

| Bridge Inspection      |                               |        |      |        |                     |               |   |  |  |
|------------------------|-------------------------------|--------|------|--------|---------------------|---------------|---|--|--|
| Bridge File Number     | 79139 -1 Bridge               |        |      |        | Form Type           | PCS           |   |  |  |
| Year Built/Year Supstr | 1981/1981                     |        |      |        | Lot No.             | 2             |   |  |  |
| Bridge or Town Name    | LOMOND                        |        |      |        | Inspector Name      | Garry Roberts |   |  |  |
| Located Over           | BRP - MAIN CANAL, WATERCRS-IC |        |      |        | Inspector Class     | BR CLS A      |   |  |  |
| Located On             | 845:08 C1 7.446               |        |      |        | Assistant Name      |               |   |  |  |
| Water Body Cl./Year    |                               |        |      |        | Assistant Class     |               |   |  |  |
| Navigabil. Cl./Year    |                               |        |      |        | Inspection Date     | 21-Mar-2012   |   |  |  |
| Legal Land Location    | NW SEC 26 TWP 14 RGE 20 W4M   |        |      |        | Data Entry By       | Lauren Korte  |   |  |  |
| Longitude, Latitude    | -112:38:36, 50:12:08          |        |      |        | Data Entry Date     | 12-Apr-2012   |   |  |  |
| Road Authority         | Alberta Transportation (AIT)  |        |      |        | Reviewer Name       | Tom Carey     |   |  |  |
| Contract Main. Area    | CMA25                         |        |      |        | Review Date         | 23-Mar-2012   |   |  |  |
| Clear Roadway/Skew     | 8.8 / -15 deg. (LHF)          |        |      |        | Dept. Reviewer Name | Tim Davies    |   |  |  |
| AADT/Year              | 670 / 2011 (A)                |        |      |        | Dept. Review Date   | 17-Apr-2012   |   |  |  |
| Road Classification    | RCU-209-110                   |        |      |        | Follow-Up By        |               |   |  |  |
| Detour Length (km)     | 10                            |        |      |        |                     |               |   |  |  |
| Allowable Load (t):    | Single                        | CS1 28 | Semi | CS2 49 | Train               | CS3 62        | ----> On Critical Spans<br>---->Critical Member |  |  |
| Design Loading:        | MS23                          |        |      |        |                     |               | ----> 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) | Yes           |    |                   |    |                  |    |                 |    |  |
| Remarks                       |               |    |                   |    |                  |    |                 |    |  |
| 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                |        | 9           | 8        | Canal access all 4 corners.   |  |  |  |  |  |
| Vertical Alignment                  |        | 6           | 6        |   |  |  |  |  |  |
| Roadway Width (m)                   | 10.500 |             |          | Recently paved.   |  |  |  |  |  |
| Approach Bump                       |        | 3           | 7        |   |  |  |  |  |  |
| Guardrail (Y/N)                     |        | Yes         |          | Minor damage at all corners. Rails are short and not effective, not attached to T.D bracket at SE and not properly buried at North. |  |  |  |  |  |
| Guardrail                           |        | 3           | 4        |   |  |  |  |  |  |
| Length (m)                          |        | 5.200       |          | Not thriebeam.  |  |  |  |  |  |
| Current Standard (Y/N)              |        | No          |          |   |  |  |  |  |  |
| Termination Type                    |        | TURNED DOWN |          |   |  |  |  |  |  |
| Drainage                            |        | 5           | 6        | Erosion on South Headslope - Minor.   |  |  |  |  |  |
| <b>Approach Road General Rating</b> |        | <b>3</b>    | <b>6</b> |   |  |  |  |  |  |

| Superstructure   |           |             |           |                          |  |
|--|-----------|-------------|-----------|--------------------------|--|
| Bridge Component   |           | Last        | Now       | Explanation of Condition |  |
| (Primary Span : <b>SM, 4 Spans, Lengths(m): 11-11-11-11, 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>  |           |             |           |                          |  |
| <b>Now</b>   | 0.0       | 0.0         | 0.0       | 0.0                      |  |
| Wearing Surface  |           |             | 7         | 5                        | Concrete overlay.<br>Longitudinal cracks along girder lines at all spans.<br>Random transverse cracks.   |
| (Material Type : <b>CONCRETE</b> )   |           |             |           |                          |  |
| (Thickness(mm) : <b>50</b> )   |           |             |           |                          |  |
| Lateral Connection Problem (Y/N)   | Yes       |             |           |                          |  |
| Deck Top   |           |             | 6         | N                        |  |
| Deck Rideability   |           |             | 7         | 7                        |  |
| Deck Joints  |           |             | 4         | 4                        | Spall in the concrete over pier #3.  |
| Bump (Y/N)   |           | No          |           |                          |  |
| Deck Drainage  |           |             | 6         | 5                        |  |
| Drains Clogged (Y/N)   |           | No          |           |                          |  |
| Curbs/Median   |           |             | 6         | 6                        | Some shrinkage cracks, some map cracks, minor spall SE corner.   |
| (Curb Type : <b>Standard</b> )   |           |             |           |                          |  |
| Scaling (Percent Area)   |           | 3           |           |                          |  |
| Bridge Rail  |           |             | 7         | 7                        | 1 nut / washer missing at Sp.2 over P3 West side.  |
| (Type : <b>GALVANIZED STEEL FLEX BEAM</b> )                                    |           |             |           |                          |  |
| Bridge Rail Posts  |           |             | 4         | 3                        |  |
| (Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )                   |           |             |           |                          |  |
| Bridge Rail/Posts Coating  |           |             | 7         | 6                        |  |
| (Type : <b>GALVANIZED</b> )  |           |             |           |                          |  |
| Sidewalk   |           |             | X         | X                        |  |
| Girder Detail Ratings  |           |             |           |                          |  |
|  | N (count) | 1 (count)   | 2 (count) | 3 (count)                |  |
| <b>Last</b>  |           |             |           |                          |  |
| <b>Now</b>   | 0         | 0           | 0         | 0                        |  |
| Girders  |           |             | 4         | 4                        | Some hairline cracks longitudinal along bottom, some staining, longitudinal cracks on outsides of girders.<br>SW curb girder - spalling, rust staining and apparent cored hole to release water in void. |
| Last Complete Inspection Date  |           | 21-Mar-2012 |           |                          |  |
| Cracking (Y/N)   |           | Yes         |           |                          |  |
| Spalling (Percent Area)  |           | 2           |           |                          |  |
| Lift or Connector Pocket Grouted (Y/N)   |           | Yes         |           |                          |  |
| (Number Of Girders : <b>32</b> )   |           |             |           |                          |  |
| <b>Span Alignment Problems</b>   |           |             |           |                          |  |
| Vertical (Y/N)   |           | No          |           |                          |  |
| Horizontal (Y/N)   |           | No          |           |                          |  |
| <b>Superstructure General Rating</b>   |           |             | <b>4</b>  | <b>4</b>                 |  |

| Substructure                                    |           |           |           |                                    |   |  |
|---|-----------|-----------|-----------|------------------------------------|---|--|
| Bridge Component                                |           | Last      | Now       | Explanation of Condition           |   |  |
| <b>Abutments</b>                                |           |           |           |                                    |   |  |
| (Extended Backwall Piles (Y/N) : <b>N</b> )     |           |           |           |                                    |   |  |
| (Extended Backwall Piles Spacing(mm) : )        |           |           |           |                                    |   |  |
| (Total Number of Caps/Corbels : <b>1:1</b> )    |           |           |           |                                    |   |  |
| Bearing Seats/Caps/Corbels Detail Ratings       |           |           |           |                                    |   |  |
|   | N (count) | 1 (count) | 2 (count) | 3 (count)                          |   |  |
| <b>Last</b>                                     | 1         |           |           |                                    |   |  |
| <b>Now</b>                                      | 0         | 0         | 0         | 0                                  |   |  |
| Bearing Seats/Caps/Corbels                      |           |           |           | 7                                  | 7 |  |
| (Type : <b>CONCRETE</b> )                       |           |           |           |                                    |   |  |
| (Depth(mm) : <b>800</b> )                       |           |           |           |                                    |   |  |
| (Width(mm) : <b>600</b> )                       |           |           |           |                                    |   |  |
| Backwalls/Breastwalls                           |           |           |           | 7                                  | 7 |  |
| Greatest Height (m)                             |           | 1.10      |           |                                    |   |  |
| Wingwalls                                       |           |           |           | 8                                  | 7 |  |
| (Total Number of Bearing Piles : <b>8:8</b> )   |           |           |           |                                    |   |  |
| Piles Detail Ratings                            |           |           |           |                                    |   |  |
|   | N (count) | 1 (count) | 2 (count) | 3 (count)                          |   |  |
| <b>Last</b>                                     | 1         |           |           | Buried.                            |   |  |
| <b>Now</b>                                      | 1         | 0         | 0         | 0                                  |   |  |
| Piles   |           |           |           | N                                  | N |  |
| Paint/Coating                                   |           |           |           | X                                  | X |  |
| Abutment Stability                              |           |           |           | 8                                  | 8 |  |
| Scour/Erosion                                   |           |           |           | 7                                  | 7 |  |
| <b>Piers/Bents</b>                              |           |           |           |                                    |   |  |
| (Type : <b>PIER-COLUMN</b> )                    |           |           |           |                                    |   |  |
| (Total Number of Caps/Corbels : <b>1:1:1</b> )  |           |           |           |                                    |   |  |
| Bearing Seats/Caps/Corbels Detail Ratings       |           |           |           |                                    |   |  |
|   | N (count) | 1 (count) | 2 (count) | 3 (count)                          |   |  |
| <b>Last</b>                                     |           |           |           | Minor spall at P2 under West curb. |   |  |
| <b>Now</b>                                      | 0         | 0         | 0         | 0                                  |   |  |
| Bearing Seats/Caps/Corbels                      |           |           |           | 5                                  | 5 |  |
| (Type : <b>CONCRETE</b> )                       |           |           |           |                                    |   |  |
| (Depth(mm) : <b>800</b> )                       |           |           |           |                                    |   |  |
| (Width(mm) : <b>600</b> )                       |           |           |           |                                    |   |  |
| (Total Number of Bearing Piles : <b>6:6:6</b> ) |           |           |           |                                    |   |  |
| Piles Detail Ratings                            |           |           |           |                                    |   |  |
|   | N (count) | 1 (count) | 2 (count) | 3 (count)                          |   |  |
| <b>Last</b>                                     |           |           |           | Some driven crooked.               |   |  |
| <b>Now</b>                                      | 0         | 0         | 0         | 0                                  |   |  |
| Pier Shaft/Piles                                |           |           |           | 7                                  | 7 |  |
| Greatest Height (m)                             |           | 4.00      |           |                                    |   |  |
| Bracing/Struts/Sheathing                        |           |           |           | X                                  | X |  |
| Nose Plate                                      |           |           |           | X                                  | X |  |
| Paint/Coating                                   |           |           |           | 4                                  | 3 |  |
| (Colour Description : <b>BLUE</b> )             |           |           |           |                                    |   |  |
| (Colour Code : <b>15182</b> )                   |           |           |           |                                    |   |  |
|   |           |           |           | 70% Pitted rust.                   |   |  |

| Substructure                                 |     |          |          |                          |
|--|-----|----------|----------|--------------------------|
| Bridge Component                             |     | Last     | Now      | Explanation of Condition |
| Pier Stability                               |     | 7        | 7        |                          |
| Scour  |     | 5        | 6        |                          |
| Debris (Y/N)                                 | No  |          |          |                          |
| <b>Substructure General Rating</b>           |     | <b>5</b> | <b>5</b> |                          |
| Structure Usage                              |     |          |          |                          |
|  |     | Last     | Now      | Explanation of Condition |
| <b>Channel</b>                               |     |          |          |                          |
| (U/S Direction : <b>W</b> )                  |     |          |          |                          |
| (D/S Direction : <b>E</b> )                  |     |          |          |                          |
| Alignment                                    |     | 8        | 7        |                          |
| Bank Stability                               |     | 8        | 7        |                          |
| HWM (m below Top of Curb)                    | 2.0 |          |          | Water line on banks.     |
| Drift (Y/N)                                  | No  |          |          |                          |
| Slope Protection                             |     | 8        | 7        |                          |
| (Type : <b>RIP RAP; RIP RAP</b> )            |     |          |          |                          |
| Guidebank/Spurs                              |     | X        | X        |                          |
| Adequacy of Opening                          |     | 8        | 5        |                          |
| (Fish Compensation Measure 1 : <b>NONE</b> ) |     |          |          |                          |
| (Fish Compensation Measure 2 : <b>NONE</b> ) |     |          |          |                          |
| <b>Channel General Rating</b>                |     | <b>8</b> | <b>5</b> |                          |



|                                     |             |                           |               |
|-------------------------------------|-------------|---------------------------|---------------|
| Previous Inspector's Name           | Glen Mikesh | Previous Assistant's Name | Bernie Roseke |
| Next Inspection Date                | 21-Jun-2015 | Previous Inspection Date  | 22-Apr-2009   |
| Inspection Cycle (Default) (months) | 39          |                           |               |
| Comment                             |             |                           |               |