							Bridge I	nspe	ction							
Bridge File Number 85047 N-1 Bridge				magen		Form Type		SG								
Year Built/Year 1998/1998					Lot No.				3							
Supstr						Inspector Name		Wade Nanninga								
Bridge or Town Name ANTY HDY/YHT							Inspector Class		BR CLS A	0						
Located Over 16:16 R1 6.808;16:16 L1			116808				Assistant Name									
Located On 216:06 R1 24.474						Assistant Class										
Water Body CI./Year				-				pection			24-Jan-2013					
Navigabil. Cl./Year				-				Data Entry By		Theresa Lacusta						
Legal Land Location SW SEC 1		SEC 17 TW	C 17 TWP 53 RGE 25 W4M							08-Feb-2013						
Longitude, Latitude -113:39:4		3:39:41, 53:3	:41, 53:34:25				Reviewer Name			Eric Carcoux						
Road Authority Alberta T		erta Transpo	a Transportation (AIT)				Review Date			27-Jan-2013						
		HONY HEN	DAY D	RIVE						Name	Brent Herrick					
Clear Roadway/S	Skew	16.6	5/						pt. Revi			14-Feb-2013				
AADT/Year		33,2	270 / 2011 (A	11 (A)					low-Up			11100 2010				
Road Classificati	on	RFD	0-412.4-110						. <b>5.7</b> Op							
Detour Length (k	im)	1														
Allowable Load (	t): Sing	gle	CS1 28		Sen	ni C	S2 49	Train C		CS	53 62		> On Critical Spans			
Decise 1 1			00770											>Critical I		
Design Loading:			CS750								> Primary Span					
Deguined Vort	leeren	D	a ativa a (ma)			Р	osting I	ntor	nation							
Required Vert. C			• · · ·	N												
Posted Vertical C				Yes	ایم ۸ ما			Na	Lana			n Dridere (me)			- (\//NI)	Nia
	EB		Dn Bridge (m			vance	. , ,	No	Lane	WB	0	n Bridge (m)		In Advanc	e (Y/N)	No
			earance post			ages c						<b>-</b> -	<b>-</b> ·			
Required Load P		(t)			Single			Semi			Truck Train					
Posted Loading (					Single			Semi		0 / A N		Truck Train				
	Lane		NB		inction (	· /	No	In Advance (Y/N)		No		dge (Y/N)	No			
			Inction	(Y/N)			In Adv	ance	(Y/N)		At Brid	dge (Y/N)				
	Not re															
Hazard Marker At Bridge (Y/N) No																
Remarks Not required.																
Other Sign Types	S															
	4.5					U	tilities (	Loca	ted at)							
Utility Attachmen	its							0-								
Telephone	Ot	، با م	o obcur	heles	haida:-			Ga								
	Street	light	s above and	WOI9G	unage.	Э.			nicipal	(///	NI-					
Others								Pro	blem (Y	7/N)	No					
Remarks							Approx	ok-F								
						Last	Approa		olanatio	on of	Condi	tion				
Horizontal Alignm	nent					7	7	-^	Jundin		Jonul					
Vertical Alignme						7	7	1								
Roadway Width (m) 16.600				1	Bo	h annro	ache	s sattla	d creating a k	num -	Crack at an	nroach	slah			
Approach Bump			4	4	Both approaches settled creating a bumpCrack at approach sla					5100.						
Guardrail (Y/N) Yes				-	Δ١Ι	5 transi	tion h	olte ha	ve failed at th	e SE/S	SW corner					
Guardrail (17/N) Yes			3	3		0 110101		ono na	ve falled at th							
			5	5												
					-											
Current Standard (Y/N) Yes   Termination Type Attenuation					-											
	he		Alleni	auun		7	7	-								
Drainage																
Approach Road	Gene	ral R	ating			7	7									

Bridge Com	anant			Last		tructure
Bridge Com		ang Longtho(	m); 11 10 A I			Explanation of Condition
		ans, Lengths(	m): 44-40, A-1		umper	
Special Feat					X	
· ·					~	
(Type : )					X	
Special Featu	lie				<b>^</b>	
(Type:)		Detail Detiner				
Wearing Surface/Deck Top Detail Ratings			2 (0/)			
Lact	N (%)	1 (%)	2 (%)	3 (%)		
Last	00.0	0.0	0.0	-		-
Now 20.0 0.0 0.0				0		
Wearing Surf				3	N	(deteriorating along edgesApr-2012)
(Material Ty						-
(Thickness	(mm) : <b>50</b> )				1	
Deck Top				N	N	
Deck Rideab	lity			7	7	
Deck Joints				3	N	The North joint is being over topped at both ends allowing water onto
Temperatu	e (dea. C)	-15			1	bearing seatApr-2012
		ID (WABO-MA	UER. TRANS	FLEX.	ETC))	Snow covered
(Fixed Type				<u> </u>	,	Old stains on backwall-N abut.
Gap Size (r	· · ·	Gap I	ocation			
30 A1 - South abut - tra				nsflex		
15 A2 - North abut - tra						
		,		nonox		-
						-
						-
Deck Drainag	10			7	7	No drains.
Drains Cloc		No				
Curbs/Media		110		4	4	Numerous vertical shrinkage cracks every approx 600mm and some
					4	Numerous vertical shrinkage cracks every approx 600mm and some appear to be medium width.
Scaling (Pe						
	icent Alea)	0		V	V	
Bridge Rail				X	X	
(Type : )	octo			X	X	-
Bridge Rail P (Type : )	0515			<b>^</b>	<b>^</b>	
(Type : ) Bridge Rail/P	osta Castina			X	Х	-
				<b>^</b>	<b>^</b>	
(Type:)				X	X	
Sidewalk				X	X	
Girder/Beam						
Cover Plate				X	X	-
Flange				9	9	-
Web				9	9	-
Stiffeners				9	9	4
Splice				9	9	4
Weld				N	N	
Diaphragms/Cross Frame					9	

Alberta Transportation

		Supers	structure					
Bridge Component	Last		Explanation of Condition					
(Primary Span : WG, 2 Spans, Len	gths(m): 44-40, A-Ident							
Paint Condition	8	8	Weathering steel.					
(Colour Description : )								
(Colour Code : )								
Touchup Required (Y/N)	n							
Bearings	8	8	Ladder required to view bearings.					
Temperature (deg. C) -1		0	(North abutment: less than 4mm of expansion left at 24 degree C -					
(Expansion Type : REINFORCED TEFLON AND STAINLESS STEE	NEOPRENE BEARING	WITH	photo. 17-Jul-2009) Fixed viewed from headslopes with binoculars, no issues apparent. (South abutment 2mm exp remaining @ 24 degree C. 17-Jul-2009)					
(Fixed Type : PINNED BEARING)	/							
	es		-					
	es		-					
<u>0</u> ( )		4						
Deck Underside	4	4	Narrow transverse & longitudinal cracks typical. Some with efflorescence. Transverse cracks become wide under curbs on deck					
Stains (Percent Area) 2			underside, worst area on East side - photo. Soffit coating starting to peel off.					
Span Alignment Problems								
Vertical (Y/N) N	o		_					
Horizontal (Y/N)	0							
Superstructure General Rating	4	4						
		Subst	ructure					
Bridge Component	Last	Now	Explanation of Condition					
Abutments								
Bearing Seats/Caps	6	6	Numerous vertical shrinkage cracks.					
(Type : CONCRETE)								
Backwalls/Breastwalls	6	6						
Wingwalls	6	6	Only 1 non standard bridge plaque on inside barrier face at SW corner. Numerous shrinkage cracks on wingwalls. 2 minor concrete spalls SW corner.					
Piles	N	N						
Paint/Coating	4	4	Coating cracked numerous locations due to concrete cracks.					
Abutment Stability	7	7						
Scour/Erosion	X	X						
Piers/Bents								
(Type : PIER-COLUMN)			4 pier columns.					
Bearing Seats/Caps	8	8						
(Type : CONCRETE)	0	U						
(Total Number of Bearing Piles : 0)			Numerous random shrinkage cracks on pier cap and columns.					
Pier Shaft/Piles	6	6	ramerous random similitage clacks on pier cap and columns.					
Bracing/Struts/Sheathing	x	X						
Nose Plate	X	X						
Paint/Coating	4	4	Coating cracked numerous locations due to concrete cracks.					
(Colour Description : )			Grey.					
(Colour Code : )								
Pier Stability	8	8						
Scour	X	N	(Evidence that ditch drainage is pooling @ base of pier. 24/Oct/2007)					

			Subst	ructure
Bridge Component		Last		Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating			6	
		s	Structu	re Usage
		Last	Now	Explanation of Condition
Grade Separation			_	
Road Alignment		8	8	
Traffic Safety Features		4	7	
Туре	Lighting			
Slope Protection		6	5	100mm settlement top South headslope, 40mm at North20mm
(Type : CONCRETE; CONCRE	ETE)			cracks
Bank Stability		6	6	
Drainage			6	
Grade Separation General Rating			6	

Alberta Transportation

		Maintenance Recommend	lations					
Inspector Recommendations	Year	Inspector Comments	Department Cor	nments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2013	Repair transition bolts. SW/SE - connect to curb.						
GALVANIZE/PAINT BRIDGE RAIL								
RETROFIT BRIDGE RAIL								
SEAL CURBS	2013	Seal barriers every 2 years.						
PATCH DECK								
SEAL DECK								
OVERLAY DECK								
REPAIR/REPLACE DECK JOINTS	2013	Redesign joints so they don't get overtopped a ends, if not done.	t					
RESET/ PAINT BEARINGS								
REPAINT SUPERSTRUCTURE								
STRAIGHTEN/REPLACE MEMBERS								
WASHING								
SHOTCRETE REPAIRS								
REPAIR ABUTMENT SCOUR/EROSION								
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
OTHER ACTION	2013	Investigate why deck is so porous.						
OTHER ACTION	2013	Repair approach settlement. Seal cracks.						
OTHER ACTION	2013	Install 2 bridge plaques as per standard.						
OTHER ACTION	2013	Install advance vertical clearance signs.						
OTHER ACTION	2013	Repair 2 spalls on outside wingwall at SW.						
OTHER ACTION	2013	Seal crack @ top of slope protection.						
OTHER ACTION	2013	Seal substructure and fascia.						
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/Now) (%)	55.6/55	.6 Sufficiency Rating (Last/Now) (%)	52.2/52.2	Est. Repl. Yr	2080	Maint. Red	qd. (Y/N)	Yes
	ion at bearir	ns. Monitor slope protection settlement.	Department Comments					
Maintenance Reviewed By			Date	Estimated Total 0				
Proposed Long-Term Strategy								

On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Randy Bredo	Previous Assistant's Name	
Next Inspection Date	24-Oct-2014	Previous Inspection Date	28-Apr-2012
Inspection Cycle (Default) (months)	21		
Comment			