| Bridge Inspection | | | | | | | | | | | | | | | | |
|---|---------|----------|---------|-----------|-------------------|-----------|-----------------------------|-----------------------------|--|----------------------------------|-----------|-------------|----------------|---|---------------|-----|
| Bridge File Number 01085 -1 Bridge | | | | | | | | | Form Type | | | PSR | | | | |
| Year Built/Year | | 190 | 6/197 | 3 | | | | | Lot No. | | | 2 | | | | |
| Supstr | NI | 001 | | T DDD0 | | | | | Inspector Name | | | Owen Salava | | | | |
| Bridge or Town | Name | | | T BRDG | 2 2 14/4 | TEDOD | - C | - | Inspector Class | | | BR CLS A | | | | |
| Located Over | | | | R RIVER | λ, 3, WA | HERCK | - | | | Assistant Name | | | | | | |
| Located On 21:18 C1 33.507 | | | | | | | | Assistant Class | | | | | | | | |
| Water Body Cl./Year | | | | | | | | Inspection Date 19-Sep-2012 | | | | | | | | |
| Navigabil. Cl./Year | | | | | 22 \\/4\ | 1 | | Data Entry By Marcia Chavez | | | | | | | | |
| Legal Land Location SW SEC 34 TWP 38 RGE 22 W | | | | 22 VV4IV | 1 | | Data Entry Date 02-Oct-2012 | | | | | | | | | |
| Longitude, Latitude -113:04:33, 52:18:20 Road Authority Alberta Transportation (AIT) | | | | | T\ | | | Reviewer Name John O'Brien | | | | | | | | |
| Road Authority Contract Main. A | \roa | CM | | anspona | illon (Ai | 1) | | | Review Date 27-Sep-2012 | | | | | | | |
| Clear Roadway/ | | 8.5 | | | | | | | Dept. Reviewer Name Andrew Smikles | | | | | | | |
| AADT/Year | SKEW | | / 201 | 1 (۸) | | | | | | | ew Date | : | 16-Oct-2012 | | | |
| Road Classificat | ion | | J-210 | | | | | | | ow-Up | Ву | | | | | |
| Detour Length (| | 100 | | . 10 | | | | | | | | | | | | |
| Allowable Load | | | CS1 | 28 | | Semi | CS | S2 49 | Train CS | | cs | 33 62 | | > On Critical Spans >Critical Member | | |
| Design Loading: | | | HS20 |) | | · | | | | | | | | | > Primary | |
| | | | | | | | Po | sting Ir | nform | ation | | | | | , | 1 |
| Required Load F | Posting | (t) | | | Single | ì | | | | Semi | | | Truck Train | | | |
| Posted Loading | (t) | | | Single | | | | | | Semi | | | | Truck Train | | |
| Posted: | Lane | 1 | NB | | At Junction (Y/N) | | l) | No | In Ad | | ance (Y | /N) | No | At Bı | ridge (Y/N) | No |
| Posted: | Lane | 5 | SB | | At Junc | tion (Y/N | 1) | No | | In Adv | ance (Y | /N) | No | | | No |
| Remarks No posting required. | | | | | | | | | | | | | | | | |
| Hazard Marker At Bridge (Y/N) No | | | | | | | | | | | | | | | | |
| Remarks | | | | | | | | | | | | | | | | |
| Other Sign Types River I.D, Slippery W | | | | | ery When | We | et, 65 kn | n/hr, I | No Fis | hing. | | | | | | |
| | | | | | | | | ilities (L | ocat | ed at) | | | | | | |
| Utility Attachmer | nts T | ELEF | PHON | IE UTILIT | TIES-PH | ONE LIN | 1E | | | | | | | | | |
| Telephone | West | curb. | | | | | | | | Gas | | | | | | |
| Power | 2 wire | s 40 | m Nor | th. | | | | | Municipal | | | | | | | |
| Others | Fibred | • | | | | | | | | Problem (Y/N) No | | | | | | |
| Remarks | Inside | con | crete ' | West cur | b. | | | | | | | | | | | |
| | | | | | | | | Approa | | | | | | | | |
| Llawina natal Aliana | | | | | | La | st | Now | Explanation of Condition | | | | | | | |
| Horizontal Alignm | | | | | | | 5 | 5 | Curve to the North and South. Approach at NE & NW. | | | | | | | |
| Vertical Alignme | | | | | | | 5 | 5 | Limit | Limited sight distance on grade. | | | | | | |
| Roadway Width | ` ' | | | 8.300 | | | | | 11.3 | m incl | uding tu | rning | g lane. | | | |
| Approach Bump | | | | l | | | 6 | 6 | | | | | | | | |
| Guardrail (Y/N) | | | | Yes | | | | | NW | transiti | ion only | con | nected by one | e o holt | to be connect | ted |
| Guardrail | | | | | | | 4 | 4 | SE | connec | tion also | o mis | ssing lower be | olt to l | bridgerail. | |
| Length (m) | | . | | 38.000 | | | | | Insu | fficient | posts: r | not tl | hrie beam. | | | |
| Current Stand | | N) | | No | | | | | - | | , , . | • | - > | | | |
| Termination Ty | ype | | | TURNE | ושסם ט | N | _ | | ,, | | . n | | 0.1.1 | , | | |
| Drainage | | | | | | | 7 | 7 | Void | l besid | e NW tro | ough | n & below NW | / joint | plumbing. | |
| Approach Road | d Gene | ral F | Rating | I | | | 5 | 5 | | | | | | | | |

| | | | | | Supers | structure | | |
|---|-----------------------|---------------|---------------|----------|------------|---|--|--|
| Bridge Com | ponent | | | | Now | | | |
| (Primary Spa | an : PO, 5 Spa | ns, Lengths(| m): 21.3-41.5 | -41.5-41 | .5-21.3 | 3, A-Ident Number:) | | |
| Special Feat | tures | | | | | | | |
| Special Feat | ure | | | | X | | | |
| (Type:) | | | | | | | | |
| Special Feat | ure | | | | X | | | |
| (Type:) | | | | | | | | |
| Wearing Sur | face/Deck Top | Detail Rating | | | | | | |
| | N (%) | 1 (%) | 2 (%) | 3 (%) | | _ | | |
| Last | 0 | 0 | 0 | | 0 | _ | | |
| Now | 0.0 | 0.0 | 0.0 | C | 0.0 | | | |
| Wearing Sur (Material T COAT) (Thickness | ype : CONCR I | ETE - CONVE | ENTIONAL CH | IIP SEA | 7 | (Random narrow longitudinal cracks in concrete deck. 27Feb2009). | | |
| | nection Probler | n No | | | | | | |
| Deck Top | | | | N | N | | | |
| Deck Rideab | pility | | | 7 | 7 | | | |
| Deck Joints | | | | 4 | 6 | | | |
| Temperatu | re (deg. C) | 15 | | | | | | |
| (Expansion | n Type : FINGE | R PLATES) | | | | | | |
| (Fixed Typ | e:) | | | | | | | |
| Gap Size (| mm) | Gap | Location | | | | | |
| 20 | | N. ab | ut | | | | | |
| 135 S. abut | | | | | | | | |
| | | | | | | _ | | |
| | | | | | | _ | | |
| | | | | | | | | |
| | | | | | | | | |
| Deck Draina | | | | 4 | 4 | No drains on grade. Erosion along NW wingwall & at NE corner. Gutters have loose | | |
| Drains Clo | gged (Y/N) | No | | | | chips. | | |
| Curbs/Media | ın | | | 4 | 4 | Small local delam/corrosion spot in W curb face in S2 (photo). | | |
| (Curb Type | e : Standard) | | | | | | | |
| Scaling (Pe | ercent Area) | 0 | | | | | | |
| Bridge Rail | | | | 7 | 7 | | | |
| (Type : GA | LVANIZED S | TEEL BRIDG | E TUBE) | | | | | |
| Bridge Rail F | Posts | | | 4 | 4 | 14 posts A/B with insufficient bolt length at 4 post locations on E side | | |
| (Type: GA | LVANIZED PO | OST STEEL; | SALVANIZED | POST | | & 7 post locations at W side. | | |
| ŠŤĖEL) | Danta O'' | | | | | Superficial rusting @ base of posts. | | |
| | Posts Coating | | | 6 | 6 | - | | |
| | LVANIZED) | | | V | | | | |
| Sidewalk | | | | X | X | | | |
| Girder Detail | Ratings | | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (cou | unt) | S3 girders not accessible at this inspection. | | |
| Last | 4 | 0 | 0 | | 0 | | | |
| Now | 4 | 0 | 0 | | 0 | | | |
| Girders | | | | 4 | 4 | Wide cracks @ S1G1,3 & 4 behind shoe plates. | | |
| Cracking (| Y/N) | Yes | | | | Honeycomb S2G2. 10% corroded. | | |
| | ercent Area) | 0 | | | | Corrosion @ S4G1 bottom flange & S5G4 top flange. | | |
| (Number Of | | | | | | S1G4 bottom flange spall near pier. | | |
| | | | | | D | 2 of 5 | | |

| | | | Supers | tructure | | | | |
|--|---------------------------|--------|--------|--|--|--|--|--|
| Bridge Component | | | Now | | | | | |
| (Primary Span : PO, 5 Spans, L | engths(m): 21.3-41.5-4 | | | · • | | | | |
| Diaphragms/Cross Frame | 9 | 5 | 5 | Abut diaphragms are corroding. | | | | |
| | | | | | | | | |
| Bearings | | 4 | 4 | Anchor pins have been bent towards stream due to excessive | | | | |
| Temperature (deg. C) | 15 | | | movement with cracked grout pads @ both abuts; 10mm @ N, 90mm @ S - photo. | | | | |
| (Expansion Type : REINFORC TEFLON AND STAINLESS S | ED NEOPRENE BEAR TEEL) | RING W | /ITH | Spalls & cracks @ A1 bearing pads. Neoprene pads @ abuts. Pots @ piers. | | | | |
| (Fixed Type : POT BEARING) | | | | | | | | |
| Coating Adequate (Y/N) | No | | | Teflon coming off guides @ P1 & 4 bearings. 10% superficial corrosion @ ext. | | | | |
| Functioning (Y/N) | Yes | | | A2 fully expanded at 15 deg. celsius. | | | | |
| Deck Underside | | 6 | 6 | Minor corrosion stain @ exterior. | | | | |
| Stains (Percent Area) | 2 | | | | | | | |
| Span Alignment Problems | | | | | | | | |
| Vertical (Y/N) | No | | | | | | | |
| Horizontal (Y/N) | | | | | | | | |
| Superstructure General Rating | 9 | 4 | 4 | | | | | |
| | | | Subst | ructure | | | | |
| Bridge Component | | Last | Now | Explanation of Condition | | | | |
| Abutments | | | | | | | | |
| Bearing Seats/Caps | | 6 | 6 | | | | | |
| (Type : CONCRETE) | | | _ | | | | | |
| Backwalls/Breastwalls | | 5 | 5 | Spalled @ NE abutment. | | | | |
| Wingwalls | | 6 | 6 | | | | | |
| Piles | | N | N | | | | | |
| Paint/Coating | | 5 | 5 | Cracking & peeling but sealed. Map cracking of wingwall coating. | | | | |
| Abutment Stability | | 7 | 7 | | | | | |
| Scour/Erosion | | 6 | 6 | Erosion gullies at all 4 corners, worst at NW & NE (photos). | | | | |
| Piers/Bents | | | | | | | | |
| (Type : PIER-SOLID) | | | | Several vertical cracks from top to bottom up to 5 mm wide @ P2 & | | | | |
| Bearing Seats/Caps | | 6 | 5 | P3. | | | | |
| (Type : CONCRETE) | | | | | | | | |
| (Total Number of Bearing Piles : | 0:0:0:0) | | _ | Vertical spalls near base at P2,3. | | | | |
| Pier Shaft/Piles | | 6 | 6 | | | | | |
| Bracing/Struts/Sheathing | | X | X | | | | | |
| Nose Plate | | 7 | 7 | | | | | |
| Paint/Coating | | 4 | 4 | Superficial corrosion 75% at pier 2 & 3. Graffitti at P1 (photo). | | | | |
| (Colour Description :) | | | | | | | | |
| (Colour Code :) | | | | | | | | |
| Pier Stability | | 7 | 7 | | | | | |
| Scour | | N | 6 | Under water; minor scour at noses. | | | | |
| Debris (Y/N) | No | | | | | | | |
| Substructure General Rating | | 6 | 5 | | | | | |
| The state of the s | | | | | | | | |

| | | 5 | Structu | re Usage |
|--------------------------------|-------------------------------|---|---------|--------------------------|
| | | | Now | Explanation of Condition |
| Channel | | | | |
| (U/S Direction : W) | | | | |
| (D/S Direction : E) | | | _ | |
| Alignment | | 8 | 8 | |
| Bank Stability | | | 5 | Steep cut at S. |
| HWM (m below Top of Curb) | IWM (m below Top of Curb) 6.0 | | | 27Feb2009 |
| Drift (Y/N) | No | | | HWM not visible. |
| Slope Protection | | 7 | 7 | |
| (Type: NATURAL; NATURAL |) | | | |
| Guidebank/Spurs | | | X | |
| Adequacy of Opening | | | 8 | |
| (Fish Compensation Measure 1 : | NONE) | | | |
| (Fish Compensation Measure 2 : | NONE) | | | |
| Channel General Rating | | 7 | 7 | |

01085 -1 Bridge

| | | | | Maintena | ance Recommend | lations | | | | | |
|---|----------|---|-----------|-----------------------------------|-------------------|-------------------------------|---|------|-----------------|-----------|-------|
| Inspector Recommendations | | Year | Inspecto | r Comments | | Department Comm | nents | | Target Year | Est. Cost | Cat # |
| REPAIR/REPLACE BRIDGE RAIL | | | | | | | | | | | |
| GALVANIZE/PAINT BRIDGE RAIL | | | | | | | | | | | |
| SEAL CURBS | | 2013 | At sealin | g program, patch de | lam in W curb S2. | | | | | | |
| PATCH DECK | | | | | | | | | | | |
| SEAL DECK | | | | | | | | | | | |
| OVERLAY DECK | | | | | | | | | | | |
| REPAIR/REPLACE DECK JOINTS | | | | | | | | | | | |
| RESET/ PAINT BEARINGS | | | | | | | | | | | |
| WASHING | | | | | | | | | | | |
| SHOTCRETE REPAIRS | | | | | | | | | | | |
| REPAIR ABUTMENT SCOUR/EROS | ION | 2013 | Repair g | ullies at hslp corners | s (NE & NW). | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | | | | | |
| OTHER ACTION | | Upgrade approach guardrail to meet straise at NW. Replace missing bolts at SE & NW connections. | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | |
| Structural Condition Rating (Last/N (%) | low) | 55.6/50. | 0 | Sufficiency Rating (Last/Now) (%) | | 53.3/51.0 | Est. Repl. Yr | 2035 | Maint. Red | qd. (Y/N) | Yes |
| Special Monitor girder end Comments for Next Inspection | cracking | | | | | 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 Dave | | .am | | | Previous | us Assistant's Name | | | | | |
| Next Inspection Date | 19-Jun | -2014 | | | | s Inspection Date 09-Nov-2010 | | | | | |
| Inspection Cycle (Default) (months) 21 | | | | | 1.1211000 | -1 | , | | | | |
| Comment | | | | | | | | | | | |

Bridge Inspection & Maintenance System (Web 2005)