					Drida	o Culve	art Inon	ation					
Duides File Non						e Cuive	Ivert Inspection			CUL1			
Bridge File Number 77221 -1 Bridge Culvert Year Built 1970						Form Type							
Bridge or Town Name CALGARY			DV					Lot No. 3					
										Garry Roberts			
Located Over	NIMAL, OVER SP				Inspector Class			BR CLS A					
Located On	43.528;2:15					Assistant Name							
Water Body Cl./Year				Assistant Class				_					
Navigabil. Cl./Y					Inspection Date				14-Jan-2013				
Legal Land Location NW SEC			C 14 TWP 25		5M		Data Entry By			Lauren Korte			
Longitude, Latit	ude	-114:02:	22, 51:08:13					Data Entry Date		28-Jan-2013			
Road Authority Alberta T							Reviewer Name		Tom Carey				
Contract Main. Area DEERFO			OOT/STONEY					Review Date		17-Jan-2013			
Clear Roadway/Skew 50 /					Dept. Reviewer Name Tim Davies								
AADT/Year		92,100 /	2011 (A)		Dept. Review Date		29-Jan-2013						
Road Classifica	ition	RFD-616	6.6-130				Follow-Up By						
Detour Length	(km)												
Bridge Culvert	Inform	ation											
Number of Culv	erts		1										
Pipe #	Barrel	3	Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		1850	50 2300		RPP		89		152X51		PIPE ARCH	
Special Feature	es												
Special Feature	es Comi	ment											
					Ро	sting Ir	nformati	on					
Required Vert.													
Posted Vertical									-		1		
Posted: Lane			ridge (m)	In Adv	ance (Y/N)	No L	ane WB	O	n Bridge (m)	In Adva	nce (Y/N) No	
Remarks	Not re	quired.											
					Uti	lities (L	ocated	at)					
Utility Attachme	nts												
Telephone	In are						Gas						
Power	Main 1	transmiss	sion lines to	West.			Municip						
Others	Light	standards	S				Problei	n (Y/N)	No				
Remarks													
				Α				ankment					
					Last 6	Now	Explanation of Condition						
Horizontal Align						6		Turnout lane. B1710 Grade up to North.					
Vertical Alignment				6	6	Grade	up to Nort	.11.					
Roadway Width	n (m)		50.000										
Embankmant					2	1	Lovele	var nina 9	2 2.1 0	t sides at Fast	4.1 ot \\\oot		
Embankment		2.0	3	4	1x1x11m long erosion		osion a	at sides at East 4:1 at West. n at East side slope.					
Sideslope (4.5\	2.0				-	ŭ			•		
(Height of Co		1.5)	\										
Guardrail (Y/N) Yes						Guardrail East & parapets West. Cable barrier			e barrier at me	edian.			
Approach Roa	d / Eml	oankmen	t General R	ating	6	6							
						Upstre	am End						
Culvert Compo	onent				Last	Now	Explan	ation of C	Condit	tion			
Direction					E		East.						
End Treatment (Concrete, Steel, Others, None)		, NONE											
Headwall					Х	X							
Collar				Х	Х								

77221 -1 Bridge Culvert

				am End				
Culvert Component		Last	Now	Explanation of Condition				
Wingwalls		X	X					
(Shape:)								
Cutoff Wall			X					
Bevel End		Х	Х					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	200							
Scour Protection		7	7					
(Type : NATURAL)								
(Avg. Rock Size(mm):)								
Scour/Erosion		7	7					
	T							
Beavers (Y/N)	No							
Upstream End General Rating	·	7	7					
Culvert Component			Now	vert Barrel				
<u> </u>	tion Code: MAIN See			Explanation of Condition				
(Pipe # : 1, Primary Span, Loca		111 (11111	1). 1000	, Kise (IIIIII). 2300, Type. KFF)				
Barrel Last Accessible Date	14-Jan-2013							
Special Features								
Special Feature								
(Type:)								
Special Feature								
(Type:)								
Roof		4	4	300mm tear at roof at ring #6 from East. Roof rates 7 other than				
Measured Rise (mm)	2393			here.				
Measured At Ring No.	16			Upward.				
Sag (mm)	93							
Percent Sag	4							
Sidewall		6	6					
Measured Span (mm)	1730							
Measured At Ring No.	20							
Deflection (mm) 120								
Percent Deflection	6							
Floor		7	7	Gravel to 700mm thick on floor at West 12 rings only.				
Bulge (mm)	0							
Measured At Ring No.								
Abrasion (Y/N)	No							
Circumferential Seams		6	6	One bolt missing at seam between #15 & #16 rings.				
Separation (mm)	0							
Longitudinal Seams		7	6	Isolated bolt tipping and pulling into plates.				
Total No. of Cracked Rings	0							
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		5	5	Alkali stains at bolts- isolated.				
Corrosion By Soil (Y/N) Yes								
Corrosion By Water (Y/N) No				1				

		Brio	dge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1850	, Rise (mm): 2300, Type: RPP)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	X	
Baffle		Х	X	
(Type:)				
Waterway Adequacy		Х	7	Also handles drainage.
Icing (Y/N)	No			12 D/S rings are silted to 700mm.
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		4	4	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		W		West.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		Х	X	
Collar		X	X	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		Х	Х	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	7	
(Type : NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
				re Usage
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	
Roadway Surface		5	5	
(Type:)	T			
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Туре				
Lighting		Х	X	
Barrel Leakage (Y/N)	No			

Structure Usage							
		Last	Now	Explanation of Condition			
Drainage		6	6				
Structure In Use (Y/N) Yes							
Grade Separation General Rating			5				

Bridge Inspection & Maintenance System (Web 2005)

		Maintenance	Recommendations					
Inspector Recommendations	Year	Inspector Comments	Department Com	Department Comments				
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP	2013	Repair NE ditch erosion approx 3 and top soil.	30m3 pit run					
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LINING								
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUTO	FF							
REPAIR SEAMS								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/No (%)	w) 44.4/44	Sufficiency Rating (La (%)	st/Now) 62.5/55.0	Est. Repl. Yr 2023	Maint. Re	qd. (Y/N)	Yes	
Special Comments for Next Inspection			Department Comments					
Maintenance Reviewed By			Date		Estimated Tota	I 0		
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name	vious Assistant's Name				
Next Inspection Date	14-Oct-2014		Previous Inspection Date	ous Inspection Date 10-Apr-2011				
	 21							
1 - 7 - 1 - 1 - 1 - 1								