Ohio Bridge Inspection Summary Report

BEL-00148-1414 (0704210)

2: District	11 81088 - WASHINGTON TWP (BEL county)	5A: Inventory Route	1 00148
21: Major Maint A/B	01 - State Highway Agency /	7: Facility On	SR 148
225 Routine Main A/B	01 - State Highway Agency /	6: Feature Ints	CAPTINA CREEK
221 Inspection A/B	01 - State Highway Agency /	9: Location	2.18 MI. E OF JCT SR 145
220: Inv. Location	BEL		

Condition

58: Deck	**7 - Good Condition**
58.01 Wearing Surface	7 - Good (1% distress)
58.02 Joint	7- Good (no leaking)
59: Superstructure	**6 - Satisfactory Condition**
59.01 Paint & PCS	4 - Poor PCS (15-20% corr.)
60: Substructure	**6 - Satisfactory Condition**
61: Channel	**6**
61.01 Scour	**6 - Satisfactory**
62: Culverts	**N - Not Applicable**
67.01 GA	**6**

Appraisal

36: Rail, Tr, Gd, Term Std	1 1 1 1
72: Approach Alignment	7 - Better than present minimum criteria
113: Scour Critical	8 - Stable for scour conditions
71: Waterway Adequacy	8 - Bridge Above Approaches

Geometric

48: Max Span Length (ft)	80.0
49: Structure Length (ft)	208.0
52: Deck Width, Out-To-Out (ft)	33.3
424: Deck Area (sf)	6933.3
32: Appr Roadway Width (ft)	32.0
51: Road Width, Curb-Curb (ft)	32.0
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	45
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

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	07/01/1987
63: Analysis Method	6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

Structure Type

43: Bridge Type	4 - Steel continuous
	02 - Stringer/Multi-beam or Girder
	N- Not Applicable
45: Spans Main / Approach	3 / 0
107: Deck Type	1 - Concrete Cast-in-Place
408: Composite Deck	Y - Composite Construction
414A Joint Type 1	3 - Compression Seal
414B: Joint Type 2	N - None
108A: Wearing Surface	1 - Monolithic Concrete (concurrently placed with structural deck)
	N- Not Applicable
422: WS Date	01/01/1987
423: WS Thick (in)	1.2
482: Protective Coating	2 - Unpainted Weathered Steel
483: PCS Date	
453: Bearing Type 1	2 - Rockers & Bolsters
455: Bearing Type 2	B - Fixed
528: Foundn: Abut Fwd	U - Unknown
533: Foundn: Abut Rear	U - Unknown
536: Foundn: Pier 1	U - Unknown
539: Foundn: Pier 2	U - Unknown

Age and Service

27: Year Built/ 106 Rehab	1987 /
42A: Service On	1 - Highway
42B: Service Under	5 - Waterway
28A: Lanes on	02
28B: Lanes Under	00
19: Bypass Length	40
29: ADT	1733
109: % Trucks (%)	44

Inspections

		Months	
90: Routine Insp.		12	08/19/2020
92A: FCM Insp.	N	24	
92B: Dive Insp.	N	0	
92C: Special Insp.	N	0	
92D: UBIT Insp.	N		
92E: Drone Insp.			

Inspector Lish,Jim

Inspector: Jim Lish

Inspection Date: 08/19/2020

Structure Number: 0704210

Facility Carried: SR 148

Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	3 - Mod.	6934	sq. ft.	6468	462	4	0
	BROKEN OUT AT REAR CORNERS.						
805 - Wearing Surface - Monolithic Concrete		6656	sq. ft.	6646	0	10	0
	SMALL BROKEN OUT AREAS @ EXP JOINTS. DURA-PATCHED IN 2017						
107 - Steel Open Girder/Beam	3 - Mod.	1045	ft.	0	1045	0	0
515 - Steel Protective Coating		10300	sq. ft.	0	0	10300	0
	LARGE FLAKING ON LEFT OUTSIDE BEAM ON BOTTOM FLANGE AND BASE OF WEB. ZV COATING 8/88. YELLOW AND ORANGE SPOTTING ON BOTTOM FLANGES. ACTIVE RUST IN PAINTED AREAS. HEAVY RUST AT ABUTMENTS.						
210 - Reinforced Concrete Pier Wall	3 - Mod.	44	ft.	44	0	0	0
215 - Reinforced Concrete Abutment	3 - Mod.	94	ft.	94	0	0	0
234 - Reinforced Concrete Pier Cap	3 - Mod.	94	ft.	94	0	0	0
302 - Compression Joint Seal	3 - Mod.	94	ft.	94	0	0	0
311 - Movable Bearing	3 - Mod.	15	each	5	10	0	0
313 - Fixed Bearing	3 - Mod.	5	each	5	0	0	0
321 - Reinforced Concrete Approach Slab	3 - Mod.	1600	sq. ft.	1587	0	13	0
	TWO POTHOLES, 1 SF AND 2 SF AT LT FWD APPROACH AND BACKWALL JOINT. POTHOLES 10 LF BREAKING OUT AT JOINT WITH BACKWALL AT REAR						
330 - Metal Bridge Railing	3 - Mod.	416	ft.	416	0	0	0
815 - Drainage	3 - Mod.	2	each	2	0	0	0
830 - Abutment Backwall	3 - Mod.	94	ft.	0	94	0	0

ODOT District: 11

BEL-00148-1414 _(0704210)

Date Built: 07/01/1987

Major Maint: 01 - State Highway Agency | Facility Carried: SR 148 | Traffic On: 1 - Highway | Rehab Date:

Routine Maint: 01 - State Highway Agency | Feature Inters: CAPTINA CREEK | Traffic Under: 5 - Waterway | Insp. Resp A: 01 - State Highway Agency

FIPS Code: 81088 - WASHINGTON TWP (BEL county) | Location: BEL 2.18 MI. E OF JCT SR 145 | Insp Resp B:

Inspector Lish,Jim | Inspection Date 08/19/2020 | Reviewer Waseem Khalifa

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

TRANSVERSE CRACKS WITH EFFLORESENCE SEEPAGE 4'- 6' SPACING CENTER SPAN A FEW IN OTHER SPANS. MINOR CRACKING OF OUTSIDE FWD CORNERS AND AT END DAMS, BROKEN OUT AT REAR CORNERS.

Bridge Wearing Surface (SF)

TRANSVERSE AND LONGITUDINAL CRACKS REAR & CENTER SPAN. SMALL BROKEN OUT AREAS @ EXP JOINTS. DURA-PATCHED IN 2017

Approach

Approach Wearing Surface (EA)

NEW ASPHALT IN 2020.

Approach Slab (SF)

MINOR CRACKING IN CONCRETE AT FORWARD, NEW ASPHALT IN 2020 AT REAR. 2016 INSPECTION: TWO POTHOLES, 1 SF AND 2 SF AT LT FWD APPROACH AND BACKWALL JOINT. POTHOLES 10 LF BREAKING OUT AT JOINT WITH BACKWALL AT REAR. ALL DURA-PATCHED IN 2019.

Inspector Comments - General Appraisal

Superstructure

Beams/Girders (LF)

WEATHERING STEEL. PAINTED OUT 10' FROM ABUTMENTS WITH PAINT PEELING AND RUST. HEAVY PITTING & RUST SCALE. SECTION LOSS ON FWD BEAMS AT ABUTMENTS AND SECTION LOSS AT REAR ABUTMENT.

Diaphragm/X-Frames (EA)

SECTION LOSS AND LAYERED PACK RUST AT ABUTMENTS.

Bearing Devices (EA)

TILTING OF ROCKERS MOSTLY AT FORWARD ABUTMENT. ROCKERS ALSO HAVE HEAVY RUST AND MUCH LOSS OF SECTION. FULL TILT TOWARD REAR OF 2ND BEARING FROM LEFT AT FWD ABUTMENT. PACK RUST.

Protective Coating System (LF)

LARGE FLAKING ON LEFT OUTSIDE BEAM ON BOTTOM FLANGE AND BASE OF WEB. ZV

COATING 8/88. YELLOW AND ORANGE SPOTTING ON BOTTOM FLANGES. ACTIVE RUST IN PAINTED AREAS. HEAVY RUST AT ABUTMENTS.

Substructure

Abutment Walls (LF)

MINOR VERTICAL CRACKS.

Backwalls (LF)

CRACKS, POTHOLES AND SHALLOW SPALLS IN TOPS OF BACKWALLS, DURA-PATCHED IN 2017. MINOR VERTICAL CRACKS WITH EFFLOR IN FACE OF BACKWALLS.

Substructure Scour (EA)

PLAN PAGE 17 PIER FOOTINGS SHALL EXTEND A MINIMUM OF 3" INTO BEDROCK, ABUTMENTS ON PILING. TOP OF FOOTER EXPOSED AT RT REAR PIER. 14' OF TOP OF FOOTER AND 32" OF SIDE EXPOSED AT RIGHT SIDE OF FWD ABUTMENT AND UNDERMINING OF RIGHT WINGWALL.

Slope Protection (EA)

TREE'S GROWING AT REAR EDGES. SLOPE PROTECTION WASHED AWAY AT RIGHT FWD.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel Hydraulic Opening (EA)

LARGE TREE AT PIER 1, RT SIDE

Channel

Channel Alignment (LF)

FLOW HITS DIRECTLY INTO REAR PIER. PIER 1

Channel Protection (LF)

14' OF TOP OF FOOTER AND 32" OF SIDE EXPOSED AT RT SIDE OF FWD ABUTMENT AND UNDERMINING OF RT WINGWALL.

Scour Critical

Pictures