

Appendix B

Bridge Study of Alternatives – Existing Details

Asset Inspection Report

Inspection Summary

Batch No: 1MBADES
 Asset ID: 43213B KEMPTVILLE CREEK BRIDGE
 Date 12/04/2001 Contact: G D DOUGA
 Summary MBADES Import - 1999
 Condition: 0.00
 Total Needs 0.00
 Approved By: Test

Phone:

Asset Identification

County Rd CO RD 43
 Name KEMPTVILLE CREEK BRIDGE
 Location 1.1 km E of CO.RD.#44
 Roadside Environment S
 Municipal Number
 &Name KEMPTVILLE CREEK BRIDGE
 &Location KEMPTVILLE CREEK BRIDGE
 Asset Class Bridge
 Material C - Cast in Place
 Subtype RF - Rigid Frame, Vert. Legs
 Adjacent Bridge No
 Articulation C - Continuous
 Crss Typ O-WAT, Over water
 Deck Type CC - Concrete, Cast in Place
 Foundation Type SF - Spread footings
 Deck Area 488 (m2)
 Deck Length 39 (m)
 Deck Width 12.5 (m)
 Lanes 2 (ea)
 Dgn Deck Width 0 (m)
 Dgn Dck Length 0 (m)
 Trav Deck Wdth 9.7 (m)
 Wearing Surf. 0 (m)
 Owner Agency LAG
 Shared? No

Year Built 1955 Road ID: 043222

Condition Assessment

Enter values manually

Condition: 0.00
 Improvement:
 Impr. %: 100.00
 Impr. Cost: 0.00
 Other Needs: 0.00
 Total Needs: 0.00

Upper Limit 0.0

Condition Details

Field	UL Comments		
Superstructure	6.00	6.00	6.0
Wearing Surface	6.00	6.00	6.0
Deck Condition	6.00	6.00	6.0
Expansion Joints	6.00	6.00	6.0
Railings	6.00	6.00	6.0
Substructure	6.00	6.00	6.0
Coating	8.00	8.00	6.0
Streams/Waterways	6.00	6.00	6.0

Asset Inspection Report

Inspection Summary

Batch No: 2004_B
 Asset ID: 43213B KEMPTVILLE CREEK BRIDGE
 Date: 11/09/2004 Contact: Luc Monette Phone: 613-828-4445
 Summary
 Condition: 40.00
 Total Needs: 11,000.00
 Approved By: Consultant

Asset Identification

County Rd: CO RD 43 Year Built: 1955 Road ID: 043222
 Name: KEMPTVILLE CREEK BRIDGE
 Location: 1.1 km E of CO.RD.#44
 Roadside Environment: S
 Municipal Number:
 &Name: KEMPTVILLE CREEK BRIDGE
 &Location: KEMPTVILLE CREEK BRIDGE
 Asset Class: Bridge
 Material: C - Cast in Place
 Subtype: RF - Rigid Frame, Vert. Legs
 Adjacent Bridge No:
 Articulation: C - Continuous
 Crss Typ: O-WAT, Over water
 Deck Type: CC - Concrete, Cast in Place
 Foundation Type: SF - Spread footings
 Deck Area: 488 (m2)
 Deck Length: 39 (m)
 Deck Width: 12.5 (m)
 Lanes: 2 (ea)
 Dgn Deck Width: 0 (m)
 Dgn Dck Length: 0 (m)
 Trav Deck Wdth: 9.7 (m)
 Wearing Surf.: 0 (m)
 Owner Agency: LAG
 Shared?: No

Condition Assessment

Enter values manually

Condition: 40.00
 Improvement:
 Impr. %: 100.00
 Impr. Cost: 0.00
 Other Needs: 11,000.00
 Total Needs: 11,000.00
 Upper Limit: 0.0

Condition Details

Field		UL Comments
Conventional closed	0.00	0.0 A few isolated spalls, concrete repairs and honey combing.
Reinforced concrete wingwall	0.00	0.0 Severe scaling and a few spalls noted. light to moderated s
Concrete rectangular columns /shaft	0.00	0.0 Poor: A few spalls isolated spalls and some severe scaling.
Steel Flex Beam on wood post barrier	0.00	0.0 Generally in good condition.
Soffit - Thick Slab	0.00	0.0 A fes isolated spalls, several concrete repairs, areas of sc
Sidewalks and Medians	0.00	0.0 Several transverse cracks, a few small spalls and uneven sur
Streams and Waterways	0.00	0.0 No visible flow obstruction.
Embankments	0.00	0.0 Generally in good condition.
Signs	0.00	0.0 Generally in good condition.
Wearing Surface	0.00	0.0 Light ravelling at edges of pavement.

Asset Inspection Report

Inspection Summary

Batch No: BR2008
 Asset ID: 43213B KEMPTVILLE CREEK BRIDGE
 Date: 25/10/2008 Contact: Matt Thom
 Summary
 Condition: 40.00
 Total Needs: 11,000.00
 Approved By: Consultant

Phone:

Asset Identification

County Rd: CO RD 43
 Name: KEMPTVILLE CREEK BRIDGE
 Location: 1.1 km E of CO.RD.#44
 Roadside Environment: S
 Municipal Number:
 &Name: KEMPTVILLE CREEK BRIDGE
 &Location: KEMPTVILLE CREEK BRIDGE
 Asset Class: Bridge
 Material: C - Cast in Place
 Subtype: RF - Rigid Frame, Vert. Legs
 Adjacent Bridge No:
 Articulation: C - Continuous
 Crss Typ: O-WAT, Over water
 Deck Type: CC - Concrete, Cast in Place
 Foundation Type: SF - Spread footings
 Deck Area: 488 (m2)
 Deck Length: 39 (m)
 Deck Width: 12.5 (m)
 Lanes: 2 (ea)
 Dgn Deck Width: 0 (m)
 Dgn Dck Length: 0 (m)
 Trav Deck Wdth: 9.7 (m)
 Wearing Surf.: 0 (m)
 Owner Agency: LAG
 Shared?: No

Year Built: 1955 Road ID: 043222

Condition Assessment

Enter values manually

Condition: 40.00
 Improvement:
 Impr. %: 100.00
 Impr. Cost: 0.00
 Other Needs: 11,000.00
 Total Needs: 11,000.00

Upper Limit: 0.0

Condition Details

Field		UL Comments
Foundation (below grade leve)-Other	0.00	4.0 No visible evidence of instability. Concrete deterioration
Wearing Surface	0.00	4.0 Longitudinal and transverse cracks. Large crack in asphalt
Metal drain pipes drainage	0.00	4.0 moderate corrosion to bottoms of drain pipes. Top of drains
Parapet Wall with single railing	0.00	4.0 Moderate scaling and a few small spalls.
Single hand railing	0.00	4.0 Single pipe hand railing generally in good condition.
Conventional closed	0.00	4.0 A few isolated spalls, concrete repairs and honey combing.
Reinforced concrete wingwall	0.00	4.0 Severe scaling and a few spalls noted. light to moderated s
Concrete rectangular columns /shaft	0.00	4.0 Poor: A few spalls isolated spalls and some severe scaling.
Steel Flex Beam on wood post barrier	0.00	4.0 Generally in good condition.
Soffit - Thick Slab	0.00	4.0 A fes isolated spalls, several concrete repairs, areas of sc

Asset Inspection Report

Sidewalks and Medians	0.00	4.0 Several transverse cracks, a few small spalls and uneven sur
Streams and Waterways	0.00	4.0 No visible flow obstruction.
Embankments	0.00	4.0 Generally in good condition.
Signs	0.00	4.0 Generally in good condition.
Wearing Surface	0.00	4.0 slight transverse cracks, light ravelling at edge of pavemen
Curb/Gutters	0.00	4.0 Moderate scaling.
Sidewalk	0.00	4.0 Pothole noted at structure on east approach. Patch pothole

Other Needs

Improvement	Description	Year	Percent	Override?	Cost
7	Repair concrete (Top of Deck)	2,009	0.00	<input checked="" type="checkbox"/> 1	3,000.00
7	Repair concrete (side walk)	2,009	0.00	<input checked="" type="checkbox"/> 1	1,000.00
7	Repair concrete(wing walls)	2,009	0.00	<input checked="" type="checkbox"/> 1	2,000.00
007	Deack and Approaches- Rout and Seal	2,009	0.00	<input checked="" type="checkbox"/> 1	5,000.00

<<Element ID>>	Description	Location	Perf Def	Mtce Need	TON	Asset ID	Description
1001-7	Concrete rectangular columns /shaft	Below Deck (at Pier)	00	08	1-5 years	43213B	KEMPTVILLE CREEK BRIDGE
1001-7	Concrete rectangular columns /shaft	Below Deck (at Pier)	00	08	1-5 years	43213B	KEMPTVILLE CREEK BRIDGE
101	Wearing Surface	Top of Deck	09	15	1-5 years	43213B	KEMPTVILLE CREEK BRIDGE
101	Wearing Surface	Top of Deck	09	15	1-5 years	43213B	KEMPTVILLE CREEK BRIDGE
104	Soffit - Thick Slab	Underside of Deck	00	08	1-5 years	43213B	KEMPTVILLE CREEK BRIDGE
104	Soffit - Thick Slab	Underside of Deck	00	08	1-5 years	43213B	KEMPTVILLE CREEK BRIDGE
106-4	Metal drain pipes drainage	N/S Edges of Deck	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
106-4	Metal drain pipes drainage	N/S Edges of Deck	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1102-18	Steel Flex Beam on wood post barrier	N/S Edges of Deck	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1102-18	Steel Flex Beam on wood post barrier	N/S Edges of Deck	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1301-99	Foundation (below grade level)-Other	EW Approaches	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1301-99	Foundation (below grade level)-Other	EW Approaches	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1301-99	Foundation (below grade level)-Other	Below Ground Level	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1401	Streams and Waterways	Below Ground Level	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1401	Streams and Waterways	Below Ground Level	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1401	Streams and Waterways	N/S of Structure	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1401	Streams and Waterways	N/S of Structure	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1402	Embankments	EW Abutments	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1402	Embankments	EW Abutments	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1402	Embankments	EW Abutments	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1501	Signs	EW Approaches	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1501	Signs	EW Approaches	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1501	Signs	E Approaches	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1601	Wearing Surface	EW Approaches	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1601	Wearing Surface	EW Approaches	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1601	Wearing Surface	EW Approaches	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1604	Curb/Gutters	N Edges of EW Approach	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1604	Curb/Gutters	N Edges of EW Approach	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1604	Curb/Gutters	N Edges of EW Approach	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
1605	Sidewalk	S Edges of EW Approach	00	17	1-5 years	43213B	KEMPTVILLE CREEK BRIDGE
1605	Sidewalk	S Edges of EW Approach	00	17	1-5 years	43213B	KEMPTVILLE CREEK BRIDGE
301	Sidewalks and Medians	S Edges of Deck	00	08	1-5 years	43213B	KEMPTVILLE CREEK BRIDGE
301	Sidewalks and Medians	S Edges of Deck	00	08	1-5 years	43213B	KEMPTVILLE CREEK BRIDGE
301	Sidewalks and Medians	S Edge of Deck	00	08	1-5 years	43213B	KEMPTVILLE CREEK BRIDGE

Date: 29/05/2009

Time: 8:33 AM

OSIM Element Inspections

<Element ID>	Description	Location	Part Def	Misc Need	TQN	Asset ID	Description
401-2	Parapet Wall with single railing	N/S Edges of Deck	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
401-2	Parapet Wall with single railing	N/S Edges of Deck	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
404-3	Single hand railing	N/S Edges of Deck	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
404-3	Single hand railing	N/S Edges of Deck	00	00	None	43213B	KEMPTVILLE CREEK BRIDGE
901-1	Conventional closed	EW/ Abutments	00	08	1-5 years	43213B	KEMPTVILLE CREEK BRIDGE
901-1	Conventional closed	EW/ Abutments	00	08	1-5 years	43213B	KEMPTVILLE CREEK BRIDGE
903-6	Reinforced concrete wingwall	EW/ Abutments	00	08	1-5 years	43213B	KEMPTVILLE CREEK BRIDGE
903-6	Reinforced concrete wingwall	EW/ Abutments	00	08	1-5 years	43213B	KEMPTVILLE CREEK BRIDGE

Kemptonville Creek Bridge Asset ID # 43213B

Element	Description	Location	Material	TON	Quantity	Exc.	Good	Fair	Poor	Perf Def	Mtce Need
1301-99	Foundation (below grade level)-Other	Below Ground Level	15	None	0	0	0	0	0	0	0
101	Wearing Surface	Top of Deck	2	1-5 years	429	0	380	0	49	9	15
106-4	Metal drain pipes drainage	N/S Edges of Deck	14	None	4	0	4	0	0	0	0
401-2	Parapet Wall with single railing	N/S Edges of Deck	12	None	123.2	0	110	12.2	0	0	0
404-3	Single hand railing	N/S Edges of Deck	14	None	112	0	112	0	0	0	0
901-1	Conventional closed	EW Abutments	4	1-5 years	55	0	8.25	44	2.75	0	8
903-6	Reinforced concrete wingwall	EW Abutments	4	1-5 years	51	0	12.75	35.7	2.55	0	8
1001-7	Concrete rectangular columns /shaft	Below Deck (at Pier)	4	1-5 years	55	0	15	40	0.5	0	8
1102-18	Steel Flex Beam on wood post barrier	EW Approaches	14	None	120	0	120	0	0	0	0
104	Soffit - Thick Slab	Underside of Deck	4	1-5 years	341.2	0	51.2	273	17	0	8
301	Sidewalks and Medians	S Edge of Deck	4	1-5 years	66.3	0	59	6	1.3	0	8
1401	Streams and Waterways	N/S of Structure	22	None	1	0	1	0	0	0	0
1402	Embankments	EW Abutments	22	None	1	0	1	0	0	0	0
1501	Signs	E Approaches		None	1	0	1	0	0	0	0
1601	Wearing Surface	EW Approaches	2	None	582	0	541.45	28.05	12.5	0	0
1604	Curb/Gutters	N Edges of EW Approaches	4	None	24	0	21.6	2.4	0	0	0
1605	Sidewalk	S Edges of EW Approaches	2	1-5 years	34	0	33.5	0	0.5	0	17

Kemptonville Creek Bridge Asset ID # 43213B

Improvement	Description	Type	Percent	Cost
7	Repair concrete (Top of Deck)	Rehab	0	3,000.00
7	Repair concrete (side walk)	Rehab	0	1,000.00
7	Repair concrete(wing walls)	Rehab	0	2,000.00
7	Deack and Approaches- Rout and Seal	Rehab	0	5,000.00