Element Group:	Approaches Barrier/Parapet walls	Site Number: Width:	B-023	m
Element type: Sub-element: Material: Location: Environment:	Parapet wall w/ a double railing Interior Cast-in-place Concrete Severe	Height: Length: Count: Total Quantity: Not inspected:	0.7 5 4 19	m m sqm
Perform. deficiencies: Maint needs: Condition Data (sqm): Exec: Good:	None	Maintenance Type: Maint. Time Period:		
Rehab Needs: Rehab time period:		Unit Cost: Estimated Cost:		

General Comments:

Light localized map cracking at connection to guide rail.



Element Group:	Approaches	Site Number:	B-023			
Element Name:	Barrier/Parapet walls	Width:		m		
Element type:	Parapet wall w/ a double railing	Height:	0.7	m		
Sub-element:	Exterior	Length:	5	m		
Material:	Cast-in-place Concrete	Count:	4			
Location:		Total Quantity:	14	sqm		
Environment:	Moderate	Not inspected:				
Perform. deficiencies:	None	Maintenance Type:				
Maint needs:		Maint. Time Period:				
Condition Data (sqm): Exec: O Good: 14 Fair: 0 Poor: 0						
Rehab Needs:		Unit Cost:				
Rehab time period: Quantity:		Estimated Cost:				
Consuel Comments						

General Comments:



Element Group: Element Name: Element type: Sub-element: Material: Location: Environment: Perform. deficiencies:	Barriers Barrier/Parapet walls Parapet wall w/ a double railing Interior Cast-in-place Concrete Severe	Site Number: Width: Height: Length: Count: Total Quantity: Not inspected: Maintenance Type:	B-023	m m m
Maint needs: Condition Data (sqm): Exec: 0 Good: Rehab Needs: Rehab time period: Quantity: General Comments:	26 Fair: 0 Poor: 0	Maint. Time Period: Unit Cost: Estimated Cost:		



Element Inspection			
Element Group:	Barriers	Site Number:	B-023
Element Name:	Barrier/Parapet walls	Width:	m
Element type:	Parapet wall w/ a double railing	Height:	0.7 m
Sub-element:	Exterior	Length:	13.5 m
Material:	Cast-in-place Concrete	Count:	2
Location:		Total Quantity:	19 sqm
Environment:	Moderate	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Rehab Needs: Rehab time period:		Unit Cost: Estimated Cost:	
Quantity:		Estimated Cost.	
General Comments:			



Element Group:	Barriers	Site Number:	B-023		
Element Name:	Hand railings	Width:		m	
Element type:		Height:		m	
Sub-element:		Length:	13.5	m	
Material:	Steel	Count:	2		
Location:		Total Quantity:	27	m	
Environment:	Severe	Not inspected:			
Perform. deficiencies:	None	Maintenance Type:			
Maint needs:		Maint. Time Period:			
Condition Data (m):					
Exec: 0 Good:	27 Fair: 0 Poor: 0				
Rehab Needs:		Unit Cost:			
Rehab time period:		Estimated Cost:			
Quantity:					
General Comments:					
1					



Element Inspection			
Element Group:	Decks	Site Number:	B-023
Element Name:	Deck top (with thick slab)	Width:	9.9 m
Element type:		Height:	m
Sub-element:		Length:	13.5 m
Material:	Cast-in-place Concrete	Count:	
Location:		Total Quantity:	134 sqm
Environment:	Moderate	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Exec: O Good: Rehab Needs:	134 Fair: 0 Poor	Unit Cost:	
		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			
U LOS AND	THE PROPERTY NAMED IN		
All like			
		The Article Control	

2024 Jun 10 04:14 PM

Element Group:	Decks	Site Number:	B-023	
Element Name:	Wearing surface	Width:	6.5	m
Element type:		Height:		m
Sub-element:		Length:	13.5	m
Material:	Stone Chip	Count:	,	-
Location:		Total Quantity:	88	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec:	88 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:			,	
General Comments:				



Element Inspection			
Element Group:	Embankments and Streams	Site Number:	B-023
Element Name:	Streams & waterways	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	1
Location:		Total Quantity:	1
Environment:		Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Rehab Needs: Rehab time period:		Unit Cost:	
Condition Data: Exec: 0 Good:	1 Fair: 0 Poor:		
		Unit Cost:	
		Estimated Cost:	
Quantity:			
General Comments:			
		interest of the second	
sel There is			
			The state of the s

Element Group: Element Name: Element type: Sub-element: Material: Location: Environment: Perform. deficiencies: Maint needs: Condition Data (each): Exec: O Good: Imbankments and Streams Embankments None Materials None None Perform. deficiencies: None Perform. deficiencies: O Good: Fair: O Poor:	Site Number: Width: Height: Length: Count:	B-023	
Element type: Sub-element: Material: Location: Environment: Perform. deficiencies: Maint needs: Condition Data (each):	Height: Length: Count:		m
Sub-element: Material: Location: Environment: Perform. deficiencies: Maint needs: Condition Data (each):	Length:		
Material: Location: Environment: Perform. deficiencies: Maint needs: Condition Data (each):	Count:	4	m
Location: Environment: Perform. deficiencies: Maint needs: Condition Data (each):	_	4	
Perform. deficiencies: None Maint needs: Condition Data (each):	T	4	
Perform. deficiencies: None Maint needs: Condition Data (each):	Total Quantity:	4	each
Maint needs: Condition Data (each):	Not inspected:		
Condition Data (each):	Maintenance Type:		
	Maint. Time Period:		
Rehab Needs: Rehab time period:	Unit Cost: Estimated Cost:		
Quantity:			
General Comments:			
		The second	100



Element Group:	Sidewalks/curbs	Site Number:	B-023
Element Name:	Curbs	Width:	0.55 m
Element type:		Height:	0.2 m
Sub-element:		Length:	13.5 m
Material:	Cast-in-place Concrete	Count:	2
Location:		Total Quantity:	27 m
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Rehab Needs: Rehab time period:	27 Fair: 0 Poor: 0	Unit Cost: Estimated Cost:	
Quantity:			
		a line has to be able to be the best of the	

Element Inspection			
Element Group:	Signs	Site Number:	B-023
Element Name:	Signs	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:	Steel	Count:	4
Location:		Total Quantity:	4 each
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: Good: Rehab Needs:	4 Fair: 0 Poor: 0	Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			
41			

2024 Jun 10 04:13 PM

Element Group:	Abutments	Site Number:	B-023
Element Name:	Walls	Width:	9.9 m
Element type:	Legs of a rigid frame	Height:	1.5 m
Sub-element:		Length:	m
Material:	Cast-in-place Concrete	Count:	2
Location:		Total Quantity:	30 sqm
Environment:	Benian	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec:	30 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			



Element Group:	Abutments	Site Number:	B-023
Element Name:	Wingwalls	Width:	m
Element type:		Height:	2.1 m
Sub-element:		Length:	5.1 m
Material:	Cast-in-place Concrete	Count:	4
Location:		Total Quantity:	43 sqm
Environment:	Moderate	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec: Good:	41 Fair: 1 Poor: 1		
Rehab Needs:		Unit Cost:	
Rehab time period: Quantity:		Estimated Cost:	

General Comments:

Medium to wide cracking with leachate staining.



Element Inspection				
Element Group:	Decks	Site Number:	B-023	
Element Name:	Soffit - thick slab	Width:	5.7 m	
Element type:		Height:	m	
Sub-element:	Interior	Length:	13.5 m	
Material:	Cast-in-place Concrete	Count:	1	
Location:		Total Quantity:	76 sqr	m
Environment:	Moderate	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Exec: 0 Good: Rehab Needs:	76 Fair: 0 Poor:	Unit Cost:		
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:				
General Comments:				
		winds and he was to be		
-	-			
	and the second second			

2024 Jun 10 04:

мет туресион				
Element Group:	Decks	Site Number:	B-023	
Element Name:	Soffit - thick slab	Width:	1.1	m
Element type:		Height:	0.5	m
Sub-element:	Exterior	Length:	13.5	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	43	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec:	Fair: 0 Poor: 0	Unit Cost: Estimated Cost:		
Quantity:				
General Comments:				
I .				



Element Inspection			
Element Group:	Foundations	Site Number:	B-023
Element Name:	Foundation (below ground)	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	2
Location:		Total Quantity:	2
Environment:		Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data: Exec:	2 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments: No signs of settlement.			

Element Inspection Element Group: Site Number: Approaches B-023 **Element Name:** Width: Wearing surface 6.5 Element type: Height: m Sub-element: Length: 5 m Material: Stone Chip 2 Count: Location: **Total Quantity:** 65 sqm **Environment:** Severe Not inspected: Perform. deficiencies: None Maintenance Type: Maint. Time Period: Maint needs: Condition Data (sqm): Exec: 0 Poor: 0 Good: 65 Fair: 0 Rehab Needs: **Unit Cost:** Rehab time period: **Estimated Cost:** Quantity:

General Comments:



OSIM Biennial Inspection Report



Site Number:

N-062

Concession 13/14, Lot 30



North Elevation



Inventory Data		
Structure Name: Concession 13/14, Lot 30	Site Number:	N-062
District: Concession 13 & 14, Lot 30	Road Name:	Concession Rd 14
County: Grey County	Owner:	West Grey
Township:	Skew:	0
Bridge or Culvert: Bridge	AADT:	200
Structure Type: Concrete Rigid Frame	Overall Struct. Width:	9.7 m
Number of Spans:	Roadway Width:	8.5 m
Direction of Structure: East-West	Total Deck Length:	10.5 m
GPS Coordinates (Degrees)	Span (s):	9.1 m
Latitude: 44.094666	Total Deck Area:	102 sq.m
Longitude: -80.86105	Current Load Limit:	0
Inspection Data		
Date of Inspection: 31-Jul-24		
Name of Inspector: Andrew Burgess, P.Eng. & Joel Ziegler CE	Т	
Equipment Used: Sounding hammer, measuring equipment, 0	GPS	
Weather Conditions: Sunny		
Temperature: 23		
Special Notes: Bridge is in good condition, showing no sign	ns of structural distress.	
Overall Inspection Summary		
Additional Investigation Required: Additional Investigation Cost: Rehabilitation Needs: Rehabilitation Timing: Total Rehabilitation Budget Costings:		riority:
Year Built: 1980	Contract Number When Bu	ilt:
Latest Biennial Inspection: September 6, 2022	Latest Specialized Inspecti	
Latest Structure Rating: 74.7	Latest Structure Condition	
RehabHistory:		,
Regional Priority Number:	Programmed Work Year:	
NatureOfProgramWork:	3	

Description: Abutment Walls: Light to medium vertical cracking with leachate staining.



Description: Barrier/Parapet walls (int): Medium to wide vertical cracking.



Description: Deck top: Minor abrasions throughout.



Element Group:	Abutments	Site Number:	N-062	
Element Name:	Walls	Width:	9.7	m
Element type:	Leas of a rigid frame	Height:	1.8	m
Sub-element:		Length:		m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	35	sqm
Environment:	Benign	Not inspected:		·
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	34 Fair: 1 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:		Estimated Cost:		

General Comments:

Light to medium vertical cracking with leachate staining.



Element Group:	Abutments	Site Number:	N-062	
Element Name:	Wingwalls	Width:		m
Element type:		Height:	1.4	m
Sub-element:		Length:	3.6	m
Material:	Cast-in-place Concrete	Count:	4	
Location:		Total Quantity:	20	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	20 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:				
General Comments:				





Вистен Тизресион			
Element Group:	Decks	Site Number:	N-062
Element Name:	Drainage system	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:	Steel	Count:	4
Location:	-	Total Quantity:	4 each
Environment:	Severe	Not inspected:	4 cacii
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: Good:	Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			
		2024	Jul 31 12:41 PM

Element Group:	Decks	Site Number:	N-062
Element Name:	Soffit - thick slab	Width:	6.9 m
Element type:		Height:	m
Sub-element:	Interior	Length:	9.1 m
Material:	Cast-in-place Concrete	Count:	1
Location:		Total Quantity:	63 sqm
Environment:	Benian	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec:	63 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			
		2024	Jul 31 12:41 PM

Element Inspection				
Element Group:	Decks	Site Number:	N-062	
Element Name:	Soffit - thick slab	Width:	1	m
Element type:		Height:	0.4	m
Sub-element:	Exterior	Length:	9.1	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	25	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	25 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:			,	
General Comments:				

Element Inspection			
Element Group:	Foundations	Site Number:	N-062
Element Name:	Foundation (below ground)	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	2
Location:		Total Quantity:	2
Environment:	Benian	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data: Exec: Good:	2 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			,
General Comments: No signs of settlement.			
1			

Element Inspection Element Group: Site Number: N-062 Approaches **Element Name:** Width: Wearing surface 8.5 Element type: Height: m Sub-element: Length: 5 m Material: Gravel Count: 2 Location: **Total Quantity:** 85 sqm **Environment:** Severe Not inspected: Perform. deficiencies: None Maintenance Type: Maint. Time Period: Maint needs: Condition Data (sqm): Exec: 0 Poor: 0 Good: 85 Fair: 0 Rehab Needs: **Unit Cost:** Rehab time period: **Estimated Cost:** Quantity: **General Comments:**



Flament Group:	Approaches	Site Number:	N-062
Element Group: Element Name:		Width:	
	Approach slab		9.7 m
Element type: Sub-element:		Height:	m m
Sub-element: Material:		Length:	5 m
	Cast-in-place Concrete	Count:	2
Location:		Total Quantity:	97
Environment:	Moderate	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Rehab Needs: Rehab time period:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:	•		
No signs of settlement.			
l			
1			

2024 Jul 31 12:42 PI

_			
Element Group:	Approaches	Site Number:	N-062
Element Name:	Curbs	Width:	0.3 m
Element type:		Height:	0.2 m
Sub-element:		Length:	5 m
Material:	Cast-in-place Concrete	Count:	4
Location:		Total Quantity:	20 m
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (m): Exec:	20 Fair: 0 Poor: 0	Unit Cost: Estimated Cost:	
Quantity:		Estimated Cost:	
General Comments:			
		762.4	THIS SEE SEA FROM

Element Group:	Approaches	Site Number:	N-062
Element Name:	Barrier/Parapet walls	Width:	0.27 m
Element type:		Height:	0.65 m
Sub-element:	Interior	Length:	5 m
Material:	Cast-in-place Concrete	Count:	4
Location:		Total Quantity:	18 sqm
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec: 0 Good:	18 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period: Quantity:		Estimated Cost:	
General Comments:			



Element Group:	Approaches	Site Number:	N-062	
Element Name:	Barrier/Parapet walls	Width:	m	
Element type:		Height:	0.65 m	
Sub-element:	Exterior	Length:	5 m	
Material:	Cast-in-place Concrete	Count:	4	
Location:		Total Quantity:	13 sqm	
Environment:	Moderate	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good: 13 Fair: 0 Poor: 0				
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:		Estimated Cost:		

General Comments:



Element Group:	Barriers	Site Number:	N-062	
Element Name:	Barrier/Parapet walls	Width:	0.27	m
Element type:	Parapet wall w/ a double railing	Height:	0.65	m
Sub-element:	Interior	Length:	10.5	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	19	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good: 17 Fair: 1 Poor: 1				
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:				

General Comments:

Medium to wide vertical cracking.



Element Group: Element Name: Element type: Sub-element: Material:	Barriers Barrier/Parapet walls Parapet wall w/ a double railing Exterior Cast-in-place Concrete	Site Number: Width: Height: Length: Count:	N-062 0.65 10.5	m m m
Location: Environment: Perform. deficiencies:	Moderate None	Total Quantity: Not inspected: Maintenance Type:	14	sqm
Maint needs: Condition Data (sqm): Exec: 0 Good: 14 Fair: 0 Poor: 0				
Rehab Needs: Rehab time period: Quantity: General Comments:		Unit Cost: Estimated Cost:		



Element Group: Element Name: Element type: Sub-element: Material: Location: Environment: Perform. deficiencies:	Barriers Hand railings Steel Severe	Site Number: Width: Height: Length: Count: Total Quantity: Not inspected: Maintenance Type:	N-062 10.5 2 21	m m m
Maint needs: Condition Data (m): Exec: 0 Good: Rehab Needs: Rehab time period: Quantity:	21 Fair: 0 Poor: 0	Maint. Time Period: Unit Cost: Estimated Cost:		



Element Group:	Decks	Site Number:	N-062	
Element Name:	Deck top (with thick slab)	Width:	9.7 m	
Element type:		Height:	m	
Sub-element:		Length:	10.5 m	
Material:	Cast-in-place Concrete	Count:		
Location:		Total Quantity:	102 sqm	
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good: 102 Fair: 0 Poor: 0				
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		

General Comments:

Minor abrasions throughout.



Element Inspection			
Element Group:	Embankments and Streams	Site Number:	N-062
Element Name:	Streams & waterways	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	1
Location:		Total Quantity:	1
Environment:		Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data: Exec: 0 Good:	1 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			

2024 Jul 31 12:41 PM

Element Group:	Embankments and Streams	Site Number:	N-062
Element Name:	Embankments	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	4
Location:		Total Quantity:	4 each
Environment:		Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: Good:	4 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period: Quantity:		Estimated Cost:	
Consuel Commenter			

General Comments:

Steep embankments, recommend approach protection.



Element Inspection			
Element Group:	Sidewalks/curbs	Site Number:	N-062
Element Name:	Curbs	Width:	0.3 m
Element type:		Height:	0.2 m
Sub-element:		Length:	10.5 m
Material:		Count:	2
Location:		Total Quantity:	21 m
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (m): Exec: Good: Rehab Needs:	21 Fair: 0 Poor: 0	Unit Cost:	
Rehab time period:			
Quantity:		Estimated Cost:	
General Comments:			

stement inspection				
Element Group:	Sians	Site Number:	N-062	
Element Name:	Signs	Width:		m
Element type:		Height:		m
Sub-element:		Length:		m
Material:		Count:	4	
Location:		Total Quantity:	4	each
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: 0 Good:	4 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:			,	
General Comments:				
,				



OSIM Biennial Inspection Report



Site Number:

B-119

Concession 14 NDR Lot 3 Culvert



West Approach



Inventory Data				
Structure Name:	Concession 14 NDR Lot 3 Culvert	Site Number:	B-119	
District:		Road Name:	Concession 14 NDR	
County:	Grey County	Owner:	West Grev	
Township:	West Grey	Skew:	0	
Bridge or Culvert:	Culvert	AADT:	150	
Structure Type:	Box Culvert Open Footing - Simple	Overall Struct. Width:	5.5 m	
Number of Spans:	1	Roadway Width:	4.5 m	
Direction of Structure:	East-West	Total Deck Length:	7.2 m	
GPS Coordinates (Degree	ees)	Span (s):	6 m	
Latitu General	ude: 44.279896	Total Deck Area:	sq.m	
	itude: -81.050835	Current Load Limit:	0	
Inspection Data				
Date of Inspection:	13-Jun-24			
	A. Burgess P.Eng. & J. Ziegler CET			
Equipment Used:	Sounding hammer, measuring equipment, GF	PS		
	Cloudy			
Temperature:	20			
_	Culvert is in fair to good condition, showing no	o signs of structural distress		
Overall Inspection St	ummary			
Additional Investigation Required: Additional Investigation Cost: Rehabilitation Needs: Rehabilitation Timing: Total Rehabilitation Budget Costings: Investigation Required: Priority: Priority: Priority: Priority: Engineering Fee:				
Additional Investigation C Rehabilitation Needs: Rehabilitation Timing: Total Rehabilitation Budg	Cost:		riority:	
Additional Investigation C Rehabilitation Needs: Rehabilitation Timing:	Cost:		riority:	
Additional Investigation C Rehabilitation Needs: Rehabilitation Timing: Total Rehabilitation Budg Historical Data Year Built:	et Costings:	Engineering Fee:	ilt:	
Additional Investigation C Rehabilitation Needs: Rehabilitation Timing: Total Rehabilitation Budge Historical Data Year Built: Latest Biennial Inspection	Dost: 1941	Engineering Fee: Contract Number When Bu	ilt:	
Additional Investigation C Rehabilitation Needs: Rehabilitation Timing: Total Rehabilitation Budg Historical Data Year Built: Latest Biennial Inspection Latest Structure Rating:	Dost: 1941	Engineering Fee:	ilt:	
Additional Investigation C Rehabilitation Needs: Rehabilitation Timing: Total Rehabilitation Budge Historical Data Year Built: Latest Biennial Inspection	Dost:	Engineering Fee: Contract Number When Bu	ilt:	

Description: Railing systems: Original rail disintegration with areas of 100% section loss.



Description: Barrel: Minor spall with exposed reinforcing at midspan.



Description: Railing Systems: Moderate impact damage at NE quadrant.



Description: Railing Systems: Severe rotting at SE quadrant.



Description: Wearing Surface: Light to medium map cracking.



Description: Wearing Surface: Minor potholes throughout have been filled with cold patch.



Element Group:	Barriers	Site Number:	B-119
Element Name:	Railing systems	Width:	0 m
Element type:		Height:	0.7 m
Sub-element:		Length:	7.2 m
Material:	Cast-in-place Concrete	Count:	2
Location:		Total Quantity:	14 m
Environment:	Severe	Not inspected:	
		•	
Perform. deficiencies:		Maintenance Type:	Structural
Maint needs:	Barrier/railing system repair	Maint. Time Period:	2 Year
Condition Data (m): Exec: Good:	10 Fair: 2 Poor: 2		
Rehab Needs:		Unit Cost:	
Rehab time period:	None Recommended	Estimated Cost:	
Quantity:	0		

General Comments:

Flexi beam mounted to original, concrete post and rail, railing system. Original rail disintegration with areas of 100% section loss.



Element Group:	Culverts	Site Number:	B-119	
Element Name:	Barrels	Width:	6	m
Element type:		Height:	2	m
Sub-element:		Length:	5.5	m
Material:	Cast-in-place Concrete	Count:	1	
Location:		Total Quantity:	55	sqm
Environment:	Benian	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	53 Fair: 1 Poor: 1			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	0	Estimated Cost:		

General Comments:

Minor spall with exposed reinforcing at midspan.



Culverts	Site Number:	B-119	
Inlet Components	Width:	6	m
	Height:	2	m
	Length:	0	m
Cast-in-place Concrete	Count:	1	
North Side	Total Quantity:	14	sqm
Moderate	Not inspected:		
	Maintenance Type:		
	Maint. Time Period:		
14 Fair: 0 Poor: 0			
	Unit Cost:		
	Estimated Cost:		
0		,	
	Inlet Components Cast-in-place Concrete North Side Moderate 14 Fair: 0 Poor: 0	Inlet Components Width: Height: Length: Cast-in-place Concrete North Side Total Quantity: Not inspected: Maintenance Type: Maint. Time Period: 14 Fair: 0 Poor: 0 Unit Cost: Estimated Cost:	Inlet Components Width: Height: Length: Cast-in-place Concrete North Side Total Quantity: Not inspected: Maintenance Type: Maint. Time Period: 14 Fair: Unit Cost: Estimated Cost:



Element Inspection				
Element Group:	Accessories (Attachments and Signs)	Site Number:	B-119	
Element Name:	Signs	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:	Steel	Count:	4	
Location:		Total Quantity:	4	each
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: 0 Good:	4 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0	Estimated Cost.		
General Comments:				
		S. Sans		.eco.

2024 Jun 13 09:57 AM

Element Group:	Culverts	Site Number:	B-119	
Element Name:	Outlet Components	Width:	6	m
Element type:		Height:	2	m
Sub-element:		Length:	0	m
Material:	Cast-in-place Concrete	Count:	1	
Location:	South Side	Total Quantity:	14	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	14 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	0	Estimated Cost:		
Conoral Commenter				

General Comments:



Element Group:	Barriers	Site Number:	B-119
Element Name:	Railing Systems	Width:	0 m
Element type:	Flexi beam with timber posts	Height:	0.7 m
Sub-element:		Length:	9 m
Material:	Steel	Count:	4
Location:	Approaches	Total Quantity:	36 m
Environment:	Severe	Not inspected:	
Perform. deficiencies:		Maintenance Type:	Structural
Maint needs:	Barrier/railing system repair	Maint. Time Period:	1 Year
Condition Data (m): Exec: Good:	30 Fair: 4 Poor: 2		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:	0		

General Comments:

Moderate impact damage at NE quadrant. Severe rotting at SE quadrant.



Element Group:	Decks	Site Number:	B-119	
Element Name:	Wearing Surface	Width:	7	m
Element type:		Height:	0	m
Sub-element:		Length:	7.2	m
Material:	Asphalt	Count:	1	
Location:		Total Quantity:	50	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	39 Fair: 10 Poor: 1			
Rehab Needs:		Unit Cost:		
Rehab time period:	0	Estimated Cost:		

General Comments:

Light to medium map cracking. Minor potholes throughout have been filled with cold patch.



Element Inspection			
Element Group:	Embankments & Streams	Site Number:	B-119
Element Name:	Embankments	Width:	0 m
Element type:		Height:	0 m
Sub-element:		Length:	0 m
Material:		Count:	4
Location:		Total Quantity:	4 each
Environment:	Benian	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Rehab Needs: Rehab time period:		Unit Cost:	
Exec: 0 Good:	4 Fair: 0 Poor:	IO	
		Unit Cost:	
_		Estimated Cost:	
Quantity:	0		
General Comments:			

2024 Jun 13 09:55 AM

Element Group:	Embankments & Streams	Site Number:	B-119
Element Name:	Streams and Waterways	Width:	0 m
Element type:		Height:	0 m
Sub-element:		Length:	0 m
Material:		Count:	1
Location:		Total Quantity:	1 each
Environment:	Benign	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: 0 Good: Rehab Needs: Rehab time period: Quantity: General Comments:	Poor: 0	Unit Cost: Estimated Cost:	
		2024	Jun 13 09:54 AM

Element Inspection				
Element Group:	Foundations	Site Number:	B-119	
Element Name:	Foundation (below ground level)	Width:		m
Element type:		Height:		m
Sub-element:		Length:		m
Material:	Cast-in-place Concrete	Count:		
Location:		Total Quantity:		each
Environment:	Benign	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: Good:	0 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0			
General Comments:				
No signs of settlement				

OSIM Biennial Inspection Report



Site Number:

B-022

Concession 3, Bailey Bridge

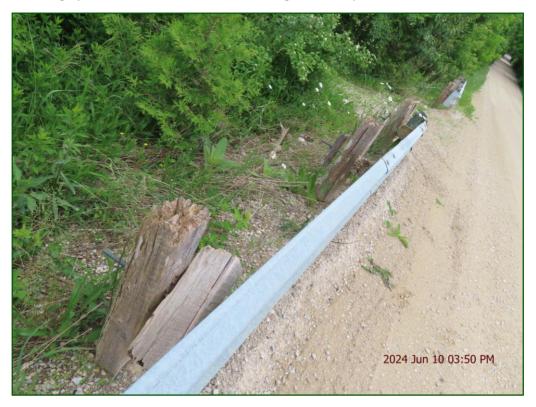


West Elevation



Inventory Data				
Structure Name:	Concession 3, Bailey Bridge	Site Number:	B-022	
District:		Road Name:	Allan Park Road	
County:	Grey County	Owner:	West Grey	
Township:	West Grey	Skew:	0	
Bridge or Culvert:	Bridge	AADT:	200	
Structure Type:	Concrete Deck w/ Pre-stressed Beams	Overall Struct. Width:	8.5 m	
Number of Spans:	1	Roadway Width:	8 m	
Direction of Structure:	North-South	Total Deck Length:	31 m	
GPS Coordinates (Degre	ees)	Span (s):	30 m	
Latit General	ude: 44.192654	Total Deck Area:	264 sq.m	
	gitude: -80.938300	Current Load Limit:	0	
Inspection Data				
Date of Inspection:	10-Jun-24			
	A. Burgess P.Eng. & J. Ziegler CET			
	Sounding hammer, measuring equipment, GP	PS		
-	Cloudy			
Temperature:	12			
Special Notes:	Bridge is in good condition, showing no signs	of structural distress.		
Overall Inspection S	ummary			
Additional Investigation Required: Additional Investigation Cost: Rehabilitation Needs: Rehabilitation Timing:				
Total Rehabilitation Budg	et Costings:	Engineering Fee:		
Historical Data				
Year Built: Latest Biennial Inspection Latest Structure Rating: RehabHistory:	n: March 23, 2023	contract Number When Bu atest Specialized Inspecti atest Structure Condition	on:	
Regional Priority Number NatureOfProgramWork:	: F	Programmed Work Year:		

Description: Railing Systems: Moderate to severe rotting in timber posts.



Description: Railing Systems: Wrong connection to barrier wall.



Description: Approach Wearing surface: Moderate to severe potholing throughout.



Floment Groups	Aboto out	Site Number:	D 000	
Element Group:	Abutments		B-022	
Element Name:	Abutment walls	Width:	9.5	m
Element type:		Height:	3.25	m
Sub-element:		Length:	0	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	62	sqm
Environment:	Benian	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good: Rehab Needs:	62 Fair: 0 Poor: 0	Unit Cost:		
Rehab time period:	<u></u>	Estimated Cost:		
Quantity:	0	Estimated Cost:		
General Comments:				



nement Inspection				
Element Group:	Abutments	Site Number:	B-022	
Element Name:	Wingwalls	Width:	0	m
Element type:		Height:	3.25	m
Sub-element:		Length:	6.8	m
Material:	Cast-in-place Concrete	Count:	4	
Location:		Total Quantity:		sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good: Rehab Needs: Rehab time period:	44 Fair: 0 Poor: 0	Unit Cost:		
Quantity:	0	Estimated Cost:		
P				
General Comments:				
		2014		

Element Group:	Abutments	Site Number:	B-022	
Element Name:	Ballast walls	Width:	9.5	m
Element type:		Height:	1.3	m
Sub-element:		Length:	0	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	25	sqm
Environment:	Benign	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	25 Fair : 0 Poor : 0			
Rehab Needs:		Unit Cost:		
Rehab time period:	0	Estimated Cost:		

General Comments:

Limited inspection due to height of abutments.



Element Group:	Abutments	Site Number:	B-022
Element Name:	Bearings (elastomeric)	Width:	0 m
Element type:		Height:	0 m
Sub-element:		Length:	0 m
Material:	Elastomeric	Count:	8
Location:		Total Quantity:	8 each
Environment:	Benign	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: Good: Rehab Needs:	8 Fair: 0 Poor:	Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:	0	Estimated oost.	
Company Community			
General Comments:			
		2024	Jun 10 03:41 PM

nement Inspection			
Element Group:	Accessories (Attachments and Signs)	Site Number:	B-022
Element Name:	Signs	Width:	0 m
Element type:		Height:	0 m
Sub-element:		Length:	0 m
Material:	Steel	Count:	4
Location:		Total Quantity:	4 each
Environment:	Severe	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: Good:	4 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:	0		

Element Group: Element Name: Element type: Sub-element:	Barriers Barrier/Parapet Walls Parapet wall w/ a single railing	Site Number: Width: Height: Length:	B-022 0.2 1 44.6	m m m
Material: Location: Environment:	Cast-in-place Concrete Severe	Count: Total Quantity: Not inspected:	178	sqm
Perform. deficiencies: Maint needs: Condition Data (sqm):		Maintenance Type: Maint. Time Period:		
Rehab Needs: Rehab time period: Quantity: General Comments:	178 Fair: 0 Poor: 0	Unit Cost: Estimated Cost:		



Element Group:	Barriers	Site Number:	B-022	
Element Name:	Railing Systems	Width:	0 m	
Element type:	Flexi beam with timber posts	Height:	0.8 m	
Sub-element:		Length:	6 m	
Material:	Steel	Count:	4	
Location:	Approaches	Total Quantity:	24 m	
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:	Structural	
Maint needs:	Barrier/railing system repair	Maint. Time Period:	1 Year	
Condition Data (m): Exec: Good:	14 Fair: 8 Poor: 2			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0			

General Comments:

Moderate to severe rotting in timber posts. Wrong connection to barrier wall.



Element Group:	Beams/Main Longitudinal Elements	Site Number:	B-022
Element Name:	Girders (concrete)	Width:	0.66 m
Element type:		Height:	1.3 m
Sub-element:		Length:	31 m
Material:	Precast Concrete	Count:	4
Location:		Total Quantity:	568 sqm
Environment:	Benign	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec: 0 Good: Rehab Needs: Rehab time period:	568 Fair: 0 Poor: 0	Unit Cost:	
Quantity:	0	Estimated Cost:	
General Comments:			

Element Inspection				
Element Group:	Beams/Main Longitudinal Elements	Site Number:	B-022	
Element Name:	Diaphragms	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:	Precast Concrete	Count:	9	
Location:		Total Quantity:	9	each
Environment:	Benign	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Rehab Needs: Rehab time period: Quantity: General Comments:	0	Unit Cost: Estimated Cost:		



Element Group:	Decks	Site Number:	B-022	
Element Name:	Deck top (with thin slab)	Width:	9.5	m
Element type:		Height:	0	m
Sub-element:		Length:	31	m
Material:	Cast-in-place Concrete	Count:	1	
Location:		Total Quantity:	294	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	294 Fair : 0 Poor : 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	0	Estimated Cost:		
General Comments:				



Element Group:	Decks	Site Number:	B-022	
Element Name:	Drainage System	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:	Steel	Count:	8	
Location:		Total Quantity:	8	each
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: 0 Good: Rehab Needs: Rehab time period: Quantity: General Comments:	8 Fair: 0 Poor: 0	Unit Cost: Estimated Cost:		

-				
Element Group:	Decks	Site Number:	B-022	
Element Name:	Soffit - thin slab	Width:	1.25 m	
Element type:		Height:	0.3 m	
Sub-element:	Exterior	Length:	31 m	
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	96 sqm	
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Rehab Needs: Rehab time period: Quantity: General Comments:	96 Fair: 0 Poor: 0	Unit Cost: Estimated Cost:		
		2024	Jun 10 03:40 PM	

Element Inspection Element Group: Decks Site Number: B-022 **Element Name:** Soffit - thin slab Width: 7 Element type: Height: 0 m Sub-element: Interior Length: 31 m Material: Cast-in-place Concrete Count: 1 Location: **Total Quantity:** 217 sqm **Environment:** Benian Not inspected: Perform, deficiencies: Maintenance Type: Maint. Time Period: Maint needs: Condition Data (sqm): Exec: 0 Poor: 0 Good: 217 Fair: 0 Rehab Needs: **Unit Cost:** Rehab time period: **Estimated Cost:** 0 Quantity: **General Comments:** 2024 Jun 10 03:41 PM

Element Inspection			
Element Group:	Embankments & Streams	Site Number:	B-022
Element Name:	Embankments	Width:	0 m
Element type:		Height:	0 m
Sub-element:		Length:	0 m
Material:		Count:	4
Location:		Total Quantity:	4 each
Environment:	Moderate	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: 0 Good:	4 Fair: 0 Poor: 0		
Rehab Needs:		_	
ļ.		Unit Cost:	
Rehab time period:	0	Estimated Cost:	
Quantity:	0		
General Comments:			

2024 Jun 10 03:51 PM

Element Inspection				
Element Group:	Embankments & Streams	Site Number:	B-022	
Element Name:	Streams and Waterways	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:		Count:	1	
Location:		Total Quantity:	1	each
Environment:	Benian	Not inspected:		
5				
Perform. deficiencies:		Maintenance Type: Maint. Time Period:		
Maint needs:		Maint. Time Period:		
Condition Data (each):				
Exec: 0 Good:	1 Fair: 0 Poor: 0	_		
	1 1 1 10 1 001. 10			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0			
General Comments:				
				25
		No.		
			400	
		A STATE OF THE STA		
			The state of the s	
		The same of the		
	A CONTRACTOR OF THE SECOND			
200				
- May 1			-	

Element Inspection				
Element Group:	Foundations	Site Number:	B-022	
Element Name:	Foundation (below ground level)	Width:		m
Element type:		Height:		m
Sub-element:		Length:		m
Material:		Count:		
Location:		Total Quantity:		each
Environment:	Benian	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each):		_		
Exec: 0 Good:	O Fair: O Poor: O	_		
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0			
General Comments:				

Element Inspection Element Group: Site Number: B-022 Joints **Element Name:** Width: 0 Armouring/retaining devices Element type: Height: 0 m Sub-element: Length: 8.5 m Material: Steel Count: 4 Location: **Total Quantity:** 34 **Environment:** Severe Not inspected: Maintenance Type: Perform, deficiencies: Maint needs: Maint. Time Period: Condition Data (m): Exec: 0 Poor: 0 Good: 34 Fair: 0 Rehab Needs: **Unit Cost:** Rehab time period: **Estimated Cost:** 0 Quantity:

General Comments:



dement Inspection				
Element Group:	Joints	Site Number:	B-022	
Element Name:	Concrete end dams	Width:	8.5 r	n
Element type:		Height:	0 r	m
Sub-element:		Length:	0.35 r	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:		sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:	<u>'</u>	Maint. Time Period:		
Condition Data (sqm): Exec: Good:	6 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0		•	

2024 Jun 10 03:51 PM

Element Inspection			
Element Group:	Joints	Site Number:	B-022
Element Name:	Seals (strip)	Width:	0 m
Element type:	1	Height:	0 m
Sub-element:		Length:	8.5 m
Material:	Rubber	Count:	2
Location:		Total Quantity:	2 each
Environment:	Severe	Not inspected:	
Denferme defictements			
Perform. deficiencies: Maint needs:	Dridge alegains	Maintenance Type: Maint. Time Period:	Routine
waint needs:	Bridge cleaning	waint. Time Period:	1 Year
Condition Data (each):			
Exec: 0 Good:	2 Fair: 0 Poor:	0	
	12 1411. 0 1001.	O	
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:	0		
General Comments:			

2024 Jun 10 03:52 PM

Element Group:	Approaches Approach slabs	Site Number: Width:	B-022	m
Element type: Sub-element: Material:	Cast-in-place Concrete	Height: Length: Count:	6	m m
Location: Environment:	Moderate	Total Quantity: Not inspected:	96	sqm
Perform. deficiencies: Maint needs:		Maintenance Type: Maint. Time Period:		
Condition Data (sqm): Exec: Good:	92 Fair: 4 Poor: 0			
Rehab Needs: Rehab time period: Quantity:	None Recommended	Unit Cost: Estimated Cost:		
General Comments:				





Element Group:	Approaches	Site Number:	B-022	
Element Name:	Wearing surface	Width:	8	m
Element type:		Height:	0	m
Sub-element:		Length:	6	m
Material:	Gravel	Count:	2	
Location:		Total Quantity:	96	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm):				
Exec: Good:	88 Fair: 4 Poor: 4			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0		•	

General Comments:

Moderate to severe potholing throughout.



OSIM Biennial Inspection Report



Site Number:
N-052

Concession 2/3, Lot 5



East Elevation



Inventory Data			
Structure Name:	Concession 2/3, Lot 5	Site Number:	N-052
District:	Concession 2 & 3, Lot 5	Road Name:	Concession Rd 2 WGR
County:	Grey County	Owner:	West Grev
Township:		Skew:	0
Bridge or Culvert:	Bridge	AADT:	200
Structure Type:	Concrete Rigid Frame	Overall Struct. Width:	9.5 m
Number of Spans:	1	Roadway Width:	8.5 m
Direction of Structure:	North-South	Total Deck Length:	11.2 m
GPS Coordinates (Degr	rees)	Span (s):	9.1 m
Lati REVIEWED	tude: 44.133986	Total Deck Area:	106 sq.m
1	gitude: -80.845866	Current Load Limit:	0
Inspection Data			
Date of Inspection:	30-Jul-24		
	Andrew Burgess, P.Eng. & Joel Ziegler CET		
Equipment Used:	Sounding hammer, measuring equipment, GF	PS	
Weather Conditions:	Rain		
Temperature:	23		
Special Notes:	Special Notes: Bridge is in good condition, showing no signs of structural distress.		
Overall Inspection S	Summary		
Additional Investigation Required: Additional Investigation Cost: Rehabilitation Needs: Rehabilitation Timing: Total Rehabilitation Budget Costings: Next Inspection: 30-Jul-26			
Historical Data			
Year Built: Latest Biennial Inspectio Latest Structure Rating: RehabHistory:	September 15, 2022	Contract Number When Bu atest Specialized Inspecti atest Structure Condition	on:
Regional Priority Numbe NatureOfProgramWork:	r:	Programmed Work Year:	

Description: Wingwalls: Light to medium vertical crack with leachate staining.



Description: Barrier/Parapet walls (ext): Light to medium vertical crack with wetness and leachate stainin



Description: Deck top: Shallow popouts throughout.



Element Group:	Abutments	Site Number:	N-052	
Element Name:	Walls	Width:	9.5	m
Element type:	Leas of a rigid frame	Height:	1.6	m
Sub-element:		Length:		m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	30	sqm
Environment:	Benign	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:	Ì	Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	30 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:		Estimated Cost:		
General Comments:				



Element Group:	Abutments	Site Number:	N-052	
Element Name:	Wingwalls	Width:		m
Element type:		Height:	1.2	m
Sub-element:		Length:	12.1	m
Material:	Cast-in-place Concrete	Count:	4	
Location:		Total Quantity:	58	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	57 Fair: 1 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:				

General Comments:

Light to medium vertical crack with leachate staining.



иетет туресион			
Element Group:	Decks	Site Number:	N-052
Element Name:	Drainage system	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:	Steel	Count:	4
Location:		Total Quantity:	4 each
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: 0 Good:	4 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
			The state of the s
			-
	116 100 4		The state of
200			STATE OF THE PARTY OF
The last	SIV Y	100	The same of
	17%		
	1000		The second second

2024 Jul 30 01:35 PM

Element Group:	Decks	Site Number:	N-052
Element Name:	Soffit - thick slab	Width:	7.1 m
Element type:		Height:	m
Sub-element:	Interior	Length:	9.1 m
Material:	Cast-in-place Concrete	Count:	1
Location:		Total Quantity:	65 sqm
Environment:	Benian	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec: 0 Good:	65 Fair : 0 Poor : 0		
,,,	joe je		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			



_				
Element Group:	Decks	Site Number:	N-052	
Element Name:	Soffit - thick slab	Width:	1	m
Element type:		Height:	0.3	m
Sub-element:	Exterior	Length:	9.1	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	24	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	24 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:				
General Comments:				
		2024	Jul 30 01:35 P	M

Element Inspection			
Element Group:	Foundations	Site Number:	N-052
Element Name:	Foundation (below ground)	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	2
Location:		Total Quantity:	2
Environment:		Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data: Exec: Good:	0 Fair: 0 Poor: 0	_	
Rehab Needs:	jo ram jo rosn jo	Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:		Estimated Gost.	
General Comments:			

Element Group:	Approaches	Site Number:	N-052
Element Name:	Wearing surface	Width:	8.5 m
Element type:		Height:	m
Sub-element:		Length:	5 m
Material:	Stone Chip	Count:	2
Location:		Total Quantity:	85 sqm
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec: 0 Good:	85 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:	<u> </u>	Estimated Cost:	
Quantity:			
General Comments:			

Element Inspection			
Element Group:	Approaches Approach slab	Site Number: Width:	N-052 9.5 m
Element type: Sub-element: Material: Location: Environment: Perform. deficiencies: Maint needs:	Cast-in-place Concrete Moderate None	Height: Length: Count: Total Quantity: Not inspected: Maintenance Type: Maint. Time Period:	m 5 m 2
Condition Data: Exec: 0 Good: Rehab Needs: Rehab time period: Quantity: General Comments:	95 Fair: 0 Poor: 0	Unit Cost: Estimated Cost:	
No signs of settlement.			

024 Jul 30 01:38 PI

er/Parapet walls or in-place Concrete	Width: Height: Length:	0 0.8	m m
	Length:		
	_	5	
in-place Concrete	_		m
	Count:	4	
	Total Quantity:	16	sqm
re	Not inspected:		
	Maintenance Type:		
	Maint. Time Period:		
Fair: 0 Poor: 0			
	Unit Cost:		
	Estimated Cost:		
		Maint. Time Period: Fair: 0 Poor: 0 Unit Cost:	Maintenance Type: Maint. Time Period: Fair: 0 Poor: 0 Unit Cost:



Element Group:	Approaches	Site Number:	N-052	
Element Name:	Barrier/Parapet walls	Width:		m
Element type:		Height:	0.8	m
Sub-element:	Exterior	Length:	5	m
Material:	Cast-in-place Concrete	Count:	4	
Location:		Total Quantity:	16	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	15 Fair: 1 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:			r	

General Comments:

Light to medium vertical crack with wetness and leachate staining.



single railing	Width: Height: Length:	0.8	m m
	•		m
rete	Length:	144.0	
rete		11.2	m
1010	Count:	2	
	Total Quantity:	18	sqm
	Not inspected:		•
	Maintenance Type:		
	Maint. Time Period:		
Poor: 0			
	Unit Cost:		
	Estimated Cost:		
	Poor: 0	Not inspected: Maintenance Type: Maint. Time Period: Description: Unit Cost:	Not inspected: Maintenance Type: Maint. Time Period: Poor: 0 Unit Cost:

General Comments:



ziemeni Inspection			
Element Group:	Barriers	Site Number:	N-052
Element Name:	Barrier/Parapet walls	Width:	m
Element type:	Safety shape w/ a single railing	Height:	0.8 m
Sub-element:	Exterior	Length:	11.2 m
Material:	Cast-in-place Concrete	Count:	2
Location:		Total Quantity:	18 sqm
Environment:	Moderate	Not inspected:	J10 34
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec: O Good:	18 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			



Element Inspection			
Element Group:	Barriers	Site Number:	N-052
Element Name:	Hand railings	Width:	m
Element type:		Height:	m
Sub-element:		Length:	11.2 m
Material:	Steel	Count:	2
Location:		Total Quantity:	22 m
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (m): Exec: 0 Good:	22 Fair : 0 Poor : 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			

2024 Jul 30 01:37 PM

Shallow popouts throughout.

Element Group:	Decks	Site Number:	N-052	•
Element Name:	Deck top (with thick slab)	Width:	9.5	m
Element type:		Height:		m
Sub-element:		Length:	11.2	m
Material:	Cast-in-place Concrete	Count:	,	-
Location:		Total Quantity:	106	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	106 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:			-	
General Comments:				



Element Group:	Embankments and Streams	Site Number:	N-052	
Element Name:	Streams & waterways	Width:	m	
Element type:		Height:	m	
Sub-element:		Length:	m	
Material:		Count:	1	
Location:		Total Quantity:	1	
Environment:		Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data: Exec: 0 Good:	1 Fair: 0 Poor:	0		
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:				
General Comments:				
				_
		202	Jel 30 01:35 PM	

Element Inspection				
Element Group:	Embankments and Streams	Site Number:	N-052	
Element Name:	Embankments	Width:		m
Element type:		Height:		m
Sub-element:		Length:		m
Material:		Count:	4	
Location:	Ĭ	Total Quantity:	4	each
Environment:		Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: Good: Rehab Needs:	4 Fair: 0 Poor: 0	Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:		Estimated Cost.	1	
General Comments:				

2024 Jul 30 01:36 PM

Element Group:	Signs	Site Number:	N-052		
Element Name:	Signs	Width:		m	
Element type:		Height:		m	
Sub-element:		Length:		m	
Material:		Count:	4		
Location:		Total Quantity:	4	each	
Environment:	Severe	Not inspected:			
Perform. deficiencies:	None	Maintenance Type:	Structural		
Maint needs:	Sign Repair	Maint. Time Period:	1 Year		
Condition Data (each): Exec: Good: Pair: Poor: 2					
Rehab Needs:		Unit Cost:			
Rehab time period:		Estimated Cost:			
Quantity:					
General Comments:					





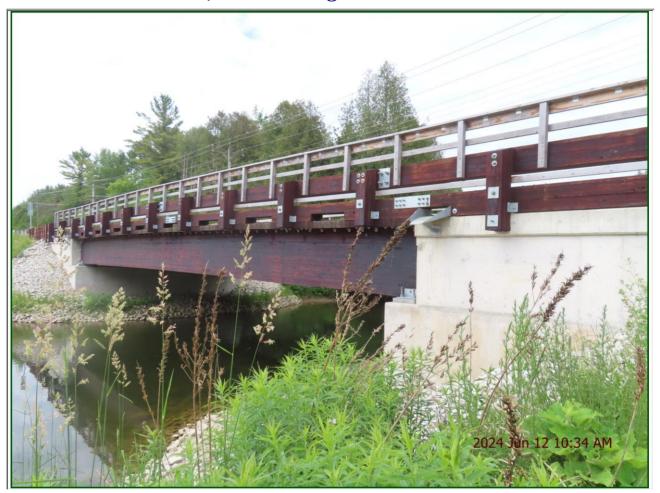
OSIM Biennial Inspection Report



Site Number:

B-028

Concession 2 & 3W, Lantz Bridge



East Elevation



Inventory Data			
Structure Name:	Concession 2 & 3W, Lantz Bridge	Site Number:	B-028
District:		Road Name:	Concession 2 WGR
County:	Grey County	Owner:	West Grey
Township:	West Grey	Skew:	0
Bridge or Culvert:	Bridge	AADT:	250
Structure Type:	Timber Deck w/ Timber Beams	Overall Struct. Width:	9.8 m
Number of Spans:	1	Roadway Width:	9 m
Direction of Structure:	North-South	Total Deck Length:	21.2 m
GPS Coordinates (Degre	ees)	Span (s):	15 m
Latit REVIEWED	tude: 44.192446	Total Deck Area:	208 sq.m
	gitude: -80.856540	Current Load Limit:	0
Inspection Data			
Date of Inspection:	12-Jun-24		
	Andrew Burgess, P.Eng. & Joel Ziegler CET		
	Sounding hammer, measuring equipment, GF	PS	
-	Cloudy		
Temperature: 15			
Special Notes: Bridge is in excellent condition, showing no signs of structural distress.			
Overall Inspection S	Summary		
BCI: 100 Next Inspection: 12-Jun-26 Additional Investigation Required: Priority:			
Additional Investigation Cost:			
Rehabilitation Needs:			
Rehabilitation Timing:			
Total Rehabilitation Budget Costings: Engineering Fee:			
Historical Data			
Year Built:	2021 C	ontract Number When Bu	ilt:
Latest Biennial Inspection		atest Specialized Inspecti	on:
Latest Structure Rating:		atest Structure Condition	
RehabHistory:			
Regional Priority Number	r: I	Programmed Work Year:	
NatureOfProgramWork:			

Description: Approach Wearing surface: Narrow transverse crack.



Description: Bearings: Possible flattening of elastomeric bearings (minor).



Element Group:	Decks	Site Number:	B-028	
Element Name:	Drainage system	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:	Steel	Count:	4	
Location:		Total Quantity:	4	each
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: 4 Good: 0 Fair: 0 Poor: 0				
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		

General Comments:



Element Group:	Approaches	Site Number:	B-028	
Element Name:	Wearing surface	Width:	9 m	
Element type:		Height:	0 m	
Sub-element:		Length:	6.5 m	
Material:	Asphalt	Count:	0	
Location:		Total Quantity:	59 sqm	
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 59 Good: 0 Fair: 0 Poor: 0				
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0			

General Comments:

Narrow transverse crack.



Element Group: Element Name: Element type: Sub-element: Material: Location: Environment:	Approaches Railing systems Timber Severe	Site Number: Width: Height: Length: Count: Total Quantity: Not inspected:	B-028 0 0 6.5 4 26	m m m
Perform. deficiencies:		Maintenance Type:	Į.	
Maint needs: Condition Data (m):		Maint. Time Period:		
`		_		
Exec: 26 Good: 0 Fair: 0 Poor: 0				
Rehab Needs:	·	Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0		,	

General Comments:



Element Group:	Approaches	Site Number:	B-028	
Element Name:	Curbs	Width:	0.3 m	
Element type:		Height:	0.3 m	
Sub-element:		Length:	6.5 m	
Material:	Timber	Count:	4	
Location:		Total Quantity:	26 m	
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (m): Exec: 26 Good: 0 Poor: 0				
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended	Estimated Cost:		

General Comments:



lement Inspection				
Element Group:	Approaches	Site Number:	B-028	
Element Name:	Approach slabs	Width:	9	m
Element type:		Height:	0	m
Sub-element:		Length:	6.5	m
Material:	Cast-in-place Concrete	Count:	0	
ocation:		Total Quantity:	59	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 59 Good:	0 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended 0	Estimated Cost:		
General Comments:				



Element Group:	Decks Wearing surface	Site Number: Width:	B-028	m
Element type: Sub-element:		Height:	0	m
Material:	Asphalt	Length: Count:	0	m
Location: Environment:	Severe	Total Quantity: Not inspected:	191	sqm
Perform. deficiencies: Maint needs:		Maintenance Type: Maint. Time Period:		
Condition Data (sqm):		_		
Exec: 191 Good: Rehab Needs:	O Fair: O Poor: O	Unit Cost:		
Rehab time period: Quantity:	None Recommended	Estimated Cost:		



Element Group:	Decks	Site Number:	B-028	
Element Name:	Deck top (with thin slab)	Width:	9.8	m
Element type:		Height:	0	m
Sub-element:		Length:	21.2	m
Material:	Timber	Count:	0	
Location:		Total Quantity:	208	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 208 Good:	0 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended 0	Estimated Cost:		



Element Group:	Sidewalks/ curbs	Site Number:	B-028
Element Name:	Curbs	Width:	0.3 m
Element type:		Height:	0.3 m
Sub-element:		Length:	21.2 m
Material:		Count:	2
Location:		Total Quantity:	42 m
Environment:	Severe	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (m): Exec: 42 Good:	0 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period: Quantity:	None Recommended	Estimated Cost:	



Element Group:	Barriers	Site Number:	B-028
Element Name:	Railing systems	Width:	0 m
Element type:		Height:	1.4 m
Sub-element:		Length:	21.2 m
Material:		Count:	2
Location:		Total Quantity:	42 m
Environment:	Severe	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (m):			
Exec: 42 Good:	0 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:	None Recommended	Estimated Cost:	
Quantity:	0		,
General Comments:			



Element Group:	Abutments Wingwalls	Site Number: Width:	B-028	m
Element type:	Jvviridwalis	Height:	2.3	m
Sub-element:		Length:	6	m
Material:	Cast-in-place Concrete	Count:	4	
Location:		Total Quantity:	28	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm):		_		
Exec: 28 Good:	0 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended 0	Estimated Cost:		



Element Group:	Beams/Main Longitudinal Elements	Site Number:	B-028	
Element Name:	Girders (timber)	Width:	0.25	m
Element type:		Height:	1.2	m
Sub-element:		Length:	21.2	m
Material:	Timber	Count:	8	
Location:		Total Quantity:	449	sqm
Environment:	Benign	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 449 Good:	0 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0			



Element Group:	Abutments	Site Number:	B-028	
Element Name:	Bearings (elastomeric)	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:	Elastomeric	Count:	16	
Location:		Total Quantity:	16	each
Environment:	Benian	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: 16 Good:	0 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
	None Recommended	Estimated Cost:		
Quantity:	0			

General Comments:

On steel plate. Possible flattening of elastomeric bearings (minor).



Element Group:	Abutments	Site Number:	B-028	
Element Name:	Ballast walls	Width:	9.8	m
Element type:		Height:	1.2	m
Sub-element:		Length:	0	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	24	sqm
Environment:	Benign	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 24 Good:	0 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended 0	Estimated Cost:		



Element Group:	Abutments	Site Number:	B-028	
Element Name:	Diaphragms	Width:	0.13	m
Element type:		Height:	0.9	m
Sub-element:		Length:	0	m
Material:	Timber	Count:	35	
Location:		Total Quantity:	35	each
Environment:	Benign	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: 35 Good:	0 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended 0	Estimated Cost:		



Foundations	Site Number:	B-028
		r
Foundation (below ground level)	Width:	0 m
	Height:	0 m
	Length:	0 m
		2
		2 each
Benian	Not inspected:	
	Maintenance Type:	
	Maint. Time Period:	
2 Fair: 0 Poor: 0		
	Unit Cost:	
None Recommended	Estimated Cost:	
0		
	Benian 2 Fair: 0 Poor: 0 None Recommended	Height: Length: Count: Total Quantity: Not inspected: Maintenance Type: Maint. Time Period: Unit Cost: None Recommended Estimated Cost:

Element Inspection Element Group: Site Number: Joints B-028 **Element Name:** Width: 0 Seals (paved over) Element type: Height: 0 m Sub-element: Length: 0 m Material: 2 Count: Location: 2 **Total Quantity:** each **Environment:** Severe Not inspected: Perform, deficiencies: Maintenance Type: Maint. Time Period: Maint needs: Condition Data (each): Exec: 2 Poor: 0 Good: 0 Fair: 0 Rehab Needs: **Unit Cost:** Rehab time period: None Recommended **Estimated Cost:** 0 Quantity:



lamant Craun.	E 1 1 1 101	Site Number:	D 000
lement Group:	Embankments and Streams		B-028
lement Name:	Streams & waterways	Width:	m
lement type:		Height:	m
ub-element:		Length:	m
laterial:		Count:	1
ocation:		Total Quantity:	1
nvironment:		Not inspected:	
erform. deficiencies:	None	Maintenance Type:	
laint needs:		Maint. Time Period:	
Rehab Needs: Rehab time period:			
condition Data: xec: 1 Good:	0 Fair: 0 Poor:		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			

2024 Jun 12 10:37 AM

Element Group:	Abutments	Site Number:	B-028	
Element Name:	Walls	Width:	9.8 m	n
Element type:		Height:	1.7 m	n
Sub-element:		Length:	0 m	n
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	33 s	qm
Environment:	Benign	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 33 Good:	0 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0		r	



Element Name: Embankments V Element type: H Sub-element: L Material: C Location: T Environment: None Main Maint needs: None Main Condition Data (each): Exec: 4 Good: 0 Fair: 0 Poor: 0	Width: m Height: m Count: 4 Total Quantity: 4 each Not inspected: aintenance Type: aint. Time Period: Unit Cost: Estimated Cost:
Element type: Sub-element: Material: Location: Environment: Perform. deficiencies: None Main Maint needs: Condition Data (each): Exec: 4 Good: 0 Fair: 0 Poor: 0 Rehab Needs: Rehab time period: Quantity:	Height: m Length: m Count: 4 Total Quantity: 4 each Not inspected: aintenance Type: aint. Time Period: Unit Cost:
Sub-element: Material: Location: Environment: Perform. deficiencies: Maint needs: Condition Data (each): Exec: 4 Good: 0 Fair: 0 Poor: 0 Rehab Needs: Rehab time period: Quantity:	Length: m Count: 4 Total Quantity: 4 each Not inspected: aintenance Type: aint. Time Period: Unit Cost:
Material: Location: Environment: Perform. deficiencies: Main Maint needs: Condition Data (each): Exec: 4 Good: 0 Fair: 0 Poor: 0 Rehab Needs: Rehab time period: Quantity:	Count: Total Quantity: Not inspected: aintenance Type: aint. Time Period: Unit Cost:
Location: Environment: Perform. deficiencies: Maint needs: Condition Data (each): Exec: 4 Good: 0 Fair: 0 Poor: 0 Rehab Needs: Rehab time period: Quantity:	Total Quantity: 4 each Not inspected: aintenance Type: aint. Time Period: Unit Cost:
Location: Environment: Perform. deficiencies: Maint needs: Condition Data (each): Exec: 4 Good: 0 Fair: 0 Poor: 0 Rehab Needs: Rehab time period: Quantity:	Total Quantity: 4 each Not inspected: aintenance Type: aint. Time Period: Unit Cost:
Perform. deficiencies: None Main Maint needs: Main Condition Data (each): Exec: 4 Good: 0 Fair: 0 Poor: 0 Rehab Needs: Rehab time period: Quantity:	Not inspected: aintenance Type: aint. Time Period: Unit Cost:
Maint needs: Condition Data (each): Exec: 4 Good: 0 Fair: 0 Poor: 0 Rehab Needs: Rehab time period: Quantity:	Unit Cost:
Condition Data (each): Exec: 4 Good: 0 Fair: 0 Poor: 0 Rehab Needs:	Unit Cost:
Rehab Needs: Rehab time period: Quantity:	
Quantity:	
Rehab time period: Quantity:	
Quantity:	Estimated Cost:
,	
General Comments:	
134/4	

2024 Jun 12 10:41 AM

Element Inspection			
Element Group:	Signs	Site Number:	B-028
Element Name:	Signs	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:	Steel	Count:	8
Location:		Total Quantity:	8 each
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: 8 Good: Rehab Needs:	0 Fair: 0 Poor: 0	=	
		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			

2024 Jun 12 10:42 AM

Element Group:	Decks	Site Number:	B-028	
Element Name:	Soffit - thin slab	Width:	9.8	m
Element type:		Height:	0	m
Sub-element:		Length:	21.2	m
Material:	Timber	Count:	0	
Location:		Total Quantity:	208	sqm
Environment:	Benign	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 208 Good:	0 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0		,	
General Comments:				
I				



OSIM Biennial Inspection Report



Site Number:
B-004

Concession 8 & 9, NDR, Lot 18 Bridge



South Elevation



Inventory Data					
Structure Name:	Concession 8 & 9, NDR, Lot 18 Bridge	Site Number:	B-004		
District:		Road Name:	Concession 8		
County:	Grey County	Owner:	West Grey		
Township:	West Grey	Skew:	0		
Bridge or Culvert:	Bridge	AADT:	150		
Structure Type:	Concrete Rigid Frame	Overall Struct. Width:	6.9 m		
Number of Spans:	1	Roadway Width:	6.2 m		
Direction of Structure:	East-West	Total Deck Length:	8.7 m		
GPS Coordinates (Degre	ees)	Span (s):	7.6 m		
Latit General	ude: 44.237777	Total Deck Area:	60 sq.m		
	gitude: -80.963828	Current Load Limit:	0		
Inspection Data					
Date of Inspection:	13-Jun-24				
	A. Burgess P.Eng. & J. Ziegler CET				
	Sounding hammer, measuring equipment, GP	S			
-					
Temperature:	20				
Special Notes:	Bridge is in fair to good condition, showing no	signs of structural distress.			
Overall Inspection S	ummary				
BCI: 72 Next Inspection: 13-Jun-26 Additional Investigation Required: Priority:					
Additional Investigation (Cost:				
Rehabilitation Needs:					
Rehabilitation Timing:					
Total Rehabilitation Budget Costings: Engineering Fee:					
Historical Data					
Year Built:	1935 C	ontract Number When Bu	ilt:		
Latest Biennial Inspection	n: March 23, 2023	atest Specialized Inspecti	on:		
Latest Structure Rating:		atest Structure Condition			
RehabHistory:	P				
Regional Priority Number	: F	Programmed Work Year:			
NatureOfProgramWork:					

Description: Wingwalls: Light to medium vertical cracking with leachate staining.



Description: Approach Wearing Surface: Moderate to severe potholes throughout.



Description: Deck top: Shallow to moderate pop outs throughout.



Description: Soffit (ext): Moderate to severe delamination throughout.



Description: Soffit (ext): Severe spalling on south.



Description: Soffit (ext): Light to medium horizontal cracking with leachate staining.



Description: Soffit (int): Medium to wide longitudinal cracking with leachate staining and stalactite.



Description: Soffit (int): Severe spalling with exposed reinforcing throughout.



Element Group:	Abutments	Site Number:	B-004	
Element Name:	Abutment walls	Width:	6.9	m
Element type:		Height:	1.35	m
Sub-element:		Length:	0	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	19	sqm
Environment:	Benign	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	19 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0			
General Comments:				



Element Group:	Abutments	Site Number: Width:	B-004
Element Name:	Wingwalls	wiatn:	0 m
Element type:		Height:	1.35 m
Sub-element:		Length:	3 m
Material:	Cast-in-place Concrete	Count:	4
Location:		Total Quantity:	8 sqm
Environment:	Moderate	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec: Good:	7 Fair: 1 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period: Quantity:	0	Estimated Cost:	

General Comments:

Light to medium vertical cracking with leachate staining.



Element Inspection					
Element Group:	Accessories (Attachments and Signs)	Site Number:	B-004		
Element Name:	Signs	Width:	0	m	
Element type:		Height:	0	m	
Sub-element:		Length:	0	m	
Material:	Steel	Count:	8		
Location:		Total Quantity:	8	each	
Environment:	Severe	Not inspected:			
Perform. deficiencies:		Maintenance Type:			
Maint needs:		Maint. Time Period:			
Exec: Good:	8 Fair: 0 Poor: 0	Unit Cost:			
Rehab time period:					
Quantity:	0	Estimated Cost:			
General Comments:					



Element Group:	Approaches	Site Number:	B-004	
Element Name:	Curbs	Width:	0.35 m	
Element type:		Height:	0.35 m	
Sub-element:		Length:	3 m	
Material:	Cast-in-place Concrete	Count:	4	
Location:	Approaches	Total Quantity:	8 m	
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (m): Exec: 0 Good:	8 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0			
General Comments:				



Moderate to severe potholes throughout.

Element Group:	Approaches	Site Number:	B-004	
Element Name:	Wearing surface	Width:	6.2	m
Element type:		Height:	0	m
Sub-element:		Length:	3	m
Material:	Gravel	Count:	2	
Location:		Total Quantity:	37	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	31 Fair: 4 Poor: 2			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	0	Estimated Cost:		
General Comments:				



Element Inspection				
Element Group:	Barriers	Site Number:	B-004	
Element Name:	Railing Systems	Width:	0	m
Element type:	Flexi beam with steel posts	Height:	0.85	m
Sub-element:		Length:	44	m
Material:	Steel	Count:	2	
Location:		Total Quantity:	88	m
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Exec: 0 Good:	88 Fair: 0 Poor: 0	Unit Cost		
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0		•	
General Comments:				
			A SECTION	ST SAME OF
			* 1	



Element Group: Element Name: Element type: Sub-element:	Decks Deck top (with thick slab)	Site Number: Width: Height: Length:	0	m m m
Material: Location: Environment:	Cast-in-place Concrete Severe	Count: Total Quantity: Not inspected:	60	sqm
Perform. deficiencies: Maint needs: Condition Data (sqm):		Maintenance Type: Maint. Time Period:		
Rehab Needs: Rehab time period: Quantity:	59 Fair : 1 Poor : 0	Unit Cost: Estimated Cost:		

General Comments:

Shallow to moderate pop outs throughout. Sediment on bridge at time of inspection, limited inspection.



Recommend to install steel drain pipe.

Element Group:	Decks	Site Number:	B-004
Element Name:	Drainage System	Width:	0 m
Element type:		Height:	0 m
Sub-element:		Length:	0 m
Material:	Steel	Count:	4
Location:		Total Quantity:	4 each
Environment:	Severe	Not inspected:	
Perform. deficiencies:		Maintenance Type:	Structural
Maint needs:	Install/extend drain pipes	Maint. Time Period:	1 Year
Condition Data (each): Exec: 0 Good:	0 Fair: 4 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:	0		
General Comments:			



Element Group:	Decks	Site Number:	B-004		
Element Name:	Soffit - thick slab	Width:	1	m	
Element type:		Height:	0.3	m	
Sub-element:	Exterior	Length:	7.6	m	
Material:	Cast-in-place Concrete	Count:	2		
Location:		Total Quantity:	20	sqm	
Environment:	Moderate	Not inspected:			
Perform. deficiencies:		Maintenance Type:			
Maint needs:		Maint. Time Period:			
Condition Data (sqm): Exec: 0 Good: 17 Fair: 2 Poor: 1					
Rehab Needs:		Unit Cost:			
Rehab time period:		Estimated Cost:			
Quantity:	0				

General Comments:

Moderate to severe delamination throughout. Severe spalling on south. Light to medium horizontal cracking with leachate staining.



Element Group:	Decks	Site Number:	B-004		
Element Name:	Soffit - thick slab	Width:	4.9	m	
Element type:		Height:	0	m	
Sub-element:	Interior	Length:	7.6	m	
Material:	Cast-in-place Concrete	Count:	1		
Location:		Total Quantity:	37	sqm	
Environment:	Benign	Not inspected:			
Perform. deficiencies:		Maintenance Type:			
Maint needs:		Maint. Time Period:			
Condition Data (sqm): Exec: 0 Good: 27 Fair: 8 Poor: 2					
Rehab Needs:		Unit Cost:			
Rehab time period:		Estimated Cost:			
Quantity:	0		•		

General Comments:

Medium to wide longitudinal cracking with leachate staining and stalactite. Severe spalling with exposed reinforcing throughout.



ziemeni Inspection					
Element Group:	Embankments & Streams	Site Number:	B-004		
Element Name:	Embankments	Width:	0	m	
Element type:		Height:	0	m	
Sub-element:		Length:	0	m	
Material:		Count:	4		
Location:		Total Quantity:	4	each	
Environment:	Moderate	Not inspected:			
Perform. deficiencies:		Maintenance Type:			
Maint needs:		Maint. Time Period:			
Condition Data (each): Exec: O Good: 4 Fair: 0 Poor: 0					
Rehab Needs:		Unit Cost:			
Rehab time period:					
Quantity:	0	Estimated Cost:			
Quantity.	ū				
General Comments:					
2453			To Xa	W 64	



Liement Inspection					
Element Group:	Embankments & Streams	Site Number:	B-004	Ī	
Element Name:	Streams and Waterways	Width:	0	m	
Element type:		Height:	0	m	
Sub-element:		Length:	0	m	
Material:		Count:	1		
Location:		Total Quantity:	1	each	
Environment:	Benian	Not inspected:			
Perform. deficiencies:		Maintenance Type:			
Maint needs:		Maint. Time Period:			
Exec: 0 Good:	1 Fair: 0 Poor:	Unit Cost:			
Rehab time period:	, 				
Quantity:	0	Estimated Cost:			
General Comments:					
	VIIIAA		C3/42	VI-27	
			AX		



Element Inspection			
Element Group:	Foundations	Site Number:	B-004
Element Name:	Foundation (below ground level)	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:	Cast-in-place Concrete	Count:	
Location:		Total Quantity:	each
Environment:	Benian	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec:	0 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:	0		•
General Comments: No signs of settlement.			

Element Group:	Sidewalks/ curbs	Site Number:	B-004
Element Name:	Curbs	Width:	0.35 m
Element type:		Height:	0.35 m
Sub-element:		Length:	8.7 m
Material:	Cast-in-place Concrete	Count:	2
Location:	On deck	Total Quantity:	12 m
Environment:	Severe	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (m):			
Exec: Good:	12 Fair : 0 Poor : 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:	0		,

General Comments:



OSIM Biennial Inspection Report



Site Number:
N-199

Culvert, Concession 12, Lot 26



East Approach



Inventory Data					
Structure Name:	Culvert, Concession 12, Lot 26	Site Number:	N-199		
District:	Conc.12 Lot 26	Road Name:	Concession Rd 12		
County:	Grey County	Owner:	West Grev		
Township:		Skew:	0		
Bridge or Culvert:	Culvert	AADT:	1000		
Structure Type:	CSP (arch)	Overall Struct. Width:	17.8 m		
Number of Spans:	1	Roadway Width:	7.8 m		
Direction of Structure:	North-South	Total Deck Length:	3.2 m		
GPS Coordinates (Deg	· ·	Span (s):	3.2 m		
REVIEWED Lat	44.074262	Total Deck Area:	57 sq.m		
	ngitude: -80.876015	Current Load Limit:	0		
Inspection Data					
Date of Inspection:	31-Jul-24				
Name of Inspector:	Andrew Burgess, P.Eng. & Joel Ziegler CET				
Equipment Used:	Sounding hammer, measuring equipment, G	GPS			
Weather Conditions:					
Temperature:	23				
Special Notes:	Special Notes: Culvert is in good condition, showing no signs of structural distress.				
Overall Inspection	Summary				
Additional Investigation Required: Additional Investigation Cost: Rehabilitation Needs: Rehabilitation Timing: Total Rehabilitation Budget Costings: Engineering Fee:					
v		<u> </u>			
•	Copto				
_	74.9	Latest Structure Condition			
-		B			
		Programmed Work Year:			
Year Built: Latest Biennial Inspecti Latest Structure Rating: RehabHistory: Regional Priority Numb NatureOfProgramWork:	74.9	Contract Number When Bu Latest Specialized Inspecti Latest Structure Condition Programmed Work Year:	on:		

Description: Wearing Surface: Light alligator cracking along road edge.



Description: Barrel: Improper splice bolt pattern, no signs of cracking.



Description: Barrel: View from south.



Element Group:	Decks	Site Number:	N-199	
Element Name:	Wearing surface	Width:	7.8	m
Element type:		Height:	0	m
Sub-element:		Length:	3.2	
Material:	Asphalt	Count:	0	
Location:		Total Quantity:	25	sqm
Environment:	Moderate	Not inspected:		•
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	17 Fair: 8 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0		,	

General Comments:

Light alligator cracking along road edge.



Element Inspection			
Element Group:	Embankments & Streams	Site Number:	N-199
Element Name:	Embankments	Width:	0 m
Element type:		Height:	0 m
Sub-element:		Length:	0 m
Material:		Count:	4
Location:		Total Quantity:	4 each
Environment:		Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Rehab Needs:	: 4 Fair: 0 Poor	Unit Cost:	
		Unit Cost:	
Rehab time period:	None Recommended	Estimated Cost:	
Quantity:	0		
General Comments:			

2024 Jul 31 11:30 AM

Element Group:	Culverts	Site Number:	N-199
Element Name:	Inlet Components	Width:	0 m
Element type:		Height:	0 m
Sub-element:		Length:	0 m
Material:		Count:	1
Location:	North	Total Quantity:	1 sqm
Environment:	Moderate	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec: 0 Good:	1 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:	None Recommended	Estimated Cost:	
Quantity:	0		
General Comments:			
1			



Etement Inspection				
Element Group:	Culverts	Site Number:	N-199	
Element Name:	Outlet Components	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:		Count:	1	
Location:	South	Total Quantity:	1	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	1 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0		,	
General Comments:				
1				



Element Group:	Embankments & Streams	Site Number:	N-199	·
Element Name:	Streams and Waterways	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:		Count:	1	
Location:		Total Quantity:	1	each
Environment:		Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: Good:	1 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0		,	
General Comments:				
1				



Element Group:	Culverts	Site Number:	N-199
Element Name:	Barrels	Width:	3.2 m
Element type:		Height:	0 m
Sub-element:		Length:	17.8 m
Material:	Corrugated Steel	Count:	0
Location:		Total Quantity:	195 sqm
Environment:	Benian	Not inspected:	
Perform, deficiencies:		Maintenance Type:	
Maint needs:	,	Maint. Time Period:	
Condition Data (sqm): Exec: Good:	195 Fair : 0 Poor : 0		
Rehab Needs:		Unit Cost:	
Rehab time period:	None Recommended	Estimated Cost:	

General Comments:

Quantity:

Improper splice bolt pattern, no signs of cracking.

0



OSIM Biennial Inspection Report



Site Number:

Stonehill Road Culvert



West Approach



Inventory Data			
Structure Name:	Stonehill Road Culvert	Site Number:	EG-001
District:		Road Name:	Stonehill Road
County:	West Grey	Owner:	Township
Township:		Skew:	0
Bridge or Culvert:	Culvert	AADT:	0
Structure Type:	CSP (round)	Overall Struct. Width:	6.5 m
Number of Spans:	1	Roadway Width:	5.8 m
Direction of Structure:	North-South	Total Deck Length:	1.3 m
GPS Coordinates (Degre	ees)	Span (s):	1.3 m
Latit	ude: 44.165560	Total Deck Area:	8 sq.m
Long	gitude: -80.674724	Current Load Limit:	0
Inspection Data			
Date of Inspection:	11-Jun-24		
	A. Burgess P.Eng. & J. Ziegler CET		
	Sounding hammer, measuring equipment, GP	'S	
	Sunny		
_	17		
	Culvert has failed recommend replacement.		
J.	·		
Overall Inspection S	ummary		
Additional Investigation of Additional Investigation of Rehabilitation Needs: Rehabilitation Timing: Total Rehabilitation Budge	Cost:		riority:
Year Built:	C	ontract Number When Bu	ilt:
Latest Biennial Inspection	n: Li	atest Specialized Inspecti	on:
Latest Structure Rating:		atest Structure Condition	
RehabHistory:	ß		
Regional Priority Number NatureOfProgramWork:	: F	Programmed Work Year:	

Description: Barrel: View from North.



Description: Outlet: Minor scouring.



Description: Barrel: Severe sag in south side.



Description: Barrel: Severe corrosion and perforations throughout.



Description: Barrel: Severe sag at mid barrel and north side of barrel.



Description: Inlet: Light corrosion and perforation.



Description: Retaining Walls: General



Description: Embankments: Severe pothole forming above sag location.



Element Group:	Culverts	Site Number:	EG-001	
Element Name:	Outlet Components	Width:	1.3	m
Element type:		Height:	1.3	m
Sub-element:		Length:	6.5	m
Material:	Steel	Count:	1	
Location:		Total Quantity:	1	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	0 Fair: 1 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0		,	

General Comments:

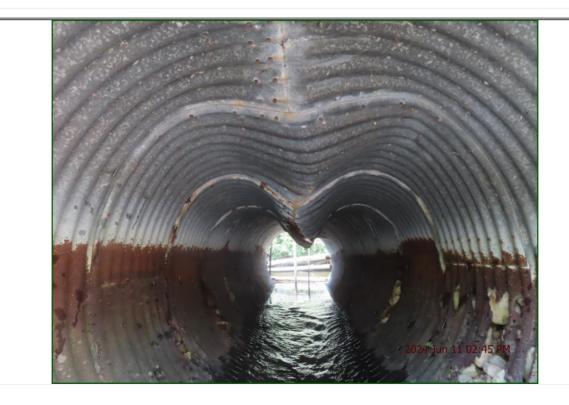
Minor scouring.



Element Group:	Culverts Barrels	Site Number: Width:	EG-001	m
Element type: Sub-element: Material:	Steel	Height: Length:	6.5	m m
Location: Environment:	Moderate	Count: Total Quantity: Not inspected:	25	sqm
Perform. deficiencies: Maint needs:		Maintenance Type: Maint. Time Period:		
Condition Data (sqm): Exec: Good:	0 Fair: 15 Poor: 10			
Rehab Needs: Rehab time period:	None Recommended	Unit Cost: Estimated Cost:		

General Comments:

Severe sag in south side. Severe corrosion and perforations throughout. Severe sag at mid barrel and north side of barrel.



Element Group:	Culverts	Site Number:	EG-001	
Element Name:	Inlet Components	Width:	1.3	m
Element type:		Height:	1.3	m
Sub-element:		Length:	6.5	m
Material:		Count:	1	
Location:		Total Quantity:	1	sqm
Environment:		Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	0 Fair: 1 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended	Estimated Cost:		

General Comments:

Corrosion and perforation.



Element Group:	Retaining Walls	Site Number:	EG-001	
Element Name:	Walls	Width:	0	m
Element type:		Height:	1.2	m
Sub-element:		Length:	2.2	m
Material:	Hybrid	Count:	4	
Location:		Total Quantity:	11	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	7 Fair: 4 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended	Estimated Cost:		
additity.	-			

General Comments:

Gabian stone held back by timber. Retaining walls on south side appear stable.



Element Group:	Embankments & Streams	Site Number:	EG-001	
Element Name:	Streams and Waterways	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:		Count:	1	
Location:		Total Quantity:	1	each
Environment:		Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: Good:	1 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0			
General Comments:				



Element Group:	Embankments & Streams	Site Number:	EG-001	
Element Name:	Embankments	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:		Count:	4	
Location:		Total Quantity:	4	each
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: Good:	4 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended 0	Estimated Cost:		

General Comments:

Severe pothole forming above sag location.



Element Group:	Decks	Site Number:	EG-001	
Element Name:	Wearing surface	Width:	1.2 m	
Element type:		Height:	0 m	
Sub-element:		Length:	6.5 m	
Material:		Count:	1	
Location:		Total Quantity:	8 sqm	
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		Ī
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good: Rehab Needs:	8 Fair: 0 Poor: 0	Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		_
Quantity:	0	Zominatou Goon	1	
		2024	Jun 11 02:52 PM	

OSIM Biennial Inspection Report



Site Number:

Concession 2-3N, Lot 32



West Approach



Inventory Data				
Structure Name:	Concession 2-3N, Lot 32	Site Number:	G-044	
District:	Concession 2 & 3N, Lot 32, Northline Road	Road Name:	N Line	
County:	Grey County	Owner:	West Grev	
Township:		Skew:	0	
Bridge or Culvert:	Culvert	AADT:	100	
Structure Type:	Concrete Arch	Overall Struct. Width:	6.1 m	
Number of Spans:	1	Roadway Width:	5.5 m	
Direction of Structure:	North-South	Total Deck Length:	16.7 m	
GPS Coordinates (Degr	rees)	Span (s):	13.7 m	
Lati	tude: 44.215165	Total Deck Area:	102 sq.m	
Lon	gitude: -80.693946	Current Load Limit:	5	
Inspection Data				
Date of Inspection:	11-Jun-24			
	Andrew Burgess, P.Eng. & Joel Ziegler CET			
Equipment Used:	Sounding hammer, measuring equipment, GP	S		
Weather Conditions:	Sunny			
Temperature:	17			
Special Notes:	Culvert is in poor condition, schedule for replace	cement. Recommend follow	up inspection in 1 year.	
Overall Inspection S	Summary			
BCI: 51	Next Inspection: 11-Jun-25		riority:	
Additional Investigation			,	
Rehabilitation Needs:	Replace			
Rehabilitation Timing:	1 to 5 years			
Total Rehabilitation Budg		Engineering Fee:	\$106,560	
Historical Data				
Year Built:	1920 Ca	ontract Number When Bui	ilt:	
Latest Biennial Inspectio	n: March 24, 2023 La	test Specialized Inspection	on:	
Latest Structure Rating:	51 La	test Structure Condition:		
RehabHistory:	-			
Regional Priority Number	r: P	rogrammed Work Year:		
NatureOfProgramWork:				

Description: Barrier/Parapet walls: Severe spalling and disintegration throughout.



Description: Curbs: Severe spalling throughout.



Description: Signs: Impact damage on south west (minor).



Description: Inlet: Severe spalling and disintegration throughout.



Description: Barrel: Severe spalling with exposed reinforcing throughout.



Description: Barrel: Severe scouring and disintegration at waterline at both ends.



Page 5 of 17

Description: Barrel: View from South.



Description: Outlet: Severe spalling and disintegration throughout.



Page 6 of 17

Description: Outlet: Severe scouring at waterline resulting in undermined structure.



Element Group:	Culvert (overall)	Site Number:	G-044
Element Name:	All Elements	Width:	6.1 m
Element type:		Height:	0 m
Sub-element:		Length:	16.7 m
Material:		Count:	1
Location:		Total Quantity:	102 sqm
Environment:		Not inspected:	1102 3qm
Perform. deficiencies:	Load carrying capacity	Maintenance Type:	
Maint needs:	Load carrying capacity	Maint. Time Period:	
Condition Data (sqm): Exec: Good: Rehab Needs:	0 Fair: 0 Poor:	Unit Cost:	\$8000 / sq.m
Rehab time period:	1 - 5 Years	Estimated Cost:	\$888,000
Quantity:	111 sq.m		

Element Group:	Decks	Site Number:	G-044	
Element Name:	Wearing surface	Width:	5.5	m
Element type:		Height:	0	m
Sub-element:		Length:	16.7	m
Material:	Gravel	Count:	0	
Location:		Total Quantity:	92	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	92 Fair : 0 Poor : 0			
Rehab Needs:	102	Unit Cost:		
Tronian Trooner	None Decemmended			
Rehab time period: Quantity:	None Recommended 0	Estimated Cost:	<u> </u>	
General Comments:				



Element Group:	Barriers	Site Number:	G-044	
Element Name:	Barrier/Parapet walls	Width:	0	m
Element type:		Height:	1	m
Sub-element:		Length:	16.7	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	33	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	13 Fair: 10 Poor: 10			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0		,	

General Comments:

Severe spalling and disintegration throughout.



Element Group:	Sidewalks/ curbs	Site Number:	G-044
Element Name:	Curbs	Width:	0.2 m
Element type:		Height:	0.25 m
Sub-element:		Length:	16.7 m
Material:	Cast-in-place Concrete	Count:	2
Location:		Total Quantity:	33 m
Environment:	Severe	Not inspected:	
Perform, deficiencies:		Maintenance Type:	
renorm. denciencies.		Maintenance Type.	
Maint needs:		Maint. Time Period:	
Condition Data (m): Exec: Good:	21 Fair: 6 Poor: 6		
Rehab Needs:		Unit Cost:	
Rehab time period:	None Recommended	Estimated Cost:	
Quantity:	0		

General Comments:

Severe spalling throughout. Partially covered in sediment.



Element Group:	Accessories	Site Number:	G-044	
Element Name:	Signs	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:		Count:	4	
Location:		Total Quantity:	4	each
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:	Routine	
Maint needs:	Sign Repair	Maint. Time Period:	1 Year	
Condition Data (each):		_		
Exec: 0 Good:	3 Fair: 1 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0		P	

General Comments:

Impact damage on south west (minor).



Element Group:	Embankments & Streams	Site Number:	G-044	
Element Name:	Embankments	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:		Count:	4	
Location:		Total Quantity:	4	each
Environment:		Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: 0 Good:	4 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended	Estimated Cost:		

General Comments:

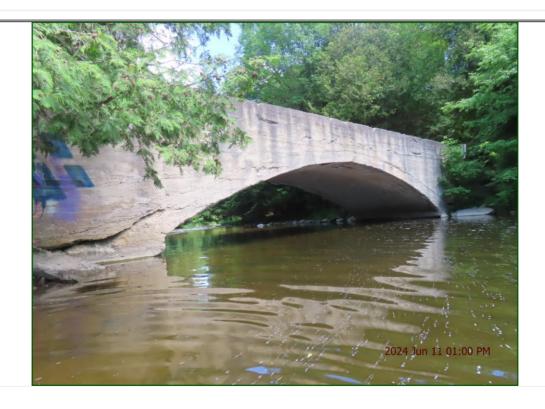
Very steep embankments, recommend approach protection.



Element Group:	Culverts	Site Number:	G-044	
Element Name:	Inlet Components	Width:	16.7	m
Element type:		Height:	5.5	m
Sub-element:		Length:	0	m
Material:	Cast-in-place Concrete	Count:	0	-
Location:	South	Total Quantity:	61	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	45 Fair: 8 Poor: 8			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0		,	

General Comments:

Severe spalling and disintegration throughout.



Element Group:	Culverts	Site Number:	G-044	
Liement Group.	Culverts	Site Number.	JG-044	
Element Name:	Barrels	Width:	16.7	m
Element type:		Height:	5.5	m
Sub-element:		Length:	6.1	m
Material:	Cast-in-place Concrete	Count:	0	
Location:		Total Quantity:	102	sqm
Environment:	Benian	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	52 Fair: 30 Poor: 20			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0		-	

General Comments:

Severe spalling with exposed reinforcing throughout. Severe scouring and disintegration at waterline at both ends, under water. Scouring around waterline beginning to undermine structure.



Element Inspection				
Element Group:	Embankments & Streams	Site Number:	G-044	
Element Name:	Streams and Waterways	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:		Count:	1	
Location:		Total Quantity:	1	each
Environment:		Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: Good:	1 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0		1	
General Comments:				



Element Group:	Culverts	Site Number:	G-044	
Element Name:	Outlet Components	Width:	16.7	m
Element type:		Height:	5.5	m
Sub-element:		Length:	0	m
Material:	Cast-in-place Concrete	Count:	0	
Location:	North	Total Quantity:	61	sqm
Environment:	Moderate	Not inspected:		•
Perform. deficiencies:		Maintananaa Tynas		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	25 Fair: 18 Poor: 18	3		
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0			

General Comments:

Severe spalling and disintegration throughout. Severe scouring at waterline resulting in undermined structure, partially under water.

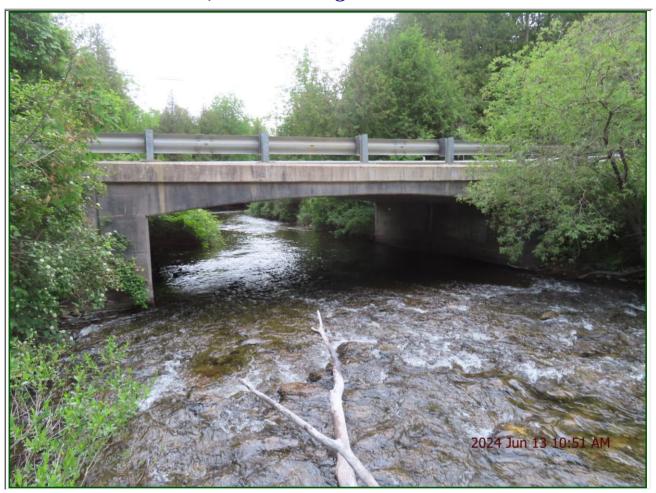


OSIM Biennial Inspection Report



Site Number:
B-005

Concession 10 & 11, Lot 25 Bridge



North Elevation



Inventory Data					
Structure Name:	Concession 10 & 11, Lot 25 Bridge	Site Number:	B-005		
District:		Road Name:	Concession 10		
County:	Grey County	Owner:	West Grey		
Township:	West Grey	Skew:	0		
Bridge or Culvert:	Bridge	AADT:	150		
Structure Type:	Concrete Rigid Frame	Overall Struct. Width:	6.8 m		
Number of Spans:	1	Roadway Width:	6 m		
Direction of Structure:	East-West	Total Deck Length:	8.9 m		
GPS Coordinates (Degre	ees)	Span (s):	7.6 m		
	ude: 44.261428	Total Deck Area:	61 sq.m		
General Long	gitude: -80.933296	Current Load Limit:	0		
Inspection Data					
Date of Inspection:	13-Jun-24				
	A. Burgess P.Eng. & J. Ziegler CET				
Weather Conditions: Cloudy					
Temperature:	<u> </u>				
Special Notes: Bridge is in good condition, showing no signs of structural distress.					
J.					
Overall Inspection S	ummary				
Additional Investigation Required: Additional Investigation Cost: Rehabilitation Needs: Rehabilitation Timing:					
Total Rehabilitation Budget Costings: Engineering Fee:					
Historical Data					
Year Built: Latest Biennial Inspection Latest Structure Rating: RehabHistory:	n: March 23, 2023	contract Number When Bu atest Specialized Inspecti atest Structure Condition	on:		
Regional Priority Number NatureOfProgramWork:	:	Programmed Work Year:			

Description: Abutment walls: Light to medium vertical cracking with leachate staining.



Description: Wingwalls: Large localized spall with exposed reinforcing at SE quadrant.



Description: Wearing surface: Moderate potholes throughout.



Description: Deck top: Light to medium spalling throughout.



Description: Soffit (int): Medium longitudinal cracking with leachate staining and stalactite.



Element Group:	Abutments	Site Number:	B-005	
Element Name:	Abutment walls	Width:	6.8	m
Element type:		Height:	1.6	m
Sub-element:		Length:	0	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	22	sqm
Environment:	Benign	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	21 Fair: 1 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0			

General Comments:

Light to medium vertical cracking with leachate staining.



Element Group: Element Name:	Abutments Wingwalls	Site Number: Width:	B-005	m
Element type:		Height:	1.6	m
Sub-element:		Length:	3.1	m
Material:	Cast-in-place Concrete	Count:	4	
Location:		Total Quantity:	10	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	8 Fair: 1 Poor: 1			
Rehab Needs:		Unit Cost:		
Rehab time period:	0	Estimated Cost:		

General Comments:

Large localized spall with exposed reinforcing at SE quadrant.



Element Inspection				
Element Group:	Accessories (Attachments and Signs)	Site Number:	B-005	
Element Name:	Signs	Width:		m
Element type:		Height:		m
Sub-element:		Length:		m
Material:	Steel	Count:	8	
Location:		Total Quantity:	8	each
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Rehab Needs: Rehab time period: Quantity:	8 Fair: 0 Poor: 0	Unit Cost: Estimated Cost:		
General Comments:				
	Massac V Ross			

2024 Jun 13 10:52 AM

Element Inspection Element Group: Element Name:

Element Group:	Approaches	Site Number:	B-005	ı
Element Name:	Approach slabs	Width:	6	m
Element type:		Height:	0	m
Sub-element:		Length:	6.1	m
Material:	Cast-in-place Concrete	Count:	2	
ocation:		Total Quantity:	73	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Waint needs:		Maint. Time Period:		
Condition Data (sam)				

Condition Data (sqm):

xec:	0	Good:	72	Fair:	1	Poor:	0
------	---	-------	----	-------	---	-------	---

Rehab Needs:		Unit Cost:
Rehab time period:		Estimated Cost:
Quantity:	0	•

General Comments:





Element Group: Element Name: Element type: Sub-element: Material: Location: Environment: Perform. deficiencies: Maint needs:	Approaches Curbs Cast-in-place Concrete Severe	Site Number: Width: Height: Length: Count: Total Quantity: Not inspected: Maintenance Type: Maint, Time Period:	B-005
Condition Data (m): Exec: 0 Good: Rehab Needs: Rehab time period: Quantity: General Comments:	8 Fair: 0 Poor: 0	Unit Cost: Estimated Cost:	



Element Group:	Approaches	Site Number:	B-005	
Element Name:	Wearing surface	Width:	6	m
Element type:		Height:	0	m
Sub-element:		Length:	6.1	m
Material:	Asphalt	Count:	2	
Location:		Total Quantity:	73	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm):				
Exec: 0 Good:	64 Fair: 6 Poor: 3			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0		,	
Conoral Comments				

General Comments:

Moderate potholes throughout.



Element Group:	Barriers	Site Number:	B-005	
Element Name:	Railing Systems	Width:	0	m
Element type:	Flexi beam with steel posts	Height:	0.7	m
Sub-element:		Length:	48	m
Material:	Steel	Count:	2	
Location:		Total Quantity:	96	
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (m): Exec: Good:	96 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0		1	
General Comments:				
1				



Element Group:	Decks	Site Number:	B-005	
Element Name:	Deck top (with thick slab)	Width:	6.8	m
Element type:		Height:	0	m
Sub-element:		Length:	8.9	m
Material:	Cast-in-place Concrete	Count:	1	
Location:		Total Quantity:	61	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	52 Fair : 6 Poor : 3			
Rehab Needs:		Unit Cost:		
Rehab time period:	0	Estimated Cost:		

General Comments:

Light to medium spalling throughout.



Element Group:	Decks	Site Number:	B-005
Element Name:	Drainage System	Width:	0 m
Element type:		Height:	0 m
Sub-element:		Length:	0 m
Material:	Steel	Count:	4
Location:		Total Quantity:	4 each
Environment:	Severe	Not inspected:	
Perform. deficiencies:		Maintenance Type:	Structural
Maint needs:	Install/extend drain pipes	Maint. Time Period:	2 Year
Condition Data (each): Exec: Good:	4 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:	0		

General Comments:

Recommend to extend three drains to below the soffit.



nement Inspection				
Element Group:	Decks	Site Number:	B-005	
Element Name:	Soffit - thick slab	Width:	1	m
Element type:		Height:	0.25	m
Sub-element:	Exterior	Length:	7.62	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	19	sqm
Environment:	Moderate	Not inspected:		·
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good: Rehab Needs: Rehab time period:	19 Fair: 0 Poor: 0	Unit Cost: Estimated Cost:		
Quantity:	0		-	
General Comments:				
		2024	Jun 13 10:50 A	м

Element Group:	Decks	Site Number:	B-005
Element Name:	Soffit - thick slab	Width:	4.8 m
Element type:		Height:	0 m
Sub-element:	Interior	Length:	7.62 m
Material:	Cast-in-place Concrete	Count:	1
Location:		Total Quantity:	37 sqm
Environment:	Benign	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec: Good:	33 Fair: 2 Poor: 2		
Rehab Needs:		Unit Cost:	
Rehab time period: Quantity:	0	Estimated Cost:	

General Comments:

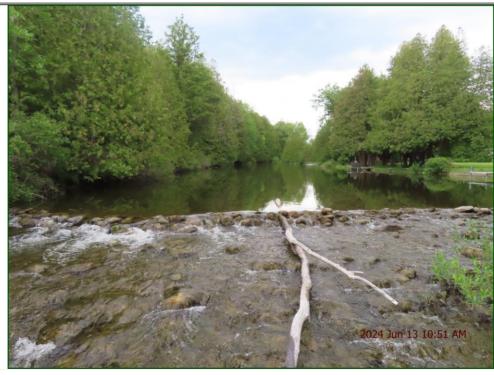
Medium longitudinal cracking with leachate staining and stalactite at construction joint.



Liement Inspection				
Element Group:	Embankments & Streams	Site Number:	B-005	
Element Name:	Embankments	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:		Count:	4	
Location:		Total Quantity:	4	each
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each):				
Exec: 0 Good:	4 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0			
General Comments:				
5249				Mid CO
				7
				
			A THUS	
			TO WHAT	
- 1/A		The Edition		
		A STORY OF THE		
	一个一种自身和	E TO ALEXANDER		
		1. 经发生人公司		
		Frankling Land	表入 社	
		AV. II SUBJECT		
			REAL PROPERTY.	
			3	
			对象 这 类	

2024 Jun 13 10:54 AM

Element Name: Streams and Waterways Width: 0 m Element type: Height: 0 m Sub-element: Length: 0 m Material: Count: 1			Cita Number	D 005
Element type: Sub-element: Length: Count: I count: Invironment: Benian Not inspected: Maint needs: Maint needs: Condition Data (each): Exec: Rehab Needs: Rehab time period: Quantity: Residual Height: Count: I count: I count: Maintenance Type: Maint. Time Period: Unit Cost: Estimated Cost: Quantity: O Maintenance Type: Maintenan	-	Embankments & Streams	Site Number:	B-005
Sub-element: Material: Location: Environment: Benign Not inspected: Perform. deficiencies: Maint needs: Condition Data (each): Exec: Rehab Needs: Rehab time period: Quantity: Unit Cost: Estimated Cost: Quantity: O m Maintenance Type: Maint. Time Period: Unit Cost: Estimated Cost: Quantity: O	Element Name:	Streams and Waterways	Width:	0 m
Material: Location: Environment: Benian Not inspected: Perform. deficiencies: Maint needs: Condition Data (each): Exec: Rehab Needs: Rehab Needs: Rehab time period: Quantity: Quantity: Count: 1 Total Quantity: Maintenance Type: Maint. Time Period: Unit Cost: Estimated Cost: Quantity: O In the period: Estimated Cost: Quantity: D In the period: Estimated Cost: Quantity: D In the period: Estimated Cost: Quantity: D In the period: Estimated Cost: O O In the period: In the period: Estimated Cost: O O O O O O O O O O O O O	••		Height:	0 m
Location: Environment: Benign Not inspected: Not inspected: Maint needs: Maint needs: Condition Data (each): Exec: O Good: Total Quantity: Maintenance Type: Maint. Time Period: Condition Data (each): Exec: O Good: Total Quantity: Maintenance Type: Maint. Time Period: Unit Cost: Estimated Cost: Quantity: O			Length:	0 m
Environment: Benign Not inspected: Perform. deficiencies: Maint needs: Maint. Time Period: Condition Data (each): Exec: O Good: Rehab Needs: Rehab time period: Quantity: O Condition Data (each): Exec: O Good: Exec: O Good: Condition Data (each): Exec: O Good: O Door: O Doo	Material:		Count:	1
Perform. deficiencies: Maint needs: Maint. Time Period: Condition Data (each): Exec: 0 Good: 1 Fair: 0 Poor: 0 Rehab Needs: Rehab time period: Quantity: 0	Location:		Total Quantity:	1 each
Maint needs: Maint. Time Period: Condition Data (each): Exec: 0 Good: 1 Fair: 0 Poor: 0 Rehab Needs: Unit Cost: Rehab time period: Estimated Cost: Quantity: 0	Environment:	Benian	Not inspected:	
Condition Data (each): Exec: 0 Good: 1 Fair: 0 Poor: 0 Rehab Needs: Unit Cost: Rehab time period: Estimated Cost: Quantity: 0	Perform. deficiencies:		Maintenance Type:	
Exec: 0 Good: 1 Fair: 0 Poor: 0 Rehab Needs: Unit Cost: Estimated Cost: Quantity: 0	Maint needs:		Maint. Time Period:	
Quantity: 0	Rehab Needs:		Unit Cost:	
Quantity: 0			Estimated Cost:	
General Comments:	Renab time period:		Estimated Cost.	
		0		
	Quantity:	0		
	Quantity:	0		
	Quantity:	0		
<u> </u>	Quantity:	0		



Element Inspection			
Element Group:	Foundations	Site Number:	B-005
Element Name:	Foundation (below ground level)	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:	Cast-in-place Concrete	Count:	
Location:		Total Quantity:	each
Environment:	Benian	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: Good:	0 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:	0		
General Comments:			

Element Group:	Sidewalks/ curbs	Site Number:	B-005	
Element Name:	Curbs	Width:	0.25	m
Element type:		Height:	0.4	m
Sub-element:		Length:	8.9	m
Material:	Cast-in-place Concrete	Count:	2	-
Location:	On Deck	Total Quantity:	12	m
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (m): Exec: Good:	12 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0			
General Comments:				





OSIM Biennial Inspection Report





Concession 11/12, Lot 30



West Approach



Inventory Data				
Structure Name:	Concession 11/12, Lot 30	Site Number:	N-060	
District:	Concession 11 & 12, Lot 31	Road Name:	Concession Rd 12	
County:	Grey County	Owner:	West Grey	
Township:		Skew:	0	
Bridge or Culvert:	Culvert	AADT:	1000	
Structure Type:	Box Culvert Open Footing - Simple	Overall Struct. Width:	7 m	
Number of Spans:	1	Roadway Width:	6.3 m	
Direction of Structure:	East-West	Total Deck Length:	7 m	
GPS Coordinates (Degre	es)	Span (s):	5.5 m	
Latitu REVIEWED	ide: 44.077038	Total Deck Area:	49 sq.m	
	itude: -80.852448	Current Load Limit:	0	
Inspection Data				
Date of Inspection: 3	1-Jul-24			
Name of Inspector:	andrew Burgess, P.Eng. & Joel Ziegler CET			
Equipment Used:	Sounding hammer, measuring equipment, GP	S		
Weather Conditions:	Sunny			
Temperature: 2	3			
Special Notes:	Culvert is in fair poor condition, showing no sig	ns of structural distress.		
Overall Inspection Su	ummary			
BCI: 70 Next Inspection: 31-Jul-26				
Additional Investigation R	equired:	P	riority:	
Additional Investigation C	ost:			
Rehabilitation Needs:				
Rehabilitation Timing:				
Total Rehabilitation Budge	et Costings:	Engineering Fee:		
Historical Data				
Year Built:	1940 Co	ontract Number When Bu	ilt:	
Latest Biennial Inspection		test Specialized Inspection	on:	
Latest Structure Rating:		test Structure Condition:		
RehabHistory:	,			
Regional Priority Number:	P	rogrammed Work Year:		
NatureOfProgramWork:			r	

Description: Barrel: Moderate delamination.



Description: Barrel: Severe delamination with exposed reinforcing.



Description: Barrel: View from south.



Description: Barrier/Parapet walls: Existing cast in place concrete barrier has failed.



Page 4 of 15

Description: Wearing Surface: Moderate ravelling along curbline.



Description: Wearing Surface: Medium to wide longitudinal cracking.



Description: Outlet: Severe delamination and disintegration.



Description: Outlet: Medium to wide cracking with leachate staining.



Description: Inlet: Severe spalling and disintegration with exposed reinforcing.



Element Group:	Culverts	Site Number:	N-060	
Element Name:	Barrels	Width:	5.5	m
Element type:		Height:	2	m
Sub-element:		Length:	7	m
Material:	Cast-in-place Concrete	Count:		
Location:		Total Quantity:	67	sqm
Environment:	Benign	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	64 Fair: 2 Poor: 1			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:		Estimated Cost:		

General Comments:

Moderate delamination. Severe delamination with exposed reinforcing.



Element Group:	Barriers	Site Number:	N-060	
Element Name:	Barrier/Parapet walls	Width:	0	m
Element type:		Height:	0.96	m
Sub-element:		Length:	7	m
Material:	Pre-cast Concrete	Count:	1	
Location:		Total Quantity:	14	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 14 Good:	0 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:		Estimated Cost:		

General Comments:

Temporary concrete barrier has replaced exisiting railing system on both sides. Existing cast in place concrete barrier has failed, temporary concrete barrier in place.



Element Group: Element Name: Element type: Sub-element:	Decks Wearing surface	Site Number: Width: Height:	N-060 6.3	m m
Material: Location:	Asphalt	Length: Count:	7	m
Environment:	Severe	Total Quantity: Not inspected:	44 	sqm
Perform. deficiencies: Maint needs:	None	Maintenance Type: Maint. Time Period:		
Condition Data (sqm): Exec: Good:				
Rehab Needs: Rehab time period: Quantity:		Unit Cost: Estimated Cost:		

General Comments:

Moderate ravelling along curbline. Medium to wide longitudinal cracking.



Material: Count: 1					
Element type: Sub-element: Material: Location: Environment: Not inspected: Perform. deficiencies: Maint needs: Count: Maint. Time Period: Rehab Needs: Rehab time period: Quantity: Height: Maint. Main		N-060	Site Number:	ankments and Streams	Element Group:
Sub-element: Material: Location: Environment: Not inspected: Perform. deficiencies: Maint needs: Condition Data: Exec: Rehab Needs: Rehab time period: Quantity: Length: Not inspected: Maintenance Type: Maint. Time Period: Unit Cost: Estimated Cost: Quantity:	n		Width:	ms & waterways	Element Name:
Material: Location: Environment: Perform. deficiencies: Maint needs: Condition Data: Exec: Rehab Needs: Rehab time period: Quantity: Count: Total Quantity: Not inspected: None Maintenance Type: Maint. Time Period: Unit Cost: Estimated Cost: Quantity:	n		Height:		Element type:
Material: Location: Environment: Not inspected: Perform. deficiencies: Maint needs: Count: Not inspected: Maint. Time Period: Condition Data: Exec: Quantity: Rehab Needs: Quantity: Count: I Description: Descri	n		Length:		Sub-element:
Location: Environment: Not inspected: Perform. deficiencies: Maint needs: Condition Data: Exec: Rehab Needs: Rehab time period: Quantity: Total Quantity: Maintenance Type: Maint. Time Period: Unit Cost: Estimated Cost: Quantity:		1			Material:
Environment: Perform. deficiencies: None Maintenance Type: Maint. Time Period: Condition Data: Exec: O Good: Rehab Needs: Rehab time period: Quantity: Not inspected: Maintenance Type: Maint. Time Period: Unit Cost: Estimated Cost:			Total Quantity:		Location:
Maint needs: Maint. Time Period: Condition Data: Exec: 0 Good: 1 Fair: 0 Poor: 0 Rehab Needs: Unit Cost: Rehab time period: Estimated Cost: Quantity:					Environment:
Condition Data: Exec: 0 Good: 1 Fair: 0 Poor: 0 Rehab Needs: Unit Cost: Rehab time period: Estimated Cost: Quantity:			Maintenance Type:		Perform. deficiencies:
Exec: 0 Good: 1 Fair: 0 Poor: 0 Rehab Needs: Unit Cost: Estimated Cost: Quantity:			Maint. Time Period:		Maint needs:
Rehab time period: Estimated Cost: Quantity:				Fair: 0 Poor: 0	
Quantity:			Unit Cost:		Rehab Needs:
Quantity:			Estimated Cost:		Rehab time period:
General Comments:					Quantity:
General Comments:					0
2024 Jul 31 11:5 74M					

Element Group:	Embankments and Streams	Site Number:	N-060
Element Name:	Embankments	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	4
Location:		Total Quantity:	4 each
Environment:		Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: 0 Good:	4 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period: Quantity:		Estimated Cost:	

General Comments:

Recommend approach protection, impact danger.



Element Inspection			
Element Group:	Sians	Site Number:	N-060
Element Name:	Signs	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	4
Location:		Total Quantity:	4 each
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: Good: Rehab Needs:	4 Fair: 0 Poor: 0	Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:		Estimated Cost.	
General Comments:			

Element Group:	Culverts	Site Number:	N-060	
Element Name:	Outlet Components	Width:	0	m
Element type:		Height:	2	m
Sub-element:		Length:	7	m
Material:	Cast-in-place Concrete	Count:	0	
Location:		Total Quantity:	10	sqm
Environment:	Moderate	Not inspected:		•
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	6 Fair: 2 Poor: 2			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0		,	

General Comments:

Severe delamination and disintegration. Medium to wide cracking with leachate staining.



Element Group:	Culverts	Site Number:	N-060	
Element Name:	Inlet Components	Width:	0	m
Element type:		Height:	2	m
Sub-element:		Length:	7	m
Material:	Cast-in-place Concrete	Count:	0	
Location:		Total Quantity:	10	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	6 Fair: 2 Poor: 2			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended 0	Estimated Cost:		

General Comments:

Severe spalling and disintegration with exposed reinforcing.



OSIM Biennial Inspection Report





Mulock Road Bridge, Concession 2 SDR, Lot 50/51, Mulock



East Elevation



Inventory Data				
Structure Name:	Mulock Road Bridge, Concession 2 SDR, L	Site Number:	B-026	
District:	Concession 2SDR, Lot 50 & 51, Mulock Ro	Road Name:	Mulock Rd	
County:	Grey County	Owner:	West Grev	
Township:		Skew:	0	
Bridge or Culvert:	Bridge	AADT:	200	
Structure Type:	Concrete Rigid Frame	Overall Struct. Width:	7.2 m	
Number of Spans:	1	Roadway Width:	6.2 m	
Direction of Structure:	North-South	Total Deck Length:	14.7 m	
GPS Coordinates (Degr		Span (s):	13.7 m	
Lati REVIEWED	tude: 44.159199	Total Deck Area:	106 sq.m	
Lon	gitude: -80.902095	Current Load Limit:	0	
Inspection Data				
Date of Inspection:	11-Jun-24			
Name of Inspector:	Andrew Burgess, P.Eng. & Joel Ziegler CET			
Equipment Used:	Sounding hammer, measuring equipment, GPS	S		
Weather Conditions:	Sunny			
Temperature:	16			
Special Notes:	Bridge is in fair to good condition, showing no	signs of structural distress.		
Overall Inspection S	i Summary			
Additional Investigation Required: Additional Investigation Cost: Rehabilitation Needs: Rehabilitation Timing: Total Rehabilitation Budget Costings: Historical Data				
Year Built:	1035	ontract Number When Bu	ile	
Latest Biennial Inspection	11000	ontract Number when Bu test Specialized Inspecti		
Latest Structure Rating:		itest Specialized Inspecti itest Structure Condition:		
RehabHistory:	12	action of acture conditions		
Regional Priority Numbe	ır. D	rogrammed Work Year:		
NatureOfProgramWork:		. og. ammod Work Todi.		

Description: Soffit (int): Severe delamination along construction joints (1/2).



Description: Soffit (int): Severe delamination along construction joints (2/2).



Description: Soffit (ext): Light to medium cracking with leachate staining throughout.



Description: Railing system: Narrow to medium cracking throughout.



Description: Deck top: Recommend extending wearing surface to curbline.



Description: Wearing surface: Severe ravelling along centreline.



Description: Curbs: Shallow delamination throughout.



Description: Abutment walls: Medium to wide vertical crack with leachate and wetness staining.



Description: Wingwalls: Medium to wide cracking with leachate staining.



Description: Wingwalls: Minor spalling at construction joint.



Description: Wingwalls: Patchwork noted.



Element Group:	Decks	Site Number:	B-026	
Element Name:	Drainage system	Width:		m
Element type:		Height:		m
Sub-element:		Length:		m
Material:	Steel	Count:	2	-
Location:		Total Quantity:	2	each
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: Good:	2 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:		Estimated Cost:		
Qualitity.				

General Comments:



Element Group:	Decks	Site Number:	B-026	
•				
Element Name:	Soffit - thick slab	Width:	5.2	m
Element type:		Height:		m
Sub-element:	Interior	Length:	13.7	m
Material:	Cast-in-place Concrete	Count:	1	
Location:		Total Quantity:	71	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	61 Fair: 6 Poor: 4			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:				

General Comments:

Severe delamination along construction joints.



Element Group:	Decks	Site Number:	B-026	
Element Name:	Soffit - thick slab	Width:	1 m	
Element type:		Height:	0.4 m	
Sub-element:	Exterior	Length:	13.7 m	
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	38 sqm	
Environment:	Severe	Not inspected:	Oq	
		•		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	34 Fair: 4 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		

General Comments:

Light to medium cracking with leachate staining throughout.



Element Inspection			
Element Group:	Foundations	Site Number:	B-026
Element Name:	Foundation (below ground)	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	2
Location:		Total Quantity:	2
Environment:		Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data: Exec: Good:	2 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			
1			

Element Inspection				
Element Group:	Approaches	Site Number:	B-026	
Element Name:	Wearing surface	Width:	6.2	m
Element type:		Height:		m
Sub-element:		Length:	5	m
Material:	Stone Chip	Count:	2	
Location:		Total Quantity:	62	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	62 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:				
General Comments:				

2024 Jun 11 10:09 AM

Element Group:	Approaches	Site Number:	B-026
Element Name:	Approach slab	Width:	7.2 m
Element type:		Height:	m
Sub-element:		Length:	5 m
Material:	Cast-in-place Concrete	Count:	2
Location:		Total Quantity:	72
Environment:	Moderate	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data:			
Exec: 0 Good:	72 Fair : 0 Poor : 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			-

General Comments:

No signs of settlement.



Element Group:	Approaches	Site Number:	B-026	
Element Name:	Curbs	Width:	0.5	m
Element type:		Height:	0.25	m
Sub-element:		Length:	5	m
Material:	Cast-in-place Concrete	Count:	3	
Location:		Total Quantity:	15	m
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (m): Exec: 0 Good:	15 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:			,	
General Comments:				



Liemeni Inspection				
Element Group:	Approaches	Site Number:	B-026	
Element Name:	Railing system	Width:		m
Element type:	Flexi beam with steel posts	Height:	1	m
Sub-element:		Length:	5	m
Material:	Cast-in-place Concrete	Count:	4	
Location:		Total Quantity:	20	
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data: Exec: 0 Good:	20 Fair : 0 Poor : 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:			,	
General Comments:				
I				



Element Group: Element Name:	Barriers Railing system	Site Number: Width:	B-026 m
Element type:		Height:	1 m
Sub-element:		Length:	14.7 m
Material:	Cast-in-place Concrete	Count:	2
Location:		Total Quantity:	29
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data: Exec: Good:	28 Fair: 1 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period: Quantity:		Estimated Cost:	

General Comments:

Narrow to medium cracking throughout.



Element Group: Element Name: Element type: Sub-element:	Decks Deck top (with thick slab)	Site Number: Width: Height: Length:	B-026 m m m m m	
Material: Location: Environment:	Cast-in-place Concrete Moderate	Count: Total Quantity: Not inspected:	106 squ	m
Perform. deficiencies: Maint needs: Condition Data (sqm):	None	Maintenance Type: Maint. Time Period:		
Rehab Needs: Rehab time period: Quantity:	106 Fair: 0 Poor: 0	Unit Cost: Estimated Cost:		

General Comments:

Recommend extending wearing surface to curbline.



Element Group: Element Name: Element type: Sub-element: Material:	Decks Wearing surface Stone Chip	Site Number: Width: Height: Length:	B-026 m m m 14.7 m
Location: Environment: Perform. deficiencies: Maint needs:	Severe None	Count: Total Quantity: Not inspected: Maintenance Type: Maint. Time Period:	91 sqm
Condition Data (sqm): Exec: 0 Good: Rehab Needs: Rehab time period: Quantity:	87 Fair: 4 Poor: 0	Unit Cost: Estimated Cost:	

General Comments:

Severe ravelling along centreline.



Element Group:	Embankments and Streams	Site Number:	B-026
Element Name:	Streams & waterways	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	1
Location:		Total Quantity:	1
Environment:		Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data: Exec: 0 Good: Rehab Needs:	1 Fair: 0 Poor:	Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			

Element Inspection			
Element Group:	Embankments and Streams	Site Number:	B-026
Element Name:	Embankments	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	4
Location:		Total Quantity:	4 each
Environment:		Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: 0 Good:	4 Fair: 0 Poor:	0	
Rehab Needs:		Unit Cost:	
Rehab time period:	,	Estimated Cost:	
Quantity:		Estimated Cost.	
General Comments:	,		

Element Group:	Sidewalks/curbs	Site Number:	B-026
Element Name:	Curbs	Width:	0.5 m
Element type:		Height:	0.25 m
Sub-element:		Length:	14.7 m
Material:	Cast-in-place Concrete	Count:	2
Location:		Total Quantity:	29 m
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (m): Exec: 0 Good:	25 Fair : 4 Poor : 0		
Rehab Needs:		Unit Cost:	
Rehab time period: Quantity:		Estimated Cost:	

General Comments:

Shallow delamination throughout.



Element Inspection					
Element Group:	Signs	Site Nu	ımber:	B-026	
Element Name:	Signs	Width:			m
Element type:		Height	:		m
Sub-element:		Length	1:		m
Material:	Steel	Count:		6	
Location:		Total Q	Quantity:	6	each
Environment:	Severe		spected:		
Perform. deficiencies:	None	Maintenan	ce Type:		
Maint needs:		Maint. Tim	e Period:		
Rehab time period: Quantity:		Estima	ated Cost:		
General Comments:					
				9.0	



		0': N I	-	
Element Group:	Abutments	Site Number:	B-026	
Element Name:	Walls	Width:	7.2	m
Element type:	Legs of a rigid frame	Height:	1.5	m
Sub-element:		Length:		m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	22	sqm
Environment:	Benian	Not inspected:		•
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	19 Fair: 2 Poor: 1			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:				

General Comments:

Medium to wide vertical crack with leachate and wetness staining.



Element Group:	Abutments	Site Number:	B-026	
Element Name:	Wingwalls	Width:		m
Element type:		Height:	2.4	m
Sub-element:		Length:	5	m
Material:	Cast-in-place Concrete	Count:	4	
Location:		Total Quantity:	48	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	45 Fair: 2 Poor: 1			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:		Estimated Cost:		

General Comments:

Medium to wide cracking with leachate staining. Minor spalling at construction joint. Patchwork noted.



General Comments:



OSIM Biennial Inspection Report



Site Number:
N-063

Glasser Bridge, Concession 7/8, Lot 3



North Elevation



Inventory Data					
Structure Name:	Glasser Bridge, Concession 7/8, Lot 3	Site Number:	N-063		
District:	Concession 7 & 8, Lot 3	Road Name:	Concession Rd 8		
County:	Grey County	Owner:	West Grey		
Township:		Skew:	0		
Bridge or Culvert:	Bridge	AADT:	150		
Structure Type:	Concrete Rigid Frame	Overall Struct. Width:	9.4 m		
Number of Spans:	1	Roadway Width:	8.5 m		
Direction of Structure:	East-West	Total Deck Length:	17.4 m		
GPS Coordinates (Degre	ees)	Span (s):	16.2 m		
Latit REVIEWED	ude: 44.024868	Total Deck Area:	164 sq.m		
	gitude: -80.979372	Current Load Limit:	0		
Inspection Data					
Date of Inspection:	30-Jul-24				
	Andrew Burgess, P.Eng. & Joel Ziegler CET				
	Sounding hammer, measuring equipment, GP	PS			
-	Cloudy				
Temperature:	<u> </u>				
Special Notes: Bridge is in good condition, showing no signs of structural distress.					
Overall Inspection S	ummary				
Additional Investigation Required: Additional Investigation Cost: Rehabilitation Needs: Rehabilitation Timing: Total Rehabilitation Budget Costings: Next Inspection: 30-Jul-26 Priority: Priority: Engineering Fee:					
Historical Data					
Year Built:	1000	ontract Number When Bu			
Latest Biennial Inspection		atest Specialized Inspecti			
Latest Structure Rating:	74.7	atest Structure Condition			
RehabHistory:					
Regional Priority Number NatureOfProgramWork:	: <u> </u> F	Programmed Work Year:			

Description: Wingwalls: Light horiztonal cracking.



Description: Soffit (ext): Light to medium cracking with leachate staining at posts locations.



Description: Deck top: Minor abrasains throughout.



Element Group:	Abutments	Site Number:	N-063	
Element Name:	Walls	Width:	9.4	m
Element type:	Legs of a rigid frame	Height:	2.2	m
Sub-element:		Length:		m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	41	sqm
Environment:	Benian	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Rehab Needs: Rehab time period:		Unit Cost: Estimated Cost:		
Quantity:	<u></u>	Estimated Cost:		
General Comments:				
	A CONTRACTOR OF THE CONTRACTOR			

2024 Jul 30 10:31 AM

Element Group:	Abutments	Site Number:	N-063			
Element Name:	Wingwalls	Width:	m			
Element type:		Height:	2.2 m			
Sub-element:		Length:	7.2 m			
Material:	Cast-in-place Concrete	Count:	4			
Location:		Total Quantity:	63 sqm			
Environment:	Moderate	Not inspected:				
Perform. deficiencies:	None	Maintenance Type:				
Maint needs:		Maint. Time Period:				
Condition Data (sqm): Exec: 0 Good: 63 Fair: 0 Poor: 0						
Rehab Needs:		Unit Cost:				
Rehab time period:		Estimated Cost:				
Quantity.						

General Comments:

Light horiztonal cracking.



Element Inspection Element Group: Decks Site Number: N-063 **Element Name:** Width: Drainage system Element type: Height: m Sub-element: Length: m Material: Steel 6 Count: Location: **Total Quantity:** 6 each **Environment:** Severe Not inspected: Perform. deficiencies: None Maintenance Type: Maint. Time Period: Maint needs: Condition Data (each): Exec: 0 Poor: 0 Good: 6 Fair: 0 Rehab Needs: **Unit Cost:** Rehab time period: **Estimated Cost:** Quantity: **General Comments:**



Element Inspection Element Group: Decks Site Number: N-063 **Element Name:** Width: Soffit - thick slab 7.4 m Element type: Height: m Sub-element: Interior Length: 16.2 m Material: Cast-in-place Concrete Count: 1 Location: **Total Quantity:** 120 sqm **Environment:** Benian Not inspected: Perform. deficiencies: None **Maintenance Type:** Maint. Time Period: Maint needs: Condition Data (sqm): Exec: 0 Poor: 0 Good: 120 Fair: 0 Rehab Needs: **Unit Cost:** Rehab time period: **Estimated Cost:** Quantity:



Element Group:	Decks	Site Number:	N-063	
Element Name:	Soffit - thick slab	Width:	1	m
Element type:		Height:	0.5	m
Sub-element:	Exterior	Length:	16.2	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	49	sqm
Environment:	Moderate	Not inspected:		
Perform, deficiencies:	None	Maintenance Type:		
Maint needs:	THORE	Maint. Time Period:		
Condition Data (sqm): Exec: Good:	45 Fair: 4 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:			-	

General Comments:

Light to medium cracking with leachate staining at posts locations.



Element Inspection			
Element Group:	Foundations	Site Number:	N-063
Element Name:	Foundation (below ground)	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	2
Location:		Total Quantity:	2
Environment:		Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data: Exec:	2 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			•
General Comments: No signs of settlement.			

Element Group:	Approaches	Site Number:	N-063	
Element Name:	Wearing surface	Width:	8.5	m
Element type:		Height:		m
Sub-element:		Length:	5	m
Material:	Gravel	Count:	2	
Location:		Total Quantity:	85	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	85 Fair : 0 Poor : 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:			,	
General Comments:				
		2024	Jul 30 10:32 /	AM

ment Inspection				
Element Group:	Approaches	Site Number:	N-063	
Element Name:	Approach slab	Width:	9.4	m
Element type:		Height:		m
Sub-element:		Length:	5	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	94	
Environment:	Moderate	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Exec: 0 Good:	94 Fair: 0 Poor: 0			
2x00. 0	194 Tall. 10 Tool. 10			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:				
General Comments:				
No signs of settlement.				
		1		



Liemem Inspection			
Element Group:	Approaches	Site Number:	N-063
Element Name:	Curbs	Width:	0.3 m
Element type:		Height:	0.35 m
Sub-element:		Length:	5 m
Material:	Cast-in-place Concrete	Count:	4
Location:		Total Quantity:	20 m
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (m): Exec: Good: Rehab Needs:	20 Fair: 0 Poor: 0	Unit Cost:	
Rehab time period:			
	,	Estimated Cost:	
Quantity:			
General Comments:			

Element Group:	Approaches	Site Number:	N-063	
Element Name:	Barrier/Parapet walls	Width:	0	m
Element type:		Height:	1.12	m
Sub-element:	Interior	Length:	5	m
Material:	Cast-in-place Concrete	Count:	4	
Location:	End posts	Total Quantity:	22	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	22 Fair : 0 Poor : 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:		Estimated Cost:		
General Comments:				



Etement Inspection				
Element Group:	Approaches	Site Number:	N-063	
Element Name:	Barrier/Parapet walls	Width:		m
Element type:		Height:	1.12	m
Sub-element:	Exterior	Length:	5	m
Material:	Cast-in-place Concrete	Count:	4	
Location:	End posts	Total Quantity:	22	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	22 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:		Estimated Cost:		
General Comments:				
1				



Element Group:	Barriers	Site Number:	N-063	
Element Name:	Railing system	Width:		m
Element type:	Post and panel	Height:	1.12	m
Sub-element:		Length:	17.4	m
Material:	Steel	Count:	2	
Location:		Total Quantity:	35	
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data: Exec: 0 Good:	35 Fair : 0 Poor : 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:				

General Comments:

Minor corrosion throughout.



Minor abrasains throughout.

Element Group:	Decks	Site Number:	N-063	
Element Name:	Deck top (with thick slab)	Width:	9.4	m
Element type:		Height:		m
Sub-element:		Length:	17.4	m
Material:	Cast-in-place Concrete	Count:		
Location:		Total Quantity:	164	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	164 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:				
General Comments:				



Element Group:	Embankments and Streams	Site Number:	N-063
Element Name:	Streams & waterways	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	1
Location:		Total Quantity:	1
Environment:		Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Rehab Needs: Rehab time period: Quantity: General Comments:	1 Fair: 0 Poor: 0	Unit Cost: Estimated Cost:	

Element Group:	Embankments and Streams	Site Number:	N-063	
Element Name:	Embankments	Width:		m
Element type:		Height:		m
Sub-element:		Length:		m
Material:		Count:	4	
Location:		Total Quantity:	4	each
Environment:		Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: O Good:	4 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:				
General Comments:				
Steep embankments reco	mmend approach protection.			



Element Group:	Sidewalks/curbs	Site Number:	N-063
Element Name:	Curbs	Width:	0.3 m
Element type:		Height:	0.35 m
Sub-element:		Length:	17.4 m
Material:		Count:	2
Location:		Total Quantity:	35 m
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (m): Exec: 0 Good:	35 Fair : 0 Poor : 0		
Rehab Needs:		Unit Cost:	
Rehab time period: Quantity:		Estimated Cost:	



Element Group:	Signs	Site Number:	N-063	
Element Name:	Signs	Width:		m
Element type:		Height:		m
Sub-element:		Length:		m
Material:		Count:	4	
Location:		Total Quantity:	4	each
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: Good:	4 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:			,	
General Comments:				



OSIM Biennial Inspection Report



Site Number:
N-053

Concession 15/16, Lot 1



North Elevation

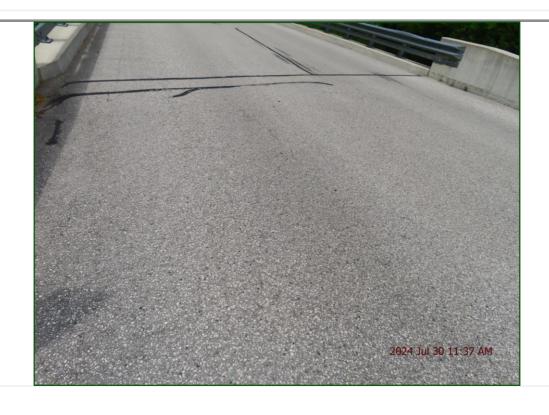


Inventory Data				
Structure Name: Concession 15/16, Lot 1	Site Number:	N-053		
District: Boundary Concession 16	Road Name:	Concession Rd 12 E		
County: Grey County	Owner:	West Grev		
Township:	Skew:	0		
Bridge or Culvert: Bridge	AADT:	150		
Structure Type: Concrete Deck w/ Steel Bea	overall Struct. Width:	11.8 m		
Number of Spans:	Roadway Width:	10.4 m		
Direction of Structure: East-West	Total Deck Length:	20.75 m		
GPS Coordinates (Degrees)	Span (s):	20.45 m		
Latitude: 44.095397	Total Deck Area:	245 sq.m		
REVIEWED Longitude: -81.014154	Current Load Limit:	0		
Inspection Data				
Date of Inspection: 30-Jul-24				
Name of Inspector: Andrew Burgess, P.Eng. & Joe	el Ziegler CET			
Equipment Used: Sounding hammer, measuring	equipment, GPS			
Weather Conditions: Cloudy				
emperature: 23				
Special Notes: Bridge is in good condition, showing no signs of structural distress.				
Overall Inspection Summary				
BCI: 75 Next Inspection: 30-Jul-26				
Additional Investigation Required: Priority:				
Additional Investigation Cost:				
Rehabilitation Needs:				
Rehabilitation Timing:				
Total Rehabilitation Budget Costings: Engineering Fee:				
Historical Data				
Year Built: 1930	Contract Number When Bu	rilt:		
Latest Biennial Inspection: September 6, 2022	Latest Specialized Inspecti	on:		
Latest Structure Rating: 75.0	Latest Structure Condition			
RehabHistory:		•		
Regional Priority Number:	Programmed Work Year:			
NatureOfProgramWork:	_	r		

Description: North Elevation



Element Group:	Approaches	Site Number:	N-053
Element Name:	Wearing surface	Width:	10.4 m
Element type:	in summy sumuss	Height:	0 m
Sub-element:		Length:	5 m
Material:	Asphalt	Count:	2
Location:		Total Quantity:	104 sqm
Environment:	Severe	Not inspected:	104 34111
Perform. deficiencies:		Maintenance Type:	_
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec: Good: Rehab Needs:	104 Fair: 0 Poor: 0	Unit Cost:	
	J	Unit Cost:	
Rehab time period: Quantity:	None Recommended 0	Estimated Cost:	
General Comments:			
General Comments:			



Element Group:	Approaches	Site Number:	N-053	
Element Name:	Barrier/Parapet walls	Width:	0	m
Element type:		Height:	0.8	m
Sub-element:		Length:	5	m
Material:	Cast-in-place Concrete	Count:	4	
Location:	End posts	Total Quantity:	32	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	32 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended 0	Estimated Cost:		



ziemem Inspection				
Element Group:	Decks	Site Number:	N-053	
Element Name:	Deck top (with thick slab)	Width:	0 m	n
Element type:		Height:	10.4 m	n
Sub-element:		Length:	20.75 m	n
Material:	Cast-in-place Concrete	Count:	0	
Location:		Total Quantity:		sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec:	216 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended 0	Estimated Cost:		
General Comments:				



Element Group:	Sidewalks/ curbs	Site Number:	N-053
Element Name:	Curbs	Width:	0.7 m
Element type:		Height:	0.2 m
Sub-element:		Length:	20.75 m
Material:	Cast-in-place Concrete	Count:	2
Location:		Total Quantity:	42 m
Environment:	Severe	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (m): Exec: 0 Good:	42 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:	None Recommended	Estimated Cost:	
Quantity:	0		



Element Inspection			
Element Group:	Accessories	Site Number:	N-053
Element Name:	Signs	Width:	0 m
Element type:		Height:	0 m
Sub-element:		Length:	0 m
Material:	Steel	Count:	8
Location:		Total Quantity:	8 each
Environment:	Severe	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
	•		
Condition Data (each):			
Exec: O Good:	8 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
	None Recommended	Estimated Cost:	
Quantity:	0		
General Comments:			
	× **		The Control of the Co
	Y		
		4. 人员建筑	
. /			
		10000000000000000000000000000000000000	
			MANAGE STATE OF THE STATE OF TH

2024 Jul 30 11:39

Element Inspection			
Element Group:	Embankments & Streams	Site Number:	N-053
Element Name:	Embankments	Width:	0 m
Element type:		Height:	0 m
Sub-element:		Length:	0 m
Material:		Count:	4
Location:		Total Quantity:	4 each
Environment:		Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: 0 Good: Rehab Needs:	4 Fair: 0 Poor:	0 Unit Cost:	
Rehab time period:	None Recommended	Fathward 10 and	
Quantity:	0	Estimated Cost:	
General Comments:			

Liement Inspection			
Element Group:	Embankments & Streams	Site Number:	N-053
Element Name:	Streams and Waterways	Width:	0 m
Element type:		Height:	0 m
Sub-element:		Length:	0 m
Material:		Count:	1
Location:		Total Quantity:	1 each
Environment:		Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec:	1 Fair: 0 Poor: 0	Unit Coats	
		Unit Cost:	
	None Recommended	Estimated Cost:	
Quantity:	0		
General Comments:			

2024 Jul 30 11:35 AM

Element Group:	Abutments	Site Number:	N-053	
Element Name:	Wingwalls	Width:	0	m
Element type:		Height:	1.65	m
Sub-element:		Length:	0.45	m
Material:	Cast-in-place Concrete	Count:	4	
Location:		Total Quantity:	3	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	3 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended	Estimated Cost:		



Element Group:	Beams/Main Longitudinal Elements	Site Number:	N-053	
Element Name:	Girders (steel)	Width:	0.25	m
Element type:	I Type	Height:	0.5	m
Sub-element:		Length:	20.45	
Material:	Steel	Count:	9	
Location:		Total Quantity:	322	sqm
Environment:	Benian	Not inspected:		•
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	322 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0			
General Comments:				



Element Group:	Decks	Site Number:	N-053
Element Name:	Soffit - thin slab	Width:	0.2 m
Element type:		Height:	0.4 m
Sub-element:	Exterior	Length:	20.75 m
Material:	Cast-in-place Concrete	Count:	2
Location:		Total Quantity:	25 sqm
Environment:	Moderate	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec: Good:	25 Fair : 0 Poor : 0		
Rehab Needs:		Unit Cost:	
Rehab time period: Quantity:	None Recommended	Estimated Cost:	



mement Inspection				
Element Group:	Decks	Site Number:	N-053	
Element Name:	Soffit - thick slab	Width:	11.4	m
Element type:		Height:	0	m
Sub-element:	Interior	Length:	20.75	m
Material:	Cast-in-place Concrete	Count:	0	-
Location:		Total Quantity:	237	sqm
Environment:	Benian	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: O Good:	237 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
·	None Recommended	Estimated Cost:		
Quantity:	0			
General Comments:				
J				



Element Inspection Element Group: Site Number: N-053 Approaches **Element Name:** Width: Approach slabs 10.4 m Element type: Height: 0 m Sub-element: Length: 5 m Material: Cast-in-place Concrete 2 Count: Location: **Total Quantity:** 104 sqm **Environment:** Moderate Not inspected: Perform, deficiencies: **Maintenance Type:** Maint. Time Period: Maint needs: Condition Data (sqm): Exec: 0 Poor: 0 Good: 104 Fair: 0 Rehab Needs: **Unit Cost:** Rehab time period: None Recommended **Estimated Cost:** 0 Quantity: **General Comments:**

Element Group: Element Name: Element type: Sub-element: Material: Location: Environment:	Decks Wearing surface Asphalt Severe	Site Number: Width: Height: Length: Count: Total Quantity: Not inspected:	N-053 10.4 m 0 m 20.75 m 0 216 sqm
Perform. deficiencies: Maint needs: Condition Data (sqm): Exec: 0 Good: Rehab Needs: Rehab time period: Quantity:	216 Fair: 0 Poor: 0 None Recommended 0	Maintenance Type: Maint. Time Period: Unit Cost: Estimated Cost:	



Element Group:	Barriers	Site Number:	N-053	
-] -
Element Name:	Railing systems	Width:	0	m
Element type:	Flexi beam with steel posts	Height:	0	m
Sub-element:		Length:	20.75	m
Material:	Steel	Count:	2	
Location:		Total Quantity:	42	m
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (m): Exec: Good: Rehab Needs:	42 Fair: 0 Poor:	Unit Cost:		
	None December ded			
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0			
General Comments:				
Conerai Comments.				



Element Group:	Joints	Site Number:	N-053	
Element Name:	Seals (paved over)	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	10.4	m
Material:		Count:	2	
Location:		Total Quantity:	2	each
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: Good: Rehab Needs:	2 Fair: 0 Poor: 0	T. Watt Oard		
		Unit Cost:		
in the second se	None Recommended	Estimated Cost:		
Quantity:	0			
General Comments:				
		2024	Jul 30 11:39 A	(M)

Element Group:	Abutments	Site Number:	N-053	
Element Name:	Bearings (elastomeric)	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:	Elastomeric	Count:	18	
Location:		Total Quantity:	18	each
Environment:	Benign	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: Good:	18 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended 0	Estimated Cost:		



Element Group:	Beams/Main Longitudinal Elements	Site Number:	N-053	
Element Name:	Diaphragms	Width:	1.2	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:	Steel	Count:	24	
Location:		Total Quantity:	24	each
Environment:	Benign	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: Good:	24 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended	Estimated Cost:		



Element Group:	Abutments	Site Number:	N-053	
Element Name:	Walls	Width:	10.4	m
Element type:		Height:	0.8	m
Sub-element:		Length:	0	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	17	sqm
Environment:	Benian	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	17 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended	Estimated Cost:		



Element Group:	Abutments	Site Number:	N-053
Element Name:	Ballast walls	Width:	10.4 m
Element type:		Height:	0.7 m
Sub-element:		Length:	0 m
Material:	Cast-in-place Concrete	Count:	2
Location:		Total Quantity:	15 sqm
Environment:	Benign	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec: Good:	15 Fair : 0 Poor : 0		
Rehab Needs:		Unit Cost:	
Rehab time period:	None Recommended	Estimated Cost:	

General Comments:

Quantity:

Limited inspection due to diaphragms.

0



OSIM Biennial Inspection Report





Baseline Rd. at Sideroad 18 Culvert



South Approach



Inventory Data				
Structure Name:	Baseline Rd. at Sideroad 18 Culvert	Site Number:	B-104	
District:		Road Name:	Baseline Rd	
County:	Grey County	Owner:	West Grev	
Township:	West Grey	Skew:	0	
Bridge or Culvert:	Culvert	AADT:	200	
Structure Type:	CSP (arch)	Overall Struct. Width:	13 m	
Number of Spans:	2	Roadway Width:	6.6 m	
Direction of Structure:	North-South	Total Deck Length:	7.4 m	
GPS Coordinates (Degre	ees)	Span (s):	5.4 m	
Latit General	ude: 44.209965	Total Deck Area:	96 sq.m	
	gitude: -80.881600	Current Load Limit:	0	
Inspection Data				
Date of Inspection:	10-Jun-24			
	A. Burgess P.Eng. & J. Ziegler CET			
	Sounding hammer, measuring equipment, GF	PS .		
Weather Conditions:	Cloudy			
Temperature:	15			
Special Notes:	Culvert is in fair condition, recommend railing	system repair.		
J				
Overall Inspection S	ummary			
Additional Investigation Required: Additional Investigation Cost: Rehabilitation Needs: Rehabilitation Timing: Total Rehabilitation Budget Costings: Investigation Investigation Investigation Cost: Engineering Fee:				
Historical Data				
Year Built: Latest Biennial Inspection	1002	Contract Number When Bu atest Specialized Inspecti		
Latest Structure Rating: RehabHistory:	72 L	atest Structure Condition		
Regional Priority Number NatureOfProgramWork:	:	Programmed Work Year:		

Description: North barrel: View from east.



Description: North barrel: View from west.



Page 3 of 13

Description: South barrel: View from west.



Description: Inlet: Light to medium honeycombing.



Description: Outlet: Light to medium honeycombing.



Description: Outlet: Light horizontal cracking with leachate staining.



Description: Outlet: Medium to severe disintegration.



Description: Railing systems: Moderate to severe rot with localized 100% section loss.



Element Group: Element Name: Element type: Sub-element: Material: Location: Environment:	Culverts Barrels Corrugated Steel Moderate	Site Number: Width: Height: Length: Count: Total Quantity: Not inspected: Maintenance Type:	B-104 2.7 m 2.7 m 12.5 m 2 212 sqm
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec: O Good:	212 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period: Quantity:	None Recommended	Estimated Cost:	
General Comments:			



Element Group:	Culverts	Site Number:	B-104	
Element Name:	Inlet Components	Width:	7.4	m
Element type:		Height:	2.7	m
Sub-element:		Length:	0	m
Material:	Corrugated Steel	Count:	1	
Location:	East Side	Total Quantity:	16	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	14 Fair: 2 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0			

General Comments:

Light to medium honeycombing.



Element Group:	Culverts	Site Number:	B-104	
Element Name:	Outlet Components	Width:	7.4	m
Element type:		Height:	2.7	m
Sub-element:		Length:	0	m
Material:	Corrugated Steel	Count:	1	
Location:	West Side	Total Quantity:	12	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	6 Fair: 3 Poor: 3			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0			

General Comments:

Light to medium honeycombing. Light horizontal cracking with leachate staining. Medium to severe disintegration.



Element Group:	Decks	Site Number:	B-104		
Element Name:	Wearing surface	Width:	6.6	m	
Element type:		Height:	0	m	
Sub-element:		Length:	7.4	m	
Material:	Gravel	Count:	1		
Location:		Total Quantity:	49	sqm	
Environment:	Severe	Not inspected:			
Perform. deficiencies:		Maintenance Type:			
Maint needs:		Maint. Time Period:			
Condition Data (sqm): Exec: 0 Good: 49 Fair: 0 Poor: 0					
Rehab Needs:		Unit Cost:			
Rehab time period:	None Recommended	Estimated Cost:			
Quantity:	0		,		
General Comments:					



Element Inspection			
Element Group:	Embankments & Streams	Site Number:	B-104
Element Name:	Streams and Waterways	Width:	0 m
Element type:		Height:	0 m
Sub-element:		Length:	0 m
Material:		Count:	1
Location:		Total Quantity:	1 each
Environment:	Benian	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: Good:	1 Fair: 0 Poor:	0	
Rehab Needs:		Unit Cost:	
Rehab time period:	None Recommended	Estimated Cost:	
Quantity:	0		
General Comments:			
		ı	

Element Inspection				
Element Group:	Embankments & Streams	Site Number:	B-104	
Element Name:	Embankments	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:		Count:	4	
Location:		Total Quantity:	4	each
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Exec: 0 Good:	4 Fair: 0 Poor: 0			
Exec: 0 Good:	4 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0			
General Comments:				
			STORE OF THE	
			- 100	14 P



Element Group:	Barriers	Site Number:	B-104
Element Name:	Railing systems	Width:	0 m
Element type:	Flexi beam with timber posts	Height:	0.9 m
Sub-element:		Length:	24 m
Material:	Steel	Count:	2
Location:		Total Quantity:	48 m
Environment:	Severe	Not inspected:	
Perform. deficiencies:		Maintenance Type:	Structural
Maint needs:	Barrier/railing system repair	Maint. Time Period:	2 Year
Condition Data (m): Exec: Good:	36 Fair: 6 Poor: 6		
Rehab Needs:		Unit Cost:	
Rehab time period:	None Recommended	Estimated Cost:	

General Comments:

Quantity:

Moderate to severe rot with localized 100% section loss.



OSIM Biennial Inspection Report



Site Number:
N-185

Sideroad 25, Conc. 8, Lot 25/26



South Approach



Inventory Data					
Structure Name:	Sideroad 25, Conc. 8, Lot 25/26	Site Number:	N-185		
District:	Sideroad 25, Conc. 8 North	Road Name:	Side Rd 25		
County:	Grey County	Owner:	West Grey		
Township:		Skew:	15		
Bridge or Culvert:	Culvert	AADT:	150		
Structure Type:	Box Culvert Open Footing - Simple	Overall Struct. Width:	9.2 m		
Number of Spans:	1	Roadway Width:	6.2 m		
Direction of Structure:	East-West	Total Deck Length:	4.6 m		
GPS Coordinates (Degre	ees) —	Span (s):	3.7 m		
Latit REVIEWED	ude: 44.041218	Total Deck Area:	42 sq.m		
	gitude: -80.873226	Current Load Limit:	0		
Inspection Data					
Date of Inspection:	31-Jul-24				
Name of Inspector:	Andrew Burgess, P.Eng. & Joel Ziegler CET				
Equipment Used:	Sounding hammer, measuring equipment, GF	PS			
Weather Conditions:					
Temperature:	Femperature: 23				
Special Notes: Culvert is in fair to poor condition, showing no signs of structural distress.					
Overall Inspection S	ummary				
BCI: 67 Next Inspection: 31-Jul-26 Additional Investigation Required: Priority: Priority: Rehabilitation Needs:					
Rehabilitation Timing:					
Total Rehabilitation Budg	et Costings:	Engineering Fee:			
Historical Data					
Year Built: Latest Biennial Inspection Latest Structure Rating: RehabHistory:	n: September 7, 2022	contract Number When Bu atest Specialized Inspecti atest Structure Condition	on:		
Regional Priority Number NatureOfProgramWork:	:	Programmed Work Year:			

Description: Inlet: Light to medium cracking with leachate staining.



Description: Outlet: Light spalling with exposed reinforcing throughout.



Description: Outlet: Medium to wide cracking.



Description: Barrel: Light spalling and disintegration along waterline.



Description: Barrel: Severe delamination with exposed reinforcing on soffit.



Description: Barrel: Moderate scaling throughout.



Description: Barrel: View from east.



Description: Curbs: Wide cracking and spalling with exposed reinforcing.



Element Group:	Decks	Site Number:	N-185	
Element Name:	Wearing surface	Width:	6.2	m
Element type:		Height:		m
Sub-element:		Length:	4.6	m
Material:	Gravel	Count:		
Location:	Over Barrel	Total Quantity:	29	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec:	29 Fair : 0 Poor : 0	Unit Cost: Estimated Cost:		
		2024	Tot 21: 11: 04	

Element Group:	Culverts	Site Number:	N-185	
Element Name:	Inlet Components	Width:	3.7	m
Element type:		Height:	0.89	m
Sub-element:		Length:		m
Material:	Cast-in-place Concrete	Count:	1	
Location:	West	Total Quantity:	5	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	3 Fair: 2 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:				

General Comments:

Light to medium cracking with leachate staining.



Element Group:	Culverts	Site Number:	N-185	
Element Name:	Outlet Components	Width:	3.7	m
Element type:		Height:	0.89	m
Sub-element:		Length:		m
Material:	Cast-in-place Concrete	Count:	1	
Location:	East	Total Quantity:	5	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	3 Fair: 1 Poor: 1			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:		Estimated Cost:		

General Comments:

Light spalling with exposed reinforcing throughout. Medium to wide cracking.



Element Group:	Culverts	Site Number:	N-185
Element Name:	Barrels	Width:	3.7 m
Element type:		Height:	0.89 m
Sub-element:		Length:	9.2 m
Material:	Cast-in-place Concrete	Count:	1
Location:		Total Quantity:	50 sqm
Environment:	Benian	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec: 0 Good:	44 Fair: 4 Poor: 2		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			

General Comments:

Light spalling and disintegration along waterline. Severe delamination with exposed reinforcing on soffit. Moderate scaling throughout.



Element Inspection				
Element Group:	Embankments and Streams	Site Number:	N-185	
Element Name:	Embankments	Width:		m
Element type:		Height:		m
Sub-element:		Length:		m
Material:		Count:	4	
Location:		Total Quantity:	4	each
Environment:		Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Rehab Needs: Rehab time period:		Unit Cost:		
Condition Data (each): Exec: 0 Good:	4 Fair: 0 Poor:	0		
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:				
General Comments:				

diemem Inspection			
Element Group:	Embankments and Streams	Site Number:	N-185
Element Name:	Streams & waterways	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	1
Location:		Total Quantity:	1
Environment:		Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data: Exec: 0 Good:	1 Fair: 0 Poor:	0	
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			

Element Group: Element Name: Foundation (below ground) Element type: Sub-element: Material: Location: Environment: Benian None Maint needs: Maint. Time Period: Condition Data: Exec: Good: Rehab Needs: Rehab time period: Quantity: General Comments: No signs of settlement.	
Element type: Sub-element: Material: Location: Environment: Benian Not inspected: Perform. deficiencies: Maint needs: Condition Data: Exec: Good: Rehab Needs: Rehab time period: Quantity: General Comments:	
Sub-element: Material: Location: Environment: Benian Not inspected: Perform. deficiencies: Maint needs: Condition Data: Exec: Good: Rehab Needs: Rehab time period: Quantity: General Comments:	m
Material: Location: Environment: Benign Not inspected: Perform. deficiencies: Maint needs: Maint. Time Period: Condition Data: Exec: Good: Rehab Needs: Rehab time period: Quantity: General Comments:	m
Location: Environment: Benian Not inspected: Perform. deficiencies: Maint needs: Condition Data: Exec: Good: Rehab Needs: Rehab time period: Quantity: General Comments:	m
Environment: Benian Not inspected: Perform. deficiencies: None Maint needs: Maint. Time Period: Condition Data: Exec: Good: Rehab Needs: Rehab time period: Quantity: General Comments:	
Perform. deficiencies: None Maintenance Type: Maint needs: Maint. Time Period: Condition Data: Exec: Good: 0 Fair: 0 Poor: 0 Rehab Needs: Unit Cost: Estimated Cost: Quantity: Estimated Cost: Condition Cost: Condition Data: Condition Dat	
Maint needs: Maint. Time Period: Condition Data: Exec: Good: 0 Fair: 0 Poor: 0 Rehab Needs: Unit Cost: Rehab time period: Estimated Cost: Quantity: General Comments:	
Condition Data: Exec: Good: 0 Fair: 0 Poor: 0 Rehab Needs: Unit Cost: Rehab time period: Estimated Cost: Quantity: General Comments:	
Rehab Needs: Rehab time period: Quantity: General Comments:	
Rehab Needs: Rehab time period: Quantity: General Comments:	
Rehab time period: Quantity: General Comments:	
Quantity: General Comments:	
General Comments:	
No signs of settlement.	

Element Group:	Signs	Site Number:	N-185
Element Name:	Signs	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	4
Location:		Total Quantity:	4 each
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: 0 Good: Rehab Needs:	4 Fair: 0 Poor: 0	Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			

Element Group:	Sidewalks/ curbs	Site Number:	N-185	
Element Name:	Curbs	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	4.6	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	9	m
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (m): Exec: 0 Good:	7 Fair: 1 Poor: 1			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0		F	

General Comments:

Wide cracking and spalling with exposed reinforcing.



OSIM Biennial Inspection Report



Site Number:

B-021

Concession 2 & 3, Overflow Structure to Kennedy



North Elevation



Inventory Data				
Structure Name:	Concession 2 & 3, Overflow Structure to K	Site Number:	B-021	
District:		Road Name:	Concession 2 NDR	
County:	Grey County	Owner:	West Grev	
Township:	West Grey	Skew:	0	
Bridge or Culvert:	Bridge	AADT:	200	
Structure Type:	Concrete Rigid Frame	Overall Struct. Width:	8.39 m	
Number of Spans:	1	Roadway Width:	7.45 m	
Direction of Structure:	East-West	Total Deck Length:	10.9 m	
GPS Coordinates (Deg	grees)	Span (s):	9.14 m	
La General	titude: 44.184339	Total Deck Area:	91 sq.m	
	ngitude: -80.942139	Current Load Limit:	0	
Inspection Data				
Date of Inspection:	10-Jun-24			
Name of Inspector:	A. Burgess P.Eng. & J. Ziegler CET			
Equipment Used:	Sounding hammer, measuring equipment, GP	S		
Weather Conditions:	Cloudy			
Temperature:	5			
Special Notes:	Bridge is in fair to good condition, recommend insufficeient height.	railing repair. Excess mate	erial on bridge causing curb to be	
Overall Inspection	Summary			
Additional Investigation Required: Additional Investigation Cost: Rehabilitation Needs: Rehabilitation Timing: Total Rehabilitation Budget Costings:				
Historical Data				
Year Built:		ontract Number When Bu	ilt:	
Latest Biennial Inspecti	I	atest Specialized Inspecti		
Latest Structure Rating	: 71 La	atest Structure Condition:		
RehabHistory:				
Regional Priority Numb NatureOfProgramWork:		Programmed Work Year:		

Description: Abutment walls: Medium to wide vertical cracking with wetness and rust staining.



Description: Wingwalls: Light to medium horiztonal cracking with leachate staining.



Description: Railing Systems: Medium to severe spalling and disintegration throughout.



Description: Railing Systems: Light to medium map cracking with leachate staining.



Element Group:	Abutments	Site Number:	B-021	
Element Name:	Abutment walls	Width:	8.39	m
Element type:		Height:	2.2	m
Sub-element:		Length:	0	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	37	sqm
Environment:	Benian	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	32 Fair: 4 Poor: 1			
Rehab Needs:		Unit Cost:		
Rehab time period:	0	Estimated Cost:		

General Comments:

Medium to wide vertical cracking with wetness and rust staining.



Element Group: Element Name:	Abutments Wingwalls	Site Number: Width:	B-021 m
Element type:		Height:	2.15 m
Sub-element:		Length:	3.6 m
Material:	Cast-in-place Concrete	Count:	4
Location:		Total Quantity:	15 sqm
Environment:	Moderate	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec: Good:	13 Fair: 2 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period: Quantity:	0	Estimated Cost:	

General Comments:

Light to medium horiztonal cracking with leachate staining.



Element Inspection				
Element Group:	Accessories (Attachments and Signs)	Site Number:	B-021	
Element Name:	Signs	Width:	0 m	
Element type:		Height:	0 m	
Sub-element:		Length:	0 m	
Material:	Steel	Count:	4	
Location:		Total Quantity:	4 each	
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each):				
Exec: 0 Good:	4 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		-		
Quantity:	0	Estimated Cost:		
General Comments:				
		h		_
		75 5 S	No. of Dec.	
	1 4 4 10			
100				
£ 1/2				
		NO.		

2024 Jun 10 04:01 PM

Element Inspection Element Group:

Element Group:	Approaches	Site Number:	B-021	
Element Name:	Approach slabs	Width:	7.45	m
Element type:		Height:	0	m
Sub-element:		Length:	3.6	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	54	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sam)				

Condition Data (sqm):

Reha	ab Needs							Unit Cost:	
LACC.	į U	Good.	34	ı aıı.	Įυ	1 001.	Įυ		

Quantity: 0

General Comments:

Rehab time period:



Estimated Cost:

Element Group:	Approaches	Site Number:	B-021	
Element Name:	Curbs	Width:	0.47	m
Element type:		Height:	0.14	m
Sub-element:		Length:	3.6	m
Material:	Cast-in-place Concrete	Count:	4	
Location:		Total Quantity:	9	m
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (m): Exec: Good:	9 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0			
General Comments:				
Recommend reducing gra	ide.			



Element Group:	Barriers	Site Number:	B-021	
Element Name:	Railing Systems	Width:	0 m	
Element type:	Post and rail	Height:	0 m	
Sub-element:		Length:	18.2 m	
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	36 m	
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:	Structural	
Maint needs:	Barrier/railing system repair	Maint. Time Period:	1 Year	
Condition Data (m): Exec: 0 Good:	12 Fair: 16 Poor: 8			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	0	Estimated Cost:		

General Comments:

Medium to severe spalling and disintegration throughout with exposed reinforcing. Light to medium map cracking with leachate staining.



Element Inspection			
Element Group:	Decks	Site Number:	B-021
Element Name:	Deck top (with thick slab)	Width:	8.39 m
Element type:		Height:	0 m
Sub-element:		Length:	10.9 m
Material:	Cast-in-place Concrete	Count:	1
Location:		Total Quantity:	91 sqm
Environment:	Severe	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Rehab Needs:		Unit Cost:	
Rehab Needs:		Unit Cost	
Rehab time period:		Estimated Cost:	
Quantity:	0	Estimated 905t.	
General Comments:			
General Comments.			
	9,00	The same of the sa	Co. All Co. All
A			

2024 Jun 10 04:02 PM

Liement Inspection				
Element Group:	Decks	Site Number:	B-021	
Element Name:	Soffit - thick slab	Width:	1	m
Element type:		Height:	0.25	m
Sub-element:	Exterior	Length:	9.14	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	23	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	23 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0		,	
General Comments:				



Element Inspection				
Element Group:	Decks	Site Number:	B-021	
Element Name:	Soffit - thick slab	Width:	6.39 m	
Element type:		Height:	0 m	
Sub-element:	Interior	Length:	9.14 m	
Material:	Cast-in-place Concrete	Count:	1	
Location:		Total Quantity:	58 sqm	
Environment:	Benian	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Rehab Needs:		Unit Cost:		
Rehab time period:	<u>'</u>			
Quantity:	0	Estimated Cost:		
General Comments:				
203		S. R. S. R. S.	The Continues of	
E 150 E	A P. Land	Control of the second		



Element Inspection				
Element Group:	Embankments & Streams	Site Number:	B-021	
Element Name:	Embankments	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:		Count:	4	
Location:		Total Quantity:	4	each
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
			•	
Condition Data (each): Exec: O Good:	4 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0	zomiatoa oosti		
General Comments:				

2024 Jun 10 04:02 PM

Element Group:	Embankments & Streams	Site Number:	B-021	
Element Name:	Streams and Waterways	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:		Count:	1	
Location:		Total Quantity:	1	each
Environment:	Benian	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: 0 Good:	1 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0			
General Comments:				
Stream dry at time of insp	ection.			



Element Inspection			
Element Group:	Foundations	Site Number:	B-021
Element Name:	Foundation (below ground level)	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	
Location:		Total Quantity:	each
Environment:	Benign	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: O Good:	0 Fair: 0 Poor: 0	_	
Rehab Needs:	jo raii. jo rooi. jo	I linit Cook	
		Unit Cost:	
Rehab time period: Quantity:	0	Estimated Cost:	
General Comments: No signs of settlement			
1			

Element Group:	Sidewalks/ curbs	Site Number:	B-021	
Element Name:	Curbs	Width:	0.47	m
Element type:		Height:	0.14	m
Sub-element:		Length:	10.9	m
Material:	Cast-in-place Concrete	Count:	2	
Location:	On deck	Total Quantity:	13	m
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (m): Exec: Good:	13 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	0	Estimated Cost:		

General Comments:

Recommend reducing grade.



OSIM Biennial Inspection Report



Site Number:

Southline Road, Concession 2 EGR, Lot 63-64



West Approach



Inventory Data				
Structure Name:	Southline Road, Concession 2 EGR, Lot 6	Site Number:	G-133	
District:	South Line, 0.75 km West of Conc. 2	Road Name:	Southline	
County:	Grey County	Owner:	West Grev	
Township:		Skew:	45	
Bridge or Culvert:	Culvert	AADT:	100	
Structure Type:	Box Culvert Open Footing - Simple	Overall Struct. Width:	6.5 m	
Number of Spans:	1	Roadway Width:	5.5 m	
Direction of Structure:	East-West	Total Deck Length:	4.2 m	
GPS Coordinates (Degre	ees)	Span (s):	3 m	
Latit REVIEWED	ude: 44.168456	Total Deck Area:	27 sq.m	
	gitude: -80.792064	Current Load Limit:	0	
Inspection Data				
Date of Inspection:	11-Jun-24			
Name of Inspector:	Andrew Burgess, P.Eng. & Joel Ziegler CET			
Equipment Used:	Sounding hammer, measuring equipment, GP	S		
Weather Conditions:	Cloudy			
Temperature: 18				
Special Notes:	Culvert is in fair to poor condition, showing no	signs of structural distress.		
Overall Inspection S	ummary			
BCI: 66	Next Inspection: 11-Jun-26			
Additional Investigation F	·	P	riority:	
Additional Investigation C	Cost:			
Rehabilitation Needs:				
Rehabilitation Timing:	1	Tuningsing Fee		
Total Rehabilitation Budget Costings: Engineering Fee:				
Historical Data				
Year Built:	1965 Co	ontract Number When Bu	ilt:	
Latest Biennial Inspection	n: March 22, 2023 La	test Specialized Inspection	on:	
Latest Structure Rating:		test Structure Condition:		
RehabHistory:	•			
Regional Priority Number	: Р	rogrammed Work Year:		
NatureOfProgramWork:	•			

Description: Inlet: Severe spalling and disintegration throughout.



Description: Inlet: Very wide crack.



Description: Outlet: Severe spalling and disintegration throughout.



Description: Barrel: Moderate spall with exposed reinforcing (1/2).



Description: Moderate spall with exposed reinforcing (2/2).



Element Inspection Element Group: Decks Site Number: G-133 **Element Name:** Width: Wearing surface 5.5 m Element type: Height: m Sub-element: Length: 4.2 m Material: Gravel Count: Over Barrel Location: **Total Quantity:** 23 sqm **Environment:** Severe Not inspected: Maintenance Type: Perform. deficiencies: None Maint needs: Maint. Time Period: Condition Data (sqm): Poor: 0 Exec: 0 Good: 23 Fair: 0 Rehab Needs: **Unit Cost:** Rehab time period: **Estimated Cost: Quantity: General Comments:** 2024 Jun 11 11:25 AM

Element Group: Element Name:	Culverts	Site Number: Width:	G-133
	Inlet Components	wiatn:	<u> </u> 3 m
Element type:		Height:	0.75 m
Sub-element:		Length:	m
Material:	Cast-in-place Concrete	Count:	1
Location:	North	Total Quantity:	7 sqm
Environment:	Moderate	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec: 0 Good:	5 Fair: 1 Poor: 1		
Rehab Needs:		Unit Cost:	
Rehab time period: Quantity:		Estimated Cost:	

General Comments:

Severe spalling and disintegration throughout. Very wide crack.



Element Group:	Culverts	Site Number:	G-133	
Element Name:	Outlet Components	Width:	3	m
Element type:		Height:	0.75	m
Sub-element:		Length:		m
Material:	Cast-in-place Concrete	Count:	1	
Location:	South	Total Quantity:	5	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	1 Fair: 2 Poor: 2			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:		Estimated Cost:		

General Comments:

Severe spalling and disintegration throughout.



Element Group:	Culverts	Site Number:	G-133	
Element Name:	Barrels	Width:	3	m
Element type:		Height:	0.75	m
Sub-element:		Length:	6.5	m
Material:	Cast-in-place Concrete	Count:	1	
Location:		Total Quantity:	29	sqm
Environment:	Benian	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	28 Fair: 0 Poor: 1			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:		Estimated Cost:		

General Comments:

Moderate spall wtith exposed reinforcing.



Element Group:	Embankments and Streams	Site Number:	G-133
Element Name:	Embankments	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	4
Location:		Total Quantity:	4 each
Environment:		Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: 0 Good:	4 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:		Estimated Cost.	
General Comments:			
			lin 11 11:25 AM

-			
Element Group:	Embankments and Streams	Site Number:	G-133
Element Name:	Streams & waterways	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	1
Location:		Total Quantity:	1
Environment:		Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data: Exec:	1 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			

Element Inspection			
Element Group:	Foundations	Site Number:	G-133
Element Name:	Foundation (below ground)	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	2
Location:		Total Quantity:	2
Environment:	Benian	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data: Exec: 0 Good:	2 Fair: 0 Poor: 0	_	
-	2	I linit Cook	
Rehab Needs:		Unit Cost:	
Rehab time period: Quantity:		Estimated Cost:	
,			
General Comments: No signs of settlement.			

Element Inspection			
Element Group:	Signs	Site Number:	G-133
Element Name:	Signs	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:	Steel	Count:	4
Location:		Total Quantity:	4 each
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Rehab Needs:		Unit Cost:	
		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			
		A March and the	



OSIM Biennial Inspection Report



Site Number:

B-107

Concession 4 NDR Lot 3 Culvert



West Approach



Inventory Data					
Structure Name:	Concession 4 NDR Lot 3 Culvert	Site Number:	B-107		
District:		Road Name:	Concession 4		
County:	Grey County	Owner:	West Grey		
Township:	West Grey	Skew:	0		
Bridge or Culvert:	Culvert	AADT:	200		
Structure Type:	Box Culvert Open Footing - Rigid	Overall Struct. Width:	9.85 m		
Number of Spans:	1	Roadway Width:	6 m		
Direction of Structure:	East-West	Total Deck Length:	5.5 m		
GPS Coordinates (Degre	ees)	Span (s):	4.9 m		
Latit General	ude: 44.189606	Total Deck Area:	54 sq.m		
	gitude: -81.029531	Current Load Limit:	0		
Inspection Data					
Date of Inspection:	10-Jun-24				
	A. Burgess P.Eng. & J. Ziegler CET				
	Sounding hammer, measuring equipment, GF	PS			
-	Cloudy				
Temperature:	10				
Special Notes:	Culvert is in good condition, showing no signs	of structural distress.			
Overall Inspection S	ummary				
Additional Investigation Required: Additional Investigation Cost: Rehabilitation Needs: Rehabilitation Timing: Total Rehabilitation Budget Costings: Next Inspection: 10-Jun-26 Priority: Priority: Engineering Fee:					
Historical Data					
Year Built: Latest Biennial Inspection		ontract Number When Buatest Specialized Inspecti			
Latest Structure Rating:	,	atest Structure Condition			
RehabHistory:					
Regional Priority Number NatureOfProgramWork:	:	Programmed Work Year:			

Description: Barrel: View from north.



Description: Barrel: Light cracking and wetness staining.



Description: Inlet: Light cracking with leachate staining.



Description: Outlet: Light cracking with wetness staining.



Description: Wearing surface: Light transverse cracking.



Description: Embankments: Moderate erosion at NW and NE corner.



nement Inspection			
Element Group: Element Name: Element type:	Accessories (Attachments and Signs) Signs	Site Number: Width: Height:	B-107 m
Sub-element: Material: Location: Environment:	Severe	Length: Count: Total Quantity: Not inspected:	m 4 each
Perform. deficiencies: Maint needs: Condition Data (each):		Maintenance Type: Maint. Time Period:	
Rehab Needs: Rehab time period: Quantity:	4 Fair: 0 Poor: 0	Unit Cost: Estimated Cost:	
General Comments:			



Element Group:	Barriers	Site Number:	B-107
Element Name:	Railing Systems	Width:	m
Element type:		Height:	0.9 m
Sub-element:		Length:	5.5 m
Material:	Steel	Count:	2
Location:		Total Quantity:	11 m
Environment:	Severe	Not inspected:	
Perform. deficiencies:	Load carrying capacity	Maintenance Type:	Structural
Maint needs:	Barrier/railing system repair	Maint. Time Period:	1 Year
Condition Data (m): Exec: O Good:	0 Fair: 0 Poor: 11		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:	0		-

General Comments:

Light design, recommend upgrade.



Element Group:	Culverts	Site Number:	B-107	
Element Name:	Barrels	Width:	4.9	m
Element type:		Height:	2.8	m
Sub-element:		Length:	9.85	m
Material:	Cast-in-place Concrete	Count:	1	
Location:		Total Quantity:	103	sqm
Environment:	Benian	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	103 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	0	Estimated Cost:		

General Comments:

Light cracking and wetness staining.



Element Group: Element Name:	Culverts Inlet Components	Site Number: Width:	B-107	m
Element type: Sub-element:		Height:	2.8	m
Material:	Cast-in-place Concrete	Length: Count:	1	m
Environment:	Moderate	Total Quantity: Not inspected:	29	sqm
Perform. deficiencies: Maint needs:		Maintenance Type: Maint. Time Period:		
Condition Data (sqm): Exec: O Good:	29 Fair : 0 Poor : 0			
Rehab Needs: Rehab time period: Quantity:	0	Unit Cost: Estimated Cost:		

General Comments:

Light cracking with leachate staining.



Element Group:	Culverts	Site Number:	B-107		
Element Name:	Outlet Components	Width:	5.5	m	
Element type:		Height:	2.8	m	
Sub-element:		Length:	0	m	
Material:	Cast-in-place Concrete	Count:	1		
Location:	South Side	Total Quantity:	29	sqm	
Environment:	Moderate	Not inspected:			
Perform. deficiencies:		Maintenance Type:			
Maint needs:		Maint. Time Period:			
Condition Data (sqm): Exec: 0 Good: 29 Fair: 0 Poor: 0					
Rehab Needs:		Unit Cost:			
Rehab time period:		Estimated Cost:			
Quantity:	0		•		

General Comments:

Light cracking with wetness staining.



Light transverse cracking.

Element Group:	Decks	Site Number:	B-107		
Element Name:	Wearing Surface	Width:	6	m	
Element type:		Height:	0	m	
Sub-element:		Length:	5.5	m	
Material:	Asphalt	Count:	1		
Location:		Total Quantity:	33	sqm	
Environment:	Severe	Not inspected:			
Perform. deficiencies:		Maintenance Type:			
Maint needs:		Maint. Time Period:			
Condition Data (sqm): Exec: O Good: 33 Fair: 0 Poor: 0					
Rehab Needs:		Unit Cost:			
Rehab time period: Quantity:	0	Estimated Cost:			
General Comments:					



Element Group:	Embankments & Streams	Site Number:	B-107		
Element Name:	Embankments	Width:	0 m		
Element type:		Height:	0 m		
Sub-element:		Length:	0 m		
Material:		Count:	4		
Location:		Total Quantity:	4 each		
Environment:	Moderate	Not inspected:			
Perform. deficiencies:		Maintenance Type:	Routine		
Maint needs:	Erosion control	Maint. Time Period:	2 Year		
Condition Data (each): Exec: 0 Good: 2 Poor: 0					
Rehab Needs:		Unit Cost:			
Rehab time period: Quantity:	0	Estimated Cost:			

General Comments:

Moderate erosion at NW and NE corner.



dement Inspection			
Element Group: Element Name: Element type: Sub-element: Material: Location: Environment: Perform. deficiencies: Maint needs:	Embankments & Streams Streams and Waterways Benign	Site Number: Width: Height: Length: Count: Total Quantity: Not inspected: Maintenance Type: Maint. Time Period:	B-107
Condition Data (each): Exec: Good:	1 Fair: 0 Poor: 0		
Rehab Needs: Rehab time period: Quantity:	0	Unit Cost: Estimated Cost:	

2024 Jun 10 09:42 AM

Element Inspection			
Element Group:	Foundations	Site Number:	B-107
Element Name:	Foundation (below ground level)	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:	Cast-in-place Concrete	Count:	2
Location:		Total Quantity:	2 each
Environment:	Benign	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: Good:	2 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:	0		
General Comments:			

Etement Inspection				
Element Group:	Sidewalks/ curbs	Site Number:	B-107	
Element Name:	Curbs	Width:	0.6	m
Element type:		Height:	0.27	m
Sub-element:		Length:	5.5	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	10	m
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (m): Exec: O Good:	10 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0		1	
General Comments:				



OSIM Biennial Inspection Report



Site Number:

Saugeen River Bridge, Concession 2-3N, Lot 47



North Elevation



Inventory Data					
Structure Name:	Saugeen River Bridge, Concession 2-3N, L	Site Number:	G-047		
District:	Concession 2 & 3N, Lot 47, Northline Rd	Road Name:	N Line		
County:	Grey County	Owner:	West Grev		
Township:		Skew:	0		
Bridge or Culvert:	Bridge	AADT:	150		
Structure Type:	Concrete Deck w/ Steel Beams	Overall Struct. Width:	6.3 m		
Number of Spans:	1	Roadway Width:	5.6 m		
Direction of Structure:	North-South	Total Deck Length:	18.4 m		
GPS Coordinates (Degree	ees)	Span (s):	15.8 m		
Latite REVIEWED	ude: 44.219467	Total Deck Area:	116 sq.m		
	itude: -80.656849	Current Load Limit:	5		
Inspection Data					
Date of Inspection:	1-Jun-24				
	Andrew Burgess, P.Eng. & Joel Ziegler CET				
	Sounding hammer, measuring equipment, GPS	3			
	Sunny				
Temperature:					
Special Notes:	Bridge is in good condition, showing no signs of	of structural distress.			
Overall Inspection S	ummary				
BCI: 74	Next Inspection: 11-Jun-26				
Additional Investigation R		P	riority:		
Additional Investigation C	cost:				
Rehabilitation Needs:					
Rehabilitation Timing:	<u> </u>	-			
Total Rehabilitation Budget Costings: Engineering Fee:					
Historical Data					
Year Built:	1930 Cc	ontract Number When Bu	ilt:		
Latest Biennial Inspection	n: March 24, 2023 La	test Specialized Inspecti	on:		
Latest Structure Rating:		test Structure Condition:			
RehabHistory:	-				
Regional Priority Number	: Р	rogrammed Work Year:			
NatureOfProgramWork:					

Description: Wingwalls: Medium to wide vertical cracking with wetness and leachate staining.



Element Inspection					
Element Group:	Abutments	Site Number:	G-047		
Element Name:	Walls	Width:	6.3	m	
Element type:		Height:	2.77	m	
Sub-element:		Length:		m	
Material:	Cast-in-place Concrete	Count:	2		
Location:		Total Quantity:	35	sqm	
Environment:	Benian	Not inspected:			
Perform. deficiencies:	None	Maintenance Type:			
Maint needs:		Maint. Time Period:			
Rehab Needs: Rehab time period: Quantity:	33 Fair: 1 Poor: 1	Unit Cost: Estimated Cost:			
General Comments:					



Element Group: Element Name:	Abutments Wingwalls	Site Number: Width:	G-047	m
Element type:	<u></u>	Height:	3.1	m
Sub-element:		Length:	2.65	m
Material:	Cast-in-place Concrete	Count:	4	
Location:		Total Quantity:	33	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	31 Fair: 1 Poor: 1			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:		Estimated Cost:		

General Comments:

Medium to wide vertical cracking with wetness and leachate staining.



Element Group: Element Name:	Abutments Ballast walls	Site Number: Width:	G-047	m
Element type:		Height:	1.5	m
Sub-element:		Length:		m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	19	sqm
Environment:	Benian	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	19 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:		Estimated Cost:		

General Comments:

Limited inspection due to height of abutment.



Element Inspection			
Element Group:	Abutments	Site Number:	G-047
Element Name:	Bearings (elastomeric)	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:	Elastomeric	Count:	8
Location:		Total Quantity:	8 each
Environment:	Benian	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Rehab Needs: Rehab time period: Quantity: General Comments:		Unit Cost: Estimated Cost:	



Element Inspection				
Element Group:	Decks	Site Number:	G-047	
Element Name:	Soffit - thin slab	Width:	6.3 m	
Element type:		Height:	0 m	
Sub-element:		Length:	18.4 m	
Material:	Cast-in-place Concrete	Count:		
Location:		Total Quantity:	116 sqm	
Environment:	Moderate	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec:	116 Fair: 0 Poor: 0	Unit Cost:		
Rehab time period: Quantity:		Estimated Cost:		
Quantity.				
General Comments:				

2024 Jun 11 02:11 PM

Element Inspection			
Element Group:	Foundations	Site Number:	G-047
Element Name:	Foundation (below ground)	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	2
Location:		Total Quantity:	2
Environment:		Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data: Exec: 0 Good:	2 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments: No signs of settlement.			

Element Group:	Beams/MLE's	Site Number:	G-047	
Element Name:	Girders (steel)	Width:	0.3	m
Element type:	I Type	Height:	0.7	m
Sub-element:		Length:	18.4	m
Material:	Steel	Count:	4	
Location:		Total Quantity:	125	sqm
Environment:	Benign	Not inspected:		•
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	125 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:			,	
General Comments:				



Element Inspection			
Element Group:	Beams/MLE's	Site Number:	G-047
Element Name:	Diaphragms	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:	Steel	Count:	15
Location:		Total Quantity:	15 each
Environment:	Moderate	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Rehab Needs:		Unit Cost:	
Condition Data (each): Exec: Good:	15 Fair : 0 Poor : 0		
Rehab time period:		Estimated Cost:	
Quantity:		Estimated Cost.	
General Comments:			



Approaches	Site Number:	G-047	
Wearing surface	Width:	5.6	m
	Height:		m
	Length:	5	m
Asphalt	Count:	2	
	Total Quantity:		sqm
Severe	Not inspected:		
None	Maintenance Type:		
	Maint. Time Period:		
56 Fair: 0 Poor: 0			
	Unit Cost:		
	Estimated Cost:		
		,	
	Wearing surface	Wearing surface Width: Height: Length: Count: Total Quantity: Not inspected: None Maintenance Type: Maint. Time Period:	Wearing surface Width: 5.6 Height: Length: 5 Count: 2 Total Quantity: 56 Not inspected: None Maintenance Type: Maint. Time Period: 56 Fair: 0 Poor: 0 Unit Cost:



Element Group:	Approaches	Site Number:	G-047
Element Name:	Approach slab	Width:	6.3 m
Element type:		Height:	m
Sub-element:		Length:	5 m
Material:	Cast-in-place Concrete	Count:	2
Location:		Total Quantity:	63
Environment:	Moderate	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data: Exec: Good:	63 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period: Quantity:		Estimated Cost:	
Quantity:			

General Comments:

No signs of settlement.



Element Inspection			
Element Group:	Approaches	Site Number:	G-047
Element Name:	Railing system	Width:	0.3 m
Element type:	Flexi beam with steel posts	Height:	0.72 m
Sub-element:		Length:	5 m
Material:	Steel	Count:	4
Location:		Total Quantity:	20
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Rehab Needs: Rehab time period: Quantity:	20 Fair: 0 Poor: 0	Unit Cost: Estimated Cost:	
General Comments:			



mement inspection			
Element Group:	Barriers	Site Number:	G-047
Element Name:	Railing system	Width:	0.3 m
Element type:		Height:	0.72 m
Sub-element:		Length:	18.4 m
Material:	Steel	Count:	2
Location:		Total Quantity:	37
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data: Exec: 0 Good:	37 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period: Quantity:		Estimated Cost:	
General Comments:			
J			



Element Inspection			
Element Group:	Decks	Site Number:	G-047
Element Name:	Deck top (with thin slab)	Width:	6.3 m
Element type:		Height:	m
Sub-element:		Length:	18.4 m
Material:	Cast-in-place Concrete	Count:	
Location:		Total Quantity:	116 sqm
Environment:	Moderate	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Rehab Needs: Rehab time period: Quantity:		Unit Cost: Estimated Cost:	
General Comments:			



-				
Element Group:	Joints	Site Number:	G-047	
Element Name:	Seals (paved over)	Width:		m
Element type:		Height:		m
Sub-element:		Length:	6.3	m
Material:		Count:	2	
Location:		Total Quantity:	2	each
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec:	Poor: 0	Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:				
General Comments:				
		2024	Jun 11 02:16 P	M

Element Group:	Decks	Site Number:	G-047	
Element Name:	Wearing surface	Width:	5.6	m
Element type:		Height:		m
Sub-element:		Length:	18.4	m
Material:	Asphalt	Count:		
Location:		Total Quantity:	103	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	103 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:			,	
General Comments:				
1				



Element Inspection			
Element Group:	Embankments and Streams	Site Number:	G-047
Element Name:	Streams & waterways	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	1
Location:		Total Quantity:	1
Environment:		Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data: Exec: Good:	Tair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			

2024 Jun 11 02:12 PM

Element Inspection			
Element Group:	Embankments and Streams	Site Number:	G-047
Element Name:	Embankments	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	4
Location:		Total Quantity:	4 each
Environment:		Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:	Ì	Maint. Time Period:	
Condition Data (each): Exec: Good:	4 Fair: 0 Poor: 0	_	
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			

Element Inspection			
Element Group:	Signs	Site Number:	G-047
Element Name:	Signs	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	8
Location:		Total Quantity:	8 each
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: O Good:	8 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			
General Comments:			

OSIM Biennial Inspection Report



Site Number:

Traverston Road, 1.4 km S of Concession 12 Culvert



North Approach



Inventory Data			
Structure Name:	Traverston Road, 1.4 km S of Concession	Site Number:	G-154
District:		Road Name:	Traverston Road
County:	Grey County	Owner:	West Grey
Township:	West Grey	Skew:	0
Bridge or Culvert:	Culvert	AADT:	100
Structure Type:	CSP (arch)	Overall Struct. Width:	13 m
Number of Spans:	2	Roadway Width:	6.6 m
Direction of Structure:	North-South	Total Deck Length:	4.8 m
GPS Coordinates (Degre	ees)	Span (s):	4.2 m
	ude: 44.289470	Total Deck Area:	62 sq.m
General Long	gitude: -80.743474	Current Load Limit:	0
Inspection Data			
Date of Inspection:	12-Jun-24		
	A. Burgess P.Eng. & J. Ziegler CET		
	Sounding hammer, measuring equipment, GP	S	
	Sunny		
_	22		
Special Notes:	Culvert is in good condition, showing no signs	of structural distress. Moni	tor gabion wall movement.
ļ			
Overall Inspection S	ummary		
Additional Investigation of Additional Investigation of Rehabilitation Needs: Rehabilitation Timing: Total Rehabilitation Budge Historical Data	Cost:		riority:
Year Built:		ontract Number When Bu	ile:
Latest Biennial Inspection		atest Specialized Inspecti	
Latest Structure Rating:	1	test Structure Condition:	
RehabHistory:			,
Regional Priority Number NatureOfProgramWork:	: Р	rogrammed Work Year:	

Description: Outlet: Minor impact damage.



Description: Barrel: Light corrosion at water line.



Description: North barrel: View from east.



Description: Barrel: Seperation of sections at mid point of south barrel.



Page 4 of 13

Description: Inlet: South gabion basket is leaning into river, monitor.



Description: Inlet: Minor impact damage.



Page 5 of 13

Description: South barrel: View from west.



Element Group:	Culverts	Site Number:	G-154	
Element Name:	Outlet Components	Width:	4.2	m
Element type:		Height:	1.6	m
Sub-element:		Length:	0	m
Material:	Corrugated Steel	Count:	2	
Location:	West Side	Total Quantity:	5	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	5 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0		-	

General Comments:

Minor impact damage.



Element Inspection			
Element Group:	Decks	Site Number:	G-154
Element Name:	Wearing surface	Width:	4.8 m
Element type:		Height:	0 m
Sub-element:		Length:	9 m
Material:	Gravel	Count:	1
Location:		Total Quantity:	45 sqm
Environment:	Severe	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Rehab Needs: Rehab time period: Quantity:	None Recommended	Unit Cost: Estimated Cost:	
General Comments:			
	The second second		
			and the second
		Market Bridge	The state of the s

Element Group:	Embankments & Streams	Site Number:	G-154	
Element Name:	Streams and Waterways	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:		Count:	1	
Location:		Total Quantity:	1	each
Environment:	Benian	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: Good: Fair: O Poor: O				
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0		r	
General Comments:				



Element Group:	Embankments & Streams	Site Number:	G-154	
Element Name:	Embankments	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:		Count:	4	-
Location:		Total Quantity:	4	each
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each):				
Exec: Good:	4 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0		,	
General Comments:				



Element Group:	Culverts	Site Number:	G-154	
Element Name:	Barrels	Width:	1.6 m	
Element type:		Height:	1.6 m	
Sub-element:		Length:	13 m	
Material:	Corrugated Steel	Count:	1	
Location:	North Side	Total Quantity:	65 sqm	
Environment:	Moderate	Not inspected:		
Perform, deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
			,	
Condition Data (sqm):				
Exec: 0 Good: 63 Fair: 2 Poor: 0				
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended	Estimated Cost:		
Quantity:	0			

General Comments:

Light corrosion at water line. Seperation of sections at mid point of south barrel.



Element Group:	Culverts	Site Number:	G-154	
Element Name:	Inlet Components	Width:	4.2	m
Element type:		Height:	1.6	m
Sub-element:		Length:	0	m
Material:	Corrugated Steel	Count:	2	
Location:	East Side	Total Quantity:	5	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good: 3 Fair: 2 Poor: 0				
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended 0	Estimated Cost:		

General Comments:

South gabion basket is leaning into river, monitor. Minor impact damage.



Element Group:	Culverts	Site Number:	G-154	
Element Name:	Barrels	Width:	2.6 m	
Element type:		Height:	1.6 m	
Sub-element:		Length:	13 m	
Material:	Corrugated Steel	Count:	1	
Location:	South Side	Total Quantity:	86 sqm	
Environment:	Benian	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good: 84 Fair: 2 Poor: 0				
Rehab Needs:		Unit Cost:		
Rehab time period:	None Recommended 0	Estimated Cost:		

General Comments:



OSIM Biennial Inspection Report



Site Number:

B-013

Concession 3W, Jelinski Bridge



East Approach



Inventory Data				
Structure Name:	Concession 3W, Jelinski Bridge	Site Number:	B-013	
District:		Road Name:	Baseline	
County:	Grey County	Owner:	West Grey	
Township:	West Grey	Skew:	0	
Bridge or Culvert:	Culvert	AADT:	450	
Structure Type:	Box Culvert Open Footing - Simple	Overall Struct. Width:	8.7 m	
Number of Spans:	1	Roadway Width:	8.1 m	
Direction of Structure:	East-West	Total Deck Length:	6.7 m	
GPS Coordinates (Degre	ees)	Span (s):	6.1 m	
Latit General	ude: 44.226074	Total Deck Area:	58 sq.m	
	gitude: -80.881834	Current Load Limit:	0	
Inspection Data				
Date of Inspection:	12-Jun-24			
	A. Burgess P.Eng. & J. Ziegler CET			
	Sounding hammer, measuring equipment, GF	PS		
Weather Conditions: Cloudy				
Temperature:	15			
	Culvert is in good to fair condition, showing no	signs of structural distress		
J				
Overall Inspection Summary				
Additional Investigation Required: Additional Investigation Cost: Rehabilitation Needs: Rehabilitation Timing: Total Rehabilitation Budget Costings:				
Historical Data				
mistorical Data				
Year Built: Latest Biennial Inspection Latest Structure Rating: RehabHistory:	n: March 23, 2023	contract Number When Bu atest Specialized Inspecti atest Structure Condition	on:	
Regional Priority Number NatureOfProgramWork:	:	Programmed Work Year:		

Description: Barrel: View from north.



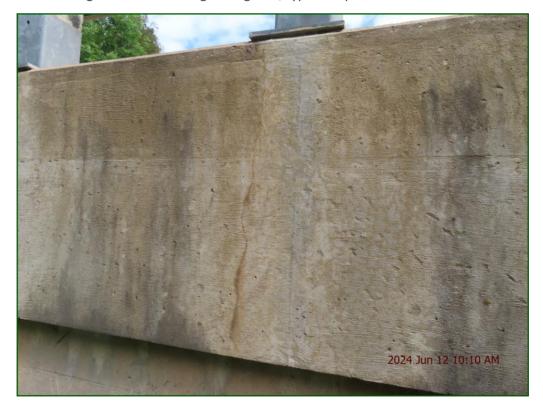
Description: Barrel: Severe localized spall with exposed reinforcing.



Description: Outlet: Light to medium horizontal cracking with leachate staining at corners.



Description: Outlet: Light vertical cracking throughout, typical at post locations.



Description: Inlet: Light to medium vertical cracking with wetness staining.



Element Group:	Culverts	Site Number:	B-013	
Element Name:	Barrels	Width:	6.1	m
Element type:		Height:	1.4	m
Sub-element:		Length:	8.7	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	77	sqm
Environment:	Benign	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	73 Fair: 2 Poor: 2			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0		,	

General Comments:

Severe localized spall with exposed reinforcing.



Element Group:	Culverts	Site Number:	B-013	
Element Name:	Outlet Components	Width:	6.1	m
Element type:		Height:	1.4	m
Sub-element:		Length:	0	m
Material:	Cast-in-place Concrete	Count:	1	
Location:	South Side	Total Quantity:	14	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies: Maint needs:		Maintenance Type: Maint. Time Period:		
Condition Data (sqm): Exec: Good:	13 Fair: 1 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:	0	Estimated Cost:		

General Comments:

Light to medium horizontal cracking with leachate staining at corners. Light vertical cracking throughout, typical at post locations.



Element Inspection			
Element Group:	Accessories (Attachments and Signs)	Site Number:	B-013
Element Name:	Signs	Width:	0 m
Element type:		Height:	0 m
Sub-element:		Length:	0 m
Material:	Steel	Count:	4
Location:		Total Quantity:	4 each
Environment:	Severe	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Rehab Needs:		Unit Cost:	
Exec: 0 Good:	4 Fair: 0 Poor: 0		
		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:	0		
General Comments:			

Element Group:	Culverts	Site Number:	B-013	
Element Name:	Inlet Components	Width:	6.1	m
Element type:		Height:	1.4	m
Sub-element:		Length:	0	m
Material:	Cast-in-place Concrete	Count:	1	
Location:	North Side	Total Quantity:	14	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	13 Fair: 1 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	0	Estimated Cost:		

General Comments:

Light to medium vertical cracking with wetness staining, typical by post locations.



Element Inspection			
Element Group:	Barriers	Site Number:	B-013
Element Name:	Hand Railings	Width:	0 m
Element type:		Height:	1.2 m
Sub-element:		Length:	6.7 m
Material:	Steel	Count:	2
Location:	On deck	Total Quantity:	13 m
Environment:	Severe	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Exec: 0 Good:	13 Fair: 0 Poor: 0	Unit Cost:	
Rehab time period:			
Quantity:	0	Estimated Cost:	
General Comments:			
To BE SERVICE ON			



Element Group:	Barriers	Site Number:	B-013
Element Name:	Railing Systems	Width:	0 m
Element type:	Flexi beam with timber posts	Height:	0.8 m
Sub-element:		Length:	30 m
Material:	Steel	Count:	2
Location:		Total Quantity:	60 m
Environment:	Severe	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (m): Exec: 0 Good:	60 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period: Quantity:	0	Estimated Cost:	
General Comments:			



meme inspection				
Element Group:	Decks	Site Number:	B-013	
Element Name:	Wearing Surface	Width:	8.1 m	
Element type:		Height:	0 m	
Sub-element:		Length:	6.7 m	
Material:	Asphalt	Count:	1	
Location:		Total Quantity:	54 sqm	
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: O Good: Rehab Needs: Rehab time period:	54 Fair: 0 P	Oor: 0 Unit Cost: Estimated Cost:		
Quantity:				
General Comments:				
		2024	Jun 12 10:15 AM	

Element Name: Embankments Width: 0 m Element type: Height: 0 m Sub-element: Length: 0 m Material: Count: 4 each Location: Total Quantity: 4 each Environment: Moderate Not inspected: Maint needs: Maint. Time Period: Condition Data (each): Exec: 0 Good: 4 Fair: 0 Poor: 0 Rehab Needs: Unit Cost: Estimated Cost: Quantity: 0 General Comments:	Element Group:	Embankments & Streams	Site Number:	B-013
Element type: Sub-element: Material: Location: Environment: Moderate Moderate Maintenance Type: Maint needs: Condition Data (each): Exec: Rehab Needs: Rehab Needs: Rehab time period: Quantity: Quantity: O m Moderate Length: Count: 4 each Not inspected: Maintenance Type: Maint. Time Period: Unit Cost: Estimated Cost: Quantity: O				
Sub-element: Material: Location: Environment: Moderate Moderate Not inspected: Perform. deficiencies: Maint needs: Maint needs: Condition Data (each): Exec: Rehab Needs: Rehab time period: Quantity: Unit Cost: Estimated Cost: Quantity:				
Material: Location: Environment: Moderate Not inspected: Perform. deficiencies: Maint needs: Maint needs: Condition Data (each): Exec: O Good: Rehab Needs: Rehab time period: Quantity: O Count: 4 Peach Not inspected: Naint-Time Period: Unit Cost: Estimated Cost: Quantity: O			_	
Location: Environment: Moderate Not inspected: Perform. deficiencies: Maint needs: Condition Data (each): Exec: O Good: Rehab Needs: Rehab time period: Quantity: Quantity: Total Quantity: Maint needs: Maintenance Type: Maint. Time Period: Unit Cost: Estimated Cost: Quantity: O	Material:			-
Environment: Moderate Not inspected: Perform. deficiencies: Maint needs: Maint. Time Period: Condition Data (each): Exec: 0 Good: 4 Fair: 0 Poor: 0 Rehab Needs: Unit Cost: Estimated Cost: Quantity: 0	Location:			
Maint needs: Maint. Time Period: Condition Data (each): Exec: 0 Good: 4 Fair: 0 Poor: 0 Rehab Needs: Rehab time period: Quantity: 0	Environment:	Moderate		
Condition Data (each): Exec: 0 Good: 4 Fair: 0 Poor: 0 Rehab Needs: Unit Cost: Rehab time period: Estimated Cost: Quantity: 0	Perform. deficiencies:		Maintenance Type:	
Rehab Needs: Rehab time period: Quantity: Unit Cost: Estimated Cost:	Maint needs:		Maint. Time Period:	
	Quantity:	0	Estimated Cost:	

Element Group:	Embankments & Streams	Site Number:	B-013	
Element Name:	Streams and Waterways	Width:	0 m	
Element type:		Height:	0 m	
Sub-element:		Length:	0 m	
Material:		Count:	1	
Location:		Total Quantity:	1 each	
Environment:	Benian	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: Good:	1 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0		,	
		2024	Jun 42 40:14 AM	

Foundations	Site Number:	B-013
Foundation (below ground level)	Width:	m
	Height:	m
	Length:	m
Cast-in-place Concrete	Count:	
	Total Quantity:	each
Benian	Not inspected:	
	Maintenance Type:	
	Maint. Time Period:	
0 Fair: 0 Poor: 0		
	Unit Cost:	
	Estimated Cost:	
0		
	Foundation (below ground level) Cast-in-place Concrete Benign O Fair: O Poor: 0	Foundation (below ground level) Height: Length: Cast-in-place Concrete Count: Total Quantity: Not inspected: Maintenance Type: Maint. Time Period: Unit Cost: Estimated Cost:

OSIM Biennial Inspection Report



Site Number:
N-178

Sideroad 20, Conc. 13, Lot 20/21



North Approach



Inventory Data				
Structure Name:	Sideroad 20, Conc. 13, Lot 20/21	Site Number:	N-178	
District:	Sideroad 20	Road Name:	Side Rd 20	
County:	Grey County	Owner:	West Grev	
Township:		Skew:	0	
Bridge or Culvert:	Culvert	AADT:	100	
Structure Type:	CSP (arch)	Overall Struct. Width:	12.5 m	
Number of Spans:	1	Roadway Width:	6.2 m	
Direction of Structure:	North-South	Total Deck Length:	3.3 m	
GPS Coordinates (Degr	rees)	Span (s):	3.3 m	
Lati REVIEWED	tude: 44.085282	Total Deck Area:	sq.m	
	gitude: -80.910104	Current Load Limit:	0	
Inspection Data				
Date of Inspection:	30-Jul-24			
	Andrew Burgess, P.Eng. & Joel Ziegler CET			
	Sounding hammer, measuring equipment, GI	PS		
i i	Cloudy			
Temperature:	24			
Special Notes:	Culvert is in good condition, showing no signs	s of structural distress.		
Overall Inspection S	Summary			
Additional Investigation Required: Additional Investigation Cost: Rehabilitation Needs: Rehabilitation Timing: Total Rehabilitation Budget Costings: Engineering Fee:				
HIStorical Data				
Year Built:	20.2	Contract Number When Bu		
Latest Biennial Inspection	Copto	atest Specialized Inspecti		
Latest Structure Rating:	75 L	atest Structure Condition		
RehabHistory:				
Regional Priority Numbe	r:	Programmed Work Year:		
NatureOfProgramWork:				

Description: Barrel: Minor deformations.



Description: Barrel: View from west.



ziemeni Inspection				
Element Group:	Decks	Site Number:	N-178	
Element Name:	Wearing surface	Width:	6.2	m
Element type:		Height:		m
Sub-element:		Length:	3.3	m
Material:	Gravel	Count:		
Location:	Over Barrel	Total Quantity:	20	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	20 Fair : 0 Poor : 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:				
General Comments:				



Element Group:	Culverts	Site Number:	N-178	
Element Name:	Inlet Components	Width:	3.3 m	
Element type:		Height:	1.3 m	
Sub-element:		Length:	m	
Material:	Corrugated Steel	Count:	1	
Location:		Total Quantity:	1 sqm	
Environment:	Moderate	Not inspected:		
Perform. deficiencies:	None	Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec:	1 Fair: 0 Poor: 0	Unit Cost:		
Rehab time period:				
Quantity:		Estimated Cost:		
Quantity.				
General Comments:				
		2024	Jul 30 03:13 PM	

Element Inspection			
Element Group:	Culverts	Site Number:	N-178
Element Name:	Outlet Components	Width:	3.3 m
Element type:		Height:	1.3 m
Sub-element:		Length:	m
Material:	Corrugated Steel	Count:	1
ocation:		Total Quantity:	1 sqm
Environment:	Moderate	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Rehab Needs: Rehab time period: Quantity:		Unit Cost: Estimated Cost:	
General Comments:			



Element Group:	Culverts	Site Number:	N-178
Element Name:	Barrels	Width:	3.3 m
Element type:		Height:	1.3 m
Sub-element:		Length:	12.5 m
Material:	Corrugated Steel	Count:	1
Location:		Total Quantity:	130 sqm
Environment:	Benian	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec: Good:	130 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period: Quantity:		Estimated Cost:	

General Comments:

Minor deformations.



Flament Ones		Olica Namada an	To a second
Element Group:	Embankments and Streams	Site Number:	N-178
Element Name:	Embankments	Width:	m
Element type:		Height:	m m
Sub-element:		Length:	m
Material:		Count:	4
Location:		Total Quantity:	4 each
Environment:		Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Rehab Needs:		Unit Cost:	
Condition Data (each): Exec: O Good:	4 Fair: 0 Poor:	0	
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:			•
General Comments:			
Ceneral Comments.			
			1/2
The state of the s			

2024 Jul 30 03:16 PM

Element Group:	Embankments and Streams	Site Number:	N-178
Element Name:	Streams & waterways	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:		Count:	1
Location:		Total Quantity:	1
Environment:		Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data: Exec: 0 Good: Rehab Needs:	1 Fair: 0 Poor: 0	Unit Cost:	
Rehab time period:			
Quantity:		Estimated Cost:	
,			
General Comments:			
		2024	Jul 30 03:15 PM

Carra dations	_	
Foundations	Site Number:	N-178
Foundation (below ground)	Width:	m
	Height:	m
	Length:	m
	Count:	1
	Total Quantity:	1
Benian	Not inspected:	
None	Maintenance Type:	
	Maint. Time Period:	
1 Fair: 0 Poor:	0	
	Unit Cost:	
	Estimated Cost:	
	1 Fair: 0 Poor:	Count: Total Quantity: Not inspected: None Maintenance Type: Maint. Time Period:

Element Inspection			
Element Group:	Signs	Site Number:	N-178
Element Name:	Signs	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:	Steel	Count:	4
Location:		Total Quantity:	4 each
Environment:	Severe	Not inspected:	
Perform. deficiencies:	None	Maintenance Type:	
Maint needs:		Maint. Time Period:	
Rehab time period: Quantity:		Estimated Cost:	
General Comments:			
*			R. Carlotte



Element Group:	Barriers	Site Number:	N-178	
Element Name:	Railing systems	Width:	0	m
Element type:	Flexi beam with steel posts	Height:	0	m
Sub-element:		Length:	3.3	m
Material:	Steel	Count:	2	
Location:		Total Quantity:	7	m
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (m): Exec: 0 Good:	7 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended 0	Estimated Cost:		
	r			

General Comments:



OSIM Biennial Inspection Report





Concession 2 & 3W, Long Swamp Bridge



West Elevation



Inventory Data				
Structure Name:	Concession 2 & 3W, Long Swamp Bridge	Site Number:	B-010	
District:		Road Name:	Concession 2	
County:	Grey County	Owner:	West Grey	
Township:	West Grey	Skew:	0	
Bridge or Culvert:	Bridge	AADT:	150	
Structure Type:	Concrete Rigid Frame	Overall Struct. Width:	7.9 m	
Number of Spans:	1	Roadway Width:	7.3 m	
Direction of Structure:	North-South	Total Deck Length:	10.4 m	
GPS Coordinates (Degre	ees)	Span (s):	8.84 m	
Latit General	ude: 44.271549	Total Deck Area:	82 sq.m	
	gitude: -80.877910	Current Load Limit:	0	
Inspection Data				
Date of Inspection:	13-Jun-24			
	A. Burgess P.Eng. & J. Ziegler CET			
	Sounding hammer, measuring equipment, GP	S		
	Cloudy			
Temperature:	20			
Special Notes:	Bridge is in good condition, showing no signs o	of structural distress.		
J.				
Overall Inspection S	ummary			
Additional Investigation Required: Additional Investigation Cost: Priority:				
Rehabilitation Needs:				
Rehabilitation Timing:	<u> </u>			
Total Rehabilitation Budg	et Costings:	Engineering Fee:		
Historical Data				
Year Built: Latest Biennial Inspection Latest Structure Rating:	n: March 27, 2023	ontract Number When Bu atest Specialized Inspecti atest Structure Condition	on:	
RehabHistory: Regional Priority Number NatureOfProgramWork:	:	rogrammed Work Year:		

Description: Barrier/Parapet Walls: Severe impact damage throughout.



Description: Barrier/Parapet Walls: Shallow spall on NE corner.

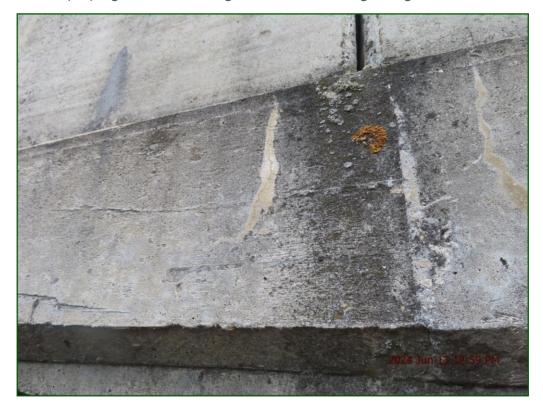


Page 3 of 17

Description: Deck top: Light scaling throughout.



Description: Soffit (ext): Light vertical cracking with leachate staining throughout.



Page 4 of 17

Element Group:	Abutments	Site Number:	B-010	
Element Name:	Abutment walls	Width:	7.9	m
Element type:		Height:	1.7	m
Sub-element:		Length:	0	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	27	sqm
Environment:	Benign	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	27 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	0	Estimated Cost:		

General Comments:



Element Inspection				
Element Group:	Abutments	Site Number:	B-010	,
Element Name:	Wingwalls	Width:	0	m
Element type:		Height:	1.1	m
Sub-element:		Length:	4.3	m
Material:	Cast-in-place Concrete	Count:	4	
Location:		Total Quantity:	9	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Rehab Needs: Rehab time period:		Unit Cost: Estimated Cost:		
	<u> </u>	_		
Quantity:	0	20		
General Comments:				
				4
	The second second second second	Comment of the statement	Organization Co.	CHARLES.
				300



Element Inspection				
Element Group:	Accessories (Attachments and Signs)	Site Number:	B-010	
Element Name:	Signs	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:	Steel	Count:	4	
Location:		Total Quantity:	4	each
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Rehab Needs: Rehab time period: Quantity:	0	Unit Cost: Estimated Cost:		
General Comments:				



Element Inspection Element Group: Site Number: Approaches B-010 **Element Name:** Width: Approach slabs 7.3 m Element type: Height: 0 m Sub-element: Length: 6.1 m Material: Cast-in-place Concrete 2 Count: Location: **Total Quantity:** 89 sqm **Environment:** Moderate Not inspected: Perform, deficiencies: Maintenance Type: Maint. Time Period: Maint needs: Condition Data (sqm): Exec: 0 Poor: 0 Good: 89 Fair: 0 Rehab Needs: **Unit Cost:** Rehab time period: **Estimated Cost:** 0 Quantity: **General Comments:**



Element Inspection Element Group: Site Number: B-010 Approaches **Element Name:** Width: Wearing surface 7.3 m Element type: Height: 0 m Sub-element: Length: 6.1 m Material: Gravel 2 Count: Location: **Total Quantity:** 89 sqm **Environment:** Severe Not inspected: Perform, deficiencies: Maintenance Type: Maint. Time Period: Maint needs: Condition Data (sqm): Exec: 0 Poor: 0 Good: 89 Fair: 0 Rehab Needs: **Unit Cost:** Rehab time period: **Estimated Cost:** 0 Quantity: **General Comments:**



Element Group:	Barriers	Site Number:	B-010	
Element Name:	Barrier/Parapet Walls	Width:	0.1	m
Element type:	Safetv shape w/ a single railing	Height:	0.9	m
Sub-element:		Length:	14	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	53	sqm
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:	Structural	
Maint needs:	Barrier/railing system repair	Maint. Time Period:	2 Year	
Condition Data (sqm): Exec: 0 Good:	48 Fair: 4 Poor: 1			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	0	Estimated Cost:		

General Comments:

Severe impact damage throughout. Shallow spall on NE corner.



Element Group:	Decks	Site Number:	B-010	
Element Name:	Deck top (with thick slab)	Width:	7.9	m
Element type:		Height:	0	m
Sub-element:		Length:	10.4	m
Material:	Cast-in-place Concrete	Count:	1	
Location:		Total Quantity:	82	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 0 Good:	82 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period:		Estimated Cost:		
Quantity:	0		,	
Company Community				

General Comments:

Light scaling throughout.



Element Group:	Decks	Site Number:	B-010	
Element Name:	Drainage System	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:	Steel	Count:	2	
Location:		Total Quantity:	2	each
Environment:	Severe	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Rehab Needs: Rehab time period:		Unit Cost: Estimated Cost:		
Quantity:	0		•	
General Comments:				
,				
50,000				-
10000				100
100				100
				-
-			-	-
				-
		to the state of the state of		
The state of the s	The same of	The second		
				1000
		THE RESERVE		-

2024 Jun 13 01:00 PM

Light vertical cracking with leachate staining throughout.

Element Group:	Decks	Site Number:	B-010	
Element Name:	Soffit - thick slab	Width:	1	m
Element type:		Height:	1	m
Sub-element:	Exterior	Length:	8.84	m
Material:	Cast-in-place Concrete	Count:	2	
Location:		Total Quantity:	35	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: Good:	35 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	0	Estimated Cost:		
General Comments:				



Element Inspection Element Group: Decks Site Number: B-010 **Element Name:** Soffit - thick slab Width: 5.9 m Element type: Height: 0 m Sub-element: Interior Length: 8.84 m Material: Cast-in-place Concrete Count: 1 Location: **Total Quantity:** 52 sqm **Environment:** Benian Not inspected: Perform, deficiencies: Maintenance Type: Maint needs: Maint. Time Period: Condition Data (sqm): Exec: 0 Poor: 0 Good: 52 Fair: 0 Rehab Needs: **Unit Cost:** Rehab time period: **Estimated Cost:** 0 Quantity: **General Comments:**



Element Group:	Embankments & Streams	Site Number:	B-010	
Element Name:	Embankments	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:		Count:	4	
Location:		Total Quantity:	4	each
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: Good:	4 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	0	Estimated Cost:		
,				

General Comments:

Steep embankments recommend approach protection.



Element Inspection					
Element Group:	Embankments & Streams	Site Number:	B-010		
Element Name:	Streams and Waterways	Width:	0	m	
Element type:		Height:	0	m	
Sub-element:		Length:	0		
Material:		Count:	1		
Location:		Total Quantity:	1	each	
Environment:	Benian	Not inspected:			
Perform, deficiencies:		Maintenance Type:			
Maint needs:		Maint. Time Period:			
Rehab Needs: Rehab time period: Quantity: General Comments:	0	Unit Cost: Estimated Cost:			



Element Inspection			
Element Group:	Foundations	Site Number:	B-010
Element Name:	Foundation (below ground level)	Width:	m
Element type:		Height:	m
Sub-element:		Length:	m
Material:	Cast-in-place Concrete	Count:	
Location:		Total Quantity:	each
Environment:	Benian	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: Good:	0 Fair: 0 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:		Estimated Cost:	
Quantity:	0		•
General Comments:			

OSIM Biennial Inspection Report



Site Number:

B-112

Concession 2 WGR Lot 3 Culvert



North Approach



Inventory Data				
Structure Name:	Concession 2 WGR Lot 3 Culvert	Site Number:	B-112	
District:		Road Name:	Concession 2	
County:	Grey County	Owner:	West Grev	
Township:	West Grey	Skew:	0	
Bridge or Culvert:	Culvert	AADT:	100	
Structure Type:	CSP (arch)	Overall Struct. Width:	12 m	
Number of Spans:	2	Roadway Width:	9 m	
Direction of Structure:	North-South	Total Deck Length:	3.6 m	
GPS Coordinates (Degree	ees)	Span (s):	3.6 m	
Latite General	ude: 44.302157	Total Deck Area:	sq.m	
	jitude: -80.886115	Current Load Limit:	0	
Inspection Data				
Date of Inspection:	13-Jun-24			
	A. Burgess P.Eng. & J. Ziegler CET			
	Sounding hammer, measuring equipment, GF	PS		
	Cloudy			
Temperature:	20			
Special Notes:	Culvert is in excellent condition, showing no s	signs of structural distress.		
Į.				
Overall Inspection S	ummary			
Additional Investigation Required: Additional Investigation Cost: Rehabilitation Needs: Rehabilitation Timing: Total Rehabilitation Budget Costings: Next Inspection: 13-Jun-26				
Historical Data				
Year Built:	1994	Contract Number When Bu	iilt:	
Latest Biennial Inspection		atest Specialized Inspecti		
Latest Structure Rating:	100 L	atest Structure Condition		
RehabHistory:				
Regional Priority Number NatureOfProgramWork:		Programmed Work Year:		

Description: Middle barrel: View from east.



Description: North barrel: View from east.



Page 3 of 11

Description: South barrel: View from west.



Description: Middle barrel: View from west.



Description: North barrel: View from west.



Description: Barrel: Minor deformations throughout.



Page 5 of 11

Element Group:	Culverts	Site Number:	B-112
Element Name:	Barrels	Width:	1.2 m
Element type:		Height:	1.2 m
Sub-element:		Length:	12 m
Material:	Corrugated Steel	Count:	3
Location:		Total Quantity:	136 sqm
Environment:	Moderate	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (sqm): Exec: 134 Good:	0 Fair: 2 Poor: 0		
Rehab Needs:		Unit Cost:	
Rehab time period:	None Recommended	Estimated Cost:	
Quantity:	0		

General Comments:

Minor deformations throughout.



Element Group:	Culverts	Site Number:	B-112	
Element Name:	Inlet Components	Width:	3.6	m
Element type:		Height:	1.2	m
Sub-element:		Length:	0	m
Material:	Corrugated Steel	Count:	3	
Location:	East Side	Total Quantity:	3	sqm
Environment:	Moderate	Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (sqm): Exec: 3 Good:	0 Fair: 0 Poor: 0			
Rehab Needs:		Unit Cost:		
Rehab time period: Quantity:	None Recommended 0	Estimated Cost:		
General Comments:				





Element Inspection			
Element Group:	Embankments & Streams	Site Number:	B-112
Element Name:	Streams and Waterways	Width:	0 m
Element type:		Height:	0 m
Sub-element:		Length:	0 m
Material:		Count:	1
Location:		Total Quantity:	1 each
Environment:		Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Condition Data (each): Exec: 0 Good:	1 Fair: 0 Poor: 0	T. Walt Oak	
Rehab Needs:		Unit Cost:	
	None Recommended	Estimated Cost:	
Quantity:	0		
General Comments:			

Element Inspection				
Element Group:	Embankments & Streams	Site Number:	B-112	
Element Name:	Embankments	Width:	0	m
Element type:		Height:	0	m
Sub-element:		Length:	0	m
Material:		Count:	4	-
Location:		Total Quantity:	4	each
Environment:		Not inspected:		
Perform. deficiencies:		Maintenance Type:		
Maint needs:		Maint. Time Period:		
Condition Data (each): Exec: 0 Good: Rehab Needs: Rehab time period:	4 Fair: 0 Poor: 0	Unit Cost:		
Quantity:	None Recommended 0	Estimated Cost:		
Quantity.	U			
General Comments:				

Element Group:	Culverts	Site Number:	B-112			
Element Name:	Outlet Components	Width:	3.6	m		
Element type:		Height:	1.2	m		
Sub-element:		Length:	0	m		
Material:	Corrugated Steel	Count:	3			
Location:	West Side	Total Quantity:	3	sqm		
Environment:	Moderate	Not inspected:				
Perform. deficiencies:		Maintenance Type:				
Maint needs:		Maint. Time Period:				
Condition Data (sqm): Exec: 3 Good: 0 Fair: 0 Poor: 0						
Rehab Needs:		Unit Cost:				
Rehab time period: Quantity:	None Recommended	Estimated Cost:				

General Comments:



Element Group:	Decks	Site Number:	B-112
Element Name:	Wearing surface	Width:	9 m
Element type:		Height:	0 m
Sub-element:		Length:	3.6 m
Material:	Gravel	Count:	1
Location:		Total Quantity:	32 sqm
Environment:	Severe	Not inspected:	
Perform. deficiencies:		Maintenance Type:	
Maint needs:		Maint. Time Period:	
Rehab Needs:	None Recommended	Unit Cost: Estimated Cost:	

OSIM Biennial Inspection Report



Site Number:
B-105

Concession 4 NDR Lot 30 Culvert



West Approach

