Bridge Inspection																
Bridge File Number 81588 E-1 Bridge											SG					
Year Built/Year 1993/1993								Lot No.			2					
Supstr							_ Ins	Inspector Name			Jason Rusu					
Bridge or Town Name FORT MACLEOD									Inspector Class			BR CLS A				
Located Over 2:08 R1 0.000;2:08 L1 0.002							- As	Assistant Name								
Located On		3:06	R1 43	3.829					— As	Assistant Class						
Water Body Cl./	<b>Year</b>								_ Ins	Inspection Date			09-Oct-2011			
Navigabil. Cl./Ye	ar									Data Entry By			Alyssa Boynton			
Legal Land Loca	ition	NE :	SEC 3	TWP 9	PCE 26 WAM					Data Entry Date			17-Nov-2011			
Longitude, Latitu	ıde	-113	3:26:36	6, 49:42				Reviewer Name			Garry Roberts					
Road Authority		Albe	erta Tra	ansport	ansportation (AIT)				Re	eview Da	te		09-Nov-2011			
Contract Main. A	rea	CM	A26						De	ept. Revi	ewer N	Name	Tim Davies			
Clear Roadway/	Skew	16.1	1 /							ept. Revi			21-Nov-2011	1		
AADT/Year		4,42	20 / 20	10 (A)						llow-Up				·		
Road Classificat	ion	RFE	D-412.4	4-130					`	mon op	٠,					
Detour Length (k	(m)	1														
Allowable Load (	t): Sir	ngle	CS1 2	28		Sem	i C	S2 49		Train CS3 62			> On Critic	cal Spans lember		
Design Loading:			CS75	50								'			> Primary	Span
							P	osting	Info	rmation						
Required Vert. C	learar	nce P	osting	(m)	UNDEF	R: 2 L1	5.6m	n, 2 R1	6.1m	າ						
Posted Vertical (	Cleara	nce (	(Y/N)		Yes											
Posted: Lane	NB	(	On Brid	dge (m)	6.2	In Adv	ance	(Y/N)	Yes	Lane	SB	0	n Bridge (m)		In Advance	(Y/N)
Remarks	Not re	eq.														
Required Load F	osting	ı (t)			Single					Semi			Truck Train			
Posted Loading					Single					Semi			Truck Train			
Posted:	Lane	E	EB		At Junction (Y		Y/N) No			In Advance (Y/N)		No	At Bridge (Y/N) No		No	
Posted:	Lane		WB			At Junction (Y/N)				In Adv		·			idge (Y/N)	
Remarks Not required.					.,,			11111111	(				14.95 (1711)			
Hazard Marker A				No												
Remarks																
Other Sign Types INFORMATION, 60 K					M/HR	UNDE	R BF	RIDGE.								
ini Onwation, out								ated at)								
Utility Attachmer	nts								`							
Telephone									Gá	 as						
Power	Inters	ct lial	hting a	above&b	elow					Municipal						
Others					SOUTH					Problem (Y/N) No						
Remarks											, ,					
								Appro	ach	Road						
							Last			Explanation of Condition						
Horizontal Alignr	ment						7	7	Ex	Exit ramp SE						
Vertical Alignme							8	8								
	Roadway Width (m) 12.400															
Approach Bump					7	7										
Guardrail (Y/N) Yes								issing	@ gua	ardrail to bride	ge rail	connection @	NW - Bolt in			
Guardrail				4	4		ace	J	3	•	-					
Length (m) 61.000					12	m Long	guardı	rail wit	h flair end @	east.						
Current Standard (Y/N) No					_ W	rong lap	at NE	and S	SE. Missing 2 wrong lap.	splice	bolts at NW.					
Termination Ty		,		TURND	OWN				_ SE	_ io udiili	ay <del>c</del> u (	iu <del>c</del> lU	wioliy iap.			
Drainage							3	3	Er	Erosion along NE wing and slope protection.						
Approach Road	l Gene	eral F	Rating				7	7	+							
			J													

Component   Com						Supers	tructure
Primary Span : WG, 2 Spans, Lengths(m): 34-34, A-Ident Number: A122-02)   Special Feature	Bridge Com	ponent					
Special Feature		_	ans. Leng	ths(m): 34-34.			
Special Feature							,
Type :   Special Feature						X	
Special Feature					I		
Type :   Wearing Surface/Deck Top Detail Ratings   N (%)   1 (%)   2 (%)   3 (%)   Now   0.0   0.0   0.0   Now   0.0   0.0   0.0   Now   0.0   0.0   0.0   Now   0.0   Now   0.0   0.0   Now   0.0   Now   0.0   Now   0.0   Now   0.0   Now   0.0   Now   Now   0.0   Now		ture				X	
Wearing Surface  Deck Top   Detail Ratings     2 (%)   3 (%)							
N (%)		face/Deck Ton	Detail Ra	tinas			
Last   0   0   0   0   0   0   0   0   0	Wouling our				3 (%)		
Now   0.0	Last					0	
Wearing Surface				-			
(Material Type : ACP)         (Thickness(mm) : 50)           Deck Top         N         N           Deck Rideability         8         8           Deck Joints         3         3           Temperature (deg. C)         10         5           (Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))         (Fixed Type : )         5           Gap Size (mm)         Gap Location         10         5           100         E. abut         5         50 mm Dial D. RAINS.           90         W. abut         50 mm Dial D. RAINS.         50 mm Dial D. RAINS.           Curbs/Median         8         8         8           (Curb Type : Standard)         50 mm Dial D. RAINS.           Scaling (Percent Area)         0         8         8           (Type : BRIDGE TUBE; STEEL BRIDGE TUBE)         8         8           Bridge Rail Posts         8         8           (Type : GALVANIZED POST STEEL; GALVANIZED FOST STEEL; GALVANIZE			0.0	0.0			Some long crks-sealed
Chickness(mm) : 50   Deck Top					1		Some long circs-sealed
Deck Top							
Deck Rideability		S(11111) . <b>30</b> )			NI NI	l NI	
Both East and West Abut Joint gland form @ the steel extrusion @ several areas   Temperature (deg. C)	реск тор				IN	IN	
Several areas   Several areas   Several areas   Several areas   Torn completely through   Several areas   Torn completely through   Separate   Several areas   Torn completely through   Separate   Several areas   Torn completely through   Separate   Separate   Several areas   Torn completely through   Separate   Sepa	Deck Rideat	oility			8	8	
Several areas   Several areas   Several areas   Several areas   Torn completely through   Several areas   Torn completely through   Separate   Several areas   Torn completely through   Separate   Several areas   Torn completely through   Separate   Separate   Several areas   Torn completely through   Separate   Sepa	Deck Joints				3	3	Both Fast and West Abut Joint gland form @ the steel extrusion @
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC)    (Fixed Type : )   Gap Size (mm)   Gap Location     100		re (deg. C)	10			<u> </u>	several areas
Fixed Type :				-MALIED TDA	NSEL EX	ETC\\	Torn completely through
Gap Size (mm)			ID (WADO	-WIAULIX, TIXA	MINOI LLX,	LIGI	
100   E. abut   90   W. abut		·		an Logation			1 sheared bolt at NE curb cover plate.
Deck Drainage		(111111)		•			
Deck Drainage							
Drains Clogged (Y/N)         No         DECK DRAINS @ ABUT CORNERS. 50 mm DIA DRAINS.           Curbs/Median         8         8           (Curb Type : Standard)         Vertical cracks.           Scaling (Percent Area)         0           Bridge Rail         8         8           (Type : BRIDGE TUBE;STEEL BRIDGE TUBE)         Bridge Rail Posts         8         8           (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)         Bridge Rail/Posts Coating         7         7           (Type :)         Sidewalk         X         X           Girder/Beam         Cover Plate         X         X           Flange         8         8           Web         8         8           Stiffeners         8         8           Splice         8         8           Weld         8         8	90 VV. abut						
Drains Clogged (Y/N)         No         DECK DRAINS @ ABUT CORNERS. 50 mm DIA DRAINS.           Curbs/Median         8         8           (Curb Type : Standard)         Vertical cracks.           Scaling (Percent Area)         0           Bridge Rail         8         8           (Type : BRIDGE TUBE;STEEL BRIDGE TUBE)         Bridge Rail Posts         8         8           (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)         Bridge Rail/Posts Coating         7         7           (Type :)         Sidewalk         X         X           Girder/Beam         Cover Plate         X         X           Flange         8         8           Web         8         8           Stiffeners         8         8           Splice         8         8           Weld         8         8							
Drains Clogged (Y/N)         No         DECK DRAINS @ ABUT CORNERS. 50 mm DIA DRAINS.           Curbs/Median         8         8           (Curb Type : Standard)         Vertical cracks.           Scaling (Percent Area)         0           Bridge Rail         8         8           (Type : BRIDGE TUBE;STEEL BRIDGE TUBE)         Bridge Rail Posts         8         8           (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)         Bridge Rail/Posts Coating         7         7           (Type :)         Sidewalk         X         X           Girder/Beam         Cover Plate         X         X           Flange         8         8           Web         8         8           Stiffeners         8         8           Splice         8         8           Weld         8         8							
Drains Clogged (Y/N)         No         DECK DRAINS @ ABUT CORNERS. 50 mm DIA DRAINS.           Curbs/Median         8         8           (Curb Type : Standard)         Vertical cracks.           Scaling (Percent Area)         0           Bridge Rail         8         8           (Type : BRIDGE TUBE;STEEL BRIDGE TUBE)         Bridge Rail Posts         8         8           (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)         Bridge Rail/Posts Coating         7         7           (Type :)         Sidewalk         X         X           Girder/Beam         Cover Plate         X         X           Flange         8         8           Web         8         8           Stiffeners         8         8           Splice         8         8           Weld         8         8							
Drains Clogged (Y/N)         No         DECK DRAINS @ ABUT CORNERS. 50 mm DIA DRAINS.           Curbs/Median         8         8           (Curb Type : Standard)         Vertical cracks.           Scaling (Percent Area)         0           Bridge Rail         8         8           (Type : BRIDGE TUBE;STEEL BRIDGE TUBE)         Bridge Rail Posts         8         8           (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)         Bridge Rail/Posts Coating         7         7           (Type :)         Sidewalk         X         X           Girder/Beam         Cover Plate         X         X           Flange         8         8           Web         8         8           Stiffeners         8         8           Splice         8         8           Weld         8         8							
Drains Clogged (Y/N)					4	4	Leaks @ abut joints.   DECK DRAINS @ ABUT CORNERS.
Curb Type : Standard   Scaling (Percent Area)   0	Drains Clo	gged (Y/N)	No			_	
Scaling (Percent Area)         0           Bridge Rail         8         8           (Type: BRIDGE TUBE;STEEL BRIDGE TUBE)         Bridge Rail Posts         8         8           (Type: GALVANIZED POST STEEL;GALVANIZED POST STEEL)         STEEL)         Bridge Rail/Posts Coating         7         7           (Type:)         Sidewalk         X         X         X           Girder/Beam         X         X         X           Cover Plate         X         X         X           Flange         8         8           Web         8         8           Stiffeners         8         8           Splice         8         8           Weld         8         8					8	8	Vertical cracks.
Bridge Rail       8       8         (Type : BRIDGE TUBE;STEEL BRIDGE TUBE)       Bridge Rail Posts         Bridge Rail/Posts Coating       7       7         (Type :)       Tripe :)         Sidewalk       X       X         Girder/Beam       X       X         Cover Plate       X       X         Flange       8       8         Web       8       8         Stiffeners       8       8         Splice       8       8         Weld       8       8							
(Type : BRIDGE TUBE;STEEL BRIDGE TUBE)         Bridge Rail Posts       8       8         (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)         Bridge Rail/Posts Coating       7       7         (Type : )         Sidewalk       X       X         Grider/Beam         Cover Plate       X       X         Flange       8       8         Web       8       8         Stiffeners       8       8         Splice       8       8         Weld       8       8	Scaling (P	ercent Area)	0				
Bridge Rail Posts         8         8           (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)         Steel           Bridge Rail/Posts Coating         7         7           (Type : )         Sidewalk         X         X           Girder/Beam         Cover Plate         X         X           Flange         8         8           Web         8         8           Stiffeners         8         8           Splice         8         8           Weld         8         8	Bridge Rail				8	8	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)         Bridge Rail/Posts Coating       7       7         (Type : )       X       X         Sidewalk       X       X         Girder/Beam         Cover Plate       X       X         Flange       8       8         Web       8       8         Stiffeners       8       8         Splice       8       8         Weld       8       8	(Type : BR	RIDGE TUBE;S	STEEL BR	IDGE TUBE)			
STEEL)           Bridge Rail/Posts Coating         7         7           (Type:)         Sidewalk         X         X           Girder/Beam         Cover Plate         X         X           Flange         8         8           Web         8         8           Stiffeners         8         8           Splice         8         8           Weld         8         8	Bridge Rail F	Posts			8	8	
Bridge Rail/Posts Coating         7         7           (Type:)         Sidewalk         X         X           Girder/Beam           Cover Plate         X         X           Flange         8         8           Web         8         8           Stiffeners         8         8           Splice         8         8           Weld         8         8	(Type : GA STEEL)	LVANIZED PO	OST STEE	EL;GALVANIZI	ED POST		
(Type : )       Sidewalk     X     X       Girder/Beam       Cover Plate     X     X       Flange     8     8       Web     8     8       Stiffeners     8     8       Splice     8     8       Weld     8     8		Posts Coating			7	7	
Sidewalk         X         X           Girder/Beam           Cover Plate         X         X           Flange         8         8           Web         8         8           Stiffeners         8         8           Splice         8         8           Weld         8         8							
Cover Plate         X         X           Flange         8         8           Web         8         8           Stiffeners         8         8           Splice         8         8           Weld         8         8	Sidewalk				Х	X	
Cover Plate         X         X           Flange         8         8           Web         8         8           Stiffeners         8         8           Splice         8         8           Weld         8         8	Girder/Rean	n					
Flange       8       8         Web       8       8         Stiffeners       8       8         Splice       8       8         Weld       8       8					Y	Y	
Web         8         8           Stiffeners         8         8           Splice         8         8           Weld         8         8							-
Stiffeners         8         8           Splice         8         8           Weld         8         8						-	-
Splice         8         8           Weld         8         8							-
Weld 8 8							-
						-	-
Diaphiagins/Closs Frame 8 8		Cross France					
	Diaphragms	Cioss Frame			8	g	

			Supers	tructure
Bridge Component		1		Explanation of Condition
(Primary Span : WG, 2 Spans, Lo	engths(m): 34-34, A-I			·
Paint Condition		Х	Х	Weathering steel
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		8	8	Expansion at abuts.
Temperature (deg. C)	10			
(Expansion Type : REINFORCI TEFLON AND STAINLESS ST	ED NEOPRENE BEAF	RING W	/ITH	
(Fixed Type : )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	LEACHING @ MINOR TRANSVERSE CRACKS
Stains (Percent Area)	3			More at deck exterior.
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		7	7	
			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		8	8	
Wingwalls	Wingwalls			Pigmented at wings. Stained at both backwalls from joint leakage.
Piles		N	N	
Paint/Coating		7	7	
Abutment Stability		8	8	
Scour/Erosion		3	3	0.5x0.5x15m erosion along north side of slope protection.
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles :	6)			
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		Х	Х	
Nose Plate		Х	Х	
Paint/Coating		7	7	Galvanized
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		Х	Х	
Debris (Y/N)	No			

			Subst	ructure					
Bridge Component		Last	Now	Explanation of Condition					
Substructure General Rating			8						
		5	Structu	re Usage					
		Last	Now	Explanation of Condition					
Grade Separation			_						
Road Alignment			5	Yellow curve signs. Chevrons at posted speed of 60km/hr only, alignment is adequate.					
				Some minor undermining @ concrete@ concrete slope protection					
Traffic Safety Features		8	8						
Туре	NJ BARRIERS								
Slope Protection			3	Concrete cast @ slope portection @ top.					
(Type : CONCRETE; CONCRE	ETE)			Pulled away 160mm fromm additional cast concrete @ west 30mm@ east Slope protextion eroded and undermined at north east.					
Bank Stability			5						
Drainage		5	5						
Grade Separation General Rati	ng	5	5						

81588 E-1 Bridge

				Mainten	ance Recommend	ations					
Inspector Recommendations		Year	Inspecto	r Comments		Department Com	ments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL											
GALVANIZE/PAINT BRIDGE RAIL											
RETROFIT BRIDGE RAIL											
SEAL CURBS											
PATCH DECK		2012	Fill voids	at West paving lip.							
SEAL DECK											
OVERLAY DECK											
REPAIR/REPLACE DECK JOINTS		2012	Replace	east and west abut	joint gland.						
RESET/ PAINT BEARINGS					·						
REPAINT SUPERSTRUCTURE											
STRAIGHTEN/REPLACE MEMBERS											
WASHING											
SHOTCRETE REPAIRS											
REPAIR ABUTMENT SCOUR/EROSI	NC	2012	Repair ei	rosion at East slope op both slopes.	e- 0.5x0.5x15. Fill						
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
OTHER ACTION		2012	Clean ba	ckwall staining afte	er seal replacement.						
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No. (%)	ow)	83.3/83.3 Sufficiency Rating (Last			g (Last/Now)	71.6/67.2	Est. Repl. Yr	2064	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection						Department Comments			·		
Maintenance Reviewed By						Date		E	Estimated Total	0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Gar		Roberts			Previous A	us Assistant's Name					
		2013				is Inspection Date 22-Jan-2010					
Inspection Cycle (Default) (months) 21											
Comment											