

| Bridge Inspection | | | | | | | |
|------------------------|---------------------------------|---------------|------|---------------------|---------------|---------------|---|
| Bridge File Number | 78249 -2 Bridge | | | Form Type | PCS | | |
| Year Built/Year Supstr | 2005/2005 | | | Lot No. | 2 | | |
| Bridge or Town Name | NORDEGG | | | Inspector Name | Owen Salava | | |
| Located Over | MOOSE CK, 6.159.15, WATERCRS-ST | | | Inspector Class | BR CLS A | | |
| Located On | 734:14 C1 13.798 | | | Assistant Name | | | |
| Water Body Cl./Year | | | | Assistant Class | | | |
| Navigabil. Cl./Year | | | | Inspection Date | 30-Nov-2010 | | |
| Legal Land Location | SW SEC 35 TWP 34 RGE 9 W5M | | | Data Entry By | Marcia Chavez | | |
| Longitude, Latitude | -115:10:54, 51:57:24 | | | Data Entry Date | 03-Jan-2011 | | |
| Road Authority | Alberta Transportation (AIT) | | | Reviewer Name | John O'Brien | | |
| Contract Main. Area | CMA18 | | | Review Date | 17-Dec-2010 | | |
| Clear Roadway/Skew | 7.2 / | | | Dept. Reviewer Name | Chris Black | | |
| AADT/Year | 90 / 2009 (A) | | | Dept. Review Date | 05-Jan-2011 | | |
| Road Classification | RCU-208G-90 | | | Follow-Up By | | | |
| Detour Length (km) | 80 | | | | | | |
| Allowable Load (t): | Single | CS1 28 GIRDER | Semi | CS2 49 GIRDER | Train | CS3 62 GIRDER | ----> On Critical Spans ---->Critical Member |
| Design Loading: | | | | | | | ----> Primary Span |

| Posting Information | | | | | | | | | |
|-------------------------------|---|----|-------------------|----|------------------|----|-----------------|----|--|
| Required Load Posting (t) | | | Single | | Semi | | Truck Train | | |
| Posted Loading (t) | | | Single | | Semi | | Truck Train | | |
| Posted: | Lane | WB | At Junction (Y/N) | No | In Advance (Y/N) | No | At Bridge (Y/N) | No | |
| Posted: | Lane | EB | At Junction (Y/N) | No | In Advance (Y/N) | No | At Bridge (Y/N) | No | |
| Remarks | Not required. | | | | | | | | |
| Hazard Marker At Bridge (Y/N) | Yes | | | | | | | | |
| Remarks | Hazard markers too high, bottom of board to top of curb 1.5m. | | | | | | | | |
| Other Sign Types | | | | | | | | | |

| 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 | Curve to the South. Hill to the North. |
| Vertical Alignment | | 4 | 4 | |
| Roadway Width (m) | 6.500 | | | |
| Approach Bump | | 5 | 5 | |
| Guardrail (Y/N) | No | | | |
| Guardrail | | X | X | |
| Length (m) | | | | |
| Current Standard (Y/N) | No | | | |
| Termination Type | None | | | |
| Drainage | | 5 | 5 | |
| Approach Road General Rating | | 5 | 4 | |

| 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 (%) | Snow covered. |
| Last | | | | | |
| Now | 100.0 | 0.0 | 0.0 | 0.0 | |
| Wearing Surface | | | X | X | |
| (Material Type :) | | | | | |
| (Thickness(mm) :) | | | | | |
| Lateral Connection Problem (Y/N) | | | | | |
| Deck Top | | | 5 | N | (Typical edge spalls - photo. 23Nov2005). |
| Deck Rideability | | | 7 | 7 | |
| Deck Joints | | | X | N | (Buffer angles. 23Nov2005). |
| Bump (Y/N) | | No | | | |
| Deck Drainage | | | 7 | 7 | |
| Drains Clogged (Y/N) | | No | | | |
| Curbs/Median | | | 6 | N | (Minor plow scrapes. Lift pockets not grouted. Salvage curbs. 23Nov2005). Snow covered. |
| (Curb Type : Standard) | | | | | |
| Scaling (Percent Area) | | 0 | | | |
| Bridge Rail | | | 7 | 7 | Single layer - mix salvage / new. |
| (Type : GALVANIZED STEEL FLEX BEAM) | | | | | |
| Bridge Rail Posts | | | 9 | 9 | |
| (Type : TREATED TIMBER;TREATED TIMBER) | | | | | |
| Bridge Rail/Posts Coating | | | 6 | 6 | |
| (Type : GALVANIZED) | | | | | |
| Sidewalk | | | X | X | |
| Girder Detail Ratings | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | |
| Last | | | | | |
| Now | 0 | 0 | 0 | 0 | |
| Girders | | | 4 | 4 | G3 minor spall in AZ of East leg near South abutment - photo. G4 small honeycomb in West leg near North abutment - photo. G7 short medium crack in AZ East leg - photo. Lift pockets not grouted. No girder connector. Girders not connected - no keeper on caps at the corners. |
| Last Complete Inspection Date | | 30-Nov-2010 | | | |
| Cracking (Y/N) | | Yes | | | |
| Spalling (Percent Area) | | 1 | | | |
| Lift or Connector Pocket Grouted (Y/N) | | No | | | |
| (Number Of Girders : 10) | | | | | |
| Span Alignment Problems | | | | | |
| Vertical (Y/N) | | No | | | |
| Horizontal (Y/N) | | No | | | |
| Superstructure General Rating | | | 4 | 4 | |

| Substructure | | | | | |
|---|-----------|-----------|-----------|--------------------------|--|
| Bridge Component | | Last | Now | Explanation of Condition | |
| Abutments | | | | | |
| (Extended Backwall Piles (Y/N) :) | | | | | |
| (Extended Backwall Piles Spacing(mm) :) | | | | | |
| (Total Number of Caps/Corbels : 2:2) | | | | | |
| Bearing Seats/Caps/Corbels Detail Ratings | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | |
| Last | | | | | |
| Now | 0 | 0 | 0 | 0 | |
| Bearing Seats/Caps/Corbels | | | | 9 | 9 |
| (Type : TREATED TIMBER) | | | | | |
| (Depth(mm) : 300) | | | | | |
| (Width(mm) : 500) | | | | | |
| Backwalls/Breastwalls | | | 9 | 9 | Concrete lock blocks stacked 2 row high / 2 rows wide. |
| Greatest Height (m) | | 2.00 | | | |
| Wingwalls | | | X | X | |
| (Total Number of Bearing Piles : 0:0) | | | | | |
| Piles Detail Ratings | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | |
| Last | | | | | |
| Now | | | | | |
| Piles | | | X | X | |
| Paint/Coating | | | X | X | |
| 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 :) | | | | | |
| Pier Stability | | | X | X | |

| Substructure | | | | |
|--|----|----------|----------|-------------------------------------|
| Bridge Component | | Last | Now | Explanation of Condition |
| Scour | | X | X | |
| Debris (Y/N) | No | | | |
| Substructure General Rating | | 8 | 7 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel | | | | |
| (U/S Direction : W) | | | | |
| (D/S Direction : E) | | | | |
| Alignment | | 6 | 6 | |
| Bank Stability | | 7 | 7 | |
| HWM (m below Top of Curb) | | | | Washed over top of previous bridge. |
| Drift (Y/N) | No | | | |
| Slope Protection | | 8 | 8 | |
| (Type : RIP RAP; RIP RAP) | | | | |
| Guidebank/Spurs | | 8 | 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 | 2011 | Upgrade to double layer & make continuous with guardrail when installed. | | | | | |
| SEAL CURBS | | | | | | | |
| PATCH DECK | 2011 | Grout lift pockets (girders & curbs). | | | | | |
| 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 approach rail. | | | | | |
| OTHER ACTION | 2011 | Lower hazard markers to meet standard. | | | | | |
| OTHER ACTION | 2011 | Install steel keepers at all 4 corners. | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 66.7/61.1 | Sufficiency Rating (Last/Now) (%) | 65.6/57.2 | Est. Repl. Yr | 2055 | Maint. Req. (Y/N) | Yes |
| Special Comments for Next Inspection | | | Department Comments | | | | |
| Maintenance Reviewed By | | | Date | | | Estimated Total | 0 |
| Proposed Long-Term Strategy | 2004.05.30 Monitor normal BIM. Should be ok until 2015. | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | |
| Proposed Action | | | | | | | |
| Previous Inspector's Name | Dave Lam | | Previous Assistant's Name | | | | |
| Next Inspection Date | 28-Feb-2014 | | Previous Inspection Date | 23-Nov-2005 | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | |
| Comment | | | | | | | |