## Bridge Inspection & Maintenance System (Web 2005)

								Bridge Ir	nspect	tion						
Bridge File Numl	ber	00229	9 -1	Bridge					Form	п Туре			PCS			
Year Built/Year		1973/	/197:	3					Lot N	lo.			2			
Bridge or Town	lomo								Inspector Name			Owen Salav	Owen Salava			
Logotod Ovor	vame				DEE		200	с ст	Inspector Class			BR CLS A				
Located Over					$\mathbf{R}, 0.0, \mathbf{v}$			5-51	Assistant Name							
Localed On	/00r	16A.2	24 K	17.070,	10A.24 L	.17.071			Assis	Assistant Class						
Nater Body CI./	rear								Inspection Date 13			13-Dec-2012	13-Dec-2012			
	ian tian								Data	Entry	Ву		Marcia Chav	/ez		
Legal Land Loca	ution	500 5	02.1	5 53·20	52 KGE 25	14 0040	N4M			Entry	Date		07-Jan-2013	3		
Road Authority	ue		02.1. ta Tr	Transportation (AIT)					Revie	ewer N	lame		John O'Brier	n		
Contract Main A	rea	CMA1	14	ansporta		.,			Revie	ew Da	te		20-Dec-2012	2		
Clear Roadway/	Skew	21/1	5 de	a (RHF	)				Dept	. Revi	ewer N	lame	Andrew Smi	kles		
	onow	4 730	/ 20	)11 ( $\Delta$ )	/				Dept. Review Date		08-Jan-2013	3				
Road Classification RAD-412			412	4-120		F			Follow-Up By							
Detour Length (km) 3			.+ 120													
Allowable Load (	wable Load (t): Single CS1			30 DER		Semi	C	S2 49			Train	C	S3 70		> On Critical Spans >Critical Member	
Design Loading: HS2			)		1								> Primary \$	Span		
Doolgh Louding. 11020						P	ostina Ir	nforma	ation							
Required Load Posting (t)			Single					5	Semi				Truc	k Train		
Posted Loading	Posted Loading (t)		Single					Semi					Truc	Truck Train		
Posted:	Lane	e EB At Junct		tion (Y/N	(Y/N) No		In Advance (Y/N)		No	At Bridge (Y/N) No		No				
Posted:	Lane	WB At Junction (		tion (Y/N	۷)	No	In Advance (		Y/N)	No	At Bridge (Y/N) No		No			
Remarks Posting not required.				,					. 1		1		1			
Hazard Marker At Bridge (Y/N) No																
Remarks Not require			uired.													
Other Sign Types Inf			Information, Max Speed Limit 50km/					/hr								
o alor olgar typeo						Ui	tilities (L	Locate	ed at)							
Utility Attachments																
Telephone Conduit at North curb.																
Power 4 wires OH 15 m South of c/l.							cipal		Stree	et lighting both	sides	6.				
Others Conduit @ SE ditch.						Prob	lem (Y	′/N)	No							
Remarks	Remarks Cable exposed and conduit failed on East headslope.															
								Approa	ich Ro	ad						
			Li	ast	Now	Explanation of Condition										
Horizontal Alignr	nent						6	6	Superelevated to accommodate curve.							
Vertical Alignment							8	8	Width	Town intersections both sides. Width varies due to turning lane on bridge						
Roadway Width	(m)			21.000						woun varies due to turning lane on bridge.						
Approach Bump							6	6								
Guardrail (Y/N)				Yes												
Guardrail							5	5	Lacki	ing str	ong p	osts	@ all corners.		th due to show	1
Length (m)				19.000					Not t	hrie be	eam.			y iong		
Current Standa	ard (Y/	′N)		No												
Termination Ty	/pe			TURNE	D DOWI	N										
Drainage							5	5	(Wate abutr	er @ 3 ment s	SW co seats.	rners 02.08	s of both lanes 3.28).	pond	ling & leaking o	down onto
Approach Road	Gene	eral Ra	ating	I			6	6								

Alberta Transportation

						Supers	structure				
Bridge Component I					Last	Now	Explanation of Condition				
(Primary Spa	n : HCO, 3 Sp	ans, L	engths	(m): 10.1-10.1	l <b>-10.1</b> , /	A-Iden	t Number: )				
Special Feat	ures										
Special Featu	ire					X	All three spans have girder legs, shotcreted to rebuild spalled areas.				
(Type : )											
Special Feature						X					
(Type : )											
Wearing Surfa	ace/Deck Top	Detail	Ratings	5							
	N (%)	1 (%)		2 (%)	3 (%)		Snow/ice covered.				
Last	100		0	0		0					
Now	50.0	0	).0	0.0	0	.0					
Wearing Surf	ace			·	N	5	(4 longitudinal cracks / lane on span 1 & 3 between girders, 5				
(Material Ty	/pe : ACP - C	ONVEN		L CHIP SEAL		-)	longitudinal cracks / lane on span 2. 05Feb2008) - Chipsealed over				
(Thickness(mm) : <b>50</b> )						/	- cracks.				
Lateral Connection Problem Yes											
(Y/N)						-					
Deck Top					N	N					
Doold Distant	lity (				7	7					
	y										
Deck Joints					N	N	(Abut joints leaking at NW and SE abut joints buffer angles. No pier				
Bump (Y/N)			No				joints. 05Feb2008). Paved over.				
Deck Drainac	le				N	4	Water leaking down @ W abut at the low end of each lane and btwn				
Drains Clogged (Y/N) No							girders @ both abuts; causing gully erosion scars; stained by leakage.				
Curbs/Median					N	N	(200 x 400 x 75mm chip out of NE corner. 75% of lift pockets in				
(Curb Type : <b>Standard</b> )							curbs need grouting. 04/05/17). Snow covered.				
Scaling (Pe	rcent Area)		2				Show covered.				
Bridge Rail	,				N	N	Double laver - snow covered.				
(Type : GAI	LVANIZED ST	reel F		EAM)							
Bridge Rail P	osts				7	N					
(Type : GALVANIZED POST STEEL;GALVANIZED				ALVANIZED	POST						
SIEEL) Bridge Bail/Posts Coating					6	N					
(Type · GA					U						
Sidewalk					Y	Y					
Sidewalk											
Girder Detail	Ratings										
	N (count)	1 (cou	unt)	2 (count)	3 (cou	int)					
Last	0		0	0		0					
Now	0		0	0		0					
Girders					4	4					
Last Complet	e Inspection D	Date	13-Dec	-2012							
Cracking (Y	′/N)		Yes				(3 int - hairline shear cracks. 02/08/28).				
Spalling (Pe	ercent Area)		1				50% of legs repaired with shotcrete. Still some leakage between units from cracks in deck above				
Lift or Connec Grouted (Y/N	ctor Pocket		Yes				2 girder legs have air drill spalls. 4 interior girders rated 4.				
(Number Of C	, Girders : <b>72</b> )						4 curbs and 2 interiors rated 5 due to longitudinal cracks. S2G1 & S3G1 spalled midspan. Previous report says curb lift pocket not grouted - not seen this time.				
Span Alignm	ent Problem	s					- Tot seen this time.				
Vertical (Y/	N)		No								
Horizontal	Y/N)		No								
Superstruct	Iro Concrel D	oting			4	4					
Superstructi	ire General R	ating			4	4					

Alberta Transportation

1		1			ructure		
Bridge Com	ponent			Last	Now	Explanation of Condition	
Abutments							
(Extended	Backwall Piles	s (Y/N) : <b>N</b> )				_	
(Extended	Backwall Piles	s Spacing(mm)	):)				
(Total Numbe	er of Caps/Co	rbels : <b>1:1</b> )				_	
Bearing Seat	s/Caps/Corbe	ls Detail Ratin	gs				
	N (count)	1 (count)	2 (count)	3 (cou	unt)		
Last	0	0	0		0		
Now	0	0	0		0		
Bearing Seat	s/Caps/Corbe	els		4	4	Water leaking onto W abut, seat is stained.	
(Type : <b>CO</b>	NCRETE)					Concrete deteriorated @ E abut seat.	
(Depth(mm	):)					Snotcrete on vv breastwall delaminated - minor.	
(Width(mm	):)						
Backwalls/Br	eastwalls			N	N		
Greatest H	eight (m)	1.00					
Wingwalls	<b>.</b>			6	N	Snow covered.	
(Total Number of Bearing Piles : 0:0)							
Piles Detail Ratings							
	N (count) 1 (count) 2 (count)						
Last	<b>st</b> 100 0 0				0		
Now	<b>100 0 0</b>						
Piles					N	Buried	
Paint/Coating					Х		
Abutment Stability					7		
Scour/Erosion					4	Water draining under NW abut cap forming a gully which is further exacerbated by deck drain above. Both hslp have scour @ toe. W hslp has a gully (photo).	
Piers/Bents							
(Type : PIER-COLUMN)						(Max deck to S/B 6.15m @ North curb and 5.45m at South curb.	
(Total Numbe	er of Caps/Co	rbels : <b>1:1</b> )				-	
Bearing Seat	s/Caps/Corbe	ls Detail Rating	gs			-	
	N (count)	1 (count)	2 (count)	3 (cou	unt)	-	
Last	0	0	0		0	-	
Now	0 0 0 0				0	S end of P2 spall exposing stirrup.	
Bearing Seat	s/Caps/Corbe	els		4	4		
(Type : <b>CO</b>	NCRETE)					-	
(Depth(mm	):)					-	
(Width(mm	):)						
(Total Numbe	er of Bearing I	Piles : <b>12:12</b> )				-	
Piles Detail F	Ratings					-	
	N (count)	1 (count)	2 (count)	3 (cou	unt)	-	
Last	0	0	0		0	-	
Now	0	0	0		0	-	
Pier Shaft/Pil	es			7	7	-	
Greatest H	eight (m)	4.00			_		
Bracing/Strut	s/Sheathing			X	X		
Nose Plate				X	Х		
Paint/Coating	)			4	4	Active corrosion 0.3 m to 0.6 m above	
(Colour De	scription : BL	UE)				ground, peeling to 1.5 m above ground. Colour=Green.	
(Colour Co	de : <b>15182</b> )						

Alberta Transportation

			Subst	ructure				
Bridge Component		Last	Now	Explanation of Condition				
Pier Stability		7	7					
Scour		5	5					
Debris (Y/N)	Yes			Minor beaver dam under bridge & old piles.				
Substructure General Rating		4	4					
		S	Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel								
(U/S Direction : S)				Bend in river immediately U/S of bridge.				
(D/S Direction : N)								
Alignment			5					
Bank Stability		5	5	Bend at D/S & NE bank is near vertical, 50m away from bridge.				
HWM (m below Top of Curb)				HWM not visible.				
Drift (Y/N) Yes				Small beaver dam under bridge. Old piles in channel.				
Slope Protection		5	5					
(Type : NATURAL; NATURAL	)							
Guidebank/Spurs			X					
Adequacy of Opening			7					
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2:	NONE)							
Channel General Rating	,	5	5					

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Inspector Recommendations	Year	Inspector Comments		Department Com	ments	<b></b>	arget Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL									
SEAL CURBS	2013	Carried forward. (if not done already)							
PATCH DECK									
OVERLAY DECK									
STRAIGHTEN/REPLACE MEMBERS									
WASHING									
SHOTCRETE REPAIRS									
CORE TIMBER CAPS/CORBELS									
REPAIR/REPLACE TIMBER CAPS									
REPAIR ABUTMENT SCOUR/EROSIO	N 2013	10m3 pitrun at W hslp.							
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL STRUTS									
OTHER ACTION	2013	Grout 9 lift pockets (curbs). (Carried	forward)						
OTHER ACTION	2013	Advise utilities of exposed cable.							
OTHER ACTION	2013	Remove old piles, sheet piling & bea	aver dam.						
OTHER ACTION	2013	Patch with concrete on south end P2	2.						
OTHER ACTION	2013	Seal seats & caps.							
OTHER ACTION	2013	Touch-up pile paint.							
OTHER ACTION	2013	Add TT posts at 4 corners & upgrade length to meet std, if not yet done.	le guardrail						
OTHER ACTION									
Structural Condition Rating (Last/Nov (%)	v) 44.4/44	.4 Sufficiency Rating (Last/I (%)	'Now) 5:	9.8/59.5	Est. Repl. Yr	2019	Maint. Req	d. (Y/N)	/es
Special Monitor longit. cracks Comments for Next Inspection	on interior gir	ders.		Department Comments					
Maintenance Reviewed By				Date		Est	timated Total	0	
Proposed Long-Term Strategy	2005.01.10 Bri	dge should be good until 2015. Consid	der gravity flo	oe epoxy for crach	ks, repair deck dela	minations a	s required and	d chip coat.	
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	<b>Dwen Salava</b>		Previous A	ssistant's Name					
Next Inspection Date	3-Sep-2014		Previous In	spection Date	16-Dec-2010				
Inspection Cycle (Default) (months)	Σ								
Comment									

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			Maintenance Recommend	dations				
Inspector Recommendations	Yea	ar Inspecto	or Comments	Department C	Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL								
SEAL CURBS	201	3 Carried	forward.(if not done already)	On 4 year brid	dge sealing program			
PATCH DECK								
OVERLAY DECK								
STRAIGHTEN/REPLACE MEMBERS								
WASHING								
SHOTCRETE REPAIRS								
CORE TIMBER CAPS/CORBELS								
REPAIR/REPLACE TIMBER CAPS								_
REPAIR ABUTMENT SCOUR/EROSIO	N 201	13 10m3 pi	itrun at W hslp.	Defer				_
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								_
INSTALL STRUTS								_
OTHER ACTION	201	I3 Grout 9	lift pockets (curbs). (Carried forward)	Completed 20	)12			_
OTHER ACTION	201	13 Advise	utilities of exposed cable.	Defer				_
OTHER ACTION	201	13 Remove	e old piles, sheet piling & beaver dam.	Defer				_
OTHER ACTION	201	13 Patch w	vith concrete on south end P2.	Completed 20	)12			_
OTHER ACTION	201	13 Seal sea	ats & caps.	Next time on	site			
OTHER ACTION	201	13 Touch-u	up pile paint.	Defer				
OTHER ACTION	201	I3 Add TT guardra	posts at 4 corners & upgrade il length to meet std, if not yet done.	Completed 20	)12			
OTHER ACTION								
Structural Condition Rating (Last/Now) (%)		4/44.4	Sufficiency Rating (Last/Now) (%)	59.8/59.5	Est. Repl. Yr 2019	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection	on interio	or girders.		Department Comments	Currently programmed to be	replaced in 202	22.	
Maintenance Reviewed By A	ndrew Sr	nikles		Date	21-Jan-2013	Estimated Tota	1 0	
Proposed Long-Term Strategy 20	005.01.10	0 Bridge shou	ld be good until 2015. Consider gravity	y floe epoxy for	cracks, repair deck delaminat	ions as require	d and chip c	oat.
On 3-Year Program (Y/N)								
Proposed Action								

Bridge Inspection & Maintenance System (Web 2005)

Previous Inspector's Name	Owen Salava	Previous Assistant's Name	
Next Inspection Date	13-Sep-2014	Previous Inspection Date	16-Dec-2010
Inspection Cycle (Default) (months)	21		
Comment			