								Bridge	Inspe	ction							
Bridge File Num	ber	77254 -1 Bridge							Form Type			PSR	PSR				
Year Built/Year		1974/1974						Lot	Lot No.			2	2				
Supstr									_ Ins	Inspector Name			Kris Bosters	Kris Bosters			
Bridge or Town Name STONY PL			PLAIN					Ins	Inspector Class			BR CLS A					
Located Over 16A:14 R1			1 11.809;16A:14 L1 11.279					Ass	Assistant Name								
Located On 779:02 R1			1 9.668;7	79:02 L	1 9.66	9		Ass	Assistant Class								
Water Body CI./	Year								Ins	Inspection Date			18-Oct-2012				
Navigabil. Cl./Ye	ear									Data Entry By			Theresa Lac	usta			
Legal Land Loca	ation	NW	/ SEC	36 TWP 52 RGE 28 W4M					Data Entry Date			23-Oct-2012					
Longitude, Latitu	Ide	-11	4:00:0	07, 53:32:27						Reviewer Name			Eric Carcoux				
Road Authority		Alb	erta T	ransporta	ation (Al	T)			Re	view Da	ate		22-Oct-2012				
Contract Main. A	rea	СМ	A11						– Dei	ot. Rev	iewe	er Nam	e Brent Herric				
Clear Roadway/	Skew	15.	2/							ot. Rev			13-Nov-2012				
AADT/Year		15,	420/2	2011 (A)						low-Up		2 4.10		_			
Road Classificat	ion	RA	U-213	.4-110							_,						
Detour Length (I	(m)	8															
Allowable Load	(t): Sin	gle	CS1	28		Semi	C	CS2 49			Tra	ain (CS3 62		> On Crit	cal Spar	าร
Decise Leadings			1100												>Critical I		
Design Loading:			HS2	5			P	osting	Infor	nation					> Primary	' Span	
Required Vert. C	learan	nce F	Postino	g (m)	UNDEF	R: 16A		.3m, 16									
Posted Vertical				5 ()	Yes		-	-,-									
	EB		· · · ·	idge (m)		In Adv	ance	(Y/N)	No	Lane	e W	/B	On Bridge (m)	5.3	In Advanc	e (Y/N)	Yes
Remarks	Not in			• • •				. ,					off ramp. Shou		1	. ,	
Required Load F					Single	- 5				Semi	-				k Train		
Posted Loading		(-)			Single					Semi			Truck Train				
Posted:	Lane		SB		At Junction (Y/N)			No		In Advance (Y/N)		I) No	At Bridge (Y/N) No				
Posted:	Lane	_	NB		At Junction (Y/N)		No		In Adv		· · ·			At Bridge (Y/N) No			
Remarks	Not re	_								III Auv		6 (1/1)					
Hazard Marker		-		Yes													
Remarks		ge (1/11)		& SE on	lv											
Other Sign Type	s				tion, Wa		Spee	ed									
outor orgin type				linoina		, in ing,		tilities (Loca	ted at)							
Utility Attachmer	nts									,							
Telephone									Ga	s							
Power	3 wire	s NI	= r/w.							nicipal							
Others										Problem (Y/N) No							
Remarks	Light p	pole	s on p	iers, G/S	and on	interch	nange	e ramps	. Mir	or pittir	ng in	splas	h zone.				
				1				Appro	ach F	load							
							Last			olanati							
Horizontal Aligni							8	8	Typ	oical gra	ade	separa	ation.				
Vertical Alignme	nt						8	8									
Roadway Width	(m)			15.500					2~	v0 3~~ ·		ion of	annroach alab b	rokor	n at 9 and af	CBI ~ ~	oto
Approach Bump				7	5	Pot	2mx0.3m section of approach slab broken at S end of SBL. Pothole forming in ACP at edge of NW approach slab - phot ACP is cracked & ravelling, potholes N end SBLphoto			- photo.	010						
Guardrail (Y/N) Yes								Not standard post spacing.									
Guardrail					5	4	_1 p	1 post missing NE-photo									
Length (m) 34.200																	
Current Standard (Y/N) No																	
Termination T	/pe			Turned	Down												
Drainage					3	3	has Wh	All concrete drain troughs have broken - photo. Catch basin @ N has been covered with asphalt. Asphalt at SE falling apart @ bas Wheel trap @ SE corner - photo. Drainage undermining NE approachphoto				NE basin.					

Alberta Transportation

	Approach Road										
					Last	Now	Explanation of Condition				
Approach Road General Rating					3	3					
						0					
Bridge Com	onent				Last		tructure Explanation of Condition				
Bridge Component (Primary Span : VF, 4 Spans, Lengths(m): 13.7-35.1-3							•				
Special Feat			guis(ii	<u>1). 13.7-33.1-</u>	55.1-15	. <i>1</i> , A-Iu					
•					6	6					
						0					
(Type : EXT LATER POST TENS)						X					
Special Feature											
(Type :) Wearing Surface/Deck Top Detail Ratings											
	N (%)	1 (%)	taing	2 (%)	3 (%)						
Last		1 (70)									
Now											
Wearing Surf	ace			1	4	4	FRSF O/L.				
	/pe : CONCRI	FTF)			•		Two intermittent longitudinal cracks down center of both lanes.				
(Thickness)	•	/					Wearing surface spalls adjacent to joints - photo.				
	ection Problen	n Y	/es								
(Y/N)											
Deck Top					N	N					
Deck Rideabi	Deck Rideability					6					
Deck Joints					3	3	Gland has two 1.0 m rips (SBL) over pier 1. All pier joints leak at				
Temperature (deg. C) 5 (Expansion Type : FINGER PLATES;GLAND (WAB) TRANSFLEX, ETC)) (Fixed Type : GLAND (WABO-MAUER, TRANSFLE))							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 leakagephotos 1/2 of baffle angle missing at P3 joint NBL. Missing coverplate at curbphoto Curb broken and coverplate bent at P2 W sidephoto				
Gap Size (mm) Gap Location											
70 S. abut											
15 S. pier				r			_				
15			C. pie	r							
20			N. pie	r			_				
75			N. abi	ut			-				
Deck Drainag	je				3	3	Joint and plumbing at abutment joints failed with water damage such				
Drains Clog	ged (Y/N)	Ν	No				as delamination, staining & erosion at abutments the resultphoto				
Curbs/Mediar	า				4 4		Rebar exposed with inadequate cover.				
(Curb Type	: Standard)						Spalling at random locations. Medium transverse cracks 1m o/c E curb.				
Scaling (Pe	rcent Area)	1									
Bridge Rail					7	7					
(Type : GA	LVANIZED ST	FEEL BI	RIDGE	TUBE)			Several AB's have insufficient threads.				
Bridge Rail P	osts				4	4					
(Type : GAI STEEL)	LVANIZED PO	OST ST	EEL;G	ALVANIZED	POST		Dirty.				
Bridge Rail/P	osts Coating				6	6					
(Type : GALVANIZED)											
Sidewalk					X	X					
Girder Detail	Ratings	1									
	N (count)	1 (cou	nt)	2 (count)	3 (count)		East leg of G6 on span 1 at P1 has a vertical crack with rust stains				
Last					10		extending from connector boltphoto				
Now					· ·	11					

			Supers	tructure				
Bridge Component		Last		Explanation of Condition				
(Primary Span : VF, 4 Spans, L	engths(m): 13.7-35.1-3	5.1-13	.7, A-ld	ent Number:)				
Girders		3	3	Most exterior girders have wide vertical cracks in ends. HLD over all				
Cracking (Y/N)	Cracking (Y/N) Yes			lanes. Worst is EBL, West curb. Low cover on South span West ext girder creating delam & rusting rebar. Spot rust stain on S2G3. Mino				
Spalling (Percent Area) 1				spall on leg of S2G2 near P2.				
(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/headslopes, no				
Temperature (deg. C)	4			issues apparent.				
(Expansion Type : REINFORC TEFLON AND STAINLESS S	ED NEOPRENE BEAR TEEL)	RING W	/ITH					
(Fixed Type : REINFORCED I TEFLON AND STAINLESS S	NEOPRENE BEARING	WITH						
Coating Adequate (Y/N)	Yes							
Functioning (Y/N)	Yes							
Deck Underside		4	4	Minor staining around weep tubes. Stains are old. Spall around deck				
Stains (Percent Area)				drain @ P2 West side - photo. Numerous delams around weep tubes @ S4G10 - photo. 300mm dia. spall S end S1G1photo				
Span Alignment Problems								
Vertical (Y/N)	No							
Horizontal (Y/N)	No							
Superstructure General Ratin	g	3	3					
			Subst	ructure				
Bridge Component		Last	Now	Explanation of Condition				
Abutments		Laot	11011					
Bearing Seats/Caps		6	6					
(Type : CONCRETE)			-					
Backwalls/Breastwalls		5	5					
Wingwalls			3	Forms still in place @ SW corner - photo. Spalling & wide cracks @ SE & SWphoto. 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.				
Bearing Seats/Caps		4	4	Delam under G6 @ P3.				
(Type : CONCRETE)								
(Total Number of Bearing Piles	5:5:5)			-				
Pier Shaft/Piles		7	7					
Bracing/Struts/Sheathing		X	X					
Nose Plate		Х	Х					
Paint/Coating		5	5	Biege.				
(Colour Description :)								
(Colour Code :)				1				

Substructure									
Bridge Component		Last	Now	Explanation of Condition					
Pier Stability		8	8						
Scour		Х	Х	(Water ponding around pier piles. 05/Mar/2007)					
Debris (Y/N) No									
Substructure General Rating		4	4						
		S	Structu	re Usage					
		Last	Now	Explanation of Condition					
Grade Separation	Grade Separation								
Road Alignment			9						
Traffic Safety Features		4	4	Light on North side of P1 removed, wire exposed.					
Туре	Guardrail, Lighting								
Slope Protection		4	4	Slope has settled 200mm-300mm @ top of slope on both abutments.					
(Type : NATURAL; NATURAL)	1								
Bank Stability		8	8						
Drainage		4	4	Water draining under South abutment seat creating void.					
Grade Separation General Ration	ng	4	4						

Maintenance Recommendations								
Inspector Recommendations	Year	Inspector Comments	Department Com	ments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL								
GALVANIZE/PAINT BRIDGE RAIL								
SEAL CURBS								
PATCH DECK	2013	Repair deck spall (underside) @ P2 & P1A1.						
SEAL DECK	2013	Seal cracks in deck.						
OVERLAY DECK								
REPAIR/REPLACE DECK JOINTS	2013	Repair curb cover plate @ P2 & P3. Replace plumbing at abutment joints. Repair pier joints.						
RESET/ PAINT BEARINGS								
WASHING								
SHOTCRETE REPAIRS								
REPAIR ABUTMENT SCOUR/EROSION								
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
OTHER ACTION	2012	Repair all broken concrete drain troughs.						
OTHER ACTION	2013	The required VC posting is noted as 5.2m but bridge is posted for 5.3m clearance. Change VC signs on bridge to 5.2m ASAP. Add clearance signs to EBL.						
OTHER ACTION	2013	Fill and repair voids at all 4 corners of the bridge @ bridge approaches.						
OTHER ACTION	2013	Fill voids under abutments and grade to provide proper drainage.						
OTHER ACTION	2013	Remove forms @ SW corner.						
OTHER ACTION	2013	Repair pothole @ NW approach slab.						
OTHER ACTION	2013	Install missing approach rail post at NE.						
OTHER ACTION	2013	Patch ACP & seal cracks at approaches.						
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/Now) (%)	38.9/38.	.9 Sufficiency Rating (Last/Now) (%)	28.3/28.3	Est. Repl. Yr	2022	Maint. Rec	ąd. (Y/N)	Yes
Comments for Monitor concrete overlay	spalls and	tor wingwall and pier cap cracks & delams. cracks. o allow water to drain through abutment joints.	Department Comments					
Maintenance Reviewed By			Date		E	stimated Total	0	
Proposed Long-Term Strategy								

Alberta Transportation	Bridge Inspection & Mainte	nance System (Web 2005)	77254 -1 Bridge			
On 3-Year Program (Y/N)						
Proposed Action						
Draviava Increastoria Nama	Chang Hall	Draviaua Assistant's Nor				
Previous Inspector's Name	Shane Hall	Previous Assistant's Nam				
Next Inspection Date	18-Jul-2014	Previous Inspection Date	06-Oct-2010			
Inspection Cycle (Default) (months)	21					
Comment						