

BRIDGE MAINTENANCE & INSPECTION RESPONSIBILITIES

Need for Inspection and Maintenance

- Safety
- Protection of investment
- maximize functional life

Legislation

- Municipal Government Act
 - Definitions
 - (z) road... includes a bridge forming part of a public road
 - 16 (1) The title to all roads in a municipality, other than a city is vested in the Crown in right of Alberta

Municipal Government Act (Continued)

- 18 (1) ...a municipality has the direction, control and management of all roads within the municipality
- 532 (1) Every road... must be kept in a reasonable state of repair by the municipality having regard to
 - (a) character of road...
 - (b) the area it is located
- 532 (2) The municipality is liable for damage caused by... failing to perform its duty...
- 532 (4) A municipality is not liable... unless... loss or damage beyond what is suffered by... all other persons affected by the state of repair.

Municipal Government Act (Continued)

- 532 (6) A municipality is liable... only if “it” should have known of the state of repair
- 532 (7) A municipality is not liable... if “it” proves that it took reasonable steps to prevent the disrepair...
- 533 A municipality is not liable for damages caused if it took reasonable steps to prevent...
 - (a) by the presence, absence or type of any wall, fence, guard rail... traffic control device... adjacent... in... on a road.

Public Highways Development Act

- (4) All provincial highways are subject to direction, control and management of the Minister
- (8) The Minister may make regulations... for
 - (a) design and standards for construction for secondary roads
 - (b) standards for maintenance for secondary roads

Public Highways Development Act

- (2) ...each highway authority is responsible for costs of construction and maintenance of all highways subject to its control and management
- 19) The Minister has the direction, control and management of
 - (a) roads in improvement districts
 - (b) highways through Indian Reserves...
 - (c) highways in cities if title vested in Crown.
 - (forestry roads & secondary highways by agreement...)

Public Highways Development Act (Continued)

- 21 (1) The Minister may enter into an agreement with any... municipality... “to” contribute to the cost of construction and maintenance of any street or road...
- 52 (1) ...the Minister may direct construction or maintenance of a bridge... or enter into an agreement... for
 - (a) paid by Crown
 - (b) Paid by municipality... or other person
 - (c) apportioned between Crown and... other
- whichever the Minister directs.

Traffic Safety Act

- 15 (1) ...municipality may authorize... placing of traffic control devices
- 16 (1) ...municipality may make by-laws
 - (a) ...restricting weights of vehicles...
 - (p) ...closing or restricting... highway... bridge...

Department Policies

- Outline methods of operation
- How legislation is implemented

Legal Liability

- responsibilities defined by
 - legislation
 - policies and procedures
- cannot guarantee accidents will not happen or damage will not occur
- liable - exposed or open to something undesirable such as loss arising from injury or damage to another person or property

Due Diligence

- Not liable for damages or loss if:
 - work is in keeping with legislation, policies or procedures
 - work in keeping with accepted / prevailing standards
 - actions are “reasonable”

Current Maintenance Delivery Process - LRA

- LRA's complete required maintenance activities using either in-house work forces or contracted forces.
- The LRA relies heavily on the accuracy and completeness of the BIM inspection report.
- Quantities shown in the maintenance section of the BIM report form the basis of the scope of work.
- A quality BIM report is expected, and greatly assists the LRA in the delivery of their maintenance program.



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Current Maintenance Delivery Process - AT

- AT Regional bridge offices currently utilize their respective Highway Maintenance Contractor (HMC) to complete required maintenance activities.
- Maintenance and Rehabilitation work is also delivered through the provincial tender process.
- If utilizing the HMC, a Bridge Maintenance Authorization is generated which details the scope of work and the quantities. This document also forms a part of the contractual agreement between AT and the HMC.
- In either case, contractors submit quotes based on the scope of work and quantities, among other things.



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Current Maintenance Delivery Process - AT

- Similar to the LRA, AT bridge staff also rely heavily on the accuracy and completeness of the BIM inspection report.
- Quantities shown in the maintenance section of the BIM report form the basis of the scope of work for either the HMC BMA or provincial tender.
- A quality BIM report is expected, and greatly assists AT bridge staff in the delivery of their maintenance program.
- A second trip to the field by AT staff to gather or confirm quantities is not desirable.



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Current Maintenance Delivery Process - AT

Government of Alberta Transportation		BRIDGE MAINTENANCE AUTHORIZATION		File No: 7473 Date: May 11, 2015 Auth No: BMA2015-036 District: 0
Attention: John Doe Construction Superintendent Contractor: Anywhere Contractors Ltd.		Program: 50000 Job No: 0006432 Contract: 07158.06		
Highway: 2026	Legal Land Location: SW SEC 12 TWP 44 RGE 3 W3M			
Stream: Blindman River	Nearest Town: Buffalo			
Existing Structure: 2 Span RB (13.2m-13.2m)				
Quote Date: Prepared By:	Completion Date: COI 150, 2015	Warranty: As Contract		
Item No.	Description	Units	Estimated Quantity	Units Cost
1	Remove and Replace Existing Deck Joints	L/S	1	
2	Full Depth Repair of Abutment and Pier Diaphragms	m ²	20	
3	Partial Depth Repair of Pier Slab, Deck Soffit and Fenders	m ²	2.5	
4	Partial Depth Repair of Approach Slab	m ²	20	
5	Approach Road Milling and Paving	L/S	1	
6	Blot (Close and Renew Slab)	m ²	170	
7	Clear and Seal Concrete	m ²	110	
8	Minor Miscellaneous Repairs	L/S	1	
			Total Quote	Total Cost
Quote Submitted By: Name & Title			Date	
Department Acceptance of Quote		Completion Details		
Approved By: Name & Title: Donald Swanson, Bridge Manager	Date:	Done By: Name & Title: [Blank]	Date:	HMC Final Inspection by: Name & Title: [Blank]
Approved By: Name & Title: David Wynn, Active Regional Director	Date:	Done By: Name & Title: [Blank]	Date:	AT Final Inspection by: Name & Title: [Blank]



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