

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B04282021-17	
Date: 4/22/2021	Inspected By: Butler	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	TCH-022 - MIDDLE BROOK CULVERT		
Route:	1	Overall Length:	20 m
Year Built:	1965	Est: No	Overall Width: 45 m
Year Last Rehab.:		Est: No	Roadway Width: 20 m
Region:	CENTRAL EAST	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	4 m
Type of Structure:	04 - Rigid Frame	Max Depth of N.W.L.:	1 m
Purpose of Structure:	04 - Over Non-Navigable Waters		
Type of Handrail:	06 - None	Spans:	
Roadway Surface:	02 - Asphalt	<u>Span No.:</u>	<u>Length</u>
Alignment Vertical:	01 - Good	1	11
Alignment Horizontal:	01 - Good	2	0
Restrictions:	No	3	0
		<u>Span No.:</u>	<u>Length</u>
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	Rigid frame structure. Concrete footings, abutments and wing walls. Footings have erosion and severe scaling. Some areas of disintegration with exposed rebar above footing near abutment one from erosion. Wing walls right side has medium map cracking throughout. Parapet wall right side significant amount of cracking. Some cracking of abutment walls, severe on the outside, minor inside. Severe vertical crack abutment one. Abutment #2 left has severe concrete erosion adjacent to the extension. Approximately 100mm to 300mm deep exposing rebar.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	I - Inapplicable
Comments:	Some light cracking and efflorescence throughout soffit. Leakage through longitudinal construction joint left side where structure was widened.		
DECK			

Condition:	U - Uninspectable	Curbs:	I - Inapplicable
Hand Rail:	I - Inapplicable	Roadway Condition:	I - Inapplicable
Approach Rail:	I - Inapplicable		
Comments:	Approximately five metres of fill over rigid frame. Standard type guide rail left and right on TCH in good condition. Shoulder washout on TCH both sides approximately 800mm deep.		
HYDROLOGY			
Water Velocity:	1.5 m/s	Ice Problem:	N - No Problem
Water Depth:	.5 m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Abutment #1 is scoured approximately 100mm to 300mm deep throughout its length. Abutment #2 is scoured approximately 500mm deep by 1500mm long on the left side adjacent to the extension.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Place Rehab on list for extensive concrete work to repair scour, concrete erosion and cracking. Repair shoulder washouts.		
OBSERVATIONS			
Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:			
LEGEND:			
Condition Definitions:		Problem Definitions:	
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.
G - Good.	P - Poor.		
Category Definitions:			
Maint. - Maintenance.			
Eng. - Engineering.			
Office - Bridge Office.			
PHOTO GUIDELINES:			
Inspection Photos:			
Please provide photos using guidelines below:			
<ul style="list-style-type: none"> ● Any item which inspector feels should be documented by photograph ● All items noted above as being P3, P1, P, or C ● Any evidence of known ice, scour, debris, waterway problems 			
INSPECTION PHOTOS			