

Bridge Culvert Inspection				
Bridge File Number	81207 -1 Bridge Culvert		Form Type	CUL1
Year Built	1988		Lot No.	2
Bridge or Town Name	OBED		Inspector Name	Shane Hall
Located Over	CNR		Inspector Class	BR CLS A
Located On	16:04 L1 5.635;16:04 R1 5.612		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	11-Aug-2012
Legal Land Location	SW SEC 9 TWP 53 RGE 22 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:11:39, 53:33:32		Data Entry Date	19-Sep-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA13		Review Date	12-Sep-2012
Clear Roadway/Skew	25.9 / 28 deg. (RHF)		Dept. Reviewer Name	Brent Herrick
AADT/Year	6,080 / 2011 (A)		Dept. Review Date	09-Oct-2012
Road Classification	RAD-412.4-120		Follow-Up By	
Detour Length (km)	3			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	19104	9600	CPA	172.6			ARCH
Special Features								
Special Features Comment								

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)			No									
Posted:	Lane	EB	On Bridge (m)		In Advance (Y/N)	No	Lane	WB	On Bridge (m)		In Advance (Y/N)	No
Remarks		Not required.										

Utilities (Located at)				
Utility Attachments				
Telephone	South r/w.		Gas	
Power	3 wires O/H North r/w. Power pole 10m from structure NW corner. Power boxes at NW.		Municipal	
Others	Fibre optics each side of track. No trespass sign North & South ends.		Problem (Y/N)	No
Remarks		Bridge plaque in place @ SW & NE.		

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Gradual curve. Super elevated.
Vertical Alignment		7	7	
Roadway Width (m)		25.000		12.5 EBL, 12.5 WBL.
Embankment		8	8	
Sideslope (___:1)		3.0		
(Height of Cover(m) : 2.5)				
Guardrail (Y/N)		Yes		3 damaged posts @ North rail midway. -photo Improper lap at mid length on S rail.
Approach Road / Embankment General Rating		7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)		CONCRETE		

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Headwall		6	6	Horizontal hairline to medium cracks in concrete in headwall area above roof. Both sides have these cracks which are leaching. 2 cracks in SW panel.
Collar		X	X	
Wingwalls (Shape :)		6	8	MSE concrete retaining walls. Vertical crack @ 4 SW panels; functional.
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 100)		8	8	Riprap for ditch drainage behind wingwall.
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 19104, Rise (mm): 9600, Type: CPA)				
Barrel Last Accessible Date				Danger sign. "No trespass" at both ends.
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Roof		8	8	No visual defects. Span & rise measurements not possible due to railway embankment. Non consistent location to measure from.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		8	8	No visual defects.
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		X	X	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		8	8	40-70mm gaps in panels. wide gaps.
Separation (mm)	70			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 19104, Rise (mm): 9600, Type: CPA)				
Longitudinal Seams		X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		X	X	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		X	X	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	8	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	Medium vertical and horiz. cracks.
Collar		X	X	
Wingwalls		7	7	MSE walls
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		8	8	Riprap for ditch drainage behind wingwalls.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 100)				
Scour/Erosion		8	8	(See page @ top NE corner between headwall & MSE wingwall. 09/Mar/2007)
Beavers (Y/N)	No			
Downstream End General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	
Roadway Surface		7	7	
(Type :)		Rail track.		
Icing (Y/N)	No			
Traffic Safety Features		7	4	Pedestrian safety feature. Fence damaged at SE corner.-photo
Type	Fence			
Lighting		X	X	
Barrel Leakage (Y/N)	No			
Drainage		7	7	
Structure In Use (Y/N)	Yes			
Grade Separation General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2013	Repair lap on South guardrail.					
OTHER ACTION	2013	Replace damaged guardrail post.					
OTHER ACTION	2013	Repair chain link fence at SE corner.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	88.9/88.9	Sufficiency Rating (Last/Now) (%)	86.0/85.9	Est. Repl. Yr	2056	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Todd Warshawski		Previous Assistant's Name				
Next Inspection Date	11-May-2014		Previous Inspection Date	28-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							