



## TOWN OF HUNTSVILLE BRIDGE INSPECTIONS

Inspection Report

Project # 17-4022-07

November 2018

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## 1. INTRODUCTION

Tulloch Engineering Inc. has been retained by the Town of Huntsville to undertake detailed visual inspections of the municipally owned bridges and structural culverts within their Municipal jurisdiction. In accordance with Ontario Regulation 104/97 – Standards for Bridges, the structural integrity, safety and condition of every bridge shall be determined through the performance of at least one inspection in every second calendar year under the direction of a professional engineer and in accordance with the Ontario Structure Inspection Manual (OSIM). O. Reg. 472/10, s. 2.

The goal of the structural inspections is to ensure that an acceptable standard is being maintained for each bridge in terms of public safety, comfort, and convenience. The objectives of the inspections are as follows:

- To identify critical maintenance, rehabilitation, and or replacement needs of the bridges;
- To protect and prolong the useful life of the bridges;
- To provide a basis for scheduling and funding of the maintenance, rehabilitation repairs, or replacement of the bridges;

This report contains completed OSIM inspection forms, relevant photographs, suggested repairs, and estimated costs for repairs at each site. The bridges inspected as part of this assignment are shown on the key map provided in Figure 1.0 below.

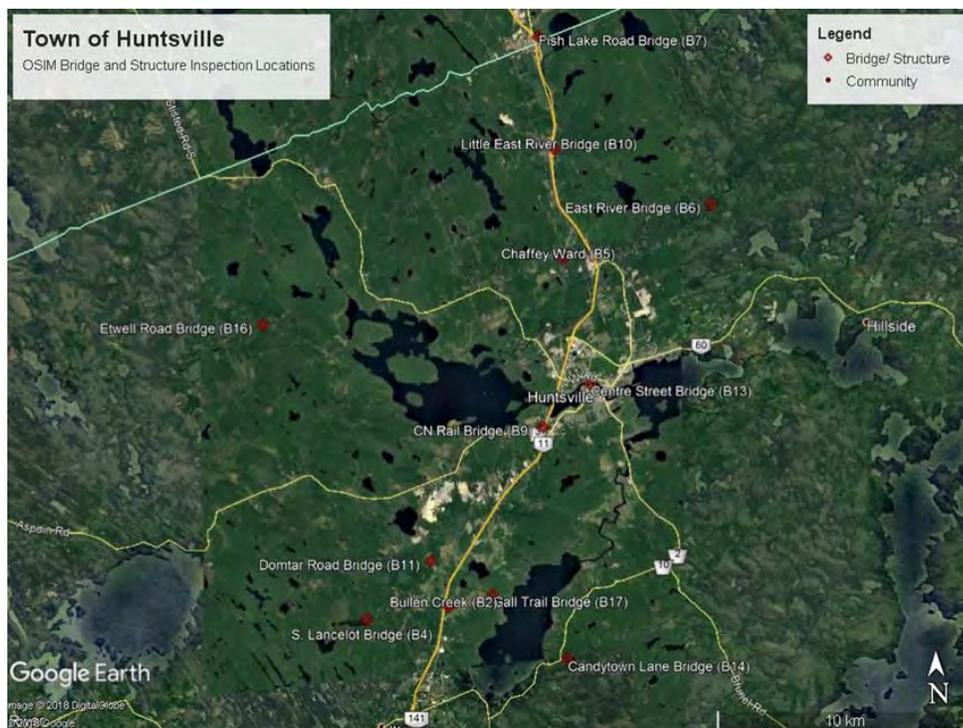


Figure 1: Bridge Locations

## 1.1 Inspection Procedures

Detailed visual inspections involve review of each primary structural element. The structural elements are identified by primary groupings and sub-groupings of each element. Material defects such as wood rot or concrete spalling were recorded and measured in the field, refer to Appendix A for a full glossary of terms for the material defects. The condition of each element is quantified and assessed with a rating of 'excellent', 'good', 'fair', or 'poor'. The condition ratings are quantified for either a portion of the total structural element, or the entirety of the structural element.

## 2. INSPECTION SUMMARY

The results of the detailed visual inspections are recorded using standard Ontario Structure Inspection Manual (OSIM) forms. The forms provide a report of existing data and conditions at the time of the inspection for each bridge. Results of the previous inspections completed in 2015 were used as a template for this round of inspections. Updated OSIM forms are located in Appendix B. The reports identify additional inspections required and recommended work to repair deficiencies along with estimated costs and schedule for such repairs. The following summarizes the results of our inspections.

### 2.1 Bullen Creek (B2)

The Bullen Creek Bridge is located approximately 0.35 km south of Highway 11 on Rowanwood Road. The structure is a single 8 meter span concrete T-beam bridge. The bridge was constructed in 1920 and is generally in good to fair condition as it was recently rehabilitated. The BCI and BSI values are 78 and 67 respectively.

#### Recommended Maintenance

1 year

- Rout and seal approach wearing surfaces

#### Recommended Repairs

Urgent

- Replace load capacity sign

1-5 years

- Repair mortar on wingwalls
- Replace utilities
- Repave approaches
- Concrete patch repair and galvanized deck drainage at girders
- Repair deck concrete
- Repave deck wearing surface
- Soffit concrete patching

## 2.2 Stephenson Ward (B4)

The Stephenson Ward Bridge is located approximately 1.6 km east of North Lancelot Road on South Lancelot Road. The structure is a single 6.2 m span concrete T-beam bridge. The bridge was constructed in 1970 and is generally in fair to poor condition with BCI and BSI values of 35 and 28 respectively. Replace structure in 1-5 years.

### Recommended Maintenance

1 year

- Replace damaged and defaced warning signs (3). Replace east narrow bridge/one lane sign.
- Clean sand from bridge and inspect wearing surface.

2 years

- Install erosion control

### Recommended Repairs

Urgent

- Install guiderail at approaches
- Replace post and railing system to current code
- Install deck drains that extend beyond girder
- Replace curb

1-5 years

- Replace abutments
- Concrete repair and install scour protection at wingwalls
- Repave east approach
- Concrete repair at girders
- Concrete patch, waterproof and pave deck to
- Concrete patch repair at soffit (thin slab)

## 2.3 Old North Road Bridge (B5)

The Chaffey Ward Bridge is located approximately 2 km north of Highway 11 on Old North Road. The Structure is a single 22.4 m span concrete slab on precast girders bridge. The bridge was constructed in 1970 and is generally in good condition with BCI and BSI values of 65 and 53 respectively.

### Recommended Maintenance

1 year

- Replace broken end caps on hand rails
- Replace joint seals at both expansion joints
- Clean sediment from deck top

2 years

- Concrete sealing repair on south west wall of abutment wall
- Concrete sealing repair northeast and southeast wingwalls
- Concrete seal parapet walls
- Install erosion protection and mitigation measures at south embankments

#### Recommended Repair

Urgent

- Replace damaged guiderails and install end treatments. Upgrade structure connection at next major rehab

1-5 years

- Concrete sealing repair northwest and southwest wingwalls
- Replace armouring at curb
- Patch repair and install rubberized joint seal between end dam and asphalt

## **2.4 East River Bridge (B6)**

The East River Bridge is located approximately 5.96 km East of District Road 3 on Williamsport Road. The structure is a single 30 m span concrete slab on steel girders bridge. The bridge was constructed in 1990 and is generally in good condition with BCI and BSI values of 78 and 75 respectively.

#### Recommended Maintenance

Urgent

- Install hazard signs at buried ends of rail if end treatments are not installed immediately.
- Clean sediment from deck top

1 year

- Replace/ fix rotten and twisted guide rail posts and blocks
- Patch abraded and spalled inside face of curb
- Replace ends caps on hand rails
- Install erosion protection at southeast quadrant
- Clean debris from joint seals

2 years

- Route and seal approach wearing surface

## Recommended Repairs

### Urgent

- Install end treatments at approach barriers
- Fill washout at southwest approach

### 1-5 years

- Replace joint seals

## **2.5 Fish Lake Road Bridge (B7)**

The Fish Lake Road Bridge is located approximately 0.08 km East of Highway 592 on Fish Lake Road. The structure is a single 6.3 m span concrete T-beam bridge. The bridge was constructed in 1930 and is generally in fair condition due to the age of the structure. The BCI and BSI values are 69 and 59 respectively.

## Recommended Maintenance

### 1 year

- Remove blockage from watercourse

## Recommended Repairs

### Urgent

- Replace max load sign
- Install drains that extend beyond soffit and girders

### 1-5 years

- Regrade and repave approaches
- Repair areas of deficient concrete at parapet walls
- Repair concrete on barriers
- Repair concrete on girders
- Repair concrete cracks on deck top
- Concrete patch repair soffit- thin slab (Interior)
- Repair concrete of soffit – thin slab (exterior/fascia)
- Patch asphalt at northeast quadrant where washout has occurred

## **2.6 CN Rail Overhead (B9)**

The CN Rail Overhead Bridge is located approximately 0.3 km North of District Road 3 on Lakewood Park Road. The structure is a triple span of 23.3 m, 16.7 m and 20.6 m concrete slab on precast girders bridge. The bridge was constructed in 1980 and is in generally good condition with BCI and BSI values of 70 and 66 respectively.

## Recommended Maintenance

### Urgent

- Install object warning marker signs at south buried guide rail ends.
- Add asphalt patch to corner of northeast sidewalk for pedestrian safety.
- Repair honeycombing and cracks at parapet wall connection to guide rail. Patch remaining defective areas on parapets.
- Reseal all end dams to asphalt interfaces.

### 1 year

- Clean out catch basins during curb and gutter cleaning.
- Rout and seal deck and approaches.
- Patch pothole at north end of deck.

### 2 years

- Galvanize handrails.

## Recommended Repairs

### Urgent

- Repair slackened cables on approach. Replace broken posts.
- Straighten bridge ices signs to upright.

### 1-5 years

- Concrete patch ballast walls.
- Replace approach cable barrier system with steel beam guide rail.
- Concrete repair approach curb/gutter.
- Repave approaches with deck.
- Repair concrete at north diaphragm.
- Repair concrete at southwest girder ends.
- Waterproof and repave deck.
- Patch repair concrete at pier caps.

### 6-10 years

- Patch concrete at damaged sections of curb and sidewalk.

## **2.7 Little East River Bridge (B10)**

The Little East River Bridge is located approximately 0.2 km East of Waseosa Lake Road on Ceramic Mine Road. The structure is a single 4.6 m span timber deck on steel girders bridge. The bridge was constructed in 1950 and is in generally fair condition with BCI and BSI values of 67 and 57 respectively.

### Recommended Maintenance

#### Urgent

- Replace/ repair damaged sign (1).
- Fill west washouts.

#### 1 year

- Blend to road on west side to provide sufficient drainage. Regrade east approach.
- Replace all four edge boards.
- Clear concrete debris from under bridge, currently shallow water due to debris is causing increased velocity and therefore increased erosion.

### Recommended Repairs

#### Urgent

- Install guiderail at approaches

#### 1-5 years

- Replace 2, 0.15x0.15x5.6 m curbs

## **2.8 Domtar Road Bridge (B11)**

The Domtar Road Bridge is located approximately 0.45 km North of Old Muskoka Road on Domtar Road. The structure is a single 3.1 m span concrete rigid frame bridge. The bridge was constructed in 1950 and is in generally fair condition with BCI and BSI values of 47 and 40 respectively.

### Recommended Maintenance

#### 1 year

- Rout and seal deck wearing surface

#### 2 years

- Install erosion protection at abutments

### Recommended Repairs

#### Urgent

- Install steel beam guiderail with end treatment at approaches

#### 1-5 years

- Repave approaches
- Concrete repairs at barrier posts
- Concrete repairs at railing system
- Reface the soffit
- Waterproof and pave deck.

## 2.9 Centre Street Bridge (B13)

The Centre Street Bridge is approximately located 0.32 km South of District Road 2 on Centre Street. The structure is a triple 24.9 m, 33.5 m, and 24.9 m span concrete slab on steel girder bridge. The bridge was constructed in 1979 and is in generally good to fair condition with BCI and BSI values of 65 and 60 respectively.

### Recommended Maintenance

#### Urgent

- Install hazard signs at buried guide rail ends. Straighten south bound bridge ices sign
- Rout and seal approaches

#### 1 year

- Investigate the extent of deterioration of watermain below deck
- Replace rotten guide rail posts
- Repair cracks in curb/gutter at NW catch basin
- Repair grout and stone on Southeast and Northwest parapet
- Clear out catch basins of debris on deck
- Rout and seal cracks and fill pot holes on deck wearing surface

#### 2 years

- Be aware of holes created in handrail from impact damage

### Recommended Repairs

#### Urgent

- Install guiderail on the south side, upgrade all four (4) end treatments
- Replace joint seals and armouring

#### 1-5 years

- Concrete patch repair curbs on deck

#### 6-10 years

- Repair ballast wall

## 2.10 Candytown Lane Bridge (B14)

The Candytown Lane Bridge is approximately located 0.5 km East of District Road 10 on Candytown Lane. The structure is a single 6.1 m span concrete T-beam bridge. The bridge was constructed in 1930 and is in generally fair condition with 25% in poor condition. The BCI and BSI values are 44 and 3.

### Recommended Maintenance

### Urgent

- Install hazard warning signs at barrier ends.

### 1 year

- Install scour protection at north side wingwalls.
- Remove excessive vegetation from posts.
- Bridge cleaning and remove excess vegetation from railing system.
- Remove excess fill and vegetation from wearing surface to reduce constant load.

### 2 years

- Clear vegetation and regrade approaches

### Recommended Repairs

#### Urgent

- Install approach guiderail if used by motorists or snowmobiles

#### 1-5 years

- Repair poor concrete on abutments, install erosion protection at NE side
- Repair concrete on wingwalls
- Repair concrete at girders
- Install deck drains that extend past the soffit
- Patch repair the concrete soffit

### **2.11 Gall Trail (B17)**

The Gall Trail Bridge is approximately located 1.79 km East of Orr Road on Gall Trail. The structure is a single 4.5 m span timber deck on steel girder bridge. The bridge was constructed in 1970 and is in fair condition with BCI and BSI values of 57 and 47 respectively.

### Recommended Maintenance

#### Urgent

- Restore signs to their correct orientation. Clear vegetation from One Lane and Speed Warning signs.

### Recommended Repairs

#### Urgent

- Replace all hazards.
- Replace 0.05x0.2 m running boards on wearing surface.
- Repair/ replace abutments
- Replace deficient bearings in required locations during crib rehabilitation
- Install steel beam guiderail system and end treatments at approaches
- Repave approaches

- Replace corroded girders
- Replace deck timbers that appear deteriorated on the soffit face
- Replace timber curb on deck

### 3. IMPROVEMENT COSTS

The tables below summarize the estimated cost of the repair and rehabilitation required for the deficiencies identified through the inspection process. Cost tables have been split into maintenance items and repair item costs. Detailed cost estimates for the repairs and maintenance are outlined on the page after the element data tables of the OSIM forms in Appendix B.

Repairs	Bullen Creek B2	Stephenson Ward B4	Old North Road B5	Big East River B6	Fish Lake Road B7	CN Rail B9	Little East River B10	Domtar B11	Centre Street B13	Candytown Lane B14	Gall Trail B17	Total Cost (Sum)
Urgent	0.50	27.00	15.50	13.00	7.5	12.00	24.00		42.0		250.00	391.5
1-5 years	175.0	175.0	50.00	7.00	57.0	115.0	7.00		50.00	400.0		1,036
6-10 years		450.0				5.00		300.0	10.00			76.5
<b>Total</b>											<b>2,192.5</b>	

Cost in 1000's of dollars  
Cost in 1000's of dollars

Maintenance	Bullen Creek B2	Stephenson Ward B4	Old North Road B5	Big East River B6	Fish Lake Road B7	CN Rail B9	Little East River B10	Domtar B11	Centre Street B13	Candytown Lane B14	Gall Trail B17	Total Cost (Sum)
Urgent				3.00	2.00	22.00	2.50		4.0	2.0	3.00	38.50
1 year		2.00	25.55	11.0	1.00	1.12	11.00		12.5	12.00		76.17
2 years		5.00	55.00	2.00		1.5		2.00	0.00	5.00		70.50
<b>Total</b>											<b>185.17</b>	

#### 4. CONCLUSIONS AND RECOMMENDATIONS

Upon completion of the biennial structure inspections, a number of recommendations have been identified for both short and long-term planning with municipal structures.

Critical items to address on an urgent basis are as follows:

- Signage is to be replaced or installed:
  - Bullen creek – load capacity sign
  - Fish Lake Road Bridge – Max load sign
  - CN Rail bridge – Straighten bridge ices signs
  - Little East River Bridge – Damaged sign (1)
  - Centre Street Bridge – Straighten bridge ices signs
  - Gall Trail Bridge – Hazards
  - Install hazard signs at buried ends of all approach guide rail if no end treatments are installed immediately
- Install/ replace guide rail and end treatments at:
  - South Lancelot Bridge
  - Old North Road Bridge
  - CN Rail Overhead Bridge
  - Little East River Bridge
  - Domtar Road Bridge
  - Centre Street Bridge at south end of bridge
  - Candytown Lane Bridge if used by motorist/ snowmobiles
  - Gall Trail Bridge
- Replace/ rehabilitate expansion joints:
  - Old North Road Bridge – Replace within 1 year
  - Big East River Bridge – Replace seal in 1-5 years
  - CN Rail Bridge – Reseal concrete end dams at asphalt interfaces
  - Centre Street Bridge – Replace joint seals
- Repair/ replace Barrier or railing system on structure:
  - South Lancelot Bridge – Replace railing system to current code
  - Big East River Bridge – Upgrade parapets at next major rehab
  - CN Rail Bridge – Repair concrete on barriers
  -

- Deck Repairs:
  - South Lancelot Road Bridge – Install Drains that extend beyond girders and replace curb
  - Fish Lake Road Bridge – Install Drains that extend beyond soffit and girders
  - Centre Street Bridge – Rout and seal wearing surface
  - Candytown Lane Bridge – Remove excess fill and vegetation
  - Gall Trail Bridge – Replace 0.05x0.2 m running boards
  
- Erosion Control:
  - Big East River Bridge – Fill washout at SW approach
  - Little East River Bridge – Fill W washout

Gall Trail Bridge (B17) should be replaced within a year and the Candytown Lane Bridge (B14) should be replaced in the next 1-5 years. Meanwhile monitor the deformation, settlement, and movements within and around the structure. As well monitor the cracks within the structure. Additionally, South Lancelot Road Bridge (B4), and Domtar Bridge (B11) should be scheduled for replacement in the next 6-10 years.

We trust that the contents of this report sufficiently outline the requirements for bridge maintenance, repair, and replacement. Should you have any questions or comments on the contents of this report, please do not hesitate to contact our office.

Respectfully Submitted,



Frank Palmay, P. Eng.  
TULLOCH ENGINEERING INC.



## **APPENDIX A**

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### **Glossary of Definitions**

**Abutment** - A substructure unit which supports the end of the structure and retains the approach fill.

**Auxiliary Components** - Any component which does not share in the load carrying capacity of the structure.

**Biennial Structure Inspection** - An inspection performed in every second calendar year to assess the condition of the structure, in accordance with the methodology described in OSIM.

**Bridge** - A structure which provides a roadway or walkway for the passage of vehicles, pedestrians or cyclists across an obstruction, gap or facility and is greater than or equal to 3 m in span.

**Chord** - The upper and lower main longitudinal component in trusses or arches extending the full length of the structure.

**Coating** - The generic term for paint, lacquer, enamel, sealers, galvanizing, metallizing, etc.

**Concrete Deck Condition Survey** - A detailed inspection of a concrete deck in accordance with The Structure Rehabilitation Manual.

**Culvert (Structural)** - A Structure that forms an opening through soil and has a span of 3 metres or more

**Defect** - An identifiable, unwanted condition that was not part of the original intent of design.

- **Scaling** - Scaling is the local flaking, or loss of the surface portion of concrete or mortar as a result of the freeze-thaw deterioration of concrete. Scaling is common in non air-entrained concrete, but can also occur in air-entrained concrete in the fully saturated condition. Scaling is prone to occur in poorly finished or overworked concrete where too many fines and not enough entrained air is found near the surface.
- **Disintegration** - Disintegration is the physical deterioration or breaking down of the concrete into small fragments or particles. The deterioration usually starts in the form of scaling and, if allowed to progress beyond the level of very severe scaling is considered as disintegration. Disintegration may be caused by de-icing chemicals, sulphates, chlorides or by frost action.
- **Erosion** - Erosion is the deterioration of concrete brought about by water-borne sand and gravel particles scrubbing against concrete surfaces. Similar, damage may be caused by flowing ice. Erosion is sometimes combined with the chemical action of air and water-borne pollutants which accelerate the breakdown of the concrete. Erosion is generally an indication that the concrete is not durable enough for the environment in which it has been placed.
- **Corrosion of Reinforcement** - Corrosion is the deterioration of reinforcement by electrolysis. The alkali content in concrete protects the reinforcement from corrosion. However, when chloride ions above a certain concentration are dissolved in water and

penetrate through the concrete to the reinforcement this protection breaks down and corrosion starts. In the initial stages, corrosion may appear as a rust-stain on the concrete surface. In the advanced stages, the surface concrete above the reinforcement cracks, delaminates and spalls off exposing heavily rusted reinforcement.

- **Delamination** - Delamination is defined as a discontinuity of the surface concrete which is substantially separated but not completely detached from concrete below or above it. Visibly, it may appear as a solid surface but can be identified as a hollow sound by tapping or chain dragging. Delamination begins with the corrosion of reinforcement and subsequent cracking of the concrete. Delamination or debonding may also occur in concrete that has been patched or overlaid due to the continued deterioration of the older concrete. This may happen even in the absence of any rusting of reinforcing steel.
- **Spalling** - A spall is a fragment, which has been detached from a larger concrete mass. Spalling is a continuation of the delamination process whereby the actions of external loads, pressure exerted by the corrosion of reinforcement or by the formation of ice in the delaminated area results in the breaking off of the delaminated concrete.
- **Cracking** - A crack is a linear fracture in concrete which extends partly or completely through the member. Cracks in concrete occur as a result of tensile stresses introduced in the concrete. Tensile stresses are initially carried by the concrete and reinforcement until the level of the tensile stresses exceeds the tensile capacity of the concrete. After this point the concrete cracks and the tensile force is transferred completely to the steel reinforcement. The crack widths and distribution is controlled by the reinforcement in reinforced and prestressed concrete, whereas in plain concrete there is no such control.
- **Alkali-Aggregate Reaction** - In Ontario, there exists several sources of aggregates that react adversely with the alkalis in cement to produce a highly expansive gel. Currently, these sources of reactive aggregates are generally avoided, but they do exist in many existing structures and still may occur in newer structures. The two general types of reactions in Ontario are alkali-carbonate and alkali-silica reaction. The expansion of the gel and aggregates occurs due to hydroxyl ions in the concrete pore solution, which under moist conditions, leads to cracking and deterioration of the concrete.
- **Surface Defects** - Surface defects are not necessarily serious in themselves; however, they are indicative of a potential weakness in the concrete, and their presence should be noted but not classified as to severity, except for honeycombing and pop-outs.
  - **STRATIFICATION** is the separation of the concrete components into horizontal layers in over-wetted or over-vibrated concrete. Water, laitance, mortar and coarse aggregates occupy successively lower positions. A layered structure in concrete will also result from the placing of successive batches that differ in appearance.
  - **SEGREGATION** is the differential concentration of the components of mixed concrete resulting in nonuniform proportions in the mass. Segregation is caused by concrete falling from a height, with the coarse aggregates settling to the bottom and the fines on top. Another form of segregation occurs where reinforcing bars prevent the uniform flow of concrete between them.
  - **COLD JOINTS** are produced if there is a delay between the placement of successive pours of concrete, and if an incomplete bond develops at the joint due to the partial setting of the concrete in the first pour.

- DEPOSITS are often left behind where water percolates through the concrete and dissolves or leaches chemicals from it and deposits them on the surface.
- HONEYCOMBING is produced due to the improper or incomplete vibration of the concrete which results in voids being left in the concrete where the mortar failed to completely fill the spaces between the coarse aggregate particles.
- POP-OUTS are shallow, typically conical depressions, resulting from the breaking away of small portions of the concrete surface, due to the expansion of some aggregates or due to frost action. The shattered aggregate particle may be found at the bottom of the depression, with a part of the aggregate still adhering to the pop-out cone.
- ABRASION is the deterioration of concrete brought about by vehicles or snow-plough blades scraping against concrete surfaces, such as, decks, curbs, barrier walls or piers.
- WEAR is usually the result of dynamic and/or frictional forces generated by vehicular traffic, coupled with the abrasive influx of sand, dirt and debris. It can also result from the friction of ice or water-borne particles against partly or completely submerged members. The surface of the concrete appears polished.
- SLIPPERY CONCRETE SURFACES may result from the polishing of the concrete deck surface by the action of repetitive vehicular traffic.

**Detailed Visual Inspection** - An element by element visual assessment of material defects, performance deficiencies and maintenance needs of a structure.

**Deterioration** - A defect that has occurred over a period of time.

**Distress** - A defect produced by loading.

**Elements** - The individual parts of a structure defined for inspection purposes. Several bridge components may be grouped together to form one bridge element for inspection purposes

**Environment** - An element's exposure to salt spray:

- Benign - Not exposed (e.g. River Pier)
- Moderate - Exposed but element protected (e.g. Asphalt covered and waterproofed deck)
- Severe - Exposed and element not protected (e.g. Exposed concrete deck, Barrier Wall)

**Evaluation** - The determination of the load carrying capacity of structures in accordance with the requirements of the Canadian Highway Bridge Design Code.

**Maintenance** - Any action which is aimed at preventing the development of defects or preventing deterioration of a structure or its components.

**Primary Components** - The main load carrying components of the structure.

**Rehabilitation** - Any modification, alteration, retrofitting or improvement to a structure subsystem or to the structure which is aimed at correcting existing defects or deficiencies.

**Remaining Service Life** - Remaining Service Life is an estimate of the useful remaining life of the structure and is based on the year of construction or major rehabilitation and a service life of 50 years for culverts that are not plastic, polymer coated or concrete, 50 years for bridges constructed prior to 2000, 50 years for steel bridges and 70 years for other structures.

**Repair** - Any modification, alteration, retrofitting or improvement to a component of the structure which is aimed at correcting existing defects or deficiencies.

**Retaining Wall** - Any structure that holds back fill and is not connected to a bridge.

**Secondary Components** - Any component which helps to distribute loads to primary components, or carries wind loads, or stabilizes primary components.

**Sign Support** - A metal, concrete or timber structure, including supporting brackets, service walks and mechanical devices where present, which support a luminaire, sign or traffic signal and which span or extend over a highway.

**Span** - The horizontal distance between adjacent supports of the superstructure of a bridge, or the longest horizontal dimension of the cross-section of a culvert or tunnel taken perpendicular to the walls.

**Stringers** - Stringers span between floor beams and provide the support for the deck above.

**Structure** - Bridge, culvert, tunnel, retaining wall or sign support.

**Suspected Performance Deficiency** - A Suspected Performance Deficiency should be recorded during an inspection, if an element's ability to perform its intended function is in question, and one or more performance defects exist.

## **APPENDIX B**

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### **OSIM Forms**

<b>Inventory Data:</b>			
<b>Structure Name</b> <input style="width: 90%;" type="text" value="Bridge 02 - Bullen Creek"/>			
<b>Main Hwy/Road #</b> <input style="width: 150px;" type="text"/>		<input type="checkbox"/> On <input checked="" type="checkbox"/> Under <b>Crossing Type:</b> <input checked="" type="checkbox"/> Navi. Water, <input checked="" type="checkbox"/> Non-Navi. Water, <input type="checkbox"/> Rail, <input type="checkbox"/> Road, <input type="checkbox"/> Ped., <input type="checkbox"/> Other, <input type="checkbox"/> Over water, <input type="checkbox"/> Over Road, <input type="checkbox"/> Under railway, <input type="checkbox"/> Unknown, <input type="checkbox"/> Over railway, <input type="checkbox"/> Under Road	
<b>Hwy/Road Name</b> <input style="width: 90%;" type="text" value="Rowanwood Road"/>			
<b>Structure Location</b> <input style="width: 90%;" type="text" value="0.35km South of Highway 11"/>			
<b>Latitude</b> <input style="width: 150px;" type="text" value="45.252780"/>		<b>Longitude</b> <input style="width: 150px;" type="text" value="-79.294783"/>	
<b>Northing</b> <input style="width: 150px;" type="text"/>		<b>Easting</b> <input style="width: 150px;" type="text"/>	
<b>Owner(s)</b> <input style="width: 150px;" type="text" value="Town of Huntsville"/>		<b>Heritage designation:</b> <input checked="" type="checkbox"/> Not Cons., <input type="checkbox"/> Cons./not App., <input type="checkbox"/> List/not Desig., <input type="checkbox"/> Desig./not List, <input type="checkbox"/> Desig. & List	
<b>MTO Region</b> <input style="width: 150px;" type="text" value="Northeastern"/>		<b>Road Class:</b> <input type="checkbox"/> Freeway, <input type="checkbox"/> Arterial, <input type="checkbox"/> Collector, <input type="checkbox"/> Collector Residential, <input type="checkbox"/> Collector Commercial, <input checked="" type="checkbox"/> Local, <input type="checkbox"/> Local Residential, <input type="checkbox"/> Local Commercial, <input type="checkbox"/> Rural Expressways, <input type="checkbox"/> Alleyways, <input type="checkbox"/> 4 or more lanes	
<b>MTO District</b> <input style="width: 150px;" type="text" value="Huntsville"/>	<b>Posted Speed</b> <input style="width: 50px;" type="text" value="60"/>	<b>No. of Lanes</b>	<input style="width: 50px;" type="text" value="1"/>
<b>Old County</b> <input style="width: 150px;" type="text" value="Simcoe-Muskoka"/>	<b>AADT</b> <input style="width: 50px;" type="text" value="75.0"/>	<b>% Trucks</b>	<input style="width: 50px;" type="text"/>
<b>Geographic Twp.</b> <input style="width: 150px;" type="text" value="Brunel"/>	<b>Inspection Route Sequence</b> <input style="width: 150px;" type="text"/>		
<b>Structure Type</b> <input style="width: 150px;" type="text" value="Concrete T-Beam"/>	<b>Interchange Number</b> <input style="width: 150px;" type="text"/>		
<b>Total Deck Length</b> <input style="width: 50px;" type="text" value="8.6"/> (m)	<b>Interchange Structure Number</b> <input style="width: 150px;" type="text"/>		
<b>Overall Str. Width</b> <input style="width: 50px;" type="text" value="5.3"/> (m)	<b>Min. Vertical Clearance</b> <input style="width: 150px;" type="text"/> (m)		
<b>Total Deck Area</b> <input style="width: 50px;" type="text" value="45.58"/> (sq.m)	<b>Special Routes:</b> <input type="checkbox"/> Transit, <input type="checkbox"/> Truck, <input type="checkbox"/> School, <input type="checkbox"/> Bicycle, <input type="checkbox"/> Emergency, <input type="checkbox"/> Commuter		
<b>Roadway Width</b> <input style="width: 50px;" type="text" value="4.5"/> (m)	<b>Detour Length Around Bridge</b> <input style="width: 50px;" type="text" value="5.5"/> (km)		
<b>Skew Angle</b> <input style="width: 50px;" type="text" value="20"/> (Degrees)	<b>Direction of Structure</b> <input style="width: 150px;" type="text" value="North-South"/>		
<b>No. of Spans</b> <input style="width: 50px;" type="text" value="1"/>	<b>Fill on Structure</b> <input style="width: 150px;" type="text"/> (m)		
<b>Span Lengths</b> <input style="width: 150px;" type="text" value="8"/> (m)			

<b>Historical Data:</b>			
<b>Year Built</b>	<input style="width: 50px;" type="text" value="1920"/>	<b>Year of Last Major Rehab.</b>	<input style="width: 50px;" type="text"/>
<b>Last OSIM Inspection</b>	<input style="width: 50px;" type="text" value="2015"/>	<b>Last Evaluation</b>	<input style="width: 50px;" type="text"/>
<b>Last Enhanced OSIM Inspection</b>	<input style="width: 50px;" type="text"/>	<b>Current Load Limit</b>	<input style="width: 50px;" type="text" value="/ 14.0 /"/> (tonnes)
<b>Enhanced Access Equipment</b>	<input style="width: 50px;" type="text"/>	<b>Load Limit By-Law #</b>	<input style="width: 50px;" type="text" value="/ /"/>
<b>Last Underwater Inspection</b>	<input style="width: 50px;" type="text"/>	<b>By-Law Expiry Date</b>	<input style="width: 50px;" type="text"/>
<b>Last Condition Survey</b>	<input style="width: 50px;" type="text"/>		
<b>Rehab History: (Date/description)</b>			

Scheduled Improvements:	
<b>Regional Priority Number</b>	<input type="text"/>
<b>Programmed Work Year</b>	<input type="text"/>
<b><i>Nature of Program Work:</i></b>	

Appraisal Indices:		Comments
<b>Fatigue</b>	<input type="text"/>	
<b>Seismic</b>	<input type="text"/>	
<b>Scour</b>	<input type="text"/>	
<b>Flood</b>	<input type="text"/>	
<b>Geometrics</b>	<input type="text"/>	
<b>Barrier</b>	<input type="text"/>	
<b>Curb</b>	<input type="text"/>	
<b>Load Capacity</b>	<input type="text"/>	

Field Inspection Information:			
<b>Date of Inspection:</b>	June 28, 2018	<b>Inspection Type</b>	OSIM
<b>Inspector:</b>	Ben Belfry		
<b>Others in Party:</b>	Sean Wetmore		
<b>Access Equipment Used:</b>	Tape, hammer, waders, flashlight		
<b>Weather:</b>	Sunny		
<b>Temperature:</b>	25.0 °C		

Upcoming Inspections and Investigations:		
Due date	Priority	Comments

Additional Investigations Required:	Priority		
	None	Normal	Urgent
<b>Material Condition Survey</b>	✓		
<b>Detailed Deck Condition Survey:</b>			
<b>Non-destructive Delamination Survey of Asphalt-Covered Deck:</b>			
<b>Concrete Substructure Condition Survey:</b>			
<b>Detailed Coating Condition Survey:</b>			
<b>Detailed Timber Investigation</b>			
<b>Post-Tensioned Strand Investigation</b>			
<b>Underwater Investigation:</b>	✓		
<b>Fatigue Investigation:</b>	✓		
<b>Seismic Investigation:</b>	✓		
<b>Structure Evaluation:</b>	✓		
<b>Monitoring</b>	✓		
<b>Monitoring of Deformations, Settlements and Movements:</b>			
<b>Monitoring Crack Widths:</b>			

**Investigation Notes:**  
*None*

<b>Overall Structure Notes:</b>	
<b>Recommended Work on Structure:</b>	
<b>Timing of Recommended Work:</b>	<input type="checkbox"/> Urgent, <input type="checkbox"/> Now < 1 year, <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> > 10 years
<b>Overall Comments:</b>	Rehabilitation require in up to 5 years
<b>Date of Next Inspection:</b>	2020

<b>Overall Bridge Condition:</b>	78.1
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Recommended inspections and Investigations	Due date	Priority	Comments
<b>Boat Inspection</b>			
<b>Bridge master</b>			
<b>Coating survey</b>			
<b>Detailed condition survey</b>			
<b>Evaluation</b>			
<b>Fatigue</b>			
<b>Monitor Settlements/Movements</b>			
<b>Seismic</b>			
<b>Substructure condition survey</b>			
<b>Underwater</b>			

**Suspected Performance Deficiencies**

- |                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li><b>01</b> Load carrying capacity</li> <li><b>02</b> Excessive deformations (deflections &amp; rotations)</li> <li><b>03</b> Continuing settlement</li> <li><b>04</b> Continuing movements</li> <li><b>05</b> Seized bearings</li> </ul>                                                | <ul style="list-style-type: none"> <li><b>06</b> Bearing not uniformly loaded/unstable</li> <li><b>07</b> Jammed expansion joint</li> <li><b>08</b> Pedestrian/vehicular hazard</li> <li><b>09</b> Rough riding surface</li> <li><b>10</b> Surface ponding</li> <li><b>11</b> Deck drainage</li> </ul>         | <ul style="list-style-type: none"> <li><b>12</b> Slippery surfaces</li> <li><b>13</b> Flooding/channel blockage</li> <li><b>14</b> Undermining of foundation</li> <li><b>15</b> Unstable embankments</li> <li><b>16</b> Other</li> <li><b>17</b> None</li> </ul>                      |
| <b>Maintenance Needs</b>                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li><b>01</b> Lift and Swing Bridge Maintenance</li> <li><b>02</b> Bridge Cleaning</li> <li><b>03</b> Bridge Handrail Maintenance</li> <li><b>04</b> Painting Steel Bridge Structures</li> <li><b>05</b> Bridge Deck Joint Repair</li> <li><b>06</b> Bridge Bearing Maintenance</li> </ul> | <ul style="list-style-type: none"> <li><b>07</b> Repair to Structural Steel</li> <li><b>08</b> Repair of Bridge Concrete</li> <li><b>09</b> Repair of Bridge Timber</li> <li><b>10</b> Bailey bridges - Maintenance</li> <li><b>11</b> Animal/Pest Control</li> <li><b>12</b> Bridge Surface Repair</li> </ul> | <ul style="list-style-type: none"> <li><b>13</b> Erosion Control at Bridges</li> <li><b>14</b> Concrete Sealing</li> <li><b>15</b> Rout and Seal</li> <li><b>16</b> Bridge Deck Drainage</li> <li><b>17</b> Scaling (Loose Concrete or ACR Steel)</li> <li><b>18</b> Other</li> </ul> |



<b>Element Group:</b>	Accessories					<b>Length:</b>	
<b>Element Name:</b>	Signs					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>	Load Limit Posting on South Approach.					<b>Count:</b>	7
<b>Material:</b>	Steel					<b>Total Quantity:</b>	7.0
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	08. Pedestrian/vehicular hazard	
	each	0.00	6.0	0.00	1.0	<b>BCI TEV:</b> 700.0	<b>BCI CEV:</b> 450.0
<b>Comments:</b>	Object warning hazard markers at all four quadrants are in good condition. Narrow crossing sign on north approach is in good condition. 14 Tonne load limit posting is in poor condition with surface cracking.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>  Replace load capacity sign						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type</b>		<b>Timing</b>					
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace		<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input checked="" type="checkbox"/> Urgent					

<b>Element Group:</b>	Accessories					<b>Length:</b>	
<b>Element Name:</b>	Utilities					<b>Width:</b>	
<b>Location:</b>	East and West					<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	2
<b>Material:</b>	PVC casing					<b>Total Quantity:</b>	2.0
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	each	0.00	0.00	2.0	0.00	<b>BCI TEV:</b>	<b>BCI CEV:</b>
<b>Comments:</b>	Slight abrasion on casing						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>  Replace						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type</b>		<b>Timing</b>					
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace		<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent					

<b>Element Group:</b>	Approaches	<b>Length:</b>	102.1 (m)		
<b>Element Name:</b>	Barriers	<b>Width:</b>			
<b>Location:</b>		<b>Height:</b>			
<b>Element Description:</b>	New	<b>Count:</b>	4		
<b>Material:</b>	Steel	<b>Total Quantity:</b>	102.1 (m)		
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>		<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>
	m	61.3	40.8	0.00	0.00
<b>BCI TEV:</b>	20420.0		<b>BCI CEV:</b> 18380.0		
<b>Comments:</b>	Recently installed. Excellent condition.				
<b>Recommended work:</b>			<b>Maintenance Needs:</b>		
<b>Comments</b>			<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>	<b>Timing</b>				
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace			<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent		

<b>Element Group:</b>	Approaches	<b>Length:</b>	6.0 (m)		
<b>Element Name:</b>	Wearing surface	<b>Width:</b>	4.5 (m)		
<b>Location:</b>	North and South	<b>Height:</b>			
<b>Element Description:</b>		<b>Count:</b>	2		
<b>Material:</b>	Asphalt	<b>Total Quantity:</b>	54.0 (sq.m)		
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>		<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>
	sq.m	0.00	46.0	4.0	4.0
<b>BCI TEV:</b>	324.0		<b>BCI CEV:</b> 216.6		
<b>Comments:</b>	Wheel track rutting, centreline cracks, transverse cracks at both joints, settlement behind abutments.				
<b>Recommended work:</b>			<b>Maintenance Needs:</b> <i>None</i>		
<b>Comments</b>			<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>	<b>Timing</b>				
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace			<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent		
Repave approaches.					

<b>Element Group:</b>	Barriers	<b>Length:</b>	0.1 (m)		
<b>Element Name:</b>	Posts	<b>Width:</b>	0.1 (m)		
<b>Location:</b>	East and West	<b>Height:</b>	0.6 (m)		
<b>Element Description:</b>		<b>Count:</b>	10		
<b>Material:</b>	Corrugated Steel	<b>Total Quantity:</b>	10.0 (each)		
<b>Element Type:</b>	SBGR posts	<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>		<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>
	each	6.0	4.0	0.00	0.00
			<b>BCI TEV: 2000.0</b>	<b>BCI CEV: 1800.0</b>	
<b>Comments:</b>	New steel railing system posts I beam girder style. Excellent condition free of rust.				
<b>Recommended work:</b>			<b>Maintenance Needs:</b>		
<b>Comments</b>			<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>	<b>Timing</b>				
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace			<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent		

<b>Element Group:</b>	Barriers	<b>Length:</b>	8.6 (m)		
<b>Element Name:</b>	Railing Systems	<b>Width:</b>	0.12 (m)		
<b>Location:</b>	East and West	<b>Height:</b>	0.6 (m)		
<b>Element Description:</b>	Steel Railing System	<b>Count:</b>	2		
<b>Material:</b>	Corrugated Steel	<b>Total Quantity:</b>	17.2 (m)		
<b>Element Type:</b>	Steel Railing	<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>		<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>
	m	10.3	6.9	0.00	0.00
			<b>BCI TEV: 3440.0</b>	<b>BCI CEV: 3095.0</b>	
<b>Comments:</b>	New steel railing system in excellent condition. No rust.				
<b>Recommended work:</b>			<b>Maintenance Needs:</b>		
<b>Comments</b>			<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>	<b>Timing</b>				

<b>Element Group:</b>	Beams/Main Longitudinal Elements					<b>Length:</b>	7.8 (m)	
<b>Element Name:</b>	Girders					<b>Width:</b>	0.3 (m)	
<b>Location:</b>						<b>Height:</b>	0.6 (m)	
<b>Element Description:</b>						<b>Count:</b>	4	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	45.6 (sq.m)	
<b>Element Type:</b>	T-Beam					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	43.0	1.0	0.75	<b>BCI TEV:</b> 9120.0	<b>BCI CEV:</b> 6530.0	
<b>Comments:</b>	Spalling, delamination, and exposed rebar on one girder near south abutment and light scaling throughout. Active wet spots on girders at drainage.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b> Concrete patch repair. Galvanized drainage.						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b> <input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace		<b>Timing</b> <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent						

<b>Element Group:</b>	Decks					<b>Length:</b>	8.6 (m)	
<b>Element Name:</b>	Deck Top					<b>Width:</b>	5.3 (m)	
<b>Location:</b>						<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	1	
<b>Material:</b>	Cast-in-place concrete					<b>Total Quantity:</b>	45.6 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	33.6	7.7	4.3	<b>BCI TEV:</b> 5472.0	<b>BCI CEV:</b> 3393.6	
<b>Comments:</b>	Limited inspection due to the presence of the asphalt wearing surface. Exposed to salting. Slight delamination at se side near drain hole. Rest of condition based on soffit and wearing surface.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b> Repair concrete.						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b> <input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace		<b>Timing</b> <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent						

<b>Element Group:</b>	Decks					<b>Length:</b>	7.8 (m)		
<b>Element Name:</b>	Soffit - Thin Slab					<b>Width:</b>	3.9 (m)		
<b>Location:</b>						<b>Height:</b>			
<b>Element Description:</b>	Deteriorated Areas on Soffit.					<b>Count:</b>	0		
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	30.4 (sq.m)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	sq.m	0.00	22.4	5.0	3.0	<b>BCI TEV:</b> 3648.0	<b>BCI CEV:</b> 2256.0		
<b>Comments:</b>	Soffit top in new and excellent condition. Old soffit has delamination and scaling. 0.3m exposed rebar on east side.								
<b>Recommended work:</b>						<b>Maintenance Needs:</b>			
<b>Comments</b> Concrete patching.						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type</b> <input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace		<b>Timing</b> <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent							

<b>Element Group:</b>	Decks					<b>Length:</b>	8.6 (m)		
<b>Element Name:</b>	Wearing Surface					<b>Width:</b>	4.1 (m)		
<b>Location:</b>						<b>Height:</b>			
<b>Element Description:</b>	Asphalt Pavement over Structure.					<b>Count:</b>	1		
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	35.3 (sq.m)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	sq.m	0.00	26.6	5.2	3.5	<b>BCI TEV:</b> 882.5	<b>BCI CEV:</b> 550.75		
<b>Comments:</b>	Uneven asphalt is allowing water to pond. Edging absent creating gutter of 0.4m and some segregation at north end with exposed aggregate.								
<b>Recommended work:</b>						<b>Maintenance Needs:</b>			
<b>Comments</b> Repave deck.						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type</b> <input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace		<b>Timing</b> <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent							

<b>Element Group:</b>	Embankments & Streams					<b>Length:</b>	
<b>Element Name:</b>	Embankments					<b>Width:</b>	
<b>Location:</b>	West					<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	4
<b>Material:</b>						<b>Total Quantity:</b>	4.0 (each)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	each	0.00	4.0	0.00	0.00	<b>BCI TEV:</b> 4000.0	<b>BCI CEV:</b> 3000.0
<b>Comments:</b>	Embankments appear to be well-vegetated and stable. Underground water line visible. Erosion at Northwest Quadrant.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>							

<b>Element Group:</b>	Embankments & Streams					<b>Length:</b>	
<b>Element Name:</b>	Embankments					<b>Width:</b>	
<b>Location:</b>	East					<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	1
<b>Material:</b>						<b>Total Quantity:</b>	1.0 (each)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	each	0.00	1.0	0.00	0.00	<b>BCI TEV:</b> 1000.0	<b>BCI CEV:</b> 750.0
<b>Comments:</b>	Flow is unobstructed.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>							

<b>Element Group:</b>	Foundations					<b>Length:</b>	
<b>Element Name:</b>	Foundation (below ground level)					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	1
<b>Material:</b>						<b>Total Quantity:</b>	1.0
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
		0.00	0.00	1.0	0.00	<b>BCI TEV:</b>	<b>BCI CEV:</b>
<b>Comments:</b>	Foundations appear to be stable. Slightly undermined at footing interface from erosion.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>							

\* A quantity must be estimated using the appropriate unit (e.g. sq.m.). Percent should not be used.

Repair and Rehabilitation Required		Priority					Estimated Cost
Element	Repair and Rehabilitation Required	> 10 years	6 - 10 years	1 - 5 years	Now < 1 year	Urgent	
Deck	Repair concrete and repave			✓			\$140,000.00
Girders	Repair concrete Galvanize drainage			✓			\$5,000.00
Approaches - wearing surface	Repave approaches			✓			\$10,000.00
Utilities	Replace			✓			
Signs	Replace load capacity sign					✓	\$500.00
Wingwalls	Repair mortar loss			✓			\$20,000.00
<b>Total</b>							\$175,500.00

Associated Work	Comments	Estimated Cost
<b>Approaches</b>		
<b>Detours</b>		
<b>Traffic Control</b>		
<b>Utilities</b>		
<b>Eng Design and Supervision</b>		
<b>Environmental Study</b>		
<b>Other</b>		
<b>Contingencies</b>		
<b>Total</b>		



**Description: Looking South**



**Description: Looking North**



**Description: Looking East**



**Description: Elevation looking west**



**Description: North east wing wall**  
**Abutments / Wingwalls (4 Corners)**



**Description: South east wing wall**  
**Abutments / Wingwalls (4 Corners)**



**Description: Vegetation out of south west wing wall**  
**Abutments / Wingwalls (4 Corners)**



**Description: North end guiderails**  
**Approaches / Barriers**



**Description: South end guderail**

**Approaches / Barriers**



**Description: One lane sign at north end of bridge**

**Accessories / Signs**



**Description: Surface cracking maximum load sign at south end of bridge**

**Accessories / Signs**



**Barriers / Posts (East and West)**



**Barriers / Railing Systems (East and West)**



**Description: Exposed rebar on south side of east girder**  
**Beams/Main Longitudinal Elements / Girders**



**Description: Delaminated area.**

**Decks / Deck Top**



**Description: Looking south**

**Decks / Wearing Surface**



**Description: Spalling and scaling exposing rebar on west girder and west old soffit**  
**Decks / Soffit - Thin Slab**



**Decks / Soffit - Thin Slab**



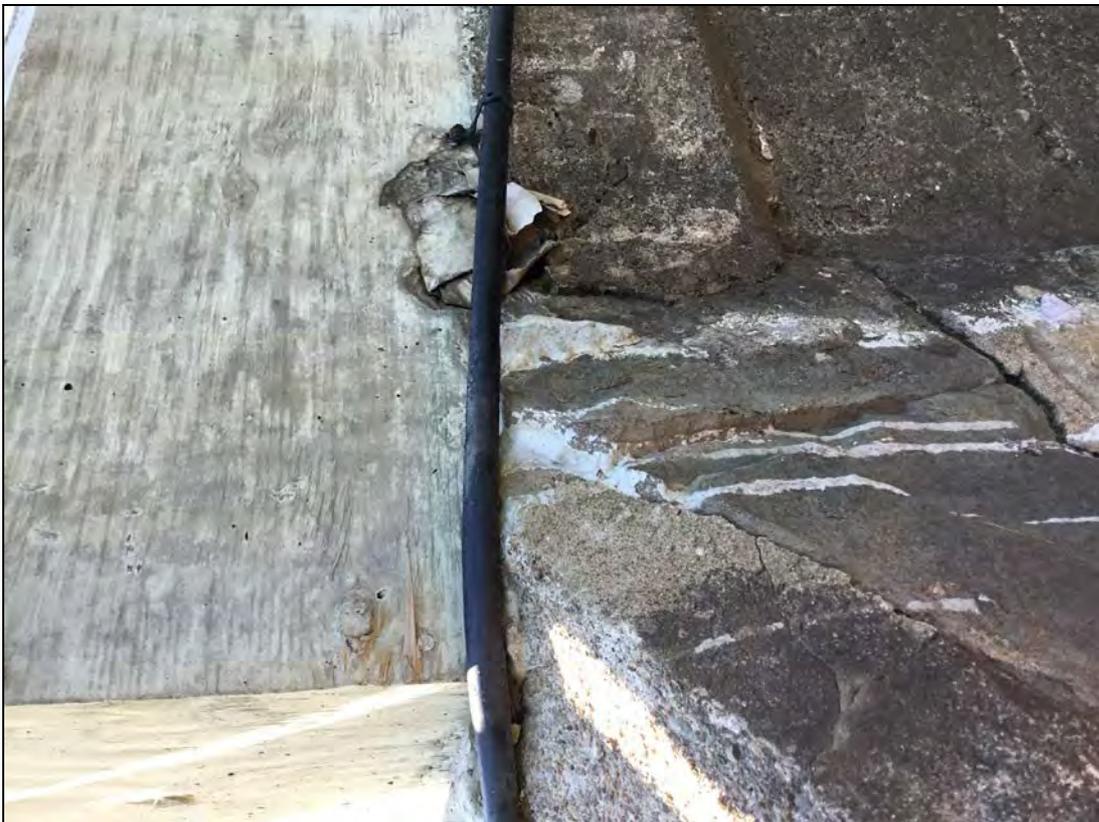
**Description: East**  
**Decks / Soffit - Thin Slab**



**Description: West**  
**Embankments & Streams / Embankments (West)**



**Description: East**  
**Embankments & Streams / Embankments (East)**



**Description: Abrasion on casing**  
**Accessories / Utilities (East and West)**



**Description: West utility line**

**Accessories / Utilities (East and West)**



**Description: Utility cable on east side**

**Accessories / Utilities (East and West)**

<b>Inventory Data:</b>			
<b>Structure Name</b>	<input type="text" value="Bridge 04 Stephenson Ward"/>		
<b>Main Hwy/Road #</b>	<input type="text" value=""/>	<input checked="" type="checkbox"/> On <input type="checkbox"/> Under	<b>Crossing Type:</b> <input checked="" type="checkbox"/> Navi. Water, <input checked="" type="checkbox"/> Non-Navi. Water, <input type="checkbox"/> Rail, <input type="checkbox"/> Road, <input type="checkbox"/> Ped., <input type="checkbox"/> Other, <input type="checkbox"/> Over water, <input type="checkbox"/> Over Road, <input type="checkbox"/> Under railway, <input type="checkbox"/> Unknown, <input type="checkbox"/> Over railway, <input type="checkbox"/> Under Road
<b>Hwy/Road Name</b>	<input type="text" value="South Lancelot Road"/>		
<b>Structure Location</b>	<input type="text" value="1.6km East of North Lancelot Road"/>		
<b>Latitude</b>	<input type="text" value="45.249052"/>	<b>Longitude</b>	<input type="text" value="-79.335626"/>
<b>Northing</b>	<input type="text" value=""/>	<b>Easting</b>	<input type="text" value=""/>
<b>Owner(s)</b>	<input type="text" value="Town of Huntsville"/>	<b>Heritage designation:</b> <input checked="" type="checkbox"/> Not Cons., <input type="checkbox"/> Cons./not App., <input type="checkbox"/> List/not Desig., <input type="checkbox"/> Desig./not List, <input type="checkbox"/> Desig. & List	
<b>MTO Region</b>	<input type="text" value="Northeastern"/>	<b>Road Class:</b> <input type="checkbox"/> Freeway, <input type="checkbox"/> Arterial, <input type="checkbox"/> Collector, <input type="checkbox"/> Collector Residential, <input type="checkbox"/> Collector Commercial, <input checked="" type="checkbox"/> Local, <input type="checkbox"/> Local Residential, <input type="checkbox"/> Local Commercial, <input type="checkbox"/> Rural Expressways, <input type="checkbox"/> Alleyways, <input type="checkbox"/> 4 or more lanes	
<b>MTO District</b>	<input type="text" value="Huntsville"/>	<b>Posted Speed</b>	<input type="text" value="60"/> <b>No. of Lanes</b> <input type="text" value="1"/>
<b>Old County</b>	<input type="text" value="Simcoe-Muskoka"/>	<b>AADT</b>	<input type="text" value="177.0"/> <b>% Trucks</b> <input type="text" value=""/>
<b>Geographic Twp.</b>	<input type="text" value="Stephenson"/>	<b>Inspection Route Sequence</b>	<input type="text" value=""/>
<b>Structure Type</b>	<input type="text" value="Concrete T-Beam"/>	<b>Interchange Number</b>	<input type="text" value=""/>
<b>Total Deck Length</b>	<input type="text" value="7.0"/> (m)	<b>Interchange Structure Number</b>	<input type="text" value=""/>
<b>Overall Str. Width</b>	<input type="text" value="5.2"/> (m)	<b>Min. Vertical Clearance</b>	<input type="text" value=""/> (m)
<b>Total Deck Area</b>	<input type="text" value="36.4"/> (sq.m)	<b>Special Routes:</b>	<input type="checkbox"/> Transit, <input type="checkbox"/> Truck, <input type="checkbox"/> School, <input type="checkbox"/> Bicycle, <input type="checkbox"/> Emergency, <input type="checkbox"/> Commuter
<b>Roadway Width</b>	<input type="text" value="4.0"/> (m)	<b>Detour Length Around Bridge</b>	<input type="text" value="5"/> (km)
<b>Skew Angle</b>	<input type="text" value="0"/> (Degrees)	<b>Direction of Structure</b>	<input type="text" value="East-West"/>
<b>No. of Spans</b>	<input type="text" value="1"/>	<b>Fill on Structure</b>	<input type="text" value=""/> (m)
<b>Span Lengths</b>	<input type="text" value="6.2"/> (m)		

<b>Historical Data:</b>			
<b>Year Built</b>	<input type="text" value="N/A"/>	<b>Year of Last Major Rehab.</b>	<input type="text" value="2010"/>
<b>Last OSIM Inspection</b>	<input type="text" value="2015"/>	<b>Last Evaluation</b>	<input type="text" value=""/>
<b>Last Enhanced OSIM Inspection</b>	<input type="text" value=""/>	<b>Current Load Limit</b>	<input type="text" value="/ /"/> (tonnes)
<b>Enhanced Access Equipment</b>	<input type="text" value=""/>	<b>Load Limit By-Law #</b>	<input type="text" value="/ /"/>
<b>Last Underwater Inspection</b>	<input type="text" value=""/>	<b>By-Law Expiry Date</b>	<input type="text" value=""/>
<b>Last Condition Survey</b>	<input type="text" value=""/>		
<b>Rehab History: (Date/description)</b>			
Balustrade railing replaced (Unknown date).			

Scheduled Improvements:	
<b>Regional Priority Number</b> <input style="width: 80px;" type="text"/>	<b>Programmed Work Year</b> <input style="width: 80px;" type="text"/>
<b><i>Nature of Program Work:</i></b>	

Appraisal Indices:		Comments
<b>Fatigue</b>		
<b>Seismic</b>		
<b>Scour</b>		
<b>Flood</b>		
<b>Geometrics</b>		
<b>Barrier</b>		
<b>Curb</b>		
<b>Load Capacity</b>		



<b>Overall Structure Notes:</b>	
<b>Recommended Work on Structure:</b>	Replace Structure
<b>Timing of Recommended Work:</b>	<input type="checkbox"/> Urgent, <input type="checkbox"/> Now < 1 year, <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> > 10 years
<b>Overall Comments:</b>	Structure is overall in poor condition
<b>Date of Next Inspection:</b>	2020

<b>Overall Bridge Condition:</b>	35.45
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Recommended inspections and Investigations	Due date	Priority	Comments
<b>Boat Inspection</b>			
<b>Bridge master</b>			
<b>Coating survey</b>			
<b>Detailed condition survey</b>			
<b>Evaluation</b>			
<b>Fatigue</b>			
<b>Monitor Settlements/Movements</b>			
<b>Seismic</b>			
<b>Substructure condition survey</b>			
<b>Underwater</b>			

**Suspected Performance Deficiencies**

- |                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li><b>01</b> Load carrying capacity</li> <li><b>02</b> Excessive deformations (deflections &amp; rotations)</li> <li><b>03</b> Continuing settlement</li> <li><b>04</b> Continuing movements</li> <li><b>05</b> Seized bearings</li> </ul>                                                | <ul style="list-style-type: none"> <li><b>06</b> Bearing not uniformly loaded/unstable</li> <li><b>07</b> Jammed expansion joint</li> <li><b>08</b> Pedestrian/vehicular hazard</li> <li><b>09</b> Rough riding surface</li> <li><b>10</b> Surface ponding</li> <li><b>11</b> Deck drainage</li> </ul>         | <ul style="list-style-type: none"> <li><b>12</b> Slippery surfaces</li> <li><b>13</b> Flooding/channel blockage</li> <li><b>14</b> Undermining of foundation</li> <li><b>15</b> Unstable embankments</li> <li><b>16</b> Other</li> <li><b>17</b> None</li> </ul>                      |
| <b>Maintenance Needs</b>                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li><b>01</b> Lift and Swing Bridge Maintenance</li> <li><b>02</b> Bridge Cleaning</li> <li><b>03</b> Bridge Handrail Maintenance</li> <li><b>04</b> Painting Steel Bridge Structures</li> <li><b>05</b> Bridge Deck Joint Repair</li> <li><b>06</b> Bridge Bearing Maintenance</li> </ul> | <ul style="list-style-type: none"> <li><b>07</b> Repair to Structural Steel</li> <li><b>08</b> Repair of Bridge Concrete</li> <li><b>09</b> Repair of Bridge Timber</li> <li><b>10</b> Bailey bridges - Maintenance</li> <li><b>11</b> Animal/Pest Control</li> <li><b>12</b> Bridge Surface Repair</li> </ul> | <ul style="list-style-type: none"> <li><b>13</b> Erosion Control at Bridges</li> <li><b>14</b> Concrete Sealing</li> <li><b>15</b> Rout and Seal</li> <li><b>16</b> Bridge Deck Drainage</li> <li><b>17</b> Scaling (Loose Concrete or ACR Steel)</li> <li><b>18</b> Other</li> </ul> |

### Element Data

<b>Element Group:</b>	Abutments					<b>Length:</b>	
<b>Element Name:</b>	Abutment walls					<b>Width:</b>	5.2 (m)
<b>Location:</b>	East and West					<b>Height:</b>	0.5 (m)
<b>Element Description:</b>						<b>Count:</b>	2
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	5.2 (sq.m)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	sq.m	0.00	0.00	2.8	2.4	<b>BCI TEV:</b> 4680.0	<b>BCI CEV:</b> 1008.0
<b>Comments:</b>	Limited inspection due to high water level. Severe concrete erosion at water level on southwest abutment at wingwall joint. Concrete scaling to high water mark exposing aggregate throughout.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<p><b>Comments</b></p> <p>Replace structure</p> <p><b>Type</b></p> <p><input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace</p> <p><b>Timing</b></p> <p><input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now &lt; 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent</p>						<p><input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent</p>	

<b>Element Group:</b>	Abutments					<b>Length:</b>	2.3 (m)	
<b>Element Name:</b>	Wingwalls					<b>Width:</b>		
<b>Location:</b>						<b>Height:</b>	0.63 (m)	
<b>Element Description:</b>						<b>Count:</b>	4	
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	5.7 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	0.00	0.7	5.0	<b>BCI TEV:</b> 1995.0	<b>BCI CEV:</b> 98.0	
<b>Comments:</b>	Pattern cracking with light efflorescence, hairline cracking and severe spalls at waterline with exposed aggregate. South wingwalls have severe deterioration and spalling at high water mark. South side delamination above high water mark.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<p><b>Comments</b></p> <p>Concrete repair and install scour protection.</p> <p><b>Type</b></p> <p><input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace</p>						<p><b>Timing</b></p> <p><input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now &lt; 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent</p>		
						<p><input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent</p>		

<b>Element Group:</b>	Accessories					<b>Length:</b>	
<b>Element Name:</b>	Signs					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>	Four hazard markers, two narrow crossing / one lane signs.					<b>Count:</b>	5
<b>Material:</b>	Steel					<b>Total Quantity:</b>	6.0
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	each	0.00	1.0	1.0	4.0	<b>BCI TEV:</b> 600.0	<b>BCI CEV:</b> 115.0
<b>Comments:</b>	Four object warning hazard markers present. Northwest sign bent and damaged. Southeast and northwest hazard sign have graffiti. One narrow warning sign on east side has graffiti on surface. West narrow bridge / one lane sign is bent over.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 18 - Other	
<b>Comments</b>						<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>						Replace damaged and defaced warning signs (3). Replace east narrow bridge / one lane sign.	

<b>Element Group:</b>	Approaches					<b>Length:</b>	
<b>Element Name:</b>	Barriers					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	0.6
<b>Element Description:</b>						<b>Count:</b>	0
<b>Material:</b>						<b>Total Quantity:</b>	0.0
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	08. Pedestrian/vehicular hazard	
	m	0.00	0.00	0.00	0.00	<b>BCI TEV:</b>	<b>BCI CEV:</b>
<b>Comments:</b>	None present. Should be added.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>						<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input checked="" type="checkbox"/> Urgent	
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace							

<b>Element Group:</b>	Approaches	<b>Length:</b>	6.0 (m)
<b>Element Name:</b>	Wearing surface	<b>Width:</b>	4.0 (m)
<b>Location:</b>	West approach.	<b>Height:</b>	
<b>Element Description:</b>		<b>Count:</b>	1
<b>Material:</b>	Gravel	<b>Total Quantity:</b>	24.0 (sq.m)
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>		<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>
	m	0.00	24.0
	<b>Fair</b>	<b>Poor*</b>	
	0.00	0.00	
	<b>BCI TEV:</b> 144.0		<b>BCI CEV:</b> 108.0
<b>Comments:</b>	Light wheel ruts on surface. Road has recently been regraded.		
<b>Recommended work:</b>		<b>Maintenance Needs:</b>	
<b>Comments</b>	<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years,		
<b>Type Timing</b>	<input type="checkbox"/> Urgent		

<b>Element Group:</b>	Approaches	<b>Length:</b>	6.0 (m)
<b>Element Name:</b>	Wearing surface	<b>Width:</b>	4.0 (m)
<b>Location:</b>	East approach.	<b>Height:</b>	(m)
<b>Element Description:</b>		<b>Count:</b>	1
<b>Material:</b>	Asphalt	<b>Total Quantity:</b>	24.0 (sq.m)
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>
<b>Protection System:</b>		<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>
	sq.m	0.00	0.00
	<b>Fair</b>	<b>Poor*</b>	
	0.00	24.0	
	<b>BCI TEV:</b> 144.0		<b>BCI CEV:</b>
<b>Comments:</b>	Wheel ruts and ravelling, limited inspection due to gravel / sand build up at approach.		
<b>Recommended work:</b>		<b>Maintenance Needs:</b>	
<b>Comments</b>	<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years,		
<b>Type</b>	<input type="checkbox"/> Urgent		
<b>Timing</b>	<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years,		
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair,	<input type="checkbox"/> Urgent		
<input checked="" type="checkbox"/> Replace	Clean sand from bridge and inspect wearing surface. High float road.		

<b>Element Group:</b>	Barriers	<b>Length:</b>	0.2 (m)				
<b>Element Name:</b>	Posts	<b>Width:</b>	0.2 (m)				
<b>Location:</b>	North and South	<b>Height:</b>	0.75 (m)				
<b>Element Description:</b>		<b>Count:</b>	22				
<b>Material:</b>	Cast In Place Concrete	<b>Total Quantity:</b>	22.0 (each)				
<b>Element Type:</b>	Concrete Balustrade	<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	08. Pedestrian/vehicular hazard	
	each	0.00	10.0	2.92	2.92	<b>BCI TEV:</b> 4400.0	<b>BCI CEV:</b> 1733.6
<b>Comments:</b>	Damage from collision at northeast side. Moderate scaling and spalling, disintegration and exposed aggregate.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b> Replace with rail system to current code					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>		<b>Timing</b>					
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace		<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input checked="" type="checkbox"/> Urgent					

<b>Element Group:</b>	Barriers	<b>Length:</b>	7.0 (m)				
<b>Element Name:</b>	Railing Systems	<b>Width:</b>	0.3 (m)				
<b>Location:</b>	North and South	<b>Height:</b>	0.1 (m)				
<b>Element Description:</b>	South Railing Recently Rehabilitated.	<b>Count:</b>	2				
<b>Material:</b>	Cast-In-Place Concrete	<b>Total Quantity:</b>	14.0 (m)				
<b>Element Type:</b>	Concrete Balustrade	<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	08. Pedestrian/vehicular hazard	
	m	0.00	0.00	14.0	0.00	<b>BCI TEV:</b> 2800.0	<b>BCI CEV:</b> 1120.0
<b>Comments:</b>	Minor wear, small spalling on bottom edge of both.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b> Replace with railing system to current code					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input checked="" type="checkbox"/> Urgent		
<b>Type</b>		<b>Timing</b>					
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace		<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input checked="" type="checkbox"/> Urgent					

<b>Element Group:</b>	Beams/Main Longitudinal Elements	<b>Length:</b>	6.2 (m)				
<b>Element Name:</b>	Girders	<b>Width:</b>	0.25				
<b>Location:</b>	Middle	<b>Height:</b>	0.46 (m)				
<b>Element Description:</b>		<b>Count:</b>	4				
<b>Material:</b>	Cast In Place Concrete	<b>Total Quantity:</b>	29.0 (sq.m)				
<b>Element Type:</b>	T-Type	<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	sq.m	0.00	0.00	26.7	2.3	<b>BCI TEV:</b> 5800.0	<b>BCI CEV:</b> 2136.0
<b>Comments:</b>	Girders have cold-joints, and narrow shear cracking on at least five (5) of the haunches with light efflorescence, and light scaling due to high water level. Cracks are near horizontal and wide (>1mm).						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b> Concrete repair.					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>		<b>Timing</b>					
<input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace		<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent					

<b>Element Group:</b>	Decks	<b>Length:</b>	7.0 (m)				
<b>Element Name:</b>	Deck Top	<b>Width:</b>	4.0 (m)				
<b>Location:</b>		<b>Height:</b>					
<b>Element Description:</b>		<b>Count:</b>	1				
<b>Material:</b>	Cast In Place Concrete	<b>Total Quantity:</b>	28.0 (sq.m)				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	sq.m	0.00	0.00	12.0	16.0	<b>BCI TEV:</b> 3360.0	<b>BCI CEV:</b> 576.0
<b>Comments:</b>	Exposed Concrete Deck Top. Gravel tracked on to exposed deck top on east side. Limited inspection due to partial asphalt coverage at East side. Severe longitudinal crack, two moderate longitudinal cracks reaching to the center line of the bridge.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b> Concrete patch, waterproof & pave					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>		<b>Timing</b>					
<input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace		<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent					

<b>Element Group:</b>	Decks					<b>Length:</b>		
<b>Element Name:</b>	Drainage System					<b>Width:</b>		
<b>Location:</b>						<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	6	
<b>Material:</b>						<b>Total Quantity:</b>	6.0	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	11. Deck drainage		
	each	0.00	0.00	0.00	6.0	<b>BCI TEV:</b>		<b>BCI CEV:</b>
<b>Comments:</b>	Drains hole outlets are flush with soffit causing the soffit to be wet. Delamination around drain opening, water seepage under curb cracks. Drains are clear of debris.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b> Install drains that extend beyond girders.						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input checked="" type="checkbox"/> Urgent		
<b>Type</b>		<b>Timing</b>						
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace		<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input checked="" type="checkbox"/> Urgent						

<b>Element Group:</b>	Decks					<b>Length:</b>	6.2 (m)	
<b>Element Name:</b>	Soffit - Thin Slab					<b>Width:</b>	4.0 (m)	
<b>Location:</b>	Interior					<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	1	
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	24.8 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	0.00	24.0	0.8	<b>BCI TEV:</b> 2976.0		<b>BCI CEV:</b> 1152.0
<b>Comments:</b>	Concrete is wet caused by deck drains which are flush with soffit. Moderate spalls with exposed rebar.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b> Concrete patch repair.						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>		<b>Timing</b>						
<input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace		<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent						

<b>Element Group:</b>	Embankments & Streams					<b>Length:</b>	
<b>Element Name:</b>	Embankments					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	4
<b>Material:</b>						<b>Total Quantity:</b>	4.0
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	each	0.00	3.0	1.0	0.00	<b>BCI TEV: 4000.0</b>	<b>BCI CEV: 2650.0</b>
<b>Comments:</b>	Well vegetated and stable, exception with the Southwest quadrant where there is a runoff pathway across granular surface with slight erosion.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input checked="" type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>						Install erosion control	

<b>Element Group:</b>	Embankments & Streams					<b>Length:</b>	
<b>Element Name:</b>	Streams and Waterways					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	1
<b>Material:</b>						<b>Total Quantity:</b>	1.0
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	all	0.00	1.0	0.00	0.00	<b>BCI TEV: 1000.0</b>	<b>BCI CEV: 750.0</b>
<b>Comments:</b>	Water level is high with 0.3m of clearance between stream and girders. Clear-and free flowing. Some obstructive debris at north side under water line at low level.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>							

<b>Element Group:</b>	Sidewalks/curbs	<b>Length:</b>	7.0 (m)				
<b>Element Name:</b>	Curbs	<b>Width:</b>	0.5 (m)				
<b>Location:</b>	North and South	<b>Height:</b>	0.15 (m)				
<b>Element Description:</b>		<b>Count:</b>	2				
<b>Material:</b>	Cast-In-Place Concrete	<b>Total Quantity:</b>	9.8 (sq.m)				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	08. Pedestrian/vehicular hazard	
	sq.m	0.00	0.00	0.00	9.8	<b>BCI TEV:</b> 392.0	<b>BCI CEV:</b>
<b>Comments:</b>	Cracking on curb fascia and top of curb. Heavy spalling on north curb top. Cracking on south curb top. Light spalling and heavy scaling on curb interiors.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<p><b>Comments</b></p> <p>Replace curb</p> <p><b>Type</b></p> <p><input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace</p> <p><b>Timing</b></p> <p><input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now &lt; 1 year, <input type="checkbox"/> 6 - 10 years, <input checked="" type="checkbox"/> Urgent</p>					<p><input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent</p>		

\* A quantity must be estimated using the appropriate unit (e.g. sq.m.). Percent should not be used.

Repair and Rehabilitation Required		Priority					Estimated Cost
Element	Repair and Rehabilitation Required	> 10 years	6 - 10 years	1 - 5 years	Now < 1 year	Urgent	
Structure	Replace Structure		✓				\$450,000.00
Embankments	Install erosion control			✓			\$5,000.00
Abutment walls	Replace			✓			\$100,000.00
Curb	Replace curb					✓	\$5,000.00
Girders	Concrete patch			✓			\$10,000.00
Deck	Concrete patch, waterproof and pave			✓			\$35,000.00
Deck drains	Install drains that extend beyond the girders					✓	\$5,000.00
Barriers	Replace to current code and install at approach					✓	\$15,000.00
Approaches Wearing surface (East)	Repave			✓			\$10,000.00
Signs	Replace damaged and defaced hazard signs. Replace east narrow/ one lane sign				✓		\$2,000.00
Wingwalls	Concrete repair and install scour protection			✓			\$15,000.00
<b>Total</b>							\$652,000.00

Associated Work	Comments	Estimated Cost
<b>Approaches</b>		
<b>Detours</b>		
<b>Traffic Control</b>		
<b>Utilities</b>		
<b>Eng Design and Supervision</b>		
<b>Environmental Study</b>		
<b>Other</b>		
<b>Contingencies</b>		
<b>Total</b>		



**Description: Looking south**



**Description: Looking south**



**Description: Looking west**



**Description: E wearing surface**

**Approaches / Wearing surface (East approach.)**



**Description: West**  
**Abutments / Abutment walls (East and West)**



**Description: East**  
**Abutments / Abutment walls (East and West)**



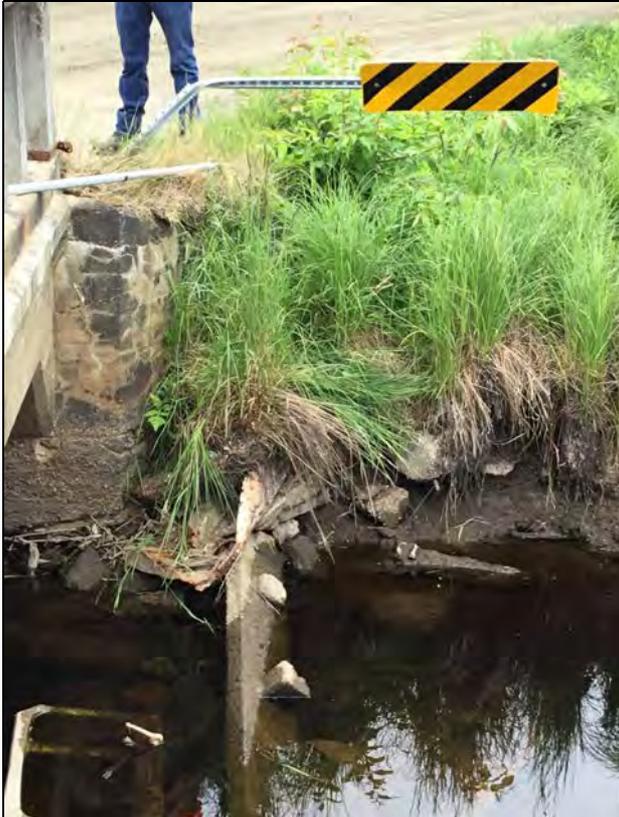
**Description: SE**  
**Abutments / Wingwalls**



**Description: NE**  
**Abutments / Wingwalls**



**Description: SW**  
**Abutments / Wingwalls**



**Description: NW**  
**Abutments / Wingwalls**



**Description: W approach**

**Approaches / Wearing surface (West approach.)**



**Description: Looking W**

**Approaches / Barriers**



**Description: Looking E**  
**Approaches / Barriers**



**Description: N side**  
**Accessories / Signs**



**Description: N Typical**  
**Barriers / Posts (North and South)**



**Description: S Top View**  
**Barriers / Railing Systems (North and South)**



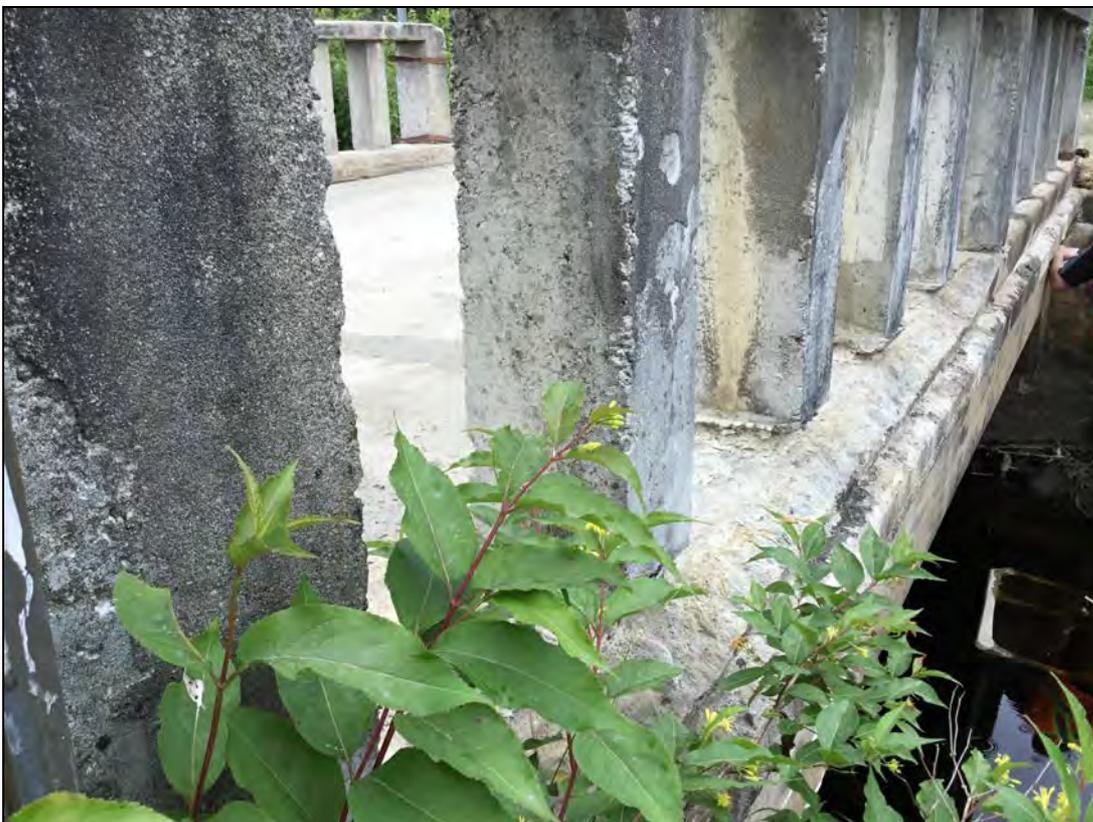
**Description: S spalling on bottom edge**  
**Barriers / Railing Systems (North and South)**



**Description: S curb**  
**Sidewalks/curbs / Curbs (North and South)**



**Description: S exterior**  
**Sidewalks/curbs / Curbs (North and South)**



**Description: N exterior curb**  
**Sidewalks/curbs / Curbs (North and South)**



**Description: N curb**  
**Sidewalks/curbs / Curbs (North and South)**



**Description: Typical Deck Drainage**  
**Decks / Drainage System**



**Description: Looking E**  
**Decks / Deck Top**



**Description: Looking W**  
**Decks / Deck Top**



**Description: NE**  
**Decks / Soffit - Thin Slab (Interior)**



**Description: NE**  
**Decks / Soffit - Thin Slab (Interior)**



**Description: N embankments**  
**Embankments & Streams / Embankments**



**Description: WE embankment**  
**Embankments & Streams / Embankments**



**Description: SE embankment**

**Embankments & Streams / Embankments**



**Description: N side**

**Embankments & Streams / Streams and Waterways**



**Description: NE 3rd in  
Beams/Main Longitudinal Elements / Girders (Middle)**



**Description: NE 2nd in  
Beams/Main Longitudinal Elements / Girders (Middle)**



**Description: NW 1st**

**Beams/Main Longitudinal Elements / Girders (Middle)**

Inventory Data:			
<b>Structure Name</b>	<input type="text" value="Bridge 05 Chaffey Ward"/>		
<b>Main Hwy/Road #</b>	<input type="text"/>	<input checked="" type="checkbox"/> On <input type="checkbox"/> Under	<b>Crossing Type:</b> <input checked="" type="checkbox"/> Navi. Water, <input type="checkbox"/> Non-Navi. Water, <input type="checkbox"/> Rail, <input type="checkbox"/> Road, <input type="checkbox"/> Ped., <input type="checkbox"/> Other, <input type="checkbox"/> Over water, <input type="checkbox"/> Over Road, <input type="checkbox"/> Under railway, <input type="checkbox"/> Unknown, <input type="checkbox"/> Over railway, <input type="checkbox"/> Under Road
<b>Hwy/Road Name</b>	<input type="text" value="Old North Road"/>		
<b>Structure Location</b>	<input type="text" value="2km North of Highway 11"/>		
<b>Latitude</b>	<input n"="" type="text" value="45° 22' 28"/>	<b>Longitude</b>	<input type="text" value="79° 14' 4" w"=""/>
<b>Northing</b>	<input type="text"/>	<b>Easting</b>	<input type="text"/>
<b>Owner(s)</b>	<input type="text" value="Town of Huntsville"/>	<b>Heritage designation:</b> <input checked="" type="checkbox"/> Not Cons., <input type="checkbox"/> Cons./not App., <input type="checkbox"/> List/not Desig., <input type="checkbox"/> Desig./not List, <input type="checkbox"/> Desig. & List	
<b>MTO Region</b>	<input type="text" value="Northeastern"/>	<b>Road Class:</b> <input type="checkbox"/> Freeway, <input type="checkbox"/> Arterial, <input checked="" type="checkbox"/> Collector, <input type="checkbox"/> Collector Residential, <input type="checkbox"/> Collector Commercial, <input type="checkbox"/> Local, <input type="checkbox"/> Local Residential, <input type="checkbox"/> Local Commercial, <input type="checkbox"/> Rural Expressways, <input type="checkbox"/> Alleyways, <input type="checkbox"/> 4 or more lanes	
<b>MTO District</b>	<input type="text" value="Huntsville"/>	<b>Posted Speed</b>	<input type="text" value="60"/> <b>No. of Lanes</b> <input type="text" value="1"/>
<b>Old County</b>	<input type="text" value="Simcoe-Muskoka"/>	<b>AADT</b>	<input type="text" value="750.0"/> <b>% Trucks</b> <input type="text"/>
<b>Geographic Twp.</b>	<input type="text" value="Chaffey"/>	<b>Inspection Route Sequence</b>	<input type="text"/>
<b>Structure Type</b>	<input type="text" value="Concrete Slab on Precast Girders"/>	<b>Interchange Number</b>	<input type="text"/>
<b>Total Deck Length</b>	<input type="text" value="24.6"/> (m)	<b>Interchange Structure Number</b>	<input type="text"/>
<b>Overall Str. Width</b>	<input type="text" value="5.5"/> (m)	<b>Min. Vertical Clearance</b>	<input type="text"/> (m)
<b>Total Deck Area</b>	<input type="text" value="135.3"/> (sq.m)	<b>Special Routes:</b>	<input type="checkbox"/> Transit, <input type="checkbox"/> Truck, <input type="checkbox"/> School, <input type="checkbox"/> Bicycle, <input type="checkbox"/> Emergency, <input type="checkbox"/> Commuter
<b>Roadway Width</b>	<input type="text" value="4.3"/> (m)	<b>Detour Length Around Bridge</b>	<input type="text" value="5"/> (km)
<b>Skew Angle</b>	<input type="text" value="0"/> (Degrees)	<b>Direction of Structure</b>	<input type="text" value="West to East"/>
<b>No. of Spans</b>	<input type="text" value="1"/>	<b>Fill on Structure</b>	<input type="text"/> (m)
<b>Span Lengths</b>	<input type="text" value="22.4"/> (m)		

Historical Data:			
<b>Year Built</b>	<input type="text" value="1970"/>	<b>Year of Last Major Rehab.</b>	<input type="text"/>
<b>Last OSIM Inspection</b>	<input type="text" value="2015"/>	<b>Last Evaluation</b>	<input type="text"/>
<b>Last Enhanced OSIM Inspection</b>	<input type="text"/>	<b>Current Load Limit</b>	<input type="text" value="/ /"/> (tonnes)
<b>Enhanced Access Equipment</b>	<input type="text"/>	<b>Load Limit By-Law #</b>	<input type="text" value="/ /"/>
<b>Last Underwater Inspection</b>	<input type="text"/>	<b>By-Law Expiry Date</b>	<input type="text"/>
<b>Last Condition Survey</b>	<input type="text"/>		
<b>Rehab History: (Date/description)</b>			

Scheduled Improvements:	
<b>Regional Priority Number</b>	<input type="text"/>
<b>Programmed Work Year</b>	<input type="text"/>
<b><i>Nature of Program Work:</i></b>	

Appraisal Indices:		Comments
<b>Fatigue</b>	<input type="text"/>	
<b>Seismic</b>	<input type="text"/>	
<b>Scour</b>	<input type="text"/>	
<b>Flood</b>	<input type="text"/>	
<b>Geometrics</b>	<input type="text"/>	
<b>Barrier</b>	<input type="text"/>	
<b>Curb</b>	<input type="text"/>	
<b>Load Capacity</b>	<input type="text"/>	

Field Inspection Information:			
<b>Date of Inspection:</b>	July 3, 2018	<b>Inspection Type</b>	OSIM
<b>Inspector:</b>	Sean Wetmore		
<b>Others in Party:</b>	Ben Belfry		
<b>Access Equipment Used:</b>	Hammer tape waders		
<b>Weather:</b>	Sunny		
<b>Temperature:</b>	32.0 °C		

Upcoming Inspections and Investigations:		
Due date	Priority	Comments

Additional Investigations Required:	Priority		
	None	Normal	Urgent
<b>Material Condition Survey</b>	✓		
<b>Detailed Deck Condition Survey:</b>	✓		
<b>Non-destructive Delamination Survey of Asphalt-Covered Deck:</b>	✓		
<b>Concrete Substructure Condition Survey:</b>	✓		
<b>Detailed Coating Condition Survey:</b>	✓		
<b>Detailed Timber Investigation</b>	✓		
<b>Post-Tensioned Strand Investigation</b>	✓		
<b>Underwater Investigation:</b>	✓		
<b>Fatigue Investigation:</b>	✓		
<b>Seismic Investigation:</b>	✓		
<b>Structure Evaluation:</b>	✓		
<b>Monitoring</b>	✓		
<b>Monitoring of Deformations, Settlements and Movements:</b>	✓		
<b>Monitoring Crack Widths:</b>	✓		

**Investigation Notes:**  
*None*

<b>Overall Structure Notes:</b>	
<b>Recommended Work on Structure:</b>	
<b>Timing of Recommended Work:</b>	<input type="checkbox"/> Urgent, <input type="checkbox"/> Now < 1 year, <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> > 10 years
<b>Overall Comments:</b>	Overall structure is in good condtion
<b>Date of Next Inspection:</b>	2020

<b>Overall Bridge Condition:</b>	64.85
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Recommended inspections and Investigations	Due date	Priority	Comments
<b>Boat Inspection</b>			
<b>Bridge master</b>			
<b>Coating survey</b>			
<b>Detailed condition survey</b>			
<b>Evaluation</b>			
<b>Fatigue</b>			
<b>Monitor Settlements/Movements</b>			
<b>Seismic</b>			
<b>Substructure condition survey</b>			
<b>Underwater</b>			

**Suspected Performance Deficiencies**

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>01</b> Load carrying capacity</p> <p><b>02</b> Excessive deformations (deflections &amp; rotations)</p> <p><b>03</b> Continuing settlement</p> <p><b>04</b> Continuing movements</p> <p><b>05</b> Seized bearings</p> <p><b>Maintenance Needs</b></p> <p><b>01</b> Lift and Swing Bridge Maintenance</p> <p><b>02</b> Bridge Cleaning</p> <p><b>03</b> Bridge Handrail Maintenance</p> <p><b>04</b> Painting Steel Bridge Structures</p> <p><b>05</b> Bridge Deck Joint Repair</p> <p><b>06</b> Bridge Bearing Maintenance</p> | <p><b>06</b> Bearing not uniformly loaded/unstable</p> <p><b>07</b> Jammed expansion joint</p> <p><b>08</b> Pedestrian/vehicular hazard</p> <p><b>09</b> Rough riding surface</p> <p><b>10</b> Surface ponding</p> <p><b>11</b> Deck drainage</p> <p><b>07</b> Repair to Structural Steel</p> <p><b>08</b> Repair of Bridge Concrete</p> <p><b>09</b> Repair of Bridge Timber</p> <p><b>10</b> Bailey bridges - Maintenance</p> <p><b>11</b> Animal/Pest Control</p> <p><b>12</b> Bridge Surface Repair</p> | <p><b>12</b> Slippery surfaces</p> <p><b>13</b> Flooding/channel blockage</p> <p><b>14</b> Undermining of foundation</p> <p><b>15</b> Unstable embankments</p> <p><b>16</b> Other</p> <p><b>17</b> None</p> <p><b>13</b> Erosion Control at Bridges</p> <p><b>14</b> Concrete Sealing</p> <p><b>15</b> Rout and Seal</p> <p><b>16</b> Bridge Deck Drainage</p> <p><b>17</b> Scaling (Loose Concrete or ACR Steel)</p> <p><b>18</b> Other</p> |
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### Element Data

<b>Element Group:</b>	Abutments					<b>Length:</b>	
<b>Element Name:</b>	Abutment Walls					<b>Width:</b>	6.1 (m)
<b>Location:</b>	East and West					<b>Height:</b>	4.7 (m)
<b>Element Description:</b>	North east and south west					<b>Count:</b>	2
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	57.3 (sq.m)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	sq.m	0.00	28.6	28.7	0.1	<b>BCI TEV:</b> 51570.0	<b>BCI CEV:</b> 29637.0
<b>Comments:</b>	Older than the superstructure. Medium to heavy spalling scaling on south west wall. Narrow cracking has been repaired on north east wall. Small spalls( 100mm), bottom of footing is not exposed and has no undermining.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years,		
<b>Type Timing</b>					<input type="checkbox"/> Urgent		

<b>Element Group:</b>	Abutments					<b>Length:</b>	
<b>Element Name:</b>	Ballast Walls					<b>Width:</b>	6.2 (m)
<b>Location:</b>	East and West					<b>Height:</b>	1.5 (m)
<b>Element Description:</b>	Ballast walls					<b>Count:</b>	2
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	18.6 (sq.m)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	sq.m	0.00	0.00	18.6	0.00	<b>BCI TEV:</b> 6510.0	<b>BCI CEV:</b> 2604.0
<b>Comments:</b>	Limited inspection due to height above water. Medium scaling throughout. Evidence of water leakage through deck joints, and efflorescence by joint on north side						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years,		
<b>Type Timing</b>					<input type="checkbox"/> Urgent		

<b>Element Group:</b>	Abutments					<b>Length:</b>	
<b>Element Name:</b>	Bearings					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>	Girder Bearings on Top of Abutment Wall.					<b>Count:</b>	6
<b>Material:</b>	Other					<b>Total Quantity:</b>	6.0
<b>Element Type:</b>	Elastomeric					<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	each	0.00	6.0	0.00	0.00	<b>BCI TEV:</b> 6000.0	<b>BCI CEV:</b> 4500.0
<b>Comments:</b>	Rubber. Limited inspection due to height above water. Inspected sw beard no more in good condition.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>							

<b>Element Group:</b>	Abutments					<b>Length:</b>	3.0 (m)
<b>Element Name:</b>	Wingwalls					<b>Width:</b>	
<b>Location:</b>	Northwest and Southwest					<b>Height:</b>	5.0 (m)
<b>Element Description:</b>	Crack in Cold Joint At Southwest Wingwall.					<b>Count:</b>	2
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	30.0 (sq.m)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	sq.m	0.00	23.8	6.0	0.2	<b>BCI TEV:</b> 10500.0	<b>BCI CEV:</b> 7087.5
<b>Comments:</b>	Localized spalling and light to medium scaling.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type</b> <input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace							
<b>Timing</b> <input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent							

<b>Element Group:</b>	Abutments					<b>Length:</b>	3.2 (m)	
<b>Element Name:</b>	Wingwalls					<b>Width:</b>		
<b>Location:</b>	Northeast and Southeast					<b>Height:</b>	6.2 (m)	
<b>Element Description:</b>	Northeast Wingwall with Cracks and Efflorescence.					<b>Count:</b>	2	
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	39.7 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	35.7	4.0	1.0	<b>BCI TEV:</b> 13895.0	<b>BCI CEV:</b> 9931.25	
<b>Comments:</b>	Light scaling. medium to wide cracks on north west wing walls with vegetation growth. localized spalling. Light efflorescence							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Accessories					<b>Length:</b>		
<b>Element Name:</b>	Signs					<b>Width:</b>		
<b>Location:</b>	Both sides extending 30m back for one lane sign.					<b>Height:</b>		
<b>Element Description:</b>	Bridge ices (2), one lane (2), and hazard (4).					<b>Count:</b>	8	
<b>Material:</b>						<b>Total Quantity:</b>	8.0 (each)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	each	0.00	8.0	0.00	0.00	<b>BCI TEV:</b> 800.0	<b>BCI CEV:</b> 600.0	
<b>Comments:</b>	Four Hazard warning signs, One bridge Ices sign, and Two Narrow Lane signs							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Approaches					<b>Length:</b>	20.0 (m)	
<b>Element Name:</b>	Barriers					<b>Width:</b>		
<b>Location:</b>	All Quadrants					<b>Height:</b>		
<b>Element Description:</b>	SBGR					<b>Count:</b>	0	
<b>Material:</b>	Steel					<b>Total Quantity:</b>	75.0 (m)	
<b>Element Type:</b>	Steel Flex Beam on Wood Post					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	m	0.00	65.0	6.5	3.5	<b>BCI TEV:</b> 15000.0	<b>BCI CEV:</b> 10270.0	
<b>Comments:</b>	Minor vehicle impact damage at northeast rail. Impact damage South East rail with gash 1m long compromising beams strength. Buried end treatments, rotated blocks, substandard connection, worn coating and light corrosion							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b> Replace damaged guide rails and install end treatments. Upgrade structure connection at next major rehab.						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>		<b>Timing</b>						
<input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace		<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input checked="" type="checkbox"/> Urgent						

<b>Element Group:</b>	Approaches					<b>Length:</b>	6.0 (m)	
<b>Element Name:</b>	Wearing surface					<b>Width:</b>	4.3 (m)	
<b>Location:</b>	East and West					<b>Height:</b>		
<b>Element Description:</b>	Asphalt approach meeting ballast wall					<b>Count:</b>	2	
<b>Material:</b>	Asphalt					<b>Total Quantity:</b>	51.6 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	50.0	0.8	0.8	<b>BCI TEV:</b> 309.6	<b>BCI CEV:</b> 226.92	
<b>Comments:</b>	Light potholes throughout. Light patches with depressions, edge cracking, scaling on NE side. Cold patched potholes at South side beginning to stake no at bridge street interface. edging repair at south west side of road.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Barriers	<b>Length:</b>	24.5 (m)
<b>Element Name:</b>	Barrier/Parapet Walls	<b>Width:</b>	
<b>Location:</b>	Exterior	<b>Height:</b>	0.6 (m)
<b>Element Description:</b>	Cip concrete	<b>Count:</b>	2
<b>Material:</b>	Cast-In-Place Concrete	<b>Total Quantity:</b>	29.4 (sq.m)
<b>Element Type:</b>	Parapet Wall with Two Rails	<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>		<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>
	sq.m	0.00	29.4
	<b>Fair</b>	<b>Poor*</b>	
	0.00	0.00	
	<b>BCI TEV: 2940.0</b>		<b>BCI CEV: 2205.0</b>
<b>Comments:</b>	Barriers in good condition, mild weathering.		
<b>Recommended work:</b>		<b>Maintenance Needs:</b>	
<b>Comments</b>	<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>			

<b>Element Group:</b>	Barriers	<b>Length:</b>	24.5 (m)
<b>Element Name:</b>	Barrier/Parapet Walls	<b>Width:</b>	0.2 (m)
<b>Location:</b>	Interior	<b>Height:</b>	0.6 (m)
<b>Element Description:</b>		<b>Count:</b>	2
<b>Material:</b>	Cast-In-Place Concrete	<b>Total Quantity:</b>	39.2 (sq.m)
<b>Element Type:</b>	Parapet Wall with Two Rails	<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>		<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>
	sq.m	0.00	39.0
	<b>Fair</b>	<b>Poor*</b>	
	0.1	0.1	
	<b>BCI TEV: 3920.0</b>		<b>BCI CEV: 2929.0</b>
<b>Comments:</b>	Minor damage and scraping. Hairline cracking.		
<b>Recommended work:</b>		<b>Maintenance Needs:</b>	
<b>Comments</b>	<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>			

<b>Element Group:</b>	Barriers					<b>Length:</b>	24.0 (m)	
<b>Element Name:</b>	Hand Railings					<b>Width:</b>		
<b>Location:</b>	North and South					<b>Height:</b>		
<b>Element Description:</b>	Dual steel the with end cap and metal brackets					<b>Count:</b>	2	
<b>Material:</b>	Steel					<b>Total Quantity:</b>	48.0 (m)	
<b>Element Type:</b>	Double Railing					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	m	0.00	42.0	4.0	2.0	<b>BCI TEV:</b> 4800.0	<b>BCI CEV:</b> 3310.0	
<b>Comments:</b>	Railings in good condition. Galvanized coating is deteriorating, mild corrosion, and end cap damage at northwest quadrant.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 3 - Bridge Handrail Maintenance		
<b>Comments</b>						<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>						Replace broken end caps on hand rails.		

<b>Element Group:</b>	Beams/Main Longitudinal Elements					<b>Length:</b>	20.6 (m)	
<b>Element Name:</b>	Girders					<b>Width:</b>	0.56 (m)	
<b>Location:</b>	Middle					<b>Height:</b>	1.14 (m)	
<b>Element Description:</b>	Bottom Flange of Middle Girder.					<b>Count:</b>	3	
<b>Material:</b>	Precast Concrete					<b>Total Quantity:</b>	56.8 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	56.8	0.00	0.00	<b>BCI TEV:</b> 11360.0	<b>BCI CEV:</b> 8520.0	
<b>Comments:</b>	Good Condition.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Beams/Main Longitudinal Elements	<b>Length:</b>	20.0 (m)		
<b>Element Name:</b>	Girders	<b>Width:</b>	0.56 (m)		
<b>Location:</b>	East and west length ends	<b>Height:</b>	1.14 (m)		
<b>Element Description:</b>	Concrete Girder Ends.	<b>Count:</b>	0		
<b>Material:</b>	Precast Concrete	<b>Total Quantity:</b>	113.6 (sq.m)		
<b>Element Type:</b>	I-Beam or Girders	<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>		<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>
	sq.m	0.00	113.6	0.00	0.00
		<b>BCI TEV:</b> 22720.0	<b>BCI CEV:</b> 17040.0		
<b>Comments:</b>	Good condition. Graffiti on east girder on outside.				
<b>Recommended work:</b>			<b>Maintenance Needs:</b>		
<b>Comments</b>			<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>					

<b>Element Group:</b>	Decks	<b>Length:</b>	24.5 (m)		
<b>Element Name:</b>	Deck Top	<b>Width:</b>	5.5 (m)		
<b>Location:</b>		<b>Height:</b>			
<b>Element Description:</b>	Concrete deck top	<b>Count:</b>	1		
<b>Material:</b>	Cast In Place Concrete	<b>Total Quantity:</b>	134.8 (sq.m)		
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>		<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>
	sq.m	0.00	134.8	0.00	0.00
		<b>BCI TEV:</b> 16176.0	<b>BCI CEV:</b> 12132.0		
<b>Comments:</b>	Exposed concrete deck top. Minor wear at the centerline.				
<b>Recommended work:</b>			<b>Maintenance Needs:</b>		
<b>Comments</b>			<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>			Clean bridge deck of sediment.		

<b>Element Group:</b>	Decks	<b>Length:</b>	
<b>Element Name:</b>	Drainage System	<b>Width:</b>	
<b>Location:</b>	Top of deck	<b>Height:</b>	
<b>Element Description:</b>	Steel pipe with rebar grate	<b>Count:</b>	4
<b>Material:</b>	Steel	<b>Total Quantity:</b>	6.0
<b>Element Type:</b>	Metal Drain Pipes	<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>	Hot-Dipped Galvanized	<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>
	each	0.00	0.00
	<b>Fair</b>	<b>Poor*</b>	
	4.0	0.00	
		<b>BCI TEV:</b>	<b>BCI CEV:</b>
<b>Comments:</b>	Require extensions to direct away from girders but are clear and free flowing.		
<b>Recommended work:</b>		<b>Maintenance Needs:</b>	
<b>Comments</b>	<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>			

<b>Element Group:</b>	Decks	<b>Length:</b>	20.5 (m)
<b>Element Name:</b>	Soffit - Thin Slab	<b>Width:</b>	1.0 (m)
<b>Location:</b>	Exterior/Fascia	<b>Height:</b>	0.6 (m)
<b>Element Description:</b>		<b>Count:</b>	2
<b>Material:</b>	Cast In Place Concrete	<b>Total Quantity:</b>	32.8 (sq.m)
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>
<b>Protection System:</b>		<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>
	sq.m	0.00	32.0
	<b>Fair</b>	<b>Poor*</b>	
	0.8	0.00	
		<b>BCI TEV:</b> 3936.0	<b>BCI CEV:</b> 2918.4
<b>Comments:</b>	Light scaling, hairline cracking, few bug holes, and small amounts of efflorescence at mid-span on south side of exterior soffit		
<b>Recommended work:</b>		<b>Maintenance Needs:</b>	
<b>Comments</b>	<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>			

<b>Element Group:</b>	Decks	<b>Length:</b>	2.0 (m)		
<b>Element Name:</b>	Soffit - Thin Slab	<b>Width:</b>	4.9 (m)		
<b>Location:</b>	East and West Ends	<b>Height:</b>			
<b>Element Description:</b>	No Visible Deficiencies on Concrete Ends of Soffit.	<b>Count:</b>	2		
<b>Material:</b>	Cast In Place Concrete	<b>Total Quantity:</b>	19.6 (sq.m)		
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>		
<b>Protection System:</b>		<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>
	sq.m	0.00	19.6	0.00	0.00
		<b>BCI TEV:</b>	2352.0		<b>BCI CEV:</b> 1764.0
<b>Comments:</b>	Good Condition. Hairline cracking with light staining on the soffit.				
<b>Recommended work:</b>			<b>Maintenance Needs:</b>		
<b>Comments</b>			<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>					

<b>Element Group:</b>	Decks	<b>Length:</b>	20.5 (m)		
<b>Element Name:</b>	Soffit - Thin Slab	<b>Width:</b>	4.5 (m)		
<b>Location:</b>	Interior	<b>Height:</b>	1.0		
<b>Element Description:</b>	Interior Concrete Soffit.	<b>Count:</b>	0		
<b>Material:</b>	Cast In Place Concrete	<b>Total Quantity:</b>	92.3 (sq.m)		
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>		
<b>Protection System:</b>		<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>
	sq.m	0.00	92.3	0.00	0.00
		<b>BCI TEV:</b>	11076.0		<b>BCI CEV:</b> 8307.0
<b>Comments:</b>	Good condition.				
<b>Recommended work:</b>			<b>Maintenance Needs:</b>		
<b>Comments</b>			<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>					

<b>Element Group:</b>	Embankments & Streams					<b>Length:</b>	
<b>Element Name:</b>	Embankments					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>	Embankments					<b>Count:</b>	4
<b>Material:</b>						<b>Total Quantity:</b>	4.0 (each)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	15 - Unstable embankments	
	each	0.00	0.00	2.0	2.0	<b>BCI TEV:</b> 4000.0	<b>BCI CEV:</b> 800.0
<b>Comments:</b>	Well-established vegetation North quadrants. South quadrants Sandy Shoreline and minor erosion. Shoreline stable. Gabion Baskets are stable.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 13 - Erosion Control at Bridges	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input checked="" type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>						Install erosion protection and mitigation measures at south embankments.	

<b>Element Group:</b>	Embankments & Streams					<b>Length:</b>	
<b>Element Name:</b>	Streams and Waterways					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>	Shallow sandy bottom channel.					<b>Count:</b>	1
<b>Material:</b>						<b>Total Quantity:</b>	1.0 (all)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	all	0.00	1.0	0.00	0.00	<b>BCI TEV:</b> 1000.0	<b>BCI CEV:</b> 750.0
<b>Comments:</b>	Sand aggraded on northeast quadrant, few logs and concrete debris in the waterway. Stream is flowing directly at west abutment no sign of erosion.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>							

<b>Element Group:</b>	Joints					<b>Length:</b>	5.5 (m)	
<b>Element Name:</b>	Armouring/retaining devices					<b>Width:</b>		
<b>Location:</b>	East and West Joints					<b>Height:</b>		
<b>Element Description:</b>	Steel armour plates at expansion joint.					<b>Count:</b>	2	
<b>Material:</b>	Steel					<b>Total Quantity:</b>	11.0 (m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	m	0.00	6.6	3.2	1.2	<b>BCI TEV:</b> 11000.0	<b>BCI CEV:</b> 6230.0	
<b>Comments:</b>	Armour plating in both joints in the north curb are exposed due to abrasion of the curb at these locations. Plates are rusted and bent from snow plow.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>		<b>Timing</b>						
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace		<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent						

<b>Element Group:</b>	Joints					<b>Length:</b>	4.3 (m)	
<b>Element Name:</b>	Concrete End Dams					<b>Width:</b>	0.2 (m)	
<b>Location:</b>	East and West Joints					<b>Height:</b>		
<b>Element Description:</b>	West Side Concrete End Dam.					<b>Count:</b>	2	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	1.7 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	0.00	1.3	0.4	<b>BCI TEV:</b> 3570.0	<b>BCI CEV:</b> 1092.0	
<b>Comments:</b>	Concrete loss between the asphalt approaches at the end dams. Rubber expansion joint defect allowing run off to flow between joint and down abutment wall.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>		<b>Timing</b>						
<input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace		<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent						

<b>Element Group:</b>	Joints					<b>Length:</b>	5.5	
<b>Element Name:</b>	Seals/sealants					<b>Width:</b>		
<b>Location:</b>	East and West Joints					<b>Height:</b>		
<b>Element Description:</b>	Expansion Joint Above West Abutment Clogged with Debris.					<b>Count:</b>	2	
<b>Material:</b>	Other					<b>Total Quantity:</b>	2.0 (each)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	each	0.00	0.00	1.0	1.0	<b>BCI TEV:</b> 2000.0		<b>BCI CEV:</b> 400.0
<b>Comments:</b>	Debris built up throughout joints. Service joint seal leaking based on discolouration of abutment wall and delamination in southwest corner of soffit. North expansion joint extruded slight damage from snow plough.							
<b>Recommended work:</b>					<b>Maintenance Needs:</b>			
<b>Comments</b> Replace joint seal both joints.					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type</b> <input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace								
<b>Timing</b> <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent								

<b>Element Group:</b>	Sidewalks/curbs					<b>Length:</b>	24.5 (m)	
<b>Element Name:</b>	Curbs					<b>Width:</b>	0.5 (m)	
<b>Location:</b>	North and South					<b>Height:</b>	0.2 (m)	
<b>Element Description:</b>	Curb					<b>Count:</b>	2	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	34.3 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	22.3	12.0	0.00	<b>BCI TEV:</b> 1372.0		<b>BCI CEV:</b> 861.0
<b>Comments:</b>	Abrasions/spalling at curbs where joints meet, light collision damage. Abrasion damage from snow plough.							
<b>Recommended work:</b>					<b>Maintenance Needs:</b> 2 - Bridge Cleaning			
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type Timing</b>								

\* A quantity must be estimated using the appropriate unit (e.g. sq.m.). Percent should not be used.

Repair and Rehabilitation Required		Priority					Estimated Cost
Element	Repair and Rehabilitation Required	> 10 years	6 - 10 years	1 - 5 years	Now < 1 year	Urgent	
Approach guiderail	Replace damaged guide rail and install end treatments Upgrade structure connection at next rehab					✓	\$10,000.00
Joints	Replace armouring and seals.			✓			\$50,000.00
Embankments	Install erosion control at embankments				✓		\$5,000.00
Hand rail	Replace 2 end caps				✓		\$500.00
<b>Total</b>							\$65,500.00

Associated Work	Comments	Estimated Cost
<b>Approaches</b>		
<b>Detours</b>		
<b>Traffic Control</b>		
<b>Utilities</b>		
<b>Eng Design and Supervision</b>		
<b>Environmental Study</b>		
<b>Other</b>		
<b>Contingencies</b>		
<b>Total</b>		



**Description: Looking north west**



**Description: Looking south east**



**Description: Looking south west**



**Description: South west abutment**  
**Abutments / Abutment Walls (East and West)**



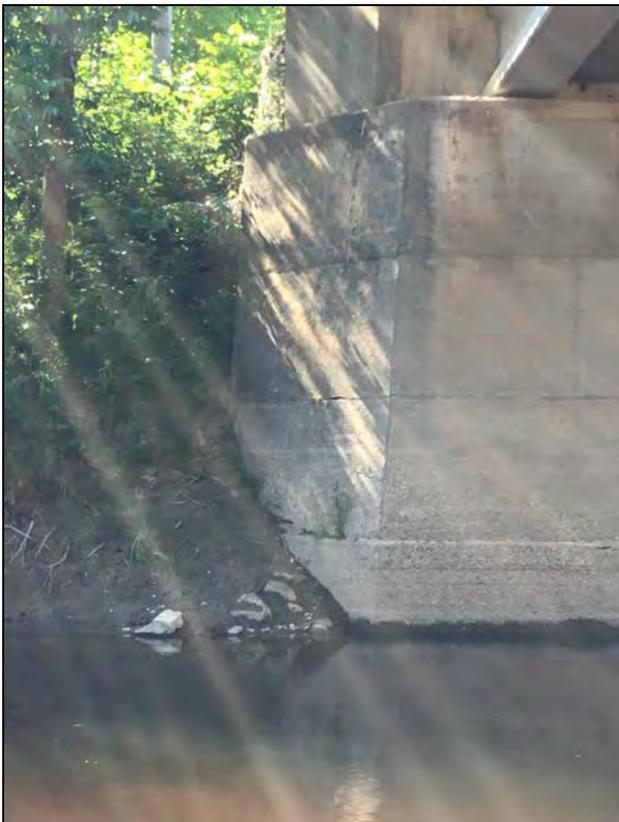
**Description: North east abutment**  
**Abutments / Abutment Walls (East and West)**



**Abutments / Ballast Walls (East and West)**



**Abutments / Bearings**



**Description: North east**

**Abutments / Wingwalls (Northeast and Southeast)**



**Description: South east wing wall**  
**Abutments / Wingwalls (Northeast and Southeast)**



**Description: Southwest wingwall**  
**Abutments / Wingwalls (Northwest and Southwest)**



**Accessories / Signs (Both sides extending 30m back for one lane sign.)**



**Description: Damaged beam (gash)**  
**Approaches / Barriers (All Quadrants)**



**Description: S**  
**Approaches / Wearing surface (East and West)**



**Barriers / Barrier/Parapet Walls (Interior)**



**Barriers / Hand Railings (North and South)**



**Decks / Drainage System (Top of deck)**



**Decks / Deck Top**



**Decks / Soffit - Thin Slab (Exterior/Fascia)**



**Description: Sandy sw shoreline**  
**Embankments & Streams / Embankments**



**Embankments & Streams / Streams and Waterways**



**Joints / Armouring/retaining devices (East and West Joints)**

Inventory Data:			
<b>Structure Name</b>	<input style="width: 95%;" type="text" value="Bridge 06 East River Bridge"/>		
<b>Main Hwy/Road #</b>	<input style="width: 150px;" type="text"/>	<input checked="" type="checkbox"/> On <input type="checkbox"/> Under	<b>Crossing Type:</b> <input checked="" type="checkbox"/> Navi. Water, <input type="checkbox"/> Non-Navi. Water, <input type="checkbox"/> Rail, <input type="checkbox"/> Road, <input type="checkbox"/> Ped., <input type="checkbox"/> Other, <input type="checkbox"/> Over water, <input type="checkbox"/> Over Road, <input type="checkbox"/> Under railway, <input type="checkbox"/> Unknown, <input type="checkbox"/> Over railway, <input type="checkbox"/> Under Road
<b>Hwy/Road Name</b>	<input style="width: 95%;" type="text" value="Williamsport Road"/>		
<b>Structure Location</b>	<input style="width: 95%;" type="text" value="5.96km East of District Road 3"/>		
<b>Latitude</b>	<input n"="" style="width: 150px;" type="text" value="45° 23' 33"/>	<b>Longitude</b>	<input style="width: 150px;" type="text" value="79° 9' 36" w"=""/>
<b>Northing</b>	<input style="width: 150px;" type="text"/>	<b>Easting</b>	<input style="width: 150px;" type="text"/>
<b>Owner(s)</b>	<input style="width: 150px;" type="text" value="Town of Huntsville"/>	<b>Heritage designation:</b> <input checked="" type="checkbox"/> Not Cons., <input type="checkbox"/> Cons./not App., <input type="checkbox"/> List/not Desig., <input type="checkbox"/> Desig./not List, <input type="checkbox"/> Desig. & List	
<b>MTO Region</b>	<input style="width: 150px;" type="text" value="Northeastern"/>	<b>Road Class:</b> <input type="checkbox"/> Freeway, <input type="checkbox"/> Arterial, <input checked="" type="checkbox"/> Collector, <input type="checkbox"/> Collector Residential, <input type="checkbox"/> Collector Commercial, <input type="checkbox"/> Local, <input type="checkbox"/> Local Residential, <input type="checkbox"/> Local Commercial, <input type="checkbox"/> Rural Expressways, <input type="checkbox"/> Alleyways, <input type="checkbox"/> 4 or more lanes	
<b>MTO District</b>	<input style="width: 150px;" type="text" value="Huntsville"/>	<b>Posted Speed</b>	<input style="width: 50px;" type="text" value="60"/> <b>No. of Lanes</b> <input style="width: 50px;" type="text" value="2"/>
<b>Old County</b>	<input style="width: 150px;" type="text" value="Simcoe-Muskoka"/>	<b>AADT</b>	<input style="width: 50px;" type="text" value="375.0"/> <b>% Trucks</b> <input style="width: 50px;" type="text"/>
<b>Geographic Twp.</b>	<input style="width: 150px;" type="text" value="Chaffey"/>	<b>Inspection Route Sequence</b>	<input style="width: 150px;" type="text"/>
<b>Structure Type</b>	<input style="width: 150px;" type="text" value="Concrete Slab on Steel Girders"/>	<b>Interchange Number</b>	<input style="width: 150px;" type="text"/>
<b>Total Deck Length</b>	<input style="width: 100px;" type="text" value="31.5"/> (m)	<b>Interchange Structure Number</b>	<input style="width: 150px;" type="text"/>
<b>Overall Str. Width</b>	<input style="width: 100px;" type="text" value="10.0"/> (m)	<b>Min. Vertical Clearance</b>	<input style="width: 150px;" type="text"/> (m)
<b>Total Deck Area</b>	<input style="width: 100px;" type="text" value="315.0"/> (sq.m)	<b>Special Routes:</b>	<input type="checkbox"/> Transit, <input type="checkbox"/> Truck, <input type="checkbox"/> School, <input type="checkbox"/> Bicycle, <input type="checkbox"/> Emergency, <input type="checkbox"/> Commuter
<b>Roadway Width</b>	<input style="width: 100px;" type="text" value="8.1"/> (m)	<b>Detour Length Around Bridge</b>	<input style="width: 100px;" type="text" value="N/A"/> (km)
<b>Skew Angle</b>	<input style="width: 50px;" type="text" value="0"/> (Degrees)	<b>Direction of Structure</b>	<input style="width: 150px;" type="text" value="North-South"/>
<b>No. of Spans</b>	<input style="width: 50px;" type="text" value="1"/>	<b>Fill on Structure</b>	<input style="width: 150px;" type="text"/> (m)
<b>Span Lengths</b>	<input style="width: 95%;" type="text" value="30"/> (m)		

Historical Data:			
<b>Year Built</b>	<input style="width: 50px;" type="text" value="1990"/>	<b>Year of Last Major Rehab.</b>	<input style="width: 50px;" type="text"/>
<b>Last OSIM Inspection</b>	<input style="width: 50px;" type="text" value="2015"/>	<b>Last Evaluation</b>	<input style="width: 50px;" type="text"/>
<b>Last Enhanced OSIM Inspection</b>	<input style="width: 50px;" type="text"/>	<b>Current Load Limit</b>	<input style="width: 50px;" type="text" value="/ /"/> (tonnes)
<b>Enhanced Access Equipment</b>	<input style="width: 50px;" type="text"/>	<b>Load Limit By-Law #</b>	<input style="width: 50px;" type="text" value="/ /"/>
<b>Last Underwater Inspection</b>	<input style="width: 50px;" type="text"/>	<b>By-Law Expiry Date</b>	<input style="width: 50px;" type="text"/>
<b>Last Condition Survey</b>	<input style="width: 50px;" type="text"/>		
<b>Rehab History: (Date/description)</b>			

Scheduled Improvements:	
<b>Regional Priority Number</b> <input style="width: 80px;" type="text"/>	<b>Programmed Work Year</b> <input style="width: 80px;" type="text"/>
<b><i>Nature of Program Work:</i></b>	

Appraisal Indices:		Comments
<b>Fatigue</b>		
<b>Seismic</b>		
<b>Scour</b>		
<b>Flood</b>		
<b>Geometrics</b>		
<b>Barrier</b>		
<b>Curb</b>		
<b>Load Capacity</b>		

Field Inspection Information:			
<b>Date of Inspection:</b>	July 11, 2018	<b>Inspection Type</b>	OSIM
<b>Inspector:</b>	Sean Wetmore		
<b>Others in Party:</b>	Ben Belfry		
<b>Access Equipment Used:</b>	Tape, hammer, flashlight		
<b>Weather:</b>	Sunny		
<b>Temperature:</b>	25.0 °C		

Upcoming Inspections and Investigations:		
Due date	Priority	Comments

Additional Investigations Required:	Priority		
	None	Normal	Urgent
<b>Material Condition Survey</b>	✓		
<b>Detailed Deck Condition Survey:</b>	✓		
<b>Non-destructive Delamination Survey of Asphalt-Covered Deck:</b>	✓		
<b>Concrete Substructure Condition Survey:</b>	✓		
<b>Detailed Coating Condition Survey:</b>	✓		
<b>Detailed Timber Investigation</b>	✓		
<b>Post-Tensioned Strand Investigation</b>	✓		
<b>Underwater Investigation:</b>	✓		
<b>Fatigue Investigation:</b>	✓		
<b>Seismic Investigation:</b>	✓		
<b>Structure Evaluation:</b>	✓		
<b>Monitoring</b>	✓		
<b>Monitoring of Deformations, Settlements and Movements:</b>	✓		
<b>Monitoring Crack Widths:</b>	✓		

**Investigation Notes:**  
*None*

<b>Overall Structure Notes:</b>	
<b>Recommended Work on Structure:</b>	
<b>Timing of Recommended Work:</b>	<input type="checkbox"/> Urgent, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> > 10 years
<b>Overall Comments:</b>	Structure in good condition
<b>Date of Next Inspection:</b>	2020

<b>Overall Bridge Condition:</b>	78.0
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Recommended inspections and Investigations	Due date	Priority	Comments
<b>Boat Inspection</b>			
<b>Bridge master</b>			
<b>Coating survey</b>			
<b>Detailed condition survey</b>			
<b>Evaluation</b>			
<b>Fatigue</b>			
<b>Monitor Settlements/Movements</b>			
<b>Seismic</b>			
<b>Substructure condition survey</b>			
<b>Underwater</b>			

**Suspected Performance Deficiencies**

- |                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li><b>01</b> Load carrying capacity</li> <li><b>02</b> Excessive deformations (deflections &amp; rotations)</li> <li><b>03</b> Continuing settlement</li> <li><b>04</b> Continuing movements</li> <li><b>05</b> Seized bearings</li> </ul>                                                | <ul style="list-style-type: none"> <li><b>06</b> Bearing not uniformly loaded/unstable</li> <li><b>07</b> Jammed expansion joint</li> <li><b>08</b> Pedestrian/vehicular hazard</li> <li><b>09</b> Rough riding surface</li> <li><b>10</b> Surface ponding</li> <li><b>11</b> Deck drainage</li> </ul>         | <ul style="list-style-type: none"> <li><b>12</b> Slippery surfaces</li> <li><b>13</b> Flooding/channel blockage</li> <li><b>14</b> Undermining of foundation</li> <li><b>15</b> Unstable embankments</li> <li><b>16</b> Other</li> <li><b>17</b> None</li> </ul>                      |
| <b>Maintenance Needs</b>                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li><b>01</b> Lift and Swing Bridge Maintenance</li> <li><b>02</b> Bridge Cleaning</li> <li><b>03</b> Bridge Handrail Maintenance</li> <li><b>04</b> Painting Steel Bridge Structures</li> <li><b>05</b> Bridge Deck Joint Repair</li> <li><b>06</b> Bridge Bearing Maintenance</li> </ul> | <ul style="list-style-type: none"> <li><b>07</b> Repair to Structural Steel</li> <li><b>08</b> Repair of Bridge Concrete</li> <li><b>09</b> Repair of Bridge Timber</li> <li><b>10</b> Bailey bridges - Maintenance</li> <li><b>11</b> Animal/Pest Control</li> <li><b>12</b> Bridge Surface Repair</li> </ul> | <ul style="list-style-type: none"> <li><b>13</b> Erosion Control at Bridges</li> <li><b>14</b> Concrete Sealing</li> <li><b>15</b> Rout and Seal</li> <li><b>16</b> Bridge Deck Drainage</li> <li><b>17</b> Scaling (Loose Concrete or ACR Steel)</li> <li><b>18</b> Other</li> </ul> |

### Element Data

<b>Element Group:</b>	Abutments					<b>Length:</b>		
<b>Element Name:</b>	Abutment walls					<b>Width:</b>	9.0 (m)	
<b>Location:</b>	North and South					<b>Height:</b>	4.5 (m)	
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Other					<b>Total Quantity:</b>	81.0 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	70.0	10.0	1.0	<b>BCI TEV:</b> 72900.0		<b>BCI CEV:</b> 50850.0
<b>Comments:</b>	Moderate Rust staining from girders on West side, Ast side has light moisture stains under the exterior girders. Hairline cracks and bug holes. Plaque on East side.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Abutments					<b>Length:</b>		
<b>Element Name:</b>	Ballast walls					<b>Width:</b>	9.0 (m)	
<b>Location:</b>	North and South					<b>Height:</b>	1.3 (m)	
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Cast-In-Place					<b>Total Quantity:</b>	23.4 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	23.4	0.00	0.00	<b>BCI TEV:</b> 8190.0		<b>BCI CEV:</b> 6142.5
<b>Comments:</b>	In good condition. Wet due to leakage from joint above.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Abutments	<b>Length:</b>					
<b>Element Name:</b>	Bearings	<b>Width:</b>					
<b>Location:</b>	North and South	<b>Height:</b>					
<b>Element Description:</b>		<b>Count:</b>	8				
<b>Material:</b>	Other	<b>Total Quantity:</b>	8.0 (each)				
<b>Element Type:</b>	Laminated Elastomeric	<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	each	0.00	8.0	0.00	0.00	<b>BCI TEV:</b> 8000.0	<b>BCI CEV:</b> 6000.0
<b>Comments:</b>	Good condition. Inspection limited due to height.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>							

<b>Element Group:</b>	Abutments	<b>Length:</b>	7.9 (m)				
<b>Element Name:</b>	Wingwalls	<b>Width:</b>	(m)				
<b>Location:</b>	4 Corners of Structure	<b>Height:</b>	3.8 (m)				
<b>Element Description:</b>		<b>Count:</b>	4				
<b>Material:</b>	Cast-In-Place Concrete	<b>Total Quantity:</b>	120.08 (sq.m)				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	sq.m	0.00	120.08	0.00	0.00	<b>BCI TEV:</b> 42028.0	<b>BCI CEV:</b> 31521.0
<b>Comments:</b>	Hairline map cracking throughout, overall in good condition.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>							

<b>Element Group:</b>	Accessories					<b>Length:</b>	
<b>Element Name:</b>	Signs					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>	N/A					<b>Count:</b>	2
<b>Material:</b>	Steel					<b>Total Quantity:</b>	2.0
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	each	0.00	1.0	1.0	0.00	<b>BCI TEV: 200.0</b>	<b>BCI CEV: 115.0</b>
<b>Comments:</b>	Bridges ices present at both ends. Southeast sign slightly bent and leaning in fair condition. Northwest in good condition.						
<b>Recommended work:</b>						<b>Maintenance Needs: 18 - Other</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input checked="" type="checkbox"/> Urgent	
<b>Type Timing</b>						Install hazard signs at buried ends of rail if end treatments are not installed immediately.	

<b>Element Group:</b>	Approaches					<b>Length:</b>	36.5 (m)
<b>Element Name:</b>	Barriers					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	4
<b>Material:</b>	Steel					<b>Total Quantity:</b>	146.0 (m)
<b>Element Type:</b>	Steel Flex Beam on Wood Post					<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	8 - Pedestrian / vehicular hazard	
	m	0.00	294.9	0.00	32.8	<b>BCI TEV: 29200.0</b>	<b>BCI CEV: 44235.0</b>
<b>Comments:</b>	Most are in good condition, buried end treatments are vehicle launching hazard. Guide rail is in fair condition due to rotated / rotted blocks and timbers and light rusting						
<b>Recommended work:</b>						<b>Maintenance Needs: 17. Other</b>	
<b>Comments</b>						<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>						Replace/ fix rotten and twisted guiderail posts and blocks.	
<input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace						<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input checked="" type="checkbox"/> Urgent	

<b>Element Group:</b>	Approaches	<b>Length:</b>	8.5 (m)				
<b>Element Name:</b>	Curb and Gutters	<b>Width:</b>	1.0 (m)				
<b>Location:</b>	Northwest Southeast	<b>Height:</b>	0.25 (m)				
<b>Element Description:</b>		<b>Count:</b>	4				
<b>Material:</b>	Cast In Place Concrete	<b>Total Quantity:</b>	42.5 (sq.m)				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	<b>BCI TEV:</b> 1062.5	<b>BCI CEV:</b> 721.0
	sq.m	0.00	33.92	8.5	0.08		
<b>Comments:</b>	Abrasions/light spalling along inside face from impact damage. Significant washout from gutter on southwest approach. NOTE: This same water is causing moderate erosion of sand into water further down on west side of bridge and the gutter should be treated to prevent this runoff.						

<b>Recommended work:</b>	<b>Maintenance Needs:</b> 08. Repair of Bridge Concrete
<b>Comments</b> Fill washout at southwest approach	<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent  Patch abraded and spalled inside face of curb.
<b>Type</b> <b>Timing</b> <input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Replace <input type="checkbox"/> years, <input checked="" type="checkbox"/> Urgent	

<b>Element Group:</b>	Approaches	<b>Length:</b>	6.0 (m)				
<b>Element Name:</b>	Wearing surface	<b>Width:</b>	8.0 (m)				
<b>Location:</b>	North and South	<b>Height:</b>					
<b>Element Description:</b>		<b>Count:</b>	2				
<b>Material:</b>	Asphalt	<b>Total Quantity:</b>	96.0 (sq.m)				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	<b>BCI TEV:</b> 576.0	<b>BCI CEV:</b> 432.0
	sq.m	0.00	96.0	0.00	0.00		
<b>Comments:</b>	Light centreline cracking on northwest end. Otherwise in good condition.						
<b>Recommended work:</b>							<b>Maintenance Needs:</b> 15 - Rout and Seal
<b>Comments</b>							<input type="checkbox"/> 1 year, <input checked="" type="checkbox"/> 2 years, <input type="checkbox"/> Urgent  Rout and Seal.
<b>Type Timing</b>							

<b>Element Group:</b>	Barriers					<b>Length:</b>	1.0 (m)	
<b>Element Name:</b>	Barrier/Parapet Walls					<b>Width:</b>	0.3 (m)	
<b>Location:</b>	East and West					<b>Height:</b>	1.0 (m)	
<b>Element Description:</b>						<b>Count:</b>	4	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	11.6 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	10.6	0.4	0.6	<b>BCI TEV:</b> 1160.0	<b>BCI CEV:</b> 811.0	
<b>Comments:</b>	Prior inspection listed substandard connection to approach guiderail. Northeast section has minor weathering and narrow map cracking. Southeast has minor spall. Northwest has some narrow cracks, southwest has some small stalls at top, narrow pattern cracks.							
<b>Recommended work:</b>					<b>Maintenance Needs:</b>			
<b>Comments</b> Upgrade at next major rehabilitation.					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type</b> <input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace								
<b>Timing</b> <input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent								

<b>Element Group:</b>	Barriers					<b>Length:</b>	49.0 (m)	
<b>Element Name:</b>	Railing Systems					<b>Width:</b>		
<b>Location:</b>	North and south					<b>Height:</b>	1.0	
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Aluminum railing / steel posts					<b>Total Quantity:</b>	98.0 (m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	m	0.00	98.0	0.00	0.00	<b>BCI TEV:</b> 19600.0	<b>BCI CEV:</b> 14700.0	
<b>Comments:</b>	Cap missing on northeast rail, southeast bottom rail, top rail northwest							
<b>Recommended work:</b>					<b>Maintenance Needs:</b> 18 - Other			
<b>Comments</b>					<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent  Replace end caps.			
<b>Type Timing</b>								

<b>Element Group:</b>	Beams/Main Longitudinal Elements	<b>Length:</b>					
<b>Element Name:</b>	Diaphragms	<b>Width:</b>					
<b>Location:</b>	Middle	<b>Height:</b>					
<b>Element Description:</b>		<b>Count:</b>	9				
<b>Material:</b>	Weathering Sheet	<b>Total Quantity:</b>	9.0 (each)				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	each	0.00	9.0	0.00	0.00	<b>BCI TEV:</b>	<b>BCI CEV:</b>
<b>Comments:</b>	Cross Frames in good condition						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>							

<b>Element Group:</b>	Beams/Main Longitudinal Elements	<b>Length:</b>					
<b>Element Name:</b>	Diaphragms	<b>Width:</b>					
<b>Location:</b>	End	<b>Height:</b>					
<b>Element Description:</b>		<b>Count:</b>	6				
<b>Material:</b>	Weathering Steel	<b>Total Quantity:</b>	6.0				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	each	0.00	6.0	0.00	0.00	<b>BCI TEV:</b>	<b>BCI CEV:</b>
<b>Comments:</b>	Corrosion staining from weathering steel girders above.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>							

<b>Element Group:</b>	Beams/Main Longitudinal Elements					<b>Length:</b>	31.5 (m)	
<b>Element Name:</b>	Girders					<b>Width:</b>	0.5 (m)	
<b>Location:</b>	Middle					<b>Height:</b>	1.3 (m)	
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Weathering Steel					<b>Total Quantity:</b>	253.8 (sq.m)	
<b>Element Type:</b>	I-Beam or Girders					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	253.8	0.00	0.00	<b>BCI TEV:</b> 50760.0	<b>BCI CEV:</b> 38070.0	
<b>Comments:</b>	Weathering steel girders are in good condition. Corrosion stains on southeast abutment from girders.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Beams/Main Longitudinal Elements					<b>Length:</b>	31.5 (m)	
<b>Element Name:</b>	Girders					<b>Width:</b>	0.5 (m)	
<b>Location:</b>	Ends					<b>Height:</b>	1.3 (m)	
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Weathering Steel					<b>Total Quantity:</b>	258.3 (sq.m)	
<b>Element Type:</b>	I-Beam or Girders					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	258.3	0.00	0.00	<b>BCI TEV:</b> 51660.0	<b>BCI CEV:</b> 38745.0	
<b>Comments:</b>	Weathering steel girders in good condition. Corrosion stain present or southeast abutment wall from girders.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Decks					<b>Length:</b>	31.5 (m)	
<b>Element Name:</b>	Deck Top					<b>Width:</b>	8.0 (m)	
<b>Location:</b>						<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	1	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	252.0 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	11. Deck drainage		
	sq.m	0.00	252.0	0.00	0.00	<b>BCI TEV:</b> 30240.0	<b>BCI CEV:</b> 22680.0	
<b>Comments:</b>	Exposed concrete deck top. light wear/scaling due to traffic, snowplough and snowmobile skis. Sediment aggregated on deck top.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 02. Bridge Cleaning		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input checked="" type="checkbox"/> Urgent		
<b>Type Timing</b>						Clear sediment from deck top.		

<b>Element Group:</b>	Decks					<b>Length:</b>	0.3 (m)	
<b>Element Name:</b>	Drainage System					<b>Width:</b>	0.22 (m)	
<b>Location:</b>	North and south					<b>Height:</b>	1.5 (m)	
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Steel					<b>Total Quantity:</b>	2.0 (each)	
<b>Element Type:</b>	Metal Drain Pipes					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	11. Deck drainage		
	each	0.00	2.0	0.00	0.00	<b>BCI TEV:</b>	<b>BCI CEV:</b>	
<b>Comments:</b>	In Good Condition							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Decks					<b>Length:</b>	27.5 (m)	
<b>Element Name:</b>	Soffit - Thin Slab					<b>Width:</b>	2.3 (m)	
<b>Location:</b>	Interior					<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	3	
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	167.8 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	167.8	0.00	0.00	<b>BCI TEV:</b> 20136.0	<b>BCI CEV:</b> 15102.0	
<b>Comments:</b>	Light transverse cracking with moderate efflorescence throughout. Some visible map pattern cracking. Narrow longitudinal crack on both sides.							
<b>Recommended work:</b>					<b>Maintenance Needs:</b>			
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type Timing</b>								

<b>Element Group:</b>	Decks					<b>Length:</b>	2.0 (m)	
<b>Element Name:</b>	Soffit - Thin Slab					<b>Width:</b>	9.0 (m)	
<b>Location:</b>	Ends					<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	36.0 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	34.0	1.0	1.0	<b>BCI TEV:</b> 4320.0	<b>BCI CEV:</b> 3108.0	
<b>Comments:</b>	Light rust staining and water leakage from joints above							
<b>Recommended work:</b>					<b>Maintenance Needs:</b>			
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type Timing</b>								

<b>Element Group:</b>	Decks	<b>Length:</b>	27.5 (m)		
<b>Element Name:</b>	Soffit - Thin Slab	<b>Width:</b>	1.0 (m)		
<b>Location:</b>	Exterior/Fascia	<b>Height:</b>	0.3 (m)		
<b>Element Description:</b>		<b>Count:</b>	2		
<b>Material:</b>	Cast In Place Concrete	<b>Total Quantity:</b>	71.5 (sq.m)		
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>		
<b>Protection System:</b>		<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>
	sq.m	0.00	57.5	14.0	0.00
		<b>BCI TEV:</b> 8580.0	<b>BCI CEV:</b> 5847.0		
<b>Comments:</b>	Light transverse cracking with moderate efflorescence throughout.				
<b>Recommended work:</b>			<b>Maintenance Needs:</b>		
<b>Comments</b>			<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>			<b>Timing</b>		

<b>Element Group:</b>	Embankments & Streams	<b>Length:</b>			
<b>Element Name:</b>	Embankments	<b>Width:</b>			
<b>Location:</b>	Four quadrants	<b>Height:</b>			
<b>Element Description:</b>		<b>Count:</b>	4		
<b>Material:</b>		<b>Total Quantity:</b>	4.0		
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>		<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>
	each	0.00	3.0	0.00	1.0
		<b>BCI TEV:</b> 4000.0	<b>BCI CEV:</b> 2250.0		
<b>Comments:</b>	Southeast quadrant severe erosion at spillway of road. Embankments in overall good condition and well established.				
<b>Recommended work:</b>			<b>Maintenance Needs:</b> 13 - Erosion Control at Bridges		
<b>Comments</b>			<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>			<b>Timing</b>		
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace			<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent		
			Install erosion protection at southeast embankment.		

<b>Element Group:</b>	Embankments & Streams	<b>Length:</b>					
<b>Element Name:</b>	Streams and Waterways	<b>Width:</b>					
<b>Location:</b>		<b>Height:</b>					
<b>Element Description:</b>		<b>Count:</b>	1				
<b>Material:</b>		<b>Total Quantity:</b>	1.0				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	all	0.00	1.0	0.00	0.00	<b>BCI TEV:</b> 1000.0	<b>BCI CEV:</b> 750.0
<b>Comments:</b>	Flows northeast to southwest. Waterway is clear of debris directly underneath structure.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>							

<b>Element Group:</b>	Joints	<b>Length:</b>	10.0 (m)				
<b>Element Name:</b>	Armouring/retaining devices	<b>Width:</b>					
<b>Location:</b>		<b>Height:</b>					
<b>Element Description:</b>		<b>Count:</b>	6				
<b>Material:</b>	Steel	<b>Total Quantity:</b>	60.0 (m)				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	m	0.00	55.0	5.0	0.00	<b>BCI TEV:</b> 60000.0	<b>BCI CEV:</b> 43250.0
<b>Comments:</b>	Mild corrosion and light scraping no damage on west side.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>							

<b>Element Group:</b>	Joints					<b>Length:</b>	8.1 (m)	
<b>Element Name:</b>	Concrete end dams					<b>Width:</b>	0.2 (m)	
<b>Location:</b>						<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	3.2 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	2.2	1.0	0.00	<b>BCI TEV:</b> 6720.0	<b>BCI CEV:</b> 4305.0	
<b>Comments:</b>	Light surface wear throughout. Isolated medium surface wear on the S quadrant							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

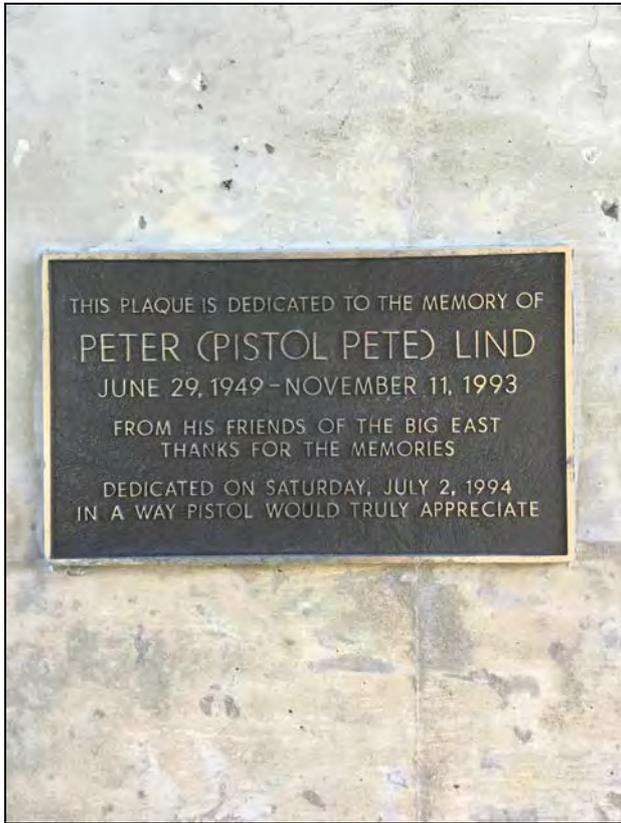
<b>Element Group:</b>	Joints					<b>Length:</b>		
<b>Element Name:</b>	Seals/sealants					<b>Width:</b>		
<b>Location:</b>						<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>						<b>Total Quantity:</b>	2.0 (each)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	each	0.00	0.00	0.00	2.0	<b>BCI TEV:</b> 2000.0	<b>BCI CEV:</b>	
<b>Comments:</b>	Limited due to debris build up. Gap at least 0.15 deep and appears to be leaking. Winter sand and gravel build up on NW end.							
<b>Recommended work:</b>						<b>Maintenance Needs: 2 - Bridge Cleaning</b>		
<b>Comments</b>						<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent  Clean debris from joint seal.		
<b>Type Timing</b>								
<input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace		<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent						

<b>Element Group:</b>	Sidewalks/curbs					<b>Length:</b>	31.5 (m)	
<b>Element Name:</b>	Curbs					<b>Width:</b>	1.0 (m)	
<b>Location:</b>	North and south sides.					<b>Height:</b>	0.2 (m)	
<b>Element Description:</b>	Extends along wingwalls					<b>Count:</b>	2	
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	75.6 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	68.3	6.6	0.7	<b>BCI TEV:</b> 3024.0	<b>BCI CEV:</b> 2154.6	
<b>Comments:</b>	Wear and damage from winter maintenance focused at joints and throughout. Minor spall and scaling from mechanical abrasion.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

\* A quantity must be estimated using the appropriate unit (e.g. sq.m.). Percent should not be used.

Repair and Rehabilitation Required		Priority					Estimated Cost
Element	Repair and Rehabilitation Required	> 10 years	6 - 10 years	1 - 5 years	Now < 1 year	Urgent	
Signs	Install hazard at ends of guide rail if end treatments are not installed immediately.					✓	\$2,000.00
Approaches - Curb/ gutter	Patch abraded and spalled inside face of curb. Fill washout at SW approach				✓		\$5,000.00
Joints	Replace joint seals. Clean sediment from seal			✓			\$5,000.00
Embankments	Install erosion control at SE embankment				✓		\$5,000.00
Barrier - Railing system	Replace missing end caps				✓		\$1,000.00
Approaches - wearing surface	Route and seal			✓			\$2,000.00
<b>Total</b>							\$20,000.00

Associated Work	Comments	Estimated Cost
Approaches		
Detours		
Traffic Control		
Utilities		
Eng Design and Supervision		
Environmental Study		
Other		
Contingencies		
<b>Total</b>		





**Description: East abutment wall**

**Abutments / Abutment walls (North and South)**



**Description: West abutment wall**

**Abutments / Abutment walls (North and South)**



**Description: West abutment**  
**Abutments / Abutment walls (North and South)**



**Description: Spall at north joint**  
**Approaches / Curb and Gutters (Northwest Southeast)**



**Description: Ne post**  
**Barriers / Barrier/Parapet Walls (East and West)**



**Description: Northwest**  
**Barriers / Barrier/Parapet Walls (East and West)**



**Description: Southwest**

**Barriers / Barrier/Parapet Walls (East and West)**

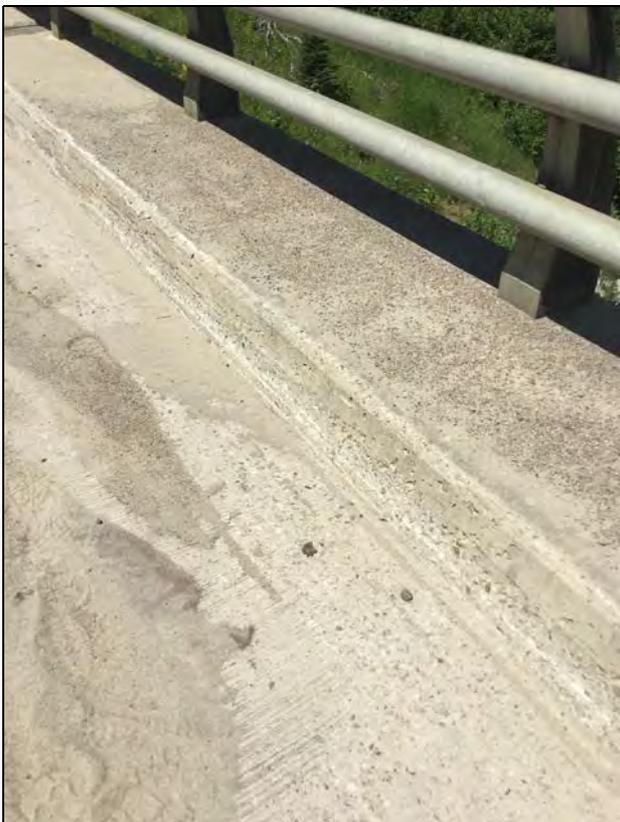


**Description: Southeast**

**Barriers / Barrier/Parapet Walls (East and West)**



**Description: North railing se side missing cap**  
**Barriers / Railing Systems (North and south)**



**Description: Scraping damage and sand build up north side**  
**Sidewalks/curbs / Curbs (North and south sides.)**



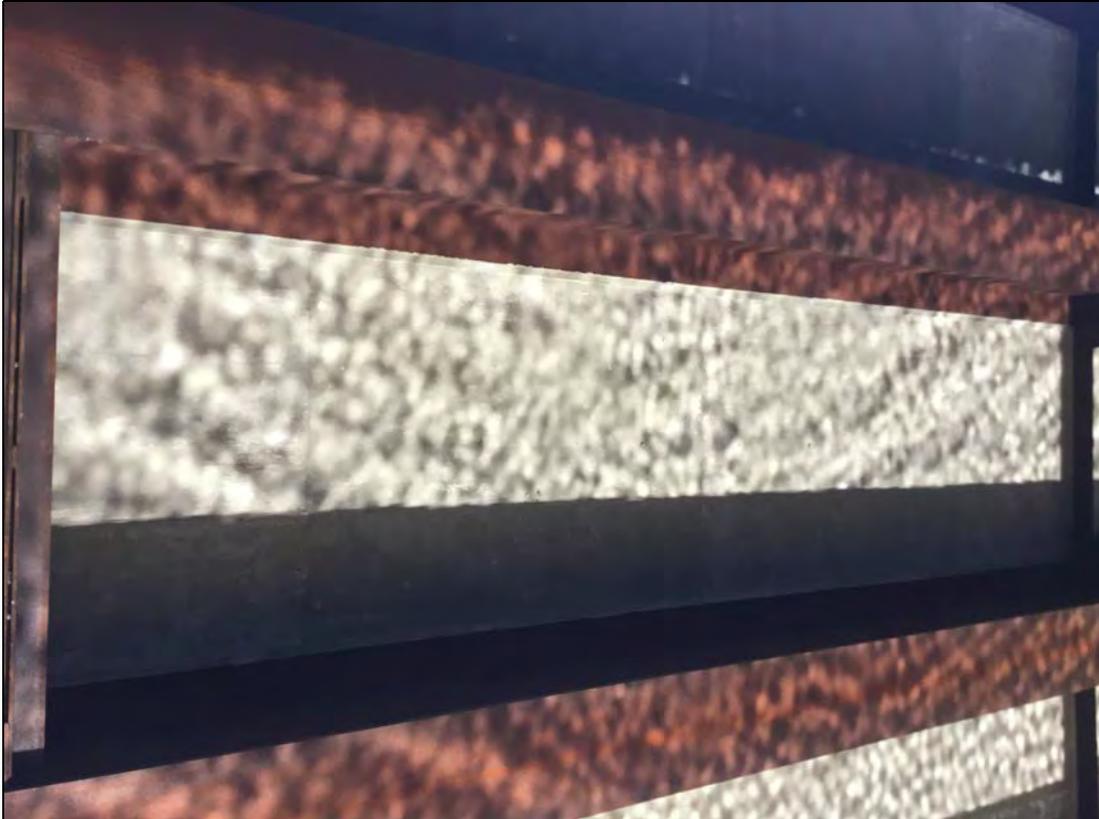
**Description: Scraping damage south side  
Sidewalks/curbs / Curbs (North and south sides.)**



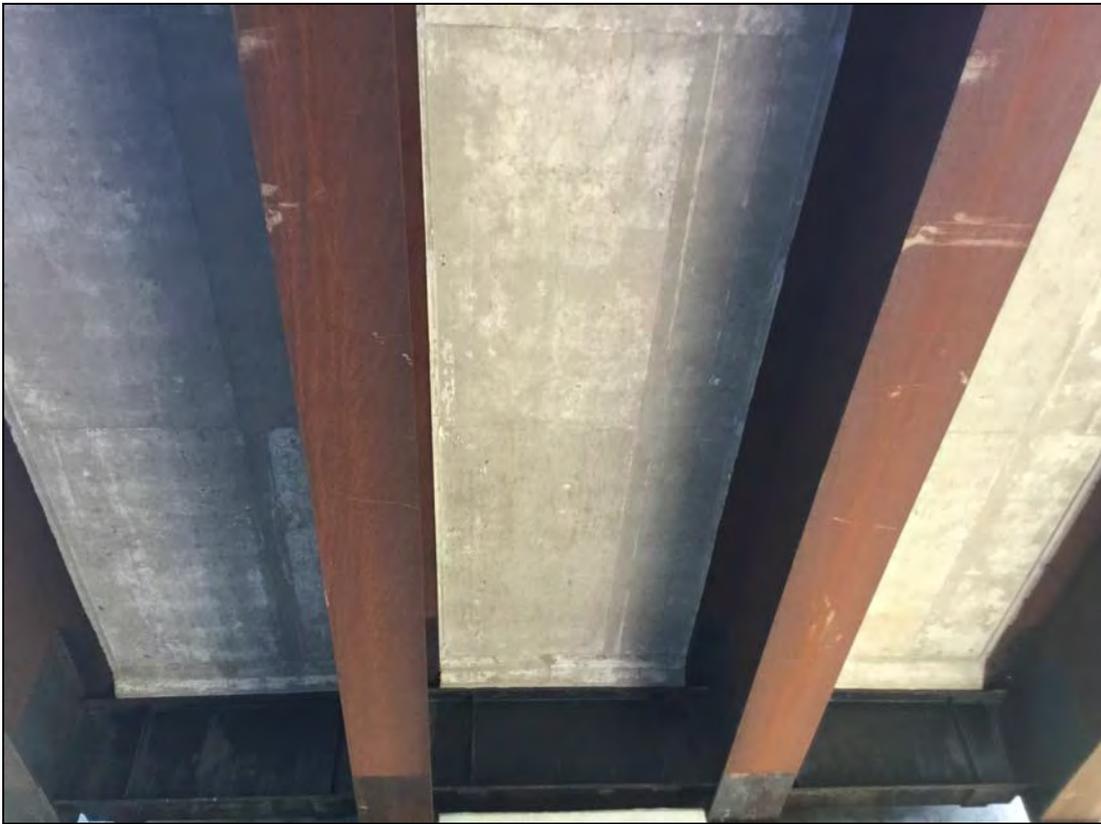
**Description: Southwest quadrant  
Decks / Soffit - Thin Slab (Interior)**



**Description: Southeast**  
**Decks / Soffit - Thin Slab (Interior)**



**Description: Center**  
**Decks / Soffit - Thin Slab (Interior)**



**Description: East**  
**Decks / Soffit - Thin Slab (Interior)**



**Decks / Soffit - Thin Slab (Interior)**



**Decks / Soffit - Thin Slab (Exterior/Fascia)**



**Description: SW embankment**

**Embankments & Streams / Embankments (Four quadrants)**



**Description: NW embankment**

**Embankments & Streams / Embankments (Four quadrants)**



**Description: Eroded embankment at spillway southeast quadrant**

**Embankments & Streams / Embankments (Four quadrants)**



**Description: NW**

**Embankments & Streams / Streams and Waterways**



**Description: SW**

**Embankments & Streams / Streams and Waterways**



**Description: East**  
**Beams/Main Longitudinal Elements / Diaphragms (End)**



**Description: Typ**  
**Beams/Main Longitudinal Elements / Diaphragms (Middle)**



**Description: East armoring  
Joints / Armoring/retaining devices**



**Description: West armoring  
Joints / Armoring/retaining devices**



**Description: SE end dam**  
**Joints / Concrete end dams**



**Description: West**  
**Joints / Seals/sealants**

Inventory Data:			
<b>Structure Name</b>	<input type="text" value="Bridge 07 Chaffey Ward (Fish Lake Road Bridge)"/>		
<b>Main Hwy/Road #</b>	<input type="text" value=""/>	<input checked="" type="checkbox"/> On <input type="checkbox"/> Under	<b>Crossing Type:</b> <input checked="" type="checkbox"/> Navi. Water, <input checked="" type="checkbox"/> Non-Navi. Water, <input type="checkbox"/> Rail, <input type="checkbox"/> Road, <input type="checkbox"/> Ped., <input type="checkbox"/> Other, <input type="checkbox"/> Over water, <input type="checkbox"/> Over Road, <input type="checkbox"/> Under railway, <input type="checkbox"/> Unknown, <input type="checkbox"/> Over railway, <input type="checkbox"/> Under Road
<b>Hwy/Road Name</b>	<input type="text" value="Fish Lake Road"/>		
<b>Structure Location</b>	<input type="text" value="0.08km East of Highway 592"/>		
<b>Latitude</b>	<input n"="" type="text" value="45° 27' 9"/>	<b>Longitude</b>	<input type="text" value="79° 14' 42" w"=""/>
<b>Northing</b>	<input type="text" value=""/>	<b>Easting</b>	<input type="text" value=""/>
<b>Owner(s)</b>	<input type="text" value="Town of Huntsville"/>	<b>Heritage designation:</b> <input checked="" type="checkbox"/> Not Cons., <input type="checkbox"/> Cons./not App., <input type="checkbox"/> List/not Desig., <input type="checkbox"/> Desig./not List, <input type="checkbox"/> Desig. & List	
<b>MTO Region</b>	<input type="text" value="Northeastern"/>	<b>Road Class:</b> <input type="checkbox"/> Freeway, <input type="checkbox"/> Arterial, <input checked="" type="checkbox"/> Collector, <input type="checkbox"/> Collector Residential, <input type="checkbox"/> Collector Commercial, <input type="checkbox"/> Local, <input type="checkbox"/> Local Residential, <input type="checkbox"/> Local Commercial, <input type="checkbox"/> Rural Expressways, <input type="checkbox"/> Alleyways, <input type="checkbox"/> 4 or more lanes	
<b>MTO District</b>	<input type="text" value="Huntsville"/>	<b>Posted Speed</b>	<input type="text" value="60"/> <b>No. of Lanes</b> <input type="text" value="1"/>
<b>Old County</b>	<input type="text" value="Simcoe-Muskoka"/>	<b>AADT</b>	<input type="text" value="150.0"/> <b>% Trucks</b> <input type="text" value=""/>
<b>Geographic Twp.</b>	<input type="text" value="Chaffey"/>	<b>Inspection Route Sequence</b>	<input type="text" value=""/>
<b>Structure Type</b>	<input type="text" value="Concrete T-Beam"/>	<b>Interchange Number</b>	<input type="text" value=""/>
<b>Total Deck Length</b>	<input type="text" value="7.0"/> (m)	<b>Interchange Structure Number</b>	<input type="text" value=""/>
<b>Overall Str. Width</b>	<input type="text" value="4.9"/> (m)	<b>Min. Vertical Clearance</b>	<input type="text" value=""/> (m)
<b>Total Deck Area</b>	<input type="text" value="34.3"/> (sq.m)	<b>Special Routes:</b>	<input type="checkbox"/> Transit, <input type="checkbox"/> Truck, <input type="checkbox"/> School, <input type="checkbox"/> Bicycle, <input type="checkbox"/> Emergency, <input type="checkbox"/> Commuter
<b>Roadway Width</b>	<input type="text" value="4.2"/> (m)	<b>Detour Length Around Bridge</b>	<input type="text" value="N/A"/> (km)
<b>Skew Angle</b>	<input type="text" value="0"/> (Degrees)	<b>Direction of Structure</b>	<input type="text" value="East to West"/>
<b>No. of Spans</b>	<input type="text" value="1"/>	<b>Fill on Structure</b>	<input type="text" value=""/> (m)
<b>Span Lengths</b>	<input type="text" value="6.3"/> (m)		

Historical Data:			
<b>Year Built</b>	<input type="text" value="1930"/>	<b>Year of Last Major Rehab.</b>	<input type="text" value=""/>
<b>Last OSIM Inspection</b>	<input type="text" value="2015"/>	<b>Last Evaluation</b>	<input type="text" value=""/>
<b>Last Enhanced OSIM Inspection</b>	<input type="text" value=""/>	<b>Current Load Limit</b>	<input type="text" value="14.0 / /"/> (tonnes)
<b>Enhanced Access Equipment</b>	<input type="text" value=""/>	<b>Load Limit By-Law #</b>	<input type="text" value="/ /"/>
<b>Last Underwater Inspection</b>	<input type="text" value=""/>	<b>By-Law Expiry Date</b>	<input type="text" value=""/>
<b>Last Condition Survey</b>	<input type="text" value=""/>		
<b>Rehab History: (Date/description)</b>			
North Barrier Wall Replaced - Date Unknown			

Scheduled Improvements:	
<b>Regional Priority Number</b> <input style="width: 80px;" type="text"/>	<b>Programmed Work Year</b> <input style="width: 80px;" type="text"/>
<b><i>Nature of Program Work:</i></b>	

Appraisal Indices:		Comments
<b>Fatigue</b>		
<b>Seismic</b>		
<b>Scour</b>		
<b>Flood</b>		
<b>Geometrics</b>		
<b>Barrier</b>		
<b>Curb</b>		
<b>Load Capacity</b>		

Field Inspection Information:			
<b>Date of Inspection:</b>	July 3, 2018	<b>Inspection Type</b>	OSIM
<b>Inspector:</b>	Ben Belfry		
<b>Others in Party:</b>	Sean Wetmore		
<b>Access Equipment Used:</b>	Tape, hammer, waders		
<b>Weather:</b>	Sunny		
<b>Temperature:</b>	32.0 °C		

Upcoming Inspections and Investigations:		
Due date	Priority	Comments

Additional Investigations Required:	Priority		
	None	Normal	Urgent
<b>Material Condition Survey</b>	✓		
<b>Detailed Deck Condition Survey:</b>	✓		
<b>Non-destructive Delamination Survey of Asphalt-Covered Deck:</b>	✓		
<b>Concrete Substructure Condition Survey:</b>	✓		
<b>Detailed Coating Condition Survey:</b>	✓		
<b>Detailed Timber Investigation</b>	✓		
<b>Post-Tensioned Strand Investigation</b>	✓		
<b>Underwater Investigation:</b>	✓		
<b>Fatigue Investigation:</b>	✓		
<b>Seismic Investigation:</b>	✓		
<b>Structure Evaluation:</b>	✓		
<b>Monitoring</b>	✓		
<b>Monitoring of Deformations, Settlements and Movements:</b>	✓		
<b>Monitoring Crack Widths:</b>	✓		

**Investigation Notes:**  
*None*

<b>Overall Structure Notes:</b>	
<b>Recommended Work on Structure:</b>	
<b>Timing of Recommended Work:</b>	<input type="checkbox"/> Urgent, <input type="checkbox"/> Now < 1 year, <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> > 10 years
<b>Overall Comments:</b>	New SBGR all four corners. Three attenuators and one turn off with fishtail on the south west side. New south barrier. Overall structure is in good condition.
<b>Date of Next Inspection:</b>	2020

<b>Overall Bridge Condition:</b>	69.47
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Recommended inspections and Investigations	Due date	Priority	Comments
Boat Inspection			
Bridge master			
Coating survey			
Detailed condition survey			
Evaluation			
Fatigue			
Monitor Settlements/Movements			
Seismic			
Substructure condition survey			
Underwater			

**Suspected Performance Deficiencies**

- |                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li><b>01</b> Load carrying capacity</li> <li><b>02</b> Excessive deformations (deflections &amp; rotations)</li> <li><b>03</b> Continuing settlement</li> <li><b>04</b> Continuing movements</li> <li><b>05</b> Seized bearings</li> </ul>                                                                                | <ul style="list-style-type: none"> <li><b>06</b> Bearing not uniformly loaded/unstable</li> <li><b>07</b> Jammed expansion joint</li> <li><b>08</b> Pedestrian/vehicular hazard</li> <li><b>09</b> Rough riding surface</li> <li><b>10</b> Surface ponding</li> <li><b>11</b> Deck drainage</li> </ul>         | <ul style="list-style-type: none"> <li><b>12</b> Slippery surfaces</li> <li><b>13</b> Flooding/channel blockage</li> <li><b>14</b> Undermining of foundation</li> <li><b>15</b> Unstable embankments</li> <li><b>16</b> Other</li> <li><b>17</b> None</li> </ul>                      |
| <p><b>Maintenance Needs</b></p> <ul style="list-style-type: none"> <li><b>01</b> Lift and Swing Bridge Maintenance</li> <li><b>02</b> Bridge Cleaning</li> <li><b>03</b> Bridge Handrail Maintenance</li> <li><b>04</b> Painting Steel Bridge Structures</li> <li><b>05</b> Bridge Deck Joint Repair</li> <li><b>06</b> Bridge Bearing Maintenance</li> </ul> | <ul style="list-style-type: none"> <li><b>07</b> Repair to Structural Steel</li> <li><b>08</b> Repair of Bridge Concrete</li> <li><b>09</b> Repair of Bridge Timber</li> <li><b>10</b> Bailey bridges - Maintenance</li> <li><b>11</b> Animal/Pest Control</li> <li><b>12</b> Bridge Surface Repair</li> </ul> | <ul style="list-style-type: none"> <li><b>13</b> Erosion Control at Bridges</li> <li><b>14</b> Concrete Sealing</li> <li><b>15</b> Rout and Seal</li> <li><b>16</b> Bridge Deck Drainage</li> <li><b>17</b> Scaling (Loose Concrete or ACR Steel)</li> <li><b>18</b> Other</li> </ul> |

### Element Data

<b>Element Group:</b>	Abutments					<b>Length:</b>	
<b>Element Name:</b>	Abutment walls					<b>Width:</b>	4.9 (m)
<b>Location:</b>	East and West					<b>Height:</b>	1.4 (m)
<b>Element Description:</b>	Abutment walls both sides.					<b>Count:</b>	2
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	13.7 (sq.m)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	sq.m	0.00	7.7	4.5	1.5	<b>BCI TEV:</b> 12330.0	<b>BCI CEV:</b> 6817.5
<b>Comments:</b>	Previous report noted severe undermining and scouring below all of east abutment and part of west. Unable to verify due to water level and addition of rip rap. Moderate scaling 0.2m above water level along both sides at high watermark. Small portion of exposed rebar behind first beam at north east corner.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>							

<b>Element Group:</b>	Accessories					<b>Length:</b>	
<b>Element Name:</b>	Signs					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	9
<b>Material:</b>						<b>Total Quantity:</b>	9.0 (each)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	each	4.0	0.00	4.0	1.0	<b>BCI TEV:</b> 900.0	<b>BCI CEV:</b> 560.0
<b>Comments:</b>	There is a 14 tonne load limit sign on west approach wth surface cracking throughout. 2 narrow bridge signs with single lane tab, one on each approach; and two (2) no exit sign upon west approach. 4 hazard warning signs at the roadside of each guide rail.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>  Replace max load sign					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>		<b>Timing</b>					
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace		<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input checked="" type="checkbox"/> Urgent					

<b>Element Group:</b>	Approaches					<b>Length:</b>	110.0 (m)
<b>Element Name:</b>	Barriers					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	0
<b>Material:</b>	Steel					<b>Total Quantity:</b>	110.0 (m)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	m	110.0	0.00	0.00	0.00	<b>BCI TEV:</b> 22000.0	<b>BCI CEV:</b> 22000.0
<b>Comments:</b>	Newly installed guide rail excellent condition						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>							

<b>Element Group:</b>	Approaches					<b>Length:</b>	6.0 (m)	
<b>Element Name:</b>	Wearing surface					<b>Width:</b>	4.2 (m)	
<b>Location:</b>	East and west					<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Asphalt					<b>Total Quantity:</b>	50.4 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	0.00	25.0	25.4	<b>BCI TEV: 302.4</b>	<b>BCI CEV: 60.0</b>	
<b>Comments:</b>	Severe settlement behind abutments, wide cracks along centreline of road, moderate pattern cracking along wheel tracks upon approach, ponding in depressions causing a lip up onto bridge.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b> Regrade and repave approaches.						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>		<b>Timing</b>						
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace		<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent						

<b>Element Group:</b>	Barriers					<b>Length:</b>	7.0 (m)	
<b>Element Name:</b>	Barrier/Parapet Walls					<b>Width:</b>		
<b>Location:</b>	Exterior					<b>Height:</b>	0.9 (m)	
<b>Element Description:</b>						<b>Count:</b>	1	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	12.6 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	6.3	6.3	0.00	0.00	<b>BCI TEV: 1260.0</b>	<b>BCI CEV: 1102.5</b>	
<b>Comments:</b>	Light scaling and efflorescence throughout cold joint at interface with curb on North barrier. South barrier in excellent condition.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Barriers					<b>Length:</b>	7.0 (m)	
<b>Element Name:</b>	Barrier/Parapet Walls					<b>Width:</b>	0.15 (m)	
<b>Location:</b>	Interior					<b>Height:</b>	0.9 (m)	
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	14.8 (sq.m)	
<b>Element Type:</b>	Parpet Wall without Railing					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	7.4	7.0	0.4	0.00	<b>BCI TEV:</b> 1480.0	<b>BCI CEV:</b> 1281.0	
<b>Comments:</b>	Minor bugholes. Moderate impact damage at north east quadrant. Barrier has been rehabilitated. South barrier recently replaced, in excellent condition.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<p><b>Comments</b></p> <p>Repair areas of deficient concrete.</p> <p><b>Type</b></p> <p><input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace</p> <p><b>Timing</b></p> <p><input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now &lt; 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent</p>						<p><input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent</p>		

<b>Element Group:</b>	Beams/Main Longitudinal Elements					<b>Length:</b>	6.3 (m)	
<b>Element Name:</b>	Girders					<b>Width:</b>	0.3 (m)	
<b>Location:</b>						<b>Height:</b>	0.46 (m)	
<b>Element Description:</b>	Cip box girders					<b>Count:</b>	4	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	30.7 (sq.m)	
<b>Element Type:</b>	Box girder					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	0.00	29.5	1.2	<b>BCI TEV:</b> 6140.0	<b>BCI CEV:</b> 2360.0	
<b>Comments:</b>	Moderate honeycombing on interior girders at cold joints, light to moderate scaling, minor spalling and cracking as well as light efflorescence at mid span also present.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<p><b>Comments</b></p> <p>Concrete Repairs</p> <p><b>Type</b></p> <p><input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace</p> <p><b>Timing</b></p> <p><input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now &lt; 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent</p>						<p><input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent</p>		

<b>Element Group:</b>	Decks	<b>Length:</b>	7.0 (m)		
<b>Element Name:</b>	Deck Top	<b>Width:</b>	4.9 (m)		
<b>Location:</b>		<b>Height:</b>			
<b>Element Description:</b>	Desk top, concrete	<b>Count:</b>	1		
<b>Material:</b>	Cast-In-Place Concrete	<b>Total Quantity:</b>	34.3 (sq.m)		
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>		<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>
	sq.m	0.00	0.00	34.0	0.3
<b>BCI TEV:</b>	4116.0		<b>BCI CEV:</b>		1632.0
<b>Comments:</b>	Exposed concrete deck top. One severe and one medium transverse crack. Small web products through predominately on the west side.				
<b>Recommended work:</b>			<b>Maintenance Needs:</b>		
<b>Comments</b> Concrete crack repair.			<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>	<b>Timing</b>				
<input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace	<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent				

<b>Element Group:</b>	Decks	<b>Length:</b>			
<b>Element Name:</b>	Drainage System	<b>Width:</b>			
<b>Location:</b>		<b>Height:</b>			
<b>Element Description:</b>	Holes in deck uncovered	<b>Count:</b>	4		
<b>Material:</b>	Cast In Place Concrete	<b>Total Quantity:</b>	4.0 (each)		
<b>Element Type:</b>	Holes in Deck	<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>		<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>
	each	0.00	0.00	0.00	4.0
<b>BCI TEV:</b>			<b>BCI CEV:</b>		
<b>Comments:</b>	All are clear and fully functioning.				
<b>Recommended work:</b>			<b>Maintenance Needs:</b>		
<b>Comments</b> Install drains and extend beyond soffit and girders.			<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>	<b>Timing</b>				
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace	<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input checked="" type="checkbox"/> Urgent				

<b>Element Group:</b>	Decks					<b>Length:</b>	6.3 (m)	
<b>Element Name:</b>	Soffit - Thin Slab					<b>Width:</b>	0.35 (m)	
<b>Location:</b>	Exterior/Fascia					<b>Height:</b>	0.6 (m)	
<b>Element Description:</b>	South exterior soffit with light efflorescence and hairline cracking.					<b>Count:</b>	2	
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	11.97 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	0.00	11.95	0.02	<b>BCI TEV:</b> 1436.4		<b>BCI CEV:</b> 573.6
<b>Comments:</b>	Light spalling and efflorescence on curb fascia, hairline cracking, light honeycombing on cold joint with fascia. Fracture on exterior north east side due to tightening of new rail.							
<b>Recommended work:</b>					<b>Maintenance Needs:</b>			
<b>Comments</b> Repair concrete.					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type</b>		<b>Timing</b>						
<input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace		<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent						

<b>Element Group:</b>	Decks					<b>Length:</b>	6.3 (m)	
<b>Element Name:</b>	Soffit - Thin Slab					<b>Width:</b>	3.0 (m)	
<b>Location:</b>	Interior					<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	1	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	18.9 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	0.00	13.9	5.0	<b>BCI TEV:</b> 2268.0		<b>BCI CEV:</b> 667.2
<b>Comments:</b>	Moderate honeycombing near center of soffit, with moderate spalling with exposed rebar, delamination about to spall, and light cracking localized throughout, and 1 Sq.m of moisture staining							
<b>Recommended work:</b>					<b>Maintenance Needs:</b>			
<b>Comments</b> Concrete patch repairs					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type</b>		<b>Timing</b>						
<input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace		<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent						

<b>Element Group:</b>	Embankments & Streams					<b>Length:</b>	
<b>Element Name:</b>	Embankments					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	4
<b>Material:</b>	Gravel					<b>Total Quantity:</b>	4.0
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	15. Unstable embankments	
	each	0.00	1.0	3.0	0.00	<b>BCI TEV:</b> 4000.0	<b>BCI CEV:</b> 1950.0
<b>Comments:</b>	Wash out at north east interface of bridge concrete to asphalt approach and gravel embankment. Other quadrants are in fair condition.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b> Patch asphalt						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type</b> <input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace		<b>Timing</b> <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent					

<b>Element Group:</b>	Embankments & Streams					<b>Length:</b>	
<b>Element Name:</b>	Streams and Waterways					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	1
<b>Material:</b>						<b>Total Quantity:</b>	1.0
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	all	0.00	1.0	0.00	0.00	<b>BCI TEV:</b> 1000.0	<b>BCI CEV:</b> 750.0
<b>Comments:</b>	Large unknown blockage in watercourse under bridge. Does not appear to be obstructing flow through the structure.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 18 - Other	
<b>Comments</b>						<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent  Remove blockage from watercourse.	
<b>Type Timing</b>							

<b>Element Group:</b>	Sidewalks/curbs					<b>Length:</b>	7.0 (m)	
<b>Element Name:</b>	Curbs					<b>Width:</b>	0.1 (m)	
<b>Location:</b>	North and South					<b>Height:</b>	0.15 (m)	
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	3.5 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	08. Pedestrian/vehicular hazard		
	sq.m	0.00	2.6	1.5	0.5	<b>BCI TEV:</b> 140.0		<b>BCI CEV:</b> 102.0
<b>Comments:</b>	Abrasion and narrow transverse cracks throughout. Steel beam guide rail installation cause severe crack on north east curb.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 14. Concrete Sealing		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input checked="" type="checkbox"/> Urgent		
<b>Type Timing</b>						Seal NE crack		

\* A quantity must be estimated using the appropriate unit (e.g. sq.m.). Percent should not be used.

Repair and Rehabilitation Required		Priority					Estimated Cost
Element	Repair and Rehabilitation Required	> 10 years	6 - 10 years	1 - 5 years	Now < 1 year	Urgent	
Curb	Seal NE crack					✓	\$2,000.00
Embankments	Patch asphalt at NE quadrant			✓			\$1,000.00
Deck Drainage	Install drains extending beyond soffit and girders					✓	\$5,000.00
Deck	Concrete crack repair			✓			\$30,000.00
Girders	Concrete repair			✓			\$10,000.00
Post (South)	Repair concrete			✓			\$1,000.00
Parapet (North (Interior))	Repair areas of deficient concrete			✓			\$5,000.00
Approach Wearing surface	Regrade and repave approaches			✓			\$10,000.00
Signs	Replace max load sign					✓	\$500.00
<b>Total</b>							\$64,500.00

Associated Work	Comments	Estimated Cost
<b>Approaches</b>		
<b>Detours</b>		
<b>Traffic Control</b>		
<b>Utilities</b>		
<b>Eng Design and Supervision</b>		
<b>Environmental Study</b>		
<b>Other</b>		
<b>Contingencies</b>		
<b>Total</b>		

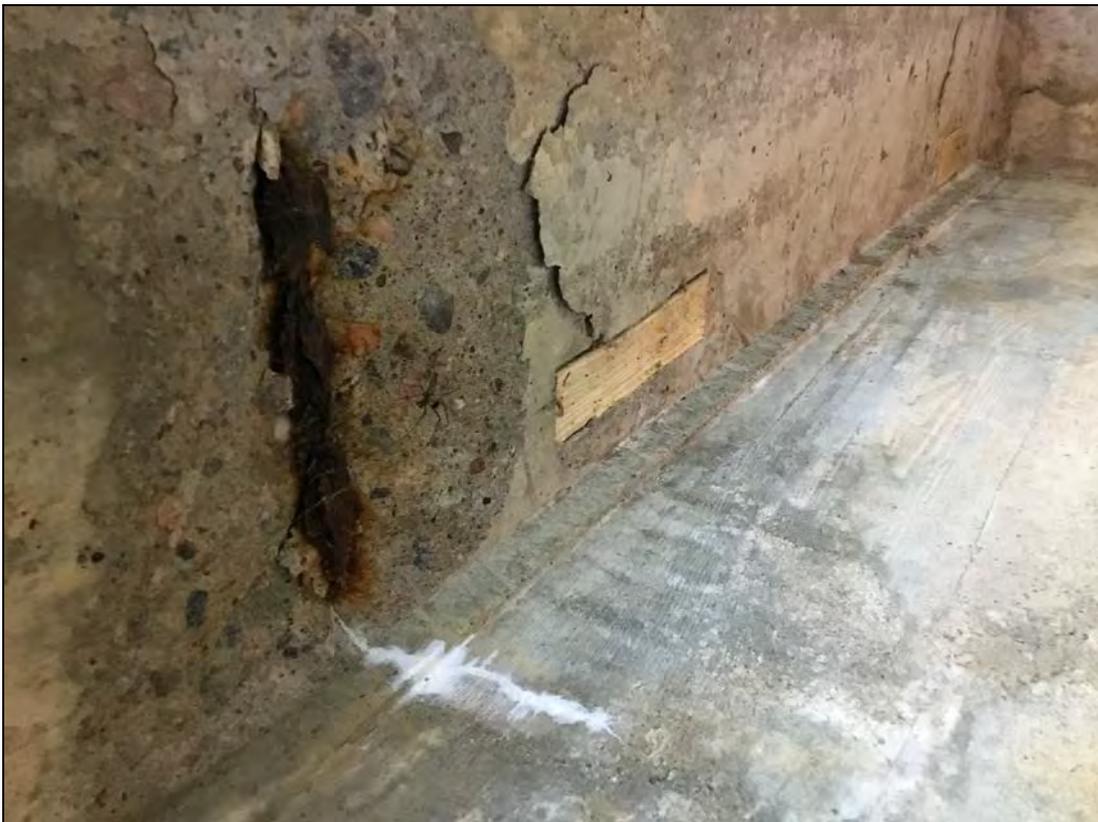


**Description: Looking East**





**Abutments / Abutment walls (East and West)**



**Description: NE**

**Abutments / Abutment walls (East and West)**



**Abutments / Abutment walls (East and West)**



**Description: West approach max load sign**

**Accessories / Signs**



**Description: Severe longitudinal crack down centre line of W approach Approaches / Wearing surface (East and west)**



**Description: Settling at approach to deck interface, behind abutment Approaches / Wearing surface (East and west)**



**Description: N**  
**Barriers / Barrier/Parapet Walls (Exterior)**



**Barriers / Barrier/Parapet Walls (Interior)**



**Beams/Main Longitudinal Elements / Girders**



**Beams/Main Longitudinal Elements / Girders**



**Description: Severe crack NE**  
**Sidewalks/curbs / Curbs (North and South)**



**Decks / Drainage System**



**Decks / Deck Top**



**Description: N**

**Decks / Soffit - Thin Slab (Exterior/Fascia)**

<b>Inventory Data:</b>			
<b>Structure Name</b> <input style="width: 90%;" type="text" value="Bridge 09 CN Rail Overhead"/>			
<b>Main Hwy/Road #</b> <input style="width: 150px;" type="text"/>		<input checked="" type="checkbox"/> On <input type="checkbox"/> Under	
<b>Crossing Type:</b> <input type="checkbox"/> Navi. Water, <input type="checkbox"/> Non-Navi. Water, <input checked="" type="checkbox"/> Rail, <input type="checkbox"/> Road, <input type="checkbox"/> Ped., <input type="checkbox"/> Other, <input type="checkbox"/> Over water, <input type="checkbox"/> Over Road, <input type="checkbox"/> Under railway, <input type="checkbox"/> Unknown, <input type="checkbox"/> Over railway, <input type="checkbox"/> Under Road			
<b>Hwy/Road Name</b> <input style="width: 90%;" type="text" value="Lakewood Park Road"/>			
<b>Structure Location</b> <input style="width: 90%;" type="text" value="0.3km North of District Road 3"/>			
<b>Latitude</b> <input n"="" style="width: 150px;" type="text" value="45° 18' 55"/>		<b>Longitude</b> <input style="width: 150px;" type="text" value="79° 14' 46" w"=""/>	
<b>Northing</b> <input style="width: 150px;" type="text"/>		<b>Easting</b> <input style="width: 150px;" type="text"/>	
<b>Owner(s)</b> <input style="width: 150px;" type="text" value="Town of Huntsville"/>		<b>Heritage designation:</b> <input checked="" type="checkbox"/> Not Cons., <input type="checkbox"/> Cons./not App., <input type="checkbox"/> List/not Desig., <input type="checkbox"/> Desig./not List, <input type="checkbox"/> Desig. & List	
<b>MTO Region</b> <input style="width: 150px;" type="text" value="Northeastern"/>		<b>Road Class:</b> <input type="checkbox"/> Freeway, <input type="checkbox"/> Arterial, <input type="checkbox"/> Collector, <input type="checkbox"/> Collector Residential, <input type="checkbox"/> Collector Commercial, <input type="checkbox"/> Local, <input type="checkbox"/> Local Residential, <input type="checkbox"/> Local Commercial, <input type="checkbox"/> Rural Expressways, <input type="checkbox"/> Alleyways, <input type="checkbox"/> 4 or more lanes	
<b>MTO District</b> <input style="width: 150px;" type="text" value="Huntsville"/>	<b>Posted Speed</b> <input style="width: 50px;" type="text"/>	<b>No. of Lanes</b>	<input style="width: 50px;" type="text" value="2"/>
<b>Old County</b> <input style="width: 150px;" type="text" value="Simcoe-Muskoka"/>	<b>AADT</b> <input style="width: 50px;" type="text" value="486.0"/>	<b>% Trucks</b>	<input style="width: 50px;" type="text"/>
<b>Geographic Twp.</b> <input style="width: 150px;" type="text" value="Brunel"/>	<b>Inspection Route Sequence</b> <input style="width: 150px;" type="text"/>		
<b>Structure Type</b> <input style="width: 150px;" type="text" value="Concrete Slab on Precast Grider"/>	<b>Interchange Number</b> <input style="width: 150px;" type="text"/>		
<b>Total Deck Length</b> <input style="width: 50px;" type="text" value="60.5"/> (m)	<b>Interchange Structure Number</b> <input style="width: 150px;" type="text"/>		
<b>Overall Str. Width</b> <input style="width: 50px;" type="text" value="11.0"/> (m)	<b>Min. Vertical Clearance</b> <input style="width: 150px;" type="text"/> (m)		
<b>Total Deck Area</b> <input style="width: 50px;" type="text" value="665.5"/> (sq.m)	<b>Special Routes:</b> <input type="checkbox"/> Transit, <input type="checkbox"/> Truck, <input type="checkbox"/> School, <input type="checkbox"/> Bicycle, <input type="checkbox"/> Emergency, <input type="checkbox"/> Commuter		
<b>Roadway Width</b> <input style="width: 50px;" type="text" value="8.5"/> (m)	<b>Detour Length Around Bridge</b> <input style="width: 50px;" type="text" value="N/A"/> (km)		
<b>Skew Angle</b> <input style="width: 50px;" type="text" value="0"/> (Degrees)	<b>Direction of Structure</b> <input style="width: 150px;" type="text" value="South to North"/>		
<b>No. of Spans</b> <input style="width: 50px;" type="text" value="3"/>	<b>Fill on Structure</b> <input style="width: 150px;" type="text"/> (m)		
<b>Span Lengths</b> <input style="width: 90%;" type="text" value="23.3, 16.7, 20.6"/> (m)			

<b>Historical Data:</b>			
<b>Year Built</b>	<input style="width: 50px;" type="text" value="1980"/>	<b>Year of Last Major Rehab.</b>	<input style="width: 50px;" type="text"/>
<b>Last OSIM Inspection</b>	<input style="width: 50px;" type="text" value="2015"/>	<b>Last Evaluation</b>	<input style="width: 50px;" type="text"/>
<b>Last Enhanced OSIM Inspection</b>	<input style="width: 50px;" type="text"/>	<b>Current Load Limit</b>	<input style="width: 50px;" type="text" value="/ /"/> (tonnes)
<b>Enhanced Access Equipment</b>	<input style="width: 50px;" type="text"/>	<b>Load Limit By-Law #</b>	<input style="width: 50px;" type="text" value="/ /"/>
<b>Last Underwater Inspection</b>	<input style="width: 50px;" type="text"/>	<b>By-Law Expiry Date</b>	<input style="width: 50px;" type="text"/>
<b>Last Condition Survey</b>	<input style="width: 50px;" type="text"/>		
<b>Rehab History: (Date/description)</b>			

Scheduled Improvements:	
<b>Regional Priority Number</b> <input style="width: 80px;" type="text"/>	<b>Programmed Work Year</b> <input style="width: 80px;" type="text"/>
<b><i>Nature of Program Work:</i></b>	

Appraisal Indices:		Comments
<b>Fatigue</b>		
<b>Seismic</b>		
<b>Scour</b>		
<b>Flood</b>		
<b>Geometrics</b>		
<b>Barrier</b>		
<b>Curb</b>		
<b>Load Capacity</b>		

Field Inspection Information:			
<b>Date of Inspection:</b>	July 11, 2018	<b>Inspection Type</b>	OSIM
<b>Inspector:</b>	Ben Belfry		
<b>Others in Party:</b>	Sean Wetmore		
<b>Access Equipment Used:</b>	Rod tape hammer		
<b>Weather:</b>	Sunny		
<b>Temperature:</b>	24.0 °C		

Upcoming Inspections and Investigations:		
Due date	Priority	Comments

Additional Investigations Required:	Priority		
	None	Normal	Urgent
<b>Material Condition Survey</b>	✓		
<b>Detailed Deck Condition Survey:</b>	✓		
<b>Non-destructive Delamination Survey of Asphalt-Covered Deck:</b>	✓		
<b>Concrete Substructure Condition Survey:</b>	✓		
<b>Detailed Coating Condition Survey:</b>	✓		
<b>Detailed Timber Investigation</b>	✓		
<b>Post-Tensioned Strand Investigation</b>	✓		
<b>Underwater Investigation:</b>	✓		
<b>Fatigue Investigation:</b>	✓		
<b>Seismic Investigation:</b>	✓		
<b>Structure Evaluation:</b>	✓		
<b>Monitoring</b>	✓		
<b>Monitoring of Deformations, Settlements and Movements:</b>	✓		
<b>Monitoring Crack Widths:</b>	✓		

**Investigation Notes:**  
*None*

<b>Overall Structure Notes:</b>	
<b>Recommended Work on Structure:</b>	
<b>Timing of Recommended Work:</b>	<input type="checkbox"/> Urgent, <input type="checkbox"/> Now < 1 year, <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> > 10 years
<b>Overall Comments:</b>	Structure is in good condition
<b>Date of Next Inspection:</b>	2020

<b>Overall Bridge Condition:</b>	69.54
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Recommended inspections and Investigations	Due date	Priority	Comments
<b>Boat Inspection</b>			
<b>Bridge master</b>			
<b>Coating survey</b>			
<b>Detailed condition survey</b>			
<b>Evaluation</b>			
<b>Fatigue</b>			
<b>Monitor Settlements/Movements</b>			
<b>Seismic</b>			
<b>Substructure condition survey</b>			
<b>Underwater</b>			

**Suspected Performance Deficiencies**

- |                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li><b>01</b> Load carrying capacity</li> <li><b>02</b> Excessive deformations (deflections &amp; rotations)</li> <li><b>03</b> Continuing settlement</li> <li><b>04</b> Continuing movements</li> <li><b>05</b> Seized bearings</li> </ul>                                                | <ul style="list-style-type: none"> <li><b>06</b> Bearing not uniformly loaded/unstable</li> <li><b>07</b> Jammed expansion joint</li> <li><b>08</b> Pedestrian/vehicular hazard</li> <li><b>09</b> Rough riding surface</li> <li><b>10</b> Surface ponding</li> <li><b>11</b> Deck drainage</li> </ul>         | <ul style="list-style-type: none"> <li><b>12</b> Slippery surfaces</li> <li><b>13</b> Flooding/channel blockage</li> <li><b>14</b> Undermining of foundation</li> <li><b>15</b> Unstable embankments</li> <li><b>16</b> Other</li> <li><b>17</b> None</li> </ul>                      |
| <b>Maintenance Needs</b>                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li><b>01</b> Lift and Swing Bridge Maintenance</li> <li><b>02</b> Bridge Cleaning</li> <li><b>03</b> Bridge Handrail Maintenance</li> <li><b>04</b> Painting Steel Bridge Structures</li> <li><b>05</b> Bridge Deck Joint Repair</li> <li><b>06</b> Bridge Bearing Maintenance</li> </ul> | <ul style="list-style-type: none"> <li><b>07</b> Repair to Structural Steel</li> <li><b>08</b> Repair of Bridge Concrete</li> <li><b>09</b> Repair of Bridge Timber</li> <li><b>10</b> Bailey bridges - Maintenance</li> <li><b>11</b> Animal/Pest Control</li> <li><b>12</b> Bridge Surface Repair</li> </ul> | <ul style="list-style-type: none"> <li><b>13</b> Erosion Control at Bridges</li> <li><b>14</b> Concrete Sealing</li> <li><b>15</b> Rout and Seal</li> <li><b>16</b> Bridge Deck Drainage</li> <li><b>17</b> Scaling (Loose Concrete or ACR Steel)</li> <li><b>18</b> Other</li> </ul> |

### Element Data

<b>Element Group:</b>	Abutments					<b>Length:</b>			
<b>Element Name:</b>	Abutment Walls					<b>Width:</b>	17.8 (m)		
<b>Location:</b>	South Abutment					<b>Height:</b>	2.7 (m)		
<b>Element Description:</b>	N/A					<b>Count:</b>	1		
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	48.1 (sq.m)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	sq.m	0.00	47.1	1.0	0.00	<b>BCI TEV:</b> 43290.0		<b>BCI CEV:</b> 32152.5	
<b>Comments:</b>	In good condition some hairline to narrow cracking, wet due to water leakage noted from joints above, minor bug holes and moderate graffiti.								
<b>Recommended work:</b>						<b>Maintenance Needs:</b>			
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type Timing</b>									

<b>Element Group:</b>	Abutments					<b>Length:</b>			
<b>Element Name:</b>	Abutment Walls					<b>Width:</b>	14.7 (m)		
<b>Location:</b>	North Abutment					<b>Height:</b>	3.0 (m)		
<b>Element Description:</b>	N/A					<b>Count:</b>	1		
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	44.1 (sq.m)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	sq.m	0.00	44.1	0.00	0.00	<b>BCI TEV:</b> 39690.0		<b>BCI CEV:</b> 29767.5	
<b>Comments:</b>	Graffiti and hairline to narrow cracks noted. Overall in good condition.								
<b>Recommended work:</b>						<b>Maintenance Needs:</b>			
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type Timing</b>									

<b>Element Group:</b>	Abutments					<b>Length:</b>	
<b>Element Name:</b>	Ballast Walls					<b>Width:</b>	16.25 (m)
<b>Location:</b>	North and South					<b>Height:</b>	1.4 (m)
<b>Element Description:</b>						<b>Count:</b>	2
<b>Material:</b>	Cast-In-Place					<b>Total Quantity:</b>	45.5 (sq.m)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	sq.m	0.00	40.0	5.2	0.3	<b>BCI TEV:</b> 15925.0	<b>BCI CEV:</b> 11228.0
<b>Comments:</b>	South wall one small spall with exposed rebar. Minor pattern cracking at ends from past water leakage off deck. Some small spots of efflorescence.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type</b>		<b>Timing</b>					
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace		<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent					

<b>Element Group:</b>	Abutments					<b>Length:</b>	
<b>Element Name:</b>	Bearings					<b>Width:</b>	
<b>Location:</b>	North and South					<b>Height:</b>	
<b>Element Description:</b>	South abutment bearing pad with light cracking.					<b>Count:</b>	10
<b>Material:</b>	Elastomeric Pad					<b>Total Quantity:</b>	10.0
<b>Element Type:</b>	Elastomeric Pad					<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	each	0.00	0.00	10.0	0.00	<b>BCI TEV:</b> 10000.0	<b>BCI CEV:</b> 4000.0
<b>Comments:</b>	Bearings in overall fair condition, with minor cracking and deterioration. Southwest bearing showing most deterioration (pictured).						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type</b>		<b>Timing</b>					

<b>Element Group:</b>	Abutments					<b>Length:</b>	5.5 (m)	
<b>Element Name:</b>	Wingwalls					<b>Width:</b>		
<b>Location:</b>	4 Corners of Structure					<b>Height:</b>	1.5 (m)	
<b>Element Description:</b>	N/A					<b>Count:</b>	4	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	33.0 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	33.0	0.00	0.00	<b>BCI TEV:</b> 11550.0	<b>BCI CEV:</b> 285863.0	
<b>Comments:</b>	Minor hairline pattern cracking, with moisture and light efflorescence from splash above.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Accessories					<b>Length:</b>		
<b>Element Name:</b>	Signs					<b>Width:</b>		
<b>Location:</b>						<b>Height:</b>		
<b>Element Description:</b>	Bridge ices north and south approaches					<b>Count:</b>	2	
<b>Material:</b>	Steel					<b>Total Quantity:</b>	2.0	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	each	0.00	2.0	0.00	0.00	<b>BCI TEV:</b> 200.0	<b>BCI CEV:</b> 150.0	
<b>Comments:</b>	Two Bridge Ices signs are present. Both are leaning/dislocated. North bridges ices sign is bent at the post.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 17. Other		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input checked="" type="checkbox"/> Urgent		
<b>Type</b>		<b>Timing</b>				Install Object Warning Marker signs at south buried guide rail ends.		
<input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace		<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input checked="" type="checkbox"/> Urgent						

<b>Element Group:</b>	Approaches					<b>Length:</b>	162.0 (m)	
<b>Element Name:</b>	Barriers					<b>Width:</b>		
<b>Location:</b>	West					<b>Height:</b>		
<b>Element Description:</b>	SBGR south end,					<b>Count:</b>	1	
<b>Material:</b>	Steel/Timber					<b>Total Quantity:</b>	162.0 (m)	
<b>Element Type:</b>	3-Cable Guide Rail on Wood Posts					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	8 - Pedestrian / vehicular hazard		
	m	0.00	113.4	0.00	48.6	<b>BCI TEV:</b> 32400.0		<b>BCI CEV:</b> 17010.0
<b>Comments:</b>	Southeast SBGR posts show rot with 30% rotated blocks. Post and cable system slackened. Posts broken at base, with some posts showing severe deterioration.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b> Replace cable system with SBGR.						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>		<b>Timing</b>						
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace		<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent						

<b>Element Group:</b>	Approaches					<b>Length:</b>	139.8 (m)	
<b>Element Name:</b>	Barriers					<b>Width:</b>		
<b>Location:</b>	East					<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	1	
<b>Material:</b>	Steel					<b>Total Quantity:</b>	139.8 (m)	
<b>Element Type:</b>	Steel Flex Beam on Wood Post					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	m	0.00	124.2	0.00	15.6	<b>BCI TEV:</b> 27960.0		<b>BCI CEV:</b> 18630.0
<b>Comments:</b>	Northeast is made of 12 wood post and blocks in good condition. Corrosion of lower beam at wood blocks. SBGR extends entire length of road. In following 24 posts with steel posts SBGR is in good condition. Southwest SBGR on 16 posts in good condition with 5 rotated blocks and signs of minor rot on tops of main posts.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Approaches	<b>Length:</b>	5.0 (m)		
<b>Element Name:</b>	Curb and Gutters	<b>Width:</b>			
<b>Location:</b>		<b>Height:</b>	0.2 (m)		
<b>Element Description:</b>		<b>Count:</b>	4		
<b>Material:</b>	Cast In Place Concrete	<b>Total Quantity:</b>	4.0 (sq.m)		
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>		<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>
	sq.m	0.00	3.0	0.75	0.25
<b>Comments:</b>	Six narrow cracks. Scraping damage and abrasion throughout. Southwest curb corner broken at connection to barrier wall.				<b>BCI TEV:</b> 100.0 <b>BCI CEV:</b> 63.75
<b>Recommended work:</b>			<b>Maintenance Needs:</b>		
<b>Comments</b> Concrete repair.			<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b> <input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace					
<b>Timing</b> <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent					

<b>Element Group:</b>	Approaches	<b>Length:</b>			
<b>Element Name:</b>	Drainage System	<b>Width:</b>			
<b>Location:</b>	NW, SE, SW	<b>Height:</b>			
<b>Element Description:</b>	Double cbs at sw and nw of structure outlet to csps	<b>Count:</b>	6		
<b>Material:</b>	Steel	<b>Total Quantity:</b>	6.0 (each)		
<b>Element Type:</b>	Catch Basins	<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>		<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>
	each	0.00	6.0	0.00	0.00
<b>Comments:</b>	Double Catch Basins are in good condition. Gutters on both sides on north approach in good condition.				<b>BCI TEV:</b> 30.0 <b>BCI CEV:</b> 22.5
<b>Recommended work:</b>			<b>Maintenance Needs:</b> 2 - Bridge Cleaning		
<b>Comments</b>			<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>					
Clean out catch basins during curb and gutter cleaning.					

<b>Element Group:</b>	Approaches					<b>Length:</b>	11.0 (m)	
<b>Element Name:</b>	Sidewalk/Curbs					<b>Width:</b>	1.5 (m)	
<b>Location:</b>	NW & SW Approaches					<b>Height:</b>	0.2 (m)	
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Asphalt					<b>Total Quantity:</b>	33.0 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	31.0	2.0	0.00	<b>BCI TEV:</b> 1980.0		<b>BCI CEV:</b> 1443.0
<b>Comments:</b>	Some curb abrasion and light asphalt cracking. Drainage erosion at northeast quadrant interface with concrete bridge.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input checked="" type="checkbox"/> Urgent		
<b>Type Timing</b>						Add asphalt patch to corner of northeast sidewalk for pedestrian safety.		

<b>Element Group:</b>	Approaches					<b>Length:</b>	6.0 (m)	
<b>Element Name:</b>	Wearing surface					<b>Width:</b>	8.5 (m)	
<b>Location:</b>	North and West					<b>Height:</b>		
<b>Element Description:</b>	.					<b>Count:</b>	2	
<b>Material:</b>	Asphalt					<b>Total Quantity:</b>	102.0 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	67.5	11.1	23.4	<b>BCI TEV:</b> 612.0		<b>BCI CEV:</b> 330.39
<b>Comments:</b>	Transverse cracks at north end, one severe crack. Interrupted medium longitudinal cracks. Severe longitudinal crack at south approach with two light to medium interrupted transverse cracks.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 15 - Rout and Seal		
<b>Comments</b>						<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>						Rout and Seal.		
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace		<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent						

<b>Element Group:</b>	Barriers					<b>Length:</b>	75.0 (m)	
<b>Element Name:</b>	Barrier/Parapet Walls					<b>Width:</b>	0.15 (m)	
<b>Location:</b>	Exterior					<b>Height:</b>	0.8 (m)	
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	120.0 (sq.m)	
<b>Element Type:</b>	Parapet Wall with Single Railing.					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	119.9	0.00	0.1	<b>BCI TEV:</b> 12000.0	<b>BCI CEV:</b> 8992.5	
<b>Comments:</b>	Minor pattern cracking throughout, minor bug holes. Large crack and delamination at northwest guiderail connection.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Barriers					<b>Length:</b>	75.0 (m)	
<b>Element Name:</b>	Barrier/Parapet Walls					<b>Width:</b>	0.15 (m)	
<b>Location:</b>	Interior					<b>Height:</b>	0.8 (m)	
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	120.0 (sq.m)	
<b>Element Type:</b>	Parapet Wall with Single Railing					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	119.0	0.78	0.22	<b>BCI TEV:</b> 12000.0	<b>BCI CEV:</b> 8956.2	
<b>Comments:</b>	Minor pattern cracking throughout, minor bugholes. 1 small area of honeycombing and 1 section of cracked material on end post of parapet wall in Northwest quadrant in connection to guiderail.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b> <input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace								
<b>Timing</b> <input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent								

<b>Element Group:</b>	Barriers					<b>Length:</b>	73.9 (m)		
<b>Element Name:</b>	Hand Railings					<b>Width:</b>			
<b>Location:</b>	East and West					<b>Height:</b>			
<b>Element Description:</b>						<b>Count:</b>	2		
<b>Material:</b>	Steel					<b>Total Quantity:</b>	147.8 (m)		
<b>Element Type:</b>	Single Railing					<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>	Hot-dipped Galvanizing					<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	m	0.00	132.5	15.3	0.00	<b>BCI TEV:</b> 14780.0		<b>BCI CEV:</b> 10549.5	
<b>Comments:</b>	Newly replaced connections to parapet wall. Lightly weathered but in good condition. Slight loss of galvanizing. 15.3 m of handrail beginning to rust. Rest in good condition.								
<b>Recommended work:</b>					<b>Maintenance Needs:</b>				
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent				
<b>Type Timing</b>									

<b>Element Group:</b>	Beams/Main Longitudinal Elements					<b>Length:</b>	0.5		
<b>Element Name:</b>	Diaphragms					<b>Width:</b>			
<b>Location:</b>	At north and south abutments.					<b>Height:</b>	1.0		
<b>Element Description:</b>						<b>Count:</b>	8		
<b>Material:</b>	Cast-in-place concrete					<b>Total Quantity:</b>	8.0 (each)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	each	0.00	0.00	8.0	0.00	<b>BCI TEV:</b>		<b>BCI CEV:</b>	
<b>Comments:</b>	North diagram showing scaling and extensive delamination at bottom. Southwest diaphragm showing minor scaling.								
<b>Recommended work:</b>					<b>Maintenance Needs:</b>				
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent				
<b>Type Timing</b>									
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace					<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent				

<b>Element Group:</b>	Beams/Main Longitudinal Elements					<b>Length:</b>	
<b>Element Name:</b>	Diaphragms					<b>Width:</b>	
<b>Location:</b>	Middle					<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	20
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	20.0 (each)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	each	0.00	20.0	0.00	0.00	<b>BCI TEV:</b>	<b>BCI CEV:</b>
<b>Comments:</b>	In good condition, some concrete surfaces adjacent to the soffit are wet.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>							

<b>Element Group:</b>	Beams/Main Longitudinal Elements					<b>Length:</b>	54.5 (m)
<b>Element Name:</b>	Girders					<b>Width:</b>	0.56 (m)
<b>Location:</b>	Middle					<b>Height:</b>	1.14 (m)
<b>Element Description:</b>						<b>Count:</b>	5
<b>Material:</b>	Precast Concrete					<b>Total Quantity:</b>	1079.1 (sq.m)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	sq.m	0.00	1079.1	0.00	0.00	<b>BCI TEV: 215820.0</b>	<b>BCI CEV: 161865.0</b>
<b>Comments:</b>	In good condition.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>							

<b>Element Group:</b>	Beams/Main Longitudinal Elements					<b>Length:</b>	3.0 (m)	
<b>Element Name:</b>	Girders					<b>Width:</b>	0.56 (m)	
<b>Location:</b>	Ends					<b>Height:</b>	1.14 (m)	
<b>Element Description:</b>						<b>Count:</b>	0	
<b>Material:</b>	Precast Concrete					<b>Total Quantity:</b>	118.8 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	117.8	0.00	1.0	<b>BCI TEV:</b> 23760.0	<b>BCI CEV:</b> 17670.0	
<b>Comments:</b>	End of southwest girder has moderate spall and exposed rebar. Narrow cracks and signs of water leakage at southeast outer girder.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b> Concrete repair at southwest girder ends.						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>		<b>Timing</b>						
<input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace		<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent						

<b>Element Group:</b>	Decks					<b>Length:</b>	60.5 (m)	
<b>Element Name:</b>	Deck Top					<b>Width:</b>	8.5 (m)	
<b>Location:</b>						<b>Height:</b>		
<b>Element Description:</b>	N/A					<b>Count:</b>	0	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	514.3 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	0.00	514.3	0.00	<b>BCI TEV:</b> 61716.0	<b>BCI CEV:</b> 24686.4	
<b>Comments:</b>	Limited inspection because of asphalt wearing surface overtop of top deck.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Decks					<b>Length:</b>	2.0 (m)	
<b>Element Name:</b>	Soffit - Thin Slab					<b>Width:</b>	9.57 (m)	
<b>Location:</b>	Ends					<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	38.2 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	38.2	0.00	0.1	<b>BCI TEV:</b> 4584.0	<b>BCI CEV:</b> 3438.0	
<b>Comments:</b>	Minor scaling and signs of past leakage at southeast side. Large pop out and encrustations on southwest side.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Decks					<b>Length:</b>	56.5 (m)	
<b>Element Name:</b>	Soffit - Thin Slab					<b>Width:</b>	9.0 (m)	
<b>Location:</b>	Interior					<b>Height:</b>		
<b>Element Description:</b>	Interior soffit under south span.					<b>Count:</b>	1	
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	508.5 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	508.5	0.00	0.00	<b>BCI TEV:</b> 61020.0	<b>BCI CEV:</b> 45765.0	
<b>Comments:</b>	Good Condition. Limited due to inaccessibility.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								



<b>Element Group:</b>	Embankments & Streams	<b>Length:</b>					
<b>Element Name:</b>	Embankments	<b>Width:</b>					
<b>Location:</b>		<b>Height:</b>					
<b>Element Description:</b>	North embankment.	<b>Count:</b>	4				
<b>Material:</b>	6" Rip Rap	<b>Total Quantity:</b>	4.0				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	each	0.00	4.0	0.00	0.00	<b>BCI TEV:</b> 4000.0	<b>BCI CEV:</b> 3000.0
<b>Comments:</b>	Steep, well vegetated on sides with Rip Rap 6" stone between abutments and railway. Good condition.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>							

<b>Element Group:</b>	Joints	<b>Length:</b>	13.5 (m)				
<b>Element Name:</b>	Armouring/retaining devices	<b>Width:</b>					
<b>Location:</b>	North and South Abutments	<b>Height:</b>					
<b>Element Description:</b>		<b>Count:</b>	2				
<b>Material:</b>	Steel	<b>Total Quantity:</b>	27.0 (m)				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	m	0.00	27.0	0.00	0.00	<b>BCI TEV:</b> 27000.0	<b>BCI CEV:</b> 20250.0
<b>Comments:</b>	Minor surface rust and abrasion.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>							

<b>Element Group:</b>	Joints					<b>Length:</b>	14.0 (m)		
<b>Element Name:</b>	Concrete End Dams					<b>Width:</b>	0.25 (m)		
<b>Location:</b>	North and South					<b>Height:</b>			
<b>Element Description:</b>	N/A					<b>Count:</b>	4		
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	14.0 (sq.m)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>	Coal Tar Epoxy					<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	sq.m	0.00	0.00	13.8	0.2	<b>BCI TEV:</b> 29400.0		<b>BCI CEV:</b> 11592.0	
<b>Comments:</b>	Minor abrasion and light scaling. Spalling at south east quadrant. Requires seal between asphalt and concrete end dam.								
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 05. Bridge Deck Joint Repair			
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input checked="" type="checkbox"/> Urgent			
<b>Type Timing</b>						Reseal all end dam and asphalt interfaces.			

<b>Element Group:</b>	Joints					<b>Length:</b>			
<b>Element Name:</b>	Seals/sealants					<b>Width:</b>			
<b>Location:</b>						<b>Height:</b>			
<b>Element Description:</b>						<b>Count:</b>	2		
<b>Material:</b>						<b>Total Quantity:</b>	2.0 (each)		
<b>Element Type:</b>	Strip Steel					<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	each	0.00	2.0	0.00	0.00	<b>BCI TEV:</b> 2000.0		<b>BCI CEV:</b> 1500.0	
<b>Comments:</b>	Seals in good condition.								
<b>Recommended work:</b>						<b>Maintenance Needs:</b>			
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type Timing</b>									





Repair and Rehabilitation Required		Priority					Estimated Cost
Element	Repair and Rehabilitation Required	> 10 years	6 - 10 years	1 - 5 years	Now < 1 year	Urgent	
Approach Barriers	Replace with steel beam guide rail			✓			\$60,000.00
Deck	Waterproof and repave			✓			\$50,000.00
Sidewalk/ curb	Asphalt patch corner of NE sidewalk for pedestrian safety. Concrete repairs.					✓	\$5,000.00
Sidewalk/ curb	Patch damaged section of curb and sidewalk		✓				\$5,000.00
Girder (ends)	Concrete repairs at SW girder end			✓			\$5,000.00
Approaches Barriers	Tighten slackened cable and broken posts					✓	\$5,000.00
Signs	Straighten bridge ices sign Install object warning marker sign at south buried guide rail ends.					✓	\$2,000.00
<b>Total</b>							\$132,000.00

Associated Work	Comments	Estimated Cost
<b>Approaches</b>		
<b>Detours</b>		
<b>Traffic Control</b>		
<b>Utilities</b>		
<b>Eng Design and Supervision</b>		
<b>Environmental Study</b>		
<b>Other</b>		
<b>Contingencies</b>		
<b>Total</b>		



**Description: Looking north**



**Description: Looking south**



**Description: West elevation**



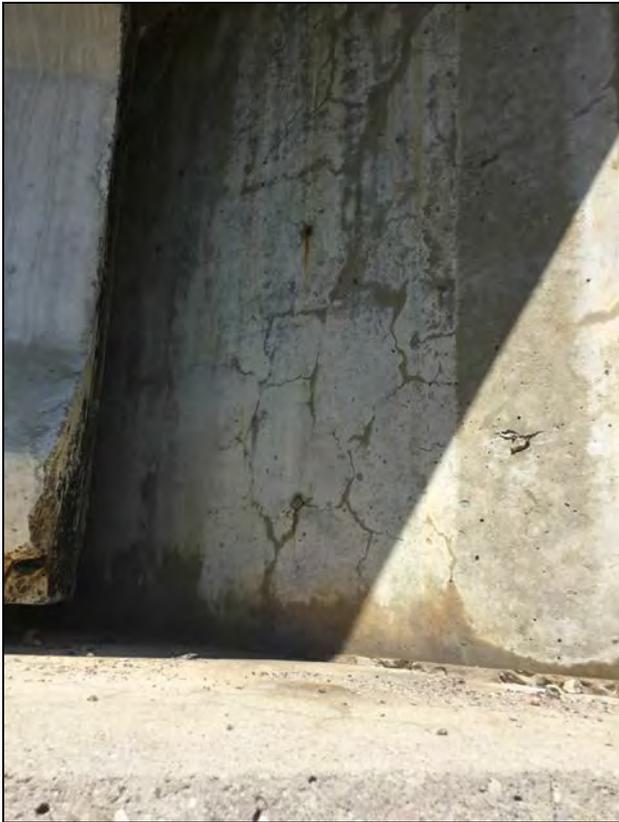
**Description: East elevation**



**Description: ID**



**Description: South wall exposed rebar**  
**Abutments / Ballast Walls (North and South)**



**Description: Narrow pattern cracking ne quadrant  
Abutments / Ballast Walls (North and South)**



**Description: South wall typ  
Abutments / Ballast Walls (North and South)**



**Description: Typical Bearing**  
**Abutments / Bearings (North and South)**



**Description: Southwest bearing**  
**Abutments / Bearings (North and South)**



**Description: South approach bridge ices leaning sign**

**Accessories / Signs**



**Description: North approach bridges ices sign leaning and bent at post location**

**Accessories / Signs**



**Approaches / Curb and Gutters**



**Description: SE curb**

**Approaches / Curb and Gutters**



**Description: NE quadrant**  
**Approaches / Curb and Gutters**



**Description: NW quadrant**  
**Approaches / Curb and Gutters**



**Description: Severe outfall typ**

**Approaches / Drainage System (NW, SE, SW)**



**Description: Typ.**

**Approaches / Drainage System (NW, SE, SW)**



**Description: Rotten and leaning posts NW side  
Approaches / Barriers (West)**



**Description: Rotated blocks and rot  
Approaches / Barriers (West)**



**Description: Corrosion at wood blocks (typ.)**  
**Approaches / Barriers (East)**



**Description: SE**  
**Approaches / Barriers (East)**



**Description: Nw**  
**Approaches / Barriers (East)**



**Description: Light crack southeast side**  
**Approaches / Sidewalk/Curbs (NW & SW Approaches)**



**Description: Minor erosion**

**Approaches / Sidewalk/Curbs (NW & SW Approaches)**



**Description: North**

**Approaches / Wearing surface (North and West)**



**Description: North**

**Approaches / Wearing surface (North and West)**



**Description: Northwest guiderail connection**

**Barriers / Barrier/Parapet Walls (Exterior)**



**Description: Northwest connection to guiderail  
Barriers / Barrier/Parapet Walls (Interior)**



**Description: Honeycombing mid way on west parapet  
Barriers / Barrier/Parapet Walls (Interior)**



**Description: Looking south.**  
**Sidewalks/curbs / Sidewalks and medians (East Side)**



**Description: W side looking N**  
**Decks / Soffit - Thin Slab (Ends)**



**Description: Severe side popout**  
**Decks / Soffit - Thin Slab (Ends)**



**Description: Past cracking and leaking. Minor spall SE side**  
**Decks / Soffit - Thin Slab (Ends)**



**Description: E side looking N**  
**Decks / Soffit - Thin Slab (Ends)**



**Description: Typ.**  
**Decks / Soffit - Thin Slab (Interior)**



**Description: Southeast**  
**Decks / Soffit - Thin Slab (Exterior/Fascia)**



**Description: Typ**  
**Beams/Main Longitudinal Elements / Diaphragms (Middle)**



**Description: Patched pothole N end  
Decks / Wearing Surface**



**Description: Wearing surface  
Decks / Wearing Surface**



**Description: Southwest crack and evident spall.  
Beams/Main Longitudinal Elements / Girders (Ends)**

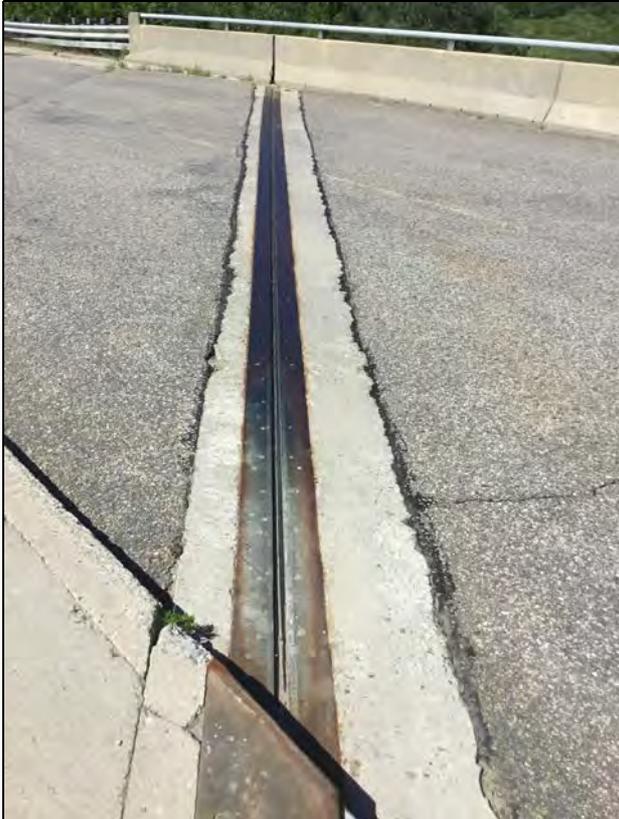


**Description: Narrow cracks and efflorescence.  
Beams/Main Longitudinal Elements / Girders (Ends)**



**Description: Girders typ.**

**Beams/Main Longitudinal Elements / Girders (Ends)**



**Joints / Armouring/retaining devices (North and South Abutments)**



**Joints / Armouring/retaining devices (North and South Abutments)**



**Description: Detailed image of seal (typical)**  
**Joints / Seals/sealants**



**Description: S pier bearings.**

**Piers / Bearings**



**Piers / Caps (North and South Piers)**



**Description: North**  
**Piers / Caps (North and South Piers)**



**Description: Minor spall w exposed rebar**  
**Piers / Caps (North and South Piers)**



**Description: Pier typ**

**Piers / Shafts/columns/Pile Bents (North and South Piers)**



**Description: Southwest corner**

**Beams/Main Longitudinal Elements / Diaphragms (At north and south abutments.)**



**Description: Scaling and delamination - north side third in Beams/Main Longitudinal Elements / Diaphragms (At north and south abutments.)**

Inventory Data:			
<b>Structure Name</b>	<input type="text" value="Little East River Bridge"/>		
<b>Main Hwy/Road #</b>	<input type="text"/> <input checked="" type="checkbox"/> On <input type="checkbox"/> Under	<b>Crossing Type:</b> <input checked="" type="checkbox"/> Navi. Water, <input type="checkbox"/> Non-Navi. Water, <input type="checkbox"/> Rail, <input type="checkbox"/> Road, <input type="checkbox"/> Ped., <input type="checkbox"/> Other, <input type="checkbox"/> Over water, <input type="checkbox"/> Over Road, <input type="checkbox"/> Under railway, <input type="checkbox"/> Unknown, <input type="checkbox"/> Over railway, <input type="checkbox"/> Under Road	
<b>Hwy/Road Name</b>	<input type="text" value="Etwell Road"/>		
<b>Structure Location</b>	<input type="text" value="3km North of District Road 45"/>		
<b>Latitude</b>	<input type="text" value="45.413026°"/>	<b>Longitude</b>	<input type="text" value="-79.238167°"/>
<b>Northing</b>	<input type="text"/>	<b>Easting</b>	<input type="text"/>
<b>Owner(s)</b>	<input type="text" value="Town of Huntsville"/>	<b>Heritage designation:</b> <input checked="" type="checkbox"/> Not Cons., <input type="checkbox"/> Cons./not App., <input type="checkbox"/> List/not Desig., <input type="checkbox"/> Desig./not List, <input type="checkbox"/> Desig. & List	
<b>MTO Region</b>	<input type="text" value="Northeastern"/>	<b>Road Class:</b> <input type="checkbox"/> Freeway, <input type="checkbox"/> Arterial, <input checked="" type="checkbox"/> Collector, <input type="checkbox"/> Collector Residential, <input type="checkbox"/> Collector Commercial, <input type="checkbox"/> Local, <input type="checkbox"/> Local Residential, <input type="checkbox"/> Local Commercial, <input type="checkbox"/> Rural Expressways, <input type="checkbox"/> Alleyways, <input type="checkbox"/> 4 or more lanes	
<b>MTO District</b>	<input type="text" value="Huntsville"/>	<b>Posted Speed</b>	<input type="text" value="60"/> <b>No. of Lanes</b> <input type="text" value="1"/>
<b>Old County</b>	<input type="text" value="Simcoe Muskoka"/>	<b>AADT</b>	<input type="text" value="150.0"/> <b>% Trucks</b> <input type="text"/>
<b>Geographic Twp.</b>	<input type="text" value="Stisted"/>	<b>Inspection Route Sequence</b>	<input type="text"/>
<b>Structure Type</b>	<input type="text" value="Steel Girder"/>	<b>Interchange Number</b>	<input type="text"/>
<b>Total Deck Length</b>	<input type="text" value="7.5"/> (m)	<b>Interchange Structure Number</b>	<input type="text"/>
<b>Overall Str. Width</b>	<input type="text" value="5.0"/> (m)	<b>Min. Vertical Clearance</b>	<input type="text"/> (m)
<b>Total Deck Area</b>	<input type="text" value="37.5"/> (sq.m)	<b>Special Routes:</b>	<input type="checkbox"/> Transit, <input type="checkbox"/> Truck, <input type="checkbox"/> School, <input type="checkbox"/> Bicycle, <input type="checkbox"/> Emergency, <input type="checkbox"/> Commuter
<b>Roadway Width</b>	<input type="text" value="3.8"/> (m)	<b>Detour Length Around Bridge</b>	<input type="text" value="25"/> (km)
<b>Skew Angle</b>	<input type="text" value="0"/> (Degrees)	<b>Direction of Structure</b>	<input type="text" value="East to West"/>
<b>No. of Spans</b>	<input type="text" value="1"/>	<b>Fill on Structure</b>	<input type="text"/> (m)
<b>Span Lengths</b>	<input type="text" value="5.7"/> (m)		

Historical Data:			
<b>Year Built</b>	<input type="text" value="1930"/>	<b>Year of Last Major Rehab.</b>	<input type="text"/>
<b>Last OSIM Inspection</b>	<input type="text" value="2016"/>	<b>Last Evaluation</b>	<input type="text"/>
<b>Last Enhanced OSIM Inspection</b>	<input type="text"/>	<b>Current Load Limit</b>	<input type="text" value="/ /"/> (tonnes)
<b>Enhanced Access Equipment</b>	<input type="text"/>	<b>Load Limit By-Law #</b>	<input type="text" value="/ /"/>
<b>Last Underwater Inspection</b>	<input type="text"/>	<b>By-Law Expiry Date</b>	<input type="text"/>
<b>Last Condition Survey</b>	<input type="text"/>		
<b>Rehab History: (Date/description)</b>			
Bridge has been previously widened (Date unknown)			

Scheduled Improvements:	
<b>Regional Priority Number</b>	<input type="text"/>
<b>Programmed Work Year</b>	<input type="text"/>
<b><i>Nature of Program Work:</i></b>	

Appraisal Indices:		Comments
<b>Fatigue</b>	<input type="text"/>	
<b>Seismic</b>	<input type="text"/>	
<b>Scour</b>	<input type="text"/>	
<b>Flood</b>	<input type="text"/>	
<b>Geometrics</b>	<input type="text"/>	
<b>Barrier</b>	<input type="text"/>	
<b>Curb</b>	<input type="text"/>	
<b>Load Capacity</b>	<input type="text"/>	

Field Inspection Information:			
<b>Date of Inspection:</b>	July 3, 2018	<b>Inspection Type</b>	OSIM
<b>Inspector:</b>	Ben Belfry		
<b>Others in Party:</b>	Sean Wetmore		
<b>Access Equipment Used:</b>	Hammer tape waders		
<b>Weather:</b>	Sunny		
<b>Temperature:</b>	31.0 °C		

Upcoming Inspections and Investigations:		
Due date	Priority	Comments

Additional Investigations Required:	Priority		
	None	Normal	Urgent
<b>Material Condition Survey</b>	✓		
<b>Detailed Deck Condition Survey:</b>	✓		
<b>Non-destructive Delamination Survey of Asphalt-Covered Deck:</b>	✓		
<b>Concrete Substructure Condition Survey:</b>	✓		
<b>Detailed Coating Condition Survey:</b>	✓		
<b>Detailed Timber Investigation</b>	✓		
<b>Post-Tensioned Strand Investigation</b>	✓		
<b>Underwater Investigation:</b>	✓		
<b>Fatigue Investigation:</b>	✓		
<b>Seismic Investigation:</b>	✓		
<b>Structure Evaluation:</b>	✓		
<b>Monitoring</b>	✓		
<b>Monitoring of Deformations, Settlements and Movements:</b>	✓		
<b>Monitoring Crack Widths:</b>	✓		

**Investigation Notes:**  
*None*

<b>Overall Structure Notes:</b>	
<b>Recommended Work on Structure:</b>	
<b>Timing of Recommended Work:</b>	<input type="checkbox"/> Urgent, <input checked="" type="checkbox"/> Now < 1 year, <input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> > 10 years
<b>Overall Comments:</b>	Overall in fair condition
<b>Date of Next Inspection:</b>	2020

<b>Overall Bridge Condition:</b>	67.25
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Recommended inspections and Investigations	Due date	Priority	Comments
<b>Boat Inspection</b>			
<b>Bridge master</b>			
<b>Coating survey</b>			
<b>Detailed condition survey</b>			
<b>Evaluation</b>			
<b>Fatigue</b>			
<b>Monitor Settlements/Movements</b>			
<b>Seismic</b>			
<b>Substructure condition survey</b>			
<b>Underwater</b>			

**Suspected Performance Deficiencies**

- |                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li><b>01</b> Load carrying capacity</li> <li><b>02</b> Excessive deformations (deflections &amp; rotations)</li> <li><b>03</b> Continuing settlement</li> <li><b>04</b> Continuing movements</li> <li><b>05</b> Seized bearings</li> </ul>                                                | <ul style="list-style-type: none"> <li><b>06</b> Bearing not uniformly loaded/unstable</li> <li><b>07</b> Jammed expansion joint</li> <li><b>08</b> Pedestrian/vehicular hazard</li> <li><b>09</b> Rough riding surface</li> <li><b>10</b> Surface ponding</li> <li><b>11</b> Deck drainage</li> </ul>         | <ul style="list-style-type: none"> <li><b>12</b> Slippery surfaces</li> <li><b>13</b> Flooding/channel blockage</li> <li><b>14</b> Undermining of foundation</li> <li><b>15</b> Unstable embankments</li> <li><b>16</b> Other</li> <li><b>17</b> None</li> </ul>                      |
| <b>Maintenance Needs</b>                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li><b>01</b> Lift and Swing Bridge Maintenance</li> <li><b>02</b> Bridge Cleaning</li> <li><b>03</b> Bridge Handrail Maintenance</li> <li><b>04</b> Painting Steel Bridge Structures</li> <li><b>05</b> Bridge Deck Joint Repair</li> <li><b>06</b> Bridge Bearing Maintenance</li> </ul> | <ul style="list-style-type: none"> <li><b>07</b> Repair to Structural Steel</li> <li><b>08</b> Repair of Bridge Concrete</li> <li><b>09</b> Repair of Bridge Timber</li> <li><b>10</b> Bailey bridges - Maintenance</li> <li><b>11</b> Animal/Pest Control</li> <li><b>12</b> Bridge Surface Repair</li> </ul> | <ul style="list-style-type: none"> <li><b>13</b> Erosion Control at Bridges</li> <li><b>14</b> Concrete Sealing</li> <li><b>15</b> Rout and Seal</li> <li><b>16</b> Bridge Deck Drainage</li> <li><b>17</b> Scaling (Loose Concrete or ACR Steel)</li> <li><b>18</b> Other</li> </ul> |

### Element Data

<b>Element Group:</b>	Abutments					<b>Length:</b>	0.3 (m)	
<b>Element Name:</b>	Abutment walls					<b>Width:</b>	0.3 (m)	
<b>Location:</b>	East and West Abutments					<b>Height:</b>	1.0 (m)	
<b>Element Description:</b>						<b>Count:</b>	8	
<b>Material:</b>	Wood					<b>Total Quantity:</b>	7.5 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	2.6	1.2	0.00	<b>BCI TEV:</b> 6750.0	<b>BCI CEV:</b> 2187.0	
<b>Comments:</b>	Limited Inspection due to high water levels; visible section looks to be in good condition with narrow splits at ends. Two interior piles at east side show rot.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Abutments					<b>Length:</b>	0.3 (m)	
<b>Element Name:</b>	Ballast walls					<b>Width:</b>	5.8 (m)	
<b>Location:</b>	East and West Abutments					<b>Height:</b>	0.3 (m)	
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Wood					<b>Total Quantity:</b>	14.3 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	14.0	0.3	0.00	<b>BCI TEV:</b> 5005.0	<b>BCI CEV:</b> 3717.0	
<b>Comments:</b>	In good condition, with minor moisture seeping through deck above							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Abutments	<b>Length:</b>					
<b>Element Name:</b>	Ballast Walls	<b>Width:</b>	6.0 (m)				
<b>Location:</b>	East and West Abutments	<b>Height:</b>	1.5 (m)				
<b>Element Description:</b>		<b>Count:</b>	2				
<b>Material:</b>	Steel	<b>Total Quantity:</b>	18.0				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	sq.m	0.00	16.0	2.0	0.00	<b>BCI TEV:</b> 6300.0	<b>BCI CEV:</b> 4480.0
<b>Comments:</b>	In good condition with minor moisture seepage.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>							

<b>Element Group:</b>	Abutments	<b>Length:</b>	1.5 (m)				
<b>Element Name:</b>	Wingwalls	<b>Width:</b>					
<b>Location:</b>	Southwest	<b>Height:</b>	1.5 (m)				
<b>Element Description:</b>		<b>Count:</b>	1				
<b>Material:</b>	Wood	<b>Total Quantity:</b>	2.3 (sq.m)				
<b>Element Type:</b>	Post and Lagging	<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	sq.m	0.00	2.0	0.3	0.00	<b>BCI TEV:</b> 805.0	<b>BCI CEV:</b> 567.0
<b>Comments:</b>	In good condition, with some wear and weather related deterioration.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>							



<b>Element Group:</b>	Approaches					<b>Length:</b>	6.0 (m)	
<b>Element Name:</b>	Wearing surface					<b>Width:</b>	2.7 (m)	
<b>Location:</b>	East/West					<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Gravel/Asphalt					<b>Total Quantity:</b>	32.4 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	0.00	30.0	2.4	<b>BCI TEV:</b> 194.4		<b>BCI CEV:</b> 72.0
<b>Comments:</b>	Gravel on east side is compacted at wheel tracks and loose in the centerline. Asphalt on west side has depressions and patch work immediately in front of deck that results in ponding and a lip to bridge. Asphalt also has longitudinal narrow-medium cracks throughout.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 16. Bridge Deck Drainage		
<b>Comments</b>						<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>						Blend to road on west side to provide sufficient drainage. Regrade east approach.		

<b>Element Group:</b>	Beams/Main Longitudinal Elements					<b>Length:</b>	5.4 (m)	
<b>Element Name:</b>	Girders					<b>Width:</b>	0.23 (m)	
<b>Location:</b>	Middle					<b>Height:</b>	0.6 (m)	
<b>Element Description:</b>						<b>Count:</b>	5	
<b>Material:</b>	Steel					<b>Total Quantity:</b>	51.0 (sq.m)	
<b>Element Type:</b>	I-type					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	51.0	0.00	0.00	<b>BCI TEV:</b> 10200.0		<b>BCI CEV:</b> 7650.0
<b>Comments:</b>	Good condition with light corrosion							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Decks					<b>Length:</b>	5.4 (m)	
<b>Element Name:</b>	Deck Top					<b>Width:</b>	4.8 (m)	
<b>Location:</b>						<b>Height:</b>	0.2 (m)	
<b>Element Description:</b>	Wood with running boards					<b>Count:</b>	0	
<b>Material:</b>	Wood					<b>Total Quantity:</b>	25.9 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	23.31	0.00	2.59	<b>BCI TEV:</b> 3108.0	<b>BCI CEV:</b> 2097.9	
<b>Comments:</b>	Ponding at centre between longitudinal boards. Mild splitting in timbers either side next to curb pressure treatment still visible.							
<b>Recommended work:</b>					<b>Maintenance Needs:</b>			
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type</b>								
<b>Timing</b>								

<b>Element Group:</b>	Decks					<b>Length:</b>	5.4 (m)	
<b>Element Name:</b>	Soffit - Thin Slab					<b>Width:</b>	4.1 (m)	
<b>Location:</b>						<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	0	
<b>Material:</b>	Wood					<b>Total Quantity:</b>	22.1 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	19.89	2.21	0.00	<b>BCI TEV:</b> 2652.0	<b>BCI CEV:</b> 1896.18	
<b>Comments:</b>	Limited inspection due to high water level. Visible portions were in good condition, 10% had moisture seeping through from the deck top.							
<b>Recommended work:</b>					<b>Maintenance Needs:</b>			
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type</b>								
<b>Timing</b>								

<b>Element Group:</b>	Decks					<b>Length:</b>	5.5 (m)		
<b>Element Name:</b>	Wearing Surface					<b>Width:</b>	0.9 (m)		
<b>Location:</b>						<b>Height:</b>			
<b>Element Description:</b>	Longitudinal PT 2x8 boards					<b>Count:</b>	2		
<b>Material:</b>	Wood					<b>Total Quantity:</b>	9.9 (sq.m)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	sq.m	0.00	9.0	0.9	0.00	<b>BCI TEV:</b> 247.5		<b>BCI CEV:</b> 177.75	
<b>Comments:</b>	Running boards in good condition boards at the edge of wearing surface have split.								
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 12. Bridge Surface Repair			
<b>Comments</b>						<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type Timing</b>						Replace all four edge boards.			

<b>Element Group:</b>	Embankments & Streams					<b>Length:</b>			
<b>Element Name:</b>	Embankments					<b>Width:</b>			
<b>Location:</b>						<b>Height:</b>			
<b>Element Description:</b>						<b>Count:</b>	4		
<b>Material:</b>						<b>Total Quantity:</b>	0.0		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	15. Unstable embankments			
	each	0.00	0.00	2.0	2.0	<b>BCI TEV:</b>		<b>BCI CEV:</b> 800.0	
<b>Comments:</b>	Washouts at both west embankments. (50%)								
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 13. Erosion Control at Bridges			
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input checked="" type="checkbox"/> Urgent			
<b>Type Timing</b>						Fill west washouts			

<b>Element Group:</b>	Embankments & Streams					<b>Length:</b>		
<b>Element Name:</b>	Streams and Waterways					<b>Width:</b>		
<b>Location:</b>	North and South					<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	1	
<b>Material:</b>						<b>Total Quantity:</b>	1.0	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	13. Flooding/channel blockage		
	all	0.00	1.0	0.00	0.00	<b>BCI TEV:</b> 1000.0		<b>BCI CEV:</b> 750.0
<b>Comments:</b>	Large concrete debris under bridge. Increased velocity of flow under structure due to decrease in depth. Will cause erosion of structure quicker over time.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 13. Erosion Control at Bridges		
<b>Comments</b>						<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>						Clear concrete debris from under bridge		

<b>Element Group:</b>	Retaining walls					<b>Length:</b>	2.0 (m)	
<b>Element Name:</b>	Walls					<b>Width:</b>		
<b>Location:</b>						<b>Height:</b>	0.5 (m)	
<b>Element Description:</b>						<b>Count:</b>	0	
<b>Material:</b>						<b>Total Quantity:</b>	3.0 (sq.m)	
<b>Element Type:</b>	Gabions/Concrete with filter cloth					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	3.0	0.00	0.00	<b>BCI TEV:</b> 1050.0		<b>BCI CEV:</b> 787.5
<b>Comments:</b>	In good condition, minor deformation of gabions but no rotation or movement							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Sidewalks/curbs	<b>Length:</b>	5.6 (m)		
<b>Element Name:</b>	Curbs	<b>Width:</b>	0.15 (m)		
<b>Location:</b>		<b>Height:</b>	0.15 (m)		
<b>Element Description:</b>	Curb on North side.	<b>Count:</b>	2		
<b>Material:</b>	Wood	<b>Total Quantity:</b>	5.04 (sq.m)		
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>	Pressure Treated	<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>
	sq.m	0.00	3.0	2.04	0.00
			<b>BCI TEV:</b> 201.6	<b>BCI CEV:</b> 122.64	
<b>Comments:</b>	Severe checking and warping of the south curb. Portion of north curb replaced since last inspection moderate checking minor impact damage at northwest quadrant.				
<b>Recommended work:</b>			<b>Maintenance Needs:</b>		
<p><b>Comments</b></p> <p>Replace 2 6x6x(5.6m) curbs</p> <p><b>Type</b></p> <p><input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace</p> <p><b>Timing</b></p> <p><input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now &lt; 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent</p>			<p><input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent</p>		

\* A quantity must be estimated using the appropriate unit (e.g. sq.m.). Percent should not be used.

Repair and Rehabilitation Required		Priority					Estimated Cost
Element	Repair and Rehabilitation Required	> 10 years	6 - 10 years	1 - 5 years	Now < 1 year	Urgent	
Curb	Replace			✓			\$1,000.00
Stream	Clean debris from under bridge				✓		\$1,000.00
Embankments	Fill west washouts					✓	\$2,000.00
Deck Wearing surface	Replace all 4 edge boards				✓		\$1,000.00
Approach Wearing surface	Blend road on west side to provide proper drainage. Regrade east approach.				✓		\$5,000.00
Approach Barrier	Install guide rail at approaches					✓	\$20,000.00
Signs	Replace damaged sign					✓	\$1,000.00
<b>Total</b>							\$31,000.00

Associated Work	Comments	Estimated Cost
<b>Approaches</b>		
<b>Detours</b>		
<b>Traffic Control</b>		
<b>Utilities</b>		
<b>Eng Design and Supervision</b>		
<b>Environmental Study</b>		
<b>Other</b>		
<b>Contingencies</b>		
<b>Total</b>		



**Description: Looking north**



**Description: Looking west**



**Description: Looking east**



**Description: Looking south**



**Abutments / Abutment walls (East and West Abutments)**



**Abutments / Abutment walls (East and West Abutments)**



**Abutments / Ballast Walls (East and West Abutments)**



**Abutments / Ballast Walls (East and West Abutments)**



**Abutments / Ballast walls (East and West Abutments)**



**Description: SW**

**Abutments / Wingwalls (Southwest)**



**Description: SW**  
**Abutments / Wingwalls (Southwest)**



**Accessories / Signs**



**Approaches / Wearing surface (East/West)**



**Approaches / Wearing surface (East/West)**



**Sidewalks/curbs / Curbs**



**Description: Looking west**

**Decks / Deck Top**



**Decks / Soffit - Thin Slab**



**Decks / Wearing Surface**



**Description: Increased velocity due to shallow depth under bridge (Looking S)  
Embankments & Streams / Streams and Waterways (North and South)**



**Description: SW embankment  
Embankments & Streams / Embankments**



**Description: NW embankment with exposed geotextile**  
**Embankments & Streams / Embankments**



**Retaining walls / Walls**

Inventory Data:			
<b>Structure Name</b>	<input style="width: 95%;" type="text" value="Bridge 11 Lots 25 &amp; 26, Conc XII, Stephenson"/>		
<b>Main Hwy/Road #</b>	<input style="width: 150px;" type="text"/>	<input checked="" type="checkbox"/> On <input type="checkbox"/> Under	<b>Crossing Type:</b> <input checked="" type="checkbox"/> Navi. Water, <input checked="" type="checkbox"/> Non-Navi. Water, <input type="checkbox"/> Rail, <input type="checkbox"/> Road, <input type="checkbox"/> Ped., <input type="checkbox"/> Other, <input type="checkbox"/> Over water, <input type="checkbox"/> Over Road, <input type="checkbox"/> Under railway, <input type="checkbox"/> Unknown, <input type="checkbox"/> Over railway, <input type="checkbox"/> Under Road
<b>Hwy/Road Name</b>	<input style="width: 95%;" type="text" value="Domtar Road"/>		
<b>Structure Location</b>	<input style="width: 95%;" type="text" value="0.45km North of Old Muskoka Road"/>		
<b>Latitude</b>	<input style="width: 150px;" type="text" value="45.269009"/>	<b>Longitude</b>	<input style="width: 150px;" type="text" value="-79.303629"/>
<b>Northing</b>	<input style="width: 150px;" type="text"/>	<b>Easting</b>	<input style="width: 150px;" type="text"/>
<b>Owner(s)</b>	<input style="width: 150px;" type="text" value="Town of Huntsville"/>	<b>Heritage designation:</b> <input checked="" type="checkbox"/> Not Cons., <input type="checkbox"/> Cons./not App., <input type="checkbox"/> List/not Desig., <input type="checkbox"/> Desig./not List, <input type="checkbox"/> Desig. & List	
<b>MTO Region</b>	<input style="width: 150px;" type="text" value="Northeastern"/>	<b>Road Class:</b> <input type="checkbox"/> Freeway, <input type="checkbox"/> Arterial, <input type="checkbox"/> Collector, <input type="checkbox"/> Collector Residential, <input type="checkbox"/> Collector Commercial, <input checked="" type="checkbox"/> Local, <input type="checkbox"/> Local Residential, <input type="checkbox"/> Local Commercial, <input type="checkbox"/> Rural Expressways, <input type="checkbox"/> Alleyways, <input type="checkbox"/> 4 or more lanes	
<b>MTO District</b>	<input style="width: 150px;" type="text" value="Hunsville"/>	<b>Posted Speed</b>	<input style="width: 50px;" type="text" value="80"/> <b>No. of Lanes</b> <input style="width: 50px;" type="text" value="1"/>
<b>Old County</b>	<input style="width: 150px;" type="text" value="Simcoe-Muskoka"/>	<b>AADT</b>	<input style="width: 50px;" type="text" value="225.0"/> <b>% Trucks</b> <input style="width: 50px;" type="text"/>
<b>Geographic Twp.</b>	<input style="width: 150px;" type="text" value="Stephenson"/>	<b>Inspection Route Sequence</b>	<input style="width: 150px;" type="text"/>
<b>Structure Type</b>	<input style="width: 150px;" type="text" value="Concrete Rigid Frame"/>	<b>Interchange Number</b>	<input style="width: 150px;" type="text"/>
<b>Total Deck Length</b>	<input style="width: 100px;" type="text" value="4.0"/> (m)	<b>Interchange Structure Number</b>	<input style="width: 150px;" type="text"/>
<b>Overall Str. Width</b>	<input style="width: 100px;" type="text" value="6.2"/> (m)	<b>Min. Vertical Clearance</b>	<input style="width: 150px;" type="text"/> (m)
<b>Total Deck Area</b>	<input style="width: 100px;" type="text" value="24.8"/> (sq.m)	<b>Special Routes:</b>	<input type="checkbox"/> Transit, <input type="checkbox"/> Truck, <input type="checkbox"/> School, <input type="checkbox"/> Bicycle, <input type="checkbox"/> Emergency, <input type="checkbox"/> Commuter
<b>Roadway Width</b>	<input style="width: 100px;" type="text" value="5.8"/> (m)	<b>Detour Length Around Bridge</b>	<input style="width: 100px;" type="text" value="5"/> (km)
<b>Skew Angle</b>	<input style="width: 100px;" type="text" value="0"/> (Degrees)	<b>Direction of Structure</b>	<input style="width: 150px;" type="text" value="East to West"/>
<b>No. of Spans</b>	<input style="width: 100px;" type="text" value="1"/>	<b>Fill on Structure</b>	<input style="width: 100px;" type="text" value="0.3"/> (m)
<b>Span Lengths</b>	<input style="width: 95%;" type="text" value="3.1"/> (m)		

Historical Data:			
<b>Year Built</b>	<input style="width: 50px;" type="text" value="1950"/>	<b>Year of Last Major Rehab.</b>	<input style="width: 50px;" type="text"/>
<b>Last OSIM Inspection</b>	<input style="width: 50px;" type="text" value="2016"/>	<b>Last Evaluation</b>	<input style="width: 50px;" type="text"/>
<b>Last Enhanced OSIM Inspection</b>	<input style="width: 50px;" type="text"/>	<b>Current Load Limit</b>	<input style="width: 50px;" type="text" value="/ /"/> (tonnes)
<b>Enhanced Access Equipment</b>	<input style="width: 50px;" type="text"/>	<b>Load Limit By-Law #</b>	<input style="width: 50px;" type="text" value="/ /"/>
<b>Last Underwater Inspection</b>	<input style="width: 50px;" type="text"/>	<b>By-Law Expiry Date</b>	<input style="width: 50px;" type="text"/>
<b>Last Condition Survey</b>	<input style="width: 50px;" type="text"/>		
<b>Rehab History: (Date/description)</b>			

Scheduled Improvements:	
<b>Regional Priority Number</b>	<input type="text"/>
<b>Programmed Work Year</b>	<input type="text"/>
<b><i>Nature of Program Work:</i></b>	

Appraisal Indices:		Comments
<b>Fatigue</b>	<input type="text"/>	
<b>Seismic</b>	<input type="text"/>	
<b>Scour</b>	<input type="text"/>	
<b>Flood</b>	<input type="text"/>	
<b>Geometrics</b>	<input type="text"/>	
<b>Barrier</b>	<input type="text"/>	
<b>Curb</b>	<input type="text"/>	
<b>Load Capacity</b>	<input type="text"/>	

Field Inspection Information:			
<b>Date of Inspection:</b>	June 27, 2018	<b>Inspection Type</b>	OSIM
<b>Inspector:</b>	Ben Belfry		
<b>Others in Party:</b>	Frank Palmay, Sean Wetmore		
<b>Access Equipment Used:</b>	Tape and hammer		
<b>Weather:</b>	Cloudy		
<b>Temperature:</b>	20.0 °C		

Upcoming Inspections and Investigations:		
Due date	Priority	Comments

Additional Investigations Required:	Priority		
	None	Normal	Urgent
<b>Material Condition Survey</b>	✓		
<b>Detailed Deck Condition Survey:</b>	✓		
<b>Non-destructive Delamination Survey of Asphalt-Covered Deck:</b>	✓		
<b>Concrete Substructure Condition Survey:</b>	✓		
<b>Detailed Coating Condition Survey:</b>	✓		
<b>Detailed Timber Investigation</b>	✓		
<b>Post-Tensioned Strand Investigation</b>	✓		
<b>Underwater Investigation:</b>	✓		
<b>Fatigue Investigation:</b>	✓		
<b>Seismic Investigation:</b>	✓		
<b>Structure Evaluation:</b>	✓		
<b>Monitoring</b>	✓		
<b>Monitoring of Deformations, Settlements and Movements:</b>	✓		
<b>Monitoring Crack Widths:</b>	✓		

**Investigation Notes:**

<b>Overall Structure Notes:</b>	
<b>Recommended Work on Structure:</b>	Replace in 6-10 years.
<b>Timing of Recommended Work:</b>	<input type="checkbox"/> Urgent, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 1 - 5 years, <input checked="" type="checkbox"/> 6 - 10 years, <input type="checkbox"/> > 10 years
<b>Overall Comments:</b>	Overall structure is in poor condition.
<b>Date of Next Inspection:</b>	2020

<b>Overall Bridge Condition:</b>	47.34
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Recommended inspections and Investigations	Due date	Priority	Comments
<b>Boat Inspection</b>			
<b>Bridge master</b>			
<b>Coating survey</b>			
<b>Detailed condition survey</b>			
<b>Evaluation</b>			
<b>Fatigue</b>			
<b>Monitor Settlements/Movements</b>			
<b>Seismic</b>			
<b>Substructure condition survey</b>			
<b>Underwater</b>			

**Suspected Performance Deficiencies**

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>01</b> Load carrying capacity</p> <p><b>02</b> Excessive deformations (deflections &amp; rotations)</p> <p><b>03</b> Continuing settlement</p> <p><b>04</b> Continuing movements</p> <p><b>05</b> Seized bearings</p> <p><b>Maintenance Needs</b></p> <p><b>01</b> Lift and Swing Bridge Maintenance</p> <p><b>02</b> Bridge Cleaning</p> <p><b>03</b> Bridge Handrail Maintenance</p> <p><b>04</b> Painting Steel Bridge Structures</p> <p><b>05</b> Bridge Deck Joint Repair</p> <p><b>06</b> Bridge Bearing Maintenance</p> | <p><b>06</b> Bearing not uniformly loaded/unstable</p> <p><b>07</b> Jammed expansion joint</p> <p><b>08</b> Pedestrian/vehicular hazard</p> <p><b>09</b> Rough riding surface</p> <p><b>10</b> Surface ponding</p> <p><b>11</b> Deck drainage</p> <p><b>07</b> Repair to Structural Steel</p> <p><b>08</b> Repair of Bridge Concrete</p> <p><b>09</b> Repair of Bridge Timber</p> <p><b>10</b> Bailey bridges - Maintenance</p> <p><b>11</b> Animal/Pest Control</p> <p><b>12</b> Bridge Surface Repair</p> | <p><b>12</b> Slippery surfaces</p> <p><b>13</b> Flooding/channel blockage</p> <p><b>14</b> Undermining of foundation</p> <p><b>15</b> Unstable embankments</p> <p><b>16</b> Other</p> <p><b>17</b> None</p> <p><b>13</b> Erosion Control at Bridges</p> <p><b>14</b> Concrete Sealing</p> <p><b>15</b> Rout and Seal</p> <p><b>16</b> Bridge Deck Drainage</p> <p><b>17</b> Scaling (Loose Concrete or ACR Steel)</p> <p><b>18</b> Other</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Element Data

<b>Element Group:</b>	Abutments					<b>Length:</b>			
<b>Element Name:</b>	Abutment Walls					<b>Width:</b>	6.2 (m)		
<b>Location:</b>	East and West					<b>Height:</b>	1.2 (m)		
<b>Element Description:</b>						<b>Count:</b>	2		
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	14.9 (sq.m)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	sq.m	0.00	12.9	0.1	1.9	<b>BCI TEV:</b> 13410.0		<b>BCI CEV:</b> 8743.5	
<b>Comments:</b>	Minor wear, severe erosion of south and north abutment at footing/abutment interface with light scaling. throughout and scouring on south section								
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 13 - Erosion Control at Bridges			
<b>Comments</b>						<input type="checkbox"/> 1 year, <input checked="" type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type Timing</b>						Install erosion protection.			

<b>Element Group:</b>	Abutments					<b>Length:</b>	1.6 (m)		
<b>Element Name:</b>	Wingwalls					<b>Width:</b>			
<b>Location:</b>	4 Corners of Structure					<b>Height:</b>	0.8 (m)		
<b>Element Description:</b>						<b>Count:</b>	4		
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	5.1 (sq.m)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	sq.m	0.00	4.8	0.00	0.3	<b>BCI TEV:</b> 1785.0		<b>BCI CEV:</b> 1260.0	
<b>Comments:</b>	All wingwalls lightly scaled. Scouring of southwest wingwall at abutment interface. NW corner wingwall overgrown. Erosion at wingwall to stream bed interface approx 4cm.								
<b>Recommended work:</b>						<b>Maintenance Needs:</b>			
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type Timing</b>									

<b>Element Group:</b>	Accessories	<b>Length:</b>					
<b>Element Name:</b>	Signs	<b>Width:</b>					
<b>Location:</b>		<b>Height:</b>					
<b>Element Description:</b>	.	<b>Count:</b>	6				
<b>Material:</b>		<b>Total Quantity:</b>	6.0				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	each	0.00	6.0	0.00	0.00	<b>BCI TEV: 600.0</b>	<b>BCI CEV: 450.0</b>
<b>Comments:</b>	Hazard Warning Signs and Narrow bridge ahead.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>							

<b>Element Group:</b>	Approaches	<b>Length:</b>	6.0 (m)				
<b>Element Name:</b>	Wearing surface	<b>Width:</b>	5.8 (m)				
<b>Location:</b>		<b>Height:</b>					
<b>Element Description:</b>		<b>Count:</b>	2				
<b>Material:</b>	Asphalt	<b>Total Quantity:</b>	69.6 (sq.m)				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	sq.m	0.00	0.00	0.00	69.6	<b>BCI TEV: 417.6</b>	<b>BCI CEV:</b>
<b>Comments:</b>	Potholes throughout, some filled. Ponding and wear also present. High shoulders causing ponding between shoulders and roadway. Edge cracking. Severe wheel rutting.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
Repave approaches.  Install barrier.							
<b>Type</b>		<b>Timing</b>					
<input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace		<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent					
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace		<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent					

<b>Element Group:</b>	Barriers					<b>Length:</b>	0.1 (m)		
<b>Element Name:</b>	Posts					<b>Width:</b>	0.1 (m)		
<b>Location:</b>						<b>Height:</b>	0.5 (m)		
<b>Element Description:</b>						<b>Count:</b>	18		
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	18.0 (each)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	each	0.00	14.0	2.0	2.0	<b>BCI TEV:</b> 3600.0		<b>BCI CEV:</b> 2260.0	
<b>Comments:</b>	Minor impact damage at SE quadrant with hairline cracking throughout and discolouration from weathering. Barrier type does not meet current standards. Spalling on NW and NE corners. NE has severe spalling with exposed rebar on top rail both sides.								
<b>Recommended work:</b>					<b>Maintenance Needs:</b>				
<b>Comments</b> Replace posts.					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent				
<b>Type</b>		<b>Timing</b>							
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace		<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent							

<b>Element Group:</b>	Barriers					<b>Length:</b>	4.0 (m)		
<b>Element Name:</b>	Railing Systems					<b>Width:</b>	0.2 (m)		
<b>Location:</b>	East and West					<b>Height:</b>	0.1 (m)		
<b>Element Description:</b>						<b>Count:</b>	2		
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	8.0 (m)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	m	0.00	6.0	1.0	1.0	<b>BCI TEV:</b> 1600.0		<b>BCI CEV:</b> 980.0	
<b>Comments:</b>	Impact damage at corners. Scaling/wear, spall with exposed rebar and cracks throughout.								
<b>Recommended work:</b>					<b>Maintenance Needs:</b>				
<b>Comments</b> Replace railing system.					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent				
<b>Type</b>		<b>Timing</b>							
<input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace		<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent							

<b>Element Group:</b>	Decks	<b>Length:</b>	4.0 (m)
<b>Element Name:</b>	Deck Top	<b>Width:</b>	0.2 (m)
<b>Location:</b>		<b>Height:</b>	0.1 (m)
<b>Element Description:</b>		<b>Count:</b>	2
<b>Material:</b>	Cast-In-Place Concrete	<b>Total Quantity:</b>	24.8 (sq.m)
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>
<b>Protection System:</b>	Asphalt	<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>
	sq.m	0.00	0.00
	<b>Fair</b>	<b>Poor*</b>	
	5.0	19.8	
	<b>BCI TEV:</b> 2976.0	<b>BCI CEV:</b> 240.0	
<b>Comments:</b>	Condition based on wearing surface condition		
<b>Recommended work:</b>		<b>Maintenance Needs:</b>	
<b>Comments</b> Replace deck.		<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type</b> <input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace	<b>Timing</b> <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent		

<b>Element Group:</b>	Decks	<b>Length:</b>	3.1 (m)
<b>Element Name:</b>	Soffit - Thick slab	<b>Width:</b>	5.2 (m)
<b>Location:</b>	Interior	<b>Height:</b>	
<b>Element Description:</b>		<b>Count:</b>	1
<b>Material:</b>	Cast-In-Place Concrete	<b>Total Quantity:</b>	16.12 (sq.m)
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>		<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>
	sq.m	0.00	0.00
	<b>Fair</b>	<b>Poor*</b>	
	0.00	16.12	
	<b>BCI TEV:</b> 5642.0	<b>BCI CEV:</b>	
<b>Comments:</b>	Spalling and delaminations throughout. Exposed corroded rebar. Overall in poor condition		
<b>Recommended work:</b>		<b>Maintenance Needs:</b>	
<b>Comments</b> Replace soffit.		<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type</b> <input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace	<b>Timing</b> <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent		

<b>Element Group:</b>	Decks					<b>Length:</b>	3.1 (m)	
<b>Element Name:</b>	Soffit - Thick slab					<b>Width:</b>	0.5 (m)	
<b>Location:</b>	Exterior/Fascias					<b>Height:</b>	0.5 (m)	
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	6.2 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	0.00	0.00	6.2	<b>BCI TEV:</b> 2170.0	<b>BCI CEV:</b>	
<b>Comments:</b>	Medium scaling.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b> Replace soffit.						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b> <input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace		<b>Timing</b> <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent						

<b>Element Group:</b>	Decks					<b>Length:</b>	4.0 (m)	
<b>Element Name:</b>	Wearing Surface					<b>Width:</b>	5.8 (m)	
<b>Location:</b>						<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	1	
<b>Material:</b>	Asphalt					<b>Total Quantity:</b>	23.2 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	0.00	20.0	3.2	<b>BCI TEV:</b> 580.0	<b>BCI CEV:</b> 200.0	
<b>Comments:</b>	Potholes/patches, wear, ponding, transverse cracking							
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 15 - Rout and Seal		
<b>Comments</b> Waterproof and pave.						<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent  Rout and Seal		
<b>Type</b> <input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace		<b>Timing</b> <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent						

<b>Element Group:</b>	Embankments & Streams					<b>Length:</b>	
<b>Element Name:</b>	Embankments					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	4
<b>Material:</b>						<b>Total Quantity:</b>	4.0 (each)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	each	0.00	4.0	0.00	0.00	<b>BCI TEV:</b> 4000.0	<b>BCI CEV:</b> 3000.0
<b>Comments:</b>	Appear to be well vegetated and stable. Southwest embankment steep approx 3m from deck.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>							

<b>Element Group:</b>	Embankments & Streams					<b>Length:</b>	
<b>Element Name:</b>	Streams and Waterways					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	1
<b>Material:</b>						<b>Total Quantity:</b>	1.0 (all)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	all	0.00	1.0	0.00	0.00	<b>BCI TEV:</b> 1000.0	<b>BCI CEV:</b> 750.0
<b>Comments:</b>	Lightly Vegetated not effecting flow of waterway. Aggradation of streambed material, mostly on NW quadrant.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>							

\* A quantity must be estimated using the appropriate unit (e.g. sq.m.). Percent should not be used.

Repair and Rehabilitation Required		Priority					Estimated Cost
Element	Repair and Rehabilitation Required	> 10 years	6 - 10 years	1 - 5 years	Now < 1 year	Urgent	
Structure	Replace structure		✓				\$300,000.00
<b>Total</b>							\$300,000.00

Associated Work	Comments	Estimated Cost
Approaches		
Detours		
Traffic Control		
Utilities		
Eng Design and Supervision		
Environmental Study		
Other		
Contingencies		
<b>Total</b>		



**Description: North abutment**  
**Abutments / Abutment Walls (East and West)**



**Description: South abutment erosion.**  
**Abutments / Abutment Walls (East and West)**



**Description: South abutment wall.**

**Abutments / Abutment Walls (East and West)**



**Description: North abutment erosion at footing interface.**

**Abutments / Abutment Walls (East and West)**



**Description: Looking north**  
**Approaches / Wearing surface**



**Description: Typical hazard sign**  
**Accessories / Signs**



**Description: NW - overgrown vegetation.**  
**Abutments / Wingwalls (4 Corners of Structure)**



**Description: SW quadrant.**  
**Abutments / Wingwalls (4 Corners of Structure)**



**Description: NE quadrant**  
**Abutments / Wingwalls (4 Corners of Structure)**



**Description: SE quadrant.**  
**Abutments / Wingwalls (4 Corners of Structure)**



**Description: West side**

**Barriers / Posts**



**Description: East side**

**Barriers / Posts**



**Description: Wearing surface above decktop**

**Decks / Deck Top**



**Description: Interior soffit with exposed rebar**

**Decks / Soffit - Thick slab (Interior)**



**Description: East exterior soffit**  
**Decks / Soffit - Thick slab (Exterior/Fascias)**



**Description: Stream flow looking east**  
**Embankments & Streams / Streams and Waterways**



**Description: Stream looking west, flow from west to east**  
**Embankments & Streams / Streams and Waterways**



**Description: NW quadrant**  
**Embankments & Streams / Embankments**



**Description: SE quadrant**  
**Embankments & Streams / Embankments**



**Description: SW quadrant**  
**Embankments & Streams / Embankments**



**Description: NE quadrant**  
**Embankments & Streams / Embankments**

Inventory Data:			
<b>Structure Name</b>	<input style="width: 95%;" type="text" value="Bridge 13 Centre Street Bridge"/>		
<b>Main Hwy/Road #</b>	<input style="width: 150px;" type="text"/>	<input checked="" type="checkbox"/> On <input type="checkbox"/> Under	<b>Crossing Type:</b> <input type="checkbox"/> Navi. Water, <input type="checkbox"/> Non-Navi. Water, <input type="checkbox"/> Rail, <input type="checkbox"/> Road, <input type="checkbox"/> Ped., <input type="checkbox"/> Other, <input type="checkbox"/> Over water, <input type="checkbox"/> Over Road, <input type="checkbox"/> Under railway, <input type="checkbox"/> Unknown, <input type="checkbox"/> Over railway, <input type="checkbox"/> Under Road
<b>Hwy/Road Name</b>	<input style="width: 95%;" type="text" value="Centre Street"/>		
<b>Structure Location</b>	<input style="width: 95%;" type="text" value="0.32km South of District Road 2"/>		
<b>Latitude</b>	<input n"="" style="width: 150px;" type="text" value="45° 19' 48"/>	<b>Longitude</b>	<input style="width: 150px;" type="text" value="79° 13' 19" w"=""/>
<b>Northing</b>	<input style="width: 150px;" type="text"/>	<b>Easting</b>	<input style="width: 150px;" type="text"/>
<b>Owner(s)</b>	<input style="width: 150px;" type="text" value="Town of Huntsville"/>	<b>Heritage designation:</b> <input checked="" type="checkbox"/> Not Cons., <input type="checkbox"/> Cons./not App., <input type="checkbox"/> List/not Desig., <input type="checkbox"/> Desig./not List, <input type="checkbox"/> Desig. & List	
<b>MTO Region</b>	<input style="width: 150px;" type="text" value="Northeastern"/>	<b>Road Class:</b> <input type="checkbox"/> Freeway, <input type="checkbox"/> Arterial, <input checked="" type="checkbox"/> Collector, <input type="checkbox"/> Collector Residential, <input type="checkbox"/> Collector Commercial, <input type="checkbox"/> Local, <input type="checkbox"/> Local Residential, <input type="checkbox"/> Local Commercial, <input type="checkbox"/> Rural Expressways, <input type="checkbox"/> Alleyways, <input type="checkbox"/> 4 or more lanes	
<b>MTO District</b>	<input style="width: 150px;" type="text" value="Huntsville"/>	<b>Posted Speed</b>	<input style="width: 50px;" type="text" value="50"/> <b>No. of Lanes</b> <input style="width: 50px;" type="text" value="2"/>
<b>Old County</b>	<input style="width: 150px;" type="text" value="Simcoe-Muskoka"/>	<b>AADT</b>	<input style="width: 50px;" type="text" value="3000.0"/> <b>% Trucks</b> <input style="width: 50px;" type="text" value="2.0"/>
<b>Geographic Twp.</b>	<input style="width: 150px;" type="text" value="Brunel"/>	<b>Inspection Route Sequence</b>	<input style="width: 150px;" type="text"/>
<b>Structure Type</b>	<input style="width: 150px;" type="text" value="Concrete Slab on Steel Girder"/>	<b>Interchange Number</b>	<input style="width: 150px;" type="text"/>
<b>Total Deck Length</b>	<input style="width: 100px;" type="text" value="83.3"/> (m)	<b>Interchange Structure Number</b>	<input style="width: 150px;" type="text"/>
<b>Overall Str. Width</b>	<input style="width: 100px;" type="text" value="11.2"/> (m)	<b>Min. Vertical Clearance</b>	<input style="width: 150px;" type="text"/> (m)
<b>Total Deck Area</b>	<input style="width: 100px;" type="text" value="933.0"/> (sq.m)	<b>Special Routes:</b>	<input type="checkbox"/> Transit, <input type="checkbox"/> Truck, <input type="checkbox"/> School, <input type="checkbox"/> Bicycle, <input type="checkbox"/> Emergency, <input type="checkbox"/> Commuter
<b>Roadway Width</b>	<input style="width: 100px;" type="text" value="9.1"/> (m)	<b>Detour Length Around Bridge</b>	<input style="width: 100px;" type="text" value="4"/> (km)
<b>Skew Angle</b>	<input style="width: 100px;" type="text" value="6"/> (Degrees)	<b>Direction of Structure</b>	<input style="width: 150px;" type="text" value="North to South"/>
<b>No. of Spans</b>	<input style="width: 100px;" type="text" value="3"/>	<b>Fill on Structure</b>	<input style="width: 150px;" type="text"/> (m)
<b>Span Lengths</b>	<input style="width: 95%;" type="text" value="24.9, 33.5, 24.9"/> (m)		

Historical Data:			
<b>Year Built</b>	<input style="width: 50px;" type="text" value="1979"/>	<b>Year of Last Major Rehab.</b>	<input style="width: 50px;" type="text"/>
<b>Last OSIM Inspection</b>	<input style="width: 50px;" type="text" value="2015"/>	<b>Last Evaluation</b>	<input style="width: 50px;" type="text"/>
<b>Last Enhanced OSIM Inspection</b>	<input style="width: 50px;" type="text"/>	<b>Current Load Limit</b>	<input style="width: 50px;" type="text" value="/ /"/> (tonnes)
<b>Enhanced Access Equipment</b>	<input style="width: 50px;" type="text"/>	<b>Load Limit By-Law #</b>	<input style="width: 50px;" type="text" value="/ /"/>
<b>Last Underwater Inspection</b>	<input style="width: 50px;" type="text"/>	<b>By-Law Expiry Date</b>	<input style="width: 50px;" type="text"/>
<b>Last Condition Survey</b>	<input style="width: 50px;" type="text"/>		
<b>Rehab History: (Date/description)</b>			

Scheduled Improvements:	
<b>Regional Priority Number</b>	<input type="text"/>
<b>Programmed Work Year</b>	<input type="text"/>
<b><i>Nature of Program Work:</i></b>	

<b>Appraisal Indices:</b>	">	Comments
<b>Fatigue</b>	<input type="text"/>	
<b>Seismic</b>	<input type="text"/>	
<b>Scour</b>	<input type="text"/>	
<b>Flood</b>	<input type="text"/>	
<b>Geometrics</b>	<input type="text"/>	
<b>Barrier</b>	<input type="text"/>	
<b>Curb</b>	<input type="text"/>	
<b>Load Capacity</b>	<input type="text"/>	

Field Inspection Information:			
<b>Date of Inspection:</b>	July 11, 2018	<b>Inspection Type</b>	OSIM
<b>Inspector:</b>	Ben Belfry		
<b>Others in Party:</b>	Sean Wetmore		
<b>Access Equipment Used:</b>	Tape, hammer		
<b>Weather:</b>	Sunny		
<b>Temperature:</b>	28.0 °C		

Upcoming Inspections and Investigations:		
Due date	Priority	Comments

Additional Investigations Required:	Priority		
	None	Normal	Urgent
<b>Material Condition Survey</b>	✓		
<b>Detailed Deck Condition Survey:</b>	✓		
<b>Non-destructive Delamination Survey of Asphalt-Covered Deck:</b>	✓		
<b>Concrete Substructure Condition Survey:</b>	✓		
<b>Detailed Coating Condition Survey:</b>	✓		
<b>Detailed Timber Investigation</b>	✓		
<b>Post-Tensioned Strand Investigation</b>	✓		
<b>Underwater Investigation:</b>	✓		
<b>Fatigue Investigation:</b>	✓		
<b>Seismic Investigation:</b>	✓		
<b>Structure Evaluation:</b>	✓		
<b>Monitoring</b>	✓		
<b>Monitoring of Deformations, Settlements and Movements:</b>	✓		
<b>Monitoring Crack Widths:</b>	✓		

**Investigation Notes:**  
*None*

<b>Overall Structure Notes:</b>	
<b>Recommended Work on Structure:</b>	
<b>Timing of Recommended Work:</b>	<input type="checkbox"/> Urgent, <input checked="" type="checkbox"/> Now < 1 year, <input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> > 10 years
<b>Overall Comments:</b>	Structure in good to fair condtion
<b>Date of Next Inspection:</b>	2020

<b>Overall Bridge Condition:</b>	65.31
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Recommended inspections and Investigations	Due date	Priority	Comments
<b>Boat Inspection</b>			
<b>Bridge master</b>			
<b>Coating survey</b>			
<b>Detailed condition survey</b>			
<b>Evaluation</b>			
<b>Fatigue</b>			
<b>Monitor Settlements/Movements</b>			
<b>Seismic</b>			
<b>Substructure condition survey</b>			
<b>Underwater</b>			

**Suspected Performance Deficiencies**

- |                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li><b>01</b> Load carrying capacity</li> <li><b>02</b> Excessive deformations (deflections &amp; rotations)</li> <li><b>03</b> Continuing settlement</li> <li><b>04</b> Continuing movements</li> <li><b>05</b> Seized bearings</li> </ul>                                                | <ul style="list-style-type: none"> <li><b>06</b> Bearing not uniformly loaded/unstable</li> <li><b>07</b> Jammed expansion joint</li> <li><b>08</b> Pedestrian/vehicular hazard</li> <li><b>09</b> Rough riding surface</li> <li><b>10</b> Surface ponding</li> <li><b>11</b> Deck drainage</li> </ul>         | <ul style="list-style-type: none"> <li><b>12</b> Slippery surfaces</li> <li><b>13</b> Flooding/channel blockage</li> <li><b>14</b> Undermining of foundation</li> <li><b>15</b> Unstable embankments</li> <li><b>16</b> Other</li> <li><b>17</b> None</li> </ul>                      |
| <b>Maintenance Needs</b>                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li><b>01</b> Lift and Swing Bridge Maintenance</li> <li><b>02</b> Bridge Cleaning</li> <li><b>03</b> Bridge Handrail Maintenance</li> <li><b>04</b> Painting Steel Bridge Structures</li> <li><b>05</b> Bridge Deck Joint Repair</li> <li><b>06</b> Bridge Bearing Maintenance</li> </ul> | <ul style="list-style-type: none"> <li><b>07</b> Repair to Structural Steel</li> <li><b>08</b> Repair of Bridge Concrete</li> <li><b>09</b> Repair of Bridge Timber</li> <li><b>10</b> Bailey bridges - Maintenance</li> <li><b>11</b> Animal/Pest Control</li> <li><b>12</b> Bridge Surface Repair</li> </ul> | <ul style="list-style-type: none"> <li><b>13</b> Erosion Control at Bridges</li> <li><b>14</b> Concrete Sealing</li> <li><b>15</b> Rout and Seal</li> <li><b>16</b> Bridge Deck Drainage</li> <li><b>17</b> Scaling (Loose Concrete or ACR Steel)</li> <li><b>18</b> Other</li> </ul> |

### Element Data

<b>Element Group:</b>	Abutments					<b>Length:</b>			
<b>Element Name:</b>	Abutment Walls					<b>Width:</b>	11.3 (m)		
<b>Location:</b>	North Abutment					<b>Height:</b>	3.5 (m)		
<b>Element Description:</b>						<b>Count:</b>	2		
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	79.1 (sq.m)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	sq.m	0.00	73.0	2.0	4.1	<b>BCI TEV:</b> 71190.0		<b>BCI CEV:</b> 49995.0	
<b>Comments:</b>	North: Narrow vertical cracks, light bug holes and have 15-20% moisture staining. Small area of delamination near west side. South: Light graffiti, 10% moisture stained on the southeast quadrant, hairline cracks and light bug holes.								
<b>Recommended work:</b>					<b>Maintenance Needs:</b>				
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent				
<b>Type Timing</b>									

<b>Element Group:</b>	Abutments					<b>Length:</b>			
<b>Element Name:</b>	Ballast Walls					<b>Width:</b>	11.3 (m)		
<b>Location:</b>	North and South Abutment					<b>Height:</b>	1.9 (m)		
<b>Element Description:</b>						<b>Count:</b>	2		
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	43.0 (sq.m)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	sq.m	0.00	0.00	43.0	0.2	<b>BCI TEV:</b> 15050.0		<b>BCI CEV:</b> 6020.0	
<b>Comments:</b>	Small spall northeast wall, signs of water leakage through joint. Northwest wall has exposed rebar and 0.3m medium crack. South wall some hairline cracks.								
<b>Recommended work:</b>					<b>Maintenance Needs:</b>				
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent				
<b>Type Timing</b>									
Repair ballast wall.  <input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace					<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input checked="" type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent				

<b>Element Group:</b>	Abutments					<b>Length:</b>		
<b>Element Name:</b>	Bearings					<b>Width:</b>		
<b>Location:</b>	North and South					<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	8	
<b>Material:</b>	Elastomeric/Steel					<b>Total Quantity:</b>	8.0 (each)	
<b>Element Type:</b>	Laminated					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	each	0.00	0.00	8.0	0.00	<b>BCI TEV:</b> 8000.0	<b>BCI CEV:</b> 3200.0	
<b>Comments:</b>	Limited on north side due to accessibility. Light to medium cracking and some bulging on the south noted on last inspection. South bearings in good condition.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b> When seals and joints are replaced, replace the bearings.						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>		<b>Timing</b>						
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace		<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input checked="" type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent						

<b>Element Group:</b>	Abutments					<b>Length:</b>	4.8 (m)	
<b>Element Name:</b>	Wingwalls					<b>Width:</b>		
<b>Location:</b>						<b>Height:</b>	1.9 (m)	
<b>Element Description:</b>						<b>Count:</b>	4	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	36.5 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	29.7	4.2	2.6	<b>BCI TEV:</b> 12775.0	<b>BCI CEV:</b> 8384.25	
<b>Comments:</b>	Moderate narrow pattern cracks throughout.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Accessories					<b>Length:</b>	
<b>Element Name:</b>	Signs					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	2
<b>Material:</b>	Steel					<b>Total Quantity:</b>	2.0
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	<b>BCI TEV:</b> 200.0	<b>BCI CEV:</b> 80.0
	each	0.00	0.00	2.0	0.00		
<b>Comments:</b>	No hazard Warning Signs present, however there is a Bridge Ices sign present at both ends of bridge both in fair condition. North end( south bound lane) bridge ices sign with slight lean.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 17. Other	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input checked="" type="checkbox"/> Urgent	
<b>Type Timing</b>						Install hazard signs. Straighten south bound bridges ices sign.	

<b>Element Group:</b>	Accessories					<b>Length:</b>	83.3
<b>Element Name:</b>	Utilities					<b>Width:</b>	
<b>Location:</b>	West Side					<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	4
<b>Material:</b>	Steel/PVC					<b>Total Quantity:</b>	4.0 (each)
<b>Element Type:</b>	Pipe					<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	<b>BCI TEV:</b>	<b>BCI CEV:</b>
	each	0.00	4.0	0.00	0.00		
<b>Comments:</b>	A PVC conduit and a steel watermain run parallel to and between the girders on west side. PVC is sagged over southern pier, and Watermain looks to be in a severely corroded state. Street lights on east side in good condition.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 17. Other	
<b>Comments</b>						<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>						Investigate the extent of deterioration of watermain.	

<b>Element Group:</b>	Approaches					<b>Length:</b>	11.5 (m)		
<b>Element Name:</b>	Barriers					<b>Width:</b>			
<b>Location:</b>	NE, NW					<b>Height:</b>			
<b>Element Description:</b>	N/A					<b>Count:</b>	2		
<b>Material:</b>	Steel					<b>Total Quantity:</b>	23.0		
<b>Element Type:</b>	Steel Flex Beam on Wood Post					<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>	Hot dip galvanizing					<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	8 - Pedestrian / vehicular hazard			
	m	0.00	14.3	2.2	6.5	<b>BCI TEV:</b> 4600.0		<b>BCI CEV:</b> 2321.0	
<b>Comments:</b>	Guiderail on the north side only with buried end treatments, which are substandard and represent a vehicle launching hazard. Posts supporting guiderails are rotted, have sitting water on top, and have rotated offset blocks. Guiderail is lightly corroded due to the worn protection coating. Substandard connection to parapet wall on both sides.								
<b>Recommended work:</b>					<b>Maintenance Needs:</b>				
<b>Comments</b>  Install new guide rail to current code.					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent				
<b>Type</b>  <input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace		<b>Timing</b>  <input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input checked="" type="checkbox"/> Urgent							

<b>Element Group:</b>	Approaches					<b>Length:</b>	
<b>Element Name:</b>	Drainage System					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	4
<b>Material:</b>	Concrete / Asphalt gutter					<b>Total Quantity:</b>	4.0 (each)
<b>Element Type:</b>	Collector System/Catch Basins					<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	<b>BCI TEV:</b> 20.0	<b>BCI CEV:</b> 15.0
	each	0.00	4.0	0.00	0.00		
<b>Comments:</b>	Catch basins, in good condition. Gutter from road on North end is in good condition except for transverse cracks that continue from the roadway across the gutter.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 08. Repair of Bridge Concrete	
<b>Comments</b>						<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>						Repair cracks in curb/gutter at NW catch basin	

<b>Element Group:</b>	Approaches					<b>Length:</b>	6.0 (m)
<b>Element Name:</b>	Wearing surface					<b>Width:</b>	9.1 (m)
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	2
<b>Material:</b>	Asphalt					<b>Total Quantity:</b>	109.2 (sq.m)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	<b>BCI TEV:</b> 655.2	<b>BCI CEV:</b> 491.4
	sq.m	0.00	109.2	0.00	0.00		
<b>Comments:</b>	Medium transverse cracking throughout and at interface with joint and narrow longitudinal centreline cracking.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 15 - Rout and Seal	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input checked="" type="checkbox"/> Urgent	
<b>Type Timing</b>						Rout and Seal.	

<b>Element Group:</b>	Barriers					<b>Length:</b>	1.5 (m)	
<b>Element Name:</b>	Barrier/Parapet Walls					<b>Width:</b>	0.35 (m)	
<b>Location:</b>						<b>Height:</b>	1.1 (m)	
<b>Element Description:</b>	N/A					<b>Count:</b>	4	
<b>Material:</b>	Masonry					<b>Total Quantity:</b>	6.6 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	0.00	0.58	1.07	<b>BCI TEV:</b> 660.0	<b>BCI CEV:</b> 23.2	
<b>Comments:</b>	Decorative stone end posts. The Southeast parapet end post has a large piece of stone missing from the South side midway up the post. Exposed rebar and large spalls. Fascia coming free.							
<b>Recommended work:</b>					<b>Maintenance Needs:</b>			
<b>Comments</b> Repair grout and stone on Southeast and Northeast parapet wall.					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type</b> <input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace								
<b>Timing</b> <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent								

<b>Element Group:</b>	Barriers					<b>Length:</b>	95.0 (m)	
<b>Element Name:</b>	Railing Systems					<b>Width:</b>		
<b>Location:</b>	East and west sides					<b>Height:</b>	1.0 (m)	
<b>Element Description:</b>	N/A					<b>Count:</b>	2	
<b>Material:</b>	Steel					<b>Total Quantity:</b>	190.0 (m)	
<b>Element Type:</b>	3 Rail Metal Railing					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	m	0.00	187.0	3.0	0.00	<b>BCI TEV:</b> 38000.0	<b>BCI CEV:</b> 28290.0	
<b>Comments:</b>	In good to fair condition, with few small sections that have vehicle collision / snow removal damage. A 0.075 diameter hole located midway of west handrail.							
<b>Recommended work:</b>					<b>Maintenance Needs:</b>			
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type Timing</b>								

<b>Element Group:</b>	Beams/Main Longitudinal Elements	<b>Length:</b>					
<b>Element Name:</b>	Diaphragms	<b>Width:</b>					
<b>Location:</b>	Piers	<b>Height:</b>					
<b>Element Description:</b>		<b>Count:</b>	6				
<b>Material:</b>	Weathering Steel	<b>Total Quantity:</b>	6.0 (each)				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	each	0.00	6.0	0.00	0.00	<b>BCI TEV:</b>	<b>BCI CEV:</b>
<b>Comments:</b>	In good condition.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>							

<b>Element Group:</b>	Beams/Main Longitudinal Elements	<b>Length:</b>	2.9 (m)				
<b>Element Name:</b>	Diaphragms	<b>Width:</b>	0.15 (m)				
<b>Location:</b>	Abutments	<b>Height:</b>	0.75 (m)				
<b>Element Description:</b>		<b>Count:</b>	6				
<b>Material:</b>	Weathering Steel	<b>Total Quantity:</b>	6.0 (each)				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	each	0.00	4.0	2.0	0.00	<b>BCI TEV:</b>	<b>BCI CEV:</b>
<b>Comments:</b>	North end diaphragms in good to fair condition, have heavy corrosion from exposed moisture from leaking joints above. South end diaphragms in good condition with limited corrosion.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>							

<b>Element Group:</b>	Beams/Main Longitudinal Elements					<b>Length:</b>	
<b>Element Name:</b>	Diaphragms					<b>Width:</b>	
<b>Location:</b>	Intermediate					<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	33
<b>Material:</b>	Weathering Steel					<b>Total Quantity:</b>	33.0 (each)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	each	0.00	33.0	0.00	0.00	<b>BCI TEV:</b>	<b>BCI CEV:</b>
<b>Comments:</b>	Visible portion of steel cross bracing appear to be in good condition with the exception of light moisture staining in the north end due to failure in joint seal above.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>							

<b>Element Group:</b>	Beams/Main Longitudinal Elements					<b>Length:</b>	83.3 (m)
<b>Element Name:</b>	Girders					<b>Width:</b>	0.4 (m)
<b>Location:</b>	Middle					<b>Height:</b>	1.5 (m)
<b>Element Description:</b>						<b>Count:</b>	2
<b>Material:</b>	Steel					<b>Total Quantity:</b>	699.7 (sq.m)
<b>Element Type:</b>	I-Beam or Girders					<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	sq.m	0.00	649.3	50.4	0.00	<b>BCI TEV: 139940.0</b>	<b>BCI CEV: 101427.0</b>
<b>Comments:</b>	In good condition, lightly corroded from weathering. The north end shows moisture staining from leaking joint and rust flaking present.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>							

<b>Element Group:</b>	Beams/Main Longitudinal Elements					<b>Length:</b>	83.3 (m)	
<b>Element Name:</b>	Girders					<b>Width:</b>	0.4 (m)	
<b>Location:</b>	East and west end					<b>Height:</b>	1.5 (m)	
<b>Element Description:</b>	N/A					<b>Count:</b>	2	
<b>Material:</b>	Steel					<b>Total Quantity:</b>	699.7 (sq.m)	
<b>Element Type:</b>	I-Beam or Girders					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	649.3	50.4	0.00	<b>BCI TEV:</b> 139940.0	<b>BCI CEV:</b> 101427.0	
<b>Comments:</b>	Moderate flaking of patina on the bottom of the flange due to joint seal failure (especially in the North end).							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Decks					<b>Length:</b>	83.3 (m)	
<b>Element Name:</b>	Deck Top					<b>Width:</b>	11.2 (m)	
<b>Location:</b>						<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	0	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	933.0 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	933.0	0.00	0.00	<b>BCI TEV:</b> 111960.0	<b>BCI CEV:</b> 83970.0	
<b>Comments:</b>	Limited inspection, condition based on soffit and wearing surface							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Decks	<b>Length:</b>	
<b>Element Name:</b>	Drainage System	<b>Width:</b>	
<b>Location:</b>		<b>Height:</b>	
<b>Element Description:</b>		<b>Count:</b>	6
<b>Material:</b>	Steel	<b>Total Quantity:</b>	6.0
<b>Element Type:</b>	Catch Basins	<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>		<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>
	each	0.00	6.0
	<b>Fair</b>	<b>Poor*</b>	
	0.00	0.00	
<b>Comments:</b>	Steel in good condition and all drains in working order. Some debris caught in drains.		
<b>Recommended work:</b>	<b>Maintenance Needs:</b> 02. Bridge Cleaning		
<b>Comments</b>	<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>	Clear out catch basins.		

<b>Element Group:</b>	Decks	<b>Length:</b>	77.3 (m)
<b>Element Name:</b>	Soffit - Thin Slab	<b>Width:</b>	3.2 (m)
<b>Location:</b>	Interior	<b>Height:</b>	
<b>Element Description:</b>		<b>Count:</b>	3
<b>Material:</b>	Cast In Place Concrete	<b>Total Quantity:</b>	742.08 (sq.m)
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>		<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>
	sq.m	0.00	742.08
	<b>Fair</b>	<b>Poor*</b>	
	0.00	0.00	
<b>Comments:</b>	In good condition, hairline cracking noted		
<b>Recommended work:</b>	<b>Maintenance Needs:</b>		
<b>Comments</b>	<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>			

<b>Element Group:</b>	Decks					<b>Length:</b>	77.3 (m)	
<b>Element Name:</b>	Soffit - Thin Slab					<b>Width:</b>	1.0 (m)	
<b>Location:</b>	Fascia					<b>Height:</b>	0.35 (m)	
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	208.71 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	208.71	0.00	0.00	<b>BCI TEV:</b> 25045.2	<b>BCI CEV:</b> 18783.9	
<b>Comments:</b>	In good condition with hairline cracks and minor moisture seeping at bridge handrail supports.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								

<b>Element Group:</b>	Decks					<b>Length:</b>	3.0 (m)	
<b>Element Name:</b>	Soffit - Thin Slab					<b>Width:</b>	10.2 (m)	
<b>Location:</b>	Ends					<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	61.2 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	0.00	59.1	2.1	<b>BCI TEV:</b> 7344.0	<b>BCI CEV:</b> 2836.8	
<b>Comments:</b>	Wet due to water leakage through deck joints. Some visible spalls along length.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>								
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace						<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent		

<b>Element Group:</b>	Decks					<b>Length:</b>	83.3 (m)		
<b>Element Name:</b>	Wearing Surface					<b>Width:</b>	9.1 (m)		
<b>Location:</b>						<b>Height:</b>			
<b>Element Description:</b>						<b>Count:</b>	1		
<b>Material:</b>	Asphalt					<b>Total Quantity:</b>	758.0 (sq.m)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	sq.m	0.00	748.4	9.6	0.00	<b>BCI TEV:</b> 18950.0		<b>BCI CEV:</b> 14128.5	
<b>Comments:</b>	Light wear and weathering. Sunken pot hole patch in southbound lane near south abutment. Minor wheel rutting west side. Minor transverse cracks north end.								
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 15 - <i>Rout and Seal</i>			
<b>Comments</b>						<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type Timing</b>						Rout and seal cracks and fill pot holes.			

<b>Element Group:</b>	Embankments & Streams					<b>Length:</b>			
<b>Element Name:</b>	Embankments					<b>Width:</b>			
<b>Location:</b>						<b>Height:</b>			
<b>Element Description:</b>						<b>Count:</b>	4		
<b>Material:</b>						<b>Total Quantity:</b>	4.0 (each)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	each	0.00	4.0	0.00	0.00	<b>BCI TEV:</b> 4000.0		<b>BCI CEV:</b> 3000.0	
<b>Comments:</b>	Appear to be well vegetated and stable, rip rap has been piled up at southwest corner of abutment								
<b>Recommended work:</b>						<b>Maintenance Needs:</b>			
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type Timing</b>									

<b>Element Group:</b>	Embankments & Streams	<b>Length:</b>					
<b>Element Name:</b>	Streams and Waterways	<b>Width:</b>					
<b>Location:</b>		<b>Height:</b>					
<b>Element Description:</b>		<b>Count:</b>	1				
<b>Material:</b>		<b>Total Quantity:</b>	1.0 (all)				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	all	0.00	1.0	0.00	0.00	<b>BCI TEV:</b> 1000.0	<b>BCI CEV:</b> 750.0
<b>Comments:</b>	Good condition with no blockages						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>							

<b>Element Group:</b>	Joints	<b>Length:</b>	11.2 (m)				
<b>Element Name:</b>	Armouring/retaining devices	<b>Width:</b>					
<b>Location:</b>	Abutments and Piers	<b>Height:</b>					
<b>Element Description:</b>		<b>Count:</b>	4				
<b>Material:</b>	Steel	<b>Total Quantity:</b>	44.8 (m)				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	m	0.00	40.0	2.4	2.4	<b>BCI TEV:</b> 44800.0	<b>BCI CEV:</b> 30960.0
<b>Comments:</b>	Light corrosion on all four. One on Southeast quadrant is angled laterally on a screw. One on northwest sidewalk is missing entirely.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b> <input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace							
<b>Timing</b> <input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent							



<b>Element Group:</b>	Sidewalks/curbs					<b>Length:</b>	83.3 (m)		
<b>Element Name:</b>	Sidewalks and medians					<b>Width:</b>	1.08 (m)		
<b>Location:</b>	West Side of Deck					<b>Height:</b>	0.15 (m)		
<b>Element Description:</b>						<b>Count:</b>	2		
<b>Material:</b>	Cast In Place Concrete					<b>Total Quantity:</b>	199.9 (sq.m)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	sq.m	0.00	60.0	2.5	0.00	<b>BCI TEV:</b> 29985.0		<b>BCI CEV:</b> 6900.0	
<b>Comments:</b>	Light wear and minor scrapes and impact damage. Narrow to medium transverse cracks. Some patches from previous rehabilitation work at north joint. Spalls from prior patch repairs but repairs are holding. Areas of prior patching/sealing have areas of delamination throughout. Large area of spalling near south mid-drain. Some minor to medium cracks. Longitudinal near south end.								
<b>Recommended work:</b>					<b>Maintenance Needs:</b>				
<b>Comments</b> Replace sidewalk					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent				
<b>Type</b>		<b>Timing</b>							
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace		<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent							

\* A quantity must be estimated using the appropriate unit (e.g. sq.m.). Percent should not be used.

Repair and Rehabilitation Required		Priority					Estimated Cost
Element	Repair and Rehabilitation Required	> 10 years	6 - 10 years	1 - 5 years	Now < 1 year	Urgent	
Approach barrier	Replace					✓	\$20,000.00
Bearings	When seals are replaced replace bearings		✓				\$10,000.00
Signs	Install hazard warning signs at buried guiderail ends. Straighten southbound bridge ices sign					✓	\$2,000.00
Barrier parapet wall	Repair grout and stone on southeast and northeast parapet wall				✓		\$15,000.00
Joints Armouring	Replace armouring when resealing joints			✓			\$50,000.00
Joint Seals	Replace seals					✓	\$5,000.00
<b>Total</b>							\$102,000.00

Associated Work	Comments	Estimated Cost
<b>Approaches</b>		
<b>Detours</b>		
<b>Traffic Control</b>		
<b>Utilities</b>		
<b>Eng Design and Supervision</b>		
<b>Environmental Study</b>		
<b>Other</b>		
<b>Contingencies</b>		
<b>Total</b>		



**Description: Looking North**



**Description: West elevation**



**Description: North wall 1**  
**Abutments / Abutment Walls (North Abutment)**



**Description: North wall 2**  
**Abutments / Abutment Walls (North Abutment)**



**Abutments / Abutment Walls (North Abutment)**



**Description: Typical  
Abutments / Wingwalls**



**Description: S wall typ**

**Abutments / Ballast Walls (North and South Abutment)**



**Description: Spall at NW quadrant**

**Abutments / Ballast Walls (North and South Abutment)**



**Description: NW**

**Abutments / Ballast Walls (North and South Abutment)**



**Description: S (typ)**

**Abutments / Bearings (North and South)**



**Description: NE bearing**  
**Abutments / Bearings (North and South)**



**Description: NW bearing**  
**Abutments / Bearings (North and South)**



**Description: SW outer bearing.**  
**Abutments / Bearings (North and South)**



**Description: Typical catch basin**  
**Approaches / Drainage System**



**Description: Damaged NW steelbeam guide rail**

**Approaches / Barriers (NE, NW)**



**Description: Bent NE steel beam guiderail**

**Approaches / Barriers (NE, NW)**



**Description: Plaque**

**Barriers / Barrier/Parapet Walls**



**Description: NE spall**

**Barriers / Barrier/Parapet Walls**



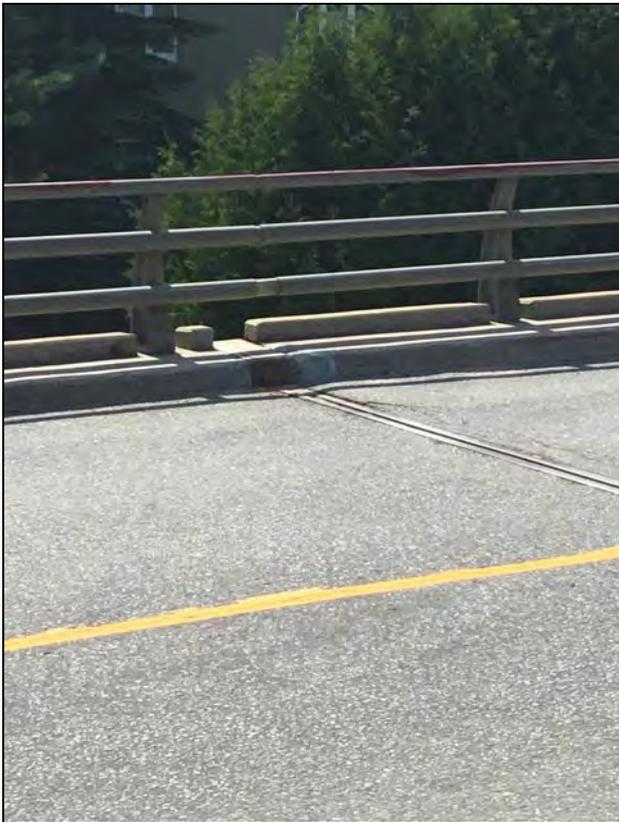
**Description: NE**

**Barriers / Barrier/Parapet Walls**



**Description: SE quadrant**

**Barriers / Barrier/Parapet Walls**



**Description: Area of repair at north joint**  
**Sidewalks/curbs / Sidewalks and medians (West Side of Deck)**



**Description: Sunken patched pot hole**  
**Decks / Wearing Surface**



**Description: Looking North**  
**Decks / Wearing Surface**



**Description: Depressions forming at mid point**  
**Decks / Wearing Surface**



**Description: SE quadrant patch material loss  
Decks / Wearing Surface**



**Description: Transverse cracks N side  
Decks / Wearing Surface**



**Description: W middle**  
**Decks / Drainage System**



**Description: E middle**  
**Decks / Drainage System**



**Description: NE quadrant**  
**Decks / Drainage System**



**Description: NW quadrant**  
**Decks / Drainage System**



**Description: SE quadrant**  
**Decks / Drainage System**



**Description: SW quadrant**  
**Decks / Drainage System**



**Description: West side**  
**Decks / Soffit - Thin Slab (Fascia)**



**Description: Typical**  
**Decks / Soffit - Thin Slab (Interior)**



**Description: NW**

**Decks / Soffit - Thin Slab (Ends)**



**Description: NE**

**Decks / Soffit - Thin Slab (Ends)**



**Description: NW joint**  
**Decks / Soffit - Thin Slab (Ends)**



**Description: North middle diaphragm. ( typical weathered abutment diaphragm)**  
**Beams/Main Longitudinal Elements / Diaphragms (Abutments)**



**Description: North**

**Joints / Seals/sealants (North and South Abutments)**



**Description: North pier (facing South)**

**Piers / Shafts/columns/Pile Bents (North and South)**

Inventory Data:			
<b>Structure Name</b>	<input type="text" value="Bridge 14 Brunel Ward"/>		
<b>Main Hwy/Road #</b>	<input type="text"/>	<input checked="" type="checkbox"/> On <input type="checkbox"/> Under	<b>Crossing Type:</b> <input checked="" type="checkbox"/> Navi. Water, <input type="checkbox"/> Non-Navi. Water, <input type="checkbox"/> Rail, <input type="checkbox"/> Road, <input type="checkbox"/> Ped., <input type="checkbox"/> Other, <input type="checkbox"/> Over water, <input type="checkbox"/> Over Road, <input type="checkbox"/> Under railway, <input type="checkbox"/> Unknown, <input type="checkbox"/> Over railway, <input type="checkbox"/> Under Road
<b>Hwy/Road Name</b>	<input type="text" value="Candytown Lane"/>		
<b>Structure Location</b>	<input type="text" value="0.5km East of District Road 10"/>		
<b>Latitude</b>	<input n"="" type="text" value="45° 14' 3"/>	<b>Longitude</b>	<input type="text" value="79° 14' 40" w"=""/>
<b>Northing</b>	<input type="text"/>	<b>Easting</b>	<input type="text"/>
<b>Owner(s)</b>	<input type="text" value="Town of Huntsville"/>	<b>Heritage designation:</b> <input checked="" type="checkbox"/> Not Cons., <input type="checkbox"/> Cons./not App., <input type="checkbox"/> List/not Desig., <input type="checkbox"/> Desig./not List, <input type="checkbox"/> Desig. & List	
<b>MTO Region</b>	<input type="text" value="Northeastern"/>	<b>Road Class:</b> <input type="checkbox"/> Freeway, <input type="checkbox"/> Arterial, <input type="checkbox"/> Collector, <input type="checkbox"/> Collector Residential, <input type="checkbox"/> Collector Commercial, <input checked="" type="checkbox"/> Local, <input type="checkbox"/> Local Residential, <input type="checkbox"/> Local Commercial, <input type="checkbox"/> Rural Expressways, <input type="checkbox"/> Alleyways, <input type="checkbox"/> 4 or more lanes	
<b>MTO District</b>	<input type="text" value="Huntsville"/>	<b>Posted Speed</b>	<input type="text" value="60"/> <b>No. of Lanes</b> <input type="text" value="1"/>
<b>Old County</b>	<input type="text" value="Simcoe-Muskoka"/>	<b>AADT</b>	<input type="text" value="45.0"/> <b>% Trucks</b> <input type="text"/>
<b>Geographic Twp.</b>	<input type="text" value="Brunel"/>	<b>Inspection Route Sequence</b>	<input type="text"/>
<b>Structure Type</b>	<input type="text" value="Concrete T Beam"/>	<b>Interchange Number</b>	<input type="text"/>
<b>Total Deck Length</b>	<input type="text" value="7.3"/> (m)	<b>Interchange Structure Number</b>	<input type="text"/>
<b>Overall Str. Width</b>	<input type="text" value="4.9"/> (m)	<b>Min. Vertical Clearance</b>	<input type="text"/> (m)
<b>Total Deck Area</b>	<input type="text" value="35.8"/> (sq.m)	<b>Special Routes:</b>	<input type="checkbox"/> Transit, <input type="checkbox"/> Truck, <input type="checkbox"/> School, <input type="checkbox"/> Bicycle, <input type="checkbox"/> Emergency, <input type="checkbox"/> Commuter
<b>Roadway Width</b>	<input type="text" value="4.4"/> (m)	<b>Detour Length Around Bridge</b>	<input type="text" value="N/A"/> (km)
<b>Skew Angle</b>	<input type="text" value="0"/> (Degrees)	<b>Direction of Structure</b>	<input type="text" value="East to West"/>
<b>No. of Spans</b>	<input type="text" value="1"/>	<b>Fill on Structure</b>	<input type="text" value="0.3"/> (m)
<b>Span Lengths</b>	<input type="text" value="6.1"/> (m)		

Historical Data:			
<b>Year Built</b>	<input type="text" value="1930"/>	<b>Year of Last Major Rehab.</b>	<input type="text"/>
<b>Last OSIM Inspection</b>	<input type="text" value="2015"/>	<b>Last Evaluation</b>	<input type="text"/>
<b>Last Enhanced OSIM Inspection</b>	<input type="text"/>	<b>Current Load Limit</b>	<input type="text" value="/ /"/> (tonnes)
<b>Enhanced Access Equipment</b>	<input type="text"/>	<b>Load Limit By-Law #</b>	<input type="text" value="/ /"/>
<b>Last Underwater Inspection</b>	<input type="text"/>	<b>By-Law Expiry Date</b>	<input type="text"/>
<b>Last Condition Survey</b>	<input type="text"/>		
<b>Rehab History: (Date/description)</b>			

Scheduled Improvements:	
<b>Regional Priority Number</b>	<input type="text"/>
<b>Programmed Work Year</b>	<input type="text"/>
<b><i>Nature of Program Work:</i></b>	

Appraisal Indices:		Comments
<b>Fatigue</b>	<input type="text"/>	
<b>Seismic</b>	<input type="text"/>	
<b>Scour</b>	<input type="text"/>	
<b>Flood</b>	<input type="text"/>	
<b>Geometrics</b>	<input type="text"/>	
<b>Barrier</b>	<input type="text"/>	
<b>Curb</b>	<input type="text"/>	
<b>Load Capacity</b>	<input type="text"/>	

Field Inspection Information:			
<b>Date of Inspection:</b>	July 11, 2018	<b>Inspection Type</b>	OSIM
<b>Inspector:</b>	Sean Wetmore		
<b>Others in Party:</b>	Ben Belfry		
<b>Access Equipment Used:</b>	Tape, hammer, flashlight		
<b>Weather:</b>	Partly Cloudy		
<b>Temperature:</b>	15.0 °C		

Upcoming Inspections and Investigations:		
Due date	Priority	Comments

Additional Investigations Required:	Priority		
	None	Normal	Urgent
<b>Material Condition Survey</b>	✓		
<b>Detailed Deck Condition Survey:</b>	✓		
<b>Non-destructive Delamination Survey of Asphalt-Covered Deck:</b>	✓		
<b>Concrete Substructure Condition Survey:</b>	✓		
<b>Detailed Coating Condition Survey:</b>	✓		
<b>Detailed Timber Investigation</b>	✓		
<b>Post-Tensioned Strand Investigation</b>	✓		
<b>Underwater Investigation:</b>	✓		
<b>Fatigue Investigation:</b>	✓		
<b>Seismic Investigation:</b>	✓		
<b>Structure Evaluation:</b>	✓		
<b>Monitoring</b>	✓		
<b>Monitoring of Deformations, Settlements and Movements:</b>	✓		
<b>Monitoring Crack Widths:</b>	✓		

**Investigation Notes:**  
*None*

<b>Overall Structure Notes:</b>	
<b>Recommended Work on Structure:</b>	Clear vegetation away from all bridge elements and remove excess fill/ gravel from surfaces.
<b>Timing of Recommended Work:</b>	<input type="checkbox"/> Urgent, <input type="checkbox"/> Now < 1 year, <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> > 10 years
<b>Overall Comments:</b>	Structure is in fair to poor condition. Anticipate replacement in 1-5 years.
<b>Date of Next Inspection:</b>	2020

<b>Overall Bridge Condition:</b>	44.4
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Recommended inspections and Investigations	Due date	Priority	Comments
<b>Boat Inspection</b>			
<b>Bridge master</b>			
<b>Coating survey</b>			
<b>Detailed condition survey</b>			
<b>Evaluation</b>			
<b>Fatigue</b>			
<b>Monitor Settlements/Movements</b>			
<b>Seismic</b>			
<b>Substructure condition survey</b>			
<b>Underwater</b>			

**Suspected Performance Deficiencies**

- |                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li><b>01</b> Load carrying capacity</li> <li><b>02</b> Excessive deformations (deflections &amp; rotations)</li> <li><b>03</b> Continuing settlement</li> <li><b>04</b> Continuing movements</li> <li><b>05</b> Seized bearings</li> </ul>                                                | <ul style="list-style-type: none"> <li><b>06</b> Bearing not uniformly loaded/unstable</li> <li><b>07</b> Jammed expansion joint</li> <li><b>08</b> Pedestrian/vehicular hazard</li> <li><b>09</b> Rough riding surface</li> <li><b>10</b> Surface ponding</li> <li><b>11</b> Deck drainage</li> </ul>         | <ul style="list-style-type: none"> <li><b>12</b> Slippery surfaces</li> <li><b>13</b> Flooding/channel blockage</li> <li><b>14</b> Undermining of foundation</li> <li><b>15</b> Unstable embankments</li> <li><b>16</b> Other</li> <li><b>17</b> None</li> </ul>                      |
| <b>Maintenance Needs</b>                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li><b>01</b> Lift and Swing Bridge Maintenance</li> <li><b>02</b> Bridge Cleaning</li> <li><b>03</b> Bridge Handrail Maintenance</li> <li><b>04</b> Painting Steel Bridge Structures</li> <li><b>05</b> Bridge Deck Joint Repair</li> <li><b>06</b> Bridge Bearing Maintenance</li> </ul> | <ul style="list-style-type: none"> <li><b>07</b> Repair to Structural Steel</li> <li><b>08</b> Repair of Bridge Concrete</li> <li><b>09</b> Repair of Bridge Timber</li> <li><b>10</b> Bailey bridges - Maintenance</li> <li><b>11</b> Animal/Pest Control</li> <li><b>12</b> Bridge Surface Repair</li> </ul> | <ul style="list-style-type: none"> <li><b>13</b> Erosion Control at Bridges</li> <li><b>14</b> Concrete Sealing</li> <li><b>15</b> Rout and Seal</li> <li><b>16</b> Bridge Deck Drainage</li> <li><b>17</b> Scaling (Loose Concrete or ACR Steel)</li> <li><b>18</b> Other</li> </ul> |

### Element Data

<b>Element Group:</b>	Abutments					<b>Length:</b>	
<b>Element Name:</b>	Abutment Walls					<b>Width:</b>	5.5 (m)
<b>Location:</b>	East and West					<b>Height:</b>	2.2 (m)
<b>Element Description:</b>						<b>Count:</b>	2
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	24.2 (sq.m)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	sq.m	0.00	12.3	5.2	6.7	<b>BCI TEV: 21780.0</b>	<b>BCI CEV: 10174.5</b>
<b>Comments:</b>	Severe spall east lower quadrant starting at bottom of quadrant. Light to severe scaling. Severe spalling top of east footings. Light to medium scaling on both sides.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<p><b>Comments</b></p> <p>Repair poor concrete, install erosion protection at NE side</p> <p><b>Type</b></p> <p><input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace</p>						<p><b>Timing</b></p> <p><input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now &lt; 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent</p>	
						<p><input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent</p>	

<b>Element Group:</b>	Abutments					<b>Length:</b>	2.9 (m)		
<b>Element Name:</b>	Wingwalls					<b>Width:</b>			
<b>Location:</b>	4 Corners					<b>Height:</b>	1.5 (m)		
<b>Element Description:</b>						<b>Count:</b>	4		
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	17.4 (sq.m)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	sq.m	0.00	0.00	9.5	7.9	<b>BCI TEV:</b> 6090.0		<b>BCI CEV:</b> 1330.0	
<b>Comments:</b>	Large crack with spalling at NE quadrant, loss of wingwall segment seems imminent. Severe spalling, cracking, efflorescence and delamination on 50% of SE and SW wingwalls. Scaling and some scouring noted along bottom of wingwalls.								
<b>Recommended work:</b>					<b>Maintenance Needs:</b>				
<b>Comments</b> Replace.					<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent  Install scour protection at north side.				
<b>Type</b> <input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace									
<b>Timing</b> <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent									

<b>Element Group:</b>	Accessories					<b>Length:</b>			
<b>Element Name:</b>	Signs					<b>Width:</b>			
<b>Location:</b>						<b>Height:</b>			
<b>Element Description:</b>						<b>Count:</b>	8		
<b>Material:</b>						<b>Total Quantity:</b>	8.0		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	08. Pedestrian/vehicular hazard			
	each	0.00	4.0	0.00	4.0	<b>BCI TEV:</b> 800.0		<b>BCI CEV:</b> 300.0	
<b>Comments:</b>	No hazard Warning Signs present. However OFSC trails sign, Municipality use at your own risk sign, and trail markers signs are present. Trail ends sign on west side for west bound traffic is also present.								
<b>Recommended work:</b>					<b>Maintenance Needs:</b> 18 - Other				
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input checked="" type="checkbox"/> Urgent  Install hazard warning signs at barrier ends.				
<b>Type Timing</b>									

<b>Element Group:</b>	Approaches	<b>Length:</b>	
<b>Element Name:</b>	Barriers	<b>Width:</b>	
<b>Location:</b>		<b>Height:</b>	
<b>Element Description:</b>		<b>Count:</b>	0
<b>Material:</b>		<b>Total Quantity:</b>	0.0
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>		<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>
	m	0.00	0.00
	<b>Fair</b>	<b>Poor*</b>	08. Pedestrian/vehicular hazard
			<b>BCI TEV:</b>
<b>Comments:</b>	None Present. Should be added.		
<b>Recommended work:</b>		<b>Maintenance Needs:</b>	
<b>Comments</b>		<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
Install approach guide rail if used by motorists or snowmobiles.			
<b>Type</b>	<b>Timing</b>		
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace		<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input checked="" type="checkbox"/> Urgent	

<b>Element Group:</b>	Approaches	<b>Length:</b>	6.0 (m)
<b>Element Name:</b>	Wearing surface	<b>Width:</b>	4.4 (m)
<b>Location:</b>		<b>Height:</b>	
<b>Element Description:</b>		<b>Count:</b>	2
<b>Material:</b>	Gravel	<b>Total Quantity:</b>	52.8 (sq.m)
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>		<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>
	sq.m	0.00	0.00
	<b>Fair</b>	<b>Poor*</b>	
			<b>BCI TEV:</b> 316.8
			<b>BCI CEV:</b> 126.72
<b>Comments:</b>	Noted that road is not maintained by municipality, it is an OFSC trail. Severe wheel tracking with vegetation on east approach		
<b>Recommended work:</b>		<b>Maintenance Needs:</b>	
<b>Comments</b>		<input type="checkbox"/> 1 year, <input checked="" type="checkbox"/> 2 years, <input type="checkbox"/> Urgent  Clear vegetation and regrade.	
<b>Type Timing</b>			

<b>Element Group:</b>	Barriers					<b>Length:</b>	0.1 (m)	
<b>Element Name:</b>	Posts					<b>Width:</b>	0.1 (m)	
<b>Location:</b>	North and South					<b>Height:</b>	0.6 (m)	
<b>Element Description:</b>						<b>Count:</b>	30	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	7.2 (sq.m)	
<b>Element Type:</b>	Concrete Balustrade					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	each	0.00	0.00	7.2	0.00	<b>BCI TEV:</b> 1440.0	<b>BCI CEV:</b> 576.0	
<b>Comments:</b>	Medium scaling, narrow to medium cracking, and heavy vegetation growing over barrier.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 2 - <i>Bridge Cleaning</i>		
<b>Comments</b>						<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>						Remove excessive vegetation.		

<b>Element Group:</b>	Barriers					<b>Length:</b>	7.3 (m)	
<b>Element Name:</b>	Railing Systems					<b>Width:</b>	0.3 (m)	
<b>Location:</b>	East and West					<b>Height:</b>	0.1 (m)	
<b>Element Description:</b>						<b>Count:</b>	2	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	14.6 (m)	
<b>Element Type:</b>	Concrete Balustrade					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	m	0.00	0.00	14.6	0.00	<b>BCI TEV:</b> 2920.0	<b>BCI CEV:</b> 1168.0	
<b>Comments:</b>	Barriers have medium scaling, narrow to medium cracking, and vegetation growing over barrier from deck top.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 2 - <i>Bridge Cleaning</i>		
<b>Comments</b>						<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>						Bridge Cleaning and Remove Excessive Vegetation.		

<b>Element Group:</b>	Beams/Main Longitudinal Elements					<b>Length:</b>	6.1 (m)	
<b>Element Name:</b>	Girders					<b>Width:</b>	0.3 (m)	
<b>Location:</b>						<b>Height:</b>	0.46 (m)	
<b>Element Description:</b>						<b>Count:</b>	4	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	35.6 (sq.m)	
<b>Element Type:</b>	Box beam					<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	sq.m	0.00	27.7	3.6	4.3	<b>BCI TEV: 7120.0</b>	<b>BCI CEV: 4443.0</b>	
<b>Comments:</b>	Large spall exposing rebar at sw beam (pictured). General spalling among all beams. Horizontal cracking at connection to abutment wall centre two beams west side. Wet areas near deck outlets (now covered by dirt).							
<b>Recommended work:</b>					<b>Maintenance Needs:</b>			
<b>Comments</b> Concrete repair.					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type</b>		<b>Timing</b>						
<input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace		<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent						

<b>Element Group:</b>	Decks					<b>Length:</b>	7.3 (m)	
<b>Element Name:</b>	Deck Top					<b>Width:</b>	4.9 (m)	
<b>Location:</b>						<b>Height:</b>		
<b>Element Description:</b>	Deck Top.					<b>Count:</b>	1	
<b>Material:</b>	Cast-In-Place Concrete					<b>Total Quantity:</b>	35.8 (sq.m)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	11. Deck drainage		
	sq.m	0.00	0.00	35.8	0.00	<b>BCI TEV: 4296.0</b>	<b>BCI CEV: 1718.4</b>	
<b>Comments:</b>	Not visible due to earth cover and heavy vegetation.							
<b>Recommended work:</b>					<b>Maintenance Needs:</b>			
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type</b>		<b>Timing</b>						

<b>Element Group:</b>	Decks	<b>Length:</b>	
<b>Element Name:</b>	Drainage System	<b>Width:</b>	
<b>Location:</b>		<b>Height:</b>	
<b>Element Description:</b>		<b>Count:</b>	6
<b>Material:</b>	Cast-In-Place Concrcte	<b>Total Quantity:</b>	6.0 (each)
<b>Element Type:</b>	Holes in Deck	<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>		<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>
	each	0.00	0.00
	<b>Fair</b>	<b>Poor*</b>	11. Deck drainage
	0.00	6.0	<b>BCI TEV:</b>
<b>Comments:</b>	Drains holes terminate at soffit, all deck drains are plugged with material. Deck drains are causing scaling and moisture staining on abutment walls / girders.		
<b>Recommended work:</b>		<b>Maintenance Needs:</b>	
<b>Comments</b> Install deck drains and extend past soffit.		<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type</b> <input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace	<b>Timing</b> <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent		

<b>Element Group:</b>	Decks	<b>Length:</b>	6.1 (m)
<b>Element Name:</b>	Soffit - Thick slab	<b>Width:</b>	3.7 (m)
<b>Location:</b>	Interior	<b>Height:</b>	
<b>Element Description:</b>		<b>Count:</b>	1
<b>Material:</b>	Cast In Place Concrete	<b>Total Quantity:</b>	22.57 (sq.m)
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>		<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>
	sq.m	0.00	10.77
	<b>Fair</b>	<b>Poor*</b>	
	4.5	7.3	<b>BCI TEV:</b> 7899.5
<b>Comments:</b>	Numerous spells with exposed rebar, scaling and wet areas around deck drains. Delamination around areas of spalling and exposed rebar. Past areas of patching and repair have begun to flake off at interface between girders and soffit.		
<b>Recommended work:</b>		<b>Maintenance Needs:</b>	
<b>Comments</b> Concrete patch repair.		<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type</b> <input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace	<b>Timing</b> <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent		

<b>Element Group:</b>	Decks					<b>Length:</b>	7.3 (m)		
<b>Element Name:</b>	Wearing Surface					<b>Width:</b>	4.9 (m)		
<b>Location:</b>						<b>Height:</b>			
<b>Element Description:</b>						<b>Count:</b>	0		
<b>Material:</b>	Gravel					<b>Total Quantity:</b>	35.8 (sq.m)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	11. Deck drainage			
	sq.m	0.00	0.00	35.8	0.00	<b>BCI TEV:</b> 895.0		<b>BCI CEV:</b> 358.0	
<b>Comments:</b>	Noted that road is not maintained by municipality. 0.3 m of earth cover with severe wheel tracking, and heavy vegetation over structure.								
<b>Recommended work:</b>						<b>Maintenance Needs:</b>			
<b>Comments</b>						<input checked="" type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type Timing</b>						Remove excess fill and clear vegetation from over top of structure.			

<b>Element Group:</b>	Embankments & Streams					<b>Length:</b>			
<b>Element Name:</b>	Embankments					<b>Width:</b>			
<b>Location:</b>	All four quadrants					<b>Height:</b>			
<b>Element Description:</b>						<b>Count:</b>	4		
<b>Material:</b>						<b>Total Quantity:</b>	4.0 (each)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	each	0.00	0.00	4.0	0.00	<b>BCI TEV:</b> 4000.0		<b>BCI CEV:</b> 1600.0	
<b>Comments:</b>	Most quadrants appear to be well vegetated and stable. Erosion at southwest quadrant has been mitigated with the installation of new gravel.								
<b>Recommended work:</b>						<b>Maintenance Needs:</b>			
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type Timing</b>									

<b>Element Group:</b>	Embankments & Streams					<b>Length:</b>	
<b>Element Name:</b>	Streams and Waterways					<b>Width:</b>	
<b>Location:</b>						<b>Height:</b>	
<b>Element Description:</b>						<b>Count:</b>	1
<b>Material:</b>						<b>Total Quantity:</b>	1.0 (each)
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	all	0.00	1.0	0.00	0.00	<b>BCI TEV:</b> 1000.0	<b>BCI CEV:</b> 750.0
<b>Comments:</b>	Mostly clear with a large timber at east abutment under waterline, not affecting flow at structure.						
<b>Recommended work:</b>						<b>Maintenance Needs:</b>	
<b>Comments</b>						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent	
<b>Type Timing</b>							

\* A quantity must be estimated using the appropriate unit (e.g. sq.m.). Percent should not be used.

Repair and Rehabilitation Required		Priority					Estimated Cost
Element	Repair and Rehabilitation Required	> 10 years	6 - 10 years	1 - 5 years	Now < 1 year	Urgent	
Structure	Replace structure			✓			\$400,000.00
<b>Total</b>							\$400,000.00

Associated Work	Comments	Estimated Cost
Approaches		
Detours		
Traffic Control		
Utilities		
Eng Design and Supervision		
Environmental Study		
Other		
Contingencies		
<b>Total</b>		



**Description: Looking east**



**Description: North Elevation**



**Description: Looking west**



**Description: East**  
**Abutments / Abutment Walls (East and West)**



**Description: West**  
**Abutments / Abutment Walls (East and West)**



**Description: Ne quadrant**  
**Abutments / Wingwalls (4 Corners)**



**Description: Nw wall**

**Abutments / Wingwalls (4 Corners)**



**Description: Severe crack and spalling.**

**Abutments / Wingwalls (4 Corners)**



**Description: Nw drain**  
**Decks / Drainage System**



**Description: Mid drain South Side (wet)**  
**Decks / Drainage System**



**Description: NE drain**  
**Decks / Drainage System**



**Description: SE end post**  
**Barriers / Posts (North and South)**



**Description: North**  
**Decks / Soffit - Thick slab (Interior)**



**Description: Centre**  
**Decks / Soffit - Thick slab (Interior)**



**Description: South  
Decks / Soffit - Thick slab (Interior)**



**Description: Southwest embankment  
Embankments & Streams / Embankments (All four quadrants)**



**Description: Spalled areas**  
**Beams/Main Longitudinal Elements / Girders**



**Description: East side**  
**Beams/Main Longitudinal Elements / Girders**



**Description: Nw (typ.)**  
**Beams/Main Longitudinal Elements / Girders**



**Description: Late spall w rebar nw**  
**Beams/Main Longitudinal Elements / Girders**

Inventory Data:			
<b>Structure Name</b>	<input style="width: 95%;" type="text" value="Bridge 17 Lot 30, Conc X, Stephenson Ward"/>		
<b>Main Hwy/Road #</b>	<input style="width: 150px;" type="text"/>	<input checked="" type="checkbox"/> On <input type="checkbox"/> Under	<b>Crossing Type:</b> <input checked="" type="checkbox"/> Navi. Water, <input type="checkbox"/> Non-Navi. Water, <input type="checkbox"/> Rail, <input type="checkbox"/> Road, <input type="checkbox"/> Ped., <input type="checkbox"/> Other, <input type="checkbox"/> Over water, <input type="checkbox"/> Over Road, <input type="checkbox"/> Under railway, <input type="checkbox"/> Unknown, <input type="checkbox"/> Over railway, <input type="checkbox"/> Under Road
<b>Hwy/Road Name</b>	<input style="width: 95%;" type="text" value="Gall Trail"/>		
<b>Structure Location</b>	<input style="width: 95%;" type="text" value="1.79km East of Orr Road"/>		
<b>Latitude</b>	<input style="width: 150px;" type="text" value="45.256634"/>	<b>Longitude</b>	<input style="width: 150px;" type="text" value="-79.272738"/>
<b>Northing</b>	<input style="width: 150px;" type="text"/>	<b>Easting</b>	<input style="width: 150px;" type="text"/>
<b>Owner(s)</b>	<input style="width: 150px;" type="text" value="Town of Huntsville"/>	<b>Heritage designation:</b> <input checked="" type="checkbox"/> Not Cons., <input type="checkbox"/> Cons./not App., <input type="checkbox"/> List/not Desig., <input type="checkbox"/> Desig./not List, <input type="checkbox"/> Desig. & List	
<b>MTO Region</b>	<input style="width: 150px;" type="text" value="Northeastern"/>	<b>Road Class:</b> <input type="checkbox"/> Freeway, <input type="checkbox"/> Arterial, <input type="checkbox"/> Collector, <input type="checkbox"/> Collector Residential, <input type="checkbox"/> Collector Commercial, <input checked="" type="checkbox"/> Local, <input type="checkbox"/> Local Residential, <input type="checkbox"/> Local Commercial, <input type="checkbox"/> Rural Expressways, <input type="checkbox"/> Alleyways, <input type="checkbox"/> 4 or more lanes	
<b>MTO District</b>	<input style="width: 150px;" type="text" value="Huntsville"/>	<b>Posted Speed</b>	<input style="width: 50px;" type="text" value="60"/> <b>No. of Lanes</b> <input style="width: 50px;" type="text" value="1"/>
<b>Old County</b>	<input style="width: 150px;" type="text" value="Simcoe-Muskoka"/>	<b>AADT</b>	<input style="width: 50px;" type="text" value="250.0"/> <b>% Trucks</b> <input style="width: 50px;" type="text"/>
<b>Geographic Twp.</b>	<input style="width: 150px;" type="text" value="Stephenson"/>	<b>Inspection Route Sequence</b>	<input style="width: 150px;" type="text"/>
<b>Structure Type</b>	<input style="width: 150px;" type="text" value="Timber Deck on Steel Girders"/>	<b>Interchange Number</b>	<input style="width: 150px;" type="text"/>
<b>Total Deck Length</b>	<input style="width: 100px;" type="text" value="11.1"/> (m)	<b>Interchange Structure Number</b>	<input style="width: 150px;" type="text"/>
<b>Overall Str. Width</b>	<input style="width: 100px;" type="text" value="4.9"/> (m)	<b>Min. Vertical Clearance</b>	<input style="width: 150px;" type="text"/> (m)
<b>Total Deck Area</b>	<input style="width: 100px;" type="text" value="54.4"/> (sq.m)	<b>Special Routes:</b>	<input type="checkbox"/> Transit, <input type="checkbox"/> Truck, <input type="checkbox"/> School, <input type="checkbox"/> Bicycle, <input type="checkbox"/> Emergency, <input type="checkbox"/> Commuter
<b>Roadway Width</b>	<input style="width: 100px;" type="text" value="4.6"/> (m)	<b>Detour Length Around Bridge</b>	<input style="width: 100px;" type="text" value="N/A"/> (km)
<b>Skew Angle</b>	<input style="width: 50px;" type="text" value="0"/> (Degrees)	<b>Direction of Structure</b>	<input style="width: 150px;" type="text" value="East to West"/>
<b>No. of Spans</b>	<input style="width: 50px;" type="text" value="1"/>	<b>Fill on Structure</b>	<input style="width: 150px;" type="text"/> (m)
<b>Span Lengths</b>	<input style="width: 95%;" type="text" value="4.5"/> (m)		

Historical Data:			
<b>Year Built</b>	<input style="width: 50px;" type="text" value="1970"/>	<b>Year of Last Major Rehab.</b>	<input style="width: 50px;" type="text" value="2009"/>
<b>Last OSIM Inspection</b>	<input style="width: 50px;" type="text" value="2015"/>	<b>Last Evaluation</b>	<input style="width: 50px;" type="text"/>
<b>Last Enhanced OSIM Inspection</b>	<input style="width: 50px;" type="text"/>	<b>Current Load Limit</b>	<input style="width: 50px;" type="text" value="/ /"/> (tonnes)
<b>Enhanced Access Equipment</b>	<input style="width: 50px;" type="text" value="Boat"/>	<b>Load Limit By-Law #</b>	<input style="width: 50px;" type="text" value="/ /"/>
<b>Last Underwater Inspection</b>	<input style="width: 50px;" type="text"/>	<b>By-Law Expiry Date</b>	<input style="width: 50px;" type="text"/>
<b>Last Condition Survey</b>	<input style="width: 50px;" type="text"/>		
<b>Rehab History: (Date/description)</b>			
2009 Replaced 3 Steel Girders. Installed 38 x 140 transverse laminated deck with running strips and curbs			

Scheduled Improvements:	
<b>Regional Priority Number</b> <input style="width: 80px;" type="text"/>	<b>Programmed Work Year</b> <input style="width: 80px;" type="text"/>
<b><i>Nature of Program Work:</i></b>	

Appraisal Indices:		Comments
<b>Fatigue</b>		
<b>Seismic</b>		
<b>Scour</b>		
<b>Flood</b>		
<b>Geometrics</b>		
<b>Barrier</b>		
<b>Curb</b>		
<b>Load Capacity</b>		

Field Inspection Information:			
<b>Date of Inspection:</b>	June 28, 2018	<b>Inspection Type</b>	OSIM
<b>Inspector:</b>	Ben Belfry		
<b>Others in Party:</b>	Sean Wetmore		
<b>Access Equipment Used:</b>	Tape, waders		
<b>Weather:</b>	Sunny		
<b>Temperature:</b>	30.0 °C		

Upcoming Inspections and Investigations:		
Due date	Priority	Comments

Additional Investigations Required:	Priority		
	None	Normal	Urgent
<b>Material Condition Survey</b>	✓		
<b>Detailed Deck Condition Survey:</b>	✓		
<b>Non-destructive Delamination Survey of Asphalt-Covered Deck:</b>	✓		
<b>Concrete Substructure Condition Survey:</b>	✓		
<b>Detailed Coating Condition Survey:</b>	✓		
<b>Detailed Timber Investigation</b>	✓		
<b>Post-Tensioned Strand Investigation</b>	✓		
<b>Underwater Investigation:</b>	✓		
<b>Fatigue Investigation:</b>	✓		
<b>Seismic Investigation:</b>	✓		
<b>Structure Evaluation:</b>	✓		
<b>Monitoring</b>	✓		
<b>Monitoring of Deformations, Settlements and Movements:</b>	✓		
<b>Monitoring Crack Widths:</b>	✓		

**Investigation Notes:**  
*None*

<b>Overall Structure Notes:</b>	
<b>Recommended Work on Structure:</b>	
<b>Timing of Recommended Work:</b>	<input type="checkbox"/> Urgent, <input checked="" type="checkbox"/> Now < 1 year, <input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> > 10 years
<b>Overall Comments:</b>	Overall structure is in fair condition, cribbing requires replacement.
<b>Date of Next Inspection:</b>	2020

<b>Overall Bridge Condition:</b>	56.59
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Recommended inspections and Investigations	Due date	Priority	Comments
<b>Boat Inspection</b>			
<b>Bridge master</b>			
<b>Coating survey</b>			
<b>Detailed condition survey</b>			
<b>Evaluation</b>			
<b>Fatigue</b>			
<b>Monitor Settlements/Movements</b>			
<b>Seismic</b>			
<b>Substructure condition survey</b>			
<b>Underwater</b>			

**Suspected Performance Deficiencies**

- |                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li><b>01</b> Load carrying capacity</li> <li><b>02</b> Excessive deformations (deflections &amp; rotations)</li> <li><b>03</b> Continuing settlement</li> <li><b>04</b> Continuing movements</li> <li><b>05</b> Seized bearings</li> </ul>                                                | <ul style="list-style-type: none"> <li><b>06</b> Bearing not uniformly loaded/unstable</li> <li><b>07</b> Jammed expansion joint</li> <li><b>08</b> Pedestrian/vehicular hazard</li> <li><b>09</b> Rough riding surface</li> <li><b>10</b> Surface ponding</li> <li><b>11</b> Deck drainage</li> </ul>         | <ul style="list-style-type: none"> <li><b>12</b> Slippery surfaces</li> <li><b>13</b> Flooding/channel blockage</li> <li><b>14</b> Undermining of foundation</li> <li><b>15</b> Unstable embankments</li> <li><b>16</b> Other</li> <li><b>17</b> None</li> </ul>                      |
| <b>Maintenance Needs</b>                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li><b>01</b> Lift and Swing Bridge Maintenance</li> <li><b>02</b> Bridge Cleaning</li> <li><b>03</b> Bridge Handrail Maintenance</li> <li><b>04</b> Painting Steel Bridge Structures</li> <li><b>05</b> Bridge Deck Joint Repair</li> <li><b>06</b> Bridge Bearing Maintenance</li> </ul> | <ul style="list-style-type: none"> <li><b>07</b> Repair to Structural Steel</li> <li><b>08</b> Repair of Bridge Concrete</li> <li><b>09</b> Repair of Bridge Timber</li> <li><b>10</b> Bailey bridges - Maintenance</li> <li><b>11</b> Animal/Pest Control</li> <li><b>12</b> Bridge Surface Repair</li> </ul> | <ul style="list-style-type: none"> <li><b>13</b> Erosion Control at Bridges</li> <li><b>14</b> Concrete Sealing</li> <li><b>15</b> Rout and Seal</li> <li><b>16</b> Bridge Deck Drainage</li> <li><b>17</b> Scaling (Loose Concrete or ACR Steel)</li> <li><b>18</b> Other</li> </ul> |

### Element Data

<b>Element Group:</b>	Abutments					<b>Length:</b>	
<b>Element Name:</b>	Abutment Walls					<b>Width:</b>	4.9 (m)
<b>Location:</b>	East and West					<b>Height:</b>	1.4 (m)
<b>Element Description:</b>						<b>Count:</b>	2
<b>Material:</b>	Wood					<b>Total Quantity:</b>	13.72 (sq.m)
<b>Element Type:</b>	Wood Crib					<b>Not Inspected:</b>	<input type="checkbox"/>
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>
<b>Protection System:</b>						<b>Perform. Deficiencies</b>	
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	1 - Load carrying capacity	
	sq.m	0.00	5.92	3.9	3.9	<b>BCI TEV:</b> 12348.0	<b>BCI CEV:</b> 5400.0
<b>Comments:</b>	The timber cribs are filled with fieldstone ballast. A horizontal member near the waterline on the east abutment has broken away, ballast has been lost. Another member on the inside face of the cribs has broken at approximately mid-length. This has left the longitudinal and transverse timbers above it cantilevered over the side of the cribs. The destruction of the crib timbers has allowed the north girder to rotate. The west abutment appears to have rotated inwards toward the east abutment.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b> Repair/replace abutments.					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>		<b>Timing</b>					
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace		<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input checked="" type="checkbox"/> Urgent					

<b>Element Group:</b>	Abutments					<b>Length:</b>		
<b>Element Name:</b>	Bearings					<b>Width:</b>		
<b>Location:</b>	East and West Abutments					<b>Height:</b>		
<b>Element Description:</b>						<b>Count:</b>	12	
<b>Material:</b>	Wood					<b>Total Quantity:</b>	12.0 (each)	
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>	
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>	
<b>Protection System:</b>						<b>Perform. Deficiencies</b>		
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>			
	each	0.00	9.0	3.0	0.00	<b>BCI TEV: 12000.0</b>		<b>BCI CEV: 7950.0</b>
<b>Comments:</b>	Bearings appear to be wooden shims placed under each girder. Crushing and permanent indentation of the shims was observed in some locations. Southeastern inner bearing block showing signs of rot and crushing. Southwest inner bearing crushing approximately 20%.							
<b>Recommended work:</b>						<b>Maintenance Needs:</b>		
<p><b>Comments</b></p> <p>Replacing deficient bearings in required locations during crib rehabilitation.</p> <p><b>Type</b></p> <p><input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace</p> <p><b>Timing</b></p> <p><input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now &lt; 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent</p>						<p><input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent</p>		

<b>Element Group:</b>	Accessories					<b>Length:</b>			
<b>Element Name:</b>	Signs					<b>Width:</b>			
<b>Location:</b>						<b>Height:</b>			
<b>Element Description:</b>						<b>Count:</b>	8		
<b>Material:</b>	Steel					<b>Total Quantity:</b>	8.0 (each)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	08. Pedestrian/vehicular hazard			
	each	0.00	3.0	1.0	4.0	<b>BCI TEV:</b> 800.0		<b>BCI CEV:</b> 265.0	
<b>Comments:</b>	Both narrow crossing and speed warning signs in good condition, needs vegetation cleared from in front of both. All hazard signs at bridge corners bent or dislocated. Boat wake warning sign in good condition. Load capacity maximum, on west end has surface cracking.								
<b>Recommended work:</b>						<b>Maintenance Needs:</b> 17. Other			
<b>Comments</b> Replace all hazard signs.						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input checked="" type="checkbox"/> Urgent  Restore signs to their correct orientation. Clear vegetation from one lane and speed warning signs.			
<b>Type</b>	<b>Timing</b>								
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace	<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input checked="" type="checkbox"/> Urgent								

<b>Element Group:</b>	Approaches					<b>Length:</b>	(m)		
<b>Element Name:</b>	Barriers					<b>Width:</b>	(m)		
<b>Location:</b>	East and West					<b>Height:</b>			
<b>Element Description:</b>						<b>Count:</b>	0		
<b>Material:</b>						<b>Total Quantity:</b>	0.0 (m)		
<b>Element Type:</b>						<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe					<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>						<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>				
	m	0.00	0.00	0.00	0.00	<b>BCI TEV:</b>		<b>BCI CEV:</b>	
<b>Comments:</b>	None Present. Should be added.								
<b>Recommended work:</b>						<b>Maintenance Needs:</b>			
<b>Comments</b> Install SBGR system and end treatments.						<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent			
<b>Type</b>	<b>Timing</b>								
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace	<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent								

<b>Element Group:</b>	Approaches	<b>Length:</b>	6.0 (m)				
<b>Element Name:</b>	Wearing surface	<b>Width:</b>	4.6 (m)				
<b>Location:</b>	East and west of bridge	<b>Height:</b>					
<b>Element Description:</b>		<b>Count:</b>	2				
<b>Material:</b>	Asphalt	<b>Total Quantity:</b>	55.2 (sq.m)				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	03. Continuing settlement	
	sq.m	0.00	5.0	34.2	10.0	<b>BCI TEV:</b> 331.2	<b>BCI CEV:</b> 104.58
<b>Comments:</b>	Wheel rutting, settlement behind abutments, and various narrow longitudinal cracks on both approaches. Damaged asphalt on north east approach.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>  Repave approaches.  <b>Type</b> <input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace					<b>Timing</b> <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent		
					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		

<b>Element Group:</b>	Beams/Main Longitudinal Elements	<b>Length:</b>	11.1 (m)				
<b>Element Name:</b>	Girders	<b>Width:</b>	0.17 (m)				
<b>Location:</b>	Middle	<b>Height:</b>	0.32 (m)				
<b>Element Description:</b>		<b>Count:</b>	6				
<b>Material:</b>	Steel	<b>Total Quantity:</b>	76.6 (sq.m)				
<b>Element Type:</b>	I-Type	<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input checked="" type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>	2 - Excessive deformations	
	sq.m	0.00	44.7	0.00	31.9	<b>BCI TEV:</b> 15320.0	<b>BCI CEV:</b> 6705.0
<b>Comments:</b>	The north girder has rotated as a result of the failure of the underlying cribs. 3 of the 6 girders have severe corrosion with flaking patina on the flanges.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>  Replace corroded girders.  <b>Type</b> <input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace					<b>Timing</b> <input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent		
					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		

<b>Element Group:</b>	Decks	<b>Length:</b>	11.8 (m)		
<b>Element Name:</b>	Deck Top	<b>Width:</b>	4.6 (m)		
<b>Location:</b>		<b>Height:</b>	0.15 (m)		
<b>Element Description:</b>		<b>Count:</b>	1		
<b>Material:</b>	Pressure Treated Wood	<b>Total Quantity:</b>	54.4 (sq.m)		
<b>Element Type:</b>	Laminated Wood Decking - Transverse	<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>		<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>
	sq.m	0.00	57.8	3.9	0.5
		<b>BCI TEV:</b> 6528.0	<b>BCI CEV:</b> 5389.2		
<b>Comments:</b>	Deck boards in good condition. Pressure treatment visible. Running boards cracked. Edge running boards cracked and coming off deck surface at road interface.				
<b>Recommended work:</b>			<b>Maintenance Needs:</b>		
<b>Comments</b>			<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>	<b>Timing</b>				
<input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace	<input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent				

<b>Element Group:</b>	Decks	<b>Length:</b>	11.1 (m)		
<b>Element Name:</b>	Soffit - Thin Slab	<b>Width:</b>	4.2 (m)		
<b>Location:</b>		<b>Height:</b>			
<b>Element Description:</b>	Timber Deck Laminations Over Steel Girders	<b>Count:</b>	1		
<b>Material:</b>	Wood	<b>Total Quantity:</b>	46.6 (sq.m)		
<b>Element Type:</b>	Laminated Wood Decking - Transverse	<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>		
<b>Protection System:</b>		<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>
	sq.m	0.00	23.8	22.8	0.00
		<b>BCI TEV:</b> 5592.0	<b>BCI CEV:</b> 3236.4		
<b>Comments:</b>	Soffit appears to be in fair to poor condition. Some leakage of water through the lamination joints.				
<b>Recommended work:</b>			<b>Maintenance Needs:</b>		
<b>Comments</b>			<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b>	<b>Timing</b>				
<input checked="" type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input type="checkbox"/> Replace	<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent				

<b>Element Group:</b>	Decks	<b>Length:</b>	11.1 (m)		
<b>Element Name:</b>	Wearing Surface	<b>Width:</b>	0.95 (m)		
<b>Location:</b>		<b>Height:</b>			
<b>Element Description:</b>	Timber Running Boards	<b>Count:</b>	2		
<b>Material:</b>	Wood	<b>Total Quantity:</b>	21.09 (sq.m)		
<b>Element Type:</b>	Laminated Wood Decking	<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input checked="" type="checkbox"/>		
<b>Protection System:</b>	Running Boards	<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>
	sq.m	0.00	16.69	3.9	0.5
		<b>BCI TEV:</b> 527.25	<b>BCI CEV:</b> 351.94		
<b>Comments:</b>	Running boards cracked. Edge running boards cracked and coming off deck surface at road interface.				
<b>Recommended work:</b>			<b>Maintenance Needs:</b>		
<b>Comments</b>  2"x8" Running Boards			<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type</b> <b>Timing</b>  <input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace <input type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input checked="" type="checkbox"/> Urgent					

<b>Element Group:</b>	Embankments & Streams	<b>Length:</b>			
<b>Element Name:</b>	Embankments	<b>Width:</b>			
<b>Location:</b>		<b>Height:</b>			
<b>Element Description:</b>	Southeast Embankment with Vegetated Slopes	<b>Count:</b>	4		
<b>Material:</b>		<b>Total Quantity:</b>	4.0		
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>		
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>		
<b>Protection System:</b>		<b>Perform. Deficiencies</b>			
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>
	each	0.00	4.0	0.00	0.00
		<b>BCI TEV:</b> 4000.0	<b>BCI CEV:</b> 3000.0		
<b>Comments:</b>	Appear to be stable and well vegetated.				
<b>Recommended work:</b>			<b>Maintenance Needs:</b>		
<b>Comments</b>  <b>Type Timing</b>			<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		

<b>Element Group:</b>	Embankments & Streams	<b>Length:</b>					
<b>Element Name:</b>	Streams and Waterways	<b>Width:</b>					
<b>Location:</b>		<b>Height:</b>					
<b>Element Description:</b>		<b>Count:</b>	1				
<b>Material:</b>		<b>Total Quantity:</b>	1.0				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input checked="" type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	all	0.00	1.0	0.00	0.00	<b>BCI TEV:</b> 1000.0	<b>BCI CEV:</b> 750.0
<b>Comments:</b>	Clear of debris.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>							

<b>Element Group:</b>	Sidewalks/curbs	<b>Length:</b>	11.1 (m)				
<b>Element Name:</b>	Curbs	<b>Width:</b>	0.14 (m)				
<b>Location:</b>	North and South	<b>Height:</b>	0.14 (m)				
<b>Element Description:</b>		<b>Count:</b>	2				
<b>Material:</b>	Wood	<b>Total Quantity:</b>	6.2 (sq.m)				
<b>Element Type:</b>		<b>Not Inspected:</b>	<input type="checkbox"/>				
<b>Environment:</b>	<input type="checkbox"/> Benign, <input type="checkbox"/> Moderate, <input checked="" type="checkbox"/> Severe	<b>Limited Inspection:</b>	<input type="checkbox"/>				
<b>Protection System:</b>		<b>Perform. Deficiencies</b>					
<b>Condition Data:</b>	<b>Units</b>	<b>Exc.</b>	<b>Good</b>	<b>Fair</b>	<b>Poor*</b>		
	sq.m	0.00	0.00	4.1	2.1	<b>BCI TEV:</b> 248.0	<b>BCI CEV:</b> 65.6
<b>Comments:</b>	Splitting and twisting has caused curbs to become misaligned on the north side. Splitting on the southside mostly in the western quadrant gutter still functional under curb. Slight Impact damage at south east curb.						
<b>Recommended work:</b>					<b>Maintenance Needs:</b>		
<b>Comments</b>					<input type="checkbox"/> 1 year, <input type="checkbox"/> 2 years, <input type="checkbox"/> Urgent		
<b>Type Timing</b>							
Replace Timber Curb on Deck  <input type="checkbox"/> Rehab, <input type="checkbox"/> Repair, <input checked="" type="checkbox"/> Replace					<input checked="" type="checkbox"/> 1 - 5 years, <input type="checkbox"/> Now < 1 year, <input type="checkbox"/> 6 - 10 years, <input type="checkbox"/> Urgent		

\* A quantity must be estimated using the appropriate unit (e.g. sq.m.). Percent should not be used.

Repair and Rehabilitation Required		Priority					Estimated Cost
Element	Repair and Rehabilitation Required	> 10 years	6 - 10 years	1 - 5 years	Now < 1 year	Urgent	
Structure	Replace structure				✓		\$250,000.00
<b>Total</b>							\$250,000.00

Associated Work	Comments	Estimated Cost
Approaches		
Detours		
Traffic Control		
Utilities		
Eng Design and Supervision		
Environmental Study		
Other		
Contingencies		
<b>Total</b>		



**Description: Looking East**



**Description: South elevation**



**Description: NE**

**Abutments / Bearings (East and West Abutments)**



**Description: SW inner bearing**

**Abutments / Bearings (East and West Abutments)**



**Description: SE**

**Abutments / Bearings (East and West Abutments)**



**Description: NW**

**Abutments / Bearings (East and West Abutments)**



**Description: Dislocated SE hazard**

**Accessories / Signs**



**Description: NW dislocated hazard sign**

**Accessories / Signs**



**Description: Dislocated SW hazard**

**Accessories / Signs**



**Description: One lane and speed warning on W side**

**Accessories / Signs**



**Description: Vegetation covering view of W one lane sign**

**Accessories / Signs**



**Description: S side boat wake warning**

**Accessories / Signs**



**Description: E one lane and speed warning**

**Accessories / Signs**



**Description: W side Load capacity with surface cracking**

**Accessories / Signs**



**Description: Bent NE hazard**

**Accessories / Signs**



**Description: E approach**

**Approaches / Wearing surface (East and west of bridge)**



**Description: W approach**

**Approaches / Wearing surface (East and west of bridge)**



**Sidewalks/curbs / Curbs (North and South)**



**Description: W**  
**Decks / Deck Top**



**Description: E**  
**Decks / Deck Top**



**Description: N side**  
**Decks / Soffit - Thin Slab**



**Description: SE embankment**  
**Embankments & Streams / Embankments**



**Description: NW embankment (typical for NE and SW)**

**Embankments & Streams / Embankments**