

Bridge Culvert Inspection				
Bridge File Number	01043 -2 Bridge Culvert		Form Type	CUL1
Year Built	2012		Lot No.	4
Bridge or Town Name	MORNINGSIDE		Inspector Name	Owen Salava
Located Over	WOLF CREEK, 5.56, WATERCRS-ST		Inspector Class	BR CLS A
Located On	604:02 C1 17.329		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	04-Feb-2013
Legal Land Location	SE SEC 3 TWP 42 RGE 26 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-113:39:34, 52:34:46		Data Entry Date	06-Mar-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA17		Review Date	13-Feb-2013
Clear Roadway/Skew	16 / -32 deg. (LHF)		Dept. Reviewer Name	Chris Black
AADT/Year	670 / 2011 (A)		Dept. Review Date	14-Mar-2013
Road Classification	RLU-208-100		Follow-Up By	
Detour Length (km)	2			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	3990	SP	59.74	152X51	3.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)				
Utility Attachments				
Telephone	Plowed in S r/w.		Gas	Gas line crossing 100m W, 20m N.
Power	S ditch		Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	HWY 2 access 150m W. Shallow sag curve; posted for 50km/h.
Vertical Alignment		8	8	
Roadway Width (m)	9.500			
Embankment		8	7	N side.
Sideslope (_ :1)	2.5			
(Height of Cover(m) : 5)				
Guardrail (Y/N)	Yes			A wire cable both sides.
Approach Road / Embankment General Rating		7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	N	Snow covered.
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		8	N	Buried

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			Est.
Above/Below (mm)	800			
Scour Protection		7	N	(Rock varies from 150-900mm. 13Sep2012) - Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		8	N	
Beavers (Y/N)	No			
Upstream End General Rating		7	8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3990, Type: SP)				
Barrel Last Accessible Date	04-Feb-2013			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		9	9	Unable to measure due to ice.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		9	9	Ice above mid-height; looks good.
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		9	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		9	9	
Separation (mm)	0			
Longitudinal Seams		9	9	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		9	9	Stained at waterline.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
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): , Rise (mm): 3990, Type: SP)				
Fish Passage Adequacy		6	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		9	9	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	N	Snow covered.
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		8	N	Buried
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			Est.
Above/Below (mm)	800			
Scour Protection		7	N	(Varies from 150-900mm. 13Sep2012) - Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		8	N	
Beavers (Y/N)	No			
Downstream End General Rating		7	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : Boulders)				10 CL3 clusters u/s; 4 d/s.
(Fish Compensation Measure 2 : Fish Pond)				
Channel General Rating		7	7	

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) (%)	100.0/100.0	Sufficiency Rating (Last/Now) (%)	87.5/96.5	Est. Repl. Yr	2072	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	Wade Nanninga		Previous Assistant's Name				
Next Inspection Date	04-May-2016		Previous Inspection Date	13-Sep-2012			
Inspection Cycle (Default) (months)	39						
Comment							