

Bridge Culvert Inspection			
Bridge File Number	06778 -1 Bridge Culvert	Form Type	CUL1
Year Built	1955	Lot No.	4
Bridge or Town Name	ORION	Inspector Name	Jon Davies
Located Over	TRIBUTARY TO IRRIGATION CK, 11.1.1.3, WATERCRS-ST	Inspector Class	BR CLS B
Located On	61:06 C1 24.683	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	28-Mar-2013
Legal Land Location	SW SEC 6 TWP 6 RGE 6 W4M	Data Entry By	Lauren Korte
Longitude, Latitude	-110:48:47, 49:26:09	Data Entry Date	08-Apr-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA24	Review Date	07-Apr-2013
Clear Roadway/Skew	7.3 /	Dept. Reviewer Name	Tim Davies
AADT/Year	160 / 2012 (A)	Dept. Review Date	22-Apr-2013
Road Classification	RAU-209-110	Follow-Up By	
Detour Length (km)	3		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	1829	1118	FP	14.6	68X13		ARCH
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments							
Telephone	West ditch.	Gas	Crossing 100 m south				
Power	3 wire East & 1 crosses 35m South.	Municipal					
Others	Water pipe west ROW	Problem (Y/N)	No				
Remarks							

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Intersection to South 40m.
Vertical Alignment		8	8	Patch over the pipe. ACP crack over pipe.
Roadway Width (m)	7.300			
Embankment		5	5	2:1 over pipe. 4:1 Approaches.
Sideslope (__:1)	2.0			
(Height of Cover(m) : 0.9)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction				East end.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	N	Not visible. PR 6
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		6	N	PR 6
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		6	N	PR 6
Beavers (Y/N)	No			
Upstream End General Rating		6	N	PR 6
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1829, Rise (mm): 1118, Type: FP)				
Barrel Last Accessible Date	21-Jan-2009			Barrel inaccessible due to high water.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	PR 4
Measured Rise (mm)	1035			
Measured At Ring No.	2			
Sag (mm)	83			
Percent Sag	7			
Sidewall		N	N	PR 5
Measured Span (mm)	1846			
Measured At Ring No.	2			
Deflection (mm)	17			
Percent Deflection				
Floor		N	N	PR 5
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	(Soil infiltration @ all seams - minor. Seams @ East two sections bent 100mm & 150mm.) 21- Jan -2009
Separation (mm)	100			
Longitudinal Seams		N	N	Rivettted CSP
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	N	(Superficial corrosion @ sidewall.) 21- Jan- 2009 PR 6
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			21- Jan -2009
Ponding (Y/N)	Yes			21- Jan -2009

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1829, Rise (mm): 1118, Type: FP)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	PR carried forward
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction				West end.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	N	PR 6
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		N	N	PR 6
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	N	PR 6
Beavers (Y/N)	No			
Downstream End General Rating		6	6	GR carried forward.
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Drainage ditch @ 90 deg entry.
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM Not visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				AGGRADING
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	53.4/52.4	Est. Repl. Yr	2015	Maint. Req. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Jon Davies		Previous Assistant's Name				
Next Inspection Date	28-Dec-2014		Previous Inspection Date	15-Jun-2011			
Inspection Cycle (Default) (months)	21						
Comment							