| | | | | | Bridg | e Culve | ert Insp | ection | | | | | | | |
|---------------------------------------------------------|---------|----------------------|------------------------------------------|----------|--------------------------------------|------------------------------------------------------|--------------------------|-----------------------------|--------------|---------------|-----------------------|-------|--|--|--|
| Bridge File Nur | nber | 71462 | -1 Bridge Culve | rt | J | | Form 1 | Гуре | | CUL1 | | | | | |
| Year Built 1961 | | | | | | | Lot No. | | | 1 | | | | | |
| Bridge or Town Name TAYLORVILLE | | | | | | | Inspec | tor Name | | Jason Rusu | | | | | |
| Located Over | | TRIBU 2.12.20 | ARY TO ROLPH CREEK, 10.5, WATERCRS-ST | | | | · · | Inspector Class BR CLS A | | | | | | | |
| Located On | | | C1 20.265 | | | | | Assistant Name | | | | | | | |
| Water Body Cl. | /Year | | | 20.200 | | | | Assistant Class | | | | | | | |
| Navigabil. Cl./Year | | | | | | - | tion Date | | 09-Jun-2012 | | | | | | |
| Legal Land Location SW SEC 14 TWP 1 RGE 24 W4 | | | | М. | | | intry By | | Erin Roberts | | | | | | |
| Longitude, Latitude -113:07:06, | | | 7:06, 49:01:42 | | | | | Data Entry Date 19-Jul-2012 | | | | | | | |
| Road Authority Alberta Tra | | Transportation (AIT) | | | | Reviewer Name Garry Roberts Review Date 10-Jul-2012 | | | | | | | | | |
| Road Authority Alberta Tra Contract Main. Area CMA25 | | | | | | | | 10-Jul-2012 | | | | | | | |
| Clear Roadway/Skew 10 / | | | | | | | Reviewer N Review Dat | | | | | | | | |
| Clear Roadway/Skew 10 / AADT/Year 280 / 2011 | | 011 (A) | I1 (A) | | | | | ıe | 30-301-2012 | | | | | | |
| Road Classification RCU-2 | | RCU-2 | 209-110 | | | | Follow-Up By | | | | | | | | |
| Detour Length | (km) | 5 | | | | | | | | | | | | | |
| Bridge Culvert | Inform | nation | | | | | | | | | | | | | |
| Number of Culv | /erts | | 1 | | | | | | | | | | | | |
| Pipe # | Barrel | | Span | Rise (or | Dia.) | Туре | | Length | | Corr. Profile | PI./Slab Thickness | Shape | | | |
| 1 | MAIN | | - | 1500 | | MP | | 25.2 | | 68X13 | 3.5,3.5,3.5 | ROUND | | | |
| Special Feature | es | | | | | | | | | | | | | | |
| Special Feature | es Com | ment | | | | | | | | | | | | | |
| | | | | | Uti | lities (L | ocated | at) | | | | | | | |
| Utility Attachme | ents | | | | | | | | | | | | | | |
| Telephone | | | | | | | Gas | | | | | | | | |
| Power | | | | | | | Munici | pal | | | | | | | |
| Others | | | | | | | Proble | m (Y/N) | | | | | | | |
| Remarks | None | visible. | | Λ. | an 1 a a a | h Door | d / Emph | ankment | | | | | | | |
| | | | | Aļ | Last | Now | | nation of C | ondi | tion | | | | | |
| Horizontal Aligr | nment | | | | 9 | 9 | =xpia: | | on a | | | | | | |
| Vertical Alignm | | | | | 8 | 8 | | | | | | | | | |
| Roadway Width | | | 8.000 | | | | | | | | | | | | |
| Embankment | | | 4 4 | | 0.5 x 1.0 hole over pipe North side. | | | | | | | | | | |
| Embankment Sideslope (:1) | | 4.0 | | | | | | | | | | | | | |
| (Height of Co | | 1.3) | | | | | - | | | | | | | | |
| Guardrail (Y/N) | | | No | | | | | | | | | | | | |
| Approach Roa | d / Eml | bankme | ent General Rat | ing | 8 | 8 | | | | | | | | | |
| | | | | | | Upstre | l am End | | | | | | | | |
| Culvert Compo | onent | | | | Last | Now | | nation of C | ondi | tion | | | | | |
| Direction | | | | | S | 111011 | South | | | | | | | | |
| End Treatment Others, None) | (Concr | ete, Stee | el, STEEL | | | | | | | | | | | | |
| Headwall | | | | | Х | Х | | | | | | | | | |
| Collar | | | | | Х | Х | | | | | | | | | |
| Wingwalls | | | | | Х | Х | | | | | | | | | |
| (Shape:) | | | | | | | | | | | | | | | |
| Cutoff Wall | | | | | Х | X | | | | | | | | | |

71462 -1 Bridge Culvert

| | | | Upstre | am End |
|-------------------------------------|---------------------------------------|----------|--------|---------------------------------------------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| Bevel End | | 3 | 3 | Bevel floor is ripped 0.5 m |
| Heaving (mm) | 120 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 200 | | | |
| Scour Protection | , | 3 | 3 | SCOUR HOLE STARTING UNDER INVERT and both SIDES |
| (Type : RIP RAP) | | ' | _ | |
| (Avg. Rock Size(mm) : 300) | | | | |
| Scour/Erosion | | 3 | 3 | |
| | 1 | | | |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | 3 | 3 | |
| ор | | | | |
| Culvert Commonant | | | | Ivert Barrel |
| Culvert Component | tion Code: MAIN! | | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Loca | | opan (mm | ı): | , Rise (mm): 1500, Type: MP) |
| Barrel Last Accessible Date | 09-Jun-2012 | | | |
| Special Features | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Roof | | 4 | 4 | Less than 10% sag. |
| Measured Rise (mm) | 1361 | | _ | |
| Measured At Ring No. | 2 | | | |
| Sag (mm) | 139 | | | |
| Percent Sag | 9 | | | |
| Sidewall | | 3 | 3 | Greater than 10% deflection. |
| Measured Span (mm) | 1697 | | | |
| Measured At Ring No. | 2 | | | |
| Deflection (mm) | 197 | | | |
| Percent Deflection | 13 | | | |
| Floor | | 4 | 4 | RUSTING |
| Bulge (mm) | 0 | | | SOME PITTED RUST - NO PERFORATIONS |
| Measured At Ring No. | | | | - |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | 3 | 3 | 2ND FROM U/S WATER GETTING IN BEHIND COUPLER & PIPE, |
| Separation (mm) | 100 | 3 | J | SEPERATION 100 x 40 CAVITY ALONG PIPE. |
| Longitudinal Seams | .00 | 5 | 5 | Rivetted |
| Total No. of Cracked Rings | 0 | 3 | J | Trivolled |
| Total No. of Rings with Two | 0 | | | |
| Cracked Seams Min. Remaining Steel | | | | |
| Between Cracks (mm) | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | |
| Proper Lap (Y/N) | Yes | | | - |
| Longitudinal Stagger (Y/N) | Yes | | | |
| Coating | | 4 | 4 | SOIL AND WATER CORROSION and moderate pitting to mid sidewall |
| Corrosion By Soil (Y/N) | No | | | - Sidowall |
| Corrosion By Water (Y/N) | Yes | | | |
| Camber POS/ZERO/NEG | ZERO | | | |
| Ponding (Y/N) | Yes | | | |

| | | Brid | dge Cu | Ivert Barrel | | | | | |
|-----------------------------------------------|----------------------|--------|--------|----------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | | |
| (Pipe #: 1, Primary Span, Locat | tion Code: MAIN, Spa | ın (mm |): | , Rise (mm): 1500, Type: MP) | | | | | |
| Fish Passage Adequacy | | 5 | 5 | | | | | | |
| Baffle | | Х | Х | | | | | | |
| (Type:) | | | | | | | | | |
| Waterway Adequacy | | 5 | 5 | ((WATER OVER HIGHWAY IN 1986/SCOUR D/S 02/07/03)) | | | | | |
| Icing (Y/N) | No | | | | | | | | |
| Silting (Y/N) | No | | | | | | | | |
| Drift (Y/N) | No | | | | | | | | |
| Barrel General Rating | | 3 | 3 | | | | | | |
| | | D | ownsti | ream End | | | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | | | |
| Direction | | N | | North. | | | | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | | | | | | |
| Headwall | | X | X | | | | | | |
| Collar | | Х | Х | | | | | | |
| Wingwalls | | Х | Х | | | | | | |
| (Shape:) | | 1 | 1 | | | | | | |
| Cutoff Wall | | X | X | | | | | | |
| Bevel End | | 5 | 5 | | | | | | |
| Heaving (mm) | 0 | | | | | | | | |
| Invert Above/Below Stream Bed | BELOW | | | | | | | | |
| Above/Below (mm) | 600 | | | | | | | | |
| Scour Protection | | 3 | 3 | Scour hole does not affect bevel - used as cattle water hole. Erosion along top of pipe going in 0.6m - 16mx8mx1.2m | | | | | |
| (Type : RIP RAP) | | | | - | | | | | |
| (Avg. Rock Size(mm) : 300) | | | | | | | | | |
| Scour/Erosion | | 3 | 3 | (SCOUR 10M x 8M) | | | | | |
| Beavers (Y/N) No | | | | | | | | | |
| Downstream End General Ratio | ng | 3 | 3 | | | | | | |
| | | S | tructu | re Usage | | | | | |
| | | Last | Now | Explanation of Condition | | | | | |
| Channel (U/S and D/S) | | | | | | | | | |
| Alignment | | 6 | 6 | Curves 600 u/s | | | | | |
| Bank Stability | | | 7 | | | | | | |
| HWM (m below Top of Culvert) | | | | No visible HWM | | | | | |
| Drift (Y/N) No | | | | | | | | | |
| Channel Bottom Degrading/Aggrading DEGRADING | | | | | | | | | |
| Beavers (Y/N) No | | | | | | | | | |
| (Fish Compensation Measure 1 : | NONE) | | | | | | | | |
| (Fish Compensation Measure 2 : NONE) | | | 1 | | | | | | |
| Channel General Rating | | 6 | 6 | | | | | | |

| | | Maintenance Ro | ecommendations | | | | | |
|--------------------------------------------|---------------|-----------------------------------------------------|---------------------------|------------------|-------------|---------------|-----------|-----|
| Inspector Recommendations | Year | Inspector Comments | Department Comr | nents | Target Year | Est. Cost | Cat # | |
| SHOTCRETE REPAIRS | | <u> </u> | | | | | | |
| PLACE ADDITIONAL RIP RAP | 2012 | 10 m³ Cl. 1 at U/S | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | | |
| INSTALL CONCRETE/STEEL LINING | | | | | | | | |
| INSTALL STRUTS | | | | | | | | |
| INSTALL CONCRETE COLLAR/CUTO | FF | | | | | | | |
| REPAIR SEAMS | | | | | | | | |
| OTHER ACTION | | | | | | | | |
| OTHER ACTION | | | | | | | | |
| OTHER ACTION | 2012 | Repair erosion at top and sides of D Seal coupler. | 0/S bevel. | | | | | |
| OTHER ACTION | 2012 | Use spray foam in the opening of the second coupler | e seams @ | | | | | |
| Structural Condition Rating (Last/No (%) | w) 33.3/33 | .3 Sufficiency Rating (Last/ | (Now) 42.8/42.9 | Est. Repl. Yr | 2020 | Maint. Re | qd. (Y/N) | Yes |
| Special Comments for Next Inspection | | | Department Comments | | | | | |
| Maintenance Reviewed By | | | Date | | E | stimated Tota | 1 0 | |
| Proposed Long-Term Strategy | | | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | | |
| Proposed Action | | | | | | | | |
| Previous Inspector's Name | Garry Roberts | | Previous Assistant's Name | Assistant's Name | | | | |
| Next Inspection Date | 09-Sep-2015 | | Previous Inspection Date | 17-Jun-2009 | | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | | |
| Comment | | | | | | | | |