

Bridge Inspection									
Bridge File Number	85090 E-1 Bridge				Form Type	PSR			
Year Built/Year Supstr	2011/2011				Lot No.	2			
Bridge or Town Name	Anthony Henday and 142 St.				Inspector Name	Randy Bredo			
Located Over	CNR				Inspector Class	BR CLS A			
Located On	216:08 R1 9.285				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	15-Apr-2012			
Legal Land Location	SW SEC 1 TWP 54 RGE 25 W4M				Data Entry By	Jill Potts			
Longitude, Latitude	-113:33:57, 53:37:57				Data Entry Date	27-Apr-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Dave Lam			
Contract Main. Area	UNDEFINED CMA				Review Date	22-Apr-2012			
Clear Roadway/Skew	12.9 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year					Dept. Review Date	12-Jun-2012			
Road Classification					Follow-Up By				
Detour Length (km)	1								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	CL800					----> Primary Span			

Posting Information											
Required Vert. Clearance Posting (m)											
Posted Vertical Clearance (Y/N)					Yes						
Posted:	Lane	NB	On Bridge (m)	8.1	In Advance (Y/N)	No	Lane	SB	On Bridge (m)	In Advance (Y/N)	No
Remarks	VC sign for SB located on BF 85090W-2. Advance VC sign required.										
Required Load Posting (t)					Single		Semi		Truck Train		
Posted Loading (t)					Single		Semi		Truck Train		
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No			
Posted:	Lane	EB	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					Gas				
Power	Cable strung along curb.				Municipal				
Others	Light standards.				Problem (Y/N)	Yes			
Remarks	Light standards not grouted.								

Approach Road									
					<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>		
Horizontal Alignment						7			
Vertical Alignment						7			
Roadway Width (m)		15.000							
Approach Bump						8			
Guardrail (Y/N)		Yes							
Guardrail						8			
Length (m)		83.000							
Current Standard (Y/N)		Yes							
Termination Type		Attenuation							
Drainage						3	Final grading required at all 4 corners.		
<b>Approach Road General Rating</b>						<b>7</b>			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
<b>(Primary Span : NU, 2 Spans, Lengths(m): 49-49, A-Ident Number: )</b>				
<b>Special Features</b>				
Special Feature			X	
(Type : )				
Special Feature			X	
(Type : )				
<b>Wearing Surface/Deck Top Detail Ratings</b>				
	N (%)	1 (%)	2 (%)	3 (%)
<b>Last</b>				
<b>Now</b>				
Wearing Surface			8	Type H2 with waterproofing system.
(Material Type : <b>ACP</b> )				
(Thickness(mm) : <b>80</b> )				
Lateral Connection Problem (Y/N)	No			
Deck Top			N	
Deck Rideability			8	
Deck Joints			X	Integral abutments.
Temperature (deg. C)	0			
(Expansion Type : )				
(Fixed Type : )				
Gap Size (mm)	Gap Location			
Deck Drainage			3	No drains. Ponded 25mm deep 5 1/2 post spacings from SE.
Drains Clogged (Y/N)	No			
Curbs/Median			8	
(Curb Type : <b>SINGLE SLOPE CONCRETE BARRIER</b> )				
Scaling (Percent Area)	0			
Bridge Rail			3	Approx. 50% of rail to post bolts and splice bolts are loose.
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )				
Bridge Rail Posts			8	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )				
Bridge Rail/Posts Coating			8	
(Type : <b>GALVANIZED</b> )				
Sidewalk			X	
<b>Girder Detail Ratings</b>				
	N (count)	1 (count)	2 (count)	3 (count)
<b>Last</b>				
<b>Now</b>				
Girders			8	Girders bowed up to 50mm on bottom flange - ok.
Cracking (Y/N)	No			
Spalling (Percent Area)	0			
<b>(Number Of Girders : 5)</b>				

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>NU, 2 Spans, Lengths(m): 49-49, A-Ident Number: )</b>				
Diaphragms/Cross Frame			9	
Bearings			9	Bearings are used during construction only, abutment & piers are integral.
Temperature (deg. C)	0			
(Expansion Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )				
(Fixed Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside			9	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>			<b>8</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps			9	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls			9	
Wingwalls			9	
Piles			N	
Paint/Coating			3	Pigmented sealer not finished yet.
Abutment Stability			9	
Scour/Erosion			X	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps			9	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>24</b> )				Buried.
Pier Shaft/Piles			9	
Bracing/Struts/Sheathing			X	
Nose Plate			X	
Paint/Coating			3	Has not been coated yet. Tan.
(Colour Description : )				
(Colour Code : )				
Pier Stability			9	
Scour			X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>			<b>9</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment			7	
Traffic Safety Features			8	
Type	Lighting			
Slope Protection			7	Gap at SW is 25mm, NW is tight and both SE and NE have 20mm gaps.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability			9	
Drainage			3	Water ponded around pier. Grading incomplete.
<b>Grade Separation General Rating</b>			<b>7</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Tighten rail bolts as per S-1642-00 rev4 or IFC dwg based on dwg heararchy.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2012	Finish with pigmented sealer.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Finish all final grading at all 4 corners.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Seal gap between top of concrete slope protection and both abutments.					
OTHER ACTION	2012	Drill hole to get rid of ponding (glue in drain) or fix ACP dip.					
OTHER ACTION	2012	Grout under light standards.					
OTHER ACTION	2012	Complete final grading around pier.					
OTHER ACTION	2012	Install advance vertical clearance signs.					
OTHER ACTION	2012	Put electrical inside curbs.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>/94.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>/73.1</b>	Est. Repl. Yr	2087	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor concrete slope protection for sliding.		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			Previous Assistant's Name				
Next Inspection Date	15-Jan-2014		Previous Inspection Date				
Inspection Cycle (Default) (months)	21						

Comment	
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