

| Bridge Inspection | | | | | | | |
|------------------------|--|---------------|------|---------------------|---------------|---------------|---|
| Bridge File Number | 72577 -1 Bridge | | | Form Type | PCS | | |
| Year Built/Year Supstr | 1960/1960 | | | Lot No. | 2 | | |
| Bridge or Town Name | RICHDALÉ | | | Inspector Name | Jason Saly | | |
| Located Over | TRIBUTARY TO BERRY CREEK, 3.14.15, WATERCRS-ST | | | Inspector Class | BR CLS A | | |
| Located On | 586:01 C1 18.702 | | | Assistant Name | | | |
| Water Body Cl./Year | | | | Assistant Class | | | |
| Navigabil. Cl./Year | | | | Inspection Date | 08-Jun-2011 | | |
| Legal Land Location | SW SEC 23 TWP 32 RGE 12 W4M | | | Data Entry By | Marcia Chavez | | |
| Longitude, Latitude | -111:36:41, 51:45:28 | | | Data Entry Date | 02-Jul-2011 | | |
| Road Authority | Alberta Transportation (AIT) | | | Reviewer Name | John O'Brien | | |
| Contract Main. Area | CMA21 | | | Review Date | 17-Jun-2011 | | |
| Clear Roadway/Skew | 9.1 / 0 deg. | | | Dept. Reviewer Name | Chris Black | | |
| AADT/Year | 130 / 2010 (A) | | | Dept. Review Date | 04-Jul-2011 | | |
| Road Classification | RCU-208-110 | | | Follow-Up By | | | |
| Detour Length (km) | 6 | | | | | | |
| Allowable Load (t): | Single | CS1 28 GIRDER | Semi | CS2 49 GIRDER | Train | CS3 62 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 | 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 | No posting. | | | | | | | |

| | |
|-------------------------------|---|
| Hazard Marker At Bridge (Y/N) | Yes |
| Remarks | Missing NW, both E too low & NE attached with a bungee strap. |
| Other Sign Types | |

| Utilities (Located at) | | | |
|------------------------|---------------------|---------------|----|
| Utility Attachments | | | |
| Telephone | Approx 1/2km North. | Gas | |
| Power | Approx 1/2km North. | Municipal | |
| Others | | Problem (Y/N) | No |
| Remarks | | | |

| Approach Road | | | | |
|-------------------------------------|---------------|----------|----------|---|
| | | Last | Now | Explanation of Condition |
| Horizontal Alignment | | 8 | 8 | Farm entrance 350m N & to W. Grade increases to South. Crest to south |
| Vertical Alignment | | 7 | 7 | |
| Roadway Width (m) | 8.200 | | | Too short not enough posts. |
| Approach Bump | | 7 | 7 | |
| Guardrail (Y/N) | Yes | | | |
| Guardrail | | 7 | 7 | |
| Length (m) | 7.600 | | | |
| Current Standard (Y/N) | No | | | |
| Termination Type | TURNDOWN ENDS | | | |
| Drainage | | 8 | 7 | |
| Approach Road General Rating | | 7 | 7 | |

| Superstructure | | | | | |
|--|-----------|-------------|-----------|--------------------------|---|
| Bridge Component | | Last | Now | Explanation of Condition | |
| (Primary Span : PG, 1 Spans, Lengths(m): 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 | 0 | 0 | 0 | 0 | |
| Now | 0.0 | 0.0 | 0.0 | 0.0 | |
| Wearing Surface | | | 7 | 6 | Asphalt on girder tops. 50mm cold mix. |
| (Material Type : ACP) | | | | | |
| (Thickness(mm) : 50) | | | | | |
| Lateral Connection Problem (Y/N) | | No | | | |
| Deck Top | | | X | N | |
| Deck Rideability | | | 7 | 6 | |
| Deck Joints | | | X | X | No formal deck joints. |
| Bump (Y/N) | | | | | |
| Deck Drainage | | | 7 | 7 | |
| Drains Clogged (Y/N) | | No | | | |
| Curbs/Median | | | 6 | 5 | Minor chips below B.P. along W curb. Lift pockets not grouted, holding water. |
| (Curb Type : Standard) | | | | | |
| Scaling (Percent Area) | | 0 | | | |
| Bridge Rail | | | 7 | 7 | Single layer. ABs are not coated. |
| (Type : GALVANIZED STEEL FLEX BEAM) | | | | | |
| Bridge Rail Posts | | | 7 | 7 | |
| (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 | 0 | 0 | 0 | 0 | Could not inspect underside due to water levels under bridge. Water from backwall to backwall. |
| Now | 14 | 0 | 0 | 0 | |
| Girders | | | 4 | 4 | (G1-2,5,9-10 have wide cracks in AZ 1 leg. All are G girders except G2 & G10 which are "PA". Spall in leg G2 outside AZ. G10 wide crack in AZ in both legs w/sound conc. 21Sep2008). Rating carried forward based on prev. inspector's comments. |
| Last Complete Inspection Date | | 21-Sep-2008 | | | |
| Cracking (Y/N) | | Yes | | | |
| Spalling (Percent Area) | | 2 | | | |
| Lift or Connector Pocket Grouted (Y/N) | | No | | | |
| (Number Of Girders : 11) | | | | | |
| Span Alignment Problems | | | | | |
| Vertical (Y/N) | | No | | | |
| Horizontal (Y/N) | | No | | | |
| Superstructure General Rating | | | 4 | 4 | GR carried forward from 21Sep2008 based on girder rating. |

| Substructure | | | | | | |
|---|-----------|-----------|-----------|--|---|---|
| Bridge Component | | Last | Now | Explanation of Condition | | |
| Abutments | | | | | | |
| (Extended Backwall Piles (Y/N) : N) | | | | (No crown buins into bridge. 21Sep2008). | | |
| (Extended Backwall Piles Spacing(mm) :) | | | | | | |
| (Total Number of Caps/Corbels : 3:3) | | | | Viewed from corners of bridge. | | |
| Bearing Seats/Caps/Corbels Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | 0 | 0 | 0 | 0 | | |
| Now | 6 | 0 | 0 | 0 | | |
| Bearing Seats/Caps/Corbels | | | | 7 | N | |
| (Type : TREATED TIMBER) | | | | | | |
| (Depth(mm) : 305) | | | | | | |
| (Width(mm) : 355) | | | | | | |
| Backwalls/Breastwalls | | | | 7 | 7 | Viewed from corners of bridge. |
| Greatest Height (m) | | 2.50 | | | | |
| Wingwalls | | | | 7 | 5 | Minor damage to some sheathing. |
| (Total Number of Bearing Piles : 8:8) | | | | All TT except 1 is HP (P7 at A2). | | |
| Piles Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | 0 | 0 | 0 | 0 | | |
| Now | 16 | 0 | 0 | 0 | | |
| Piles | | | | 7 | N | |
| Paint/Coating | | | | X | 4 | Corrosion of steel pipe at N abut just above the current waterline. |
| Abutment Stability | | | | 7 | 7 | |
| Scour/Erosion | | | | 7 | 7 | |
| Piers/Bents | | | | | | |
| (Type :) | | | | | | |
| (Total Number of Caps/Corbels :) | | | | | | |
| Bearing Seats/Caps/Corbels Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | | | | | | |
| Now | | | | | | |
| Bearing Seats/Caps/Corbels | | | | X | X | |
| (Type :) | | | | | | |
| (Depth(mm) :) | | | | | | |
| (Width(mm) :) | | | | | | |
| (Total Number of Bearing Piles :) | | | | | | |
| Piles Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | | | | | | |
| Now | | | | | | |
| Pier Shaft/Piles | | | | X | X | |
| Greatest Height (m) | | | | | | |
| Bracing/Struts/Sheathing | | | | X | X | |
| Nose Plate | | | | X | X | |
| Paint/Coating | | | | X | X | |
| (Colour Description :) | | | | | | |
| (Colour Code :) | | | | | | |

| Substructure | | | | |
|--|----|----------|----------|------------------------------------|
| Bridge Component | | Last | Now | Explanation of Condition |
| Pier Stability | | X | X | |
| Scour | | X | X | |
| Debris (Y/N) | No | | | |
| Substructure General Rating | | 7 | 7 | GR carried forward from 21Sep2008. |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel | | | | |
| (U/S Direction : W) | | | | |
| (D/S Direction : E) | | | | |
| Alignment | | 7 | 7 | |
| Bank Stability | | 7 | 7 | |
| HWM (m below Top of Curb) | | | | HWM not visible. |
| Drift (Y/N) | No | | | |
| Slope Protection | | 6 | 6 | |
| (Type : NATURAL; NATURAL) | | | | |
| Guidebank/Spurs | | X | X | |
| Adequacy of Opening | | 7 | 7 | |
| (Fish Compensation Measure 1 : NONE) | | | | |
| (Fish Compensation Measure 2 : NONE) | | | | |
| Channel General Rating | | 6 | 6 | |

| Maintenance Recommendations | | | | | | | | | | |
|---|------------------|--------------------------------------|---------------------------|----------------------|-------------|--------------------------|------------|--|--|--|
| Inspector Recommendations | Year | Inspector Comments | Department Comments | Target Year | Est. Cost | Cat # | | | | |
| REPAIR/REPLACE BRIDGE RAIL | | | | | | | | | | |
| SEAL CURBS | 2011 | Grout lift pockets on curbs. | | | | | | | | |
| PATCH DECK | | | | | | | | | | |
| OVERLAY DECK | | | | | | | | | | |
| STRAIGHTEN/REPLACE MEMBERS | | | | | | | | | | |
| WASHING | | | | | | | | | | |
| SHOTCRETE REPAIRS | | | | | | | | | | |
| CORE TIMBER CAPS/CORBELS | | | | | | | | | | |
| REPAIR/REPLACE TIMBER CAPS | | | | | | | | | | |
| REPAIR ABUTMENT SCOUR/EROSION | | | | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | | | | |
| INSTALL STRUTS | | | | | | | | | | |
| OTHER ACTION | 2011 | Install hazard markers. | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| Structural Condition Rating (Last/Now) | 61.1/61.1 | Sufficiency Rating (Last/Now) | 68.6/68.6 | Est. Repl. Yr | 2024 | 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 | Cameron Baron | | Previous Assistant's Name | | | | | | | |
| Next Inspection Date | 08-Sep-2014 | | Previous Inspection Date | 21-Sep-2008 | | | | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | | | | |
| Comment | | | | | | | | | | |

Maintenance Recommendations

| Inspector Recommendations | Year | Inspector Comments | Department Comments | Target Year | Est. Cost | Cat # |
|---|------------------|--|---------------------------|---|-----------------|-----------------------|
| REPAIR/REPLACE BRIDGE RAIL | | | | | | |
| SEAL CURBS | 2011 | Grout lift pockets on curbs. | Defer to when onsite next | 2012 | | |
| PATCH DECK | | | | | | |
| OVERLAY DECK | | | | | | |
| STRAIGHTEN/REPLACE MEMBERS | | | | | | |
| WASHING | | | | | | |
| SHOTCRETE REPAIRS | | | | | | |
| CORE TIMBER CAPS/CORBELS | | | | | | |
| REPAIR/REPLACE TIMBER CAPS | | | | | | |
| REPAIR ABUTMENT SCOUR/EROSION | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | |
| INSTALL STRUTS | | | | | | |
| OTHER ACTION | 2011 | Install hazard markers. | Operations | | | |
| OTHER ACTION | | | | | | |
| OTHER ACTION | | | | | | |
| OTHER ACTION | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 61.1/61.1 | Sufficiency Rating (Last/Now) (%) | 68.6/68.6 | Est. Repl. Yr | 2024 | Maint. Req. (Y/N) Yes |
| Special Comments for Next Inspection | | | Department Comments | Currently programmed in PMA for replacement in 2017. DA | | |
| Maintenance Reviewed By | Darron Ahlstedt | | Date | 15-Jun-2012 | Estimated Total | 0 |
| Proposed Long-Term Strategy | | | | | | |
| On 3-Year Program (Y/N) | | | | | | |
| Proposed Action | | | | | | |
| Previous Inspector's Name | Cameron Baron | | Previous Assistant's Name | | | |
| Next Inspection Date | 08-Sep-2014 | | Previous Inspection Date | 21-Sep-2008 | | |
| Inspection Cycle (Default) (months) | 39 | | | | | |

| | |
|---------|--|
| Comment | |
|---------|--|