

| Bridge Inspection | | | | | | | | | |
|-------------------------------------|---|--------|-------------------|----------|---|-----------------|---|----|--|
| Bridge File Number | 77419 -1 Bridge | | | | Form Type | SG | | | |
| Year Built/Year Supstr | 1980/1980 | | | | Lot No. | 2 | | | |
| Bridge or Town Name | RED EARTH CR | | | | Inspector Name | Brian Pientsch | | | |
| Located Over | WABASCA RIVER, 8.10.18, WATERCRS-ST | | | | Inspector Class | BR CLS A | | | |
| Located On | 88:12 C1 51.445 | | | | Assistant Name | | | | |
| Water Body Cl./Year | | | | | Assistant Class | | | | |
| Navigabil. Cl./Year | | | | | Inspection Date | 18-Jun-2012 | | | |
| Legal Land Location | SE SEC 27 TWP 97 RGE 9 W5M | | | | Data Entry By | Theresa Lacusta | | | |
| Longitude, Latitude | -115:21:42, 57:26:44 | | | | Data Entry Date | 06-Nov-2012 | | | |
| Road Authority | Alberta Transportation (AIT) | | | | Reviewer Name | Eric Carcoux | | | |
| Contract Main. Area | CMA02 | | | | Review Date | 01-Nov-2012 | | | |
| Clear Roadway/Skew | 9.1 / -25 deg. (LHF) | | | | Dept. Reviewer Name | David Morrison | | | |
| AADT/Year | 180 / 2011 (A) | | | | Dept. Review Date | 15-Jan-2013 | | | |
| Road Classification | RAU-210-110 | | | | Follow-Up By | | | | |
| Detour Length (km) | 999 | | | | | | | | |
| Allowable Load (t): | Single | CS1 28 | Semi | CS2 49 | Train | CS3 62 | ----> On Critical Spans ---->Critical Member | | |
| Design Loading: | MS23 | | | | | | ----> Primary Span | | |
| Posting Information | | | | | | | | | |
| Required Load Posting (t) | Single | | | | Semi | | Truck Train | | |
| Posted Loading (t) | Single | | | | Semi | | Truck Train | | |
| Posted: | Lane | NB | At Junction (Y/N) | No | In Advance (Y/N) | No | At Bridge (Y/N) | No | |
| Posted: | Lane | SB | At Junction (Y/N) | No | In Advance (Y/N) | No | At Bridge (Y/N) | No | |
| Remarks | | | | | | | | | |
| Hazard Marker At Bridge (Y/N) | Yes | | | | | | | | |
| Remarks | Spring loaded. Not attached to bridge rail. | | | | | | | | |
| Other Sign Types | "Wabasca River" 7% Grade. CURVE | | | | | | | | |
| Utilities (Located at) | | | | | | | | | |
| Utility Attachments | | | | | | | | | |
| Telephone | | | | | Gas | | | | |
| Power | | | | | Municipal | | | | |
| Others | | | | | Problem (Y/N) | No | | | |
| Remarks | | | | | | | | | |
| Approach Road | | | | | | | | | |
| | | | Last | Now | Explanation of Condition | | | | |
| Horizontal Alignment | | | 5 | 5 | Road winds down into valley. Long deep sag. | | | | |
| Vertical Alignment | | | 5 | 5 | | | | | |
| Roadway Width (m) | 10.100 | | | | Minor dents throughout. Insufficient length NE due to approach. 1 post @ NE corner broken @ TDE approach transtion rail connection to bridgerail missing one bolt @ all 4 corners. | | | | |
| Approach Bump | | | 7 | 7 | | | | | |
| Guardrail (Y/N) | Yes | | | | | | | | |
| Guardrail | | | 3 | 3 | | | | | |
| Length (m) | 41.000 | | | | | | | | |
| Current Standard (Y/N) | Yes | | | | | | | | |
| Termination Type | TURNED DOWN ENDS | | | | | | | | |
| Drainage | | | 3 | 3 | Water from east & west side of bridge creating gully @ SW & SE road shoulder - sideslope drain blocked by gravel windrow under guardrail. | | | | |
| Approach Road General Rating | | | 5 | 5 | | | | | |

| Superstructure | | | | | |
|--|-------|--------------|-------|--------------------------|---|
| Bridge Component | | Last | Now | Explanation of Condition | |
| (Primary Span : WG, 3 Spans, Lengths(m): 65-81-65, A-Ident Number: A0842-01) | | | | | |
| Special Features | | | | | |
| Special Feature | | | X | | |
| (Type :) | | | | | |
| Special Feature | | | X | | |
| (Type :) | | | | | |
| Wearing Surface/Deck Top Detail Ratings | | | | | |
| | N (%) | 1 (%) | 2 (%) | 3 (%) | |
| Last | 35 | 0 | 0 | 0 | |
| Now | 10.0 | 0.0 | 0.0 | 0.0 | |
| Wearing Surface | | | 5 | 5 | Longitudinal crack @ centerline and leteral crack spaced at approx. 3m. |
| (Material Type : ACP) | | | | | |
| (Thickness(mm) : 90) | | | | | |
| Deck Top | | | N | N | |
| Deck Rideability | | | 7 | 7 | |
| Deck Joints | | | 7 | 7 | |
| Temperature (deg. C) | | 15 | | | |
| (Expansion Type : FINGER PLATES) | | | | | |
| (Fixed Type :) | | | | | |
| Gap Size (mm) | | Gap Location | | | |
| 90 | | Abut 1 | | | |
| 80 | | Abut 2 | | | |
| | | | | | |
| Deck Drainage | | | 7 | 7 | No drains. |
| Drains Clogged (Y/N) | | No | | | |
| Curbs/Median | | | 6 | 6 | |
| (Curb Type : Standard) | | | | | |
| Scaling (Percent Area) | | 5 | | | |
| Bridge Rail | | | 7 | 7 | |
| (Type : GALVANIZED STEEL BRIDGE TUBE) | | | | | |
| Bridge Rail Posts | | | 7 | 7 | |
| (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL) | | | | | |
| Bridge Rail/Posts Coating | | | 7 | 7 | |
| (Type : GALVANIZED) | | | | | |
| Sidewalk | | | X | X | |
| Girder/Beam | | | | | |
| Cover Plate | | | X | X | Span 3 has a slight sweep west @ center of girders. |
| Flange | | | 7 | 7 | |
| Web | | | 8 | 8 | |
| Stiffeners | | | 8 | 8 | |
| Splice | | | 8 | 8 | |
| Weld | | | 8 | 8 | |
| Diaphragms/Cross Frame | | | 8 | 8 | |

| Superstructure | | | | |
|---|-----|----------|----------|---|
| Bridge Component | | Last | Now | Explanation of Condition |
| (Primary Span : WG, 3 Spans, Lengths(m): 65-81-65, A-Ident Number: A0842-01) | | | | |
| Paint Condition | | 7 | 7 | Weathering steel. |
| (Colour Description :) | | | | |
| (Colour Code :) | | | | |
| Touchup Required (Y/N) | No | | | |
| Bearings | | 6 | 6 | Pier 1 fixed. Pier bearings viewed from ends. |
| Temperature (deg. C) | 17 | | | |
| (Expansion Type : ROCKER BEARING) | | | | |
| (Fixed Type : PINNED BEARING) | | | | |
| Coating Adequate (Y/N) | Yes | | | |
| Functioning (Y/N) | Yes | | | |
| Deck Underside | | 7 | 7 | |
| Stains (Percent Area) | 0 | | | |
| Span Alignment Problems | | | | |
| Vertical (Y/N) | No | | | |
| Horizontal (Y/N) | No | | | |
| Superstructure General Rating | | 6 | 6 | |
| Substructure | | | | |
| Bridge Component | | Last | Now | Explanation of Condition |
| Abutments | | | | |
| Bearing Seats/Caps | | 7 | 7 | |
| (Type : CONCRETE) | | | | |
| Backwalls/Breastwalls | | 6 | 6 | The wingwalls have narrow diagonal, vertical and horizontal cracks. |
| Wingwalls | | 5 | 5 | |
| Piles | | N | N | |
| Paint/Coating | | 5 | 5 | |
| Abutment Stability | | 7 | 7 | |
| Scour/Erosion | | 6 | 6 | |
| Piers/Bents | | | | |
| (Type : PIER-SOLID) | | | | As viewed from banks. |
| Bearing Seats/Caps | | 8 | 8 | |
| (Type : CONCRETE) | | | | Bullet holes on P2 nose plate. |
| (Total Number of Bearing Piles : 0:0) | | | | |
| Pier Shaft/Piles | | 8 | 8 | |
| Bracing/Struts/Sheathing | | X | X | |
| Nose Plate | | 7 | 7 | |
| Paint/Coating | | 6 | 6 | |
| (Colour Description :) | | | | |
| (Colour Code :) | | | | |
| Pier Stability | | 8 | 8 | |
| 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 : E) | | | | |
| (D/S Direction : W) | | | | |
| Alignment | | 7 | 7 | |
| Bank Stability | | 7 | 7 | |
| HWM (m below Top of Curb) | | | | Large. HWM not visible. |
| Drift (Y/N) | Yes | | | |
| Slope Protection | | 7 | 7 | |
| (Type :) | | | | |
| 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 | Replace missing bolts. Replace broken NE approach post. | | | | | |
| 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 | | | | | | | |
| WASHING | | | | | | | |
| SHOTCRETE REPAIRS | | | | | | | |
| REPAIR ABUTMENT SCOUR/EROSION | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | |
| OTHER ACTION | 2012 | Install missing guardrail post. | | | | | |
| OTHER ACTION | 2012 | Remove gravel approach windrows & clean out sideslope drains on S. approach. | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 72.2/72.2 | Sufficiency Rating (Last/Now) (%) | 65.5/65.5 | Est. Repl. Yr | 2050 | Maint. Req. (Y/N) | Yes |
| Special Comments for Next Inspection | Girder sweep span 3. Monitor wingwall cracks. | | 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 | Brian Pientsch | | Previous Assistant's Name | | | | |
| Next Inspection Date | 18-Mar-2014 | | Previous Inspection Date | 07-Oct-2010 | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | |
| Comment | | | | | | | |