

| Bridge Inspection      |                                     |  |      |  |                     |                |   |  |  |
|------------------------|-------------------------------------|--|------|--|---------------------|----------------|---|--|--|
| Bridge File Number     | 78261 -1 Bridge                     |  |      |  | Form Type           | PSR            |   |  |  |
| Year Built/Year Supstr | 1968/1968                           |  |      |  | Lot No.             | 1              |   |  |  |
| Bridge or Town Name    | STRACHAN                            |  |      |  | Inspector Name      | Owen Salava    |   |  |  |
| Located Over           | PRAIRIE CREEK, 6.159.2, WATERCRS-ST |  |      |  | Inspector Class     | BR CLS A       |   |  |  |
| Located On             | 752:02 C1 25.841                    |  |      |  | Assistant Name      |                |   |  |  |
| Water Body Cl./Year    |                                     |  |      |  | Assistant Class     |                |   |  |  |
| Navigabil. Cl./Year    |                                     |  |      |  | Inspection Date     | 09-Feb-2012    |   |  |  |
| Legal Land Location    | SW SEC 12 TWP 38 RGE 10 W5M         |  |      |  | Data Entry By       | Marcia Chavez  |   |  |  |
| Longitude, Latitude    | -115:18:03, 52:14:53                |  |      |  | Data Entry Date     | 06-Mar-2012    |   |  |  |
| Road Authority         | Alberta Transportation (AIT)        |  |      |  | Reviewer Name       | John O'Brien   |   |  |  |
| Contract Main. Area    | CMA18                               |  |      |  | Review Date         | 23-Feb-2012    |   |  |  |
| Clear Roadway/Skew     | 10.1 / -30 deg. (LHF)               |  |      |  | Dept. Reviewer Name | Andrew Smikles |   |  |  |
| AADT/Year              | 150 / 2010 (A)                      |  |      |  | Dept. Review Date   | 15-Mar-2012    |   |  |  |
| Road Classification    | RCU-209-110                         |  |      |  | Follow-Up By        |                |   |  |  |
| Detour Length (km)     | 60                                  |  |      |  |                     |                |   |  |  |
| Allowable Load (t):    | Single                              |  | Semi |  | Train               |                | ----> On Critical Spans<br>---->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                         | 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                       |                              |    |                   |      |                  |    |                 |    |  |
| Hazard Marker At Bridge (Y/N) | Yes                          |    |                   |      |                  |    |                 |    |  |
| Remarks                       | Off-line at various heights. |    |                   |      |                  |    |                 |    |  |
| Other Sign Types              |                              |    |                   |      |                  |    |                 |    |  |

| Utilities (Located at) |                 |  |  |  |               |     |  |  |  |
|------------------------|-----------------|--|--|--|---------------|-----|--|--|--|
| Utility Attachments    |                 |  |  |  |               |     |  |  |  |
| Telephone              | In r/w to West. |  |  |  | Gas           |     |  |  |  |
| Power                  |                 |  |  |  | Municipal     |     |  |  |  |
| Others                 |                 |  |  |  | Problem (Y/N) | Yes |  |  |  |
| Remarks                |                 |  |  |  |               |     |  |  |  |

| Approach Road                       |                  |          |          |                          |  |  |  |  |  |
|-------------------------------------|------------------|----------|----------|--------------------------|--|--|--|--|--|
|                                     |                  | Last     | Now      | Explanation of Condition |  |  |  |  |  |
| Horizontal Alignment                |                  | 6        | 6        | Campground SW.           |  |  |  |  |  |
| Vertical Alignment                  |                  | 7        | 7        |                          |  |  |  |  |  |
| Roadway Width (m)                   | 9.000            |          |          |                          |  |  |  |  |  |
| Approach Bump                       |                  | 5        | 6        |                          |  |  |  |  |  |
| Guardrail (Y/N)                     | Yes              |          |          |                          |  |  |  |  |  |
| Guardrail                           |                  | 1        | 6        | Not thrie beam.          |  |  |  |  |  |
| Length (m)                          | 26.200           |          |          |                          |  |  |  |  |  |
| Current Standard (Y/N)              | No               |          |          |                          |  |  |  |  |  |
| Termination Type                    | TURNED DOWN ENDS |          |          |                          |  |  |  |  |  |
| Drainage                            |                  | 7        | 7        |                          |  |  |  |  |  |
| <b>Approach Road General Rating</b> |                  | <b>4</b> | <b>6</b> |                          |  |  |  |  |  |

| Superstructure   |           |              |  |                          |   |
|--|-----------|--------------|--|--------------------------|---|
| Bridge Component   |           | Last         | Now  | Explanation of Condition |   |
| (Primary Span : PM, 1 Spans, Lengths(m): 13.7, A-Ident Number: ) |           |              |  |                          |   |
| <b>Special Features</b>  |           |              |  |                          |   |
| Special Feature  |           |              | X  |                          |   |
| (Type : )  |           |              |  |                          |   |
| Special Feature  |           |              | X  |                          |   |
| (Type : )  |           |              |  |                          |   |
| Wearing Surface/Deck Top Detail Ratings                          |           |              |  |                          |   |
|  | N (%)     | 1 (%)        | 2 (%)  | 3 (%)                    |   |
| <b>Last</b>  | 0         | 0            | 0  | 0                        |   |
| <b>Now</b>   | 20.0      | 0.0          | 0.0  | 0.0                      |   |
| Wearing Surface  |           |              | X  | 6                        |   |
| (Material Type : <b>ACP</b> )                                    |           |              |  |                          |   |
| (Thickness(mm) : <b>50</b> )                                     |           |              |  |                          |   |
| Lateral Connection Problem (Y/N)                                 |           | No           |  |                          |   |
| Deck Top   |           |              | 4  | N                        |   |
| Deck Rideability   |           |              | 6  | 6                        |   |
| Deck Joints  |           |              | N  | N                        | Paved over.   |
| Temperature (deg. C)   |           |              |  |                          |   |
| (Expansion Type : )  |           |              |  |                          |   |
| (Fixed Type : )  |           |              |  |                          |   |
| Gap Size (mm)  |           | Gap Location |  |                          |   |
|  |           |              |  |                          |   |
|  |           |              |  |                          |   |
|  |           |              |  |                          |   |
|  |           |              |  |                          |   |
|  |           |              |  |                          |   |
| Deck Drainage  |           |              | 6  | 6                        | No deck drains.   |
| Drains Clogged (Y/N)   |           | No           |  |                          |   |
| Curbs/Median   |           |              | 4  | N                        | (Corrosion staining in East curb. Plow scrapes in West curb. 06Jul2005) - Snow covered. |
| (Curb Type : <b>Standard</b> )                                   |           |              |  |                          |   |
| Scaling (Percent Area)   |           | 20           |  |                          |   |
| Bridge Rail  |           |              | 4  | 7                        | Double layer, but not standard.   |
| (Type : <b>GALVANIZED STEEL FLEX BEAM</b> )                      |           |              |  |                          |   |
| Bridge Rail Posts  |           |              | 7  | 7                        |   |
| (Type : <b>POST STEEL;POST STEEL</b> )                           |           |              |  |                          |   |
| Bridge Rail/Posts Coating  |           |              | 4  | 6                        | Painted posts.<br>Primer only on posts.<br>Rail - galvanized, post - paint.             |
| (Type : <b>GALVANIZED</b> )                                      |           |              |  |                          |   |
| Sidewalk   |           |              | X  | X                        |   |
| <b>Girder Detail Ratings</b>                                     |           |              |  |                          |   |
|  | N (count) | 1 (count)    | 2 (count)  | 3 (count)                |   |
| <b>Last</b>  |           |              |  |                          |   |
| <b>Now</b>   | 0         | 0            | 0  | 1                        |   |
| Girders  |           |              | 3  | 3                        |   |
| Cracking (Y/N)   |           | Yes          |  |                          |   |
| Spalling (Percent Area)  |           | 0            |  |                          |   |
| (Number Of Girders : <b>12</b> )                                 |           |              | Short crack/honeycomb in bottom of G10 - photo.<br>7 small chips on bottom of E curb unit, appear some caused during erection & 2 on bottom of W curb.<br>Spot corrosion/crack in bottom of G10. |                          |   |

| Superstructure   |     |          |          |   |
|--|-----|----------|----------|---|
| Bridge Component   |     | Last     | Now      | Explanation of Condition                                      |
| (Primary Span : PM, 1 Spans, Lengths(m): 13.7, A-Ident Number: ) |     |          |          |   |
| Diaphragms/Cross Frame   |     | X        | X        |   |
| Bearings   |     | 8        | 8        | Neoprene strip on top of HP steel cap, both ends.             |
| Temperature (deg. C)   | -10 |          |          |   |
| (Expansion Type : <b>NEOPRENE STRIP BEARING</b> )                |     |          |          |   |
| (Fixed Type : )  |     |          |          |   |
| Coating Adequate (Y/N)   | Yes |          |          |   |
| Functioning (Y/N)  | Yes |          |          |   |
| Deck Underside   |     | X        | N        | Minor staining between girders.<br>Not visible on box girder. |
| Stains (Percent Area)  | 1   |          |          |   |
| <b>Span Alignment Problems</b>                                   |     |          |          |   |
| Vertical (Y/N)   | No  |          |          |   |
| Horizontal (Y/N)   | No  |          |          |   |
| <b>Superstructure General Rating</b>                             |     | <b>3</b> | <b>3</b> |   |
| Substructure   |     |          |          |   |
| Bridge Component   |     | Last     | Now      | Explanation of Condition                                      |
| <b>Abutments</b>   |     |          |          |   |
| Bearing Seats/Caps   |     | 6        | 6        |   |
| (Type : <b>STEEL</b> )   |     |          |          |   |
| Backwalls/Breastwalls  |     | 3        | 6        |   |
| Wingwalls  |     | N        | 6        |   |
| Piles  |     | 4        | 5        |   |
| Paint/Coating  |     | X        | 4        | No coating.   |
| Abutment Stability   |     | 4        | 6        |   |
| Scour/Erosion  |     | 5        | 6        |   |
| <b>Piers/Bents</b>   |     |          |          |   |
| (Type : )  |     |          |          |   |
| Bearing Seats/Caps   |     | X        | X        |   |
| (Type : )  |     |          |          |   |
| (Total Number of Bearing Piles : )                               |     |          |          |   |
| Pier Shaft/Piles   |     | X        | X        |   |
| Bracing/Struts/Sheathing   |     | X        | X        |   |
| Nose Plate   |     | X        | X        |   |
| Paint/Coating  |     | X        | X        |   |
| (Colour Description : )  |     |          |          |   |
| (Colour Code : )   |     |          |          |   |
| Pier Stability   |     | X        | X        |   |
| Scour  |     | X        | X        |   |
| Debris (Y/N)   | No  |          |          |   |
| <b>Substructure General Rating</b>                               |     | <b>4</b> | <b>5</b> |   |

| Structure Usage                              |    |          |          |                                       |
|--|----|----------|----------|---------------------------------------|
|  |    | Last     | Now      | Explanation of Condition              |
| <b>Channel</b>                               |    |          |          |                                       |
| (U/S Direction : <b>E</b> )                  |    |          |          |                                       |
| (D/S Direction : <b>W</b> )                  |    |          |          |                                       |
| Alignment                                    |    | 6        | 6        |                                       |
| Bank Stability                               |    | 7        | 7        |                                       |
| HWM (m below Top of Curb)                    |    |          |          | High water has come over top of road. |
| Drift (Y/N)                                  | No |          |          |                                       |
| Slope Protection                             |    | 4        | 6        | CL2                                   |
| (Type : <b>RIP RAP; RIP RAP</b> )            |    |          |          |                                       |
| Guidebank/Spurs                              |    | X        | 7        | Guidebanks both sides to E.           |
| Adequacy of Opening                          |    | 5        | 4        | Water has been over top of road.      |
| (Fish Compensation Measure 1 : <b>NONE</b> ) |    |          |          |                                       |
| (Fish Compensation Measure 2 : <b>NONE</b> ) |    |          |          |                                       |
| <b>Channel General Rating</b>                |    | <b>4</b> | <b>6</b> |                                       |

| Maintenance Recommendations                       |   |  |                           |               |                 |                   |     |
|---|---|--|---------------------------|---------------|-----------------|-------------------|-----|
| Inspector Recommendations                         | Year  | Inspector Comments                       | Department Comments       | Target Year   | Est. Cost       | Cat #             |     |
| REPAIR/REPLACE BRIDGE RAIL                        |   |  |                           |               |                 |                   |     |
| GALVANIZE/PAINT BRIDGE RAIL                       |   |  |                           |               |                 |                   |     |
| SEAL CURBS  |   |  |                           |               |                 |                   |     |
| PATCH DECK  |   |  |                           |               |                 |                   |     |
| SEAL DECK   |   |  |                           |               |                 |                   |     |
| OVERLAY DECK                                      |   |  |                           |               |                 |                   |     |
| REPAIR/REPLACE DECK JOINTS                        |   |  |                           |               |                 |                   |     |
| RESET/ PAINT BEARINGS                             |   |  |                           |               |                 |                   |     |
| WASHING   |   |  |                           |               |                 |                   |     |
| SHOTCRETE REPAIRS                                 |   |  |                           |               |                 |                   |     |
| REPAIR ABUTMENT SCOUR/EROSION                     |   |  |                           |               |                 |                   |     |
| PLACE ADDITIONAL RIP RAP                          |   |  |                           |               |                 |                   |     |
| REMOVE DRIFT ACCUMULATION                         |   |  |                           |               |                 |                   |     |
| OTHER ACTION                                      | 2012  | Install HM to std.                       |                           |               |                 |                   |     |
| OTHER ACTION                                      | 2012  | Lvl 2 inspect & assess girder crack.     |                           |               |                 |                   |     |
| OTHER ACTION                                      |   |  |                           |               |                 |                   |     |
| OTHER ACTION                                      |   |  |                           |               |                 |                   |     |
| OTHER ACTION                                      |   |  |                           |               |                 |                   |     |
| OTHER ACTION                                      |   |  |                           |               |                 |                   |     |
| OTHER ACTION                                      |   |  |                           |               |                 |                   |     |
| OTHER ACTION                                      |   |  |                           |               |                 |                   |     |
| OTHER ACTION                                      |   |  |                           |               |                 |                   |     |
| OTHER ACTION                                      |   |  |                           |               |                 |                   |     |
| OTHER ACTION                                      |   |  |                           |               |                 |                   |     |
| OTHER ACTION                                      |   |  |                           |               |                 |                   |     |
| OTHER ACTION                                      |   |  |                           |               |                 |                   |     |
| OTHER ACTION                                      |   |  |                           |               |                 |                   |     |
| OTHER ACTION                                      |   |  |                           |               |                 |                   |     |
| OTHER ACTION                                      |   |  |                           |               |                 |                   |     |
| OTHER ACTION                                      |   |  |                           |               |                 |                   |     |
| <b>Structural Condition Rating (Last/Now) (%)</b> | <b>38.9/44.4</b>  | <b>Sufficiency Rating (Last/Now) (%)</b> | <b>50.9/61.8</b>          | Est. Repl. Yr | 2030            | Maint. Req. (Y/N) | Yes |
| Special Comments for Next Inspection              | Measure crack in u/s of G10.  |  | Department Comments       |               |                 |                   |     |
| Maintenance Reviewed By                           |   |  | Date                      |               | Estimated Total | 0                 |     |
| Proposed Long-Term Strategy                       | 2008.01.29 Bridge should be good until 2040. Monitor corrosion of steel caps and piles. |  |                           |               |                 |                   |     |
| On 3-Year Program (Y/N)                           |   |  |                           |               |                 |                   |     |
| Proposed Action                                   |   |  |                           |               |                 |                   |     |
| Previous Inspector's Name                         | Dave Lam  |  | Previous Assistant's Name |               |                 |                   |     |

|                                     |             |                          |             |
|-------------------------------------|-------------|--------------------------|-------------|
| Next Inspection Date                | 09-May-2015 | Previous Inspection Date | 06-Jul-2005 |
| Inspection Cycle (Default) (months) | 39          |                          |             |
| Comment                             |             |                          |             |