

Bridge Inspection							
Bridge File Number	13164 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1958/1958			Lot No.	2		
Bridge or Town Name	MAYERTHORPE			Inspector Name	Todd Warshawski		
Located Over	TRIBUTARY TO PADDLE RIVER, 8.11.84.30.31, WATERCRS-ST			Inspector Class	BR CLS B		
Located On	647:02 C1 14.913			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	27-Feb-2013		
Legal Land Location	SW SEC 5 TWP 57 RGE 9 W5M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-115:18:38, 53:53:24			Data Entry Date	21-Mar-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA12			Review Date	17-Mar-2013		
Clear Roadway/Skew	9.1 /			Dept. Reviewer Name	Brent Herrick		
AADT/Year	450 / 2011 (A)			Dept. Review Date	22-Mar-2013		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	5						
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 66 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20						----> Primary Span

Posting Information							
Required Load Posting (t)	Single		Semi		Truck Train		
Posted Loading (t)	Single		Semi		Truck Train		
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N) No
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N) No
Remarks	Load posting not required.						
Hazard Marker At Bridge (Y/N)	Yes						
Remarks	SE post is bent.						
Other Sign Types							

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	South r/w conduit under South curb.	Gas	South r/w.
Power	2 lines North r/w	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Crest curve east limits sight distance, no passing east. Access West.
Vertical Alignment		6	6	
Roadway Width (m)	7.700			Settlement and bump at both approaches.
Approach Bump		7	4	
Guardrail (Y/N)	Yes			Not Fleat
Guardrail		6	6	
Length (m)	23.000			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		7	7	
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PGO, 3 Spans, Lengths(m): 6.1-6.1-6.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface			5	5	Wide transverse crack @ East & West abutment & pier 2.
(Material Type : ACP)					
(Thickness(mm) : 150)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	Paved over.
Bump (Y/N)		Yes			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Crack & spall on NW curb. 4 lift pockets not grouted. Spalls along outer South curb fascia Spans 1 & 2.
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			7	7	Double layer. Crack & spall on SW & NW curb at post anchorage. Damaged anchorage on NE post on Span 2.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			4	4	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last				2	
Now				2	
Girders			3	3	3 punchouts on S3G4 up to 400x700mm. 2 punchouts on S3G8 up to 400x900mm. Narrow shear cracks on S1G2 & G5, S2G5, S3G7,8. Concrete spalls O/S of AZ with unsound concrete: S1G1, S2G1, S2G11. Spalls and wide cracks on 13 of 33 girders.
Last Complete Inspection Date		27-Jul-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		2			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 33)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			3	3	

Substructure					
Bridge Component	Last	Now	Explanation of Condition		
Abutments					
(Extended Backwall Piles (Y/N) : N)			Cored Feb 27, 2013		
(Extended Backwall Piles Spacing(mm) :)					
(Total Number of Caps/Corbels : 3:3)			Bridge was raised and widened with original cap left in place. Sag in East abutment cap appears to be as constructed.		
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last			1		
Now				1	
Bearing Seats/Caps/Corbels			2	3	
(Type : TREATED TIMBER)					
(Depth(mm) : 300)					
(Width(mm) : 300)					
Backwalls/Breastwalls			4	4	
Greatest Height (m)		2.50			
Wingwalls			4	4	
			West backwall 90mm gap & broken planks. East backwall rotten planks.		
			NW wingwall pile has torn tin top SE. Tin top has hole. SW wingwall leaning inward.		
(Total Number of Bearing Piles : 8:8)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Piles			5	6	
Paint/Coating			X	X	
Abutment Stability			5	5	
Scour/Erosion			5	5	
			High water debris (sand) blocks drainage away from abutment.		
Piers/Bents					
(Type : PIER-COLUMN)					
(Total Number of Caps/Corbels : 3:3)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Bearing Seats/Caps/Corbels			4	4	
(Type : TREATED TIMBER)					
(Depth(mm) : 300)					
(Width(mm) : 350)					
(Total Number of Bearing Piles : 8:8)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now				1	
Pier Shaft/Piles			5	3	
Greatest Height (m)		3.30			
Bracing/Struts/Sheathing			5	5	
			S1P7 & S2P1 both have twisted struts.		
Nose Plate			X	X	
Paint/Coating			X	X	
(Colour Description :)					
(Colour Code :)					
			2nd pile from South end has steel capital, pier 2.		
			Rot with small voids Pier 2 P6.		
			Checks up to 10mm wide on several piles.		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		5	5	
Debris (Y/N)	Yes			
Substructure General Rating		2	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		7	7	
Bank Stability		5	5	.
HWM (m below Top of Curb)	1.7			Drift caught on pier.
Drift (Y/N)	Yes			
Slope Protection		6	6	
(Type : RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations						
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL						
SEAL CURBS	2013	P.D. concrete repairs curbs and post anchorage.				
PATCH DECK						
OVERLAY DECK						
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS						
CORE TIMBER CAPS/CORBELS						
REPAIR/REPLACE TIMBER CAPS	2013	Replace caps.				
REPAIR ABUTMENT SCOUR/EROSION	2013	Grade top of West headslope to allow drainage.				
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
INSTALL STRUTS						
OTHER ACTION	2013	Treat and band 5 piles.				
OTHER ACTION	2013	Replace torn tin tops.				
OTHER ACTION	2013	Repair or replace S3G4, G8, S1G1, S2G1, & S2G11.				
OTHER ACTION	2013	Mill and patch ACP at approaches.				
OTHER ACTION	2013	Post 1 Pier pile Pier 2 P6.				

Structural Condition Rating (Last/Now) (%)	27.8/33.3	Sufficiency Rating (Last/Now) (%)	56.9/57.7	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
---	------------------	--	------------------	---------------	------	-------------------	-----

Special Comments for Next Inspection	Monitor girder deterioration.	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	Arnold Assenheimer	Previous Assistant's Name	
---------------------------	--------------------	---------------------------	--

Next Inspection Date	27-May-2016	Previous Inspection Date	27-Jul-2012
----------------------	-------------	--------------------------	-------------

Inspection Cycle (Default) (months)	39
-------------------------------------	----

Comment	
---------	--