Bridge Culvert Inspection												
Bridge File Nur	nber	77792 -	1 Bridge Culve	rt			Form Type	CUL1	CUL1			
Year Built		1973				Lot No.	4	4				
Bridge or Town	Name	CALGA				Inspector Name	Garry Roberts	Garry Roberts				
Located Over		CPR				Inspector Class	BR CLS A	BR CLS A				
Located On		2:15 R1	1 33.889			Assistant Name						
Water Body Cl.	/Year					Assistant Class						
Navigabil. Cl./Y	'ear						Inspection Date	15-Jan-2013	15-Jan-2013			
Legal Land Loc	ation	SW SE	C 24 TWP 24 F	RGE 1 W5M	5M		Data Entry By	Kelsey Robert	ts			
Longitude, Latit	tude	-114:01				Data Entry Date	a Entry Date 03-Feb-2013					
Road Authority		Alberta	(AIT)			Reviewer Name	viewer Name Tom Carey					
Contract Main.	Area	DEERF				Review Date 22-Jan-2013						
Clear Roadway	/Skew	44 / -45	deg. (LHF)				Dept. Reviewer Nam	e Tim Davies	Tim Davies			
AADT/Year		159,880	0 / 2011 (A)				Dept. Review Date	04-Feb-2013	04-Feb-2013			
Road Classifica	ation	RFD-41	2.4-130				Follow-Up By					
Detour Length	(km)	1										
Bridge Culvert	Inform	ation										
Number of Culv	/erts		1	1								
Pipe #	Barrel		Span	Rise (or Dia.	) Ty	pe	Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		7300	8830	RP	PE	148	152X51	5.0	ELLIPSE		
Special Feature	es											
Special Feature	es Comn	nent										
					Postir	na In	formation					
Required Vert	Clearan	co Posti	ing (m)		USUI	ng m	Tormation					
Posted Vertical	Clearar	001 030	I) No									
Posted: Lane	FB	On F	Bridge (m)	In Advance	- (Y/N		lo Lane WB	On Bridge (m)	In Advan	ce (Y/N) No		
Remarks	Not re	auired		III/lavano	5 (1/14	•)			III / WWW			
Utility Attachme	Utilities (Located at)											
Telephone	ents				Jtilitie	es (L	ocated at)					
	ents @ SW	·			Jtilitie	es (L	ocated at) Gas					
Power	ents @ SW Multipl	le wires	to East & West		Jtilitie	es (L	ocated at) Gas Municipal					
Power Others	ents @ SW Multipl Light s	/. le wires standard	to East & West		Jtilitie	es (L	ocated at) Gas Municipal Problem (Y/N) No					
Power Others Remarks	ents @ SW Multipl Light s	'. le wires standard	to East & West ls.		Jtilitie	es (L	ocated at)GasMunicipalProblem (Y/N)No					
Power Others Remarks	ents @ SW Multipl Light s	r. le wires standard	to East & West ls.	Appro	Jtilitie ach F	es (L	ocated at) Gas Municipal Problem (Y/N) No					
Power Others Remarks	ents @ SW Multipl Light s	r. le wires standard	to East & West	Appro	Jtilitie Pach F	es (L Road	ocated at) Gas Municipal Problem (Y/N) No / Embankment Explanation of Con	lition				
Power Others Remarks Horizontal Aligr	ents @ SW Multipl Light s	'. le wires standard	to East & West ls.	Appro	Jtilitie Pach R	es (L Road ow 6	ocated at) Gas Municipal Problem (Y/N) No / Embankment Explanation of Con Curves.	dition				
Power Others Remarks Horizontal Aligr Vertical Alignm	ents @ SW Multipl Light s	r. le wires standard	to East & West ls.	Appro Las	Jtilitie ach R	es (L Road ow 6 6	ocated at)   Gas   Municipal   Problem (Y/N)   No   / Embankment   Explanation of Cont   Curves.   On crest curve.	dition				
Power Others Remarks Horizontal Aligr Vertical Alignm	ents @ SW Multipl Light s	e wires tandard	to East & West	Appro Las 6	Jtilitie ach F	Road ow 6 6	ocated at) Gas Municipal Problem (Y/N) No / Embankment Explanation of Con Curves. On crest curve. B4308	dition				
Power Others Remarks Horizontal Align Vertical Alignm Roadway Width	ents @ SW Multipl Light s nment ent n (m)	/. le wires standard	to East & West Is.	Appro Las	Jtilitie Pach R St No	Road ow 6 6	ocated at) Gas Municipal Problem (Y/N) No / Embankment Explanation of Con Curves. On crest curve. B4308	dition				
Power Others Remarks Horizontal Aligr Vertical Alignm Roadway Width Embankment	ents @ SW Multipl Light s nment ent n (m)	'. e wires standard	to East & West ls. 44.000		Jtilitie ach F st No	es (L Road ow 6 6	ocated at) Gas Municipal Problem (Y/N) No / Embankment Explanation of Con Curves. On crest curve. B4308	dition				
Power Others Remarks Horizontal Aligr Vertical Alignm Roadway Width Embankment Sideslope (	ents @ SW Multipl Light s nment ent (m) .:1)	'. le wires utandard	to East & West ls. 44.000	Appro Las 6 6 7	Jtilitie Pach F st No	es (L Road ow 6 6 6	ocated at) Gas   Municipal   Problem (Y/N) No / Embankment Explanation of Con Curves. On crest curve. B4308	lition				
Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (	ents @ SW Multipl Light s nment ent n (m) _:1) ver(m) :	/. le wires standard	to East & West Is. 44.000	Appro Las 6 6 7	Jtilitie	es (L Road ow 6 6 6	ocated at)   Gas   Municipal   Problem (Y/N)   No   / Embankment   Explanation of Cont   Curves.   On crest curve.   B4308	dition				
Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (	ents @ SW Multipl Light s nment ent n (m) .:1) ver(m) :	/. le wires standard	to East & West Is. 44.000 4.0 No	Appro Las 6 6 7	Jtilitie	es (L Road ow 6 6 7	ocated at)   Gas   Municipal   Problem (Y/N)   No   / Embankment   Explanation of Conc   Curves.   On crest curve.   B4308	dition				
Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (	ents @ SW Multipl Light s nment ent (m) .:1) ver(m) : ad / Emb	/. le wires standard 1.2) pankme	to East & West Is. 44.000 4.0 No No	:. Appro Las 6 6 6 7 7	Jtilitie	es (L Road ow 6 6 7 7	ocated at)   Gas   Municipal   Problem (Y/N)   No   // Embankment   Explanation of Conc   Curves.   On crest curve.   B4308	dition				
Power Others Remarks Horizontal Aligr Vertical Alignm Roadway Width Embankment Sideslope (	ents @ SW Multipl Light s nment ent (m) .:1) ver(m) : ad / Emb	r. le wires standard 1.2)	to East & West ls. 44.000 4.0 No nt General Rat	:. Appro Las 6 6 7 7	Jtilitie	es (L Road ow 6 6 7 7 6	ocated at) Gas   Municipal   Problem (Y/N) No / Embankment Explanation of Con Curves. On crest curve. B4308	dition				
Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (	ents @ SW Multipl Light s nment ent (m) .:1) ver(m) : d / Emb	r. le wires standard 1.2)	to East & West ls. 44.000 4.0 No nt General Rat	Appro Las 6 6 7 7	Jtilitie	es (L Road ow 6 6 6 7 7 6 strea	am End	lition				
Power Others Remarks Horizontal Aligr Vertical Alignm Roadway Width Embankment Sideslope (	ents @ SW Multipl Light s hment ent (m) .:1) ver(m) : d / Emb bment	/. le wires standard 1.2)	to East & West ls. 44.000 4.0 No nt General Rat	ing 6	Jtilitie	es (L Road ow 6 6 6 7 7 6 strea ow	ocated at)   Gas   Municipal   Problem (Y/N)   No   // Embankment   Explanation of Cont   Curves.   On crest curve.   B4308	dition				
Power Others Remarks Horizontal Aligr Vertical Alignm Roadway Width Embankment Sideslope (	ents @ SW Multipl Light s hment ent (Concre	r. le wires standard 1.2) pankme ete, Stee	to East & West ls. 44.000 4.0 No <b>nt General Rat</b>	ing 6	Jtilitie	es (L Road ow 6 6 6 7 7 6 stree ow	ocated at)   Gas   Municipal   Problem (Y/N)   No   / Embankment   Explanation of Cont   Curves.   On crest curve.   B4308	dition				
Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (	ents @ SW Multipl Light s nment ent (Concree	r. le wires standard 1.2) pankme ete, Stee	to East & West ls. 44.000 4.0 No nt General Rat	Appro Las 6 6 6 7 7 sing 6 Las	Jtilitie	es (L Road ow 6 6 7 7 6 8 strea ow	ocated at)   Gas   Municipal   Problem (Y/N)   No   // Embankment   Explanation of Conc   Curves.   On crest curve.   B4308	dition				

Alberta Transportation

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
ollar		6	6	Random medium width cracks @ collar.
Wingwalls			Х	
(Shape : )				
Cutoff Wall		Х	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			_
Above/Below (mm)	2000			
Scour Protection		7	7	
(Type : CONCRETE)				_
(Avg. Rock Size(mm) : )			-	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 7300	), Rise (mm): 8830, Type: RPE)
Barrel Last Accessible Date	15-Jan-2013			
Special Features		1		
Special Feature				Safety pipe railing @ ends.
(Type:)				-
Special Feature				
(Type:)				
Roof	1	7	7	-
Measured Rise (mm)				-
Measured At Ring No.				-
Sag (mm)				-
Percent Sag				
		4	4	light cracks @ rings 16 & 17 @ North side - no change
Measured Span (mm)				To high to measure
Deflection (mm)				
Deflection (mm)				-
		V	N	
		×	IN	Raliway & gravel.
Moseured At Ping No.				-
Abrasion (Y/N)				-
Circumforantial Sacma		7	7	
Circumierential Seams	0	1	1	
	U	4	4	
Tatal Na st Oraclus d Din na	0	4	4	Rings 16 & 17 @ North side - 115mm remaining steel @ cracks. No
Total No. of Cracked Rings	2			growth in cracks Jan. 2013 inspection.
Cracked Seams	0			_
Min. Remaining Steel Between Cracks (mm)	115			
Proper Lap (Y/N)	No			No stagger at sidewall seams
Longitudinal Stagger (Y/N)	No			41N stagger at root seams

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

77792 -1 Bridge Culvert

	Bridge Culvert Barrel						
Culvert Component		Last	Now	Explanation of Condition			
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	i <mark>n (mm</mark>	): 7300	, Rise (mm): 8830, Type: RPE)			
Coating		5	5	Alkali @ 50% of top sidewall & roof			
Corrosion By Soil (Y/N)	Yes			Some minor corrosion stains @ roof @ ring 20.			
Corrosion By Water (Y/N)	No						
Camber POS/ZERO/NEG	ZERO						
Ponding (Y/N) No							
Fish Passage Adequacy			X				
Baffle			Х				
(Туре : )			-				
Waterway Adequacy		X	X				
Icing (Y/N)	No						
Silting (Y/N)	No						
Drift (Y/N)	No						
Barrel General Rating		4	4				
		D	ownstr	eam End			
Culvert Component		Last	Now	Explanation of Condition			
Direction				East end.			
End Treatment (Concrete, Steel, Others, None)	CONCRETE						
Headwall		7	7	A few wide cracks @ headwall.			
Collar		6	6	Random medium width cracks @ collar.			
Wingwalls		Х	Х				
(Shape : )							
Cutoff Wall		X	X				
Bevel End		7	7				
Heaving (mm)	0						
Invert Above/Below Stream Bed	BELOW						
Above/Below (mm)	2000						
Scour Protection		7	7				
(Type : CONCRETE)							
(Avg. Rock Size(mm) : )							
Scour/Erosion		7	7				
Beavers (Y/N)	No						
Downstream End General Ration	ng	6	6				
		s	Structur	e Usage			
		Last	Now	Explanation of Condition			
Grade Separation							
Road Alignment		X	X	Railway.			
Roadway Surface		7	7				
				1			

Structure Usage								
		Last	Now	Explanation of Condition				
(Type : <b>GRAVEL</b> )								
Icing (Y/N)	No							
Traffic Safety Features			X					
Туре								
Lighting			X					
Barrel Leakage (Y/N)	Yes			Leakage at both sidewalls and roof of rings 15-20				
Drainage		7	7					
Structure In Use (Y/N)	Yes							
Grade Separation General Rating		7	7					

77792 -1 Bridge Culvert

Maintenance Recommendations											
Inspector Recommendations		Year	Inspector Comments		Department Comments				Est. Cost	Cat #	
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
NSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC	DFF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		44.4/44.4 Sufficiency Rating (Lat (%)		ow) E	61.8/61.8 Est. Repl. Yr 203		2033	Maint. Reqd. (Y/N) No		No	
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By					Date		E	Estimated Tota	I 0		
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Garry F	Sarry Roberts Previous /			Assistant's Name						
Next Inspection Date	15-Oct	15-Oct-2014			evious Inspection Date 16-Jan-2012						
Inspection Cycle (Default) (months)	21										
Comment											