							Bridge I	nspe	ction							
Bridge File Numl	oer	75193 E-1 Bridge										PSR				
Year Built/Year 1961/1961						Lot	Lot No.			4						
Supstr								Insp	Inspector Name			Eric Carcoux				
Bridge or Town Name SPRUCE GROVE						Insp	Inspector Class			BR CLS A						
Located Over CNR						Ass	Assistant Name									
Located On 16A:16 R1 0.981						Ass	Assistant Class									
Water Body Cl./Year						Insp	Inspection Date			10-Aug-2012	2					
Navigabil. Cl./Year											Theresa Lac					
Legal Land Location SW SEC 6 T				S TMD 53 DCE 26 MAM								10-Oct-2012				
Longitude, Latitude -113:50:05			50:05, 53:	:05, 53:32:36								Stew Hagan				
Road Authority Alberta Tra			ta Transpo	rtatior	n (AIT)				Review Date			13-Sep-2012				
Contract Main. Area CMA11			11									Brent Herricl				
Clear Roadway/	Skew	11.6	/ -45 deg.	LHF)					ot. Revie			10-Oct-2012				
AADT/Year		26,38	30 / 2011 (۸)				<u> </u>	ow-Up I		110	10 000 2012				
Road Classificat	ion	RAD-	-412.4-120					1 011	ow-op i	у						
Detour Length (k	m)	1														
Allowable Load (t): Sin		CS1 43		Se	mi C	S2 56			Train CS3		3 74		> On Critical Spans		
			GIRDER			G	IRDER				GIF	RDER		>Critical Member		
Design Loading:		l	HS20											> Primary	/ Span	
D : 11/ 1 G	1		· · · /)			P	osting l	nforn	nation							
Required Vert. C																
Posted Vertical C				No			0.400								0.400	
Posted: Lane	FB	O	n Bridge (r	ו)	In A	dvance	(Y/N)		Lane	WB	0	n Bridge (m)		In Advanc	e (Y/N)	
Remarks												T 1 T .				
Required Load F		(t)			igle			Semi					< Train			
Posted Loading	(t)			Single				Semi					Truck Train			
Posted:	Lane	El		At .	At Junction (Y/N)		No		In Adva		` '	No	At Bridge (Y/N)		No	
Posted:	Lane	WB		At .	At Junction (Y/N)				In Adva	ance	(Y/N)	At Br		idge (Y/N)		
Remarks	Not re															
Hazard Marker A	t Brid	ge (Y/l														
Remarks			Not required. Curve, Speed, Slippery When Wet.													
Other Sign Type	S		Curv	, Spe	ed, Slipp	_										
							tilities (l	Loca	ted at)							
Utility Attachmer			R UTILITIE	S-PO	WER LIN	lE .		1_								
Telephone	South							Gas								
Power	2 wire	s Nort	tn r/w.					Municipal No. No.								
Others								Problem (Y/N) No								
Remarks							A									
							Approach Road Last Now Explanation of Condition									
Horizontal Aligar	nant					Last 6	Now 6		Road is on horizontal "S" curve with a crest curve limiting					ing sight		
Horizontal Alignment			6	6		ance.	HUHZ	ontal .	Curve Will	a UIE	or carve IIIIIII	ing agni				
Vertical Alignment Roadway Width (m) 11.400			0	U												
Roadway Width (m) 11.400 Approach Bump			6	6												
Guardrail (Y/N) Yes			0	0												
Guardrail (Y/N) Yes Guardrail			4	6												
			4	0												
Length (m) 91.000																
Current Standard (Y/N) Yes																
	Termination Type Turned Down															
Drainage				6	6											
Approach Road	Gene	ral Ra	ating			6	6									
, ,																

							structure					
Bridge Comp	onent				Last	Now	Explanation of Condition					
(Primary Spa	n : PO, 3 Spa	ns, Ler	ngths(n	n): 19.5-19.5-	19.5, A	-Ident I	Number:)					
Special Feat	ures											
Special Featu	ıre				N	N	No key - locked.					
(SType : CA	ATH PROTEC	TION)										
Special Featu	ıre					X						
(Type:)												
Wearing Surfa	ace/Deck Top	Detail	Ratings	}								
	N (%)	1 (%)		2 (%)	3 (%)							
Last												
Now												
Wearing Surf	ace				8	7						
	pe : CONCRI	ETE)					HDO w/fibres					
(Thickness)	•											
	ection Problen	n I	No									
Deck Top					N	N						
Deck Rideabi	ility				7	7						
Deck Joints					7	7						
	re (deg. C)		22		'							
Temperature (deg. C) 22 (Expansion Type : GLAND (WABO-MAUER, TRANS (Fixed Type :)				HED TOANS	SELEY	ETC\\						
		ע (אאר)	DO-IVIA	OLIX, IIXAIX	JI LLA,	LIGJ						
			Con I	ocation								
Gap Size (r	11111)		†									
75 75	E. abu											
75		E. pie										
75		W. pie										
75			W. ab	ut								
Deck Drainag	је				6	6	No deck drains.					
Drains Clog	ged (Y/N)		No			,						
Curbs/Mediar	n				8	7						
(Curb Type	: Standard)											
Scaling (Pe	rcent Area)		0									
Bridge Rail					8	7						
(Type : GA l	LVANIZED \$1	ΓEEL B	RIDGE	TUBE)		_						
Bridge Rail P	osts				8	7						
(Type : GAI STEEL)	LVANIZED PO	OST ST	EEL;G	ALVANIZED	POST							
Bridge Rail/P	osts Coating				8	7						
(Type : GA	LVANIZED)											
Sidewalk					X	X						
Girder Detail	Ratings											
	N (count)	1 (cou	ınt)	2 (count)	3 (cou	unt)						
Last												
Now						1						
Girders					5	3	Typical cracking at shoe plate. Vertical crack @ East end SP2G1.(photo)					
Cracking (Y	′/N)	,	Yes				Vertical crack @ East end SP2G1.(photo) (Not debonding)					
	ercent Area)		0				(Not deponding)					
	lumber Of Girders : 21)											

			Supers	structure						
Bridge Component			Now							
(Primary Span : PO, 3 Spans,	Lengths(m): 19.	5-19.5-19.5, A	-Ident							
Diaphragms/Cross Frame		6	6	Superficial rust.						
Bearings		6	6							
Temperature (deg. C)										
(Expansion Type : SLIDING	PLATE)									
(Fixed Type : PINNED BEAF	RING)									
Coating Adequate (Y/N) Yes										
Functioning (Y/N)	Yes									
Deck Underside	•	6	6	Stained from train exhaust. Some salt staining. Numerous patches.						
Stains (Percent Area)	5									
Span Alignment Problems										
Vertical (Y/N)	No									
Horizontal (Y/N)	No									
Superstructure General Rati		5	3							
·										
Dridge Commonent		Locat		ructure						
Bridge Component Abutments		Last	Now	Explanation of Condition						
Bearing Seats/Caps		6	6							
		6	0							
(Type : CONCRETE)										
Backwalls/Breastwalls		6	6							
Wingwalls		6	6							
Piles		N	N							
Paint/Coating		Х	Х							
Abutment Stability		7	7							
Scour/Erosion		Х	7							
Piers/Bents										
(Type : PIER-COLUMN)				Pier caps have been patched.						
Bearing Seats/Caps		6	6							
(Type : CONCRETE)										
(Total Number of Bearing Piles	s : 7:7)									
Pier Shaft/Piles		6	6							
Bracing/Struts/Sheathing		Х	Х							
Nose Plate		Х	Х							
Paint/Coating	X	X								
(Colour Description :)										
(Colour Code :)										
Pier Stability	8	7								
Scour	X	Х								
Debris (Y/N)	No									
Substructure General Rating	Substructure General Rating									

		re Usage					
	Last	Now	Explanation of Condition				
Grade Separation							
Road Alignment		X					
Traffic Safety Features		X					
Туре							
Slope Protection	5	5	East slope protection is humped, south side has started to break up.				
(Type : CONCRETE; CONCRE	TE)	Both headslopes have gaps of 150mm or more to indicate sliding. Some repairs done.					
Bank Stability		5					
Drainage		6					
Grade Separation General Ratin	ng 5	5					

		Maintenance R	ecommend	lations					
Inspector Recommendations	Year	Inspector Comments		Department Comm	ents		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL									
GALVANIZE/PAINT BRIDGE RAIL									
SEAL CURBS									
PATCH DECK									
SEAL DECK									
OVERLAY DECK									
REPAIR/REPLACE DECK JOINTS									
RESET/ PAINT BEARINGS									
WASHING									
SHOTCRETE REPAIRS									
REPAIR ABUTMENT SCOUR/EROSIC	N								
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/No (%)	ow) 61.1/50	.0 Sufficiency Rating (Last (%)	/Now)	60.1/53.6	Est. Repl. Yr	2035	Maint. Re	qd. (Y/N)	No
Special Monitor cracking at S Comments for Next Inspection	SP2G1.			Department Comments					
Maintenance Reviewed By				Date		ı	Estimated Tota	1 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	10-May-2014		Previous	Inspection Date 06-Oct-2010					
Inspection Cycle (Default) (months)	21								
Comment									