					Bridg	e Culve	ert Insp	ection						
Bridge File Number 71333 -1 Bridge Culvert							Form Type		CUL1					
Year Built		1955					Lot No			1				
Bridge or Town	Name	HINTO	N				Inspec	tor Name		Shane Hall				
Located Over  TRIBUTARY TO MASKUTA CK, 8. WATERCRS-ST  Located On  16:02 C1 9.354  Water Body Cl./Year  Navigabil. Cl./Year  Legal Land Location  Longitude, Latitude  -117:44:05, 53:16:52  Road Authority  Alberta Transportation (AIT)  Contract Main. Area  CMA13  Clear Roadway/Skew  13 / 10 deg. (RHF)  AADT/Year  4,240 / 2011 (A)  Road Classification  RAU-213.4-120  Detour Length (km)  999  Bridge Culvert Information  Number of Culverts  1  Pipe #  Barrel  Span  Rise (or Dia  1  MAIN  1430  1575  Special Features  Special Features Comment		, 8.11.	141.4,	-	tor Class		BR CLS A							
Located On								ant Name						
		10.02	31 3.304		Assistant Class									
								tion Date		06-Jul-2012				
		SE SE	C 4 TWP 50 RG	F 26 W5	 М			ntry By		Theresa Lacus	sta			
				L 20 WO				ntry Date		18-Sep-2012				
				(ΔIT)				ver Name		Eric Carcoux				
				(/ (  1 )			Reviev			20-Aug-2012				
										Brent Herrick				
								Review Da	ate	09-Oct-2012				
			. ,				Follow	-Up By						
	-		10.1 120				-							
							1			ı				
		<u></u>	1											
				Rise (or	r Dia.) Type			Length		Corr. Profile	Pl./Slab Thickness	Shape		
1 [	MAIN		1430	1575		SPE		70.1		152X51	3.0	ELLIPSE		
				0	70.1			102/101						
Special Features														
					Uti	ilities (L	ocated	at)						
Utility Attachmer									I					
Telephone North r/w.							Gas							
Power							Municipal							
Others							Proble	m (Y/N)	No					
Remarks No file tag seen. May be buried under dirt.														
	Approach Road / Embankment													
III · · · · · · · · · · ·					Last	Now	Explanation of Condition							
Horizontal Alignment				7	7	On a curve. On grade rising to east, limited sight distance. No passing EB.								
Vertical Alignme			40.000		6	6								
Roadway Width	(m)		13.000											
Embankment					7	7								
Sideslope (:	:1)		3.0											
(Height of Cover(m): 8)														
Guardrail (Y/N)			Yes				South	side only.						
Approach Road	d / Emb	oankme	ent General Rat	ing	6	6								
						Upstre	am Enc							
<b>Culvert Compo</b>	nent				Last	Now	Explar	nation of	Condi	tion				
Direction			N											
End Treatment (Concrete, Steel, Others, None)														
Headwall			Х	Х										
Collar					Х	Х								
Wingwalls					Х	Х								
(Shape: )														
Cutoff Wall	Cutoff Wall			X	X									

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		4	4	Perforations in floor. 1 log across inlet. Gravel layer on bevel end.
Heaving (mm)	100			on one and the most of long across small of a rest in a port of the control of th
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection	100	7	5	
(Type : RIP RAP)		'	J J	
, , ,				
(Avg. Rock Size(mm) : <b>250</b> ) Scour/Erosion		7	5	400mmx200mm erosion along NW corner of bevelphoto
Scourerosion		'	3	40011111X200111111 erosion along NVV corner of beverprioto
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		Brid	dae Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN			<u>'                                    </u>
Barrel Last Accessible Date	06-Jul-2012	5 p 3.11 (111111	,	, ()
Dailei Lasi Accessible Dale	00-Jul-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type : )				
Roof		7	7	
Measured Rise (mm)	1560			
Measured At Ring No.	6			
Sag (mm)	15			
Percent Sag	1			
Sidewall		7	2	Ring12-50mmx50mm hole @ 9:00 construction damagephoto
Measured Span (mm)	1440			Longitudinal seam separated in ring 3.
Measured At Ring No.	6			
Deflection (mm)	10			
Percent Deflection	1			
	1	2		Derferentian up to 220 y 50 in single 4.2. Croyel on floor ever single 4.
Floor	0	3	3	Perforation up to 230 x 50 in rings 1-3. Gravel on floor over rings 1 5. Perforations visible above gravel.
Bulge (mm)	0			-
Measured At Ring No.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
Abrasion (Y/N)	Yes			
Circumferential Seams	1.	7	7	
Separation (mm)	0			
Longitudinal Seams	I	6	2	Ring 3-Longitudinal seam separated 80mm @ 7:00 position over
Total No. of Cracked Rings	0			400mm lengthphoto 4 bolts missing
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	3	Floor covered with perforations in floor near u/s in rings 1-3.
Corrosion By Soil (Y/N)	Yes	•		
Corrosion By Water (Y/N)	Yes			Bottom 0.5m width of floor has pitting/scaling rust.
Concolon by Water (1/14)				
Camber POS/ZERO/NEG	ZERO			

		Brid		vert Barrel								
Culvert Component				Explanation of Condition								
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	): 1430	, Rise (mm): 1575, Type: SPE)								
Fish Passage Adequacy		4	4	Outlet invert perched above streambed, est 500mm.								
Baffle		Х	X									
(Type:)												
Waterway Adequacy		7	7	(Iced to within 500 of crown, 00/04/21)								
Icing (Y/N)	No											
Silting (Y/N)	No											
Drift (Y/N)	No											
Barrel General Rating		3	2									
Downstream End												
Culvert Component		Last	Now	Explanation of Condition								
Direction		S										
End Treatment (Concrete, Steel, Others, None)	STEEL											
Headwall		X	X									
Collar		Х	Х									
Wingwalls		Х	Х									
(Shape: )												
Cutoff Wall		Х	Х									
Bevel End			6									
Heaving (mm)	0											
Invert Above/Below Stream Bed ABOVE												
Above/Below (mm)	500											
Scour Protection			4									
(Type : RIP RAP)												
(Avg. Rock Size(mm) : <b>200</b> )												
Scour/Erosion		4	4	Bevel undermined. 1m long, 500mm deep.								
Beavers (Y/N)	No											
Downstream End General Rating			4									
		S	tructur	re Usage								
		Last	Now	Explanation of Condition								
Channel (U/S and D/S)												
Alignment			6									
Bank Stability			7									
HWM (m below Top of Culvert)				HWM not visible.								
Drift (Y/N) Yes				Small sized drift.								
Channel Bottom DEGRADING Degrading/Aggrading												
Beavers (Y/N) No												
(Fish Compensation Measure 1 :	NONE)											
(Fish Compensation Measure 2 :	NONE)											
Channel General Rating		6	6									

			Maintenance	Recommen	dations					
Inspector Recommendations	Year	Inspecto	or Comments		Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS								3		
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION	2012	Remove	log across inlet.							
INSTALL CONCRETE/STEEL LINING	3									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION	2013	Program	n for replacement.							
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	low) 33.3/2	22.2	Sufficiency Rating (Last/Now) (%)		38.3/33.0	Est. Repl. Yr	2015	2015 Maint. Re		Yes
Special Monitor corrosion a Comments for Next Inspection	and separated	longitudinal	seam.		Department Comments					
Maintenance Reviewed By					Date		E	Estimated Tota	1 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Eric Carcoux			Assistant's Name						
Next Inspection Date	06-Apr-2014			Previous	Inspection Date	15-Sep-2010				
Inspection Cycle (Default) (months) 21										
Comment										