

Bridge Inspection										
Bridge File Number	77254 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1974/1974				Lot No.	2				
Bridge or Town Name	STONY PLAIN				Inspector Name	Kris Bosters				
Located Over	16A:14 R1 11.809;16A:14 L1 11.279				Inspector Class	BR CLS A				
Located On	779:02 R1 9.668;779:02 L1 9.669				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	18-Oct-2012				
Legal Land Location	NW SEC 36 TWP 52 RGE 28 W4M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-114:00:07, 53:32:27				Data Entry Date	23-Oct-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA11				Review Date	22-Oct-2012				
Clear Roadway/Skew	15.2 /				Dept. Reviewer Name	Brent Herrick				
AADT/Year	15,420 / 2011 (A)				Dept. Review Date	13-Nov-2012				
Road Classification	RAU-213.4-110				Follow-Up By					
Detour Length (km)	8									
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 Vert. Clearance Posting (m)			UNDER: 16A L1 5.3m, 16A R1 5.3m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	EB	On Bridge (m)	In Advance (Y/N)	No	Lane	WB	On Bridge (m)	5.3	In Advance (Y/N)	Yes	
Remarks		Not in EBL. No vertical clearance sign mounted on S3G10, Hwy 16A WBL off ramp. Should be posted for 5.2m.										
Required Load Posting (t)			Single			Semi			Truck Train			
Posted Loading (t)			Single			Semi			Truck Train			
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Posted:	Lane	NB	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		At NW & SE only.										
Other Sign Types		Information, Warning, Speed										

Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power	3 wires NE r/w.				Municipal					
Others					Problem (Y/N)	No				
Remarks		Light poles on piers, G/S and on interchange ramps. Minor pitting in splash zone.								

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Typical grade separation.
Vertical Alignment		8	8	
Roadway Width (m)		15.500		
Approach Bump		7	5	2mx0.3m section of approach slab broken at S end of SBL.-photo Pothole forming in ACP at edge of NW approach slab - photo. ACP is cracked & ravelling, potholes N end SBL.-photo
Guardrail (Y/N)		Yes		
Guardrail		5	4	Not standard post spacing. 1 post missing NE-photo
Length (m)		34.200		
Current Standard (Y/N)		No		
Termination Type		Turned Down		
Drainage		3	3	All concrete drain troughs have broken - photo. Catch basin @ NE has been covered with asphalt. Asphalt at SE falling apart @ basin. Wheel trap @ SE corner - photo. Drainage undermining NE approach.-photo

Approach Road					
			Last	Now	Explanation of Condition
Approach Road General Rating			3	3	
Superstructure					
Bridge Component			Last	Now	Explanation of Condition
(Primary Span : VF, 4 Spans, Lengths(m): 13.7-35.1-35.1-13.7, A-Ident Number:)					
Special Features					
Special Feature			6	6	
(Type : EXT LATER POST TENS)					
Special Feature				X	
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
		N (%)	1 (%)	2 (%)	3 (%)
Last					
Now					
Wearing Surface			4	4	FRSF O/L. Two intermittent longitudinal cracks down center of both lanes. Wearing surface spalls adjacent to joints - photo.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		Yes			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			3	3	Gland has two 1.0 m rips (SBL) over pier 1. All pier joints leak at centerline. There is dirt along the pier joints. Pier joints filled with koch oil/tar. Plumbing at abutments rusted/failed. Joints have leaked in past, no sign of recent leakage.-photos 1/2 of baffle angle missing at P3 joint NBL. Missing coverplate at curb.-photo Curb broken and coverplate bent at P2 W side.-photo
Temperature (deg. C)		5			
(Expansion Type : FINGER PLATES;GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
70		S. abut			
15		S. pier			
15		C. pier			
20		N. pier			
75		N. abut			
Deck Drainage			3	3	Joint and plumbing at abutment joints failed with water damage such as delamination, staining & erosion at abutments the result.-photo
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Rebar exposed with inadequate cover. Spalling at random locations. Medium transverse cracks 1m o/c E curb.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			7	7	Several AB's have insufficient threads. Dirty.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			4	4	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
		N (count)	1 (count)	2 (count)	3 (count)
Last					10
Now					11
East leg of G6 on span 1 at P1 has a vertical crack with rust stains extending from connector bolt.-photo					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VF, 4 Spans, Lengths(m): 13.7-35.1-35.1-13.7, A-Ident Number:)					
Girders		3	3	Most exterior girders have wide vertical cracks in ends. HLD over all lanes. Worst is EBL, West curb. Low cover on South span West ext girder creating delam & rusting rebar. Spot rust stain on S2G3. Minor spall on leg of S2G2 near P2.	
Cracking (Y/N)	Yes				
Spalling (Percent Area)	1				
(Number Of Girders : 40)					
Diaphragms/Cross Frame		4	4	Cracked spalled bottom in S1G6 over P1, S2G6 over P2 & S3G6 over P3.	
Bearings		6	6	Minor distortion. Pier bearings inspected from ground/head slopes, no issues apparent.	
Temperature (deg. C)	4				
(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		4	4	Minor staining around weep tubes. Stains are old. Spall around deck drain @ P2 West side - photo. Numerous delams around weep tubes @ S4G10 - photo. 300mm dia. spall S end S1G1.-photo	
Stains (Percent Area)	2				
Span Alignment Problems					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
Superstructure General Rating		3	3		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
Bearing Seats/Caps		6	6		
(Type : CONCRETE)					
Backwalls/Breastwalls		5	5		
Wingwalls		3	3	Forms still in place @ SW corner - photo. Spalling & wide cracks @ SE & SW -photo. Wide crack @ NE - photo. Upper portions of wingwalls cast to look like girders have heavy scaling & spalling.	
Piles		N	N		
Paint/Coating		7	7		
Abutment Stability		7	7		
Scour/Erosion		5	5		
Piers/Bents					
(Type : PIER-COLUMN)				Several delam on pier 1 on South side. Delam crack on pier 3, North side - photo. Delam under G3 @ P2. Medium crack under G7 @ P2. Delam under G6 @ P3.	
Bearing Seats/Caps		4	4		
(Type : CONCRETE)					
(Total Number of Bearing Piles : 5:5:5)					
Pier Shaft/Piles		7	7		
Bracing/Struts/Sheathing		X	X		
Nose Plate		X	X		
Paint/Coating		5	5	Biege.	
(Colour Description :)					
(Colour Code :)					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		X	X	(Water ponding around pier piles. 05/Mar/2007)
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		9	9	
Traffic Safety Features		4	4	Light on North side of P1 removed, wire exposed.
Type	Guardrail, Lighting			
Slope Protection (Type : NATURAL; NATURAL)		4	4	Slope has settled 200mm-300mm @ top of slope on both abutments.
Bank Stability		8	8	
Drainage		4	4	Water draining under South abutment seat creating void.
Grade Separation General Rating		4	4	

On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Shane Hall	Previous Assistant's Name	
Next Inspection Date	18-Jul-2014	Previous Inspection Date	06-Oct-2010
Inspection Cycle (Default) (months)	21		
Comment			