perform. Deficiencies					
Maint. Needs					
Comments:					
Erosion present on northwest and southwest corners - repair					
Recommended Work:					
None: <input type="text"/>					
Urgent: <input type="text"/>					
1 - 5 years <input checked="" type="text"/>					
<1 year <input type="text"/>					

Element Group:	Embankments & Streams		Length:		
Element Name:	Streams		Width:		
Location:			Height:		
Material:			Count:		
Element Type:			Total Quantity:		
Environment:			Not Inspected:		
Protection System:					
Condition	Units	Exc.	Good	Fair	Poor
Data:	sq. m / m / each / % / all		all		
Perform. Deficiencies					
Maint. Needs					
Comments:					
Recommended Work:					
None: <input checked="" type="text"/>					
Urgent: <input type="text"/>					
1 - 5 years <input type="text"/>					
<1 year <input type="text"/>					

Element Data

Element Group:	Guardrails	Length:	
Element Name:	End Treatments	Width:	
Location:		Height:	
Material:		Count:	
Element Type:		Total Quantity:	
Environment:		Not Inspected:	
Protection System:			Perform. Maint.
Condition	Units	Exc.	Good Fair Poor
Data:	sq. m / m / each / % / all		Deficiencies Needs
Comments:			
Recommended Work: None: <input type="text"/> 1 - 5 years <input type="text"/> <1 year <input type="text"/>			
Urgent: <input type="text"/>			

Element Group:	Signs	Length:	
Element Name:	End Markers	Width:	
Location:		Height:	
Material:		Count:	
Element Type:		Total Quantity:	
Environment:		Not Inspected:	
Protection System:			Perform. Maint.
Condition	Units	Exc.	Good Fair Poor
Data:	sq. m / m / each / % / all		all
Comments:			
None are present. Install.			
Recommended Work: None: <input type="text"/> 1 - 5 years <input checked="" type="text"/> <1 year <input type="text"/>			
Urgent: <input type="text"/>			

Element Group:		Length:	
Element Name:		Width:	
Location:		Height:	
Material:		Count:	
Element Type:		Total Quantity:	
Environment:		Not Inspected:	
Protection System:			Perform. Maint.
Condition	Units	Exc.	Good Fair Poor
Data:	sq. m / m / each / % / all		Deficiencies Needs
Comments:			
Recommended Work: None: <input type="text"/> 1 - 5 years <input type="text"/> <1 year <input type="text"/>			
Urgent: <input type="text"/>			



Road Section - West View



Inlet



Barrel



Outlet



View of Erosion on Northwest Corner



View of Erosion on Southwest Corner

Repair Rehabilitation Required		Priority			Estimated Construction Cost
Element	Repair and Rehabilitation Required	1 to 5 years	Within 1 year	Urgent	
Embankments	Erosion on northwest and southwest corners - repair	x			13000
Total Cost					\$13,000

Associated Work	Comments	Estimated Cost
Approaches	Install 4 end markers	1000
Detours		
Traffic Control		
Utilities		
Right of Way		
Environmental study		
Other		
Contingencies		
Total Cost		\$1,000

Justification

Inventory Data:

Structure Name	<input type="text" value="C127"/>						
Main Hwy/Road #	<input type="text" value="Argyll Drive"/>	On <input checked="" type="checkbox"/> Under <input type="checkbox"/>	Crossing Type:	Navig. Water <input type="checkbox"/> Rail Non-Navig. <input type="checkbox"/> Road	Ped. <input checked="" type="checkbox"/> Other <input type="checkbox"/>		
Structure Location	<input type="text" value="1.7km West of Old Airport Road Lot 7 Con. 6&7"/>						
Latitude	<input type="text" value="4734873.5"/>	Longitude	<input type="text" value="434479.1"/>				
Owners	<input type="text" value="Mun. of Southwest Middlesex"/>	Heritage Designation	Not Consid: <input checked="" type="checkbox"/> Cons/nt. App. <input type="checkbox"/> Desig./not list <input checked="" type="checkbox"/> Desig & List <input type="checkbox"/>	List/n.d.	<input type="checkbox"/>		
MTO region	<input type="text" value="South-Western"/>	Road Class:	Freeway <input type="checkbox"/> Collector <input checked="" type="checkbox"/>	Arterial <input type="checkbox"/> Local <input type="checkbox"/>			
MTO District	<input type="text" value="2"/>	Posted Speed	<input type="text"/>	No. of Lanes	<input type="text" value="2"/>		
Old County	<input type="text" value="Middlesex"/>	AADT	<input type="text"/>	% Trucks	<input type="text"/>		
Geographic Twp.	<input type="text" value="Mosa"/>	Inspection Route Sequence	<input type="text"/>				
Structure Type	<input type="text" value="Concrete Simple Span Culvert"/>	Interchange Number	<input type="text"/>				
Total Culvert Length	<input type="text" value="15.85"/> m	Interchange Structure Number	<input type="text"/>				
Platform Width	<input type="text" value="8.1"/> m	Min. Vertical Clearance	<input type="text"/> m				
Culvert Height	<input type="text" value="2.5"/> m	Special Routes: <input type="checkbox"/> Transit School <input type="checkbox"/> Truck Bicycle <input type="checkbox"/>					
Roadway Width	<input type="text" value="6.5"/> m	Detour Length Around Bridge	<input type="text"/> km				
Skew Angle	<input type="text" value="0"/> Degrees	Direction of Structure	<input type="text"/>				
No. of Spans	<input type="text" value="1"/>	Fill on Structure	<input type="text" value="0.6"/> m				
Span Lengths	<input type="text" value="6.7"/> m						

Historical Data:

Year Built	<input type="text" value="1967"/>	Last Evaluation	<input type="text"/>
Last Biennial Inspection	<input type="text" value="2021"/>	Current Load Limit	<input type="text"/> tonnes
Last Bridge Master Inspection	<input type="text"/>	Load Limit By-Law #	<input type="text"/>
Last Condition Survey	<input type="text"/>	By-Law Expiry Date	<input type="text"/>
Last Underwater Inspection	<input type="text"/>		

Rehab History: (Date / Description)

Spriet Job #: 218175

Field Inspection Information:	
Date of Inspection:	October. 27, 2023
Inspector:	B. Widner
Others in Party:	
Equipment Used:	
Weather:	sunny
Temperature:	20 degrees celsius

Additional Investigations Required:	Priority		
	None	Normal	Urgent
Detailed Deck Condition Survey:	x		
Non-Destructive Delamination Survey of Asphalt-Covered Deck:	x		
Substructure Condition Survey:	x		
Detailed Coating Condition Survey:	x		
Underwater Investigation:	x		
Fatigue Investigation:	x		
Seismic Investigation:	x		
Structure Evaluation	x		
Monitoring of Deformations, Settlements and Movements	x		
Special Notes:			
Next Detailed Visual Inspection:	Oct. 2025		

Element Data

Element Group:	Culverts	Length:	15.85				
Element Name:	Barrel	Width:	6.7				
Location:		Height:	2.5				
Material:	Concrete	Count:					
Element Type:	Cast in Place Simple Span	Total Quantity:	1				
Environment:		Not Inspected:					
Protection System:							Perform. Deficiencies
Condition	Units	Exc.	Good	Fair	Poor		Maint. Needs
Data:	sq. m / m / each / % / all		all				
Comments: Minor efflorescence on northeast and south west corners - see photos							
Recommended Work: None: <input checked="" type="checkbox"/> 1 - 5 years <input type="checkbox"/> <1 year <input type="checkbox"/> Urgent: <input type="checkbox"/>							

Element Group:	Inlet Components	Length:					
Element Name:	Wingwalls	Width:					
Location:		Height:					
Material:		Count:					
Element Type:		Total Quantity:					
Environment:		Not Inspected:					
Protection System:							Perform. Deficiencies
Condition	Units	Exc.	Good	Fair	Poor		Maint. Needs
Data:	sq. m / m / each / % / all						
Comments: None							
Recommended Work: None: <input type="checkbox"/> 1 - 5 years <input type="checkbox"/> <1 year <input type="checkbox"/> Urgent: <input type="checkbox"/>							

Element Group:	Outlet Components	Length:					
Element Name:	Wingwalls	Width:					
Location:		Height:					
Material:		Count:					
Element Type:		Total Quantity:					
Environment:		Not Inspected:					
Protection System:							Perform. Deficiencies
Condition	Units	Exc.	Good	Fair	Poor		Maint. Needs
Data:	sq. m / m / each / % / all						
Comments: None							
Recommended Work: None: <input type="checkbox"/> 1 - 5 years <input type="checkbox"/> <1 year <input type="checkbox"/> Urgent: <input type="checkbox"/>							

Element Data

Element Group:	Wearing Surfaces		Length:		
Element Name:			Width:	6.5	
Location:			Height:		
Material:	Gravel		Count:		
Element Type:			Total Quantity:		
Environment:			Not Inspected:	x	
Protection System:					
Condition	Units	Exc.	Good	Fair	Poor
Data:	sq. m / m / each / % / all				
Comments:					
Recommended Work:					
None: <input type="text"/> 1 - 5 years <input type="text"/> <1 year <input type="text"/>					
Urgent: <input type="text"/>					

Element Group:	Embankments & Streams		Length:		
Element Name:	Embankments		Width:		
Location:			Height:	3.1	
Material:	Earth		Count:		
Element Type:			Total Quantity:		
Environment:			Not Inspected:		
Protection System:					
Condition	Units	Exc.	Good	Fair	Poor
Data:	sq. m / m / each / % / all			all	
Comments:					
Outlet pipe is rusting.					
Recommended Work:					
None: <input type="text"/> 1 - 5 years <input checked="" type="text"/> <1 year <input type="text"/>					
Urgent: <input type="text"/>					
Replace rusting outlet pipe.					

Element Group:	Embankments & Streams		Length:		
Element Name:	Streams		Width:		
Location:			Height:		
Material:			Count:		
Element Type:			Total Quantity:		
Environment:			Not Inspected:		
Protection System:					
Condition	Units	Exc.	Good	Fair	Poor
Data:	sq. m / m / each / % / all		all		
Comments:					
Recommended Work:					
None: <input checked="" type="text"/> 1 - 5 years <input type="text"/> <1 year <input type="text"/>					
Urgent: <input type="text"/>					



Road Section - West View



Inlet



Barrel



Outlet



View of Rusting Outlet Pipe in Southwest Corner - File Photo



Efflorescence on Northeast Corner



Efflorescence on Southwest Corner



Concrete Deterioration on Southeast Corner

Repair Rehabilitation Required		Priority			Estimated Construction Cost
Element	Repair and Rehabilitation Required	1 to 5 years	Within 1 year	Urgent	
Barrel	Repair concrete deterioration	x			10000
Embakments	Outlet pipe is rusting and should be replaced	x			7000
Total Cost					\$17,000

Associated Work	Comments	Estimated Cost
Approaches		
Detours		
Traffic Control		
Utilities		
Right of Way		
Environmental study		
Other		
Contingencies		
Total Cost		\$0

Justification

Inventory Data:

Structure Name	<input type="text" value="C137"/>		
Main Hwy/Road #	<input type="text" value="Old Airport Road"/>	On <input checked="" type="checkbox"/> Under <input type="checkbox"/>	Crossing Type: Navig. Water <input type="checkbox"/> Rail <input type="checkbox"/> Non-Navig. <input type="checkbox"/> Road <input type="checkbox"/> Ped. <input checked="" type="checkbox"/> Other <input type="checkbox"/>
Structure Location	<input type="text" value="0.1 km North of Centreville Drive Lot 4&5 Con. 1"/>		
Latitude	<input type="text" value="4730207.7"/>	Longitude	<input type="text" value="441152.9"/>
Owners	<input type="text" value="Mun. of Southwest Middlesex"/>	Heritage Designation	Not Consid: <input checked="" type="checkbox"/> Cons/nt. App. <input type="checkbox"/> List/n.d. <input type="checkbox"/> Desig./not list <input type="checkbox"/> Desig & List <input type="checkbox"/>
MTO region	<input type="text" value="South-Western"/>	Road Class:	Freeway <input type="checkbox"/> Arterial <input type="checkbox"/> Collector <input type="checkbox"/> Local <input checked="" type="checkbox"/>
MTO District	<input type="text" value="2"/>	Posted Speed	<input type="text"/> No. of Lanes <input type="text" value="2"/>
Old County	<input type="text" value="Middlesex"/>	AADT	<input type="text"/> % Trucks <input type="text"/>
Geographic Twp.	<input type="text" value="Mosa"/>	Inspection Route Sequence	<input type="text"/>
Structure Type	<input type="text" value="CSP Round"/>	Interchange Number	<input type="text"/>
Total Culvert Length	<input type="text" value="17"/> m	Interchange Structure Number	<input type="text"/>
Platform Width	<input type="text" value="9"/> m	Min. Vertical Clearance	<input type="text"/> m
Culvert Height	<input type="text" value="2.4"/> m	Special Routes:	Transit <input type="checkbox"/> School <input type="checkbox"/> Truck <input type="checkbox"/> Bicycle <input type="checkbox"/>
Roadway Width	<input type="text" value="6.1"/> m	Detour Length Around Bridge	<input type="text"/> km
Skew Angle	<input type="text" value="0"/> Degrees	Direction of Structure	<input type="text"/>
No. of Spans	<input type="text" value="1"/>	Fill on Structure	<input type="text" value="1"/> m
Span Lengths	<input type="text" value="2.4"/> m		

Historical Data:

Year Built	<input type="text" value="2014"/>	Last Evaluation	<input type="text"/>
Last Biennial Inspection	<input type="text" value="2021"/>	Current Load Limit	<input type="text"/> tonnes
Last Bridge Master Inspection	<input type="text"/>	Load Limit By-Law #	<input type="text"/>
Last Condition Survey	<input type="text"/>	By-Law Expiry Date	<input type="text"/>
Last Underwater Inspection	<input type="text"/>		

Rehab History: (Date / Description)

Field Inspection Information:	
Date of Inspection:	October. 23, 2023
Inspector:	Brandon Widner
Others in Party:	
Equipment Used:	
Weather:	sunny
Temperature:	12 degrees celsius

Additional Investigations Required:	Priority		
	None	Normal	Urgent
Detailed Deck Condition Survey:	x		
Non-Destructive Delamination Survey of Asphalt-Covered Deck:	x		
Substructure Condition Survey:	x		
Detailed Coating Condition Survey:	x		
Underwater Investigation:	x		
Fatigue Investigation:	x		
Seismic Investigation:	x		
Structure Evaluation	x		
Monitoring of Deformations, Settlements and Movements		x	
Special Notes:			
Next Detailed Visual Inspection:	Oct. 2025		

Element Data

Element Group:	Culverts	Length:	17		
Element Name:	Barrel	Width:	2.4		
Location:		Height:	2.4		
Material:	Steel	Count:			
Element Type:	Corrugated Steel Plate Pipe Arch	Total Quantity:	1		
Environment:		Not Inspected:			
Protection System:					Perform. Maint.
Condition Data:	Units	Exc.	Good	Fair	Poor
	sq. m / m / each / % / all				all
Deficiencies Needs					
Comments:					
Recommended Work:					
None:		<input type="text"/>		1 - 5 years	<input type="text"/>
Urgent:		<input type="text"/>		<1 year	<input checked="" type="checkbox"/>

Element Group:	Inlet Components	Length:			
Element Name:	Wingwalls	Width:			
Location:		Height:			
Material:	Concrete	Count:			
Element Type:	Broken Concrete	Total Quantity:			
Environment:		Not Inspected:			
Protection System:					Perform. Maint.
Condition Data:	Units	Exc.	Good	Fair	Poor
	sq. m / m / each / % / all			all	
Deficiencies Needs					
Comments:					
Recommended Work:					
None:		<input checked="" type="checkbox"/>		1 - 5 years	<input type="text"/>
Urgent:		<input type="text"/>		<1 year	<input type="text"/>

Element Group:	Outlet Components	Length:			
Element Name:	Wingwalls	Width:			
Location:		Height:			
Material:		Count:			
Element Type:		Total Quantity:			
Environment:		Not Inspected:			
Protection System:					Perform. Maint.
Condition Data:	Units	Exc.	Good	Fair	Poor
	sq. m / m / each / % / all				
Deficiencies Needs					
Comments:					
None					
Recommended Work:					
None:		<input type="text"/>		1 - 5 years	<input type="text"/>
Urgent:		<input type="text"/>		<1 year	<input type="text"/>

Element Data

Element Group:	Wearing Surfaces		Length:				
Element Name:			Width:	6.1			
Location:			Height:				
Material:	Gravel		Count:				
Element Type:			Total Quantity:				
Environment:			Not Inspected:	x			
Protection System:						Perform.	Maint.
Condition	Units	Exc.	Good	Fair	Poor	Deficiencies	Needs
Data:	sq. m / m / each / % / all						
<p>Comments:</p> <p>Recommended Work:</p> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: right;">None:</div> <div style="border: 1px solid black; width: 50px; text-align: center;">x</div> <div style="text-align: right;">1 - 5 years</div> <div style="border: 1px solid black; width: 50px; text-align: center;"></div> <div style="text-align: right;"><1 year</div> <div style="border: 1px solid black; width: 50px; text-align: center;"></div> </div> <div style="display: flex; justify-content: space-between; align-items: flex-start; margin-top: 5px;"> <div style="text-align: right;">Urgent:</div> <div style="border: 1px solid black; width: 50px; text-align: center;"></div> </div>							

Element Group:	Embankments & Streams		Length:				
Element Name:	Embankments		Width:				
Location:			Height:	3.4			
Material:	Earth		Count:				
Element Type:			Total Quantity:				
Environment:			Not Inspected:				
Protection System:						Perform.	Maint.
Condition	Units	Exc.	Good	Fair	Poor	Deficiencies	Needs
Data:	sq. m / m / each / % / all		all				
<p>Comments:</p> <p>Recommended Work:</p> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: right;">None:</div> <div style="border: 1px solid black; width: 50px; text-align: center;">x</div> <div style="text-align: right;">1 - 5 years</div> <div style="border: 1px solid black; width: 50px; text-align: center;"></div> <div style="text-align: right;"><1 year</div> <div style="border: 1px solid black; width: 50px; text-align: center;"></div> </div> <div style="display: flex; justify-content: space-between; align-items: flex-start; margin-top: 5px;"> <div style="text-align: right;">Urgent:</div> <div style="border: 1px solid black; width: 50px; text-align: center;"></div> </div>							

Element Group:	Embankments & Streams		Length:				
Element Name:	Streams		Width:				
Location:			Height:				
Material:			Count:				
Element Type:			Total Quantity:				
Environment:			Not Inspected:				
Protection System:						Perform.	Maint.
Condition	Units	Exc.	Good	Fair	Poor	Deficiencies	Needs
Data:	sq. m / m / each / % / all		all				
<p>Comments:</p> <p>Recommended Work:</p> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: right;">None:</div> <div style="border: 1px solid black; width: 50px; text-align: center;">x</div> <div style="text-align: right;">1 - 5 years</div> <div style="border: 1px solid black; width: 50px; text-align: center;"></div> <div style="text-align: right;"><1 year</div> <div style="border: 1px solid black; width: 50px; text-align: center;"></div> </div> <div style="display: flex; justify-content: space-between; align-items: flex-start; margin-top: 5px;"> <div style="text-align: right;">Urgent:</div> <div style="border: 1px solid black; width: 50px; text-align: center;"></div> </div>							

Element Data

Element Group:	Guardrails	Length:			
Element Name:	Flex Beam	Width:			
Location:		Height:			
Material:		Count:			
Element Type:		Total Quantity:			
Environment:		Not Inspected:			
Protection System:					Perform. Maint.
Condition	Units	Exc.	Good	Fair	Poor
Data:	sq. m / m / each / % / all				all
Comments: None are present. Install.					
Recommended Work: <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: right;"> None: <input style="width: 60px;" type="text"/> Urgent: <input style="width: 60px;" type="text"/> </div> <div style="text-align: center;"> 1 - 5 years <input checked="" style="width: 60px;" type="text"/> </div> <div style="text-align: right;"> <1 year <input style="width: 60px;" type="text"/> </div> </div>					

Element Group:	Signs	Length:			
Element Name:	End markers	Width:			
Location:		Height:			
Material:		Count:			
Element Type:		Total Quantity:			
Environment:		Not Inspected:			
Protection System:					Perform. Maint.
Condition	Units	Exc.	Good	Fair	Poor
Data:	sq. m / m / each / % / all				all
Comments: None are present. Install.					
Recommended Work: <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: right;"> None: <input style="width: 60px;" type="text"/> Urgent: <input style="width: 60px;" type="text"/> </div> <div style="text-align: center;"> 1 - 5 years <input checked="" style="width: 60px;" type="text"/> </div> <div style="text-align: right;"> <1 year <input style="width: 60px;" type="text"/> </div> </div>					

Element Group:		Length:			
Element Name:		Width:			
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Condition	Units	Exc.	Good	Fair	Poor
Data:	sq. m / m / each / % / all				
Comments:					
Recommended Work: <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: right;"> None: <input style="width: 60px;" type="text"/> Urgent: <input style="width: 60px;" type="text"/> </div> <div style="text-align: center;"> 1 - 5 years <input style="width: 60px;" type="text"/> </div> <div style="text-align: right;"> <1 year <input style="width: 60px;" type="text"/> </div> </div>					



Road Section - South View



Inlet



Barrel



Outlet

Repair Rehabilitation Required		Priority			Estimated Construction Cost
Element	Repair and Rehabilitation Required	1 to 5 years	Within 1 year	Urgent	
Total Cost					\$0

Associated Work	Comments	Estimated Cost
Approaches	Install 4 end markers. Install guardrails	1000 50000
Detours		
Traffic Control		
Utilities		
Right of Way		
Environmental study		
Other		
Contingencies		
Total Cost		\$51,000

Justification