

**BUTLER COUNTY BRIDGE MANAGEMENT SYSTEM
BRIDGE INSPECTION RECORD**

County Bridge Name:
HAMILTON NEW LONDON ROAD - 5.029

Photo 1



ELEVATION LOOKING WEST.

Photo 2



ENDVIEW LOOKING NORTH.

Structure File Number:	0932183	Inspected By:	ANN M. GRIESSMANN
General Appraisal Operating Status:	3 P	Inspection Date:	0 4 / 1 1 / 0 5
Sufficiency Rating:	33	Township:	ROSS
Inspection No:	2005		

STRUCTURE INFO

NO. OF SPANS:	2	O.A. LENGTH:	158 FT.	DECK WIDTH:	20.5 FT.
YEAR BUILT / REHAB:	5283				
STRUCTURE TYPE:	STEEL PONY TRUSS WITH METAL DECK ON WALL TYPE ABUTMENTS AND PIER				

INSPECTION FINDINGS

DECK COMMENT:	SURFACE CORROSION & SECTION LOSS OF GUARDRAIL. TRANSVERSE CRACKS AND MAP CRACKING IN WEARING SURFACE. SURFACE CORROSION OF METAL DECK. EXPANSION JOINTS CLOSED AND BENT DOWNWARD.
SUPERSTRUCTURE COMMENT:	SURFACE CORROSION OF FLOOR SYSTEM. NORTHEAST TRUSS BEARING AGAINST BACKWALL. 100% SECTION LOSS TO STRINGER WEB AT N END.
SUBSTRUCTURE COMMENT:	LARGE AREA OF MISSING STONES AT SW CORNER OF S ABUTMENT. SPALL OF ABUTMENT SEAT AT SW & NW TRUSS BEARINGS. SMALL SPALL OF PIER SEAT AT UPSTREAM TRUSS BEARING.
CULVERT COMMENT:	
SCOUR COMMENT:	SCOUR HOLE AT PIER.
CHANNEL COMMENT:	HEAVY BEND IN CHANNEL UPSTREAM. LARGE AMOUNT OF DEBRIS AT PIER.
APPROACH COMMENT:	MODERATE CRACKING IN WEARING SURFACE AT ABUTMENTS. POOR GUARDRAIL TRANSITION TO BRIDGE AT NORTHEAST APPROACH.

RECOMMENDED MAINTENANCE

COMPONENT	PRIORITY	DESCRIPTION
CONCRETE	S	REPLACE STONES AT SOUTH ABUTMENT. REPAIR SPALLS AT BEARING SEAT AREAS OF BOTH ABUTMENTS AND PIER.
STEEL	S	PAINT STEEL. REPAIR STRINGER ENDS.
GUARDRAIL	M	REPLACE GUARDRAIL AND GRIND WELDS SMOOTH. BOLT GUARDRAIL TO TRUSS. REPLACE GUARDRAIL TRANSITION CONNECTIONS TO BRIDGE.
PAVEMENT	M	SEAL CRACKS IN WEARING SURFACE.
EMBANKMENT		
CHANNEL	I	REMOVE DEBRIS AT PIER. PLACE RIP RAP AROUND PIER.
EROSION		

0932183

STRUCTURE FILE NUMBER

BRIDGE NUMBER BUT C0030 0503 ROSS YEAR BUILT 5283
 CO ROUTE UNIT VILLAGE/TOWN

DIST. 8 BRIDGE TYPE Steel Truss Deck TYPE SERVICE 115 INDIAN CREEK BUTLER

DECK SURFACE CORROSION OF METAL DECK.		2	2. WEARING SURFACE TRANSVERSE CRACKS AND MAP CRACKING IN WEARING SURFACE.		2
1. FLOOR			4. MEDIAN		
3. CURBS, SIDEWALKS, WALKWAY			6. DRAINAGE		1
5. RAILING SURFACE CORROSION & SECTION LOSS OF GUARDRAIL. GUARDRAIL WELDED TO TRUSS.		3	8. SUMMARY SURFACE CORROSION & SECTION LOSS OF GUARDRAIL. TRANSVERSE CRACKS AND MAP CRACKING IN WEARING SURFACE. SURFACE CORROSION OF METAL DECK. EXPANSION		6
7. EXPANSION JOINTS PAVED OVER. CLOSED & BENT DOWNWARD AT SOUTH ABUTMENT.		4	10. BEAMS/GIRDERS/SLAB		
SUPERSTRUCTURE			12. JOISTS/STRINGERS SURFACE CORROSION OF STRINGERS. LAMCORR TO BOTTOM FLANGES AT ABUTMENTS. 100% SECTION LOSS TO STRINGER WEB AT N END.		3
9. ALIGNMENT		1	14. FLOOR BEAM CONNECTIONS		2
11. DIAPHRAGMS or CROSSFRAMES			16. DIAGONALS		2
13. FLOOR BEAMS SURFACE CORROSION OF FLOOR BEAMS		2	18. TOP CHORD		2
15. VERTICALS SEVERE COLLISION DAMAGE OF VERTICAL IN SOUTH TRUSS, DOWNSTREAM FACE - DUMMY MEMBER (FEB. 2003).		2	20. LOWER LATERAL BRACING		2
17. END POSTS		2	22. SWAY BRACING		
19. LOWER CHORD		2	24. BEARING DEVICES NORTHEAST TRUSS BEARING AGAINST BACKWALL.		2
21. TOP LATERAL BRACING			26. ARCH COLUMNS or HANGERS		
23. PORTAL			28. PCS		0
25. ARCH			30. FATIGUE PRONE CONNECTIONS		2
27. SPANDREL WALLS			32. SUMMARY SURFACE CORROSION OF FLOOR SYSTEM. NORTHEAST TRUSS BEARING AGAINST BACKWALL. 100% SECTION LOSS TO STRINGER WEB AT N END.		4
29. PINS/HANGERS/HINGES			34. ABUTMENT SEATS SPALL OF ABUTMENT SEAT AT SOUTHWEST TRUSS BEARING.		3
31. LIVE LOAD RESPONSE		S	36. PIER SEATS SMALL SPALL OF PIER SEAT AT UPSTREAM TRUSS BEARING.		2
SUBSTRUCTURE LARGE AREA OF MISSING STONES AT SOUTHWEST CORNER OF SOUTH ABUTMENT. SPALLED CONCRETE UNDER NW TRUSS BEARING.		3	38. WINGWALLS		2
33. ABUTMENTS			40. SCOUR SCOUR HOLE AT PIER.		2
35. PIERS		2	42. SUMMARY LARGE AREA OF MISSING STONES AT SW CORNER OF S ABUTMENT. SPALL OF ABUTMENT SEAT AT SW & NW TRUSS BEARINGS. SMALL SPALL OF PIER SEAT AT UPSTREAM TRUSS		3
37. BACKWALLS		2	44. ALIGNMENT		
39. FENDERS and DOLPHINS			46. SEAMS		
41. SLOPE PROTECTION			48. SCOUR		
CULVERT			50. SUMMARY		
43. GENERAL			52. PROTECTION		
45. SHAPE			54. SUMMARY HEAVY BEND IN CHANNEL UPSTREAM. LARGE AMOUNT OF DEBRIS AT PIER.		6
47. HEADWALLS or ENDWALLS			56. APPROACH SLABS LONGITUDINAL CRACKS IN SLAB.		2
49.			58. RELIEF JOINTS		1
CHANNEL HEAVY BEND IN CHANNEL UPSTREAM.		2	60. SUMMARY MODERATE CRACKING IN WEARING SURFACE AT ABUTMENTS. POOR GUARDRAIL TRANSITION TO BRIDGE AT NORTHEAST APPROACH.		6
51. ALIGNMENT			62. WARNING SIGNS 20 TONS, NARROW BRIDGE		1
53. WATERWAY ADEQUACY LARGE AMOUNT OF DEBRIS AT PIER.		1	64. UTILITIES		
APPROACHES			66. GENERAL APPRAISAL and OPERATIONAL STATUS		3
55. PAVEMENT MODERATE CRACKING IN WEARING SURFACE AT ABUTMENTS.		2	P		
57. GUARDRAIL POOR GUARDRAIL TRANSITION TO BRIDGE AT NORTHEAST APPROACH.		3			
59. EMBANKMENT MINOR EROSION AT NW WINGWALL.		2			
GENERAL					
61. NAVIGATION LIGHTS					
63. SIGN SUPPORTS					
65. VERTICAL CLEARANCE		N			

67. INSPECTED BY

ANN M. GRIESSMANN
 PE# 68177
 BURGESS & NIPLÉ, INC.

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 PE INITIALS

68. REVIEWED BY

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 PE INITIALS

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69 SURVEY



BURGESS & NIPLÉ