							Bridge	Inspe	ection							
Bridge File Number 78814 -1 Bridge								For	т Туре	TH PCS						
Year Built/Year								Lot	Lot No.			1				
Supstr								Ins	Inspector Name			Dave Lam				
Bridge or Town Name BIG VALLEY								Ins	Inspector Class			BR CLS A				
Located Over		RED DE	ER RIVE	R, 3, WA	TERC	RS-S	ST	Ass	Assistant Name							
Located On		590:04 (20.267	•				Ass	sistant C	Class						
Water Body CI./	Year							Ins	pection	Date		13-Jul-2011				
Navigabil. Cl./Ye	ear								ta Entry			Marcia Chav	ez			
Legal Land Loca	ation	NW SEC	21 TWP	35 RGE	21 W	4M			ta Entry			31-Aug-2011	1			
Longitude, Latitu	ıde	-112:56:	55, 52:01	:31					viewer N			John O'Brien				
Road Authority		Alberta -	Transport:	ation (Al	Τ)				view Da			28-Jul-2011				
Contract Main. A	Area	CMA20							pt. Revie		Jame	Chris Black				
Clear Roadway/	Skew	5.6 /							pt. Revie			01-Sep-2011				
AADT/Year		800 / 20	10 (A)						low-Up			01 OCP 201				
Road Classificat	ion	RCU-20	9-110					7101	iow-op	Бу						
Detour Length (F	km)	40														
Allowable Load	(t): Sin	igle CS	1 28		Semi	С	S2 49			Train		3 65		> On Critical Spans		าร
											ST	RINGER		>Critical M		
Design Loading:		HS	25											> Primary	Span	•
						Р	osting	Infori	mation							
Required Vert. C																
Posted Vertical				Yes									1			
Posted: Lane	EB		ridge (m)	4.6	In Adva	ance	(Y/N)	Yes	Lane	WB	0	n Bridge (m)	4.6	In Advance	(Y/N)	Yes
Remarks	_	measure	ed.	1					1				I		I	
Required Load F	Posting	(t)		Single					Semi			Truck Train				
Posted Loading	(t)			Single					Semi			Truck Train				
Posted:	Lane	EB		At Junc	At Junction (Y/N)		No		In Adva	ance (Y/N)		No	At Br	At Bridge (Y/N)		
Posted:	Lane	WB		At Junc	tion (Y	//N) No			In Advance (Y/N)		Y/N)	No	At Br	idge (Y/N)	No	
Remarks	Signe	d for max	. 1 truck	on bridge	e. Loca	ted a	away fro	m bri	dge end	ls.						
Hazard Marker A	At Brid	ge (Y/N)	Yes													
Remarks																
Other Sign Type	:S			oncoming on Bridge		c on I	bridge,	narro	w bridge	e, 9% (grade,	, check brake	s, 75k	ph curve ahea	ad. Max	k.1
				9		U	tilities (Loca	ted at)							
Utility Attachmer	nts															
Telephone	In r/w	to South.						Ga	 S							
Power								Mu	nicipal							
Others									blem (Y	′/N)	No					
Remarks									`	,						
							Appro	ach F	Road							
						Last	Now	Exp	olanatio	n of C	ondi	tion				
Horizontal Aligni	ment					3	3	"S"	curves	to We			blind (curve; signage	in pla	ce.
Vertical Alignme	nt					3	3	9%	grades							
Roadway Width (m) 10.000						AC	P transi	tion go	od at	E end.						
Approach Bump				5	4	Set	ttled at b	ooth ap	proac	ches, worst at	SE (ohoto).				
Guardrail (Y/N) Yes						Acc	cident da	amade	to S\	N approach ra	ail, da	maging 3 pos	ts & 3			
Guardrail				4	6	flex	beam -	(photo	o.) and	d 4 splice bolt	s (pho	oto)				
Length (m) 49.400																
Current Standard (Y/N) Yes																
				N												
Drainage	Termination Type TURNED DOWN Drainage					7	4	Rui	Run-off creating erosion gullies at hslps.							
Approach Road	d Gene	eral Ratin	g			3	3									
T-F- Sacritical Collection (Collection)																

					Supers	tructure
Bridge Comp	onent			Last		Explanation of Condition
(Primary Span	n : TH, 4 Spar	ns, Lengths(n	n): 8.5-76.2-76	5.2-8.5,	A-Ider	nt Number: A0139-03;A0139-04)
Special Feat	ures					
Special Featu	ıre				X	
(Type:)						
Special Featu	ire				X	
(Type :)						
Wearing Surfa	ace/Deck Top	Detail Ratings	S			
	N (%)	1 (%)	2 (%)	3 (%)		Loose EKI wood, 2 sections split.
Last	0	0	0	1	10	
Now	0.0	0.0	0.0	10	0.0	
Wearing Surfa	ace/Deck Top			3	3	Ekki wood flex under heavy traffic working the lag screws.
(Material Ty	pe : EKKI W	OOD)				Strip deck not tight to WG. Split missing section S2 200x50x4500.
(Plank Thic	kness(mm) : 5	i0)				Loose end with no lag screws.
(Plank Widt	h(mm) : 200)					
Deck Rideabi	lity			6	6	
Deck Joints				Х	X	
Temperatur	e (deg. C)	20				
(Expansion	Type:)					
(Fixed Type	e:)	-				
Gap Size (n	nm)	Gap L	ocation			
						-
Curbs/Wheel	Guards			4	6	
	: Standard)					
	EATED TIMBE	ER)				
(Thickness(,				
(Width(mm)	•					
Bridge Rail	,			4	7	Unconnected between S3 & S4.
	LVANIZED ST	EEL BRIDGE	TUBE)			
Bridge Rail Po	osts/Blocking			7	7	
	ST STEEL;PO	ST STEEL)				
Bridge Rail/Po	osts Coating			7	7	Green painted STL bracket, rust spots in roughout.
(Type : GAI	_VANIZED)					Rail galvanized, post painted.
Sidewalk				Х	X	

							tructure					
Bridge Comp							Explanation of Condition					
(Primary Spar	n : TH, 4 Spa ı	ns, Ler	ngths(n	n): 8.5-76.2-76	.2-8.5,	A-Iden	t Number: A0139-03;A0139-04)					
Wide Load Da	amage (Y/N)		Yes				All 4 portals have accident damage, 2 severe.					
High Load Da	mage (Y/N)		Yes				40mm dent U11L10N span 2. (Crushed section at S2U1U1. 14Jul2009). Not accessible.					
Top Chord					7	7	(insuff. thread @ most bolted connections (photo) - 2006). Collision damage at portals and sway braces.					
Batter Posts					5	5	Rusting					
Sway Bracings						4	Corrosion heave. Open hole @ U11L11N span 2 & wide load dent @ eye level.					
Diagonals						5	Missing angle bracket & bolts at U11S S2 (photo).					
Verticals						5	-					
Portals					3	N	-					
Connections					4	4	-					
Floor Beams					7	7	-					
Bottom Chord					6	6						
(No. of String)										
Stringer Detai	_	T .		l								
	N (count)	1 (cou	unt)	2 (count)	3 (cou	unt)						
Last												
Now					5							
Stringers						5						
(Type : STE												
(Width(mm)												
(Depth(mm)												
(Spacing(m							000/ 6 :1 1: 1 1 500/ : 6 00/ : 4					
Paint Condition					3	3	20% failed in splash zone, 50% in floor & 2% in top area.					
(Colour Des	· · · · · · · · · · · · · · · · · · ·											
(Colour Cod			Vaa									
	equired (Y/N)		Yes		0		<u> </u>					
Bearings	·- (-l: O)		00		3	3	Exp - end piers. Fix - center pier - pier tops should be cleaned.					
Temperatur			20 ST DE /	\DINC\			(S2 NW & SW brgs have roller nests twisted up to 20mm.					
	Type : ROLL : SLIDING P			ARING)			S3 is jammed. 14Jul2009). E pier N end truss bearing spalled compromising bearing stability					
_ `		Í					(photo).					
Functioning	'		No		0		(D.					
Sub Deck/De		D TIME	DED)		3	3	(Punchout of subdeck @ span 3 E. end (photo). 14Jul2009). Signif. staining on underside, 20% deck area flex under truck load.					
	/pe:TREATE		BEK)				S3 split subdeck plank.					
	kness(mm) : 1	00)					(Loose timber clips. 14Jul2009). Not accessible.					
`	h(mm) : 300)		2									
Defects (Pe			2									
Vertical (Y/I			No									
Horizontal (•		No									
	,		INO		3	3						
Superstructu	ire General K	ating			3	3						
						Supers	tructure					
Bridge Comp	onent				Last	Now	Explanation of Condition					
(Secondary S	pan : SM)											
Special Feat	ures											
Special Featu	ire					X						
(Type:)												
Special Featu	ire					X						
(Type:)												

						Supers	tructure
Bridge Comp	ponent						Explanation of Condition
(Secondary S	Span : SM)						
Wearing Surfa	ace/Deck Top	Detai	I Ratings	5			
	N (%)	1 (%)	2 (%)	3 (%))	
Last	0		0	0		0	
Now	0.0		0.0	0.0		0.0	
Wearing Surface						X	
(Material Ty	ype :)						
(Thickness)	(mm) :)						
Lateral Conn (Y/N)	ection Problen	n	Yes				Cracked connection pocket grout - all locations.
Deck Top					X	4	Deck top - girders are wearing surface. Spall/delam at W span G4 from N (photo).
Deck Rideabi	ility				7	7	
Deck Joints					X	4	Buffer angles damaged missing at both approach spans.
Bump (Y/N))						
Deck Drainag	ge				X	9	
Drains Clog	gged (Y/N)						Drains btwn girders.
Curbs/Mediar	n				7	7	
(Curb Type	: Standard)						
Scaling (Pe	ercent Area)		0				
Bridge Rail					7	7	Double layer flexbeam.
(Type : GA	LVANIZED ST	ΓEEL	FLEX B	EAM)			No transition from S3 to S4.
Bridge Rail P	osts				7	7	
(Type : GAI STEEL;GA STEEL)	LVANIZED PO LVANIZED PO	OST S	TEEL;G	ALVANIZED BALVANIZED	POST POST		
Bridge Rail/P	osts Coating				6	6	
(Type : GA l	LVANIZED)						
Sidewalk					X	X	
Girder Detail	Ratings	,					
	N (count)	1 (cc	ount)	2 (count)	3 (co	unt)	
Last	0		0	0	0		
Now	0		0	0		0	
Girders					6	6	PG curb units - typical both ends with longit. crack in legs. No cracks visible in SM units.
-	e Inspection D	Date	13-Jul-2	2011			INO GIACKS VISIDIE III SIVI UNITS.
Cracking (Y			Yes				
Spalling (Pe	ercent Area) ctor Pocket		0 Yes				Grout cracked at connectors.
Grouted (Y/N)						
(Number Of C							
	nent Problems	5	Nic				
Vertical (Y/N) No							
	Horizontal (Y/N) No Superstructure General Rating					6	
						Subst	ructure
Bridge Comp	ponent				Last		Explanation of Condition
Abutments					Lust	. 10 11	
	Backwall Piles	(Y/N)	: Y)				
	Backwall Piles			: 1200)			
,oaca .			.5()	,			

					Subst	ructure
Bridge Comp	ponent			Last	Now	Explanation of Condition
	er of Caps/Cor	hels : 4:2)		Luot	IIIOII	2 at A2, 4 at A1.
	s/Caps/Corbel		as .			2 3(7)2, 7 3(7)
Boaring Coat	N (count)	1 (count)	2 (count)	3 (cou	ınt)	
Last	0	0	0		0	
Now	0	0	0		0	
	s/Caps/Corbel			8	8	-
	EATED TIMBE			0	0	300x300 plus 150x300.
(Depth(mm		-IX)				
(Width(mm						_
Backwalls/Br				4	1	A4 apilling at CIM corpor (phata)
		2.40		4	4	A1 spilling at SW corner (photo).
Greatest H	eigni (m)	2.40			T -	
Wingwalls				5	5	
(Total Numbe	er of Bearing P	Piles : 7:6)				A1 ligt fire damage.
Piles Detail R		,				A2 shims are loose.
	N (count)	1 (count)	2 (count)	3 (cou	unt)	7 TT at A1; 6 TT at A2; 13 total. A1P3-4 missing 25% top.
Last	0	0	0		0	A2P1 banded.
Now	0	0	0		0	
Piles				4	4	
Paint/Coating					X	
<u> </u>				X		
Abutment Sta	Abutment Stability					
Scour/Erosio	Scour/Erosion				4	Seepage below backwalls with erosion gullies. Very minor scour. A1 good gully. A2 utp to 300mm gullies (photo). Seepage behind abuts.
Piers/Bents						Coopage bermite abate.
(Type : PIE	R-SOLID)					2 CIP conc cap W/Z conc shafts, 2 total
	er of Caps/Cor	bels : 2:2:1)				1 mass conc shaft, 1 total
	s/Caps/Corbel		gs			1 300X300 TT and 1 150x300 cap for app span above CIP conc caps, 2 total
	N (count)			3 (cou	unt)	Spalling deteriortion on N end of P3, deterioration under truss torque
Last	0	0	0		0	(photo).
Now	0	0	0		0	Some staining of concrete on piers, finish peeling pier 1 & 3. MOD. scaling @ P1,P2,P3 (photo)
Bearing Seat	s/Caps/Corbel	ls		5	4	Scaled conc @ S. bearing P2 due to F/T.
(Type : CO	-					Paint failing at edges.
	er of Bearing P	Piles · O·O·O)				- and anning at ougot.
Piles Detail R						
. noo Botan N	N (count)	1 (count)	2 (count)	3 (cou	unt)	1
Last	0	0	0		0	
Now	0	0	0		0	
Pier Shaft/Pil	-			5	5	-
Greatest H		11.00				-
Bracing/Strut		11.00		X	X	
Drashing/othat	o, on out mig			^	_ ^	
Nose Plate				7	7	
Paint/Coating	l			5	4	Medium scaling.
(Colour De	scription :)					
(Colour Co	de :)					
Pier Stability				7	7	
Scour				7	N	Under high water.

			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		4	4	
			Structu	re Usage
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Curb)				HWM not apparent.
Drift (Y/N)	No			
Slope Protection		4	4	Erosion gullies from above.
(Type: NATURAL; NATURAL)			
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		4	4	

Inspector Recommendations Near Inspector Comments Department Comments Target Year Est. Co. REPAIR/REPLACE BRIDGE RAIL 2011 Comments of the UBL/TS on S3, if not yet done. SEAL DURBS	
REPAIR/REPLACE BRIDGE RAIL RETROFIT BRIDGE RAIL SEAL CURBS PATCH DECK 2011 Repair Ekki wood to sub fasteners and patch dock and a patch do	st Cat
RETROPIT BRIDGE RAIL SEAL CURBS 2011 Repair Ekki wood to sub fasteners and patch dock. OverLAY DECK PATCH DECK SEAL DECK OVERLAY DECK REPLACE STRIP DECK REPLACE STRIP DECK REPLACE SUB DECK REPLACE SUB DECK REPLATE STRIP TO THE REPLACE MEMBERS 2011 Replace all expansion brgs with neoprene pads. REPAINT SUPPERSTRUCTURE 2012 Repaint bridge. STRAIGHTENKEPLACE MEMBERS 2011 Pier tops. SHOTCRETE REPAIRS CORE TIMBER CAPS/CORBELS REPAIR/REPLACE TIMBER CAPS REPAIR ABUTHANT SCOUNE/REQUION 2011 Patch both approaches. OTHER ACTION OTHE	
PATCH DECK 2011 Repair Ekki wood to sub fasteners and patch deck. Patch subdeck in S3, if not yet done. Replace Streip Deck Replace Streip St	
deck. Patch subdeck in S3, if not yet done. Repair loose clips. SEAL DECK OVERLAY DECK REPLACE STRIP DECK REPLACE STRIP DECK REPLACE BUS DECK RESET/ PAINT BEARINGS 2011 Replace all expansion brgs with neoprene pads. REPAINT SUPERSTRUCTURE 2012 Repaint bridge. STRAIGHTEN/REPLACE MEMBERS 2011 2 portal sections - See 2009 UT report. WASHING SHOTCRETE REPAIRS CORE TIMBER CAPS/CORBELS REPAIR ABUTMENT SCOUR/EROSION 2011 Pier tops. SHOTCRETE REPAIRS CORE TIMBER CAPS/CORBELS REPAIR REPLACE TIMBER CAPS REPAIR ABUTMENT SCOUR/EROSION 2011 Patch both approaches. OTHER ACTION 2011 Patch both approaches. OTHER ACTION 2011 Replace missing clip angle at U11S S2. OTHER ACTION 2011 Patch paproach settlement. OTHER ACTION OT	
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RESET/ PAINT BEARINGS 2011 Replace all expansion brgs with neoprene pads. REPAINT SUPERSTRUCTURE 2012 Repaint bridge. 2011 2 portal sections - See 2009 UT report. WASHING 2011 Pier tops. SHOTCRETE REPAIRS CORE TIMBER CAPS/CORBELS REPAIRREPLACE TIMBER CAPS REPAIRREPLACE TIMBER CAPS REPAIRREPLACE TIMBER CAPS REPAIRREPLACE TIMBER CAPS REPAIR ABUTMENT SCOUR/EROSION PLACE ADDITIONAL RIP RAP REMOVE DRIFT ACCUMULATION OTHER ACTION 2011 Patch both approaches. OTHER ACTION OTHE	
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Structural Condition Rating (Last/Now) 38.9/38.9 Sufficiency Rating (Last/Now) 25.0/26.0 Est. Repl. Yr 2035 Maint. Reqd. (Y/N) Special Comments for Department Comments	
(%) Special Comments for Comments	
Comments for Comments	Yes
Treat inspection	
Maintenance Reviewed By Date Estimated Total 0	

Comment