

| Bridge Inspection | | | | | | | | | |
|-------------------------------------|-------------------------------------|--------|-------------------|----------|---|---------------------------------|---|----|--|
| Bridge File Number | 85020 W-2 Bridge | | | | Form Type | CON | | | |
| Year Built/Year Supstr | 2006/2006 | | | | Lot No. | 3 | | | |
| Bridge or Town Name | ANTHONY HENDAY DRIVE | | | | Inspector Name | Wade Nanninga | | | |
| Located Over | BLACKMUD CREEK, 6.95.2, WATERCRS-ST | | | | Inspector Class | BR CLS A | | | |
| Located On | 216:06 R1 1.511 | | | | Assistant Name | | | | |
| Water Body Cl./Year | | | | | Assistant Class | | | | |
| Navigabil. Cl./Year | | | | | Inspection Date | 27-Feb-2013 | | | |
| Legal Land Location | NW SEC 29 TWP 51 RGE 24 W4M | | | | Data Entry By | Theresa Lacusta | | | |
| Longitude, Latitude | -113:30:46, 53:26:06 | | | | Data Entry Date | 19-Mar-2013 | | | |
| Road Authority | Alberta Transportation (AIT) | | | | Reviewer Name | Eric Carcoux | | | |
| Contract Main. Area | ANTHONY HENDAY DRIVE | | | | Review Date | 14-Mar-2013 | | | |
| Clear Roadway/Skew | 18.5 / | | | | Dept. Reviewer Name | Brent Herrick | | | |
| AADT/Year | 51,020 / 2011 (A) | | | | Dept. Review Date | 20-Mar-2013 | | | |
| Road Classification | RFD-412.4-110 | | | | Follow-Up By | | | | |
| Detour Length (km) | 1 | | | | | | | | |
| Allowable Load (t): | Single | CS1 28 | Semi | CS2 49 | Train | CS3 62 | ----> On Critical Spans ---->Critical Member | | |
| Design Loading: | | | | | | | ----> Primary Span | | |
| Posting Information | | | | | | | | | |
| Required Load Posting (t) | Single | | | | Semi | | Truck Train | | |
| Posted Loading (t) | Single | | | | Semi | | Truck Train | | |
| Posted: | Lane | WB | At Junction (Y/N) | No | In Advance (Y/N) | No | At Bridge (Y/N) | No | |
| Posted: | Lane | EB | At Junction (Y/N) | | In Advance (Y/N) | | At Bridge (Y/N) | | |
| Remarks | Not required. | | | | | | | | |
| Hazard Marker At Bridge (Y/N) | Yes | | | | | | | | |
| Remarks | | | | | | | | | |
| Other Sign Types | | | | | | | | | |
| Utilities (Located at) | | | | | | | | | |
| Utility Attachments | | | | | | | | | |
| Telephone | | | | | Gas | | | | |
| Power | Street lighting. | | | | Municipal | Municipal utilities throughout. | | | |
| Others | | | | | Problem (Y/N) | No | | | |
| Remarks | | | | | | | | | |
| Approach Road | | | | | | | | | |
| | | | Last | Now | Explanation of Condition | | | | |
| Horizontal Alignment | | | 8 | 8 | Slight (H & V) curves to the West. | | | | |
| Vertical Alignment | | | 8 | 8 | | | | | |
| Roadway Width (m) | 18.500 | | | | Settlement at approaches. | | | | |
| Approach Bump | | | 5 | 5 | Wide crack in ACP at approaches. | | | | |
| Guardrail (Y/N) | Yes | | | | | | | | |
| Guardrail | | | 3 | 8 | | | | | |
| Length (m) | 60.000 | | | | | | | | |
| Current Standard (Y/N) | Yes | | | | | | | | |
| Termination Type | Crash terminal | | | | | | | | |
| Drainage | | | 4 | 4 | NE corner erosion protected with riprap. SW erosion 2m x 0.3m x 8m | | | | |
| Approach Road General Rating | | | 8 | 8 | | | | | |

| Superstructure | | | | | |
|--|-------|--------------|-------|--------------------------|--|
| Bridge Component | | Last | Now | Explanation of Condition | |
| (Primary Span : CA, 3 Spans, Lengths(m): 16.5-41.6-16.5, A-Ident Number:) | | | | | |
| Special Features | | | | | |
| Special Feature | | | X | | |
| (Type :) | | | | | |
| Special Feature | | | X | | |
| (Type :) | | | | | |
| Wearing Surface/Deck Top Detail Ratings | | | | | |
| | N (%) | 1 (%) | 2 (%) | 3 (%) | |
| Last | | | | | |
| Now | | | | | |
| Wearing Surface | | | 5 | 4 | Longitudinal and tranverse cracks in ACP. Minor unravelling/potholes forming. |
| (Material Type : ACP) | | | | | |
| (Thickness(mm) : 80) | | | | | |
| Deck Top | | | N | N | |
| Deck Rideability | | | 9 | 8 | |
| Deck Joints | | | X | X | Integral. |
| Temperature (deg. C) | | | | | |
| (Expansion Type :) | | | | | |
| (Fixed Type :) | | | | | |
| Gap Size (mm) | | Gap Location | | | |
| | | | | | |
| Deck Drainage | | | 9 | 9 | No drains. |
| Drains Clogged (Y/N) | | No | | | |
| Curbs/Median | | | 9 | 9 | 150mm high. |
| (Curb Type : Standard) | | | | | |
| Scaling (Percent Area) | | 0 | | | |
| Bridge Rail | | | 9 | 9 | |
| (Type : GALVANIZED STEEL BRIDGE TUBE) | | | | | |
| Bridge Rail Posts | | | 9 | 9 | |
| (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL) | | | | | |
| Bridge Rail/Posts Coating | | | 9 | 8 | |
| (Type : GALVANIZED) | | | | | |
| Sidewalk | | | X | X | |
| Girders | | | 9 | 9 | Box girders. |
| Diaphragms/Cross Frame | | | X | X | |
| Bearings | | | N | N | 20mm thick. |
| Temperature (deg. C) | | -5 | | | |
| (Expansion Type : REINFORCED PAD BEARING) | | | | | |
| (Fixed Type :) | | | | | |
| Coating Adequate (Y/N) | | Yes | | | |
| Functioning (Y/N) | | Yes | | | |
| Deck Underside | | | 9 | 9 | |
| Stains (Percent Area) | | 0 | | | |
| Span Alignment Problems | | | | | |
| Vertical (Y/N) | | No | | | |
| Horizontal (Y/N) | | No | | | |

| Superstructure | | | | |
|--|----|------|-----|---|
| Bridge Component | | Last | Now | Explanation of Condition |
| (Primary Span : CA, 3 Spans, Lengths(m): 16.5-41.6-16.5, A-Ident Number:) | | | | |
| Superstructure General Rating | | 9 | 9 | |
| Substructure | | | | |
| Bridge Component | | Last | Now | Explanation of Condition |
| Abutments | | | | |
| Bearing Seats | | 9 | 9 | |
| Backwalls/Breastwalls | | 7 | 7 | Hairline cracking with efflorescence near center of bridge on W abut. |
| Wingwalls | | 9 | 7 | Staining @ all corners. |
| Piles | | N | 8 | Diagonal concrete supports - random narrow diagonal cracks. |
| Paint/Coating | | X | 8 | |
| Abutment Stability | | 9 | 9 | |
| Scour/Erosion | | 4 | 4 | Abutment fill settling, 200mm gap under backwall at NE approach. |
| Piers/Bents | | | | |
| (Type : PIER-COLUMN) | | | | Arch with concrete walls supporting box girders. |
| Bearing Seats/Caps | | 9 | 9 | |
| (Type : CONCRETE) | | | | |
| Pier Shaft/Piles | | 9 | 7 | Hairline narrow random cracking. |
| Nose Plate | | X | X | |
| Paint/Coating | | X | X | |
| (Colour Description :) | | | | |
| (Colour Code :) | | | | |
| Pier Stability | | 9 | 9 | |
| Scour | | 9 | N | |
| Debris (Y/N) | No | | | |
| Substructure General Rating | | 7 | 7 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel | | | | |
| (U/S Direction : S) | | | | |
| (D/S Direction : N) | | | | |
| Alignment | | 8 | 8 | |
| Bank Stability | | 8 | 8 | |
| HWM (m below Top of Curb) | | | | HWM not visible. |
| Drift (Y/N) | No | | | |
| Slope Protection | | 4 | 4 | Lower section rock, mid granular, upper section barch mulch. (0.3 wide x 0.3 deep erosion gully NW wingwall.-29-Apr-2011) Settled backwall fill. |
| (Type : RIP RAP; RIP RAP) | | | | |
| Guidebank/Spurs | | X | X | |
| Adequacy of Opening | | 9 | 9 | |
| (Fish Compensation Measure 1 : NONE) | | | | |
| (Fish Compensation Measure 2 : NONE) | | | | |

| Structure Usage | | | | |
|-------------------------------|--|-------------|------------|---------------------------------|
| | | Last | Now | Explanation of Condition |
| Channel General Rating | | 8 | 4 | |

| Maintenance Recommendations | | | | | | | |
|---|---------------------------------|--|---------------------------|---------------|-----------|-------------------|-----|
| Inspector Recommendations | Year | Inspector Comments | Department Comments | Target Year | Est. Cost | Cat # | |
| REPAIR/REPLACE BRIDGE RAIL | | | | | | | |
| GALVANIZE/PAINT BRIDGE RAIL | | | | | | | |
| RETROFIT BRIDGE RAIL | | | | | | | |
| SEAL CURBS | | | | | | | |
| PATCH DECK | 2013 | Seal cracks in deck ACP and at approaches. | | | | | |
| 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 | 2013 | Repair SW ditch erosion. | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 88.9/88.9 | Sufficiency Rating (Last/Now) (%) | 78.8/72.3 | Est. Repl. Yr | 2080 | Maint. Req. (Y/N) | Yes |
| Special Comments for Next Inspection | Monitor erosion along wingwall. | | 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 | Kris Bosters | | Previous Assistant's Name | | | | |
| Next Inspection Date | 27-Nov-2014 | | Previous Inspection Date | 29-Apr-2011 | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | |
| Comment | | | | | | | |