Bridge Inspection

Bridge File Number	80644 E-2 Bridge	Form Type	PSR
Year Built/Year Supstr	1992/1992	Lot No.	4
		Inspector Name	Jason Saly
Bridge or Town Name	VEGREVILLE	Inspector Class	BR CLS A
Located Over	VERMILION RIVER, 6.5, WATERCRS-ST	Assistant Name	
Located On	16:24 R1 23.205	Assistant Class	
Water Body Cl./Year		Inspection Date	19-Jul-2012
Navigabil. Cl./Year		Data Entry By	Marcia Chavez
Legal Land Location	NE SEC 7 TWP 52 RGE 14 W4M	Data Entry Date	10-Aug-2012
Longitude, Latitude	-112:02:56, 53:28:36	Reviewer Name	John O'Brien
Road Authority	Alberta Transportation (AIT)	Review Date	28-Jul-2012
Contract Main. Area	CMA14	Dept. Reviewer Name	Andrew Smikles
Clear Roadway/Skew	12.5 / 20 deg. (RHF)	Dept. Review Date	13-Aug-2012
AADT/Year	5,740 / 2011 (A)	Follow-Up By	
Road Classification	RAD-412.4-120		
Detour Length (km)	1		

Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	---> On Critical Spans --->Critical Member
Design Loading:		CS750					---> Primary Span

Posting Information

Required Load Posting (t)			Single		Semi		Truck Train	
Posted Loading (t)			Single		Semi		Truck Train	
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No
Posted:	Lane	WB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)	
Remarks								

Hazard Marker At Bridge (Y/N)	Yes
Remarks	
Other Sign Types	

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power	10 wire OH 75 m S. of EBL c.l	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road

		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	
Vertical Alignment		9	8	
Roadway Width (m)	13.700			Pothole starting to form at E abut in S lane.
Approach Bump		6	6	
Guardrail (Y/N)	Yes			Not thrie beam.
Guardrail		6	6	
Length (m)	65.000			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN ENDS			
Drainage		8	7	
Approach Road General Rating		**8**	**8**	

Superstructure

Bridge Component		Last	Now	Explanation of Condition
(Primary Span : **DBC, 1 Spans, Lengths(m): 40, A-Ident Number:**)				
Special Features				
Special Feature			X	
(Type :)				
Special Feature			X	
(Type :)				
Wearing Surface/Deck Top Detail Ratings				
	N (%) / 1 (%) / 2 (%) / 3 (%)			
Last	60 / 0 / 0 / 0			
Now	0.0 / 0.0 / 0.0 / 0.0			
Wearing Surface		5	4	There are transv. & random cracks reflecting through the ACP & seal coat. ACP deterioration along the gutters.
(Material Type : **ACP - CONVENTIONAL CHIP SEAL COAT**)				
(Thickness(mm) : **50**)				
Lateral Connection Problem (Y/N)	No			
Deck Top		N	N	
Deck Rideability		7	7	
Deck Joints		8	7	Fixed Expansion
Temperature (deg. C)				
(Expansion Type : **GLAND (WABO-MAUER, TRANSFLEX, ETC)**)				
(Fixed Type : **GLAND (WABO-MAUER, TRANSFLEX, ETC)**)				
Gap Size (mm)	Gap Location			
74	W. abut			
67	E. abut			
Deck Drainage		5	5	
Drains Clogged (Y/N)	No			
Curbs/Median		6	5	Vertical flex & transv. cracks every est 1.0m on curbs. The accident damage repair to the curb was left uncoated at S curb at 3rd post from W.
(Curb Type : **Standard**)				
Scaling (Percent Area)	0			
Bridge Rail		8	8	
(Type : **GALVANIZED STEEL BRIDGE TUBE**)				
Bridge Rail Posts		8	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	0 / 0 / 0 / 0			
Now	0 / 0 / 0 / 0			
Girders		5	5	Coating on N. fascia is approximately 3% peeled. Typical hairline cracks in block ends.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : **11**)				

Superstructure				
Bridge Component		**Last**	**Now**	**Explanation of Condition**
(Primary Span : **DBC, 1 Spans, Lengths(m): 40, A-Ident Number:**)				
Diaphragms/Cross Frame		8	8	
Bearings		8	8	E abut W abut
Temperature (deg. C)				
(Expansion Type : **REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL**)				
(Fixed Type : **REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL**)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	
Stains (Percent Area)	0			
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				
Bearing Seats/Caps		8	7	
(Type : **CONCRETE**)				
Backwalls/Breastwalls		8	8	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		8	8	
Abutment Stability		8	8	
Scour/Erosion		7	7	
Piers/Bents				
(Type :)				
Bearing Seats/Caps		X	X	
(Type :)				
(Total Number of Bearing Piles :)				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
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		**8**	**7**	

Structure Usage				
		Last	**Now**	**Explanation of Condition**
Channel				
(U/S Direction : **S**)				
(D/S Direction : **N**)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible. 2 beaver dams S of EB bridge.
Drift (Y/N)	Yes			
Slope Protection		8	7	Well vegetated.
(Type : **RIP RAP; RIP RAP**)				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(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						
GALVANIZE/PAINT BRIDGE RAIL						
SEAL CURBS						
PATCH DECK						
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS						
RESET/ PAINT BEARINGS						
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	**72.2/66.7**	**Sufficiency Rating (Last/Now) (%)**	**66.1/63.9**	Est. Repl. Yr	2044	Maint. Reqd. (Y/N)	No

Special Comments for Next Inspection	WB structure to be considered for ACP replacement maybe cost effective to replace ACP on both structures.	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	19-Apr-2014	Previous Inspection Date	16-Dec-2010
Inspection Cycle (Default) (months)	21		
Comment			