

| Bridge Inspection | | | | | | | | | | |
|------------------------|----------------------------------|--------|------|--------|---------------------|----------------|---|--|--|--|
| Bridge File Number | 01642 -1 Bridge | | | | Form Type | PCS | | | | |
| Year Built/Year Supstr | 1977/1977 | | | | Lot No. | 1 | | | | |
| Bridge or Town Name | DONALDA | | | | Inspector Name | Owen Salava | | | | |
| Located Over | MEETING CREEK, 5.31, WATERCRS-ST | | | | Inspector Class | BR CLS A | | | | |
| Located On | 53:10 C1 30.498 | | | | Assistant Name | | | | | |
| Water Body Cl./Year | | | | | Assistant Class | | | | | |
| Navigabil. Cl./Year | | | | | Inspection Date | 29-Nov-2012 | | | | |
| Legal Land Location | SE SEC 4 TWP 42 RGE 18 W4M | | | | Data Entry By | Marcia Chavez | | | | |
| Longitude, Latitude | -112:32:03, 52:34:47 | | | | Data Entry Date | 06-Dec-2012 | | | | |
| Road Authority | Alberta Transportation (AIT) | | | | Reviewer Name | John O'Brien | | | | |
| Contract Main. Area | CMA20 | | | | Review Date | 03-Dec-2012 | | | | |
| Clear Roadway/Skew | 10.1 / 15 deg. (RHF) | | | | Dept. Reviewer Name | Andrew Smikles | | | | |
| AADT/Year | 880 / 2011 (A) | | | | Dept. Review Date | 10-Dec-2012 | | | | |
| Road Classification | RAU-210-110 | | | | Follow-Up By | | | | | |
| Detour Length (km) | 6 | | | | | | | | | |
| Allowable Load (t): | Single | CS1 28 | Semi | CS2 49 | Train | CS3 62 | ---> On Critical Spans --->Critical Member | | | |
| Design Loading: | HS25 | | | | | | ---> Primary Span | | | |

| Posting Information | | | | | | | | | |
|-------------------------------|-----------------------------------|----|-------------------|----|------------------|----|-----------------|----|--|
| Required Load Posting (t) | Single | | Semi | | Truck Train | | | | |
| Posted Loading (t) | Single | | Semi | | Truck Train | | | | |
| Posted: | Lane | EB | At Junction (Y/N) | No | In Advance (Y/N) | No | At Bridge (Y/N) | No | |
| Posted: | Lane | WB | 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 | Not at correct height & location. | | | | | | | | |
| Other Sign Types | | | | | | | | | |

| Utilities (Located at) | | | | | | | | | | |
|------------------------|--------------------|--|--|--|---------------|----|--|--|--|--|
| Utility Attachments | | | | | | | | | | |
| Telephone | South r/w. | | | | Gas | | | | | |
| Power | 2 lines North r/w. | | | | Municipal | | | | | |
| Others | | | | | Problem (Y/N) | No | | | | |
| Remarks | | | | | | | | | | |

| Approach Road | | | | | | | | | | |
|-------------------------------------|--------|-----------|----------|---|---|-----------------|--|--|--|--|
| | | Last | Now | Explanation of Condition | | | | | | |
| Horizontal Alignment | | 6 | 6 | Curve to the distant West, farm approaches to West. | | | | | | |
| Vertical Alignment | | 7 | 7 | | | | | | | |
| Roadway Width (m) | 10.000 | | | | Spalled concrete at abuts patched but still cracking. | | | | | |
| Approach Bump | | 6 | 4 | ACP cracking. Potholes, both abuts. | | | | | | |
| Guardrail (Y/N) | | Yes | | Guardrail too low, 350 road top to rail c/l, typical - photo. | | | | | | |
| Guardrail | | 7 | 7 | Only one strong post/corner. | | | | | | |
| Length (m) | | 40.000 | | | | Not thrie beam. | | | | |
| Current Standard (Y/N) | | No | | | | | | | | |
| Termination Type | | Turn Down | | | | | | | | |
| Drainage | | 4 | 4 | Erosion gully @ SW ditch, 1.2 x 3.1 x 25m - photo. | | | | | | |
| Approach Road General Rating | | 6 | 6 | | | | | | | |

| Superstructure | | | | | | |
|--|-------------|-----------|-----------|---|--|--|
| Bridge Component | | Last | Now | Explanation of Condition | | |
| (Primary Span : VS, 3 Spans, Lengths(m): 9.1-10.7-9.1, A-Ident Number:) | | | | | | |
| Special Features | | | | | | |
| Special Feature | | 7 | 7 | 3 per span. FRSFC. Girders chipped at diaphragm locations. | | |
| (Type : UNDERSLUNG DIAPHR) | | | | | | |
| Special Feature | | | X | | | |
| (Type :) | | | | | | |
| Wearing Surface/Deck Top Detail Ratings | | | | | | |
| | N (%) | 1 (%) | 2 (%) | 3 (%) | | |
| Last | 0 | 0 | 0 | 0 | | |
| Now | 10.0 | 0.0 | 0.0 | 0.0 | | |
| Wearing Surface | | 4 | 4 | Long. cracking visible - photo. Diagonal cracking, also visible @ c/l of both piers. Delaminated areas at c/l both piers - photos. 1 crack per span, reflected above edge of girders. | | |
| (Material Type : CONCRETE) | | | | | | |
| (Thickness(mm) : 50) | | | | | | |
| Lateral Connection Problem (Y/N) | Yes | | | | | |
| Deck Top | | N | N | | | |
| Deck Rideability | | 6 | 6 | | | |
| Deck Joints | | N | N | Active leaking onto abutment/pier caps - photo. (Saw cut leaks profusely @ NW pier gutter. 96/02/12) Could not confirm. | | |
| Bump (Y/N) | No | | | | | |
| Deck Drainage | | 4 | 4 | Headslope gully at abutment, girder spall at piers and stained pier caps from leaks at joints. | | |
| Drains Clogged (Y/N) | No | | | | | |
| Curbs/Median | | 5 | 5 | Chip at SW girder end, NE end. | | |
| (Curb Type : Standard) | | | | | | |
| Scaling (Percent Area) | 0 | | | | | |
| Bridge Rail | | 7 | 7 | Nut on 2 A/B have insufficient thread. Some bolts in rail not galvanized. | | |
| (Type : GALVANIZED STEEL BRIDGE TUBE) | | | | | | |
| Bridge Rail Posts | | 5 | 5 | | | |
| (Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL) | | | | | | |
| Bridge Rail/Posts Coating | | 6 | 6 | | | |
| (Type : GALVANIZED) | | | | | | |
| Sidewalk | | X | X | | | |
| Girder Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | 0 | 0 | 0 | 1 | | |
| Now | 0 | 0 | 0 | 1 | | |
| Girders | | 3 | 3 | Diagonal cracks S1G1, S2G1,9, & S3G1,9 <0.5m long. Typical diagonal SM cracks, curb girders only, less than 0.5m - photo. The girders aren't acting together, long. cracks. S2G1 spall at P2 with stained diagonal crack. Chips at diaphragm bolt locations - photo. Exterior girder coating is peeling. (S curb lif pockets not grouted. 09May2011). | | |
| Last Complete Inspection Date | 29-Nov-2012 | | | | | |
| Cracking (Y/N) | Yes | | | | | |
| Spalling (Percent Area) | 0 | | | | | |
| Lift or Connector Pocket Grouted (Y/N) | No | | | | | |
| (Number Of Girders : 27) | | | | | | |
| Span Alignment Problems | | | | | | |
| Vertical (Y/N) | | No | | | | |
| Horizontal (Y/N) | | No | | | | |
| Superstructure General Rating | | 3 | 3 | | | |

| Substructure | | | | | | | | |
|---|-----------|-----------|-----------|---|--|--|-----------|---|
| Bridge Component | | Last | Now | Explanation of Condition | | | | |
| Abutments | | | | | | | | |
| (Extended Backwall Piles (Y/N) : N) | | | | Active staining from leaky abut jnt at both ends. | | | | |
| (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 | | | | | | | 7 | 7 |
| (Type : CONCRETE) | | | | | | | | |
| (Depth(mm) : 800) | | | | | | | | |
| (Width(mm) : 650) | | | | | | | | |
| Backwalls/Breastwalls | | | N | N | | | | |
| Greatest Height (m) | | 1.00 | | | | | | |
| Wingwalls | | | 7 | 7 | | | | |
| (Total Number of Bearing Piles : 0:0) | | | | | | | | |
| Piles Detail Ratings | | | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | | | |
| Last | 100 | 0 | 0 | 0 | | | | |
| Now | 100 | 0 | 0 | 0 | | | | |
| Piles | | | N | N | | | | |
| Paint/Coating | | | 5 | 5 | | | | |
| Abutment Stability | | | 8 | 8 | | | | |
| Scour/Erosion | | | 4 | 4 | Gully, 500mm x 300mm at NW corner - photo. | | | |
| Piers/Bents | | | | | | | | |
| (Type : PIER-COLUMN) | | | | | | | | |
| (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 | | | | 4 | 4 | | | |
| (Type : CONCRETE) | | | | | | | | |
| (Depth(mm) : 650) | | | | | | | | |
| (Width(mm) : 350) | | | | | | | | |
| (Total Number of Bearing Piles : 6:6) | | | | | | | | |
| Piles Detail Ratings | | | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | | | |
| Last | 0 | 0 | 0 | 0 | | | | |
| Now | 0 | 0 | 0 | 0 | | | | |
| Pier Shaft/Piles | | | 7 | 7 | | | | |
| Greatest Height (m) | | 3.40 | | | | | | |
| Bracing/Struts/Sheathing | | | 7 | 7 | | | | |
| Nose Plate | | | X | X | | | | |
| Paint/Coating | | | 4 | 4 | Peeling with minor rust in spots. Orange. | | | |
| (Colour Description :) | | | | | | | | |
| (Colour Code :) | | | | | | | | |

| Substructure | | | | |
|--|-----|----------|----------|-------------------------------|
| Bridge Component | | Last | Now | Explanation of Condition |
| Pier Stability | | 8 | 8 | |
| Scour | | 8 | 8 | |
| Debris (Y/N) | Yes | | | Minor drift at u/s end of P2. |
| Substructure General Rating | | 4 | 4 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel | | | | |
| (U/S Direction : N) | | | | |
| (D/S Direction : S) | | | | |
| Alignment | | 7 | 7 | |
| Bank Stability | | 6 | 6 | |
| HWM (m below Top of Curb) | | | | HWM not visible. |
| Drift (Y/N) | No | | | |
| Slope Protection | | 7 | 7 | |
| (Type : NATURAL; NATURAL) | | | | |
| Guidebank/Spurs | | X | X | |
| Adequacy of Opening | | 7 | 7 | |
| (Fish Compensation Measure 1 : NONE) | | | | |
| (Fish Compensation Measure 2 : NONE) | | | | |
| Channel General Rating | | 7 | 7 | |

| Maintenance Recommendations | | | | | | | | | | |
|---|------------------------|--|---------------------|----------------------|-------------|----------------------------|------------|--|--|--|
| Inspector Recommendations | Year | Inspector Comments | Department Comments | Target Year | Est. Cost | Cat # | | | | |
| REPAIR/REPLACE BRIDGE RAIL | | | | | | | | | | |
| SEAL CURBS | 2013 | Patch curb lift pockets, if not yet done. | | | | | | | | |
| PATCH DECK | 2013 | Patch any delams. approx 2m2; seal cracks. | | | | | | | | |
| OVERLAY DECK | | | | | | | | | | |
| STRAIGHTEN/REPLACE MEMBERS | | | | | | | | | | |
| WASHING | | | | | | | | | | |
| SHOTCRETE REPAIRS | | | | | | | | | | |
| CORE TIMBER CAPS/CORBELS | | | | | | | | | | |
| REPAIR/REPLACE TIMBER CAPS | | | | | | | | | | |
| REPAIR ABUTMENT SCOUR/EROSION | 2013 | Seal A1 jnt, 3m3 pitrun, on hslp. | | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | | | | |
| INSTALL STRUTS | | | | | | | | | | |
| OTHER ACTION | 2013 | Consider new KOCH jnts or similar. | | | | | | | | |
| OTHER ACTION | 2013 | 30m3 Class 1 riprap @ SW ditch. | | | | | | | | |
| OTHER ACTION | 2013 | Patch S2G1 at P2. Remove delam concrete & patch both piles. | | | | | | | | |
| OTHER ACTION | 2013 | Reset HMs to std. | | | | | | | | |
| OTHER ACTION | 2013 | Spot repair pier pile, paint. | | | | | | | | |
| OTHER ACTION | 2013 | Patch potholes, both approaches. | | | | | | | | |
| OTHER ACTION | 2013 | Raise approach railt to std, thriebeam. | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 38.9/38.9 | Sufficiency Rating (Last/Now) (%) | 58.4/57.1 | Est. Repl. Yr | 2025 | Maint. Req'd. (Y/N) | Yes | | | |
| Special Comments for Next Inspection | Monitor girder cracks. | | 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 | 29-Aug-2014 | Previous Inspection Date | 09-May-2011 | | | | | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | | | | |
| Comment | | | | | | | | | | |

Maintenance Recommendations

| Inspector Recommendations | Year | Inspector Comments | Department Comments | Target Year | Est. Cost | Cat # |
|---|------------------------|--|----------------------------------|--|-----------------|-----------------------|
| REPAIR/REPLACE BRIDGE RAIL | | | | | | |
| SEAL CURBS | 2013 | Patch curb lift pockets, if not yet done. | Programmed | 2013 | | |
| PATCH DECK | 2013 | Patch any delams, approx 2m2; seal cracks. | Programmed | 2013 | | |
| OVERLAY DECK | | | | | | |
| STRAIGHTEN/REPLACE MEMBERS | | | | | | |
| WASHING | | | | | | |
| SHOTCRETE REPAIRS | | | | | | |
| CORE TIMBER CAPS/CORBELS | | | | | | |
| REPAIR/REPLACE TIMBER CAPS | | | | | | |
| REPAIR ABUTMENT SCOUR/EROSION | 2013 | Seal A1 jnt, 3m3 pitrun, on hslp. | Programmed | 2013 | | |
| PLACE ADDITIONAL RIP RAP | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | |
| INSTALL STRUTS | | | | | | |
| OTHER ACTION | 2013 | Consider new KOCH jnts or similar. | Defer until rehab or replacement | 2023 | | |
| OTHER ACTION | 2013 | 30m3 Class 1 riprap @ SW ditch. | Programmed | 2013 | | |
| OTHER ACTION | 2013 | Patch S2G1 at P2. Remove delam concrete & patch both piles. | Programmed | 2013 | | |
| OTHER ACTION | 2013 | Reset HMs to std. | Operations | 2013 | | |
| OTHER ACTION | 2013 | Spot repair pier pile, paint. | Defer until rehab or replacement | 2023 | | |
| OTHER ACTION | 2013 | Patch potholes, both approaches. | Programmed | 2013 | | |
| OTHER ACTION | 2013 | Raise approach rail to std, thriebeam. | Defer until rehab or replacement | 2023 | | |
| OTHER ACTION | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 38.9/38.9 | Sufficiency Rating (Last/Now) (%) | 58.4/57.1 | Est. Repl. Yr | 2025 | Maint. Req. (Y/N) Yes |
| Special Comments for Next Inspection | Monitor grider cracks. | | Department Comments | Currently scheduled in PMA for replacement in 2023. DA | | |
| Maintenance Reviewed By | Darron Ahlstedt | | Date | 04-Mar-2013 | 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 | 29-Aug-2014 | Previous Inspection Date | 09-May-2011 |
| Inspection Cycle (Default) (months) | 21 | | |
| Comment | | | |