

Bridge Inspection									
Bridge File Number	74508 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1955/1988				Lot No.	1			
Bridge or Town Name	BIG VALLEY				Inspector Name	Jason Saly			
Located Over	BIG VALLEY CREEK, 3.61, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	56:12 C1 15.844				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	14-Feb-2013			
Legal Land Location	NW SEC 31 TWP 35 RGE 19 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-112:43:10, 52:03:11				Data Entry Date	14-Mar-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA20				Review Date	26-Feb-2013			
Clear Roadway/Skew	8.2 /				Dept. Reviewer Name	Chris Black			
AADT/Year	1,350 / 2011 (A)				Dept. Review Date	28-Mar-2013			
Road Classification	RAU-209-110				Follow-Up By				
Detour Length (km)	56								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS225						----> Primary Span		

Posting Information									
Required Load Posting (t)	Single				Semi		Truck Train		
Posted Loading (t)	Single				Semi		Truck Train		
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks	Not required.								
Hazard Marker At Bridge (Y/N)	No								
Remarks	Not required.								
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone	West r/w.				Gas				
Power	3 wire 25m East of c/l, fence line.				Municipal				
Others					Problem (Y/N)		No		
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		8	8	Intersection 150m North of bridge, hill to South.					
Vertical Alignment		7	7						
Roadway Width (m)	8.000			Wide transverse cracks at ends of bridge.					
Approach Bump		7	7						
Guardrail (Y/N)		Yes							
Guardrail		7	7						
Length (m)	83.600			NW,SE 83.6m; SW 91.2m; NE 98.8m.					
Current Standard (Y/N)		Yes		Continuous through bridge.					
Termination Type		Turn Down							
Drainage		7	7						
Approach Road General Rating		7	7						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 1 Spans, Lengths(m): 6, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered along gutters.
Last	0	0	0	0	
Now	5.0	0.0	0.0	0.0	
Wearing Surface			7	7	No lateral connection problem observed at this time.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	Paved over.
Bump (Y/N)		No			
Deck Drainage			7	7	No deck drains.
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Voids open at all 4 corners. Grout in lift pockets deteriorating.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			4	4	Single layer. Missing 16 bolts @ splices. W rail offset past curb 250mm.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			8	7	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	8	0	0	0	
Now	0	0	0	0	
Girders			N	5	Typical diagonal crack on G8 @ S end. No change from previous mark. Curb lift pockets starting to deteriorate.
Last Complete Inspection Date		14-Feb-2013			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 8)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			5	5	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)				Plus 1 each end.		
(Extended Backwall Piles Spacing(mm) : 1800)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				6	6	
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
Backwalls/Breastwalls			N	5	1 piece damaged sheathing at NW corner. 1 plank bulging at NE - no problems.	
Greatest Height (m)		3.50				
Wingwalls			6	5	Minor plank damage at NW wingwall.	
(Total Number of Bearing Piles : 9:9)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	18	0	0	0		
Now	0	0	0	8		
Piles			N	3	Possible rot at/below waterline. A1P3 repaired with steel stub; same at A2P6. A1P9 banded. Several piles spongy at waterline - A1P1,2,4,9 & A2P7-9.	
Paint/Coating			X	X		
Abutment Stability			5	5		
Scour/Erosion			N	N	Ice/snow covered.	
Piers/Bents						
(Type :)						
(Total Number of Caps/Corbels :)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				X	X	
(Type :)						
(Depth(mm) :)						
(Width(mm) :)						
(Total Number of Bearing Piles :)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles			X	X		
Greatest Height (m)						
Bracing/Struts/Sheathing			7	7	Struts.	
Nose Plate			X	X		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		3	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				
(D/S Direction : W)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		N	N	(Shallow basin formed under bridge. Very little rock. 07Oct2009) - Snow/ice covered.
(Type :)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	GR was carried forward from 07Oct2009.

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Install 16 splice bolts.					
SEAL CURBS	2013	Grout lift pockets.					
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS	2013	Core piles, if not yet done.					
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Add sister piles, stub repair or cobra rods if rot found (as required).					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	57.3/50.8	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Replace bridge when HWY widened due to rot in piles or replace early if rot confirmed. 2 piles have been repaired; coring may have been done early.		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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	14-Nov-2014		Previous Inspection Date	10-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							