Bridge File Number 77484 - 1 Bridge Culvert Form Type CUL1  Year Built 1974 Lot No. 3  Bridge or Town Name KANANASKIS Inspector Name Garry Roberts  Located Over TRIBUTARY TO KANANASKIS RIVER, 2.13.56.8, WATERCRS-ST Located On 40:12 C1 27.025  Water Body CI./Year Navigabil. CI./Year Legal Land Location NE SEC 1 TWP 23 RGE 9 W5M Longitude, Latitude -115:07:35, 50:55:58 Road Authority Alberta Transportation (AIT) Contract Main. Area CMA28 Clear Roadway/Skew 15.2 / -30 deg. (LHF) AADT/Year 1,690 / 2012 (A) Road Classification RAU-210-110 Detour Length (km) 50  Bridge Culvert Inspection Form Type CUL1 Fo													
Bridge File Num	ber	77484	-1 Bridge Culve	rt						CUL1			
Year Built 1974													
Bridge or Town	Name	KANAN	NASKIS				Inspec	tor Name		Garry Roberts			
Located Over		TRIBU	TARY TO KANA	NASKIS S-ST	RIVER	₹,	· ·						
Located On		40:12 C1 27.025											
			C 1 TWP 23 RG										
Longitude, Latitude -115:07:35					•					•			
									·				
Contract Main. Area CMA28		·	( )						•				
Clear Roadway/Skew 15.2 / -30													
AADT/Year 1,690 / 20									06-May-2013				
				Follow-Up By									
Bridge Culvert Information  Number of Culverts 1													
										1			
			1										
Pipe #	Barrel Span		Span	Rise (or Dia.)		Туре	Туре			Corr. Profile	Pl./Slab Thickness	Shape	
1 1	MAIN		1738	1920		SPE		82.3		152X51	3.0	ELLIPSE	
Special Feature	 S		DRIFT CATCH	ER				'					
		nent											
Special Features Comment  Utilities (Located at)													
Utility Attachme	nts				<u> </u>		ooutou	ui)					
Utility Attachments  Telephone Both row. Gas													
Telephone Both row. Power Crosses South.							Munici	nal					
									No				
Others Fiber optics in West ROW. Problem (Y/N) No Remarks													
				Α	pproac	ch Road	l / Emb	ankment					
					Last	Now	Explanation of Condition						
Horizontal Alignment				5	5	Entrance to Emergency Services North and South - extra turn lane added. Limited sight distance to south.							
Vertical Alignment					6	6	lane a	dded. Lim	ited sig	ght distance to s	south.		
Roadway Width (m)		15.200											
Embankment					7	7							
Sideslope (	:1)		4.0										
(Height of Cov	/er(m) :	1.8)											
Guardrail (Y/N)			No										
Approach Road	d / Emb	ankme	ent General Rat	ing	5	5							
						Unstre	am Enc						
Culvert Compo	nent				Last	Upstream End ast Now Explanation of Condition							
Direction Direction		Е		_	East. Located on East side of berm.								
Culvert Component  Direction  End Treatment (Concrete, Steel, Others, None)													
Headwall					Х	X							
Collar			X	Х									
Wingwalls				X	X								
(Shape: )													
Cutoff Wall					X	X							

77484 -1 Bridge Culvert

			l le etue	on Fod
Culvert Component		Last		eam End Explanation of Condition
Bevel End		Last 5	Now 5	Dents in sides of bevel (tear in floor
	0	5	<u> </u>	of bevel - 950322). Floor gravel covered.
Heaving (mm) Invert Above/Below Stream Bed	BELOW			
				_
Above/Below (mm)	400	7	T -	
Scour Protection		7	7	
(Type : RIP RAP)				_
(Avg. Rock Size(mm) : <b>150</b> )				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating	'	5	5	
		Brid	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,			· ·
Barrel Last Accessible Date	01-Apr-2013		•	
Special Features	<u> </u>			
Special Feature		6	6	Rock catchers extended U/S & existing planks gapped to allow better
(Type : DRIFT CATCHER)				flow
Special Feature			Rock build up to top of catcher at U/S side.	
(Type:)				-
Roof		7	7	Not measured- 1.3m gravel to roof.
Measured Rise (mm)				Roof lines appear good.
Measured At Ring No.				_
Sag (mm)				Estimate.
Percent Sag	3			-
Sidewall	10	7	7	Inward.
Measured Span (mm)	1675			_ invard.
Measured At Ring No.	16			_
Deflection (mm)	63			-
Percent Deflection	3			-
Floor	J	N	N	Average 400mm deep of gravel and rock.
Bulge (mm)		IN	N	Average 400mm deep of graver and rock.
Measured At Ring No.				-
Abrasion (Y/N)	Yes			
	1 53	7	7	Toar in roof ranginal partial plate
Circumferential Seams	0	7	7	Tear in roof repaired-partial plate bolted in @ midspan.
Separation (mm)	U	7	7	<u> </u>
Longitudinal Seams Total No. of Cracked Pings		7	7	Only viewed top seams due to gravel.
Total No. of Cracked Rings  Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating	110	6	6	Minor soil staining at South seams. Minor superficial corrosion @
Corrosion By Soil (Y/N)	Yes	U	U	unpainted bevel ends & abrasion areas @ sidewall
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1738, Rise (mm): 1920, Type: SPE)									
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (note: Fish Passage Adequacy  Baffle (Type : )  Waterway Adequacy Icing (Y/N) Silting (Y/N) Drift (Y/N) No  Barrel General Rating  Culvert Component Direction  Waterway Adequacy Last		5	5	Dry.					
Baffle		Х	Х						
(Type:)									
Fish Passage Adequacy  Baffle (Type:)  Waterway Adequacy Icing (Y/N) No Silting (Y/N) Yes Drift (Y/N) No  Barrel General Rating  Culvert Component		5	5	600 mm deep rock & gravel on					
Icing (Y/N)	No			floor. 630 at D/S.					
Silting (Y/N)	Yes			555 dt 575.					
Drift (Y/N)	No								
Barrel General Rating		7	7						
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		W		West.					
Others, None)	STEEL								
Headwall		Х	X						
Collar			X						
Wingwalls		X	X						
(Shape: )									
Cutoff Wall		Х	X						
Bevel End		7	7						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	500		1						
Scour Protection		7	7						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 250)									
Scour/Erosion		7	7						
Beavers (Y/N) No									
Downstream End General Ratio	ng	7	7						
		S	tructur	e Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)		6	1						
Alignment			6	Pedestrian bridge located 30m West of d/s end.					
Bank Stability		6	5	North bank is starting to erode from flow around rock catcher.					
HWM (m below Top of Culvert)	0.5			HWM 2005-09-16					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	AGGRADING			Both ends.					
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	·								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		6	6						

Bridge Inspection & Maintenance System (Web 2005)

				Maintenar	nce Recommend	dations					
Inspector Recommendations	Ye	Year Inspector Comments				Department Con	nments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LININ	G										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTOFF											
REPAIR SEAMS											
OTHER ACTION		013	Clean U/S catcher.	S channel on both sid	des of rock						
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/I (%)	Now) 77	77.8/77.8		Sufficiency Rating (Last/Now) (%)		65.2/65.1	Est. Repl. Yr	2030	Maint. Re	qd. (Y/N)	Yes
Special Gravel levels in cu working and shoul	lvert are as d be mainta	low as ined. C	s they have G. Roberts	e ever been indicating April 1,2013	g rock catcher is	Department Comments					
Maintenance Reviewed By						Date			Estimated Tota	1 0	
Proposed Long-Term Strategy								,			
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Garr		Garry Roberts			Previous	evious Assistant's Name					
		01-Jan-2015			Previous	Inspection Date	1				
Inspection Cycle (Default) (months) 21						1	25-May-201				
Comment											