

Bridge Inspection										
Bridge File Number	85021 E1-1 Bridge					Form Type	PSR			
Year Built/Year Supstr	2006/2006					Lot No.	3			
Bridge or Town Name	ANTHONY HENDAY EASTBOUND OVER CONNECTOR TRELLIS STRUCTURE					Inspector Name	Kris Bosters			
						Inspector Class	BR CLS A			
Located Over	RAMP 2423-2 B					Assistant Name				
Located On	216:06 L1 0.316					Assistant Class				
Water Body Cl./Year						Inspection Date	20-Feb-2013			
Navigabil. Cl./Year						Data Entry By	Theresa Lacusta			
Legal Land Location	NE SEC 29 TWP 51 RGE 24 W4M					Data Entry Date	11-Mar-2013			
Longitude, Latitude	-113:29:42, 53:26:12					Reviewer Name	Eric Carcoux			
Road Authority	Alberta Transportation (AIT)					Review Date	10-Mar-2013			
Contract Main. Area	ANTHONY HENDAY DRIVE					Dept. Reviewer Name	Brent Herrick			
Clear Roadway/Skew	12.9 /					Dept. Review Date	13-Mar-2013			
AADT/Year	51,020 / 2011 (A)					Follow-Up By				
Road Classification	RFD-412.4-110									
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)					No					
Posted:	Lane	WB	On Bridge (m)	5.4	In Advance (Y/N)	Yes	Lane	EB	On Bridge (m)	In Advance (Y/N)
Remarks										
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										
Not required.										
Hazard Marker At Bridge (Y/N)					Yes					
Remarks										
Other Sign Types										

Utilities (Located at)									
Utility Attachments									
Telephone						Gas			
Power	Street lighting.					Municipal			
Others						Problem (Y/N)	No		
Remarks									
Control box @ NE knocked over.									

Approach Road									
				Last	Now	Explanation of Condition			
Horizontal Alignment				8	8	Wide crack in ACP at approaches.-photo			
Vertical Alignment				9	9				
Roadway Width (m)				12.900		Partially snow covered.			
Approach Bump				8	5				
Guardrail (Y/N)				Yes		Erosion gullies @ SW up to 200mm deep - photo.-15-Apr-2011 Snow covered			
Guardrail				8	8				
Length (m)				57.000					
Current Standard (Y/N)				No					
Termination Type				Turned Down					
Drainage				4	N				
Approach Road General Rating				8	8				

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : TSS, 1 Spans, Lengths(m): 39, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow along gutters/curb.
Last					
Now	5.0				
Wearing Surface			8	7	Random transverse and longitudinal cracks sealed.
(Material Type : ACP)					
(Thickness(mm) : 90)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			X	X	
Temperature (deg. C)		-7			
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
Deck Drainage			8	8	
Drains Clogged (Y/N)		No			
Curbs/Median			7	4	Narrow vertical shrinkage cracks, typical. Spall repairs at SE parapet have failed. - photo Wide horizontal crack with staining at SW.
(Curb Type : SINGLE SLOPE CONCRETE BARRIER)					
Scaling (Percent Area)		0			
Bridge Rail			X	X	
(Type :)					
Bridge Rail Posts			X	X	
(Type :)					
Bridge Rail/Posts Coating			X	X	
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	BF 85021E1 and BF 85021W3 are attached to each other. The western 10 girders/beams are being rated for 85021.
Last					
Now					
Girders			8	4	Girder 9 & 10 has hairline cracking. Most girders have rust stains from formwork.
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
(Number Of Girders : 10)					
Diaphragms/Cross Frame			X	X	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : TSS, 1 Spans, Lengths(m): 39, A-Ident Number:)				
Bearings		8	8	
Temperature (deg. C)	-5			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
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		8	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	Narrow map cracking.
Wingwalls		8	8	
Piles		N	N	
Paint/Coating		8	4	Less than 2% peeling on wingwalls and backwalls.
Abutment Stability		8	8	
Scour/Erosion		8	8	
Piers/Bents				
(Type :)				
Bearing Seats/Caps		8	6	Supports for trellis beams rated as piers. Narrow map cracking.
(Type :)				
(Total Number of Bearing Piles :)				
Pier Shaft/Piles		N	N	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		8	8	Cream.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		8	8	
Debris (Y/N)	No			
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	On curve.

Structure Usage				
		Last	Now	Explanation of Condition
Traffic Safety Features		8	8	Guardrail on East side.
Type	Lighting			
Slope Protection		8	6	Bark mulch. Concrete retaining wall on East side, narrow vertical cracks.
(Type : CONCRETE; CONCRETE)				
Bank Stability		4	4	Slope settled up to 200mm @ SE & NW.
Drainage		8	8	
Grade Separation General Rating		4	4	

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	2013	Seal cracks in approach ACP.					
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	2013	Patch spall at SE parapet.					
OTHER ACTION	2013	Repair erosion along SW, if not already done.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	88.9/66.7	Sufficiency Rating (Last/Now) (%)	64.7/50.4	Est. Repl. Yr	2080	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Some maintenance items are also common to BF 85021 W3-6 as they share a common substructure.		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	Arnold Assenheimer		Previous Assistant's Name	Wade Nanninga			
Next Inspection Date	20-Nov-2014		Previous Inspection Date	15-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							