

Bridge Inspection									
Bridge File Number	09341 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1966/1966				Lot No.	2			
Bridge or Town Name	VALHALLA GEN				Inspector Name	Russel Vanderschaaf			
Located Over	BEAR RIVER, 8.10.58.18.2, WATERCRS-ST				Inspector Class	BR CLS B			
Located On	723:02 C1 23.576				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	11-May-2010			
Legal Land Location	NW SEC 7 TWP 74 RGE 9 W6M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-119:23:05, 55:23:60				Data Entry Date	21-Jun-2010			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer			
Contract Main. Area	CMA05				Review Date	07-Jun-2010			
Clear Roadway/Skew	8.2 / 15 deg. (RHF)				Dept. Reviewer Name	Steve Pasquan			
AADT/Year	600 / 2009 (A)				Dept. Review Date	10-Sep-2010			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 65 GIRDER	---> On Critical Spans --->Critical Member		
Design Loading:	HS20						---> 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									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	Northbound max 50, Southbound max. 100								
Utilities (Located at)									
Utility Attachments									
Telephone	W. r/w				Gas				
Power	E. r/w - 3 wire				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Major intersection 200m N.				
Vertical Alignment			8	8					
Roadway Width (m)	9.800								
Approach Bump			7	7					
Guardrail (Y/N)	Yes				Damage to all turn down ends and missing bolts on all turn down ends.-photo				
Guardrail			N	4					
Length (m)	11.400								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN ENDS								
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 3 Spans, Lengths(m): 6.1-8.5-6.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface			4	4	1% spalled worse in span 2, 3-200x150x150mm spalls one with exposed rebar- photo. Medium longitudinal cracks between girders, random transverse cracks.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			4	4	Pot holes
Deck Joints			N	N	
Bump (Y/N)		No			
Deck Drainage			4	6	
Drains Clogged (Y/N)		No			
Curbs/Median			N	6	
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			7	7	Double layer.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			N	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last				4	
Now					
Girders			4	4	9/30 girders are cracking. S2,G8,S2,G2,G4 has wide cracking and spalls in the AZ of both legs - photo. Span 2 viewed from N and S embnkmnts. S3G10 wide crack 2 legs in AZ North end, concrete sound.-photo
Last Complete Inspection Date		31-Jan-2007			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 30)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			4	4	

Substructure						
Bridge Component				Last	Now	Explanation of Condition
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1500)						
NORTH BACKWALL & PILES NOT VISIBLE						
A2 east cap rotated 70mm						
(Total Number of Caps/Corbels : 5:5)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				5	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
Backwalls/Breastwalls				7	7	
Greatest Height (m)		1.60				
Wingwalls				N	4	
Missing tintop on SW wingwall pile.-photo						
(Total Number of Bearing Piles : 6:6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Piles				6	6	
Paint/Coating				8	8	
Abutment Stability				7	6	
Scour/Erosion				8	8	
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 8:8)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				5	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 350)						
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles				4	5	
Greatest Height (m)		2.70				
Pier 1, pile 1 encased in metal pipe and grouted inside. P1 piles 4 and 7 have vertical cracks and are banded.						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Bracing/Struts/Sheathing		7	7	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		8	8	
Debris (Y/N)	No			
Substructure General Rating		4	5	

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		8	8	
(Type : RIP RAP)				
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	2010	Fix spalls					
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	2010	Fix turndown ends.					
OTHER ACTION	2010	Repair tintop					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/50.0	Sufficiency Rating (Last/Now) (%)	58.3/60.4	Est. Repl. Yr	2013	Maint. Req'd. (Y/N)	Yes
Special Comments for Next Inspection	Monitor cracking on girders.		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	Colin Roy		Previous Assistant's Name				
Next Inspection Date	11-Aug-2013		Previous Inspection Date	12-Apr-2007			
Inspection Cycle (Default) (months)	39						
Comment							