| | | | | Br | idae | e Culve | ert Inspe | ection | | | | | | |
|---|--------------------|-------------------------|-----------------|--------------|---------------------|-----------|-----------------|-----------------|------------------|------------------|-----------------------|-----------------|--|--|
| Bridge File Nun | nber | 76245 -1 Bridge Culvert | | | | Guive | <u> </u> | Form Type | | CUL1 | | | | |
| Year Built 1965 | | | | .• | Lot N | | | | | 1 | | | | |
| Bridge or Town Name TWO HILLS | | | | | | | Inspector Name | | Jason Saly | | | | | |
| Located Over TRAIL-ANIMAL, OVER SP | | | | SP. | | | Inspector Class | | BR CLS A | | | | | |
| Located On 45:08 C1 8.072 | | | | <u> </u> | | | Assistant Name | | DIX OLO /X | | | | | |
| Water Body CI./Year | | | | | | | | Assistant Class | | | | | | |
| Navigabil. Cl./Y | | | | | | | | Inspection Date | | 22-Jan-2013 | | | | |
| | | SE SEC | 36 TWP 54 R | GF 12 W/4M | | | Data Entry By | | Marcia Chavez | 7 | | | | |
| Legal Land Location SE SEC 36 TWP 54 RGE 12 W4N | | | | OL IZ WHIVI | | | | ntry Date | | 01-Mar-2013 | | | | |
| Longitude, Latitude -111:37:46, 53:42:17 Road Authority Alberta Transportation (AIT) | | | (ΔΙΤ) | | | | er Name | | John O'Brien | | | | | |
| Road Authority Alberta Transportation (AIT) Contract Main. Area CMA14 | | | (/ (() | Review Date | | | | <u>'</u> | 13-Feb-2013 | | | | | |
| Clear Roadway/Skew 9.3 / | | | | | Dept. Reviewer Name | | | | | | | | | |
| AADT/Year | ORCW | 660 / 20 | 11 (Δ) | | Dept. Review Date | | | 28-Mar-2013 | | | | | | |
| Road Classifica | ation | RAU-20 | | | | | Follow- | | ato | 20 Mai 2010 | | | | |
| Detour Length | | 2 | 3 110 | | | | l Ollow | ор Бу | | | | | | |
| Bridge Culvert | ` , | | | | | | <u> </u> | | | | | | | |
| Number of Culv | | | 1 | | | | | | | | | | | |
| Pipe # | Barrel | | Span | Rise (or Dia | Dia.) Type | | | Length | | Corr. Profile | Pl./Slab Thickness | Shape | | |
| 1 | MAIN | | 1724 | 1901 | | MPE | | 20.7 | | 68X13 | 3.5 | ELLIPSE | | |
| Special Feature | | | | | | | | | | , | 1 | | | |
| Special Features Comment | | | | | | | | | | | | | | |
| | | | | | Po | otina In | nformati | on | | | | | | |
| Required Vert. | Clooron | oo Dootin | ag (m) | | FO | sung III | liorillau | OH | | | | | | |
| Posted Vertical | | | | | | | | | | | | | | |
| Posted: Lane | | | ridge (m) | In Advan | 20 (| V/NI) | No La | ane SB | | n Bridge (m) | In Advance | ce (Y/N) No | | |
| Remarks | | | attle crossing. | III Auvaii | ce (| 1/IN) I | NO L | alle SD | U | in bridge (III) | III Auvano | ce (1/IN) INO | | |
| Remarks | NOUTE | quirea, c | attie crossing. | | Heil | litios (I | ocated | at) | | | | | | |
| Utility Attachme | ents | | | | Otti | illes (L | -ocateu | at) | | | | | | |
| Telephone | | d in Sout | th ditch. | | | | Gas | | | | | | | |
| Power | | | ss road 400m | Fast. | | | Municip | nal | | | | | | |
| Others | | | | | | | Probler | | No | | | | | |
| Remarks | | | | | | | 1. 102.01 | (.,, | | | | | | |
| rtomanto | | | | Appr | oac | h Road | d / Emba | ankment | | | | | | |
| | | | | | st | Now | | ation of | | tion | | | | |
| Horizontal Align | nment | | | | 7 | 7 | · · | | | st. No passing E | B. Blind crest o | curve 100m to | | |
| Vertical Alignme | | | | | 5 | 5 | East. | | | | | | | |
| Roadway Width | | | 9.300 | | | ' | | | | | | | | |
| Embankment | | | | 7 | N | Snow o | overed, l | but no s | signs of probler | ns. | | | | |
| | Sideslope (:1) 3.0 | | | | | | | , | | 3 - 7 | | | | |
| | · · | 1.4) | | | | | 1 | | | | | | | |
| (Height of Cover(m) : 1.4) Guardrail (Y/N) Yes | | | | | | | | | | | | | | |
| Approach Roa | d / Emb | oankmen | it General Rat | ing | 5 | 5 | | | | | | | | |
| | | | | - | | linetro | am End | | | | | | | |
| Culvert Compo | nent | | | La | | Now | | ation of | Condi | tion | | | | |
| Direction | JIIGIIL | | | N | .JL | 14044 | LAPIAN | 411011 01 | Jonal | | | | | |
| End Treatment Others, None) | (Concre | ete, Steel | , NONE | IV | | | - | | | | | | | |
| Headwall | | | X | Х | | | | | | | | | | |
| Collar | | | | X | X | | | | | | | | | |

| | | | Unctro | om End |
|--|----------------------|------|-------------|--|
| Culvert Component | | Last | Now | am End Explanation of Condition |
| Wingwalls | | X | X | Explanation of Condition |
| (Shape:) | | | | |
| Cutoff Wall | | | X | |
| Catell Wall | | | | |
| Bevel End | | | X | Squared end. |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 100 | | | |
| Scour Protection | | 6 | N | Snow covered. |
| (Type : NATURAL) | | | | |
| (Avg. Rock Size(mm):) | | 1 | | |
| Scour/Erosion | | 6 | N | Snow covered. |
| Beavers (Y/N) No | | | | |
| Upstream End General Rating | | 6 | N | GR was 6 from 06Jun2011. |
| | | Rri | dae Cu | lvert Barrel |
| Culvert Component | | | | Explanation of Condition |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN. Spa | | | |
| Barrel Last Accessible Date | 06-Jun-2011 | | ·,· · · - · | Fencing & snow at ends of pipe prevents entry. |
| Dairor East / toossolbio Dato | 00 0411 2011 | | | to one in at one of pipe provente only. |
| Special Features | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Special Feature | | | | |
| (Type:) | | | _ | |
| Roof | I | 2 | 2 | Not measured due to dirt on floor. |
| Measured Rise (mm) | | | | Large hole in roof @ S end, exposed, from mower damage. Damage outside of roadway. |
| Measured At Ring No. | | | | |
| Sag (mm) | 0 | | | |
| Percent Sag | | | | |
| Sidewall | 1 | 7 | N | (1655 @ R1. 06Jun2011). |
| Measured Span (mm) | 1720 | | | |
| Measured At Ring No. | | | | (At mid span. 06Jun2011). |
| Deflection (mm) | | | | (-4mm. 06Jun2011). |
| Percent Deflection | 0 | | | |
| Floor | | N | N | Partially covered with dirt over concrete floor. |
| Bulge (mm) | | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | | | | |
| Circumferential Seams | 40 | 2 | 2 | Circumferential seam torn @ S end roof where torn by mower. Damage outside of roadway. |
| Separation (mm) | 40 | | | |
| Longitudinal Seams | | X | X | |
| Total No. of Cracked Rings | | | | |
| Total No. of Rings with Two Cracked Seams | | | | |
| Min. Remaining Steel Between Cracks (mm) | | | | |
| Proper Lap (Y/N) | | | | |
| Longitudinal Stagger (Y/N) | | | | |
| Coating | | 7 | 7 | |
| Corrosion By Soil (Y/N) | No | | | |
| Corrosion By Water (Y/N) Yes | | | | |

| | | Brid | dge Cu | lvert Barrel | | | | | |
|---|----------------------|-------|---------|--|--|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | | |
| (Pipe #: 1, Primary Span, Loca | tion Code: MAIN, Spa | n (mm |): 1724 | , Rise (mm): 1901, Type: MPE) | | | | | |
| Camber POS/ZERO/NEG | ZERO | | | | | | | | |
| Ponding (Y/N) | No | | | | | | | | |
| Fish Passage Adequacy | | Х | Х | | | | | | |
| Baffle | | Х | Х | | | | | | |
| (Type:) | | | | | | | | | |
| Waterway Adequacy | | Х | X | | | | | | |
| Icing (Y/N) | No | | | | | | | | |
| Silting (Y/N) | No | | | | | | | | |
| Drift (Y/N) | No | | | | | | | | |
| Barrel General Rating | | 4 | 4 | G.R. rating increased by 2 pts as damage to roof not in structural zone. | | | | | |
| | | D | ownstr | eam End | | | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | | | |
| Direction | | S | | | | | | | |
| End Treatment (Concrete, Steel, Others, None) | NONE | | | | | | | | |
| Headwall | | Х | Х | | | | | | |
| Collar | | Х | Х | | | | | | |
| Wingwalls | | Х | Х | | | | | | |
| (Shape:) | | | 1 | | | | | | |
| Cutoff Wall | | Х | X | | | | | | |
| Bevel End | | X | X | Squared end. | | | | | |
| Heaving (mm) | 0 | | | | | | | | |
| Invert Above/Below Stream Bed | BELOW | | | | | | | | |
| Above/Below (mm) | 100 | | | | | | | | |
| Scour Protection | | 6 | N | Snow covered. | | | | | |
| (Type : NATURAL) | | | | | | | | | |
| (Avg. Rock Size(mm):) | | | 1 | | | | | | |
| Scour/Erosion | | 6 | N | Snow covered. | | | | | |
| Beavers (Y/N) | No | | | | | | | | |
| Downstream End General Ratio | ng | 6 | N | GR was 6 from 06Jun2011. | | | | | |
| | | S | | re Usage | | | | | |
| | | Last | Now | Explanation of Condition | | | | | |
| Grade Separation | | | 1 | | | | | | |
| Road Alignment | | 7 | 7 | | | | | | |
| Roadway Surface | | 7 | 7 | | | | | | |
| (Type:) | | | | | | | | | |
| Icing (Y/N) | No | | | | | | | | |
| Traffic Safety Features | | Х | X | | | | | | |
| Туре | | | | | | | | | |
| Lighting | | Х | X | | | | | | |
| Barrel Leakage (Y/N) | No | | | | | | | | |

| Structure Usage | | | | | | | | |
|---------------------------------|--|------|-----|--------------------------|--|--|--|--|
| | | Last | Now | Explanation of Condition | | | | |
| Drainage | | 6 | 6 | | | | | |
| Structure In Use (Y/N) No | | | | Fenced off at both ends. | | | | |
| Grade Separation General Rating | | | 6 | | | | | |

| | | Maintenanc | e Recommendations | | | | | | |
|---|------------------|---|--------------------------------|-----------------------------|-----------------|----------------|----------------|-----------|----|
| Inspector Recommendations | Year | Inspector Comments | Depart | ment Comm | Target Year | Est. Cost | Cat # | | |
| SHOTCRETE REPAIRS | | | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | | | |
| INSTALL CONCRETE/STEEL LINING | i | | | | | | | | |
| INSTALL STRUTS | | | | | | | | | |
| INSTALL CONCRETE COLLAR/CUT | OFF | | | | | | | | |
| REPAIR SEAMS | | | | | | | | | |
| OTHER ACTION | | | | | | | | | |
| OTHER ACTION | | | | | | | | | |
| OTHER ACTION | | | | | | | | | |
| OTHER ACTION | | | | | | | | | |
| Structural Condition Rating (Last/N (%) | ow) 44.4/44 | 4 Sufficiency Rating (L (%) | ast/Now) 65.6/63.7 | 7 | Est. Repl. Yr | 2029 Maint. Re | | qd. (Y/N) | No |
| Special Comments for Next Inspection Plate has been pus Pipe has been rem LRA sent to Donald | oved from servic | directed by AT; no further action i e. b2013. | is required. Departing Common | | | | | | |
| Maintenance Reviewed By | | | Date | | | E | Estimated Tota | I 0 | |
| Proposed Long-Term Strategy | | | | | | | | | |
| On 3-Year Program (Y/N) | Υ | | | | | | | | |
| Proposed Action | | ve signed cattle pass removal forr | n, may remove when ap | propriate. B | rownlee & Assoc | iates | | | |
| Previous Inspector's Name | Jason Saly | Previous Assistant | Assistant's Name | | | | | | |
| Next Inspection Date | 22-Oct-2014 | | Previous Inspection | Inspection Date 06-Jun-2011 | | | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | | | |
| Comment | | | | | | | | | |