

| Bridge Inspection      |                              |  |      |  |                     |                 |   |                    |  |  |
|------------------------|------------------------------|--|------|--|---------------------|-----------------|---|--------------------|--|--|
| Bridge File Number     | 81232 -1 Bridge              |  |      |  | Form Type           | PSR             |   |                    |  |  |
| Year Built/Year Supstr | 1993/1993                    |  |      |  | Lot No.             | 4               |   |                    |  |  |
| Bridge or Town Name    | FT MCMURRAY                  |  |      |  | Inspector Name      | Wade Nanninga   |   |                    |  |  |
| Located Over           | MUNICIPAL                    |  |      |  | Inspector Class     | BR CLS A        |   |                    |  |  |
| Located On             | 63:12 L1 32.556              |  |      |  | Assistant Name      |                 |   |                    |  |  |
| Water Body Cl./Year    |                              |  |      |  | Assistant Class     |                 |   |                    |  |  |
| Navigabil. Cl./Year    |                              |  |      |  | Inspection Date     | 15-Nov-2011     |   |                    |  |  |
| Legal Land Location    | SW SEC 6 TWP 93 RGE 10 W4M   |  |      |  | Data Entry By       | Theresa Lacusta |   |                    |  |  |
| Longitude, Latitude    | -111:36:31, 57:02:15         |  |      |  | Data Entry Date     | 23-Nov-2011     |   |                    |  |  |
| Road Authority         | Alberta Transportation (AIT) |  |      |  | Reviewer Name       | Eric Carcoux    |   |                    |  |  |
| Contract Main. Area    | CMA07                        |  |      |  | Review Date         | 23-Nov-2011     |   |                    |  |  |
| Clear Roadway/Skew     | 13.6 /                       |  |      |  | Dept. Reviewer Name | Brent Herrick   |   |                    |  |  |
| AADT/Year              | 13,760 / 2010 (A)            |  |      |  | Dept. Review Date   | 15-Dec-2011     |   |                    |  |  |
| Road Classification    | RAU-213.4-120                |  |      |  | Follow-Up By        |                 |   |                    |  |  |
| Detour Length (km)     | 5                            |  |      |  |                     |                 |   |                    |  |  |
| Allowable Load (t):    | Single                       |  | Semi |  | Train               |                 | ----> On Critical Spans<br>---->Critical Member |                    |  |  |
| Design Loading:        |                              |  |      |  |                     |                 |   | ----> Primary Span |  |  |

| Posting Information                  |                                     |    |                   |    |                  |    |                 |    |               |  |                  |    |
|--------------------------------------|-------------------------------------|----|-------------------|----|------------------|----|-----------------|----|---------------|--|------------------|----|
| Required Vert. Clearance Posting (m) | UNDER: MUNICIPAL 9.7m               |    |                   |    |                  |    |                 |    |               |  |                  |    |
| Posted Vertical Clearance (Y/N)      | No                                  |    |                   |    |                  |    |                 |    |               |  |                  |    |
| Posted:                              | Lane                                | EB | On Bridge (m)     |    | In Advance (Y/N) | No | Lane            | WB | On Bridge (m) |  | In Advance (Y/N) | No |
| Remarks                              | Posting not required, private road. |    |                   |    |                  |    |                 |    |               |  |                  |    |
| 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)        | No                                  |    |                   |    |                  |    |                 |    |               |  |                  |    |
| Remarks                              | Not required.                       |    |                   |    |                  |    |                 |    |               |  |                  |    |
| Other Sign Types                     | Curve.                              |    |                   |    |                  |    |                 |    |               |  |                  |    |

| Utilities (Located at) |                   |  |  |  |               |    |  |  |  |  |
|------------------------|-------------------|--|--|--|---------------|----|--|--|--|--|
| Utility Attachments    |                   |  |  |  |               |    |  |  |  |  |
| Telephone              |                   |  |  |  | Gas           |    |  |  |  |  |
| Power                  | 4 lines west r/w. |  |  |  | Municipal     |    |  |  |  |  |
| Others                 |                   |  |  |  | Problem (Y/N) | No |  |  |  |  |
| Remarks                |                   |  |  |  |               |    |  |  |  |  |

| Approach Road                       |             |             |            |  |
|-------------------------------------|-------------|-------------|------------|--|
|                                     |             | <b>Last</b> | <b>Now</b> | <b>Explanation of Condition</b>                              |
| Horizontal Alignment                |             | 7           | 7          | Gradual curve across bridge.                                 |
| Vertical Alignment                  |             | 9           | 9          |  |
| Roadway Width (m)                   | 13.600      |             |            | No thrie beam  |
| Approach Bump                       |             | 7           | 6          |  |
| Guardrail (Y/N)                     | Yes         |             |            |  |
| Guardrail                           |             | 3           | 6          |  |
| Length (m)                          | 99.000      |             |            |  |
| Current Standard (Y/N)              | No          |             |            |  |
| Termination Type                    | Turned Down |             |            |  |
| Drainage                            |             | 4           | 4          | Erosion gully next to drain trough at NE, trough is scaling. |
| <b>Approach Road General Rating</b> |             | <b>7</b>    | <b>7</b>   |  |

| Superstructure   |                |              |           |                          |   |
|--|----------------|--------------|-----------|--------------------------|---|
| Bridge Component   |                | Last         | Now       | Explanation of Condition |   |
| (Primary Span : <b>PB, 1 Spans, Lengths(m): 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>  |                |              |           |                          |   |
| <b>Now</b>   | 20.0           | 0.0          | 0.0       | 0.0                      |   |
| Wearing Surface  |                |              | 6         | 6                        | Random cracking in E. lane.   |
| (Material Type : <b>ACP</b> )  |                |              |           |                          |   |
| (Thickness(mm) : <b>50</b> )   |                |              |           |                          |   |
| Lateral Connection Problem (Y/N)                                       |                | No           |           |                          |   |
| Deck Top   |                |              | N         | N                        |   |
| Deck Rideability   |                |              | 7         | 6                        |   |
| Deck Joints  |                |              | 6         | 6                        | Minor deterioration along South abutment joint anchorage.   |
| Temperature (deg. C)   |                | -10          |           |                          |   |
| (Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )          |                |              |           |                          |   |
| (Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )              |                |              |           |                          |   |
| Gap Size (mm)  |                | Gap Location |           |                          |   |
| 75   | North abutment |              |           |                          |   |
| 110  | South abutment |              |           |                          |   |
|  |                |              |           |                          |   |
| Deck Drainage  |                |              | 7         | 7                        | Superelevated.<br>No deck drains.   |
| Drains Clogged (Y/N)   |                |              |           |                          |   |
| Curbs/Median   |                |              | 6         | N                        | (Light scaling along curb tops.<br>Narrow to medium vertical and transverse cracks @ 0.9m spacing<br>both curbs.-08-Mar-2010) |
| (Curb Type : <b>Standard</b> )   |                |              |           |                          |   |
| Scaling (Percent Area)   |                | 40           |           |                          |   |
| Bridge Rail  |                |              | 6         | 6                        | 1 damaged post at SE corner. Missing top cover.   |
| (Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )                          |                |              |           |                          |   |
| Bridge Rail Posts  |                |              | 4         | 4                        |   |
| (Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )           |                |              |           |                          |   |
| Bridge Rail/Posts Coating  |                |              | 7         | 7                        |   |
| (Type : <b>GALVANIZED</b> )  |                |              |           |                          |   |
| Sidewalk   |                |              | X         | X                        |   |
| Girder Detail Ratings  |                |              |           |                          |   |
|  | N (count)      | 1 (count)    | 2 (count) | 3 (count)                |   |
| <b>Last</b>  | 12             | 0            | 0         | 0                        |   |
| <b>Now</b>   | 12             | 0            | 0         | 0                        |   |
| Girders  |                |              | N         | N                        | Girders are completely sheeted in with tin.   |
| Cracking (Y/N)   |                |              |           |                          |   |
| Spalling (Percent Area)  |                |              |           |                          |   |
| (Number Of Girders : <b>12</b> )                                       |                |              |           |                          |   |

| Superstructure  |     |          |          |  |
|---|-----|----------|----------|--|
| Bridge Component  |     | Last     | Now      | Explanation of Condition   |
| (Primary Span : <b>PB, 1 Spans, Lengths(m): 32, A-Ident Number: )</b> |     |          |          |  |
| Diaphragms/Cross Frame  |     | N        | N        |  |
| Bearings  |     | N        | N        | Too high, not accessible. Rust staining @ SE corner.<br><br>(99/10/05)<br>(99/10/05) |
| Temperature (deg. C)  | 0   |          |          |  |
| (Expansion Type : )   |     |          |          |  |
| (Fixed Type : )   |     |          |          |  |
| Coating Adequate (Y/N)  | Yes |          |          |  |
| Functioning (Y/N)   | Yes |          |          |  |
| Deck Underside  |     | N        | N        |  |
| Stains (Percent Area)   | 0   |          |          |  |
| <b>Span Alignment Problems</b>  |     |          |          |  |
| Vertical (Y/N)  | No  |          |          |  |
| Horizontal (Y/N)  | No  |          |          |  |
| <b>Superstructure General Rating</b>                                  |     | <b>7</b> | <b>7</b> | G.R. carried forward but items that govern can not be visually inspected.            |
| Substructure  |     |          |          |  |
| Bridge Component  |     | Last     | Now      | Explanation of Condition   |
| <b>Abutments</b>  |     |          |          |  |
| Bearing Seats/Caps  |     | 7        | 7        |  |
| (Type : <b>CONCRETE</b> )   |     |          |          |  |
| Backwalls/Breastwalls   |     | 6        | 6        |  |
| Wingwalls   |     | 6        | 6        |  |
| Piles   |     | N        | N        |  |
| Paint/Coating   |     | X        | X        |  |
| Abutment Stability  |     | 6        | 6        |  |
| Scour/Erosion   |     | X        | X        |  |
| <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>6</b> | <b>6</b> |  |

| Structure Usage                        |          |          |          |                            |
|--|----------|----------|----------|----------------------------|
|  |          | Last     | Now      | Explanation of Condition   |
| <b>Grade Separation</b>                |          |          |          |                            |
| Road Alignment                         |          | 6        | 6        | Curves in both directions. |
| Traffic Safety Features                |          | 6        | 6        |                            |
| Type                                   | Lighting |          |          |                            |
| Slope Protection                       |          | 7        | 7        | MSE wall.                  |
| (Type : <b>CONCRETE; CONCRETE</b> )    |          |          |          |                            |
| Bank Stability                         |          | 8        | 8        |                            |
| Drainage                               |          | 4        | 7        |                            |
| <b>Grade Separation 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                                      |   |  |                           |               |           |                   |    |
| OTHER ACTION                                      |   |  |                           |               |           |                   |    |
| OTHER ACTION                                      |   |  |                           |               |           |                   |    |
| OTHER ACTION                                      |   |  |                           |               |           |                   |    |
| <b>Structural Condition Rating (Last/Now) (%)</b> | <b>72.2/72.2</b>  | <b>Sufficiency Rating (Last/Now) (%)</b> | <b>58.6/55.1</b>          | Est. Repl. Yr | 2050      | Maint. Req. (Y/N) | No |
| Special Comments for Next Inspection              | Bridge to be removed in 2012 when new hwy is completed. New structure will be 500m North. |  | 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                         | Arnold Assenheimer  |  | Previous Assistant's Name | Wade Nanninga |           |                   |    |
| Next Inspection Date                              | 15-Aug-2013   |  | Previous Inspection Date  | 08-Mar-2010   |           |                   |    |
| Inspection Cycle (Default) (months)               | 21  |  |                           |               |           |                   |    |
| Comment   |   |  |                           |               |           |                   |    |