

| Bridge Inspection | | | | | | | | | | | |
|------------------------|--|--------|--|--|---------------------|---------------------|--|--|-------|--------------------|---|
| Bridge File Number | 81584 -1 Bridge | | | | Form Type | PCS | | | | | |
| Year Built/Year Supstr | 1989/1989 | | | | Lot No. | 2 | | | | | |
| Bridge or Town Name | GROUARD | | | | Inspector Name | Brian Pientsch | | | | | |
| Located Over | LESSER SLAVE RIVER, 8.11.80, WATERCRS-ST | | | | Inspector Class | BR CLS A | | | | | |
| Located On | 750:02 C1 14.901 | | | | Assistant Name | Russel Vanderschaaf | | | | | |
| Water Body Cl./Year | | | | | Assistant Class | BR CLS B | | | | | |
| Navigabil. Cl./Year | | | | | Inspection Date | 30-Nov-2010 | | | | | |
| Legal Land Location | NW SEC 19 TWP 75 RGE 14 W5M | | | | Data Entry By | Theresa Lacusta | | | | | |
| Longitude, Latitude | -116:09:54, 55:30:46 | | | | Data Entry Date | 17-Jan-2011 | | | | | |
| Road Authority | Alberta Transportation (AIT) | | | | Reviewer Name | Arnold Assenheimer | | | | | |
| Contract Main. Area | CMA06 | | | | Review Date | 22-Dec-2010 | | | | | |
| Clear Roadway/Skew | 9.6 / 0 deg. | | | | Dept. Reviewer Name | David Morrison | | | | | |
| AADT/Year | 1,210 / 2009 (A) | | | | Dept. Review Date | 31-Mar-2011 | | | | | |
| Road Classification | RCU-209-110 | | | | Follow-Up By | | | | | | |
| Detour Length (km) | 30 | | | | | | | | | | |
| Allowable Load (t): | Single | CS1 28 | | | Semi | CS2 49 | | | Train | CS3 62 | ----> On Critical Spans ---->Critical Member |
| Design Loading: | MS300 | | | | | | | | | ----> 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 | Not required. | | | | | | | | |
| Hazard Marker At Bridge (Y/N) | No | | | | | | | | |
| Remarks | | | | | | | | | |
| Other Sign Types | | | | | | | | | |

| Utilities (Located at) | | | | | | | | | | |
|------------------------|---------------------|--|--|--|---------------|----|--|--|--|--|
| Utility Attachments | | | | | | | | | | |
| Telephone | At west & east side | | | | Gas | | | | | |
| Power | E r/w 3 wire | | | | Municipal | | | | | |
| Others | | | | | Problem (Y/N) | No | | | | |
| Remarks | | | | | | | | | | |

| Approach Road | | | | | | | | | |
|-------------------------------------|-------------|--|----------|----------|---|--|--|--|--|
| | | | Last | Now | Explanation of Condition | | | | |
| Horizontal Alignment | | | 7 | 7 | | | | | |
| Vertical Alignment | | | 7 | 7 | | | | | |
| Roadway Width (m) | 9.100 | | | | | | | | |
| Approach Bump | | | 7 | 7 | | | | | |
| Guardrail (Y/N) | Yes | | | | | | | | |
| Guardrail | | | 7 | 7 | | | | | |
| Length (m) | 22.800 | | | | | | | | |
| Current Standard (Y/N) | No | | | | | | | | |
| Termination Type | TURNED DOWN | | | | | | | | |
| Drainage | | | 5 | 5 | SW approach drain cracked & chipped. Insufficient length.-25-AUG-2007 Snow covered. | | | | |
| Approach Road General Rating | | | 7 | 7 | | | | | |

| Superstructure | | | | | |
|---|-----------|-------------|-----------|--------------------------|---|
| Bridge Component | | Last | Now | Explanation of Condition | |
| (Primary Span : SMC, 15 Spans, Lengths(m): 10-12.6-12.6-12.6-12.6-12.6-12.6-12.6-12.6-12.6-12.6-10, A-Ident Number:) | | | | | |
| Special Features | | | | | |
| Special Feature | | | X | | |
| (Type :) | | | | | |
| Catwalk Access | | X | X | | |
| (Type : NONE) | | | | | |
| Wearing Surface/Deck Top Detail Ratings | | | | | |
| | N (%) | 1 (%) | 2 (%) | 3 (%) | Snow covered. |
| Last | 0 | 0 | 0 | 0 | |
| Now | 100.0 | 0.0 | 0.0 | 0.0 | |
| Wearing Surface | | | 5 | N | Random long & transverse cracks.-25-Aug-2007 |
| (Material Type : ACP) | | | | | |
| (Thickness(mm) : 50) | | | | | |
| Lateral Connection Problem (Y/N) | | No | | | |
| Deck Top | | | N | N | |
| Deck Rideability | | | 6 | 6 | |
| Deck Joints | | | 3 | N | S exp @ 12 deg.c 60mm armoured gland. N exp. @ 12 deg.C 43mm armoured gland - 1 broken bolt.-25-Aug-2007 |
| Bump (Y/N) | | No | | | |
| | | | | | Snow covered |
| Deck Drainage | | | 7 | 4 | Rust staining around all drain tubes.-photo |
| Drains Clogged (Y/N) | | No | | | |
| Curbs/Median | | | 3 | N | 1 hole (75 x 75) in W curb N end of bridge. Vertical cracks @ posts outside of curb typical throughout.-25-Aug-2007 Coating on curb facia peeling. |
| (Curb Type : Standard) | | | | | |
| Scaling (Percent Area) | | 5 | | | |
| | | | | | Snow covered. |
| Bridge Rail | | | 7 | 7 | |
| (Type : GALVANIZED STEEL BRIDGE TUBE) | | | | | |
| Bridge Rail Posts | | | 7 | N | |
| (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 | 117 | 0 | 0 | 0 | |
| Now | | | | | |
| Girders | | | 5 | 5 | Narrow cracking in poured joint at pier 3. Narrow vertical crack in S1G1 & S15G1, 300 from end.over bearing. Rust staining on approx. 50% of girders due to rebar ties. |
| Last Complete Inspection Date | | 30-Nov-2010 | | | |
| Cracking (Y/N) | | No | | | |
| Spalling (Percent Area) | | 0 | | | |
| Lift or Connector Pocket Grouted (Y/N) | | Yes | | | |
| (Number Of Girders : 135) | | | | | |
| Span Alignment Problems | | | | | |
| Vertical (Y/N) | | No | | | |
| Horizontal (Y/N) | | No | | | |

| Superstructure | | | | | | | |
|---|-----------|-----------|-----------|-----------|--|--------------------------|---|
| Bridge Component | | | | Last | Now | Explanation of Condition | |
| (Primary Span : SMC, 15 Spans, Lengths(m): 10-12.6-12.6-12.6-12.6-12.6-12.6-12.6-12.6-12.6-12.6-10, A-Ident Number:) | | | | | | | |
| Superstructure General Rating | | | | 5 | 5 | | |
| Substructure | | | | | | | |
| Bridge Component | | | | Last | Now | Explanation of Condition | |
| Abutments | | | | | | | |
| (Extended Backwall Piles (Y/N) : N) | | | | | | | |
| (Extended Backwall Piles Spacing(mm) :) | | | | | | | |
| (Total Number of Caps/Corbels : 1:1) | | | | | | | |
| Bearing Seats/Caps/Corbels Detail Ratings | | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | Lots of graffiti on N abutment. 700mm of settlement under cap about 2. Headslope settled 100mm @ NW. | | |
| Last | | | | | | | |
| Now | | | | | | | |
| Bearing Seats/Caps/Corbels | | | | 8 | | | 8 |
| (Type : CONCRETE) | | | | | | | |
| (Depth(mm) : 900) | | | | | | | |
| (Width(mm) : 880) | | | | | | | |
| Backwalls/Breastwalls | | | | X | X | | |
| Greatest Height (m) | | 1.50 | | | | | |
| Wingwalls | | | | 7 | 7 | | |
| (Total Number of Bearing Piles : 7:7) | | | | | | | |
| Piles Detail Ratings | | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | | |
| Last | | | | | | | |
| Now | 14 | 0 | 0 | 0 | | | |
| Piles | | | | N | | | N |
| Paint/Coating | | | | 7 | | | 7 |
| Abutment Stability | | | | 8 | 8 | | |
| Scour/Erosion | | | | 7 | 7 | | |
| Piers/Bents | | | | | | | |
| (Type : PIER-COLUMN) | | | | | | | |
| (Total Number of Caps/Corbels : 1:1:1:1:1:1: : 1:1:1:1:1:1) | | | | | | | |
| Bearing Seats/Caps/Corbels Detail Ratings | | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | | |
| Last | 0 | 0 | 0 | 0 | | | |
| Now | | | | | | | |
| Bearing Seats/Caps/Corbels | | | | 8 | | | 8 |
| (Type : CONCRETE) | | | | | | | |
| (Depth(mm) : 701) | | | | | | | |
| (Width(mm) : 750) | | | | | | | |
| (Total Number of Bearing Piles : 5:5:5:5:5:5:5:5:5:5:5) | | | | | | | |
| Piles Detail Ratings | | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | | |
| Last | 0 | 0 | 0 | 0 | | | |
| Now | | | | | | | |
| Pier Shaft/Piles | | | | 7 | | | 7 |
| Greatest Height (m) | | 5.50 | | | | | |
| Bracing/Struts/Sheathing | | | | X | X | | |

| Substructure | | | | |
|--|----|----------|----------|--------------------------|
| Bridge Component | | Last | Now | Explanation of Condition |
| Nose Plate | | X | X | |
| Paint/Coating | | 5 | 5 | |
| (Colour Description :) | | | | |
| (Colour Code :) | | | | |
| Pier Stability | | 8 | 8 | |
| Scour | | 8 | 8 | |
| Debris (Y/N) | No | | | |
| Substructure General Rating | | 7 | 7 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel | | | | |
| (U/S Direction : W) | | | | |
| (D/S Direction : E) | | | | |
| Alignment | | 8 | 8 | |
| Bank Stability | | 8 | 8 | |
| HWM (m below Top of Curb) | | | | HWM not visible. |
| Drift (Y/N) | No | | | |
| Slope Protection | | 8 | 8 | |
| (Type :) | | | | |
| Guidebank/Spurs | | X | X | |
| Adequacy of Opening | | 8 | 8 | |
| (Fish Compensation Measure 1 : NONE) | | | | |
| (Fish Compensation Measure 2 : NONE) | | | | |
| Channel General Rating | | 8 | 8 | |

| Maintenance Recommendations | | | | | | | |
|---|---------------------------------------|---|---------------------------|---------------|-----------|-------------------|-----|
| Inspector Recommendations | Year | Inspector Comments | Department Comments | Target Year | Est. Cost | Cat # | |
| REPAIR/REPLACE BRIDGE RAIL | | | | | | | |
| SEAL CURBS | 2011 | Patch curb.-25-Aug-2007 | | | | | |
| 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 | Repair deck joint.-carried over 25-Aug-2007 | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 66.7/66.7 | Sufficiency Rating (Last/Now) (%) | 64.9/65.0 | Est. Repl. Yr | 2059 | Maint. Req. (Y/N) | Yes |
| Special Comments for Next Inspection | Monitor staining by deck drain tubes. | | 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 | Eric Carcoux | | Previous Assistant's Name | | | | |
| Next Inspection Date | 28-Feb-2014 | | Previous Inspection Date | 25-Aug-2007 | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | |
| Comment | | | | | | | |