								Bridge I	nsne	ction							
Bridge File Num	ber	713	15 -1	Bridge				Jiiuge ii		Form Type			TH				
Year Built/Year			6/195						1	Lot No.			1				
Supstr										pector N	lame		Garry Roberts				
Bridge or Town Name FORT ASS				SSINIB					Inspector Class			BR CLS A					
Located Over ATHABAS			SCA RIVER, 8.11, WATERCRS-ST					Assistant Name			Randy Bredo						
Located On 33:08 C1			34.335					Assistant Class			BR CLS A						
Water Body Cl./	Year									pection I			07-Jun-2011				
Navigabil. Cl./Ye	ear								Data Entry By			Theresa Lac					
Legal Land Loca	ation	NE	SEC:	35 TWP 61 RGE 6 W5M					Data Entry Date			16-Jan-2012					
Longitude, Latitu	ıde	-114	4:47:0	5, 54:19	5, 54:19:14					Reviewer Name			Eric Carcoux				
Road Authority		Alb	erta T	ransporta	ation (A	IT)				view Dat			15-Jan-2012				
Contract Main. A	Area	СМ	A10							pt. Revie		Name					
Clear Roadway/	Skew	7.3	/							pt. Revie			18-Jan-2012				
AADT/Year		1,47	70 / 20	010 (A)						low-Up I							
Road Classificat	ion	RAI	U-210	-110						.с ср .	-,						
Detour Length (I	km)	95															
Allowable Load	(t): Sin	gle	H 32	: INGER		Semi		S 56			Train		3 73		> On Critic	al Spai	ns
Design Loading:			HS2				FI	LOOR B	EAW			L2	U3		>Critical M		
Design Loading.			ПОZ	U			Þ	osting l	nforr	mation					> Primary S	эрап	
Required Vert. C	learar	nce F	Postino	n (m)				osung n	ШСЛ	пашоп							
Posted Vertical				9 ()	Yes												
Posted: Lane	WB			idge (m)		In Adv	ance	(Y/N)	Yes	Lane	ЕВ		n Bridge (m)	5.8	In Advance	(Y/N)	Yes
Remarks				e is 5.92			<u> </u>	(1/11)	100	Lario			m Bridge (m)	0.0	minavanoo	(1/11)	1.00
Required Load F				0.02	Single					Semi				Truck Train			
Posted Loading		(1)			Single					Semi			Truck Train				
Posted:	Lane		SB			ction ()	//NI)	No			Advance (Y/N)		No			No	
Posted:	Lane		NB		At Junction (Y/N) At Junction (Y/N)		No		In Adva		·			At Bridge (Y/N) No			
Remarks	Not re				7tt odriotion (1714)			110		minave	21100	(1/14)	110	/ (C D)	nago (1/14)	110	
Hazard Marker				Yes													
Remarks	tt Brid;	90 ( 1	711)	SE Mar	ker is n	ot secu	re.										
Other Sign Type	 S			-				Bridge.	70 km/hr, Danger Overhead Lines (at U/S & D/S channels).								
o microsign type					,	, , , , ,		tilities (					(0.00				
Utility Attachme	nts T	ELE	PHON	IE UTILI	TIES-PI	HONE I		·									
Telephone	North	r/w o	on bot	tom choi	rd 2 cor	duit.			Ga	Gas Crossing 250n			sing 250m Ea	50m East.			
Power	3 lines	s No	rth r/w	/ 20m fro	m bridg	e. New	pow	er poles	Mu	Municipal							
				ines Nor					Problem (Y/N) Yes								
Others	Utility corros	Con sion.	duit o	n North E	Bottom	Chord I	d has severe										
Remarks			orrode	d & disco	onnecte	d at a	coupl	e of spot	ts.								
								Approa		Road							
							Last	Now	Exp	olanatio	n of	Condi	tion				
Horizontal Aligni	ment						6	6	Red	Reduced speed 70 km/hr, limited visibility around curve at West				st end.			
Vertical Alignme	Vertical Alignment					7	7		•								
Pandway Width (m) 10 200																	
Roadway Width (m) 10.300				7	6												
Approach Bump			Yes	7		0	1 ~	missing eplica halt at SE and 1 halt sulled through at SE		PE							
Guardrail (Y/N) Guardrail				162			1	4		missing splice bolt at SE and 1 bolt pulled through at S NW.  Not thrie beam		JE.					
				47.000			4	4	Not								
Length (m)	ard (V	'NI'		47.000 No					1,401	. unic De	ulli						
Current Stand	•	IN)		1	Dows												
Termination Ty	ype			Turned	DOWII		6	7									
Drainage							O	′									

71315 -1 Bridge

Approach Road											
				Last		Explanation of Condition					
Approach Ro	ad General I	Rating		6	6						
		<b>J</b>									
					<u> </u>	structure					
Bridge Comp						Explanation of Condition					
		ns, Lengths(	m): 76.2-61-61	-61, A-	Ident N	lumber: A0241-01;A0241-02;A0241-03;A0241-04)					
Special Feat											
Special Featu	re				X						
(Type:)					V						
Special Featu	re				X						
(Type:)	naa/Daak Tara	Datail Datina									
Wearing Surfa	•			2 (0/.)		Sn1 20m2 Sn2 5m2 Sn2 6m2 Sn4 11m2					
Last	N (%)	1 (%)	2 (%)	3 (%)	5	Sp1-20m2, Sp2-5m2,Sp3-6m2-Sp4-11m2 All approx areas of concrete surface delams.					
Now	0.0	0.0	0.0		0.0						
Wearing Surfa			0.0	3	3	Chippend on anavy on congrete Legal delam/granking in S4					
			IP SEAL COA		Chipseal on epoxy on concrete. Local delam/cracking in S4. Transverse cracks reflecting through seal coat. Some cracks have been routed and repaired.  1 post spall with exposed rebar at Sp2-3-4.						
` .	kness(mm):)		III SLAL COA	1)							
(Plank Widt	, , ,					T poot opan min oxposed robal at op2 o 1.					
Deck Rideabi	· / /			5	4	Localized pot holes.					
Deck Mideabl	iity			<u> </u>		Localized pot noies.					
Deck Joints				3	3	Silicone seals pulled & torn at A1, P2, A2. All floorbeam joints have					
Temperatur	e (deg. C)	17				had sealant placed along them, sealant has cracked.					
(Expansion	Type : <b>GLAN</b>	D (WABO-M	AUER, TRANS	FLEX,	ETC))	NW curb cover plate is pulled up 100mm.					
(Fixed Type	:)					P1-85mm, P2-90mm,P3-75mm.					
Gap Size (n	nm)	Gap	Location								
85		Wes	t abutment - A1								
90		East	abutment - A2								
Curbs/Wheel	Guards			3	3	Scaling along bottom edges up to 25mm deep. Several curb crack/scalling/spalling @ rail posts with visible rebar.					
(Curb Type	: Standard)					crack/scalling/spalling @ rail posts with visible rebar.					
(Type : COI											
	nt(mm) : <b>250</b> )										
(Width(mm)	: 260)										
Bridge Rail				4	4	Several cracked welds in rail. Concrete base spalled affecting post anchorage at 6 locations.					
` • •	VANIZED S	TEEL BRIDG	E TUBE)			1 post A/B not fully engaged Sp3 East side.					
Bridge Rail Po				3	3	Rust @ stitch welds.					
` ','	ST STEEL;PC	OST STEEL)									
Bridge Rail/Po				4	4						
(Type : PAI	N ľ)										
Sidewalk				X	X						

					Supers	structure		
Bridge Comp	ponent			Last	Now	Explanation of Condition		
		ns, Lengths	(m): 76.2-61-6	1-61, A-	Ident N	lumber: A0241-01;A0241-02;A0241-03;A0241-04)		
Wide Load D	amage (Y/N)	Yes				No new high load damage. Minor nicks,notches, slivers and		
High Load Da	amage (Y/N)	Yes				delamination documented on UT report. Some rough holes. See UT 2011 for details.		
Top Chord				7	7			
Batter Posts				5	5	Both hanger bolts broken at bottom laterals of Sp1-bay1 and Sp4-bay11 and 12.		
Sway Bracing	gs			7	4	S2U1U1-10x350 dent @ top and bottom flange. S3U1U1-		
Diagonals					5	20x500mm dent to bottom flange.  Both end gussets with 2 open holes.		
Verticals				7	5			
Portals					5			
Connections				5	4			
Floor Beams				5	5			
Bottom Chord	d			5	5			
(No. of String	gers : <b>240;Nul</b>	I;Null;Null)						
Stringer Deta	il Ratings							
	N (count)	1 (count)	2 (count)	3 (cou	unt)			
Last						_		
Now								
Stringers				5	5			
(Type : STE	•							
(Width(mm)	· · · · · ·							
(Depth(mm	· · · · · · · · · · · · · · · · · · ·							
(Spacing(m								
Paint Condition				4	3	Protected & splash zone painted in 1994. Floor system corroding under joints and at floor beams.		
(Colour De	· · · · · · · · · · · · · · · · · · ·					Green. (2 shades)		
(Colour Co						Heavy corrosion at top flanges of floor beams and bottom flange of		
Touchup R	equired (Y/N)	No				exterior stringers.		
Bearings				5	5	Several roller nests twisted between 10 to 25mm. S4L12W broken		
Temperatu	re (deg. C)	17				shoulder plate.		
(Expansion BEARING)		& DOME BE	ARING;ROLL	ER NES	ST	Exp. at piers.		
(Fixed Type	e : <b>DISC &amp; D</b> C	ME BEARIN	IG)					
Functioning	g (Y/N)	Yes						
Sub Deck/De	eck Underside			4	4	Dark staining throughout deck, transverse cracking & spalls at		
(Material Ty	ype : CONCR	ETE)				various locations. Salt damage at floor beams, exposed rebar and fallen concrete. Floor beam locations and propagating to mid decks.		
(Plank Thic	kness(mm):	150)						
(Plank Wid	th(mm) : )							
Defects (Pe	ercent Area)	20						
Span Alignm	nent Problem	s						
Vertical (Y/	N)	No						
Horizontal (	(Y/N)	No						
Superstruct	ure General F	Rating		3	4	Bridge rail posts with anchorage loss governing.		
					Subst	ructure		
Bridge Com	ponent			Last	Now	Explanation of Condition		
Abutments								
	Backwall Piles	. , ,				Cast in concrete.		
(Extended	Backwall Piles	s Spacing(mn	n):)					

					Subst	ructure			
Bridge Comp	nonent			Last	Now	Explanation of Condition			
(Total Number		rhels · <b>1·1</b> )		Last	INOW	Explanation of condition			
		els Detail Ratir	nas						
	N (count)	1 (count)	2 (count)	3 (cou	unt)				
Last	0	0	0	0					
Now									
Bearing Seat	Bearing Seats/Caps/Corbels								
(Type : CONCRETE)									
(Depth(mm):)									
(Width(mm)									
Backwalls/Bro	eastwalls			6	6				
Greatest He	eight (m)	1.60							
Wingwalls				4	5	Spalling on roadway sides, both ends.			
(Total Number	er of Bearing	Piles : <b>0:0</b> )							
Piles Detail R	atings								
	N (count)	1 (count)	2 (count)	3 (cou	unt)				
Last	100	0	0		0				
Now	1	0	0		0				
Piles				N	N				
Paint/Coating					X				
Abutment Stability				7	7				
Scour/Erosion					6	Minor gullies at West headslope.			
Piers/Bents									
(Type : PIE	R-SOLID)					Piers have scaling at the top and delam cracks.			
(Total Numbe		orbels : 1:1:1)							
_	•	els Detail Ratir	ngs			P2 West vertical diagonal cracking with staining @ corner of bearing pedestal. P1 and P3 with similar condition but are repaired with CIP			
	N (count)	1 (count)	2 (count)	3 (cou	unt)	sheat block cast to face of pedestal.			
Last		0	0		0				
Now					1				
Bearing Seat	s/Caps/Corbe	els		4	3				
(Type : CO	NCRETE)								
(Total Number	er of Bearing	Piles : <b>0:0:0</b> )							
Piles Detail R									
	N (count)	1 (count)	2 (count)	3 (count)					
Last	100	0	0		0				
Now					_	-			
Pier Shaft/Pil				5	5				
Greatest He				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V				
Bracing/Strut	s/Sheathing			X	X				
Nose Plate				6	6				
Paint/Coating	)			Х	4	Tight corrosion at nose plates.			
(Colour Des	scription:)								
(Colour Cod	de:)								
Pier Stability				7	7				
Scour				N	N	Deep water			
Debris (Y/N)		Yes				Drift pile along East bank and below span 3.			

		ructure						
Bridge Component		Last	Now	Explanation of Condition				
Substructure General Rating			3	(AIT NC Region contacted June 4/07. Agreed to increase monitoring of P2W pedestal. 01/June/2007)				
		s	tructu	re Usage				
		Last	Now	Explanation of Condition				
Channel								
(U/S Direction: W)			Flows along West bank.					
(D/S Direction : E)								
Alignment			7					
Bank Stability			6	Sloughing along West bank downstream.				
HWM (m below Top of Curb)				Water to deck 9.70m-14-June-2006				
Drift (Y/N)	Yes							
Slope Protection		7	6	Rock along North bank only.				
(Type: RIP RAP; RIP RAP)								
Guidebank/Spurs		7	7					
Adequacy of Opening			8					
(Fish Compensation Measure 1	NONE)							
(Fish Compensation Measure 2:	NONE)							
Channel General Rating		7	6					

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		Maintenance Recommend	ations			
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat a
REPAIR/REPLACE BRIDGE RAIL	2013	Replace bridgerails with PL3 double tube on new CIP concrete curbs.				
RETROFIT BRIDGE RAIL						
SEAL CURBS	2013	Patch spalls/cracks. Post anchors.				
PATCH DECK	2012	Patch deck top potholes/delamsapprox 40m2				
SEAL DECK						
OVERLAY DECK	2013	New deck or thick overlay with neoprene waterstop & caulking above each floor beam. At next major rehab.				
REPLACE STRIP DECK						
REPLACE SUB DECK	2013	New deck or thick overlay at next major rehab.				
RESET/ PAINT BEARINGS	2013	Replace bearings with next major rehab with teflon/ss/neoprene and pull spans back to correct position.				
REPAINT SUPERSTRUCTURE	2013	Floor system.				
STRAIGHTEN/REPLACE MEMBERS	2013	Heat straighten 6 members, repair others. Replace 2 hanger bolts and add sideplates @ S4-L0U1E. Replace top clips @ S1U2L2E and S4U2L2E. See UT 2007 report for details.				
WASHING		·				
SHOTCRETE REPAIRS						
CORE TIMBER CAPS/CORBELS						
REPAIR/REPLACE TIMBER CAPS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2013	Repair pier 2W bearing pedestal with additional CIP concrete block.				
OTHER ACTION	2013	Install missing splice bolts in NW guardrail (8); upgrade guardrails to meet standard. Remove windrows.				
OTHER ACTION	2012	Advise Telus to replace corroded conduits.				
OTHER ACTION	2013	Replace type 1 strip seals with neoprene and replace missing coverplate bolts.				
OTHER ACTION	2013	Replace joint sealant, replace joints at next major rehab.				
OTHER ACTION	2013	Replace hanger bolts Sp1-bay 1 and Span 4.				
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Comment