					Brida	e Culve	ert Inspe	ection			
Bridge File Num	Bridge File Number 74681 -1 Bridge Culvert					Form Type		CUL1			
Year Built 1957			.				Lot No.		2		
Bridge or Town Name THREE H			HILLS				Inspect	or Name	Owen Salava		
Located Over	ANIMAL, OVEF	SP			· · · · · · · · · · · · · · · · · · ·	or Class	BR CLS A				
Located On			1 25.827					nt Name			
Water Body Cl./	Year							Assistant Class			
Navigabil. Cl./Y							Inspect	ion Date	18-Sep-2012		
Legal Land Loc		NE SEC	C 36 TWP 30 R	GE 24 W	4M		Data Entry By Marcia Chavez				
Longitude, Latit	ude	-113:14	:38, 51:36:52				Data Entry Date		03-Oct-2012		
Road Authority			Transportation	(AIT)			1	Reviewer Name John O'Brien			
Contract Main.	Area	CMA20					Review Date 27-Sep-2012				
Clear Roadway	/Skew	11 / 50	deg. (RHF)				Dept. R	eviewer Name	Andrew Smikles		
AADT/Year			2011 (A)				<u> </u>	eview Date	16-Oct-2012		
Road Classifica	tion		1.8-110				· ·	bw-Up By			
Detour Length (km)	3					-	1 5			
Bridge Culvert		-									
Number of Culv			1								
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN		1518	2430		BP		67			RECTANGLE
Required Vert. Clearance Posting (m) Posted Vertical Clearance (Y/N) Posted: Lane NB On Bridge (m) In Advance (Y/N) No Lane SB On Bridge (m) In Advance (Y/N) No Remarks Not required. Vertical clearance Vertical clearance (Y/N) No Lane SB On Bridge (m) In Advance (Y/N) No Remarks Not required. Vertical clearance Vertical clearance <td>nce (Y/N) No</td>								nce (Y/N) No			
Remarks				A -			d / Engla				
				A	Last	Now		ankment ation of Condi	tion		
Horizontal Align	ment				Last 5	5	Explanation of Condition Sharp curve to South - super elevated.				
Vertical Alignme					5	5	Hill to South.				
Roadway Width (m)		10.800		0	0	No passing both directions. Fire damaged ACP at accident site.					
Embankment	Embaniment		7	7							
	•1)		3.0		1	1					
(Height of Cover(m) : 4.5) Guardrail (Y/N) Yes				Accident damage to E rail.							
Approach Roa	a / Emk	bankme	nt General Rat	ing	5	5					
							am End				
Culvert Component				Last	Now	Explan	atlan (C "	(!			
Direction End Treatment (Concrete, Steel,				101			ation of Condi	tion			
Others, None)		ete, Stee			W		-	ation of Condi	tion		
Others, None)	(Concre	ete, Stee	I, CONCRETE	:	W 7	7	-	ation of Condi	tion		

Alberta Transportation

			Unstre	am End
Culvert Component		Last	Now	Explanation of Condition
Collar		X	X	
Wingwalls			4	10mm wide diagonal crack in NW wing. Spall at top of wing. SW wingwall has moved 80mm South & has 20mm separation.
(Shape :)				
Cutoff Wall		X	X	
Bevel End		Х	Х	
Heaving (mm)	0			
Invert Above/Below Stream Bed	1			
Above/Below (mm)	0			
Scour Protection		6	6	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				-
Scour/Erosion		6	4	Apron cracked & settled 150mm (photo).
Beavers (Y/N)	No			
Unotroom End Conorol Doting		6	4	
Upstream End General Rating		6	4	
				Ivert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Loca		ın (mm): 1518	B, Rise (mm): 2430, Type: BP)
Barrel Last Accessible Date	18-Sep-2012			
Special Features		1		
Special Feature				
(Type:)				
Special Feature				
(Туре :)				
Roof		7	7	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		7	7	
Measured Span (mm)				
Measured At Ring No.				1
Deflection (mm)	0			
Percent Deflection				
Floor		7	7	5th panel on seam infiltration north gap 40 mm.
Bulge (mm)	0			
Measured At Ring No.				1
Abrasion (Y/N)	No			1
Circumferential Seams		4	4	Infiltration @ 2 seams @ North from West - 200mm high. Wide gap
Separation (mm)	40			in 2nd seam from East in roof - leaking. Each barrel section has a 20mm height difference on floor.
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)				1

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	lvert Barrel
Culvert Component		1		Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm		
Coating		X	Х	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		Х	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
		ם ח	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
Direction	<u> </u>	E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		Х	X	
Wingwalls		4	4	Moving in to 60 mm at SE (photo) - away from box 25 mm at North.
(Shape :)		· ·		
Cutoff Wall		Х	X	Apron floor.
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	7	Grown in with vegetation.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratir	ng	4	4	
			Structu	re Usage
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment			7	U/S apron cracked and heaved 150mm.
Roadway Surface			5	(Ponded 20 m lg x 100 mm dp at D/S. 1997/06/26).
(Type : CONCRETE)		5	-	
Icing (Y/N)	No			
Traffic Safety Features	l	Х	Х	Steel gate at S end not in use (open).
Туре	None			

Structure Usage							
	Last Now Explanation of Condition						
Lighting		X	X				
Barrel Leakage (Y/N)	Yes						
Drainage		5	5	(Structure takes flow from East. HWM 0.8 @ D/S. 04-Mar-2006).			
Structure In Use (Y/N)	Yes						
Grade Separation General Rating			5				

		Maintenance R	ecommendations		_					
Inspector Recommendations	Year	Inspector Comments	Department C	omments	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTO										
REPAIR SEAMS	2012	Plug seams with expanding foam.								
OTHER ACTION	2012	Seal gap at W apron.					_			
OTHER ACTION	2012	Guardrail repairs reset 8 posts, repl c/w spacer, replace 3 rail sections.	ace 5 posts							
OTHER ACTION	2012	Repave 210m2 ACP.								
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)		7.8 Sufficiency Rating (Last/ (%)	/Now) 69.9/67.9	Est. Repl. Yr 2025	Maint. Red	qd. (Y/N)	Yes			
Special Comments for Next Inspection (Water mark 500mm occasionally. 25Jun1	high at u/s en 997).	d indicates this box cuvlert handles dr	ainage Department Comments							
Maintenance Reviewed By			Date		Estimated Total	0				
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)	N									
Proposed Action	2006.10.24 Check site in two years for continued usage.									
Previous Inspector's Name	Dave Lam		Previous Assistant's Nam	e						
Next Inspection Date	18-Jun-2014		Previous Inspection Date	us Inspection Date 10-Nov-2010						
i	21									
Comment										