

(203) Bridge (Dedicated) Name:

Structure File Number: 2517302

Sufficiency Rating: 077.0 Deficiency Rating:

BRIDGE INVENTORY AND APPRAISAL

Inventory Bridge Number: FRA 00674 02480

LITTLE WALNUT CREEK

Report Date: 6/12/2024

Bridge Status: Active

(2) District: 06	(3) County: 25-FRANKLIN	(9) Location: .4 Mi North Of Lithopolis	(7) Facility Carried: Sr-674
(4) FIPS Code: None	Owner:	(208) Route On Bridge: State (Odot) (Toll Free)	(207) Route Under Bridge: Non Highway Traffic On Bridge (I.E.
(102) Direction of Traffic: 2 - 2-Way Traffic	(103) Temporary Structure:	(110) Designated National Network: Not National Network	(101) Parallel: N
		(42A) Type Serv: (On): Highway	(42B) Type Serv (Under): Waterway

INVENTORY ROUTE DATA

(5A) Route On/Under: 1 - 1: Route Carried "On" The Structure
 (5B) Hwy Sys: 3 - State Highway
 (5D) Route No: 00674 (5E) Dir: Not Applic (5C) Des: Mainline
 (6) Feature Int: Little Walnut Creek
 (200) CL: 02480 (201)Spec Des: (209) Interstate Mile:
 (29) Avg. Daily Traffic(ADT): 10,507 (30) ADT Year: 2015
 (235) Truck Traf: 0 (210) Corridor: (104) NHS: structure/route is not on nhs
 (26) Functional Class: urban - minor arterial (100) Strahnt: Not A Strahnet Route

(45) Main Spans Number: 3 (43) Type: Steel Continuous /Stringer/Multi-Beam Or Girder /Not Applicable
 (46) Approach Spans Nbr: 0 (44) Type: Other /Other /Not Applicable
 (307) Total Spans: 3 (48) Max Span: 53.0 Ft (49) Overall Leng: 163.0 Ft

SUBSTRUCTURE

(370A) Record Type: (370B) Hwy Sys:
 (370D) Route No: (370E) Dir: (370C) Des:
 (373) Feature Int:
 (382) CL: 0000 (371) Interstate Mile: (387) Special Desig:
 (379) Avg. Daily Traffic(ADT): 0 (380) ADT Year: 0
 (381) Truck Traf: 0 (384) Corridor: (378) NHS: -
 (375) Functional Class: (386) Strahnt:

Abut-Rear (532) Matl: Concrete And Stone (531) Type: Gravity (533) Fnd: Spread Footing (On Soil)
 Abut-Fwd (527) Matl: Concrete And Stone (526) Type: Gravity (528) Fnd: Spread Footing (On Soil)
 Pier-Pred (535) Matl: Stone (534) Type: Gravity (536) Fnd: Spread Footing (On Soil)
 (663) Stream Velocity: 00000 fps (113) Scour: Scour Within Limits Of Footing Or Piles
 (92B) Underwater Inspection: N Freq: (655) Chan Prot: None
 0
 (93B) Date of last Underwater Insp: (657) Drainage Area: Sq Mi

CLEARANCE UNDER THE BRIDGE

Min. Horiz on Bridge: (335) NC: Ft (47) Card: 32.0 Ft
 (53) Prac Max Vert On Brg: 99.0 Ft
 Min Vrt Clr On Brg: (336) NC: 0.0 Ft (10) Card: 99.0 Ft
 Min Latl Clr: (338) Right NC: Ft (337) Right Card: Ft
 (340) Left NC: Ft (339) Left Card: Ft

Min. Horiz Under Clear: (326) NC: Ft (325) Card: Ft
 (328) Prac Max Vrt Under Clear: Ft
 Min Vert Under Clear: (327) NC: Ft (54) Card: 0.0 Ft
 Min Lat Under Clear: (329) Right NC: Ft (55) Right Card: 0.0 Ft
 (330) Left NC: Ft (56) Left Card: 0.0 Ft

STRUCTURE INFORMATION

(19) Bypass Length: 5.0 Miles
 (16) Latitude: 39 Deg 49 Min 39.83 Sec (17) Longitude: 82 Deg 49 Min 51.34 Sec
 (20) Toll: On Free Road
 (263) Date Built: 7/1/1963 (264) Major Reconstruction Date:
 (28A) No. Lanes On: 2 (28B)No. Lanes Under: 0
 (301) Horiz Curve: (34) Skew: 27 Deg
 (32) App. Rdw Width: 36 Ft (51) Brg. Rdw Width: 32.0 Ft
 (52) Deck Width: 32.0 Ft (424) Deck Area: 5216 Sq. Ft
 (406) Median Type: None /Non Barrier /No Joint
 (33) Bridge Median: No Median
 Sidewalks: (50A) Left 0.0 Ft (50B) Right 0.0 Ft
 Type Curb or Sidewalk:
 (427) Left Matl: None (428) Type: None
 (429) Right Matl: None (430) Type: None
 (35) Flared: 0 (408) Composite: N - Non-Composite

LOAD RATING INFORMATION

(31) Design Load: HS 20
 (64) Opr Rat Fact/Ton: 1.800
 (66) Inv Rat Fact/Ton: 1.100
 (734) Ohio Percent of Legal Load: 150
 (704) Year of Rating: 2015 (708) Rate Soft: Aashto Brr (Virtis)
 (63) Opr Rat Method: Load Factor (Lf) Rating Reported By Rati
 (65) Inv Rat Method: Load Factor (Lf) Rating Reported By Rati
 Load Rater: (705) Omar (706) Abu-Hajar (707) PE#: 57465

APPRAISAL

(71) Waterway Adequacy: 7 Better than present minimum criteria
 (72) Approach Alignment: 7 Better than present minimum criteria
 (67) Calc Str Appraisal: 5 - Somewhat better than minimum adequacy
 (68) Calc Deck Geometry: 4 - Meets minimum tolerable limits
 (69) Calc Underclearance: N - Not Applicable

APPROACH INFORMATION

(401) Approach Guardrail:
 (403) Approach Pavement: (402) Grade:

CULVERT INFORMATION

(575) Culvert Type: Not A Culvert Or Rigid Frame (578) Length: 0.0 Ft
 (580) Depth of Fill: 0.0 Ft (582) Headwalls:

GENERAL INFORMATION

(475) Main Member: Rolled Steel (477) Moment Plate:
 (414) Expansion Joint: Sliding Metal Plate Angle
 (453) Bearing Devices: Sliding (Bronze)

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Sufficiency Rating: 077.0 Deficiency Rating:		LITTLE WALNUT CREEK		Bridge Status: Active
(407) Railing: Deep Beam Railing (Dbr) W Tubular Backup		(38) Navigation: 0	(39) Nav Vert Clr: 0.0 Ft	(40) Nav Horiz Clear: 0.0 Ft
(409) Deck Drainage: Over The Side (Without Drip Strip)		(92C) Spec Insp: N	Freq: 0	(93C) Special Inspection Date:
(107) Deck Type: Concrete Cast-In-Place		(92A) Fracture Critical Insp: N	Freq: 0	(93A) Fracture Critical Feature Inspection Date:
Deck Protection: (108B) External: Na		(474) Main Structure System: Not Applicable (I.E. Culvert, Beam, Slab)		(468) Hinges: Not Applicable (Structures With No Hinge)
(108C) Internal: Na		(487) Structural Steel Memb: A6		(465) Framing: Straight Beams/Girders
(108A) Wearing Surface: Monolithic Concrete (Concurrently Placed)		(482) Paint: Red Lead		(426) Bridge Railing Steel:
(423) Thickness: 1.0 in (422) Date of Wearing Surface: 7/1/1963		(483) PCS Date: 1/1/1982		
(547) Slope Protection: None				
GENERAL INFORMATION (CONTINUED)		ORIGINAL PLANS INFORMATION		
(37) Hist Significance: Not Eligible		(250) Fabricator:		
(112) NBIS: Y		(249) Contractor:		
(842) Hist/Designer:		(248) Ohio Original Construction Project No:		
(827) Hist Build Year:		(252) Microfilm Reel:		
(828) Hist Type: None N/A		(251) Standard Drawing:		
(98A) Border Bridge State:		Aperture Cards:		
(98B) Border Bridge Resp:		(246) Orig: 2		
(99) Border Bridge SFN:		(247) Repair: 2		
		(245) Fabr: 2		
PROPOSED IMPROVEMENTS		(709) Rating Source: 1 PLAN INFORMATION AVAILABLE FOR LOAD RATI		
(114) Future ADT (On Bridge): 14584		(115) Year of Future ADT: 2035		
INSPECTION SUMMARY		UTILITIES		SPECIAL FEATURES
(58) Deck: 6	(36A) Railings: Meets Acceptable Standards	(265) Electric Line: U		(283) Lighting:
(59) Superstructure: 6	(36B) Transitions: Does Not Meet Acceptable Standards/Safet	(266) Gas Line: U		(431) Fence: N
(60) Substructure: 5	(36C) Guardrail: Meets Acceptable Standards	(269) Sanitary Sewer: U		(433) Glare-Screen: N
(62) Culvert: N	(36D) Guardrail Ends: Meets Acceptable Standards	(267) Telephone Line:		(436) Splash-Guard:
(61) Channel: 4	(219) Temporary Barrier:	(268) TV Cable:		(459) Catwalks: N
(C6) Approaches:	(223) Temporary Shoring:	(270) Water Line:		(271) Other-Feat:
General Appraisal: 5	(224) Temporary Sub Decking: N	(271) Other Utilities:		(279) Signs-On:
(41) Operational Status: A				(281) Signs-Under
(90) Inspection date: 11/7/2023				(432) Fence-Ht on Bridge 0.0 FT
(91) Desig Insp Freq: 12 Mos				(434) Noise Barrier Walls
(253) SFNs Replacing this retired bridge:		Insp 1st: 01 - State Highway Agency		
(255) SFNs That were replaced by this bridge:		2nd:		
		3rd:		
		(21) Major Maint 1st: 01 - State Highway Agency		
		2nd:		
		3rd:		
		(225) Routine Maint 1st: 04 - City Or Municipal Highway Agency		
		2nd:		
		3rd:		