Bridge Inspection															
Bridge File Number 78570 E-1 Bridge							Form Type				SG				
Year Built/Year	1981/1981						Lot No.			2					
Supstr								Inspector Name			Tom Carey				
Bridge or Town Name							Inspector Class			BR CLS A					
Located Over	14062:02 L1 0.059;14062:02 R ²					1	Assistant Name								
Located On	1:21 R1	2.211						Assistant Class							
Water Body Cl./Year							Inspection Date			07-Feb-2012					
Navigabil. Cl./Year								Data Entry By			Anne Roberts				
Legal Land Location	NE SEC	3 TWP 1	3 RGE 6	6 W4M			Data Entry Date			24-Mar-2012					
Longitude, Latitude -110:44:23, 50:03:19								Reviewer Name			Garry Roberts				
Road Authority Alberta Transportation (AIT)										26-Feb-2012					
Contract Main. Area	CMA23				_			ot. Revie	ewer N	Name	Tim Davies				
Clear Roadway/Skew	15.3 /							ot. Revie			29-Mar-2012				
AADT/Year	20,270 /	2011 (A)					_	low-Up E							
Road Classification	RFD-412	2.4-130						on op :	-,						
Detour Length (km)	1														
Allowable Load (t): Sin	ngle CS	1 28		Semi	C	S2 49	Train CS			3 62> On Critical Span			ns		
D : 1 !:	140												>Critical Member		
Design Loading:	MS	23											> Primary	Span	
Paguired Vert Clearer	no Postir	na (m)	LINDE	2.1406		osting I		R1 5.3r	m						
Required Vert. Clearar				X. 1400)Z L I	5.3III, I	4002	K I 5.5I	11						
Posted Vertical Cleara		ridge (m)	Yes	ابم ۸ مایره		(X/NI)	No Lane SB O		D:1 ()		Lin Andrean	/\//NI\	Vaa		
				In Adva		, ,	No	Lane		0	n Bridge (m)		In Advance	(Y / IN)	Yes
		10 3/B an		IN/D. C.	XISUIT	g posiiri	g is accurate)			Truck Train					
Required Load Posting (t) Single							Semi			Truck Train					
Posted Loading (t) Single			0.1		 		Semi		2.42.1			Truck Train			
Posted: Lane	EB	1			` /		In Advance (Y/N)		No	At Bridge (Y/N) At Bridge (Y/N)		No			
	Lane WB At Junction (/N)		In Advance (Y/N)			At Br	ridge (Y/N)				
Remarks Not required															
Hazard Marker At Bridge (Y/N) Yes															
Remarks															
Other Sign Types CURVE, SPEED INFO								4 . 1 . 4							
Littlite. Attaches auto					Ut	tilities (l	Loca	ted at)							
Utility Attachments							0-	_							
Telephone								Gas Municipal Lighting @ deck underside				-1-			
Power SE															
Others							Problem (Y/N) No								
Remarks						Арркос	ah E	ood							
					Last	Approa Now			n of C	Condi	tion				
Horizontal Alignment					7	7	Over Box Spring Road								
Vertical Alignment					<u>'</u> 7	7	1	DOX 0	פיייק	· voud					
						,									
Approach Bump	Roadway Width (m) 12.500					6									
Guardrail (Y/N) Yes					6	J	Min	or dama	ane at	5\\\\	Wrong lan an	d mic	sina 1 enlice h	nolte at	SF.
Guardrail (1714) Tes				4	4	Wro	Minor damage at SW. Wrong lap and missing 4 splice bolts Wrong lap at NE				ono al	JL			
							Not	thriebea	am						
Length (m) 41.000															
Current Standard (Y/N) No															
Termination Type TURN DOWN					6	6									
Drainage					_										
Approach Road Gene	eral Ratin	g			7	7									

					Supers	tructure				
Bridge Compone	ent			Last		Explanation of Condition				
(Primary Span : V		ns, Lengths	s(m): 25-25, A							
Special Features		<u> </u>	` '			,				
Special Feature										
(Type:)										
Special Feature										
(Type:)										
Wearing Surface/	/Deck Top I	Detail Ratin	ne e							
N (1 (%)	2 (%)	3 (%)						
Last	0	0	0		0					
Now	0.0	0.0	0.0).0					
Wearing Surface	<u> </u>	0.0	0.0	4	4	Isollated long & trans cracks				
(Material Type		TE\		4	4	Moderate popouts				
(Thickness(mm		IE)				Construction joint @ E span that corresponds with spalling & efflorence @ deck underside has a crack				
<u> </u>	1) . 30)					Corresponds with spanning & emorence & deck underside has a crack				
Deck Top				N	N					
Deck Rideability				7	7					
Deck Joints				4	4	(Active leakage at NE abut and seal appears partially out of extrusion				
Temperature (d	dea. C)	-6				above at A2) Joint gravel filled - seal not seen above extrusion. Rated 4 due to past comment				
(Expansion Typ	-		AUER. TRAN	SFLEX.	ETC))	Rated 4 due to past comment				
(Fixed Type :)		(,	<u></u> ,						
Gap Size (mm)		Gan	Location							
46	<u>'</u>	E ab								
35		W al				-				
	vv abut					-				
Deck Drainage				4	4	Possible leakage through E span				
Drains Clogged	1 (V/NI)	No		4	4	construction joint. No deck drains				
Curbs/Median	<i>x</i> (1/1 4)	INO		7	7	Tun verterking @ 1m enceing				
	tondond\			/	1	Typ vert crking @ 1m spacing				
(Curb Type : St										
Scaling (Percer	nt Area)	0								
Bridge Rail				7	7	Missing isolated bolts at fixed rail splices but not required				
(Type : BRIDGI					_					
Bridge Rail Posts		OT 67	0 4 1 1/4 1 ···	7	7					
(Type : GALVA STEEL)	NIZED PO	STSTEEL;	GALVANIZED	POST						
Bridge Rail/Posts	Coating			6	6					
(Type:)										
Sidewalk				X	Х					
Girder/Beam										
Cover Plate				X	Х	10 lines				
Flange				8	8					
Web				8	8	1				
Stiffeners				8	8					
Splice				8	8	1				
Weld				8	8					
Diaphragms/Cros	ss Frame			8	8					
	Jo i famic									

			Supers	tructure					
Bridge Component		1		Explanation of Condition					
(Primary Span : WG, 2 Spans, Le	engths(m): 25-25, A-l	dent N	umber:	: A0857-01)					
Paint Condition		Х	Х	Weathering steel					
(Colour Description :)									
(Colour Code :)									
Touchup Required (Y/N) No									
Bearings		6	6	Missing A/B nuts @ West abut- 2 at G7 and 1 at G8					
Temperature (deg. C)	-6			Fixed at A2					
(Expansion Type : REINFORCE TEFLON AND STAINLESS ST	ED NEOPRENE BEAR EEL)	RING W	/ITH	TINCU ALTIZ					
(Fixed Type : ROCKER BEARI	NG)								
Coating Adequate (Y/N)	Yes								
Functioning (Y/N)	Yes								
Deck Underside		4	4	Some efflorescence @ east span between G4- G5 approx 1m2					
Stains (Percent Area)	1			Surface spall over travel lane underside of deck - from construction joint above					
Span Alignment Problems									
Vertical (Y/N)	No								
	No								
Superstructure General Rating		4	4						
			Subst	ructure					
Bridge Component		Last	Now	Explanation of Condition					
Abutments									
Bearing Seats/Caps		8	8						
(Type : CONCRETE)									
Backwalls/Breastwalls		8	8						
Wingwalls		7	7						
Piles		N	N	Buried					
Paint/Coating		6	6	Tar coating					
Abutment Stability		8	6						
Scour/Erosion		Х	Х						
Piers/Bents									
(Type : PIER-COLUMN)									
Bearing Seats/Caps		8	8						
(Type : CONCRETE)									
(Total Number of Bearing Piles : 7	')								
Pier Shaft/Piles		8	8						
Bracing/Struts/Sheathing		8	8						
Nose Plate		Х	Х						
Paint/Coating			6	White paint on piles					
(Colour Description :)				1					
(Colour Code :)									
Pier Stability		8	8						
Scour		Х	Х						
Debris (Y/N)	No		1						

Substructure									
Bridge Component			Now	Explanation of Condition					
Substructure General Rating			8						
	re Usage								
		Last	Now	Explanation of Condition					
Grade Separation									
Road Alignment		5	5						
Traffic Safety Features		7	7						
Туре	MEDIAN								
Slope Protection		7	7						
(Type : CONCRETE; CONCRE	ETE)								
Bank Stability		7	7						
Drainage		7	7						
Grade Separation General Rating			5						

78570 E-1 Bridge

			Maintenance Re	ecommend	ations					
Inspector Recommendations		Year	Inspector Comments	<u>.commenc</u>	Department Comn	nente		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL		I cai	Inspector Comments		Department Comin	ICIIIS		Taiget Teal	LSI. COSI	Cat #
GALVANIZE/PAINT BRIDGE RAIL										
RETROFIT BRIDGE RAIL										+
SEAL CURBS										
PATCH DECK		2012	Patch deck underside @ E span-0.0	5 OHV m3						
SEAL DECK		2012	Seal E span construction joint	3 0117 1113						_
OVERLAY DECK		2012	Sear E spair construction joint							_
REPAIR/REPLACE DECK JOINTS		2012	Repair leaking seal A2 - if not done							
RESET/ PAINT BEARINGS		2012	Repair leaking sear A2 - II not done							_
REPAINT SUPERSTRUCTURE										
STRAIGHTEN/REPLACE MEMBERS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSI	ON									
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION		2012	Install N/B advance VC sign							
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow)	66.7/66.	Sufficiency Rating (Last/I	Now) 6	61.6/60.6	Est. Repl. Yr	2042	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By				,	Date		E	Estimated Tota	0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Garry F	Roberts		Previous /	ous Assistant's Name					
Next Inspection Date	07-Nov	/-2013		Previous I	nspection Date					
Inspection Cycle (Default) (months)	21				·	14-Jul-2010				
Comment										