

| Bridge Inspection | | | | | | | |
|------------------------|--|---------------|------|---------------------|---------------|---------------|---|
| Bridge File Number | 07594 -1 Bridge | | | Form Type | PCS | | |
| Year Built/Year Supstr | 1967/1967 | | | Lot No. | 2 | | |
| Bridge or Town Name | SPONDIN | | | Inspector Name | Jason Saly | | |
| Located Over | TRIBUTARY TO SOUNDING CREEK, 4.4.15, WATERCRS-ST | | | Inspector Class | BR CLS A | | |
| Located On | 872:02 C1 19.876 | | | Assistant Name | | | |
| Water Body Cl./Year | | | | Assistant Class | | | |
| Navigabil. Cl./Year | | | | Inspection Date | 09-Jun-2011 | | |
| Legal Land Location | SW SEC 25 TWP 34 RGE 11 W4M | | | Data Entry By | Marcia Chavez | | |
| Longitude, Latitude | -111:26:46, 51:56:43 | | | Data Entry Date | 27-Jun-2011 | | |
| Road Authority | Alberta Transportation (AIT) | | | Reviewer Name | John O'Brien | | |
| Contract Main. Area | CMA21 | | | Review Date | 17-Jun-2011 | | |
| Clear Roadway/Skew | 8.2 / -15 deg. (LHF) | | | Dept. Reviewer Name | Chris Black | | |
| AADT/Year | 100 / 2010 (A) | | | Dept. Review Date | 30-Jun-2011 | | |
| Road Classification | RCU-209G-90 | | | Follow-Up By | | | |
| Detour Length (km) | 5 | | | | | | |
| Allowable Load (t): | Single | CS1 28 GIRDER | Semi | CS2 49 GIRDER | Train | CS3 65 GIRDER | ---> On Critical Spans --->Critical Member |
| Design Loading: | HS20 | | | | | | ---> 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 posted. | | | | | | | |
| Hazard Marker At Bridge (Y/N) | Yes | | | | | | | |
| Remarks | | | | | | | | |
| Other Sign Types | (CP) Northwest corner of railing. | | | | | | | |

| Utilities (Located at) | | | |
|------------------------|-------------------------|--|------------------|
| Utility Attachments | | | |
| Telephone | At West fence line. | | Gas |
| Power | East ditch r/w and wire | | Municipal |
| Others | | | Problem (Y/N) No |
| Remarks | | | |

| Approach Road | | | | |
|-------------------------------------|---------------|----------|----------|--|
| | | Last | Now | Explanation of Condition |
| Horizontal Alignment | | 8 | 8 | Field. Approach 60m to the NE side. |
| Vertical Alignment | | 8 | 8 | Wide unsealed cracks over abuts (photo). |
| Roadway Width (m) | 8.000 | | | |
| Approach Bump | | 7 | 7 | |
| Guardrail (Y/N) | Yes | | | One post split NW & 2 at SE. |
| Guardrail | | 5 | 4 | |
| Length (m) | 15.400 | | | |
| Current Standard (Y/N) | No | | | Not enough post, short. |
| Termination Type | TURNDOWN ENDS | | | |
| Drainage | | 7 | 7 | |
| Approach Road General Rating | | 8 | 8 | |

| Superstructure | | | | | |
|--|-----------|-------------|-----------|---|--|
| Bridge Component | | Last | Now | Explanation of Condition | |
| (Primary Span : HC, 3 Spans, Lengths(m): 6.1-6.1-6.1, A-Ident Number:) | | | | | |
| Special Features | | | | | |
| Special Feature | | | X | | |
| (Type :) | | | | | |
| Special Feature | | | X | | |
| (Type :) | | | | | |
| Wearing Surface/Deck Top Detail Ratings | | | | | |
| | N (%) | 1 (%) | 2 (%) | 3 (%) | |
| Last | 0 | 0 | 0 | 0 | |
| Now | 0.0 | 0.0 | 0.0 | 0.0 | |
| Wearing Surface | | | 6 | 5 | Wide unsealed cracks over piers and abuts. |
| (Material Type : ACP - CONVENTIONAL CHIP SEAL COAT) | | | | | |
| (Thickness(mm) : 75) | | | | | |
| Lateral Connection Problem (Y/N) | | No | | | |
| Deck Top | | | N | N | |
| Deck Rideability | | | 7 | 7 | |
| Deck Joints | | | N | N | Paved over. |
| Bump (Y/N) | | | | | |
| Deck Drainage | | | 8 | 7 | |
| Drains Clogged (Y/N) | | No | | | |
| Curbs/Median | | | 4 | 4 | Minor spalls and curb face. No action required at this time. |
| (Curb Type : Standard) | | | | | |
| Scaling (Percent Area) | | 2 | | | |
| Bridge Rail | | | 4 | 4 | Double layer. Missing rail to post attachment bolt NE corner. Post top @ SW, weld broken. |
| (Type : GALVANIZED STEEL FLEX BEAM) | | | | | |
| Bridge Rail Posts | | | 4 | 4 | |
| (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL) | | | | | |
| Bridge Rail/Posts Coating | | | 7 | 7 | |
| (Type : GALVANIZED) | | | | | |
| Sidewalk | | | X | X | |
| Girder Detail Ratings | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | |
| Last | 0 | 0 | 0 | 0 | |
| Now | 10 | 0 | 0 | 0 | |
| Girders | | | 4 | 4 | (Base course overlay. 20Sep2008). Wide long. crack in AZ in 1 leg in 5 girders w/no cracking in other leg. S3G4 @ P2 spall in leg. S1G4 punchout patch delam. and falling out. Hairline flexural cracks S1-2 W side not centered over cap. 10 of 12 lift pockets grout gone or deteriorated. |
| Last Complete Inspection Date | | 20-Sep-2008 | | | |
| Cracking (Y/N) | | Yes | | | |
| Spalling (Percent Area) | | 0 | | | |
| Lift or Connector Pocket Grouted (Y/N) | | No | | | |
| (Number Of Girders : 30) | | | | | |
| Span Alignment Problems | | | | | |
| Vertical (Y/N) | | No | | 35mm misalignment between spans 2 and 3 @ E curb. | |
| Horizontal (Y/N) | | Yes | | | |
| Superstructure General Rating | | | 4 | 4 | |

| Substructure | | | | | |
|--|-----------|-----------|-----------|--------------------------|---|
| Bridge Component | | Last | Now | Explanation of Condition | |
| Abutments | | | | | |
| (Extended Backwall Piles (Y/N) : Y) | | | | | |
| (Extended Backwall Piles Spacing(mm) : 1500) | | | | | |
| (Total Number of Caps/Corbels : 3:3) | | | | | |
| 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 : TREATED TIMBER) | | | | | |
| (Depth(mm) : 350) | | | | | |
| (Width(mm) : 305) | | | | | |
| Backwalls/Breastwalls | | | | 7 | 6 |
| Greatest Height (m) | | 2.00 | | | |
| Wingwalls | | | | 7 | 7 |
| (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 | |
| Piles | | | | 6 | 6 |
| Paint/Coating | | | | X | X |
| Abutment Stability | | | | 7 | 7 |
| Scour/Erosion | | | | 7 | 7 |
| Piers/Bents | | | | | |
| (Type : PIER-COLUMN) | | | | | |
| (Total Number of Caps/Corbels : 3:3) | | | | | |
| 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 | 6 |
| (Type : TREATED TIMBER) | | | | | |
| (Depth(mm) : 305) | | | | | |
| (Width(mm) : 355) | | | | | |
| (Total Number of Bearing Piles : 7:7) | | | | | |
| Piles Detail Ratings | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | |
| Last | 0 | 0 | 0 | 0 | |
| Now | 0 | 0 | 0 | 0 | |
| Pier Shaft/Piles | | | | 6 | 6 |
| Greatest Height (m) | | 3.60 | | | |
| Bracing/Struts/Sheathing | | | | 6 | 6 |
| Nose Plate | | | | X | X |
| Paint/Coating | | | | X | X |
| (Colour Description :) | | | | | |
| (Colour Code :) | | | | | |

| Substructure | | | | |
|--|----|----------|----------|---|
| Bridge Component | | Last | Now | Explanation of Condition |
| Pier Stability | | 4 | 4 | S1-2 @ west side pier leaning and girders not centered over cap. Cap rotating slightly. |
| Scour | | 5 | 5 | (Scour hole under bridge. 20Sep2008). |
| Debris (Y/N) | No | | | |
| Substructure General Rating | | 4 | 4 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel | | | | |
| (U/S Direction : W) | | | | |
| (D/S Direction : E) | | | | |
| Alignment | | 6 | 6 | |
| Bank Stability | | 7 | 7 | Good vegetation. |
| HWM (m below Top of Curb) | | | | HWM not visible. |
| Drift (Y/N) | No | | | |
| Slope Protection | | 5 | 5 | |
| (Type : RIP RAP; RIP RAP) | | | | |
| Guidebank/Spurs | | X | X | |
| Adequacy of Opening | | 7 | 7 | |
| (Fish Compensation Measure 1 : NONE) | | | | |
| (Fish Compensation Measure 2 : NONE) | | | | |
| Channel General Rating | | 5 | 5 | |

| Maintenance Recommendations | | | | | | | | | | |
|---|------------------------|---|---------------------|----------------------|-------------|--------------------------|------------|------------------------|----------|--|
| Inspector Recommendations | Year | Inspector Comments | Department Comments | Target Year | Est. Cost | Cat # | | | | |
| REPAIR/REPLACE BRIDGE RAIL | 2011 | 1 bridge post/rail connector bolt | | | | | | | | |
| SEAL CURBS | 2011 | Replace patch 0.1m3 OH-V on underside of girder. | | | | | | | | |
| PATCH DECK | | | | | | | | | | |
| OVERLAY DECK | | | | | | | | | | |
| STRAIGHTEN/REPLACE MEMBERS | | | | | | | | | | |
| WASHING | | | | | | | | | | |
| SHOTCRETE REPAIRS | | | | | | | | | | |
| CORE TIMBER CAPS/CORBELS | | | | | | | | | | |
| REPAIR/REPLACE TIMBER CAPS | | | | | | | | | | |
| REPAIR ABUTMENT SCOUR/EROSION | | | | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | | | | |
| INSTALL STRUTS | | | | | | | | | | |
| OTHER ACTION | 2011 | Seal cracks in ACP at Piers and Abut. | | | | | | | | |
| OTHER ACTION | 2011 | Replace 3 - TT guardrail posts | | | | | | | | |
| OTHER ACTION | 2011 | Grout lift hooks 0.2m3 NH | | | | | | | | |
| OTHER ACTION | 2011 | Weld top of bridge post/metalize or paint with zinc-rich paint. | | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 44.4/44.4 | Sufficiency Rating (Last/Now) (%) | 59.3/59.5 | Est. Repl. Yr | 2024 | Maint. Req. (Y/N) | Yes | Estimated Total | 0 | |
| Special Comments for Next Inspection | Monitor pier/movement. | | Department Comments | | | | | | | |
| Maintenance Reviewed By | | | Date | | | | | | | |
| Proposed Long-Term Strategy | | | | | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | | | | |
| Proposed Action | | | | | | | | | | |
| Previous Inspector's Name | Cameron Baron | Previous Assistant's Name | | | | | | | | |
| Next Inspection Date | 09-Sep-2014 | Previous Inspection Date | 20-Sep-2008 | | | | | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | | | | |
| Comment | | | | | | | | | | |

Maintenance Recommendations

| Inspector Recommendations | Year | Inspector Comments | Department Comments | Target Year | Est. Cost | Cat # |
|-------------------------------|------|---|----------------------------|-------------|-----------|-------|
| REPAIR/REPLACE BRIDGE RAIL | 2011 | 1 bridge post/rail connector bolt | Complete next time onsite. | | | |
| SEAL CURBS | 2011 | Replace patch 0.1m3 OH-V on underside of girder. | Complete next time onsite. | | | |
| PATCH DECK | | | | | | |
| OVERLAY DECK | | | | | | |
| STRAIGHTEN/REPLACE MEMBERS | | | | | | |
| WASHING | | | | | | |
| SHOTCRETE REPAIRS | | | | | | |
| CORE TIMBER CAPS/CORBELS | | | | | | |
| REPAIR/REPLACE TIMBER CAPS | | | | | | |
| REPAIR ABUTMENT SCOUR/EROSION | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | |
| INSTALL STRUTS | | | | | | |
| OTHER ACTION | 2011 | Seal cracks in ACP at Piers and Abut. | | | | |
| OTHER ACTION | 2011 | Replace 3 - TT guardrail posts | | | | |
| OTHER ACTION | 2011 | Grout lift hooks 0.2m3 NH | Complete next time onsite. | | | |
| OTHER ACTION | 2011 | Weld top of bridge post/metalize or paint with zinc-rich paint. | | | | |

| | | | | | | | |
|---|------------------|--|------------------|---------------|------|-------------------|-----|
| Structural Condition Rating (Last/Now) (%) | 44.4/44.4 | Sufficiency Rating (Last/Now) (%) | 59.3/59.5 | Est. Repl. Yr | 2024 | Maint. Req. (Y/N) | Yes |
|---|------------------|--|------------------|---------------|------|-------------------|-----|

| | | | |
|--------------------------------------|------------------------|---------------------|---|
| Special Comments for Next Inspection | Monitor pier/movement. | Department Comments | Currently programmed in PMA for replacement in 2022. DA |
|--------------------------------------|------------------------|---------------------|---|

| | | | | | |
|-------------------------------------|-----------------|---------------------------|-------------|-----------------|---|
| Maintenance Reviewed By | Darron Ahlstedt | Date | 28-May-2012 | Estimated Total | 0 |
| Proposed Long-Term Strategy | | | | | |
| On 3-Year Program (Y/N) | | | | | |
| Proposed Action | | | | | |
| Previous Inspector's Name | Cameron Baron | Previous Assistant's Name | | | |
| Next Inspection Date | 09-Sep-2014 | Previous Inspection Date | 20-Sep-2008 | | |
| Inspection Cycle (Default) (months) | 39 | | | | |

| | |
|---------|--|
| Comment | |
|---------|--|