

Ohio Bridge Inspection Summary Report

MOT-C0024-0399 (5766478)

2: District 09358 - BROOKVILLE (MOT county)
 ict
 07

5A: Inventory Route 1 M0024

21: Major Maint A/B 02 - County Highway Agency /
 225 Routine Main A/B 02 - County Highway Agency /
 221 Inspection A/B 02 - County Highway Agency /
 220: Inv. Location BKV

7: Facility On WESTBROOK RD M0024
 6: Feature Ints WOLF CREEK
 9: Location AT WOLF CREEK PIKE
 Lat, Lon 39.831483 , -84.411714

Condition	Structure Type
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58: Deck **5 - Fair Condition**
 58.01 Wearing Surface 7 - Good (1% distress)
 58.02 Joint 6- Satisfactory (isolated leaking)
59: Superstructure **5 - Fair Condition**
 59.01 Paint & PCS N - Not Applicable
60: Substructure **7 - Good Condition**
61: Channel **7**
61.01 Scour **7 - Good**
62: Culverts **N - Not Applicable**
67.01 GA **5**

43: Bridge Type 5 - Prestressed concrete
 05 - Box Beam or Girders - Multiple
 N- Not Applicable
 45: Spans Main / Approach 1 / 0
 107: Deck Type 1 - Concrete Cast-in-Place
 408: Composite Deck U - Unknown
 414A Joint Type 1 4 - Poured
 414B: Joint Type 2 N - None
 108A: Wearing Surface 6 - Bituminous
 N- Not Applicable

Appraisal

Sufficiency Rating 87.0 SD/FO 0 - ND
 36: Rail, Tr, Gd, Term Std 0 N N N
 72: Approach Alignment 8 - Equal to present desirable criteria
 113: Scour Critical 8 - Stable for scour conditions
 71: Waterway Adequacy 7 - Slight Chance of Overtopping Bridge

422: WS Date 06/01/2013
 423: WS Thick (in) 2.0
 482: Protective Coating N - None or Not Applicable
 483: PCS Date
 453: Bearing Type 1 4 - Elastomeric (Plain)
 455: Bearing Type 2 N - None
 528: Foundn: Abut Fwd 1 - Steel H Piles (Other size)
 533: Foundn: Abut Rear 1 - Steel H Piles (Other Size)
 536: Foundn: Pier 1 N - None (Such as most Culverts)
 539: Foundn: Pier 2 N - None (Such as most Culverts)

Geometric

48: Max Span Length (ft) 57.0
 49: Structure Length (ft) 61.0
 52: Deck Width, Out-To-Out (ft) 57.8
 424: Deck Area (sf) 3525.8
 32: Appr Roadway Width (ft) 41.0
 51: Road Width, Curb-Curb (ft) 45.5
 50A: Curb/SW Width: Left (ft) 4
 50A: Curb/SW Width: Right (ft) 4
 34: Skew (deg) 35
 33: Bridge Median 0 - No median
 54B: Min Vert Underclearance (ft) 0
 336A: Min Vert Clrnce IR Cardinal (ft) 99
 336B: Min V Clr IR Non-Cardinal (ft) 0
 578: Culvert Length (ft) 0

Age and Service

27: Year Built/ 106 Rehab 1967 / 0000
 42A: Service On 1 - Highway
 42B: Service Under 5 - Waterway
 28A: Lanes on 03
 28B: Lanes Under 00
 19: Bypass Length 0
 29: ADT 2941
 109: % Trucks (%) 6

Load Posting

41: Op/Post/Closed A - Open
 70: Posting 5 - Equal to or above legal loads
 70.01: Date
 70.02: Sign Type
 734: Percent Legal (%) 150
 704: Analysis Date 07/01/2009
 63: Analysis Method 6 - Load Factor (LF) rating reported by
 rating factor (RF) method using MS18
 loading.

Inspections

	<i>Months</i>	
90: Routine Insp.	12	03/08/2022
92A: FCM Insp.	N 0	
92B: Dive Insp.	N 0	
92C: Special Insp.	N 0	
92D: UBIT Insp.	N 0	
92E: Drone Insp.	N 0	
Inspector	Schaub, Mark	

ODOT District: District 07

MOT-C0024-0399_(5766478)

Date Built: 07/01/1967

Major Maint: 02 - County Highway Agency

Facility Carried: WESTBROOK RD M0024

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 02 - County Highway Agency

Feature Inters: WOLF CREEK

Traffic Under: 5 - Waterway

Insp: 02 - County Highway

FIPS Code: 09358 - BROOKVILLE (MOT county)

Location: BKV

AT WOLF CREEK PIKE

Resp A: Agency

Insp

Resp B:

Inspector

Schaub,Mark

Inspection Date 03/08/2022

Reviewer Shields,David

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

- See Superstructure comments

Bridge Wearing Surface (SF)

- Transverse cracks over the abutments.
- New wearing surface in 2013.
- Longitudinal crack the length of the span in the EB right turn lane above beams #13 and #14.
- Diagonal crack in EB right turn lane above deteriorated area of beam # 13 near East abutment.

Curbs/Sidewalk (LF)

- Walks have been repaired, minor spalling on North curb.

Bridge Railing (LF)

- Concrete parapet ends cracked and delaminated at all 4 corners of the structure.

Deck Drainage (EA)

- Majority of the drip edge falling off of structure and was improperly installed, water permitted to run behind drip edge.

Expansion Joint (LF)

- Expansion joints paved over.

Approach

Inspector Comments - General Appraisal

Superstructure

Beams/Girders (LF)

- #1 beam, spall on North face and adjacent underside near West end, 6"H x 18"W x 18"L x 2"D, 7 broken stands.
- #1 beam, spall on bottom, from West 1/3 to East end on North edge, 15'L x up to 2'W x 2"D, 4 broken strands.
- #1 beam, spall mid-span on North face, 10'L x 1'H x 3"D with exposed stirrups.

- #1 beam, spall on East end on South face, 8'L x 1'H x 2"D with exposed stirrups.
 - #1 beam, weep holes leaking. (11+ of 46 strands broken on #1 beam, 24% plus broken)
 - #4 delam, at NW corner of beam, 6" x 6".
 - #4 beam, delamination at the East end at the abutment on North edge, 12"W x 18"L.
 - #9 beam, delamination, E. end, N. edge, 18"L x 3"W.
 - #10 beam, weep holes leaking significant moisture at the East end.
 - #10 beam, delamination, E. end, S. edge 3'L x 6"W.
 - #10 beam, spall, E. end, N. edge, 4"W x 18"L with 1 exposed strand.
 - #11 beam, weep holes leaking significant moisture at the East end.
 - #11 beam, delamination, E. end, N. edge, 3'L x 4"W.
 - #12 beam, weep holes leaking significant moisture at the East end.
 - #13 beam, weep holes leaking significant moisture at the East end.
 - #13 beam, delam./spall, near East end, 3'L x full width of the beam, corresponds to left wheel track of EB right turn lane, neighboring beams in good condition.
 - #13 beam, delam., 1'W x 18"L, East end, North edge, adjacent to full width delam./spall.
 - #14 beam, weep holes leaking significant moisture at the East end.
 - #15 beam, weep holes leaking significant moisture at the East end.
 - #15 beam, spall, W. 1/3 on S. edge on the side, 15'L x 6"W x 6"H , 3 broken strands.
 - #15 beam, entire top length of beam is spalling 16"H and up to 4"D with vertical bars exposed.
 - #15 beam, spall, E. 1/3 S. edge 10'L x 6"W x 6"H with 3 broken strands.
 - #15 beam, longitudinal crack E. 1/3. 14'L and is 9" in from S. edge, delaminated sounding along crack.
- *Bridge carries gas line on North side.

Substructure

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel Hydraulic Opening (EA)

- High water at time of 2020, 2022 inspection.

Channel

Channel Protection (LF)

Channel

Photos are on file for viewing upon request

- Channel protection washing away on East abutment (monitor), no noticeable change 2020-2022.

Scour Critical