					Bridg	e Culve	rt Insp	ection				
Bridge File Nur	mber	75557 -	1 Bridge Culver	rt		71		CULM				
Year Built		1962					Lot No.		1			
Year Built Bridge or Town Name Located Over 2ND ORDER TRIBUTARY TO 8.11.84.12.8.1, WATERCRS-S Located On 769:02 C1 23.347 Water Body Cl./Year Navigabil. Cl./Year Legal Land Location Longitude, Latitude -114:22:37, 54:21:37 Road Authority Alberta Transportation (AIT) Contract Main. Area CMA10 Clear Roadway/Skew 7.9 / AADT/Year NEERLANDIA 2ND ORDER TRIBUTARY TO 8.11.84.12.8.1, WATERCRS-S 8.11.84.12.81.1, WATERCRS-S 8.11.84.12.81.1, WATERCRS-S 8.11.84.12.81.1, WATERCRS-S 8.11.84.12.81.1, WATERCRS-S 8.11.84.12.81.1, WATERCRS-S 8.11.84.12.81.							Inspec	tor Name		Wade Nanninga		
Priorition Name NEERLANDIA						.CK,	Inspector Class		BR CLS B			
Pear Built Bridge or Town Name NEERI Located Over Located On Water Body CI./Year Navigabil. CI./Year Legal Land Location Longitude, Latitude Road Authority Contract Main. Area CMA10 Clear Roadway/Skew 7.9 / AADT/Year Road Classification Detour Length (km) Bridge Culvert Information Number of Culverts Pipe # Barrel MAIN MAIN MAIN MAIN MAIN MAIN Special Features Special Features Special Features Cothers Remarks BF tag installe Horizontal Alignment							Assistant Name					
Water Body Cl.	Arear Built Bridge or Town Name Cocated Over Cocated On Cocate							ant Class		40. 4 0044		
•								tion Date		19-Aug-2011		
Pear Built 1962 Bridge or Town Name NEERLANDIA Located Over 2ND ORDER TRIBUTARY TRIBUT				GE 3 W5	M			Data Entry By Theresa Lacusta Data Entry Date 04-Oct-2011				
Prior Built Bridge or Town Name Located Over Located On Rotal Research Road Authority Road Classification Roud-2 R		2:37, 54:21:37					Reviewer Name Eric Carcoux					
Road Authority	,	Alberta	Transportation	(AIT)				Review Date 21-Sep-2011				
Contract Main.	Area	CMA10	•			Dept. Reviewer Name Brent Herrick						
Clear Roadway	//Skew	7.9 /			Dept. Reviewer Name Dept. Review Date			05-Oct-2011				
AADT/Year 270 / 201		010 (A)				Follow			00 001 2011			
Road Classifica	ation	RCU-20	08-110				lonow	ор Бу				
Detour Length (km) 3												
Bridge Culvert InformationNumber of Culverts2Pipe #BarrelSpanRise (colspan="3">Rise (colspan="3")												
	verts			I				I		I		
Pipe #	Barrel				Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN		1829	1118		FP		24.4		68X13		ARCH
2	MAIN		1829	1118		FP		24.4		68X13		ARCH
Special Feature	es		VERT STEEL S	STRUTS								
Special Feature	es Com	ment										
					l lei	lities (l	ocated	at)				
Utility Attachme	ents				O (i	III CO (L	-ocatice	at)				
		r/w.					Gas		(Centi	ral Pipeline) 50	m north.	
			w. 1 line power	crossing i	road 50) m	Munici	oal	(
South.						m (Y/N)	No					
			outh pi	ne ne								
							l / Emb	ankment				
					Last	Now	Explanation of Condition					
Horizontal Aligi	nment				7	7	SH 661 intersection 60 m South.					
Vertical Alignm	ent				8	8						
Roadway Width (m) 7.900												
Embankment					8	8						
Sideslope (_:1)		3.0									
(Height of Co	ver(m)	: 1.2)										
Guardrail (Y/N)			No									
Approach Roa	ad / Em	bankme	nt General Rat	ing	7	7						
						Upstre	am End					
Culvert Comp	onent				Last	Now	Explar	ation of	Condi	tion		
(Pipe # : 1, Sp	an Typ	e: Prima	ry Span)									
Direction					W		South	pipe.				
End Treatment Others, None)	(Concr	ete, Stee	il, STEEL									
Headwall					Х	Х						
Collar					Х	Х						

			linetro	am End
Culvert Component				Explanation of Condition
(Pipe # : 1, Span Type: Primary	v Span)	Luot	11011	Explanation of condition
Wingwalls	<i>y</i>	X	X	
(Shape:)				
Cutoff Wall		X	Х	
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		6	6	Well vegetated.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)			_	
Scour/Erosion		6	6	
Populara (V/N)	No			
Beavers (Y/N)	INO			
Upstream End General Rating		6	6	
		Dei	dero Cu	Street Barral
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN Sn:			
Barrel Last Accessible Date	06-May-2008		j. 1023	Only accessible 5m from u/s due to water.
Dairei Last Accessible Date	06-iviay-2006			Only accessible 5111 from 4/s due to water.
Special Features				
Special Feature		7	7	75 x 100 steel tubing.
(Type: VERT STEEL STRUTS)				
Special Feature				
(Type:)				
Roof		2	2	
Measured Rise (mm)	938			6-May-2008
Measured At Ring No.				
Sag (mm)	180			estimated
Percent Sag	16			
Sidewall		6	6	
Measured Span (mm)	1840			06-May-2008
Measured At Ring No.				
Deflection (mm)				est
Percent Deflection	2			
Floor		4	4	
Bulge (mm)	100			Random.
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	5	
Separation (mm)	90			
Longitudinal Seams		Х	X	
Total No. of Cracked Rings				1
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

		Bric	lge Cul	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1829	, Rise (mm): 1118, Type: FP)
Coating		4	4	Floor pitting rust.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy	1	6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	G.R. increased by 2 pts due to struts. GR carried fwd.
				eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL		1	
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		6	6	Well vegetated.
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	6	6	
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		W		N pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	

75557 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		5	5	Edge angle torn off bottom edge on South.
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection		6	6	Well vegetated.
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	5	
		Brid	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
	cation Code: MAIN, S			829, Rise (mm): 1118, Type: FP)
Barrel Last Accessible Date	19-Aug-2011			
Special Features				
Special Feature		7	7	75 x 100 steel tubing.
(Type: VERT STEEL STRUTS)				
Special Feature				
(Type:)				
Roof		3	2	
Measured Rise (mm)	760			Near c/l.
Measured At Ring No.				
Sag (mm)	258			
Percent Sag	23			
Sidewall		6	6	
Measured Span (mm)	1840			
Measured At Ring No.				
Deflection (mm)	10			
Percent Deflection	1			
Floor		4	4	
Bulge (mm)	100			near cl
Measured At Ring No.				Thou of
Abrasion (Y/N)	No			
Circumferential Seams		5	5	
Separation (mm)	90			
Longitudinal Seams		Х	Х	
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)				

		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm): 18	829, Rise (mm): 1118, Type: FP)
Coating		4	4	Floor pitting rust.
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		X	X	
(Type:)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	G.R. increased by 2 pts due to struts.
			ownstr	ream End
Culvert Component		1	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	larv Span)		11011	
Direction	, ,	E		
End Treatment (Concrete, Steel, Others, None)	STEEL	_		
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		X	Х	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection		6	6	Well vegetated.
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Downstream End General Rating			6	
		5	Structu	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	90 degree bends on upstream end. Drains ditch.
Bank Stability		9	8	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			

Structure Usage							
		Last	Now	Explanation of Condition			
Channel Bottom Degrading/Aggrading	NONE						
Beavers (Y/N)	No						
(Fish Compensation Measure 1 :	(Fish Compensation Measure 1 : NONE)						
(Fish Compensation Measure 2 : NONE)							
Channel General Rating			5				

75557 -1 Bridge Culvert

		Maintenance	Recommendations						
Inspector Recommendations	Year	Inspector Comments	Department	Department Comments					
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LININ	G								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/I (%)	Now) 44.4/4	4.4 Sufficiency Rating (La (%)	st/Now) 56.1/55.2	Est. Repl. Yr	2016 Maint.	Reqd. (Y/N)	No		
Special Inspect after each worsens. Next Inspection	high water even	nt, no need to shorten cycle until con	dition Department Comments						
Maintenance Reviewed By			Date		Estimated To	otal 0			
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
			Previous Assistant's Na	ame					
Previous Inspector's Name	Dave Lam		Flevious Assistant's INC	21110					
Previous Inspector's Name Next Inspection Date	Dave Lam 19-Nov-2014		Previous Inspection Da		3				
					3				