								Bridge lı	nspe	ction							
Bridge File Num	ber	78802 S-2 Bridge						Form Type		SG							
Year Built/Year		1995/1995								Lot No. 2		2					
Supstr										Inspector Name		Kris Bosters					
Bridge or Town Name SPRUCE GR									pector			BR CLS A					
Located Over 16:16 L1 0.000;16:16 R1 0.000;					0.000;R	;RAMP 99-1 C			Assistant Name								
Located On 60:04 L1 3.171									Assistant Class								
Water Body Cl./Year								Ins	pection	Date		17-Dec-2012					
Navigabil. Cl./Year									Data Entry By		Theresa Lac	usta					
				9 TWP 53 RGE 26 W4M									07-Jan-2013				
				49, 53:34:11						Reviewer Name		Eric Carcoux					
Road Authority				ansporta	ation (Al	T)			Rev	Review Date		03-Jan-2013					
Contract Main. A		CMA							De	ot. Rev	iewer	Name	Paul Catt				
Clear Roadway/	Skew	10.4	-						De	ot. Rev	iew Da	ate	18-Jan-2013				
AADT/Year				011 (A)					Fol	low-Up	Ву						
Road Classificat			-209-1	110					-								
Detour Length (I		1	004			0	-	00.45			<b>-</b> ·				0.01		
Allowable Load	(t): Sir	ngle	CS1 2	28		Semi	i CS2 49				Trair		3 62		> On Crit >Critical	ical Spa Member	ns
Design Loading:			CS75	0									> Primary Span				
							Р	osting l	nforr	nation							
Required Vert. C	Clearar	nce Po	osting	(m)	UNDEF	R: 16 L1	5.7	'm, 16 R	1 5.7	'n							
Posted Vertical	Cleara	nce (Y	Y/N)		Yes												
Posted: Lane	EB	0	n Brid	lge (m)	5.5	In Adva	nce	(Y/N)	No	Lane	WB	s c	n Bridge (m)	5.5	In Advanc	e (Y/N)	Yes
Remarks	West	bound	l clear	ance po	sted on	Northb	ound	d structu	re.								
Required Load F	Posting	) (t)			Single	Single			Semi			Truck	< Train				
Posted Loading	(t)				Single				Semi			Truck	Truck Train				
Posted:	Lane	N	IB		At Junc	tion (Y/	N)		In Advance (Y/N)			At Bridge (Y/N)					
Posted:	Lane	S	В		At Junc	tion (Y/	N)	No		In Advance (Y/N) No At E		At Br	idge (Y/N)	No			
Remarks Not required.																	
Hazard Marker	At Brid	ge (Y/	/N)	No													
Remarks				Not req	uired.												
Other Sign Type	es			Informa	tion.												
							U	tilities (l	oca	ted at)							
Utility Attachme	<u> </u>											1					
Telephone	SW a	djacer	nt to b	ridge.					Ga								
Power										nicipal							
Others	Street									blem (`	Y/N)	Yes	ſes				
Remarks	Cove	r plate	e missi	ing at lig	pht stand	dard on	brid	ge - pho									
								Approa				0	tion				
Horizontal Alica	mont					L	<b>.ast</b> 7	Now		olanati ade sep			uon				
Horizontal Align							7	7		iue sep	aiall0	n I.					
Vertical Alignment					1	/	١٨/١٠		ke in /		approaches.	Rave	lling at joint	s - nhoto			
Roadway Width (m) 10.900				7	4	VVIC	ie ciac	NO 111 F	NUF di	approaches.	Nave	anny at joints	5prioto	2			
Approach Bump Guardrail (Y/N) Yes				1	4	<u>e</u> n		arad	damo	ne noted as pr	aviou	e inenection	annear	e to			
Guardrail (Y/N) Yes				4	N		ow cov ve been			ge noted as pr	eviou	a mapection	appears	5 10			
Length (m) 57.000				4	IN	1											
Length (m) 57.000   Current Standard (Y/N) No																	
Termination T		(N)		Turn Do	wn												
Drainage	,60						4	N	NE trough failed and water drains under trough & slope protection - photo06-Oct-2010				tion -				
Approach Road	d Gene	eral Ra	ating				7	7	Sno		ered.						
	2.5.10						•										

Bridge Com	nonont				Last	Now	tructure				
Bridge Component (Primary Span : WG, 3 Spans, Lengths(m): 34-34-28,											
Special Feat		ans, Lei	ngths(i	<u>11). 34-34-20,</u>	A-luen	t Num	Der. A 1257-02)				
Special Feat						X					
•						~					
(Type : ) Special Feature						Х					
(Type : )	ue					~					
	aco/Dock Top	Dotail	Doting	<u> </u>							
Wearing Surface/Deck Top Detail Ratings   N (%) 1 (%) 2 (%)			2 (%)	3 (%)		Snow along curbs.					
Last		1 (70)		2 (70)	5 (70)						
Now	20.0										
Wearing Surf					5	5	3m long x 40mm gouge has been sealed. Transverse cracking				
	ype : ACP - C	ONVEN			-	-	reflecting through the seal coat.				
(Thickness	-				2 00/11	/	-				
Deck Top					N	N					
Беск төр											
Deck Rideab	ility				8	8					
Deck Joints					4	6	Finger plate slapping under traffic06-Oct-2010				
Temperatu	re (deg. C)	-	-18				Not slapping 17-Dec-2012				
(Expansion	Type : GLAN ER PLATES)	ID (WAI	BO-MA	UER, TRANS	SFLEX,						
(Fixed Type		<u> </u>					-				
Gap Size (r			Gap I	ocation							
75			· ·	Abutment							
105			1	Abutment							
Deck Drainag	qe				7	N	Too much snow to view.				
Drains Clog	•	1	No								
Curbs/Media					6	N	Typical vertical and transverse cracks @ 0.3m spacing.				
(Curb Type	: Standard)						Snow covered.				
Scaling (Pe	· · · · · · · · · · · · · · · · · · ·	(	)								
Bridge Rail					8	4	150mm x 3m dent bottom rail, SW corner of bridge. 2 rail sections				
	LVANIZED S	TEEL B	RIDGE	TUBE)			damagedphoto Bas of posts partially snow covered.				
Bridge Rail P	osts				8	N					
(Type : GA STEEL)		OST ST	EEL;G	ALVANIZED	POST	-					
Bridge Rail/P	osts Coating				8	8					
	LVANIZED)										
Sidewalk					X	Х					
Girder/Beam	1										
Cover Plate					X	X	4 girders/span.				
Flange					8	8					
Web					8	8	1				
Stiffeners					8	8	1				
Splice					8	8	]				
Weld					8	8	]				
Diaphragms/Cross Frame					8	8					

Alberta Transportation

				tructure					
Bridge Component		Last Now		Explanation of Condition					
(Primary Span : WG, 3 Spans, L	engths(m): 34-34-28,	A-Iden	t Numb	per: A1257-02)					
Paint Condition		X	X	Weathering steel.					
(Colour Description : )									
(Colour Code : )									
Touchup Required (Y/N)	No		-						
Bearings			8	South end too high to inspect. Need snooper to inspect South					
Temperature (deg. C)	-18			abutment. Pier bearings inspected from headslopes.					
(Expansion Type : REINFORC TEFLON AND STAINLESS ST	ED NEOPRENE BEAR TEEL)	RING W	/ITH						
(Fixed Type : REINFORCED N TEFLON AND STAINLESS ST	EOPRENE BEARING	WITH		-					
Coating Adequate (Y/N)	Yes			-					
Functioning (Y/N)	Yes								
Deck Underside	1	5	5	Transverse cracks with efflorescence under curbs.					
Stains (Percent Area)	1								
Span Alignment Problems									
Vertical (Y/N)	No								
Horizontal (Y/N)	No								
Superstructure General Rating	I	5	5						
			Subst	ructure					
Bridge Component		Last	Now	Explanation of Condition					
Abutments		1							
Bearing Seats/Caps		8	7	Random narrow cracks.					
(Type : CONCRETE)			1						
Backwalls/Breastwalls		7	7	Random narrow cracks.					
Wingwalls		5	5	Medium cracks with rust staining @ SE. Map cracking at SW, NE & NW.					
Piles		N	N						
Paint/Coating		6	4	5% peeling/flaking.					
Abutment Stability		8	8						
Scour/Erosion		Х	Х						
Piers/Bents									
(Type : <b>PIER-COLUMN</b> )				Map cracking on cap ends.					
Bearing Seats/Caps		6	6						
(Type : CONCRETE)									
(Total Number of Bearing Piles :	0:0)			Map cracking on shafts.					
Pier Shaft/Piles		6	6						
Bracing/Struts/Sheathing			Х						
Nose Plate		Х	Х						
Paint/Coating		6	5	Grey. Less than 5% flaking/peeling.					
(Colour Description : )		-	-						
(Colour Code : )									
Pier Stability		8	8						
Scour		X	X						
Debris (Y/N)	No								

## Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

			Subst	ructure				
Bridge Component			Now	Explanation of Condition				
Substructure General Rating			6					
		S	Structu	ure Usage				
		Last	Now	Explanation of Condition				
Grade Separation			_					
Road Alignment			5	In median only. Wide crack in ACP EBL.				
Traffic Safety Features			7					
Type Guardrail								
Slope Protection		4	4	Top separated & moving away from abutment. South protection				
(Type : CONCRETE; CONCRE	ETE)			settled 25mm, pulled away 15mm. North protection settled 75mm pulled away 175mm & drain troughs settled 75mm - photo.				
Bank Stability			8					
Drainage			N	Ponding on shoulders - photo06-Oct-2010 Too much snow to view.				
Grade Separation General Rati	ng	4	4	Carried forward from 06-Oct-2010				

Alberta Transportation

78802 S-2 Bridge

Maintenance Recommendations								
Inspector Recommendations	Year	Inspector Comments	Department Co	omments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2013	Replace damaged section of rail at SW.						
GALVANIZE/PAINT BRIDGE RAIL								
RETROFIT BRIDGE RAIL								
SEAL CURBS	2013	Seal cracks in ACP/chipseal.						
PATCH DECK								
SEAL DECK								
OVERLAY DECK								
REPAIR/REPLACE DECK JOINTS								
RESET/ PAINT BEARINGS								
REPAINT SUPERSTRUCTURE								
STRAIGHTEN/REPLACE MEMBERS								
WASHING								
SHOTCRETE REPAIRS								
REPAIR ABUTMENT SCOUR/EROSION								
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
OTHER ACTION	2013	Replace missing light standard access cover plate.						
OTHER ACTION	2013	Seal gap in top of both concrete slope protection.						
OTHER ACTION	2013	Repair NE concrete drain, if not already done.						
OTHER ACTION	2013	Remove sand/gravel from base of North headslope to improve drainage, if not already done.						
OTHER ACTION	2013	Patch ACP at approaches.						
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/Now) (%)	61.1/61	.1 Sufficiency Rating (Last/Now) (%)	51.9/50.6	Est. Repl. Yr	2047	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments					
Maintenance Reviewed By			Date		F	stimated Total	0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								

Proposed Action			
Previous Inspector's Name	Shane Hall	Previous Assistant's Name	
Next Inspection Date	17-Sep-2014	Previous Inspection Date	06-Oct-2010
Inspection Cycle (Default) (months)	21		
Comment			