

Bridge Inspection									
Bridge File Number	74600 W-2 Bridge					Form Type	PSR		
Year Built/Year Supstr	1971/1971					Lot No.	1		
Bridge or Town Name	MORLEY					Inspector Name	Garry Roberts		
Located Over	25125:02 L1 0.218;25125:02 R1 0.219					Inspector Class	BR CLS A		
Located On	1:04 L1 22.194					Assistant Name			
Water Body Cl./Year						Assistant Class			
Navigabil. Cl./Year						Inspection Date	10-Feb-2012		
Legal Land Location	NE SEC 28 TWP 25 RGE 6 W5M					Data Entry By	Anne Roberts		
Longitude, Latitude	-114:46:10, 51:09:43					Data Entry Date	12-Mar-2012		
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey		
Contract Main. Area	CMA28					Review Date	21-Feb-2012		
Clear Roadway/Skew	12.8 / -30 deg. (LHF)					Dept. Reviewer Name	Tim Davies		
AADT/Year	18,610 / 2010 (A)					Dept. Review Date	22-Mar-2012		
Road Classification	RAD-412.4-120					Follow-Up By			
Detour Length (km)	1								
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member		
Design Loading:	HS20					----> Primary Span			

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 25125 L1 3.9m, 25125 R1 3.9m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	4.6	In Advance (Y/N)	Yes
Remarks		Posted N/B on structure to south										
Required Load Posting (t)			Single			Semi			Truck Train			
Posted Loading (t)			Single			Semi			Truck Train			
Posted:	Lane	EB	At Junction (Y/N)			In Advance (Y/N)			At Bridge (Y/N)			
Posted:	Lane	WB	At Junction (Y/N)	No		In Advance (Y/N)	No		At Bridge (Y/N)	No		
Remarks		Not Required										

Hazard Marker At Bridge (Y/N)	No											
Remarks												
Other Sign Types		CURVE										

Utilities (Located at)												
Utility Attachments												
Telephone	South ditch					Gas						
Power						Municipal						
Others						Problem (Y/N)	No					
Remarks												

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	
Vertical Alignment		6	6	
Roadway Width (m)	12.800			
Approach Bump		5	6	
Guardrail (Y/N)	Yes			Minor damage at SE. Still functional
Guardrail		5	5	Not thriebeam
Length (m)	87.000			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		4	4	Erosion at NE approach rail - 2 posts
<b>Approach Road General Rating</b>		<b>6</b>	<b>6</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PM, 3 Spans, Lengths(m): 9.1-13.7-10.7, A-Ident Number: )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
<b>Wearing Surface/Deck Top Detail Ratings</b>					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			4	4	20% abraded chipcoat on concrete. Avg-100 mm total thickness
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			7	7	Gaps measurements @ angle iron @ curbs
Temperature (deg. C)		-12			
(Expansion Type : )					
(Fixed Type : <b>THERMOPLASTIC POLYMER</b> )					
Gap Size (mm)		Gap Location			
15		W abut			
20		W pier			
20		E pier			
10		E abut			
Deck Drainage			4	4	No deck drains. Leaking along centerline and North curbs. Active staining at underside
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Minor Spall @ NE. Hole in North curb Sp.2 -100x200
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		1			
Bridge Rail			5	5	Single layer-minor damage One A/B nut missing @ NW
(Type : <b>STEEL FLEX BEAM</b> )					
Bridge Rail Posts		3	3		
(Type : <b>POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		5	5		
(Type : )					
Sidewalk			X	X	
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	200 mm spalls Sp.1-G13 and Sp.3-G3 at abuts.
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	4	
Girders			5	3	
Cracking (Y/N)		Yes			Girders patched A few with minor narrow longitudinal cracks and south exteriors have minor corrosion stains @ sides Sp.2-G14, 14 cracks with corrosion stains
Spalling (Percent Area)		0			
(Number Of Girders : <b>45</b> )					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 9.1-13.7-10.7, A-Ident Number: )				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	
Temperature (deg. C)	-12			
(Expansion Type : <b>NEOPRENE STRIP BEARING</b> )				
(Fixed Type : <b>NEOPRENE STRIP BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Active leakage at C/L and North curb
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>3</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		6	6	Tar coated
Abutment Stability		7	7	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		6	6	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>9:9</b> )				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		7	7	
(Colour Description : <b>GREEN</b> )				
(Colour Code : <b>14090</b> )				
Pier Stability		8	7	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>6</b>	<b>6</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		6	6	
Traffic Safety Features		7	7	
Type	Jersey Barrier			
Slope Protection		5	5	
(Type : <b>NATURAL; NATURAL</b> )				
Bank Stability		6	6	
Drainage		7	6	
<b>Grade Separation General Rating</b>		<b>6</b>	<b>6</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Replace 1 A/B nut					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2012	Patch 100x 200 hole North curb					
PATCH DECK							
SEAL DECK	2012	Reseal centerline joint and North curb line					
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2012	5m3 pit run at NE					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Investigate and repair girder cracks and spalls					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>59.3/53.6</b>	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	10-Nov-2013		Previous Inspection Date	15-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							