| | | | Level 2 | 2 Inspectio | n - Concre | te Deck | | | | | | |
|-------------------------|------|-------------------------|----------|-----------------------------|---|---------|-------------|-------|---|--|--|--|
| Bridge File Number | 002 | 33 -1 Bridge | | | Form Type CDK | | | | | | | |
| Year Built/Year | 196 | 0/1960 | | | Lot No. | | | | | | | |
| Supstr | 1 | | | Inspector | Name | | Jason Saly | | | | | |
| Bridge or Town Name | | | | Inspector | Class | | BR CLS A | | | | | |
| Located Over | BAT | TTLE RIVER, 5, WATE | RCRS-S | ST | Assistant I | Name | | | | | | |
| Located On | 17:0 | 06 C1 1.701 | | Assistant (| Class | | | | | | | |
| Water Body Cl./Year | | | | Inspection | Date | | 27-Jun-2012 | | | | | |
| Navigabil. Cl./Year | | | | | | | Jason Saly | | | | | |
| Legal Land Location | SW | SEC 12 TWP 45 RGE | | Data Entry Date 26-Feb-2013 | | | | | | | | |
| Longitude, Latitude | -110 | 0:01:08, 52:51:24 | | | | | Paul Carter | | | | | |
| Road Authority | Albe | erta Transportation (Al | | Review Date | | | 27-Feb-2013 | | | | | |
| Contract Main. Area | UNI | DEFINED CMA | | | Dept. Reviewer Name Dept. Review Date Follow-Up By Visual Inspection? | | | | | | | |
| Clear Roadway/Skew | 8.5 | 1 | | | | | | | | | | |
| AADT/Year | 1,88 | 30 / 2012 (A) | | | | | | | | | | |
| Road Classification | RAI | J-211.8-110 | | | | | | Υ | | | | |
| Detour Length (km) | 15 | | | | CSE Testi | | | Y | | | | |
| | | | | | Chloride Testing? | | N | | | | | |
| Allowable Load (t): Sin | ngle | CS1 28 | Semi | CS2 49 | | Train | CS | 63 62 | > On Critical Spans >Critical Member | | | |
| Design Loading: | | HS20 | | | | | | | > Primary Span | | | |
| (Primary Span : PO. S | pans | s: 1,2,3, Lengths(m): 1 | 9.5-24.4 | I-19.5) | | | | | | | | |

(Primary Span : **PO**, **Spans: 1,2,3**, **Lengths(m): 19.5-24.4-19.5**)

| (TOTAL L | ongui . 13. | 5-24.4-19. | 0 – 00.4) | | | | | |
|-----------|--------------------|------------|-------------------|---|-----|------|------------|---------------------------------------|
| | | | | | | | | ck Inspection |
| | | | | | | Last | Now | Explanation of Condition |
| Wearing | Surface | | | | | | | |
| Polym | er? (Y/N) | | | Υ | | | | |
| ACP? | (Y/N) | | | N | | | | |
| Chip S | Seal Coat? | (Y/N) | | N | | | | |
| Polyme | r Rating (| % Area) | | | | | | |
| | 9-7 | 6/5 | 4 | 3 | 2/1 | 1 | 1/X | |
| Last | | | | | | | | |
| Now | 80 | 15 | 5 | 0 | 0 | | 0 | |
| ACP Ra | ting (% A | rea) | | | | | | |
| | 9-7 | 6/5 | 4 | 3 | 2/1 | 1 | N/X | |
| Last | | | | | | | | |
| Now | 0 | 0 | 0 | 0 | 0 | | 100 | |
| Chip Se | al Coat R | ating (% A | (rea) | | | | | |
| | 9-7 | 6/5 | 4 | 3 | 2/1 | 1 | 1/X | |
| Last | | 7 | | | | T. | | |
| Now | 0 | 0 | 0 | 0 | 0 | | 100 | |
| | | ebonded /l | | | | | 30 | There are random areas of lost epoxy. |
| | | nded /Lost | | | | | X | There are fandom areas or lost epoxy. |
| | | | | • | | | | - |
| | | easured D | |) | | | X | _ |
| | | uency (m/ı | | | | | X | _ |
| Chip S | Seal Coat | Total Lost | Area (m²) | | | | X | |

Concrete Overlay

Overlay? (Y/N)

(Span Type : PO)

(Span Numbers : 1, 2, 3)

(Overlay type : CONCRETE (HIGH DENSITY))

(Area(m²) : **538.9**) (Year Installed : **1982**) (Thickness(mm) : **50**)

| | | | | | | Concr | rete De | ck Inspection | | | | | | |
|-------------------------------------|----------------------|--------------|-------------|-------------|------------------|-------|---------|--|---|---|--|--|--|--|
| | | | | | | Last | Now | Explanation of Cond | ition | | | | | |
| • | ge Cylinde | | (Mpa) :) | | | | | | | | | | | |
| Overlay | Rating (% | | | | | | | | | | | | | |
| | 9-7 | 6/5 | 4 | 3 | 2/1 | N, | I/X | | | | | | | |
| Last | | | | | | | | | | | | | | |
| Now | 0 | 0 | 0 | 0 | 0 | | 100 | There is deterioration | The HDOL is mostly covered by polymere overlay protectio. There is deterioration along the deck joints. | | | | | |
| Total C | Crack Leng | th - Mediu | m/Wide (n | n) | | | N | | , | | | | | |
| Total S | Scaled Area | a - Light (n | n²) | | | | N | | | | | | | |
| Total S | Scaled Area | a -Modera | te/Heavy/S | Severe (m | i ²) | | N | | | | | | | |
| Debon | ded Area (| m²) | | | | | 0 | | | | | | | |
| Spalled | d Area (m²) |) | | | | | N | | | | | | | |
| Patche | ed Area (m² | 2) | | | | | N | | | | | | | |
| Averag | ge Measure | ed Cover [| Depth (mm | 1) | | | 128 | | | | | | | |
| Standa | ard Deviation | on of Meas | sured Cov | er Depth | (mm) | | 22 | | | | | | | |
| Deck | | | | | | | | | | | | | | |
| (Span Ty | ype : PO) | | | | | | | | | | | | | |
| | Numbers : | 1, 2, 3) | | | | | | | | | | | | |
| | Type : COI | | (CLASS C | ()) | | | | | | | | | | |
| | m²) : 538.9) | | (0211000 | , | | | | | | | | | | |
| | Constructe | • | | | | | | | | | | | | |
| | Widened :) | | | | | | | | | | | | | |
| ` | ness(mm) : | , | | | | | | | | | | | | |
| | ge Cylinde | | (MPa) ·) | | | | | | | | | | | |
| (/tvcia | ge Oyiii ae | Type | (WII a) .) | | | | | Size | Design Cover (mm) | Spacing (mm) | | | | |
| Long. Reinforcing REINFORCING STEEL | | | | | | | | 10 | 25 | 450 | | | | |
| | einforcing | | DRCING S | | | | | 20 | 25 | 225 | | | | |
| | p Rating (| | JKCING 3 | ILLL | | | | 20 | 20 | 223 | | | | |
| Deck 10 | 9-7 | 6/5 | 4 | 3 | 2/1 | N | I/X | _ | | | | | | |
| Last | 3-1 | 0/3 | 7 | 3 | 2/1 | 111/ | // | _ | | | | | | |
| Now | 0 | 0 | 0 | 0 | 0 | | 100 | - | | | | | | |
| | Crack Leng | | | | | | N | _ | | | | | | |
| | Scaled Area | | | ') | | | N | _ | | | | | | |
| | Scaled Area | | | Sovere (n | 02) | | N | | | | | | | |
| | | | ile/neavy/ | Severe (II | 14) | | | | | | | | | |
| | inated Area | () | | | | | N | | | | | | | |
| | d Area (m²) | | | | | | N | | | | | | | |
| | ed Area (m | • | 2 11 1 | ` | | | N | | | | | | | |
| | ge Measure | | • • | • | , , | | N | | | | | | | |
| | ard Deviation | | | er Depth (| (mm) | | N | - | | | | | | |
| Deck Un | derside R | | | | 0/4 | | 1/\/ | - | | | | | | |
| 1 | 9-7 | 6/5 | 4 | 3 | 2/1 | IN, | I/X | There is random patch the south abutment ha | ning in the deck unders ave cracks propagating | side. Exterior girders at g from the bearings. G4 | | | | |
| Last | 50 | | | | | | | on span 3 has a spall | along the east girder of | on the north span in the | | | | |
| Now | 50 | 50 | 0 | 0 | 0 | | 0 | anchorzone at P2 stiri | rups are exposed. Grid | ers would be rated '3' | | | | |
| | Stained Are | | | -> | | | 0 | _ | | | | | | |
| | Stained Are | | , | | | | 0 | _ | | | | | | |
| | Crack Leng | | | ስ) | | | 0 | _ | | | | | | |
| | ledium/Wic | le Cracks | Stained | | | | 0 | | | | | | | |
| Edge Ele | | | | | | | | | | | | | | |
| Curbs? | | | | Y | | | | | | | | | | |
| | ets? (Y/N) | | | N | | | | | | | | | | |
| | ns? (Y/N) | | | N | | | | | | | | | | |
| | alks? (Y/N) | | | N | | | | | | | | | | |
| Curbs | | | | | | | | | | | | | | |
| (Type: | : CONCRE | .TE) | | | | | | | | | | | | |

| | | | | | | Conci | rete Dec | k Inspection | | | | | | | | |
|-----------|--------------------|----------------|-------------|--------------|--|--------------|--|-----------------------------------|-------------------|-----------------|------------------|-----------------|--|--|--|--|
| | | | | | | Last | Now | Explanation of | of Condition | | | | | | | |
| (Total L | _ength(m): | 126.8) | | | | | | | | | | | | | | |
| (Height | t(mm) :) | | | | | | | | | | | | | | | |
| (Width(| (mm):) | | | | | | | | | | | | | | | |
| | ge Cylinder | Strength | n(MPa) : |) | | | | | | | | | | | | |
| | ement Type | | (/ | | | Size | | | Design Cover (r | nm) | Spacing (mm) | | | | | |
| | | | | | | 10 | | | 50 | , | 300 | | | | | |
| Curb Rat | ting (% Ler | nath) | | | | 10 | | | 00 | | 000 | | | | | |
| ours ru | | 6/5 | 4 | 3 | 2/1 | N | /X | | | | | | | | | |
| Last | | 0,0 | ' | | 2, 1 | 1,4 | | | | | | | | | | |
| Now | 0 | 60 | 30 | 10 | 0 | | 0 | The curbs are in poor condition. | | | | | | | | |
| | rack Length | | | | | | 93 | | | | | | | | | |
| | caled Lengt | | • | 111) | | 21 | | | | | | | | | | |
| | | | | n./Cooro | /m) | | | There is signif exposed reba | icant scaling and | d spalling wi | th several secti | ons of | | | | |
| | caled Leng | | erate/Hea | vy/Severe | (m) | | | exposed reba | l - | | | | | | | |
| | nated Leng | ` , | | | | | 6 | | | | | | | | | |
| | d Length (m | <i>'</i> | | | | | 8 | | | | | | | | | |
| | d Length (m | | | | | | 0 | | | | | | | | | |
| | e Measured | | - ' | | | | 51 | | | | | | | | | |
| Standa | rd Deviation | n of Mea | sured Cov | er Depth (| mm) | | 12 | | | | | | | | | |
| Deck Joi | ints | | | | | | | | | | | | | | | |
| (Type: A | RMOURED | GLAN | D (WABO | UNDER F | INGER | OR S | LIDING | PLATES)) | | | | | | | | |
| (Numbe | er of Joints | : 4) | | | | | | | | | | | | | | |
| (Expan | sion / Fixed | ? : EXP | ANSION) | | | | | | | | | | | | | |
| (Locatio | on : A1, A2 | , P1, P2 |) | | | | | | | | | | | | | |
| % Inspe | ected | | | | | | 100 Joints were inspected in the rain. Leakage was obsered at all join | | | | | | | | | |
| % Joint | ts Leaks | | | | | | except the south pier joint. Missing cover plate anchor bolts fr south pier and the north abutment plate have been welded to | | | | | | | | | |
| % Joint | t Length Lea | aks | | | | | 20 There is horizontal cracking in both abutments. Scalling on the n | | | | | | | | | |
| | tructure Da | | ating | | | | abutment seat. north backwall has spalling. piers have vertic cracks. North pier has heavy scaling and a delamination at t | | | | | | | | | |
| | ucture Dama | | | | | | northeast corner. | | | | | | | | | |
| | Joint Ratin | | <u>-</u> | | | | 3 | | | | | | | | | |
| 2010 | | 9 | | | | CSE Testing | | | | | | | | | | |
| Testing | Date | | | 05-Jul-201 | 2 | | | Previous Testing Date 11-May-2009 | | | | | | | | |
| | Informatio | n | | | | | | 1 | <u> </u> | | | | | | | |
| | rature (°C) | | | 17 | | | | | | | | | | | | |
| Condition | | | | Sunny | | | | | | | | | | | | |
| | ent Informa | tion | | Curiny | | | | | | | | | | | | |
| | quipment M | | Model | Coreyco C | DI - 2 | 00 FΔ/ | 512 | | | | | | | | | |
| | cal Ground I | | | | exco CDL - 200 EA/512 R, third span along the west curb. | | | | | | | | | | | |
| Type | ai Oroana i | Location | ana | TOIX, tillia | n, unid span along the west outb. | | | | | | | | | | | |
| Measure | ment Loca | tions In | formation | | | | | | | | | | | | | |
| Origin f | for Data | | | North Wes | est | | | | | | | | | | | |
| | | | | Number | | | | Length of Ea | ich (m) | Length | of Last (m) | | | | | |
| X Increr | ments (Leng | gth) | | 52 | | | | 1.219 | | 1.200 | | | | | | |
| | ments (Widt | | | 7 | | | | 1.219 | | 1.200 | | | | | | |
| CSE Res | | | | | | | | | | | | | | | | |
| | lumbers | | | 1,2,3 | | | | | | | | | | | | |
| Span T | | | | PO | | | | | | | | | | | | |
| | g Surface | | | CONCRET | E (HIC | GH DF | NSITY) | | | | | | | | | |
| Testing | % Deck Ar | ea % | Deck Area | | · · | 1 | ck Area | % Deck Area | Avg. Deck | Stnd. Dev. | Avg. Curb | Stnd. Dev. | | | | |
| | 0 to -0.1 V | | 0.1 to -0.2 | | -0.3 | | to -0.4 | < -0.4 V | Reading (V) | Deck Reading | Reading (V) | Curb Reading | | | | |
| Year | | V | | V | | | | | | | | | | | | |
| Year 2012 | 0.0 | 4.7 | , | 49.9 | | 29.4 | | 16.0 | -0.317 | 0.102 | -0.473 | 0.076 | | | | |
| | 0.0 | 1 | | - | | 29.4 26.0 | | 16.0 13.0 | -0.317 -0.300 | 0.102 -0.103 | -0.473 -0.472 | 0.076 | | | | |

| | CSE Testing |
|--|-------------|
| CSE Prediction Model Optimum 5 year Rehab Start Year | 2014 |
| Comments | |

| | | Maint | tenance Recor | nmendat | ions | | | | | |
|-------------------------------------|-----------------|-------------------------------|------------------|----------------------|-----------------------|----------------|--------------|------------------|--------------|--------|
| Inspector Recommendations | Year | Inspector Comments | | [| Department Comme | nts | | Target Year | Est. Cost | Cat # |
| SEAL CURBS | | | | | | | | | | |
| PATCH DECK | | | | | | | | | | |
| SEAL DECK | | | | | | | | | | |
| OVERLAY DECK | | | | | | | | | | |
| REPAIR/REPLACE DECK JOINTS | | | | | | | | | | |
| WASHING | | | | | | | | | | |
| CRACK REPAIRS/TREATMENT | | | | | | | | | | |
| PATCH CURBS/PARPETS | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| Structural Condition Rating (%) 38 | 8.9 | Sufficiency Rating | j (%) | 41.4 | Es | st Repl Year | | 2025 | ; | |
| Level 1 Insp Date 27-Jun-2 | 012 Next | _evel 1 Insp Date | 27- | -Mar-201 | 4 Current Leve | l 1 Insp Cycle | (Default) (M | onths) | 21 | |
| Special Comments for Next Insp | Repair girder a | t next major rehab & ensur | e jnts are water | tight. | | | | | | |
| Snooper? (Y/N) No Li | ift? (Y/N) | No Traffic | Control? (Y/N) | Yes | Boat? (Y/N) | No | La | adder? (Y/N) | No | |
| Other Special Requirements Comments | Converted from | n CDIS | | | | | | | | |
| Previous Level 2 Inspector's Name | Jason Saly | | Pre | evious Le | vel 2 Insp Date | 11-May-200 | 9 | | | |
| Next Level 2 Insp Date | 27-Jun-2016 | | Dis | scontinue | Level 2 Insp? (Y/N) | No | | | | |
| Level 2 Insp Previously Completed | 10 | | | vel 2 Insp onths) | Cycle (Default) | 48 | | | | |
| Detailed Report/Diagram? (Y/N) | Yes | | | | | | | | | |
| Level 2 Insp Comments | The fourth pan | el of bridgerail from the nor | th along the we | est curb. fi | ifth post from the no | rth along the | west crub wa | s cracked at the | ne base plat | e weld |
| Next Level 2 Inspection/Test | Concrete Deck | Insp? (Y/N) | Yes | CSE T | esting? (Y/N) | Yes | Chloride - | Testing? (Y/N) | No | |
| Department Reviewer Comments | | | | | | | | | | |