

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

County Bridge Name:
LAYHIGH ROAD - 6.954

Photo 1



ELEVATION LOOKING EAST.

Photo 2



ENDVIEW LOOKING SOUTH.

Structure File Number: 0932671
General Appraisal Operating Status: 4 A
Sufficiency Rating: 45.9
Inspection No: 2005

Inspected By: BRIAN D. DIETRICH
Inspection Date: 04 / 11 / 05
Township: ROSS

STRUCTURE INFO

NO. OF SPANS: 1 O.A. LENGTH: 61 FT. DECK WIDTH: 24 FT.
YEAR BUILT / REHAB: 1962
STRUCTURE TYPE: STEEL PONY TRUSS WITH METAL DECK AND CONCRETE WALL TYPE ABUTMENTS

INSPECTION FINDINGS

DECK COMMENT: SURFACE CORROSION & SECTION LOSS OF METAL DECK. TRANSVERSE CRACKS IN WEARING SURFACE.
SUPERSTRUCTURE COMMENT: HEAVY LAMINATING CORROSION OF FLOOR BEAMS AND STRINGERS. PACK RUST AND BOWING OF FLOOR BEAM CONNECTIONS. S TRUSS BEARINGS TIGHT AGAINST BACKWALL.
SUBSTRUCTURE COMMENT: DELAM AND SPALLING OF S ABUTMENT BACKWALL AT SW TRUSS BEARING. BACKWALL CRACKED AT SW TRUSS BEARING. SPALLING OF BACKWALL AT N ABUTMENT.
CULVERT COMMENT:
SCOUR COMMENT: BOTTOM OF FOOTER EXPOSED AT SW CORNER OF SOUTH ABUTMENT.
CHANNEL COMMENT: CHANNEL FLOWS INTO SOUTH ABUTMENT.
APPROACH COMMENT: TRANSVERSE CRACKS IN WEARING SURFACE AT ABUTMENTS.

RECOMMENDED MAINTENANCE

COMPONENT	PRIORITY	DESCRIPTION
CONCRETE	S	REPAIR BACKWALLS; REPAIR ABUTMENT SEAT AT SOUTHWEST TRUSS BEARING.
STEEL	L	REPLACE FLOOR SYSTEM. MONITOR INTERIOR FLOORBEAM CONNECTIONS IN MEANTIME.
GUARDRAIL		
PAVEMENT	L	REPLACE METAL DECK. SEAL CRACKS IN WEARING SURFACE IN MEANTIME.
EMBANKMENT		
CHANNEL	I	PLACE RIP RAP ALONG SOUTH ABUTMENT.
EROSION		

0932671

SRUCTURE FILE NUMBER

BRIDGE NUMBER **BUT** **C0042** **0695** **ROSS** YEAR BUILT **1962**
CO ROUTE UNIT VILLAGE/TOWN

DIST. **8** BRIDGE TYPE **Steel Truss Deck** TYPE SERVICE **115** **DRY RUN** **BUTLER**

DECK SURFACE CORROSION & SECTION LOSS OF METAL DECK.		3	TRANSVERSE CRACKS IN WEARING SURFACE.		2
1. FLOOR			2. WEARING SURFACE		
3. CURBS, SIDEWALKS, WALKWAY			4. MEDIAN		
5. RAILING		2	6. DRAINAGE		3
7. EXPANSION JOINTS PAVED OVER. HEAVY LEAKAGE ONTO STRINGER ENDS.		2	8. SUMMARY SURFACE CORROSION & SECTION LOSS OF METAL DECK. TRANSVERSE CRACKS IN WEARING SURFACE.		5
SUPERSTRUCTURE					
9. ALIGNMENT		1	10. BEAMS/GIRDERS/SLAB		
11. DIAPHRAGMS or CROSSFRAMES			12. JOISTS/STRINGERS LAMINATING CORROSION OF STRINGERS - WORSE AT ABUTMENTS.		3
13. FLOOR BEAMS LAMINATING CORROSION OF FLOOR BEAMS.		3	14. FLOOR BEAM CONNECTIONS PACK RUST IS BOWING INTERIOR GUSSET PLATES UP TO 1".		3
15. VERTICALS MINOR SURFACE CORROSION OF VERTICALS.		2	16. DIAGONALS MINOR SURFACE CORROSION OF DIAGONALS.		2
17. END POSTS MINOR SURFACE CORROSION OF END POSTS.		2	18. TOP CHORD MINOR SURFACE CORROSION OF TOP CHORD		2
19. LOWER CHORD MINOR SURFACE CORROSION OF LOWER CHORD.		2	20. LOWER LATERAL BRACING		2
21. TOP LATERAL BRACING			22. SWAY BRACING		
23. PORTAL			24. BEARING DEVICES SOUTH TRUSS BEARINGS TIGHT AGAINST BACKWALL. LAMINATING CORROSION OF STRINGER BEARINGS.		4
25. ARCH			26. ARCH COLUMNS or HANGERS		
27. SPANDREL WALLS			28. PCS		0
29. PINS/HANGERS/HINGES			30. FATIGUE PRONE CONNECTIONS		1
31. LIVE LOAD RESPONSE		S	32. SUMMARY HEAVY LAMINATING CORROSION OF FLOOR BEAMS AND STRINGERS. PACK RUST AND BOWING OF FLOOR BEAM CONNECTIONS. S TRUSS BEARINGS TIGHT AGAINST BACKWALL.		4
SUBSTRUCTURE					
33. ABUTMENTS		2	34. ABUTMENT SEATS DELAM AND SPALLING OF SOUTH ABUTMENT SEAT AT SOUTHWEST TRUSS BEARING.		3
35. PIERS			36. PIER SEATS		
37. BACKWALLS BACKWALL CRACKED AT SOUTHWEST TRUSS BEARING. SPALLING OF BACKWALL AT NORTH ABUTMENT.		3	38. WINGWALLS		2
39. FENDERS and DOLPHINS			40. SCOUR BOTTOM OF FOOTER EXPOSED AT SW CORNER OF SOUTH ABUTMENT.		2 4
41. SLOPE PROTECTION			42. SUMMARY DELAM AND SPALLING OF S ABUTMENT BACKWALL AT SW TRUSS BEARING. BACKWALL CRACKED AT SW TRUSS BEARING. SPALLING OF BACKWALL AT N ABUTMENT.		4
CULVERT					
43. GENERAL			44. ALIGNMENT		
45. SHAPE			46. SEAMS		
47. HEADWALLS or ENDWALLS			48. SCOUR		
49.			50. SUMMARY		
CHANNEL CHANNEL FLOWS INTO SOUTH ABUTMENT.					
51. ALIGNMENT		3	52. PROTECTION		
53. WATERWAY ADEQUACY		1	54. SUMMARY CHANNEL FLOWS INTO SOUTH ABUTMENT.		5
APPROACHES TRANSVERSE CRACKS IN WEARING SURFACE AT ABUTMENTS.					
55. PAVEMENT		2	56. APPROACH SLABS		
57. GUARDRAIL		2	58. RELIEF JOINTS		
59. EMBANKMENT		2	60. SUMMARY TRANSVERSE CRACKS IN WEARING SURFACE AT ABUTMENTS.		6
GENERAL					
61. NAVIGATION LIGHTS			62. WARNING SIGNS 20 TONS - POSTING REMOVED BY BCEO IN 2004.		1
63. SIGN SUPPORTS			64. UTILITIES		
65. VERTICAL CLEARANCE		N	66. GENERAL APPRAISAL and OPERATIONAL STATUS		4 A

67. INSPECTED BY

BRIAN D. DIETRICH
 PE# 65481
 BURGESS & NIPLÉ, INC.

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 INITIALS

68. REVIEWED BY

PE#

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 INITIALS

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69 SURVEY

DATE

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BURGESS & NIPLÉ