Bridge Inspection

Bridge File Number	73631 -1 Bridge	Form Type	PCS
Year Built/Year Supstr	1974/1974	Lot No.	4
		Inspector Name	Jason Rusu
Bridge or Town Name	WILD HORSE	Inspector Class	BR CLS A
Located Over	TRIBUTARY TO SAGE CREEK, 29.6, WATERCRS-ST	Assistant Name	
		Assistant Class	
Located On	41:02 C1 13.975	Inspection Date	15-Jan-2012
Water Body Cl./Year		Data Entry By	Alyssa Boynton
Navigabil. Cl./Year		Data Entry Date	01-Mar-2012
Legal Land Location	NE SEC 7 TWP 2 RGE 2 W4M	Reviewer Name	Garry Roberts
Longitude, Latitude	-110:15:07, 49:06:44	Review Date	24-Jan-2012
Road Authority	Alberta Transportation (AIT)	Dept. Reviewer Name	Tim Davies
Contract Main. Area	CMA23	Dept. Review Date	11-Mar-2012
Clear Roadway/Skew	11 /	Follow-Up By	
AADT/Year	150 / 2010 (A)		
Road Classification	RLU-209G-90		
Detour Length (km)	27		

Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	---> On Critical Spans --->Critical Member
Design Loading:		HS25					---> 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)	Yes
Remarks	
Other Sign Types	

Utilities (Located at)

Utility Attachments			
Telephone	West ditch.	Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road

		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	In sag curve, good sight distance
Vertical Alignment		7	7	
Roadway Width (m)	9.200			NE approach road void in ACP 70mm deep, 150mm wide
Approach Bump		7	4	
Guardrail (Y/N)	Yes			Not thriebeam
Guardrail		7	7	
Length (m)	12.000			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		7	7	
Approach Road General Rating		**7**	**7**	

Superstructure					
Bridge Component			**Last**	**Now**	**Explanation of Condition**
(Primary Span : **VH, 3 Spans, Lengths(m): 6.1-6.1-6.1, A-Ident Number:**)					
Special Features					
Special Feature				X	
(Type :)					
Special Feature				X	
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			4	4	Cold patch/seal joint cracks @ both ends
(Material Type : **ACP**)					
(Thickness(mm) : **50**)					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			8	7	
Deck Joints			N	N	ANGLES @ ENDS OF GIRDERS
Bump (Y/N)	Yes				
Deck Drainage			7	7	
Drains Clogged (Y/N)	No				
Curbs/Median			6	6	
(Curb Type : **Standard**)					
Scaling (Percent Area)	1				
Bridge Rail			8	7	2 LAYER
(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	0	0	0	0	
Now	0	0	0	0	
Girders			4	4	Wide Crack in sound concrete both legs S1G12, S1G8, S1G6 2 GIRDRS SPALLS @ WEBS @ LOW COVER REBAR-1 @ EA END SPAN in one leg Wide cracks in sound concrete 1 leg S1G7, S1G9, S1G13, S1G2, S1G5, S3G4, S3G11
Last Complete Inspection Date	15-Jan-2012				
Cracking (Y/N)	Yes				
Spalling (Percent Area)	2				
Lift or Connector Pocket Grouted (Y/N)	Yes				
(Number Of Girders : **39**)					
Span Alignment Problems					
Vertical (Y/N)	Yes				West Side North Span - minor
Horizontal (Y/N)	No				
Superstructure General Rating			**4**	**4**	

Substructure

Bridge Component		Last	Now	Explanation of Condition
Abutments				
(Extended Backwall Piles (Y/N) : **N**)				
(Extended Backwall Piles Spacing(mm) :)				
(Total Number of Caps/Corbels : **1:1**)				
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		7	7	
(Type : **STEEL**)				
(Depth(mm) : **309**)				
(Width(mm) : **309**)				
Backwalls/Breastwalls		7	7	
Greatest Height (m)	1.40			
Wingwalls		5	5	
(Total Number of Bearing Piles : **9:9**)				
Piles Detail Ratings				
	N (count)	1 (count)	2 (count)	3 (count)
Last	18	0	0	0
Now	18	0	0	0
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		6	6	
Scour/Erosion		7	7	
Piers/Bents				
(Type : **PIER-COLUMN**)				Some checks-ALL BANDED.
(Total Number of Caps/Corbels : **1:1**)				
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		7	7	
(Type : **STEEL**)				
(Depth(mm) : **309**)				
(Width(mm) : **309**)				
(Total Number of Bearing Piles : **9:9**)				
Piles Detail Ratings				
	N (count)	1 (count)	2 (count)	3 (count)
Last	0	0	0	0
Now	0	0	0	0
Pier Shaft/Piles		5	5	
Greatest Height (m)	2.60			
Bracing/Struts/Sheathing		7	6	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				

Substructure				
Bridge Component		**Last**	**Now**	**Explanation of Condition**
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		**5**	**5**	

Structure Usage				
		Last	**Now**	**Explanation of Condition**
Channel				
(U/S Direction : **W**)				DRY STREAMBED
(D/S Direction : **E**)				
Alignment		7	7	SOME SPARSE CLASS 2 @ TOE.
Bank Stability		7	7	
HWM (m below Top of Curb)	3.0			No visible HWM.
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : **NATURAL; NATURAL**)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : **NONE**)				
(Fish Compensation Measure 2 : **NONE**)				
Channel General Rating		**7**	**7**	

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL						
SEAL CURBS						
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						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	**50.0/50.0**	**Sufficiency Rating (Last/Now) (%)**	**65.0/64.9**	Est. Repl. Yr	2023	Maint. Reqd. (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	Jason Rusu	Previous Assistant's Name	
Next Inspection Date	15-Oct-2013	Previous Inspection Date	06-Aug-2010
Inspection Cycle (Default) (months)	21		
Comment			