							В	ridge l	nspec	tion						
Bridge File Num	ber	01122	2 -1 B	Bridge					Form	туре			CON			
Year Built/Year		1954/	/1954						Lot N	lo.			2			
Supstr		DENIA										Owen Salav	Owen Salava			
Bridge or Town I	Name			. D.V.E.D	0.00.1	1/4 TED C		O.T.	Inspector Class BR CLS A		BR CLS A					
Located Over					, 3.88, V	VATERO	JRS.	-81	Assistant Name							
Located On		11:12	C1 1	.152						Assistant Class						
Water Body Cl./							Inspection D			Date		01-Feb-2012				
Navigabil. Cl./Ye		OF 01	FC 2	TMD 20	NDOE 2	\\/_N/	· N //			Entry	Ву		Marcia Chavez			
Legal Land Loca) RGE 3	IVICVV	Data Entry Date			Date		01-Mar-2012				
Road Authority	iue			, 52:19:					Revie	ewer N	Name		John O'Brien			
Contract Main. A	rea	Alberta Transportation (AIT) CMA19				1)			Review Date 22-Feb-2012							
Clear Roadway/												Andrew Sm	Smikles			
AADT/Year						Dept. Review Date 09-Mar-2012				2						
Road Classificat	ion	5,740 / 2010 (A) RAU-211.8-110								Follow-Up By						
Detour Length (k		6	211.0	, 110												
Allowable Load (gle (CS1 3 GIRDI			Semi	CS	62 49			Train	cs	3 63		> On Criti	cal Spans Member
Design Loading:		H	HS20												> Primary	Span
							Ро	sting I	nform	ation						
Required Load F	osting	(t)			Single				5	Semi				Truc	k Train	
Posted Loading	(t)	Single					5	Semi				Truc	Truck Train			
Posted:	Lane	EB At Junction (Y		tion (Y/N	1)	No	In Advance (Y/N)		′/N)	No	At B	Bridge (Y/N) No				
Posted:	Lane	WB At Junction (Y			tion (Y/N	1)	No	In Advance (Y/N)		No	At B	ridge (Y/N)	No			
Remarks																
Hazard Marker At Bridge (Y/N) No																
Remarks Required.																
Other Sign Types "Medicine River", Info			", Informa													
						Uti	lities (l	Locate	ed at)							
Utility Attachmer																
Telephone	Plowe				,				Gas		C	cross	ing 100m Ea	st.		
Power Others		e OH 20m North of c/l. optic North r/w. Water gauging st of c/l			ging station				cipal lem (Y	′/N) N	10					
Remarks																
							A	Approa	ich Ro	ad						
						La	ast	Now	Expl	anatic	on of C	ondi	tion			
Horizontal Alignr	ment						6	6								ght sag curve,
Vertical Alignme	nt						6	6	iirnite	ea sigr	ıı distar	ice to	West. No p	assing	J VVBL.	
Roadway Width (m) 12.000						Poth	ole alc	ng E p	aving	j lip in EBL.						
Approach Bump				5	5											
Guardrail (Y/N)				Yes					Mino	r accid	dent da	mage	e at NW.			
Guardrail							4	5								
Length (m)				26.600					NE - Not t	26.6m hrie be	n; SE & eam: le	NW nath	 34.2m; SW insufficient. 	- 38.0)m.	
Current Standa	•	N)		No							, 10					
Termination Ty	/pe			Turn Do	wn			T _								
Drainage							7	7								
Approach Road	l Gene	ral Ra	ating				6	6								

					•	Supers	structure
Bridge Com	ponent				Last	Now	Explanation of Condition
	an : CT, 3 Spar	ns, Leng	gths(n	n): 19.5-24.4-	9.5, A-		•
Special Fea				•			
Special Feat	ture				7	7	Carbon fiber strapping glued to deck underside. Sika carbodur
(SType : DK UNDER REINF)							S1012 installed 2002.
Special Feature						Х	
(Type:)							
Wearing Sur	Wearing Surface/Deck Top Detail Ratings						
	N (%) 1 (%			2 (%)	3 (%)		
Last							
Now	0.0	0.	0	0.0	0	0.0	
Wearing Sur	face				7	7	Chip coat 1.0m x 1.0m worn off at East abutment of WBL. Chip coat
	ype : CONCRE	ETE - Co	ONVE	NTIONAL CH	IP SEA	L	also not extended into gutters by 1.0m, typical both sides.
COAT)							
(Thickness	s(mm) : 50)				1		
Deck Top					N	N	
Deck Rideal	oility				6	6	
Deck Mideal	Jiiity					l °	
Deck Joints					7	7	
Temperatu	ıre (deg. C)		5				
(Expansion Type : ARMOURED GLAND (WABO UNIOR SLIDING PLATES))				D (WABO UN	DER FI	NGER	
(Fixed Type :)							
Gap Size (mm) Gap Location		ocation					
	50		•	butment			
35				abutment			-
Deck Draina			*****	abatmont	4	4	Has catch basin type drains that collect debris & often plug. Drains
	gged (Y/N)	N	lo				drip onto exterior girders & flow to pier top.
Curbs/Media					3	3	Heavy scaling @ E parapet end - photo.
			3	<u> </u>	NW corner SE ext curb fascia chipped @ corner (rust staining).		
(Curb Type : Standard) Scaling (Percent Area) 10					S curb spalled under post - photo. Typical @ 5 locations. Curb face has numerous small delams or rebar spalls.		
Bridge Rail	ercent Area)	1	<u> </u>		7	7	HSS tube rail inside concrete posts; retrofit rail.
	LVANIZED ST	FEI VE	EPTIC	AI RAD)	1		S curb - 1st panel from W missing 1 vertical, 2nd panel - 2 bent
		LLL VI		AL DAIL)	4	4	verticals.
Bridge Rail Posts (Type : CONCRETE;CONCRETE)							15 posts recast new in /02. Steel panel reinforced with tube rail. Wide
	Posts Coating	TOILL	-)		7	7	vertical crack @ 9 post North rail, 3 post South. 4 concrete posts each side spalled/cracked to the point where adequate resistance
	LVANIZED)				'		from impact is suspect.
Sidewalk	(LVANIELD)				Х	Х	
Sidewaik					_ ^	_ ^	
Girders					4	4	Narrow shear cracks in AZ, typical. S3G3 marked/dated, crack extends into deck U/S. Typical flexural cracking in all girders 350 - 400 spacing.
					(Span deflects under load. 31Mar2010) - not apparent this inspection.		
Diaphragms	/Cross Frame				5	5	Wide crack @ c/l diaphragm over East pier. Many holes cored in most diaphragms.
Bearings					5	5	
	ıre (deg. C)		5				
·	n Type : ROLLI			ROCKER BE	ARING	i)	
	e : PINNED BE						
	dequate (Y/N)		, lo				
Functionin	· · · · · ·	Y	'es				Scaling. Rust on bottom half of rollers. Rusting on all exterior bearings.
1 01100011111	3 (''' ')	ľ					peanings.

				tructure
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CT, 3 Spans, Le	engths(m): 19.5-24.4-1	9.5, A	Ident N	lumber:)
Deck Underside		7	7	Shear like cracks found near both abutments. Crack moving up to
Stains (Percent Area)	2			deck U/S.
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
			0 1 1	
Bridge Component		Last	Now	ructure Explanation of Condition
Bridge Component Abutments		Last	INOW	Explanation of Condition
Bearing Seats		5	5	
Dearing deats				
Backwalls/Breastwalls		7	7	
Wingwalls		5	5	
Piles		N	N	
Paint/Coating		Х	X	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Pier Shaft/Piles		7	7	
Nana Diata		7		
Nose Plate		7	7	
Paint/Coating		4	4	Nose plate rusting.
(Colour Description :)				
(Colour Code :)			_	
Pier Stability		7	7	
Scour		6	5	Erosion around P2.
Debris (Y/N)	No			
Substructure General Rating		5	5	
-				
				re Usage
Channel		Last	Now	Explanation of Condition
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			I IVVIVI HOL VISIDIC.
Slope Protection	140	6	6	
(Type: NATURAL: NATURAL	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	U	U	

Structure Usage									
	Last	Explanation of Condition							
Guidebank/Spurs	X	X							
Adequacy of Opening	7	7							
(Fish Compensation Measure 1 : NONE)									
(Fish Compensation Measure 2 : NONE)									
Channel General Rating	6	6							

Alberta Transportation

		Waintenance r	Maintenance Recommendations	tions					
Inspector Recommendations	Year	Inspector Comments		Department Comments	nents		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2012	Recast crack / spalled posts (12).							
GALVANIZE/PAINT BRIDGE RAIL									
RETROFIT BRIDGE RAIL									
SEAL CURBS	2012	Patch spalled curbs. 2m3 OH-V.							
PATCH DECK									
SEAL DECK									
OVERLAY DECK									
REPAIR/REPLACE DECK JOINTS									
RESET/ PAINT BEARINGS	2012	Paint abutment bearings.							
WASHING									
SHOTCRETE REPAIRS									
REPAIR ABUTMENT SCOUR/EROSION	NO								
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
OTHER ACTION	2012	Install sufficient guardrail length to meet standard. Replace 2 sections at NW.	meet						
OTHER ACTION	2012	Patch potholes at E paying lip.							
OTHER ACTION									
NOITO VOITO									
OTHER ACTION		_							
Structural Condition Rating (Last/Now) (%)	ow) 50.0/50.0	Sufficiency Rating (Last/Now) (%)		42.3/42.3	Est. Repl. Yr	2020	Maint. Reqd. (Y/N)		Yes
Special (Monitor shear crack Comments for above/below bottom 1995/10/03).	ks in ends of g n rebar in girde	(Monitor shear cracks in ends of girders with width measurement & distance to above/below bottom rebar in girder - Paul Carrier, S3G3 marked & dated 28Jul2007. 1995/10/03).	ance to	Department Comments					
Maintenance Reviewed By				Date		Ě	Estimated Total	0	
Proposed Long-Term Strategy	2004.05.29 B	2004.05.29 Bridge refurbished in 2002 including strengthening. Bridge should be good until 2022	rengthening. B	ridge should be go	od until 2022.				
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Owen Salava		Previous A	Previous Assistant's Name					
Next Inspection Date	01-Nov-2013		Previous In	Previous Inspection Date	31-Mar-2010				
Inspection Cycle (Default) (months)	21								
Comment									

		Maintenance Recommer	dations				
Inspector Recommendations	Year	Inspector Comments	Department (Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2012	Recast crack / spalled posts (12).	Programmed (Posts which have their structural integrity compromised)		2013		
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS	2012	Patch spalled curbs. 2m3 OH-V.	Defer, to be r	eplaced soon	2017		
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS	2012	Paint abutment bearings.	Defer, to be r	eplaced soon	2017		
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSIO	N						
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Install sufficient guardrail length to meet standard. Replace 2 sections at NW.	To operations	3			
OTHER ACTION	2012	Patch potholes at E paving lip.	Programmed Operations)	(If not already completed by	2013		
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Nov (%)	w) 50.0/50	Sufficiency Rating (Last/Now) (%)	42.3/42.3	Est. Repl. Yr 2020	Maint. Re	eqd. (Y/N)	Yes
Special Comments for Next Inspection (Monitor shear cracks above/below bottom re 28Jul2007. 1995/10/0	ebar in girde	rders with width measurement & distance to r - Paul Carrier, S3G3 marked & dated	Department Comments	Currently programmed to b	e replaced in 20	17.	
Maintenance Reviewed By Ar	ndrew Smikle	es	Date	31-Oct-2012	Estimated Total	al O	
Proposed Long-Term Strategy 20	004.05.29 Br	idge refurbished in 2002 including strengthenir	ng. Bridge should	d be good until 2022.			
On 3-Year Program (Y/N)							

Proposed Action			
Previous Inspector's Name	Owen Salava	Previous Assistant's Name	
Next Inspection Date	01-Nov-2013	Previous Inspection Date	31-Mar-2010
Inspection Cycle (Default) (months)	21		
Comment			