

| Bridge Inspection | | | | | | | | | |
|------------------------|------------------------------|--------|------|--------|---------------------|---------------|---|--|--|
| Bridge File Number | 75812 N-1 Bridge | | | | Form Type | PCS | | | |
| Year Built/Year Supstr | 1963/2001 | | | | Lot No. | 1 | | | |
| Bridge or Town Name | PONOKA | | | | Inspector Name | Owen Salava | | | |
| Located Over | 25113:02 C1 0.153 | | | | Inspector Class | BR CLS A | | | |
| Located On | 2:26 R1 42.078 | | | | Assistant Name | | | | |
| Water Body Cl./Year | | | | | Assistant Class | | | | |
| Navigabil. Cl./Year | | | | | Inspection Date | 08-Mar-2013 | | | |
| Legal Land Location | NW SEC 27 TWP 42 RGE 26 W4M | | | | Data Entry By | Marcia Chavez | | | |
| Longitude, Latitude | -113:39:49, 52:38:57 | | | | Data Entry Date | 26-Mar-2013 | | | |
| Road Authority | Alberta Transportation (AIT) | | | | Reviewer Name | John O'Brien | | | |
| Contract Main. Area | CMA17 | | | | Review Date | 16-Mar-2013 | | | |
| Clear Roadway/Skew | 10 / | | | | Dept. Reviewer Name | Chris Black | | | |
| AADT/Year | 23,260 / 2011 (A) | | | | Dept. Review Date | 28-Mar-2013 | | | |
| Road Classification | RFD-412.4-130 | | | | Follow-Up By | | | | |
| Detour Length (km) | 1 | | | | | | | | |
| Allowable Load (t): | Single | CS1 28 | Semi | CS2 49 | Train | CS3 62 | ----> On Critical Spans ---->Critical Member | | |
| Design Loading: | CS750 | | | | | | ----> Primary Span | | |

| Posting Information | | | | | | | | | | | | |
|--------------------------------------|------|---|----------------------|------------------|------------------|------|-----------------|---------------|-----|------------------|-----|--|
| Required Vert. Clearance Posting (m) | | | UNDER: 25113 C1 3.9m | | | | | | | | | |
| Posted Vertical Clearance (Y/N) | | | Yes | | | | | | | | | |
| Posted: | Lane | EB | On Bridge (m) | In Advance (Y/N) | Yes | Lane | WB | On Bridge (m) | 4.0 | In Advance (Y/N) | Yes | |
| Remarks | | Measured 4.18m post at 4.0m. Posted on SB bridge. | | | | | | | | | | |
| 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) | | In Advance (Y/N) | | At Bridge (Y/N) | | | | | |
| Remarks | | Not required. | | | | | | | | | | |
| Hazard Marker At Bridge (Y/N) | | | No | | | | | | | | | |
| Remarks | | Not required. | | | | | | | | | | |
| Other Sign Types | | | | | | | | | | | | |

| Utilities (Located at) | | | | | | | | | |
|------------------------|------------------------|--|--|--|---------------|-----------|--|--|--|
| Utility Attachments | | | | | | | | | |
| Telephone | | | | | Gas | West r/w. | | | |
| Power | | | | | Municipal | | | | |
| Others | Fibre optics West r/w. | | | | Problem (Y/N) | No | | | |
| Remarks | | | | | | | | | |

| Approach Road | | | | |
|-------------------------------------|-----------|-------------|------------|---|
| | | Last | Now | Explanation of Condition |
| Horizontal Alignment | | 7 | 7 | Curve to the North. Crest to the South, limited sight distance. |
| Vertical Alignment | | 6 | 6 | |
| Roadway Width (m) | 12.500 | | | No guardrail at NE & NW corners, ok. |
| Approach Bump | | 6 | 6 | |
| Guardrail (Y/N) | Yes | | | |
| Guardrail | | 7 | 7 | |
| Length (m) | 72.000 | | | |
| Current Standard (Y/N) | Yes | | | |
| Termination Type | Turn Down | | | |
| Drainage | | 6 | 6 | Water at bridge corners drain onto backwall without controls, ok for now. |
| Approach Road General Rating | | 6 | 6 | |

| Superstructure | | | | | |
|--|-----------|-------------|-----------|--------------------------|---|
| Bridge Component | | Last | Now | Explanation of Condition | |
| (Primary Span : SC, 1 Spans, Lengths(m): 9.1, 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 | 5.0 | 0.0 | 0.0 | 0.0 | |
| Wearing Surface | | | 5 | 5 | Longitudinal cracks reflecting through the ACP. Leaking between G3/G4, staining between girders. |
| (Material Type : ACP) | | | | | |
| (Thickness(mm) : 125) | | | | | |
| Lateral Connection Problem (Y/N) | | Yes | | | |
| Deck Top | | | N | N | |
| Deck Rideability | | | 7 | 7 | |
| Deck Joints | | | N | N | Paved over. |
| Bump (Y/N) | | No | | | |
| Deck Drainage | | | 6 | 6 | No deck drains. Drains to the N end. |
| Drains Clogged (Y/N) | | | | | |
| Curbs/Median | | | 6 | 6 | |
| (Curb Type : Standard) | | | | | |
| Scaling (Percent Area) | | 0 | | | |
| Bridge Rail | | | 7 | 7 | Thrie beam. Dirty. |
| (Type : GALVANIZED STEEL THRIE BEAM) | | | | | |
| Bridge Rail Posts | | | 7 | 7 | |
| (Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL) | | | | | |
| Bridge Rail/Posts Coating | | | 8 | 8 | |
| (Type : GALVANIZED) | | | | | |
| Sidewalk | | | X | X | |
| Girder Detail Ratings | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | |
| Last | 0 | 0 | 0 | 0 | |
| Now | 0 | 0 | 0 | 1 | |
| Girders | | | 4 | 3 | 2 minor HLD chips on G1; 1 chip on G2. Fascia web has wide cracks & spalled G1 at A1. G2 at SW has spalled edge from being jammed inside backwalls. Staining between G3,4 due to leak above. |
| Last Complete Inspection Date | | 08-Mar-2013 | | | |
| Cracking (Y/N) | | Yes | | | |
| Spalling (Percent Area) | | 1 | | | |
| Lift or Connector Pocket Grouted (Y/N) | | Yes | | | |
| (Number Of Girders : 11) | | | | | |
| Span Alignment Problems | | | | | |
| Vertical (Y/N) | | No | | | |
| Horizontal (Y/N) | | No | | | |
| Superstructure General Rating | | | 4 | 3 | |

| 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) | | |
| Last | 0 | 0 | 0 | 0 | | |
| Now | 0 | 0 | 0 | 0 | | |
| Bearing Seats/Caps/Corbels | | | 5 | 5 | A2 has a 1.0m long delam crack at West end. | |
| (Type : CONCRETE) | | | | | | |
| (Depth(mm) : 1100) | | | | | | |
| (Width(mm) : 700) | | | | | | |
| | | | | | | |
| Backwalls/Breastwalls | | | 6 | 6 | | |
| Greatest Height (m) | | 4.30 | | | | |
| Wingwalls | | | 5 | 5 | A few of wire tiebacks broken and suspect others are broken inside fill. | |
| (Total Number of Bearing Piles : 8:8) | | | | | | |
| Piles Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | 0 | 0 | 0 | 0 | | |
| Now | 0 | 0 | 0 | 0 | | |
| Piles | | | 7 | 7 | 310 x 94 H-piles appears to be driven battered. | |
| Paint/Coating | | | X | X | | |
| Abutment Stability | | | 7 | 7 | | |
| Scour/Erosion | | | X | X | | |
| 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 | | 5 | 5 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Grade Separation | | | | |
| Road Alignment | | 5 | 5 | Horizontal curve at West end, limited sight distance, no passing both directions. Both East ends are not buried but left 300mm high. |
| Traffic Safety Features | | 6 | 6 | |
| Type | Guardrail | | | |
| Slope Protection | | X | X | |
| (Type :) | | | | |
| Bank Stability | | 6 | 6 | |
| Drainage | | 5 | 5 | (50mm deep pond at NE of Northbound structure. 05/03/25) |
| Grade Separation General Rating | | 5 | 5 | |

| 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 | 2013 | Patch high load damage G1,2 and patch spall G2. | | | | | |
| OTHER ACTION | 2013 | Assess G1 at A1 repair options. | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 50.0/44.4 | Sufficiency Rating (Last/Now) (%) | 38.5/35.7 | Est. Repl. Yr | 2028 | 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 | Owen Salava | Previous Assistant's Name | | | | | |
| Next Inspection Date | 08-Dec-2014 | Previous Inspection Date | 16-Sep-2011 | | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | |
| Comment | | | | | | | |