

Bridge Culvert Inspection				
Bridge File Number	79701 -1 Bridge Culvert		Form Type	CUL1
Year Built	1982		Lot No.	3
Bridge or Town Name	SEEBE		Inspector Name	Garry Roberts
Located Over	STONY CK, 2.13.56.1.1, WATERCRS-ST		Inspector Class	BR CLS A
Located On	68:04 C1 2.689		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	27-Aug-2012
Legal Land Location	NW SEC 12 TWP 24 RGE 8 W5M		Data Entry By	Lauren Korte
Longitude, Latitude	-114:59:53, 51:02:07		Data Entry Date	26-Sep-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Tom Carey
Contract Main. Area	CMA28		Review Date	31-Aug-2012
Clear Roadway/Skew	12.3 / -35 deg. (LHF)		Dept. Reviewer Name	Tim Davies
AADT/Year	310 / 2011 (A)		Dept. Review Date	02-Oct-2012
Road Classification	RAU-211.8-110		Follow-Up By	
Detour Length (km)	16			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	2317	2561	SPE	37.8	152X51	4.0	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone			Gas	
Power			Municipal	
Others			Problem (Y/N)	No
Remarks	None visible			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		4	4	On South curve - speed reduced to 55 km/hr grade rising to East.
Vertical Alignment		5	5	
Roadway Width (m)	12.300			
Embankment		6	6	4 Split posts @ NW and 1 damaged rail section. 1 Broken post and 2 split posts @ South end with damaged guardrail.
Sideslope (:1)	2.0			
(Height of Cover(m) : 1)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		4	4	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		N		North.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		7	7	
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		7	7	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	650			
Scour Protection		6	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2317, Rise (mm): 2561, Type: SPE)				
Barrel Last Accessible Date	27-Aug-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)	2561			
Measured At Ring No.	3			
Sag (mm)	0			
Percent Sag				
Sidewall		7	7	Minor dents caused by construction equip - in R4. Inward.
Measured Span (mm)	2303			
Measured At Ring No.	3			
Deflection (mm)	14			
Percent Deflection	1			
Floor		7	7	Minor.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		8	8	
Separation (mm)	0			
Longitudinal Seams		7	7	
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)	No			
Longitudinal Stagger (Y/N)	No			
Coating		6	6	Superficial @ U/S.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2317, Rise (mm): 2561, Type: SPE)				
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		South.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		7	7	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	Buried.
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		5	5	Filter Fabric exposed in channel bottom. Good Rock underneath.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Bends in channel both ends.
Bank Stability		5	5	Cut banks d/s starting 50m d/s.
HWM (m below Top of Culvert)	0.6			HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
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	2013	Replace 7 - 6" x 8" x 5' guardrail Posts @ South & North and 1 piece West-Beam @ South and North.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	63.3/63.2	Est. Repl. Yr	2035	Maint. Req. (Y/N)	Yes
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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	27-May-2014		Previous Inspection Date	05-Jan-2011			
Inspection Cycle (Default) (months)	21						
Comment							