

| Bridge Inspection | | | | | | | |
|------------------------|--------------------------------------|---------------|------|---------------------|----------------|---------------|---|
| Bridge File Number | 72242 -1 Bridge | | | Form Type | PCS | | |
| Year Built/Year Supstr | 1971/1971 | | | Lot No. | 2 | | |
| Bridge or Town Name | ROCKY MT HOU | | | Inspector Name | Owen Salava | | |
| Located Over | CHAMBERS CREEK, 6.150.6, WATERCRS-ST | | | Inspector Class | BR CLS A | | |
| Located On | 11:08 C1 29.638 | | | Assistant Name | | | |
| Water Body Cl./Year | | | | Assistant Class | | | |
| Navigabil. Cl./Year | | | | Inspection Date | 06-Feb-2012 | | |
| Legal Land Location | NE SEC 13 TWP 40 RGE 10 W5M | | | Data Entry By | Marcia Chavez | | |
| Longitude, Latitude | -115:17:57, 52:26:49 | | | Data Entry Date | 01-Mar-2012 | | |
| Road Authority | Alberta Transportation (AIT) | | | Reviewer Name | John O'Brien | | |
| Contract Main. Area | CMA18 | | | Review Date | 22-Feb-2012 | | |
| Clear Roadway/Skew | 13.7 / -15 deg. (LHF) | | | Dept. Reviewer Name | Andrew Smikles | | |
| AADT/Year | 1,290 / 2010 (A) | | | Dept. Review Date | 09-Mar-2012 | | |
| Road Classification | RAU-213.4-120 | | | Follow-Up By | | | |
| Detour Length (km) | 80 | | | | | | |
| Allowable Load (t): | Single | CS1 30 GIRDER | Semi | CS2 49 GIRDER | Train | CS3 70 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 | | | | | | | | |
| Hazard Marker At Bridge (Y/N) | No | | | | | | | |
| Remarks | Not required. | | | | | | | |
| Other Sign Types | Chambers Creek. | | | | | | | |

| Utilities (Located at) | | | |
|------------------------|--|--|------------------|
| Utility Attachments | | | |
| Telephone | South side of road. | | Gas |
| Power | 3 wires 30m South of c/l. | | Municipal |
| Others | (Flagged comm. cable North ditch. 22/Oct/2003) | | Problem (Y/N) No |
| Remarks | | | |

| Approach Road | | | | |
|-------------------------------------|-----------|----------|----------|--|
| | | Last | Now | Explanation of Condition |
| Horizontal Alignment | | 7 | 7 | Built over a gradual curve. Superlevated. |
| Vertical Alignment | | 7 | 7 | |
| Roadway Width (m) | 13.500 | | | NW approach rail is 30.4m, NE 45.6m, SE 38.0m, SW 68.8m. Not thrie beam. |
| Approach Bump | | 6 | 6 | |
| Guardrail (Y/N) | Yes | | | |
| Guardrail | | 6 | 6 | |
| Length (m) | 30.400 | | | |
| Current Standard (Y/N) | No | | | |
| Termination Type | Turn Down | | | |
| Drainage | | 3 | 3 | Water eroding East & West headslopes - photo. |
| Approach Road General Rating | | 7 | 7 | |

| Superstructure | | | | | | |
|---|-----------|-------------|-----------|--------------------------|---|-------------------------|
| Bridge Component | | Last | Now | Explanation of Condition | | |
| (Primary Span : HCO, 3 Spans, Lengths(m): 10.1-10.1-10.1, A-Ident Number:) | | | | | | |
| Special Features | | | | | | |
| Special Feature | | | X | | | |
| (Type :) | | | | | | |
| Special Feature | | | X | | | |
| (Type :) | | | | | | |
| Wearing Surface/Deck Top Detail Ratings | | | | | | |
| | N (%) | 1 (%) | 2 (%) | 3 (%) | Gravel/snow along curbs. | |
| Last | | | | | | |
| Now | 20.0 | 0.0 | 0.0 | 0.0 | | |
| Wearing Surface | | | | 6 | 6 | Random narrow cracking. |
| (Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT) | | | | | | |
| (Thickness(mm) : 50) | | | | | | |
| Lateral Connection Problem (Y/N) | | No | | | | |
| Deck Top | | | N | N | | |
| Deck Rideability | | | 7 | 7 | Bumps caused by settled approaches, minor. | |
| Deck Joints | | | X | X | | |
| Bump (Y/N) | | No | | | | |
| Deck Drainage | | | 4 | 4 | Deck drains extended North curb only. Eroding headslope @ SP1G16 - photo. | |
| Drains Clogged (Y/N) | | No | | | | |
| Curbs/Median | | | 5 | 5 | Minor snow plow damage. | |
| (Curb Type : Standard) | | | | | | |
| Scaling (Percent Area) | | 3 | | | | |
| Bridge Rail | | | 6 | 6 | Single layer. Splices away from posts. | |
| (Type : GALVANIZED STEEL FLEX BEAM) | | | | | | |
| Bridge Rail Posts | | | 3 | 6 | | |
| (Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL) | | | | | | |
| Bridge Rail/Posts Coating | | | 6 | 6 | | |
| (Type : GALVANIZED) | | | | | | |
| Sidewalk | | | X | X | | |
| Girder Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | | | | 16 | | |
| Now | 0 | 0 | 0 | 26 | | |
| Girders | | | 3 | 3 | S3G3,6-7,9-12,14,16 spalls in AZ - photo. S2G7-16 spalls in AZ. Multiple legs recast, spalls at cap locations - photos. | |
| Last Complete Inspection Date | | 06-Feb-2012 | | | | |
| Cracking (Y/N) | | Yes | | | | |
| Spalling (Percent Area) | | 1 | | | | |
| Lift or Connector Pocket Grouted (Y/N) | | No | | | | |
| (Number Of Girders : 48) | | | | | | |
| Span Alignment Problems | | | | | | |
| Vertical (Y/N) | | Yes | | | S3G1 out horizontally 30mm. Vertical heave @ E pier. | |
| Horizontal (Y/N) | | Yes | | | | |
| Superstructure General Rating | | | 3 | 3 | | |

| Substructure | | | | | | |
|--|-----------|-----------|-----------|-----------|-----|---|
| Bridge Component | | | | Last | Now | Explanation of Condition |
| Abutments | | | | | | |
| (Extended Backwall Piles (Y/N) : Y) | | | | | | |
| (Extended Backwall Piles Spacing(mm) : 1500) | | | | | | |
| (Total Number of Caps/Corbels : 3:3) | | | | | | |
| Bearing Seats/Caps/Corbels Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | | | | | | |
| Now | 0 | 0 | 0 | 0 | | Caps with horizontal checking. A1P1 has 25mm gap below the cap. |
| Bearing Seats/Caps/Corbels | | | | 5 | 4 | |
| (Type : TREATED TIMBER) | | | | | | |
| (Depth(mm) : 350) | | | | | | |
| (Width(mm) : 300) | | | | | | |
| Backwalls/Breastwalls | | | | 4 | 4 | Erosion of NE headslope below backwall planks - photo. |
| Greatest Height (m) | | 2.60 | | | | |
| Wingwalls | | | | 7 | 7 | |
| (Total Number of Bearing Piles : 11:11) | | | | | | |
| Piles Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | | | | 1 | | |
| Now | 0 | 0 | 0 | 0 | | A1P11 cracked - banded. A1P6 not bearing, 25mm gap (photo). |
| Piles | | | | 3 | 4 | |
| Paint/Coating | | | | X | X | |
| Abutment Stability | | | | 5 | 5 | Minor rotation of A1 cap. |
| Scour/Erosion | | | | 3 | 3 | Surface erosion @ NW, NE corners - photo. Below A2 backwall planks. |
| 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 | 0 | 0 | 0 | 0 | | |
| Bearing Seats/Caps/Corbels | | | | 5 | 5 | |
| (Type : TREATED TIMBER) | | | | | | |
| (Depth(mm) : 300) | | | | | | |
| (Width(mm) : 350) | | | | | | |
| (Total Number of Bearing Piles : 14:14) | | | | | | |
| Piles Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | | | | 1 | | |
| Now | 0 | 0 | 0 | 0 | | P2p1. (Outer fibre broken due to uneven & excessive earth pressure. 01Apr2010). Steel jacket installed at P2p1,5,8. |
| Pier Shaft/Piles | | | | 3 | 5 | |
| Greatest Height (m) | | 4.50 | | | | |
| Bracing/Struts/Sheathing | | | | 5 | 5 | |
| Nose Plate | | | | X | X | |
| Paint/Coating | | | | X | X | |
| (Colour Description :) | | | | | | |
| (Colour Code :) | | | | | | |

| Substructure | | | | |
|--|-----|----------|----------|---|
| Bridge Component | | Last | Now | Explanation of Condition |
| Pier Stability | | 4 | 4 | S half of W pier, piles out of plumb 200mm - photo. P2 leaning E approx 150mm - photo. |
| Scour | | 6 | N | |
| Debris (Y/N) | Yes | | | Minor drift accumulation at P1. |
| Substructure General Rating | | 3 | 4 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel | | | | |
| (U/S Direction : S) | | | | 90 degree bend 20m U/S to SW. |
| (D/S Direction : N) | | | | |
| Alignment | | 5 | 5 | |
| Bank Stability | | 6 | 6 | |
| HWM (m below Top of Curb) | 4.5 | | | |
| Drift (Y/N) | Yes | | | |
| Slope Protection | | 6 | 6 | Class I east bank, natural west bank. |
| (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 | | 5 | 5 | |

Comment

| | |
|--|--|
| | |
|--|--|

Maintenance Recommendations

| Inspector Recommendations | Year | Inspector Comments | Department Comments | Target Year | Est. Cost | Cat # | |
|---|--|--|---------------------|---|-----------------|-------------------|-----|
| REPAIR/REPLACE BRIDGE RAIL | | | | | | | |
| SEAL 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 | 2012 | Install 8m3 fill @ West & East abutment to repair erosion. | Programmed | 2014 | | | |
| OTHER ACTION | 2012 | Install shim btwn cap & pile use slotted bearing plate. | Programmed | 2014 | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 33.3/38.9 | Sufficiency Rating (Last/Now) (%) | 51.3/53.5 | Est. Repl. Yr | 2020 | Maint. Req. (Y/N) | Yes |
| Special Comments for Next Inspection | Girders rated 3, AZ spalls - no action at this time. | | Department Comments | Scheduled for replacement in PMA for 2022. DA | | | |
| Maintenance Reviewed By | Darron Ahlstedt | | Date | 05-Nov-2012 | Estimated Total | 0 | |
| Proposed Long-Term Strategy | | | | | | | |

| | | | |
|-------------------------------------|-------------|---------------------------|-------------|
| On 3-Year Program (Y/N) | | | |
| Proposed Action | | | |
| Previous Inspector's Name | Owen Salava | Previous Assistant's Name | |
| Next Inspection Date | 06-Nov-2013 | Previous Inspection Date | 01-Apr-2010 |
| Inspection Cycle (Default) (months) | 21 | | |
| Comment | | | |