



Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

September 24, 2019
8:52:59am

COUNTY : BUTLER BRIDGE : S0524 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 7/22/2019 SUBMITTAL YEAR : 2019

| GENERAL STRUCTURE INFORMATION | | | ROUTE DESIGNATION INFORMATION | | |
|--------------------------------|-------------------------|---------------------------|---------------------------------|-----------------------------|---------------------------|
| 1 | State | MISSOURI | 5A | Record Type | ROUTE CARRIED 'ON' STRUCT |
| 2 | District | SE | 5B | Route Signing Prefix | MO |
| 3 | County | BUTLER | 5C | Designated Level of Service | MAINLINE |
| 8 | Federal ID No. | 8745 | 5D | Route Number | 00142 |
| 27 | Year Built | 1932 | 5E | Directional Suffix | NOT APPLICABLE |
| 106 | Year Reconstructed | 0 | 7 | Facility Carried | MO 142 E |
| 42A | Type of Service On | HIGHWAY | 12 | Base Hwy. Network | NO |
| 21 | Structure Maintenance | STATE HIGHWAY AGENCY | 13A | LRS Inventory Route No. | |
| 22 | Structure Owner | STATE HIGHWAY AGENCY | 13B | Subroute No. | |
| 33 | Br. Median Code | NO MEDIAN | 20 | Toll Status | ON FREE ROAD |
| 37 | Historical Significance | NOT ELIGIBLE FOR NR OF HP | 26 | Functional Classification | 06-RURAL MINOR ARTERIAL |
| 101 | Parallel Struc Desg | NONE EXISTS | 28A | Lanes on Structure | 01 |
| 103 | Temporary Structure | NOT TEMPORARY | 100 | STRAHNET Designation | RTE NOT A DEFENSE HWY |
| 112 | NBIS Bridge Length | YES | 104 | National Highway System | NOT ON NHS |
| | | | 105 | Federal Lands Highway | NOT APPLICABLE |
| | | | 110 | Designated Nat. Network | NO |
| STRUCTURE LOCATION INFORMATION | | | STRUCTURE TRAFFIC INFORMATION | | |
| 4 | Place | NEELY | 29 | AADT | 385 |
| | Code | 51392 | 30 | AADT Year | 2018 |
| 9 | Location | S 13 T 22 N R 5 E | 102 | Direction of Traffic | ONE LANE BRIDGE FOR 2-WAY |
| 11 | Milepoint | 106.79 miles | 109 | AADT Truck Percent | 13% |
| 16 | Latitude | 36 D 33 M 40 S | 114 | Future AADT | 616 |
| 17 | Longitude | 90 D 27 M 60 S | 115 | Future AADT Year | 2038 |
| UNDERRECORD INFORMATION | | | STRUCTURE GEOMETRIC INFORMATION | | |
| 6 | Features Intersected | CANE CR | 10 | Inventory Rte. Vert. Clear | 99 Ft. 99 In. |
| 42B | Type of Service Under | WATERWAY | 19 | By pass Detour Length | 26.25 miles |
| 28B | Lanes Under Structure | 00 | 32 | Approach Roadway Width | 20 Ft. 0 In. |
| 54A | Vert. Clearance Ref. | N/A | 34 | Skew | 0.00 Degrees |
| 54B | Vert. Clearance | 0 Ft. 0 In. | 35 | Struct. Flared | NO |
| 55A | Rt. Lat Clear Ref. | N/A | 47 | Total Horiz. Clear | 20 Ft. 0 In. |
| 55B | Rt. Lat Clearance | 0 Ft. 0 In. | 48 | Maximum Span Length | 43 Ft. 12 In. |
| 56 | Left Lat Clearance | 0 Ft. 0 In. | 49 | Structure Length | 118 Ft. 1 In. |
| 38 | Navigation Control | PERMIT NOT REQ | 50A | Left Curb/Sidewalk Width | 0 Ft. 0 In. |
| 39 | Nav Vertical Clear | 0 Ft. 0 In. | 50B | Right Curb/Sidewalk Width | 0 Ft. 0 In. |
| 40 | Nav Horizontal Clear | 0 Ft. 0 In. | 51 | Curb to Curb Br. Width | 20 Ft. 0 In. |
| 111 | Nav. Pier Protection | | 52 | Deck Width (Out-Out) | 20 Ft. 12 In. |
| 116 | Nav. Cl. Vert. Clear | | 53 | Vert. Clearance Over Deck | 99 Ft. 99 In. |

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| LOAD RATING AND POSTING INFORMATION | | | | MATERIAL/CONSTRUCTION INFORMATION | | | | |
|--|-----------------------------|---------------------------|---------|--|--|--------------------------|-----------|------|
| 31 | Design Load | H 10 | | 43A | Main Struc. Mat type | STEEL | | |
| 41 | Structure Status | POSTED FOR LOAD | | 43B | Main struc Constr. Type | STRINGER/MULTIBEAM - GRD | | |
| 63 | Oper. Rating Meth. | LOAD FACTOR | | 45 | # of Main Spans | 3 | | |
| 64 | Operating Rating | 23 Tons. | | 44A | Appr Struc. Mat type | 000 | | |
| 65 | Inventory Rating Meth | LOAD FACTOR | | 44B | Appr Struc. Cnstr. type | 000 | | |
| 66 | Inventory Rating | 14 Tons. | | 46 | # of Approach Span | 0 | | |
| 70 | Bridge Posting Code | 30.0-39.9% BELOW | | 107 | Deck Mat/Constr. | 1 CONCRETE CIP | | |
| PROPOSED IMPROVEMENT INFORMATION | | | | 108A | Wear Surf Mat/Constr. | 6 BITUMINOUS | | |
| | Sufficiency Rating | 47.6 | Percent | 108B | Membrane Mat/Constr. | 0 NONE | | |
| | Deficiency Rating | STRUCTURAL | | 108C | Deck Protect Mat/Constr. | 0 NONE | | |
| | Funding Eligibility | FULL | | CONDITION RATING INFORMATION | | | | |
| 75A | Proposed Work | REPLACEMENT SUBSTND LOAD | | 58 | Deck Cond. Rating | 3 | | |
| 75B | Work Done By | Contract | | 59 | Superstructure Cond. Rating | 5 | | |
| 76 | New Struc Length | 147 Ft. 8 In. | | 60 | Substructure Cond. Rating | 5 | | |
| 94 | Struc Improve Cost | \$ 514,000 | | 61 | Channel /Channel Protection Cond. Rating | 4 | | |
| 95 | Roadway Improve Cost | \$ 51,000 | | 62 | Culvert Cond. Rating | N | | |
| 96 | Total Project Cost | \$ 772,000 | | INSPECTION INFORMATION | | | | |
| 97 | Year of Cost Estimates | 2019 | | 90 | Gen. Insp Date | 2 / 19 | | |
| APPRAISAL RATING INFORMATION | | | | 91 | Gen. Insp. Frequency | 12 | Months | |
| 36A | Br. Rail App. Rating | DOES NOT MEET ACCEPT STND | | 92A | Frac. Critical Inspection | N | Months | |
| 36B | Transition Rail App. Rating | DOES NOT MEET ACCEPT STND | | 93A | Frac. Critical Insp. Date | | | |
| 36C | Approach Rail App. Rating | DOES NOT MEET ACCEPT STND | | 92B | Underwater Inspection | Y | Months 60 | |
| 36D | Rail End Treat. App. Rating | DOES NOT MEET ACCEPT STND | | 93B | Underwater Insp. Date | 6 / 19 | | |
| 67 | Struc Eval App. Rating | 4 | | 92C | Special Inspection | N | Months | |
| 68 | Deck Geometry App. Rating | 4 | | 93C | Special Inspection Date | | | |
| 69 | Underclearance App. Rating | N | | BORDER BRIDGE INFORMATION | | | | |
| 71 | Waterway Adeq. App. Rating | 6 | | 98 | Neighboring State Code | | | |
| 72 | Approach Road App. Rating | 8 | | 98B | Neighboring State % Respon | | | |
| 113 | Scour Assess App. Rating | 8 | | 99 | Neighboring State Struc. No. | | | |
| APPROVED POSTING INFORMATION | | | | FIELD POSTING INFORMATION | | | | |
| Approved Posting Category | | S-5 | | Field Posting Category | | S-5 | | |
| | | Ton1 | Ton2 | Ton3 | | Ton1 | Ton2 | Ton3 |
| Tonnage Values for Posting Sign | | 15 | | Tonnage Values for Posting Sign | | 15 | | |
| General Text for Posting Sign | | | | General Text for Posting Sign | | | | |
| CENTERLINE OF BRIDGE AND TRUCKS OVER 15 TONS 15 MPH ON BRIDGE. | | | | CENTERLINE OF BRIDGE AND TRUCKS OVER 15 TONS 15 MPH ON BRIDGE. | | | | |

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