

Bridge Inspection									
Bridge File Number	01877 -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 17.604				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	14-Feb-2013			
Legal Land Location	NW SEC 6 TWP 36 RGE 19 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-112:43:09, 52:04:08				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)	3								
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 because of narrow roadway.								
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			7	7	Land access 10m NE.				
Vertical Alignment			9	9					
Roadway Width (m)	7.400								
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			7	7					
Length (m)	15.200								
Current Standard (Y/N)	Yes				NW, SE, SW 122m NE 15.2m. Type VI @ NE.				
Termination Type	Turn Down								
Drainage			7	N	Snow covered.				
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.
Last	0	0	0	0	
Now	40.0	0.0	0.0	0.0	
Wearing Surface			6	6	Asphalt cracked across roadway at both abuts. (3 GKC in asphalt. 10May2011) - Not visible due to snow/ice on road.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	Small bump at ends. Asphalt covered.
Bump (Y/N)		Yes			
Deck Drainage			7	N	No deck drains.
Drains Clogged (Y/N)					
Curbs/Median			4	4	All end girder voids are exposed. (Grout in lift pockets deteriorating. 10May2011).
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			4	4	Single layer; missing 16 splice bolts. W rail offset 250mm in front of curb face.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			8	3	First 2 posts from S along W curb, timber blocking broken.
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	8	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Girders			5	5	E girder has typical diagonal cracks, both ends. NE curb spall @ cap probably from installation. 3 GKC in ACP. Grout in lift pockets deteriorating. 10May2011). Rust stains from connectors along curb and 1st interior.
Last Complete Inspection Date		14-Feb-2013			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
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)						
(Extended Backwall Piles Spacing(mm) : 1500)						
(Total Number of Caps/Corbels : 3:3)				Subcap ends field cut.		
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			5	5		
Greatest Height (m)		2.00		Minor bulging btwn piles. Based on S backwall.		
Wingwalls			6	N		
(Total Number of Bearing Piles : 9:9)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	1		
Now	4		9	5		
Piles				3	2	
(A2P5 split - photo. 10May2011). Both piles with wire tieback appear rotten; other piles have similar cracks. S c/l pile starting to crack. All extension piles missing wire tiebacks. A1P2,5,6 & A2P2 wide cracks upto 18mm. Most of the N abut not visible due to snow drifts; rating based on AT investigation in Feb 2011.						
Paint/Coating			X	X		
Abutment Stability			5	3		
Scour/Erosion			7	N		
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			X	X		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		3	2	Based on AT's pile investigation.
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	N	Snow covered.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	Shallow basin under bridge.
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	GR carried forward from 10May2011.

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Install 16 splice bolts to flexbeam. Upgrade post retrofit to bridgerail.					
SEAL CURBS	2013	Restore lift pockets; seal end voids.					
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Assess repair options; consider new lines of piles btwn existing.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/38.9	Sufficiency Rating (Last/Now) (%)	57.3/55.4	Est. Repl. Yr	2016	Maint. Reqd. (Y/N)	Yes
Special Comments for Next Inspection	Hold-off on minor repairs & replace bridge. Monitor pile condition. Replace bridge with widening. LRA sent to Donald Saunders on 27Feb2013.		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							