

| Bridge Inspection      |                              |        |  |  |      |                     |                |       |        |   |
|------------------------|------------------------------|--------|--|--|------|---------------------|----------------|-------|--------|---|
| Bridge File Number     | 76849 S-2 Bridge             |        |  |  |      | Form Type           | PSR            |       |        |   |
| Year Built/Year Supstr | 2009/2009                    |        |  |  |      | Lot No.             | 2              |       |        |   |
| Bridge or Town Name    | AIRDRIE                      |        |  |  |      | Inspector Name      | Garry Roberts  |       |        |   |
| Located Over           | LOCAL ROAD                   |        |  |  |      | Inspector Class     | BR CLS A       |       |        |   |
| Located On             | 2:18 L1 6.460                |        |  |  |      | Assistant Name      |                |       |        |   |
| Water Body Cl./Year    |                              |        |  |  |      | Assistant Class     |                |       |        |   |
| Navigabil. Cl./Year    |                              |        |  |  |      | Inspection Date     | 12-Sep-2011    |       |        |   |
| Legal Land Location    | NW SEC 33 TWP 26 RGE 29 W4M  |        |  |  |      | Data Entry By       | Alyssa Boynton |       |        |   |
| Longitude, Latitude    | -114:00:06, 51:16:14         |        |  |  |      | Data Entry Date     | 20-Oct-2011    |       |        |   |
| Road Authority         | Alberta Transportation (AIT) |        |  |  |      | Reviewer Name       | Ash Morjaria   |       |        |   |
| Contract Main. Area    | CMA29                        |        |  |  |      | Review Date         | 08-Oct-2011    |       |        |   |
| Clear Roadway/Skew     | 30 /                         |        |  |  |      | Dept. Reviewer Name | Tim Davies     |       |        |   |
| AADT/Year              | 59,110 / 2010 (A)            |        |  |  |      | Dept. Review Date   | 28-Oct-2011    |       |        |   |
| Road Classification    |                              |        |  |  |      | Follow-Up By        |                |       |        |   |
| Detour Length (km)     |                              |        |  |  |      |                     |                |       |        |   |
| Allowable Load (t):    | Single                       | CS1 28 |  |  | Semi | CS2 49              |                | Train | CS3 62 | ----> On Critical Spans<br>---->Critical Member |
| Design Loading:        | CL800                        |        |  |  |      |                     |                |       |        | ----> Primary Span                              |

| Posting Information                  |                          |    |                   |     |                  |  |                 |    |               |                  |
|--------------------------------------|--------------------------|----|-------------------|-----|------------------|--|-----------------|----|---------------|------------------|
| Required Vert. Clearance Posting (m) |                          |    |                   |     |                  |  |                 |    |               |                  |
| Posted Vertical Clearance (Y/N)      |                          |    |                   |     | Yes              |  |                 |    |               |                  |
| Posted:                              | Lane                     | EB | On Bridge (m)     | 5.4 | In Advance (Y/N) |  | Lane            | WB | On Bridge (m) | In Advance (Y/N) |
| Remarks                              | W/B posting is on 76849N |    |                   |     |                  |  |                 |    |               |                  |
| Required Load Posting (t)            |                          |    | Single            |     | Semi             |  | Truck Train     |    |               |                  |
| Posted Loading (t)                   |                          |    | Single            |     | Semi             |  | Truck Train     |    |               |                  |
| Posted:                              | Lane                     | WB | At Junction (Y/N) |     | In Advance (Y/N) |  | At Bridge (Y/N) |    |               |                  |
| Posted:                              | Lane                     | EB | At Junction (Y/N) |     | In Advance (Y/N) |  | At Bridge (Y/N) |    |               |                  |
| Remarks                              | Not req.                 |    |                   |     |                  |  |                 |    |               |                  |

|                               |    |  |  |  |  |  |  |  |  |
|-------------------------------|----|--|--|--|--|--|--|--|--|
| Hazard Marker At Bridge (Y/N) | No |  |  |  |  |  |  |  |  |
| Remarks                       |    |  |  |  |  |  |  |  |  |
| Other Sign Types              |    |  |  |  |  |  |  |  |  |

| Utilities (Located at) |                                 |  |  |  |  |               |    |  |  |
|------------------------|---------------------------------|--|--|--|--|---------------|----|--|--|
| Utility Attachments    |                                 |  |  |  |  |               |    |  |  |
| Telephone              |                                 |  |  |  |  | Gas           |    |  |  |
| Power                  | Underdeck lighting and in area. |  |  |  |  | Municipal     |    |  |  |
| Others                 | Light standards.                |  |  |  |  | Problem (Y/N) | No |  |  |
| Remarks                |                                 |  |  |  |  |               |    |  |  |

| Approach Road                       |  |            |  |             |            |   |  |  |  |
|-------------------------------------|--|------------|--|-------------|------------|---|--|--|--|
|                                     |  |            |  | <b>Last</b> | <b>Now</b> | <b>Explanation of Condition</b>           |  |  |  |
| Horizontal Alignment                |  |            |  | 7           | 7          |   |  |  |  |
| Vertical Alignment                  |  |            |  | 8           | 8          |   |  |  |  |
| Roadway Width (m)                   |  | 35.000     |  |             |            | Estimate.                                 |  |  |  |
| Approach Bump                       |  |            |  | 9           | 8          | Minor damage at North East.               |  |  |  |
| Guardrail (Y/N)                     |  | Yes        |  |             |            |   |  |  |  |
| Guardrail                           |  |            |  | 9           | 6          |   |  |  |  |
| Length (m)                          |  | 90.000     |  |             |            |   |  |  |  |
| Current Standard (Y/N)              |  | Yes        |  |             |            |   |  |  |  |
| Termination Type                    |  | Attenuator |  |             |            |   |  |  |  |
| Drainage                            |  |            |  | 4           | 4          | SW drain trough curb cracked and spalling |  |  |  |
| <b>Approach Road General Rating</b> |  |            |  | <b>7</b>    | <b>7</b>   |   |  |  |  |

| Superstructure   |           |              |           |                          |   |
|--|-----------|--------------|-----------|--------------------------|---|
| Bridge Component   |           | Last         | Now       | Explanation of Condition |   |
| (Primary Span : <b>NU, 2 Spans, Lengths(m): 27-32, A-Ident Number: )</b> |           |              |           |                          |   |
| <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>   | 0.0       | 0.0          | 0.0       | 0.0                      |   |
| Wearing Surface  |           |              | 9         | 8                        |   |
| (Material Type : <b>MIX TYPE 1 ACP</b> )                                 |           |              |           |                          |   |
| (Thickness(mm) : <b>80</b> )   |           |              |           |                          |   |
| Lateral Connection Problem (Y/N)   |           | No           |           |                          |   |
| Deck Top   |           |              | N         | N                        |   |
| Deck Rideability   |           |              | 9         | 8                        |   |
| Deck Joints  |           |              | X         | X                        |   |
| Temperature (deg. C)   |           |              |           |                          |   |
| (Expansion Type : )  |           |              |           |                          |   |
| (Fixed Type : )  |           |              |           |                          |   |
| Gap Size (mm)  |           | Gap Location |           |                          |   |
|  |           |              |           |                          |   |
|  |           |              |           |                          |   |
|  |           |              |           |                          |   |
| Deck Drainage  |           |              | X         | 7                        |   |
| Drains Clogged (Y/N)   |           | No           |           |                          |   |
| Curbs/Median   |           |              | 7         | 7                        | Narrow vertical cracks throughout under bridge rail posts, i medium span 2 east rail. |
| (Curb Type : <b>Standard</b> )   |           |              |           |                          |   |
| Scaling (Percent Area)   |           | 0            |           |                          |   |
| Bridge Rail  |           |              | 9         | 8                        |   |
| (Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )                            |           |              |           |                          |   |
| Bridge Rail Posts  |           |              | 9         | 8                        |   |
| (Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )             |           |              |           |                          |   |
| Bridge Rail/Posts Coating  |           |              | 9         | 8                        |   |
| (Type : <b>GALVANIZED</b> )  |           |              |           |                          |   |
| Sidewalk   |           |              | X         | X                        |   |
| Girder Detail Ratings  |           |              |           |                          |   |
|  | N (count) | 1 (count)    | 2 (count) | 3 (count)                |   |
| <b>Last</b>  | 0         | 0            | 0         | 0                        |   |
| <b>Now</b>   | 0         | 0            | 0         | 0                        |   |
| Girders  |           |              | 9         | 8                        |   |
| Cracking (Y/N)   |           | No           |           |                          |   |
| Spalling (Percent Area)  |           | 0            |           |                          |   |
| (Number Of Girders : <b>10</b> )   |           |              |           |                          |   |

| Superstructure   |    |          |          |   |
|--|----|----------|----------|---|
| Bridge Component   |    | Last     | Now      | Explanation of Condition  |
| (Primary Span : <b>NU, 2 Spans, Lengths(m): 27-32, A-Ident Number: )</b> |    |          |          |   |
| Diaphragms/Cross Frame   |    | 8        | 8        | Vertical cracks between girders in abutment diaphragms  |
| Bearings   |    | N        | N        | Integral.   |
| Temperature (deg. C)   |    |          |          |   |
| (Expansion Type : )  |    |          |          |   |
| (Fixed Type : )  |    |          |          |   |
| Coating Adequate (Y/N)   |    |          |          |   |
| Functioning (Y/N)  |    |          |          |   |
| Deck Underside   |    | 7        | 7        | Narrow transverse cracks between 1-2,8-10 span 1, random transverse cracks with efflorescence |
| Stains (Percent Area)  | 1  |          |          |   |
| <b>Span Alignment Problems</b>   |    |          |          |   |
| Vertical (Y/N)   | No |          |          |   |
| Horizontal (Y/N)   | No |          |          |   |
| <b>Superstructure General Rating</b>                                     |    | <b>7</b> | <b>7</b> |   |
| Substructure   |    |          |          |   |
| Bridge Component   |    | Last     | Now      | Explanation of Condition  |
| <b>Abutments</b>   |    |          |          |   |
| Bearing Seats/Caps   |    | 9        | 8        |   |
| (Type : <b>CONCRETE</b> )  |    |          |          |   |
| Backwalls/Breastwalls  |    | 8        | 8        |   |
| Wingwalls  |    | 8        | 8        | Medium cracks.  |
| Piles  |    | N        | N        | Buried.   |
| Paint/Coating  |    | 9        | 8        |   |
| Abutment Stability   |    | 9        | 8        |   |
| Scour/Erosion  |    | X        | X        |   |
| <b>Piers/Bents</b>   |    |          |          |   |
| (Type : <b>PIER-COLUMN</b> )   |    |          |          | Bearing seat not visible.   |
| Bearing Seats/Caps   |    | X        | 8        |   |
| (Type : <b>CONCRETE</b> )  |    |          |          |   |
| (Total Number of Bearing Piles : <b>5</b> )                              |    |          |          |   |
| Pier Shaft/Piles   |    | 9        | 8        |   |
| Bracing/Struts/Sheathing   |    | 9        | 8        |   |
| Nose Plate   |    | X        | X        |   |
| Paint/Coating  |    | 9        | 8        | Pigmented sealer.   |
| (Colour Description : )  |    |          |          |   |
| (Colour Code : )   |    |          |          |   |
| Pier Stability   |    | 9        | 8        |   |
| Scour  |    | X        | X        |   |
| Debris (Y/N)   | No |          |          |   |
| <b>Substructure General Rating</b>                                       |    | <b>9</b> | <b>8</b> |   |

| Structure Usage                        |                  |          |          |  |
|--|------------------|----------|----------|--|
|  |                  | Last     | Now      | Explanation of Condition               |
| <b>Grade Separation</b>                |                  |          |          |  |
| Road Alignment                         |                  | 7        | 7        | Controlled intersections at both ends. |
| Traffic Safety Features                |                  | 9        | 8        | Bullnose at West end.                  |
| Type                                   | Concrete barrier |          |          |  |
| Slope Protection                       |                  | 9        | 8        |  |
| (Type : <b>CONCRETE; CONCRETE</b> )    |                  |          |          |  |
| Bank Stability                         |                  | 9        | 8        |  |
| Drainage                               |                  | 9        | 8        |  |
| <b>Grade Separation General Rating</b> |                  | <b>7</b> | <b>7</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  | 2011             | Epoxy vertical cracks in curb            |                           |               |           |                   |     |
| 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                                      | 2011             | Repair curb at SW corner                 |                           |               |           |                   |     |
| OTHER ACTION                                      |                  |  |                           |               |           |                   |     |
| OTHER ACTION                                      |                  |  |                           |               |           |                   |     |
| OTHER ACTION                                      |                  |  |                           |               |           |                   |     |
| <b>Structural Condition Rating (Last/Now) (%)</b> | <b>88.9/83.3</b> | <b>Sufficiency Rating (Last/Now) (%)</b> | <b>68.8/61.0</b>          | Est. Repl. Yr | 2082      | 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                         | Colin Roy        |  | Previous Assistant's Name |               |           |                   |     |
| Next Inspection Date                              | 12-Jun-2013      |  | Previous Inspection Date  | 18-Aug-2010   |           |                   |     |
| Inspection Cycle (Default) (months)               | 21               |  |                           |               |           |                   |     |
| Comment   |                  |  |                           |               |           |                   |     |