

Inspector: Jewell,Todd

Inspection Date: 04/23/2024

Structure Number: 0700770

Facility Carried: SR 7

Ohio Bridge Inspection Summary Report**BEL-00007-2361 (0700770)**2: District 48104 - MARTINS FERRY (BEL county)
ict
11

5A: Inventory Route 1 00007

21: Major Maint A/B 01 - State Highway Agency /

7: Facility On SR 7

225 Routine Main A/B 04 - City or Municipal Highway /
Agency

6: Feature Ints GLENN'S RUN

221 Inspection A/B 01 - State Highway Agency /

9: Location 1.71 MI N OF JCT SR 647

220: Inv. Location DISTRICT 11

Lat, Lon 40.11710 , -80.70993

Condition		Structure Type	
58: Deck	8 - Very Good Condition	43: Bridge Type	3 - Steel
58.01 Wearing Surface	8 - Very Good (isolated or minor problems)		02 - Stringer/Multi-beam or Girder
58.02 Joint	6- Satisfactory (isolated leaking)		N- Not Applicable
59: Superstructure	7 - Good Condition	45: Spans Main / Approach	1 / 0
59.01 Paint & PCS	7 - Good (1-5% corr.)	107: Deck Type	1 - Concrete Cast-in-Place
60: Substructure	7 - Good Condition	408: Composite Deck	Y - Composite Construction
61: Channel	6	414A Joint Type 1	8 - Elastomeric Strip Seal
61.01 Scour	7 - Good	414B: Joint Type 2	N - None
62: Culverts	N - Not Applicable	108A: Wearing Surface	1 - Monolithic Concrete (concurrently placed with structural deck)
			N- Not Applicable
67.01 GA	7		

Appraisal		422: WS Date	12/07/2017
Sufficiency Rating	93.1 SD/FO 0 - ND	423: WS Thick (in)	1
36: Rail, Tr, Gd, Term Std	1 1 1 1	482: Protective Coating	5 - Paint System OZEU
72: Approach Alignment	8 - Equal to present desirable criteria	483: PCS Date	12/07/2017
113: Scour Critical	5 - Scour within limits of footing or piles	453: Bearing Type 1	2 - Rockers & Bolsters
71: Waterway Adequacy	9 - Bridge Above Flood Water Elevations	455: Bearing Type 2	B - Fixed
		528: Foundn: Abut Fwd	6 - Rock (including Spread Footing on Rock)
		533: Foundn: Abut Rear	6 - Rock (Including Spread Footing on Rock)
		536: Foundn: Pier 1	N - None (Such as most Culverts)
		539: Foundn: Pier 2	N - None (Such as most Culverts)

Geometric		Age and Service	
48: Max Span Length (ft)	51.0	27: Year Built/ 106 Rehab	1976 / 2017
49: Structure Length (ft)	56.7	42A: Service On	5 - Highway-pedestrian
52: Deck Width, Out-To-Out (ft)	78.2	42B: Service Under	5 - Waterway
424: Deck Area (sf)	4433.94	28A: Lanes on	04
32: Appr Roadway Width (ft)	78.2	28B: Lanes Under	00
51: Road Width, Curb-Curb (ft)	66.5	19: Bypass Length	1
50A: Curb/SW Width: Left (ft)	7	29: ADT	19000
50A: Curb/SW Width: Right (ft)	0	109: % Trucks (%)	8
34: Skew (deg)	38		
33: Bridge Median	3 - Closed median with non-mountable barriers		
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		Inspections	
41: Op/Post/Closed	A - Open	90: Routine Insp.	Months 24 04/23/2024
70: Posting	5 - Equal to or above legal loads	92A: FCM Insp.	N 0
70.01: Date		92B: Dive Insp.	N 0
70.02: Sign Type		92C: Special Insp.	N 0
734: Percent Legal (%)	150	92D: UBIT Insp.	Y 60 03/22/2022
704: Analysis Date	07/01/1983	92E: Drone Insp.	N 60 03/08/2021
63: Analysis Method	7 - Allowable Stress (AS) rating reported	Inspector	Jewell,Todd

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	by rating factor (RF) method using MS18 loading.		

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12-Reinforced Concrete Deck	3 - Mod.	4434	sq. ft.	4399	35	0	0
	CS2- (35SF) TRANSVERSE LEACHING CRACKS THROUGHOUT BAYS.						
805-Wearing Surface - Monolithic Concrete		3772	sq. ft.	3742	30	0	0
	NOTE: LEFT SIDEWALK ONLY. A FEW CRACKS TO REAR & FORWARD APPROACH WALKS. CS2- (30SF) A FEW TRANSVERSE CRACKS.						
107-Steel Open Girder/Beam	3 - Mod.	583	ft.	408	168	7	0
	CS2= SCATTERED SURFACE RUST, MAINLY ALONG FLANGE EDGES. CS3= SECTION LOSS AT FORWARD ENDS OF BEAMS 5 & 6 AND AT OUTSIDE FORWARD END OF RIGHT FASCIA.						
515-Steel Protective Coating		6598	sq. ft.	6548	42	8	0
	NOTE: OZEU 9-17 CS2= SCATTERED SURFACE RUST, MAINLY ALONG FLANGE EDGES. CS3= AREAS OF PEELING PAINT AT REAR END OF BEAM 3 & ALONG EDGES OF LOWER FLANGES IN MEDIAN BAY.						
215-Reinforced Concrete Abutment	3 - Mod.	199	ft.	163	25	11	0
	NOTE: CONCRETE DETERIORATION TO REAR-RIGHT WINGWALL OUTSIDE OF ABUTMENT LIMITS. SCOUR HOLES AS DEEP AS 2' ALONG FORWARD ABUTMENT (PROBING INDICATES NO UNDERMINING). CS2- A FEW HORIZONTAL CRACKS SCATTERED THROUGHOUT. LEACHING DELAM AT TOP RIGHT CORNER OF FORWARD ABUTMENT. CS3- SMALL VOID AT FORWARD CONSTRUCTION JOINT BELOW BAY 2 (NEAR WEEP HOLE). SPALLING ALONG FORWARD CONSTRUCTION JOINT BELOW BAY 10. A FEW OTHER SCATTERED SPALLS TO FORWARD ABUTMENT. A FEW RUST STAINS.						
300-Strip Seal Expansion Joint	3 - Mod.	193	ft.	66	123	4	0
	CS2- (105LF) AREAS OF SEALS PACKED WITH DIRT. BOTH REAR AND FWD. REAR CS2- (6LF) LONG. CR. IN HEADER. CS3- EVIDENCE OF WATER LEAKING IN REAR BAY 2. FWD CS2- (12LF) LONG. CR. IN HEADER.						
305-Assembly Joint without Seal	3 - Mod.	14	ft.	14	0	0	0
	LT SIDE OF STR. ON SIDEWALK.						
311-Movable Bearing	3 - Mod.	11	each	11	0	0	0
313-Fixed Bearing	3 - Mod.	11	each	11	0	0	0

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ODOT District: District 11

BEL-00007-2361 _(0700770)

Date Built: 07/01/1976

Major Maint: 01 - State Highway Agency

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Traffic On: 5 - Highway-pedestrian

Rehab Date: 12/07/2017

Routine Maint: 04 - City or Municipal Highway
Agency

Feature Inters: GLENN'S RUN

Traffic Under: 5 - Waterway

Insp. 01 - State Highway Agency

FIPS Code: 48104 - MARTINS FERRY (BEL county)

Location: DISTRICT 11

1.71 MI N OF JCT SR 647

Insp
Resp B:

Inspector

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Reviewer Trivoli,Raymond

Inspector Comments - Deck and Approach

Deck

Approach

APPROACH WEARING SURFACE (EA)

NOTE: THROUGH CRACK WITH SOME SETTLING TO FORWARD-LEFT APPROACH WALK. APPROACH WEARING SURFACE CONDITION - LONGITUDINAL CRACKS IN SB FORWARD & BOTH NB WEARING SURFACES. ASPHALT PATCHES IN REAR NB LANE #3 & FORWARD SB LANE #2. SOME SETTLING AT ASPHALT PATCH IN REAR NB LANE #3. MINOR ASPHALT BREAK UP & POTHOLES ALONG REAR SLAB IN NB LANE #3. ASPHALT BREAK UP ALONG FORWARD EDGE OF NB FORWARD WEARING SURFACE.

Inspector Comments - General Appraisal

Superstructure

Substructure

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Protection (LF)

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TREES GROWING THROUGH OLD SECTION OF RETAINING WALL AT REAR-LEFT. GAPS BETWEEN OLD RETAINING WALL & NEW RETAINING WALL WHERE HIGH WATER CAN GET BEHIND. LAST SECTION OF NEW RETAINING WALL BEING UNDERMINED & SEPARATING W / 16" DISPLACEMENT AT TOP (APPROX 200' UPSTREAM AND NOT IMPACTING STRUCTURE AT THIS TIME).

Hydraulic Opening (EA)

SEDIMENT, DEBRIS, ROCKS & PIECES OF OLD CONCRETE BUILT UP IN CHANNEL & ALONG REAR ABUTMENT CAUSING FLOW ALONG FORWARD ABUTMENT. SOME STREAM BED DEGRADATION.

Scour Critical

2024: LT REAR UNDER BAY # 7 AT WATER LINE SCOUR HOLE ABOUT 2' DEEP AT LOCATION OF ABUT. THAT STICKS OUT AT BOT. SEE 2024 PICTURE (IMG 1458)

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Bridge Inspection Report

Pictures