

| Bridge Inspection | | | | | | | |
|------------------------|------------------------------|-------------|------|---------------------|----------------|---------------|---|
| Bridge File Number | 07815 -1 Bridge | | | Form Type | SG | | |
| Year Built/Year Supstr | 1964/1964 | | | Lot No. | 2 | | |
| Bridge or Town Name | MILK RIVER | | | Inspector Name | Jason Rusu | | |
| Located Over | MILK RIVER, 1, WATERCRS-ST | | | Inspector Class | BR CLS A | | |
| Located On | 501:04 C1 32.373 | | | Assistant Name | | | |
| Water Body Cl./Year | | | | Assistant Class | | | |
| Navigabil. Cl./Year | | | | Inspection Date | 09-Jun-2012 | | |
| Legal Land Location | SE SEC 6 TWP 2 RGE 18 W4M | | | Data Entry By | Kelsey Roberts | | |
| Longitude, Latitude | -112:23:53, 49:05:22 | | | Data Entry Date | 20-Jul-2012 | | |
| Road Authority | Alberta Transportation (AIT) | | | Reviewer Name | Garry Roberts | | |
| Contract Main. Area | CMA24 | | | Review Date | 10-Jul-2012 | | |
| Clear Roadway/Skew | 7.9 / 20 deg. (RHF) | | | Dept. Reviewer Name | Tim Davies | | |
| AADT/Year | 220 / 2011 (A) | | | Dept. Review Date | 30-Jul-2012 | | |
| Road Classification | RCU-209-110 | | | Follow-Up By | | | |
| Detour Length (km) | 58 | | | | | | |
| Allowable Load (t): | Single | H 54 GIRDER | Semi | HS 59 GIRDER | Train | CS3 71 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 | Not required. | | | | | | | | |
| Hazard Marker At Bridge (Y/N) | Yes | | | | | | | | |
| Remarks | | | | | | | | | |
| Other Sign Types | Slippery, Narrow bridge. | | | | | | | | |

| Utilities (Located at) | | | |
|------------------------|--------------------------------|--|------------------|
| Utility Attachments | | | |
| Telephone | South side attached to bridge. | | Gas |
| Power | | | Municipal |
| Others | | | Problem (Y/N) No |
| Remarks | | | |

| Approach Road | | | | |
|-------------------------------------|-----------|----------|----------|---|
| | | Last | Now | Explanation of Condition |
| Horizontal Alignment | | 7 | 7 | In sag curve. |
| Vertical Alignment | | 6 | 6 | |
| Roadway Width (m) | 8.500 | | | |
| Approach Bump | | 5 | 5 | |
| Guardrail (Y/N) | Yes | | | SW missing 1 splice bolt, NW missing 4. Not thrie beam. No bolts @ NW - Others Missing one |
| Guardrail | | 3 | 3 | |
| Length (m) | 42.000 | | | |
| Current Standard (Y/N) | No | | | |
| Termination Type | Turn Down | | | |
| Drainage | | 3 | 3 | 1.5 x 1.5 x 0.8m erosion hole @ NE corners. |
| Approach Road General Rating | | 6 | 6 | |

| Superstructure | | | | | |
|--|-------|--------------|-------|---|--|
| Bridge Component | | Last | Now | Explanation of Condition | |
| (Primary Span : RB, 3 Spans, Lengths(m): 20.1-25.3-20.1, A-Ident Number: A0451-01) | | | | | |
| Special Features | | | | | |
| Special Feature | | | X | | |
| (Type :) | | | | | |
| Special Feature | | | X | | |
| (Type :) | | | | | |
| Wearing Surface/Deck Top Detail Ratings | | | | | |
| | N (%) | 1 (%) | 2 (%) | 3 (%) | |
| Last | | | | | |
| Now | 0.0 | 0.0 | 0.0 | 0.0 | |
| Wearing Surface | | X | X | | |
| (Material Type :) | | | | | |
| (Thickness(mm) :) | | | | | |
| Deck Top | | 5 | 5 | Wide spread transverse medium width crack. | |
| Deck Rideability | | 5 | 5 | | |
| Deck Joints | | 6 | 6 | | |
| Temperature (deg. C) | | 14 | | | |
| (Expansion Type : SLIDING PLATES) | | | | | |
| (Fixed Type :) | | | | | |
| Gap Size (mm) | | Gap Location | | | |
| 15 | | W. abut. | | | |
| 32 | | E. abut. | | | |
| | | | | | |
| Deck Drainage | | 4 | 4 | {Erosion @ East headslope from deck drain. Drain misses trough. Erosion hole is 1.5 x 1.5 x 0.8m @ NE. May 9, 2009 CP inspection} | |
| Drains Clogged (Y/N) | | No | | | |
| Curbs/Median | | 6 | 6 | | |
| (Curb Type : Standard) | | | | | |
| Scaling (Percent Area) | | 0 | | | |
| Bridge Rail | | 3 | 3 | Missing 4 rail bolts. Missing 1 bolt @ NW and 5th post from SE at bottom connector. 1 post A/B nut missing on 7th post from SE. | |
| (Type : GALVANIZED STEEL VERTICAL BAR) | | | | | |
| Bridge Rail Posts | | 3 | 3 | | |
| (Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL) | | | | | |
| Bridge Rail/Posts Coating | | 7 | 7 | | |
| (Type : GALVANIZED) | | | | | |
| Sidewalk | | X | X | | |
| Girder/Beam | | | | | |
| Cover Plate | | 3 | 3 | {1 small crack at S1G3-PL2W. May 9, 2009 CP inspection} | |
| Flange | | 7 | 7 | | |
| Web | | 7 | 7 | | |
| Stiffeners | | 7 | 7 | | |
| Splice | | 7 | 7 | | |
| Weld | | 3 | 3 | | |
| Diaphragms/Cross Frame | | 4 | 4 | Missing 2 bolts on diaphragms. May 9, 2009 CP inspection | |

| Superstructure | | | | |
|--|-----|----------|----------|--|
| Bridge Component | | Last | Now | Explanation of Condition |
| (Primary Span : RB, 3 Spans, Lengths(m): 20.1-25.3-20.1, A-Ident Number: A0451-01) | | | | |
| Paint Condition | | 8 | 8 | |
| (Colour Description : GREEN) | | | | |
| (Colour Code : 503-113) | | | | |
| Touchup Required (Y/N) | No | | | |
| Bearings | | 4 | 4 | Overexpanded 40mm A1- Bolts are bent @ abuts and Pier 2 @ Pier 1 |
| Temperature (deg. C) | 10 | | | |
| (Expansion Type : ROCKER BEARING) | | | | |
| (Fixed Type : PINNED BEARING;REINFORCED PAD BEARING) | | | | |
| Coating Adequate (Y/N) | Yes | | | |
| Functioning (Y/N) | No | | | |
| Deck Underside | | 6 | 6 | Small cracks. Minor efflorescence. |
| Stains (Percent Area) | 1 | | | |
| 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 | | | | |
| Bearing Seats/Caps | | 7 | 7 | |
| (Type : CONCRETE) | | | | |
| Backwalls/Breastwalls | | 7 | 7 | |
| Wingwalls | | 7 | 7 | |
| Piles | | N | N | |
| Paint/Coating | | X | X | |
| Abutment Stability | | 7 | 7 | |
| Scour/Erosion | | 3 | 3 | |
| NE headslope eroded from broken deck drain. 1.5 x 1.5 x 0.8m erosion hole | | | | |
| Piers/Bents | | | | |
| (Type : PIER-SOLID) | | | | |
| Bearing Seats/Caps | | 7 | 7 | |
| (Type : CONCRETE) | | | | |
| (Total Number of Bearing Piles : 0:0) | | | | |
| Pier Shaft/Piles | | 7 | 7 | |
| Bracing/Struts/Sheathing | | X | X | |
| Nose Plate | | 7 | 7 | 90% worn off nose plate. |
| Paint/Coating | | 4 | 4 | |
| (Colour Description :) | | | | |
| (Colour Code :) | | | | |
| Pier Stability | | 7 | 7 | |
| Scour | | 7 | 7 | |
| Debris (Y/N) | No | | | |

| Substructure | | | | |
|--|----|----------|----------|--------------------------|
| Bridge Component | | Last | Now | Explanation of Condition |
| Substructure General Rating | | 7 | 7 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel | | | | |
| (U/S Direction : N) | | | | |
| (D/S Direction : S) | | | | |
| Alignment | | 7 | 7 | |
| Bank Stability | | 7 | 7 | |
| HWM (m below Top of Curb) | | | | No visible HWM |
| Drift (Y/N) | No | | | |
| Slope Protection | | 7 | 7 | |
| (Type : CONCRETE; CONCRETE) | | | | |
| Guidebank/Spurs | | X | X | |
| Adequacy of Opening | | 8 | 8 | |
| (Fish Compensation Measure 1 : NONE) | | | | |
| (Fish Compensation Measure 2 : NONE) | | | | |
| Channel General Rating | | 7 | 7 | |

| Maintenance Recommendations | | | | | | | |
|---|------------------|--|---------------------------|---------------|-----------|-------------------|-----|
| Inspector Recommendations | Year | Inspector Comments | Department Comments | Target Year | Est. Cost | Cat # | |
| REPAIR/REPLACE BRIDGE RAIL | 2012 | Install 2 missing rail bolts - 1 post A/B nut, 5 Splice bolts at approach rails and 4 parapet bolts. | | | | | |
| GALVANIZE/PAINT BRIDGE RAIL | | | | | | | |
| RETROFIT BRIDGE RAIL | | | | | | | |
| SEAL CURBS | | | | | | | |
| PATCH DECK | | | | | | | |
| SEAL DECK | | | | | | | |
| OVERLAY DECK | | | | | | | |
| REPAIR/REPLACE DECK JOINTS | | | | | | | |
| RESET/ PAINT BEARINGS | | | | | | | |
| REPAINT SUPERSTRUCTURE | | | | | | | |
| STRAIGHTEN/REPLACE MEMBERS | 2012 | Repair cracked weld and install 2 diaphragm bolts. May 9, 2009 CP inspection | | | | | |
| WASHING | | | | | | | |
| SHOTCRETE REPAIRS | | | | | | | |
| REPAIR ABUTMENT SCOUR/EROSION | 2012 | 10m3 Cl. 1 at NE headslope | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | |
| OTHER ACTION | 2012 | Extend drains to discharge in troughs. 2 m of 110 O.D. plastic pipe. | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 55.6/55.6 | Sufficiency Rating (Last/Now) (%) | 61.4/60.7 | Est. Repl. Yr | 2036 | 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 | Randy Bredo | | Previous Assistant's Name | Bryce Clayton | | | |
| Next Inspection Date | 09-Sep-2015 | | Previous Inspection Date | 18-Jun-2009 | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | |
| Comment | | | | | | | |