| Bridge Culvert Inspection | | | | | | | | | | | | | | |
|---|--------|-------------------|-----------------|-----------|----------------|-----------|---------------------|--------------------------|-------|---------------|-----------------------|-------|--|--|
| Bridge File Number 06748 -1 | | -1 Bridge Culvert | | | | Form Type | | | CUL1 | | | | | |
| Year Built | | 1992 | | | | | Lot No | | | 4 | | | | |
| Bridge or Town | Name | MANYB | BERRIES | | | | Inspec | tor Name | | Jon Davies | | | | |
| Located Over | | MAHER | COULEE, 11. | 1.1.5, WA | TERC | RS-ST | Inspec | tor Class | | BR CLS B | | | | |
| Located On | | 889:02 | C1 4.934 | | | | Assista | int Name | | | | | | |
| Water Body Cl./Year | | | | | | Assista | int Class | | | | | | | |
| Navigabil. Cl./Y | 'ear | | | | | | Inspec | tion Date | | 24-Jun-2012 | | | | |
| Legal Land Loc | ation | SW SE | C 6 TWP 6 RG | E 5 W4M | | | Data E | ntry By | | Lauren Korte | | | | |
| Longitude, Latit | tude | -110:40 | :43, 49:26:22 | | | | Data E | ntry Date | | 26-Jul-2012 | | | | |
| Road Authority | | Alberta | Transportation | (AIT) | | | Reviewer Name | | | Garry Roberts | | | | |
| · | | CMA24 | | | Review Date | | | 09-Jul-2012 | | | | | | |
| Clear Roadway | //Skew | 8.5 / | | | | | Dept. Reviewer Name | | | Tim Davies | | | | |
| AADT/Year | | 100 / 20 | | | | | | Dept. Review Date | | 30-Jul-2012 | | | | |
| Road Classifica | ation | RCU-20 | 08-110 | | | | Follow-Up By | | | | | | | |
| Detour Length | (km) | 7 | | | | | | | | | | | | |
| Bridge Culvert Information | | | | | | | | | | | | | | |
| Number of Culverts 1 | | | | | | | | | | | | | | |
| Pipe # | Barrel | | Span | Rise (or | (or Dia.) Type | | | Length | | Corr. Profile | Pl./Slab Thickness | Shape | | |
| 1 | MAIN | | - | 1600 | MP | | | 54 | | 125X26 | 2.8 | ROUND | | |
| Special Feature | es | | | | | | | | | | | | | |
| Special Features Comment | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Utilities (Located at) | | | | | | | | | | | | | | |
| Utility Attachments Telephone West ROW. | | | | | | | Gas | Gas Crossing 100m South. | | | | | | |
| | | | | | | | | Municipal | | | | | | |
| | | | | | | | Problem (Y/N) No | | | | | | | |
| Others Fibre optic cable East F | | | DIE LAST IVOVV. | | | | I IUDIG | 11 (1/14) | INO | | | | | |
| Remarks Approach Road / Embankment | | | | | | | | | | | | | | |
| Last Now Explanation of Condition | | | | | | | | | | | | | | |
| Horizontal Alignment | | | | | 9 | 9 | | | | | | | | |
| Vertical Alignment | | | | 7 | 7 | | | | | | | | | |
| Roadway Width | | | 8.500 | | | | | | | | | | | |
| Embankment | | | | | 7 | 7 | | | | | | | | |
| Sideslope (| :1) | | 4.0 | | | _ | | | | | | | | |
| (Height of Cover(m) : 4) | | | | | | | | | | | | | | |
| Guardrail (Y/N) | | | No | | | | | | | | | | | |
| Approach Road / Embankment General Rating | | | ing | 7 | 7 | | | | | | | | | |
| | | | | | | Upstre | am End | | | | | | | |
| Culvert Compo | onent | | | | Last | | | ation of | Condi | tion | | | | |
| Direction | | | | | | East. | | | | | | | | |
| End Treatment (Concrete, Steel, Others, None) | | I, STEEL | | | | | | | | | | | | |
| Headwall | | | | Х | Х | | | | | | | | | |
| Collar | | | | | Х | Х | | | | | | | | |
| Wingwalls | | | X X | | | | | | | | | | | |
| (Shape:) | | | | | | | | | | | | | | |
| Cutoff Wall | | | | | Х | X | | | | | | | | |
| | | | | | | | 1 | | | | | | | |

06748 -1 Bridge Culvert

| | | | Unctre | oom End | | | | |
|--|------------------|-----------|--------|----------------------------------|--|--|--|--|
| Culvert Company | | | Now | eam End Explanation of Condition | | | | |
| Culvert Component | | Last 8 | | Explanation of Condition | | | | |
| Bevel End | 0 | 0 | 7 | - | | | | |
| Heaving (mm) Invert Above/Below Stream Bed | 0 | | | | | | | |
| | BELOW | | | _ | | | | |
| Above/Below (mm) | 300 | | T _ | | | | | |
| Scour Protection | | 8 | 7 | | | | | |
| (Type : RIP RAP) | | | | _ | | | | |
| (Avg. Rock Size(mm) : 250) | | | 1 | | | | | |
| Scour/Erosion | | 8 | 7 | | | | | |
| Beavers (Y/N) | No | | | | | | | |
| | | | | | | | | |
| Upstream End General Rating | | 8 | 7 | | | | | |
| | | · | l O | | | | | |
| Culvert Commenced | | | | Ilvert Barrel | | | | |
| Culvert Component | tion Code: MAIN. | | | | | | | |
| Pipe # : 1, Primary Span, Locat | | ppan (mm | 1): | , Rise (mm): 1600, Type: MP) | | | | |
| Barrel Last Accessible Date | 24-Jun-2012 | | | | | | | |
| Special Features | | | | | | | | |
| Special Feature | | | | | | | | |
| (Type:) | | | | - | | | | |
| Special Feature | | | | | | | | |
| (Type:) | | | | | | | | |
| Roof | | 8 | 8 | | | | | |
| | 4500 | 0 | 0 | - | | | | |
| Measured Rise (mm) | 1590 | | | _ | | | | |
| Measured At Ring No. | | | | _ | | | | |
| Sag (mm) 10 | | | | _ | | | | |
| Percent Sag | 1 | | Ι. | | | | | |
| Sidewall | I | 8 | 8 | | | | | |
| Measured Span (mm) | 1620 | | | | | | | |
| Measured At Ring No. | 2 | | | _ | | | | |
| Deflection (mm) | 20 | | | _ | | | | |
| Percent Deflection | 1 | | | | | | | |
| Floor | | 8 | 7 | | | | | |
| Bulge (mm) | 100 | | | | | | | |
| Measured At Ring No. | 2 | | | | | | | |
| Abrasion (Y/N) | No | | | | | | | |
| Circumferential Seams | | 7 | 7 | | | | | |
| Separation (mm) | 30 | | | | | | | |
| Longitudinal Seams | | Х | X | | | | | |
| Total No. of Cracked Rings | 0 | | | | | | | |
| Total No. of Rings with Two Cracked Seams | 0 | | | | | | | |
| Min. Remaining Steel Between Cracks (mm) | 0 | | | | | | | |
| Proper Lap (Y/N) | | | | | | | | |
| Longitudinal Stagger (Y/N) | | | | | | | | |
| Coating | | 7 | 7 | | | | | |
| Corrosion By Soil (Y/N) | No | | | | | | | |
| Corrosion By Water (Y/N) | No | | | | | | | |
| Camber POS/ZERO/NEG | ZERO | | | | | | | |
| | | | | | | | | |
| Ponding (Y/N) | No | | | | | | | |

| Culvert Component | | | Brid | dge Cu | e Culvert Barrel | | | | | | | |
|---|---|----------------------|-------|----------------|------------------------------|--|--|--|--|--|--|--|
| Fish Passage Adequacy | - | | Last | Now | Explanation of Condition | | | | | | | |
| Materiary Adequacy | (Pipe # : 1, Primary Span, Locat | tion Code: MAIN, Spa | n (mm |): | , Rise (mm): 1600, Type: MP) | | | | | | | |
| Type : Waterway Adequacy | Fish Passage Adequacy | | 5 | 5 | | | | | | | | |
| Waterway Adequacy 7 7 7 7 1 | Baffle | | Х | Х | | | | | | | | |
| Silling (Y/N) | | | | | | | | | | | | |
| Silling (Y/N) | Waterway Adequacy | | 7 | 7 | | | | | | | | |
| Silting (Y/N) | | No | | | | | | | | | | |
| Drift (Y/N) | | No | | | | | | | | | | |
| Barrel General Rating | | | | | | | | | | | | |
| Culvert Component | | | 8 | 8 | | | | | | | | |
| Culvert Component Last Now Explanation of Condition Direction STEEL West. Ead Treatment (Concrete, Steel, Others, None) STEEL X X Collar X X X Collar X X X Wingwalls X X X (Shape:) Cutoff Wall X X Bevel End S X X Heaving (mm) 0 SELOW SELOW Above/Below Stream Bed BELOW SELOW SELOW Above/Below (mm) 200 SELOW SELOW (Ay, Rock Size(mm): 200 SELOW SELOW Scour/Frosion 8 7 Fermionic Security Beavers (Y/N) No No SELOW Explanation of Condition Channel (U/S and D/S) SELOW | 3 | | | | | | | | | | | |
| Direction STEEL | | | | | | | | | | | | |
| End Treatment (Concrete, Steel, Others, None) STEEL | | | Last | Now | | | | | | | | |
| Others, None) Headwall X | | | | | West. | | | | | | | |
| Variable Variable | End Treatment (Concrete, Steel, Others, None) | STEEL | | | | | | | | | | |
| Vingwalls | Headwall | | X | Х | | | | | | | | |
| Cutoff Wall | Collar | | Х | X | | | | | | | | |
| Cutoff Wall X X Bevel End 8 7 Heaving (mm) 0 Invert Above/Below Stream Bed BELOW Above/Below (mm) 200 Scour/Protection 8 7 (Type : RIP RAP) (Avg. Rock Size(mm) : 200) Scour/Erosion 8 7 Scour/Erosion 8 7 Structure Usage Last Now Explanation of Condition Channel (U/S and D/S) 7 7 Alignment 7 7 Bank Stability 8 8 Shallow channel. HWM (m below Top of Culvert) 1.5 No HWM visible. Drift (Y/N) No NoNE Degrading/Aggrading Beavers (YN) No Beavers (YN) No (Fish Compensation Measure 1 : NONE) | Wingwalls | | Х | Х | | | | | | | | |
| Bevel End | (Shape:) | | | | | | | | | | | |
| Heaving (mm) 0 | Cutoff Wall | | Х | X | | | | | | | | |
| Invert Above/Below Stream Bed | Bevel End | | | 7 | | | | | | | | |
| Above/Below (mm) 200 | Heaving (mm) 0 | | | | | | | | | | | |
| Scour Protection | | | | | | | | | | | | |
| (Type : RIP RAP) (Avg. Rock Size(mm) : 200) 8 7 Scour/Erosion 8 7 Beavers (Y/N) No Structure Usage Last Now Explanation of Condition Channel (U/S and D/S) Alignment 7 7 Bank Stability 8 8 Shallow channel. HWM (m below Top of Culvert) 1.5 No HWM visible. Drift (Y/N) No No Channel Bottom Degrading/Aggrading NONE NONE Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE) | | | | | | | | | | | | |
| CAUG. Rock Size(mm) : 200 Scour/Erosion | | | | 7 | | | | | | | | |
| Scour/Erosion 8 7 | (Type: RIP RAP) | | | | | | | | | | | |
| Beavers (Y/N) | (Avg. Rock Size(mm) : 200) | | | | | | | | | | | |
| Downstream End General Rating Structure Usage Last Now Explanation of Condition Channel (U/S and D/S) Alignment 7 7 Bank Stability 8 8 8 Shallow channel. HWM (m below Top of Culvert) 1.5 No HWM visible. Drift (Y/N) No Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 2 : NONE) | Scour/Erosion | | 8 | 7 | | | | | | | | |
| Structure Usage Last Now Explanation of Condition Channel (U/S and D/S) Alignment 7 7 Bank Stability 8 8 Shallow channel. HWM (m below Top of Culvert) 1.5 No HWM visible. Drift (Y/N) No Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE) | Beavers (Y/N) | No | | | | | | | | | | |
| Last Now Explanation of Condition | Downstream End General Ratio | ng | 8 | 7 | | | | | | | | |
| Last Now Explanation of Condition | | | S | tru <u>ctu</u> | re Usage | | | | | | | |
| Channel (U/S and D/S) Alignment 7 7 Bank Stability 8 8 Shallow channel. HWM (m below Top of Culvert) 1.5 No HWM visible. Drift (Y/N) No Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE) | | | | | | | | | | | | |
| Bank Stability 8 8 Shallow channel. HWM (m below Top of Culvert) 1.5 No HWM visible. Drift (Y/N) No Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE) | Channel (U/S and D/S) | | | | | | | | | | | |
| HWM (m below Top of Culvert) 1.5 Drift (Y/N) No Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE) | <u> </u> | | | 7 | | | | | | | | |
| Drift (Y/N) No Channel Bottom NONE Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE) | Bank Stability | | | 8 | Shallow channel. | | | | | | | |
| Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE) | HWM (m below Top of Culvert) 1.5 | | | | No HWM visible. | | | | | | | |
| Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE) | | | | | | | | | | | | |
| (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE) | | NONE | | | | | | | | | | |
| (Fish Compensation Measure 2 : NONE) | | | | | | | | | | | | |
| | (Fish Compensation Measure 1 : | NONE) | | | | | | | | | | |
| Channel General Rating 7 7 | (Fish Compensation Measure 2 : | NONE) | | | | | | | | | | |
| | Channel General Rating | | 7 | 7 | | | | | | | | |

| | | | Mai | ntenance Recomm | endations | | | | | |
|--|-----------|---------|----------------------|------------------|------------------------|---------------|------|----------------|-----------|-------|
| Inspector Recommendations | Yea | ar Ins | pector Comments | | Department Com | nments | | Target Year | Est. Cost | Cat # |
| SHOTCRETE REPAIRS | | | | | · | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | | | | |
| INSTALL CONCRETE/STEEL LINING | | | | | | | | | | |
| INSTALL STRUTS | | | | | | | | | | |
| INSTALL CONCRETE COLLAR/CUT | OFF | | | | | | | | | |
| REPAIR SEAMS | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| Structural Condition Rating (Last/N (%) | low) 88. | .9/88.9 | Sufficiency R (%) | ating (Last/Now) | 84.6/82.9 | Est. Repl. Yr | 2043 | Maint. Re | qd. (Y/N) | No |
| Special Comments for Next Inspection | | | | | Department Comments | | | | | |
| Maintenance Reviewed By | | | | | Date | | E | stimated Total | 1 0 | |
| Proposed Long-Term Strategy | | | | | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | | | | |
| Proposed Action | | | | | | | | | | |
| Previous Inspector's Name Gai | | erts | | Previo | ous Assistant's Name | | | | | |
| Next Inspection Date | 24-Sep-20 | 15 | | Previo | ous Inspection Date | 14-Jun-2009 | | | | |
| Inspection Cycle (Default) (months) 39 | | | | | | | | | | |
| Comment | | | | | | | | | | |