

| Bridge Inspection | | | | | | | | | | |
|------------------------|------------------------------|--|------|--|-------|---|---------------|--|--|--|
| Bridge File Number | 76381 -1 Bridge | | | | | Form Type | SG | | | |
| Year Built/Year Supstr | 1967/1967 | | | | | Lot No. | 2 | | | |
| Bridge or Town Name | CANMORE | | | | | Inspector Name | Garry Roberts | | | |
| Located Over | 1:02 R1 3.777;1:02 L1 3.720 | | | | | Inspector Class | BR CLS A | | | |
| Located On | 25132:02 C1 0.156 | | | | | Assistant Name | | | | |
| Water Body Cl./Year | | | | | | Assistant Class | | | | |
| Navigabil. Cl./Year | | | | | | Inspection Date | 06-Feb-2012 | | | |
| Legal Land Location | NW SEC 5 TWP 25 RGE 10 W5M | | | | | Data Entry By | Lauren Korte | | | |
| Longitude, Latitude | -115:22:08, 51:06:37 | | | | | Data Entry Date | 13-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 / -23 deg. (LHF) | | | | | Dept. Reviewer Name | Tim Davies | | | |
| AADT/Year | | | | | | Dept. Review Date | 22-Mar-2012 | | | |
| Road Classification | RAU-210-110 | | | | | Follow-Up By | | | | |
| Detour Length (km) | 12 | | | | | | | | | |
| Allowable Load (t): | Single | | Semi | | Train | | | | | |
| Design Loading: | HS20 | | | | | ----> On Critical Spans ---->Critical Member ----> Primary Span | | | | |

| Posting Information | | | | | | | | | | | | | |
|--------------------------------------|------|--|-------------------|-----------------------------|------------------|-----|-----------------|----|---------------|-------------|------------------|-----|--|
| Required Vert. Clearance Posting (m) | | | | UNDER: 1 L1 5.3m, 1 R1 5.3m | | | | | | | | | |
| Posted Vertical Clearance (Y/N) | | | | Yes | | | | | | | | | |
| Posted: | Lane | EB | On Bridge (m) | 5.3 | In Advance (Y/N) | Yes | Lane | WB | On Bridge (m) | 5.3 | In Advance (Y/N) | Yes | |
| Remarks | | 5.2 M SIGN AT EASTBOUND ADVANCE LOOP + 5.3M @ N/B LOOP | | | | | | | | | | | |
| 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 | | Not required. | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|-------------------------------|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Hazard Marker At Bridge (Y/N) | No | | | | | | | | | | | | |
| Remarks | | | | | | | | | | | | | |
| Other Sign Types | 40 KM/HR, ROUTE | | | | | | | | | | | | |

| Utilities (Located at) | | | | | | | | | | |
|------------------------|--|-----------------|--|--|--|---------------|----|--|--|--|
| Utility Attachments | TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE | | | | | | | | | |
| Telephone | | | | | | Gas | | | | |
| Power | THROUGH BOTH ABUTMENTS and North Row | | | | | Municipal | | | | |
| Others | LIGHTS ATTACHED UNDERSIDE DECK | | | | | Problem (Y/N) | No | | | |
| Remarks | | Light standards | | | | | | | | |

| Approach Road | | | | |
|-------------------------------------|--------------|----------|----------|--|
| | | Last | Now | Explanation of Condition |
| Horizontal Alignment | | 5 | 5 | Collectors entering roadway on grades |
| Vertical Alignment | | 6 | 6 | |
| Roadway Width (m) | 12.800 | | | Wrong lap and bolts not fully tight at SE and NE. Missing 4 splice bolts at NE and NW. |
| Approach Bump | | 7 | 6 | |
| Guardrail (Y/N) | Yes | | | |
| Guardrail | | 4 | 4 | |
| Length (m) | 50.000 | | | |
| Current Standard (Y/N) | Yes | | | |
| Termination Type | STANDARD END | | | |
| Drainage | | 7 | 7 | |
| Approach Road General Rating | | 5 | 5 | |

| Superstructure | | | | | |
|--|-------|--------------|-------|--------------------------|--|
| Bridge Component | | Last | Now | Explanation of Condition | |
| (Primary Span : FR, 3 Spans, Lengths(m): 33.2-11-33.2, A-Ident Number: A0578-01) | | | | | |
| 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 | | | 5 | 5 | Wide Spread medium width cracks and isolated scaling - worst @ S Span Minor spall at South approach span |
| (Material Type : CONCRETE) | | | | | |
| (Thickness(mm) : 50) | | | | | |
| Deck Top | | | N | N | |
| Deck Rideability | | | 6 | 6 | |
| Deck Joints | | | 4 | 4 | Plumbing starting to get corrosion holes @ backwall drains deflectors Heavy corrosion under fingers. SW and NE abutment fingers sit up 10mm but both are in direction of travel 10mm gap between deck and South joint 20mm wide X 2m long gap at AI in NBC. |
| Temperature (deg. C) | | -12 | | | |
| (Expansion Type : FINGER PLATES) | | | | | |
| (Fixed Type :) | | | | | |
| Gap Size (mm) | | Gap Location | | | |
| 70 | | S. abut | | | |
| 50 | | N. abut | | | |
| Deck Drainage | | | 6 | 6 | RETROFIT DRAINS |
| Drains Clogged (Y/N) | | No | | | |
| Curbs/Median | | | 6 | 6 | CONCRETE PARAPET |
| (Curb Type : None) | | | | | |
| Scaling (Percent Area) | | 1 | | | |
| Bridge Rail | | | X | X | |
| (Type :) | | | | | |
| Bridge Rail Posts | | | X | X | |
| (Type :) | | | | | |
| Bridge Rail/Posts Coating | | | X | X | |
| (Type :) | | | | | |
| Sidewalk | | | X | X | |
| Girder/Beam | | | | | |
| Cover Plate | | | 7 | 7 | Rigid Frame. |
| Flange | | | 7 | 7 | |
| Web | | | 7 | 7 | |
| Stiffeners | | | 7 | 7 | |
| Splice | | | 7 | 7 | |
| Weld | | | 7 | 7 | |
| Diaphragms/Cross Frame | | | 7 | 7 | |

| Superstructure | | | | |
|--|-----|----------|----------|---|
| Bridge Component | | Last | Now | Explanation of Condition |
| (Primary Span : FR, 3 Spans, Lengths(m): 33.2-11-33.2, A-Ident Number: A0578-01) | | | | |
| Paint Condition | | 4 | 4 | Rusting at girder flanges and bolts and at abut. ends. totalling 5% of area. |
| (Colour Description : GREEN) | | | | |
| (Colour Code : 14090) | | | | |
| Touchup Required (Y/N) | No | | | |
| Bearings | | 7 | 7 | Exp. at abutments Exterior bearing are corroded |
| Temperature (deg. C) | -12 | | | |
| (Expansion Type : ROCKER BEARING) | | | | |
| (Fixed Type : PINNED BEARING) | | | | |
| Coating Adequate (Y/N) | No | | | |
| Functioning (Y/N) | Yes | | | |
| Deck Underside | | 4 | 4 | Corrosion stains @ Pier bents and Weep tubes Corrosion stains with surface spalls @ south span @ West side Medium transverse cracks every est. 1.0 m. CONCRETE BREAKING @ TOP FLANGE @ PIER BENTS. |
| Stains (Percent Area) | 5 | | | |
| Span Alignment Problems | | | | |
| Vertical (Y/N) | Yes | | | 10mm misalignment of finger joints |
| Horizontal (Y/N) | No | | | |
| Superstructure General Rating | | 4 | 4 | |
| Substructure | | | | |
| Bridge Component | | Last | Now | Explanation of Condition |
| Abutments | | | | |
| Bearing Seats/Caps | | 7 | 7 | |
| (Type : CONCRETE) | | | | |
| Backwalls/Breastwalls | | 6 | 6 | |
| Wingwalls | | 7 | 7 | |
| Piles | | N | N | Buried. |
| Paint/Coating | | 5 | 5 | Pigmented Sealer |
| Abutment Stability | | 8 | 8 | |
| Scour/Erosion | | X | X | |
| Piers/Bents | | | | |
| (Type : PIER-TRESTLE) | | | | Concrete footing cracked or broken @ several locations |
| Bearing Seats/Caps | | 7 | 7 | |
| (Type : STEEL) | | | | |
| (Total Number of Bearing Piles : 0:0) | | | | |
| Pier Shaft/Piles | | 6 | 6 | |
| Bracing/Struts/Sheathing | | X | X | |
| Nose Plate | | X | X | |
| Paint/Coating | | 5 | 4 | Isolated corrosion. |
| (Colour Description : GREEN) | | | | |
| (Colour Code : 14090) | | | | |
| Pier Stability | | 7 | 7 | |
| Scour | | X | X | |
| Debris (Y/N) | No | | | |

| Substructure | | | | |
|--|-----------|-------------|------------|---------------------------------|
| Bridge Component | | Last | Now | Explanation of Condition |
| Substructure General Rating | | 6 | 6 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Grade Separation | | | | |
| Road Alignment | | 7 | 7 | lens @ lights @ EBL-cracked |
| Traffic Safety Features | | 5 | 7 | |
| Type | Guardrail | | | |
| Slope Protection | | 5 | 6 | Avg 60mm gap @ S abut @ top |
| (Type : CONCRETE; CONCRETE) | | | | |
| Bank Stability | | 7 | 7 | |
| Drainage | | 7 | 7 | |
| Grade Separation General Rating | | 5 | 6 | |

| Maintenance Recommendations | | | | | | | |
|---|------------------|---|---------------------------|---------------|-----------|-------------------|-----|
| Inspector Recommendations | Year | Inspector Comments | Department Comments | Target Year | Est. Cost | Cat # | |
| REPAIR/REPLACE BRIDGE RAIL | | | | | | | |
| GALVANIZE/PAINT BRIDGE RAIL | | | | | | | |
| RETROFIT BRIDGE RAIL | | | | | | | |
| SEAL CURBS | | | | | | | |
| PATCH DECK | | | | | | | |
| SEAL DECK | 2012 | Seal cracks and scaling- epoxy flood. Seal gap between deck and South joint | | | | | |
| OVERLAY DECK | | | | | | | |
| REPAIR/REPLACE DECK JOINTS | 2012 | Repair/ Replace finger joints and backwall troughs. | | | | | |
| RESET/ PAINT BEARINGS | 2012 | Blast and recoat abutment bearings | | | | | |
| REPAINT SUPERSTRUCTURE | | | | | | | |
| STRAIGHTEN/REPLACE MEMBERS | | | | | | | |
| WASHING | | | | | | | |
| SHOTCRETE REPAIRS | | | | | | | |
| REPAIR ABUTMENT SCOUR/EROSION | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | |
| OTHER ACTION | 2012 | Replace 2 underdeck light lens @ EBL @ HWY 1 | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | 2012 | Patch deck under side @ South Span @ Westside @ Surface spalls | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 55.6/55.6 | Sufficiency Rating (Last/Now) (%) | 61.8/64.1 | Est. Repl. Yr | 2025 | 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 | 06-Nov-2013 | | Previous Inspection Date | 24-Sep-2010 | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | |
| Comment | | | | | | | |