

Inspector: Beedy,Matthew

Inspection Date: 03/22/2023

Structure Number: 4505522

Facility Carried: SR 161 EB

Ohio Bridge Inspection Summary Report

LIC-00161-0062R (4505522)

2: District 39102 - JERSEY TWP (LIC county)
ict
05

5A: Inventory Route 1 00161

21: Major Maint A/B 01 - State Highway Agency /
225 Routine Main A/B 01 - State Highway Agency /
221 Inspection A/B 01 - State Highway Agency /
220: Inv. Location DISTRICT 05

7: Facility On SR 161 EB
6: Feature Ints SR 161EB OVER BEECH ROAD
9: Location .6 MI E OF FRANKLIN C LIN
Lat, Lon 40.0799800472694 , -82.7535848974824

Condition Structure Type

58: Deck 8 - Very Good Condition
58.01 Wearing Surface 8 - Very Good (isolated or minor problems)
58.02 Joint N- Not Applicable
59: Superstructure 8 - Very Good Condition
59.01 Paint & PCS 8 - Very Good (up to 1% corr.)
60: Substructure 8 - Very Good Condition
61: Channel N
61.01 Scour N - Not Applicable
62: Culverts N - Not Applicable
67.01 GA 8

43: Bridge Type 3 - Steel
02 - Stringer/Multi-beam or Girder
N- Not Applicable
45: Spans Main / Approach 1 / 0
107: Deck Type 1 - Concrete Cast-in-Place
408: Composite Deck Y - Composite Construction
414A Joint Type 1 N - None
414B: Joint Type 2 N - None
108A: Wearing Surface 1 - Monolithic Concrete
(concurrently placed with structural deck)
N- Not Applicable

Appraisal

Sufficiency Rating 85.0 SD/FO 0 - ND
36: Rail, Tr, Gd, Term Std 1 1 1 1
72: Approach Alignment 7 - Better than present minimum criteria
113: Scour Critical N - Not over waterway
71: Waterway Adequacy N - Not Applicable

422: WS Date 10/01/2008
423: WS Thick (in) 1.0
482: Protective Coating 9 - Paint System IZEU
483: PCS Date 10/01/2008
453: Bearing Type 1 C - Elastomeric (laminated)
455: Bearing Type 2 N - None
528: Foundn: Abut Fwd C - Cast-in-Place Reinforced Concrete Piles (16" diameter)
533: Foundn: Abut Rear C - Cast-in-Place Reinforced Concrete Piles (16" diameter)
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) 142.0
49: Structure Length (ft) 144.0
52: Deck Width, Out-To-Out (ft) 60.0
424: Deck Area (sf) 8640
32: Appr Roadway Width (ft) 56.0
51: Road Width, Curb-Curb (ft) 56.0
50A: Curb/SW Width: Left (ft) 0
50A: Curb/SW Width: Right (ft) 0
34: Skew (deg) 8
33: Bridge Median 0 - No median
54B: Min Vert Underclearance (ft) 18.08
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 2008 / 0000
42A: Service On 1 - Highway
42B: Service Under 1 - Highway, with or w/out pedestrian
28A: Lanes on 02
28B: Lanes Under 04
19: Bypass Length 14
29: ADT 15420
109: % Trucks (%) 5

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 07/01/2011
63: Analysis Method 8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF)

Inspections

90: Routine Insp. Months 24 03/22/2023
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
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method using HL-93 loadings.

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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.	8640	sq. ft.	8580	60	0	0
	CS2 Edge of floor Multiple locations of minor vertical cracks (CS 2) on left edge (21') and right edge (9').						
805-Wearing Surface - Monolithic Concrete		8064	sq. ft.	7914	150	0	0
	CS2- Random areas of small longitudinal cracking estimated (150 SF CS2) 2019 - Crews placed HMWM						
107-Steel Open Girder/Beam	3 - Mod.	966	ft.	966	0	0	0
515-Steel Protective Coating		16382	sq. ft.	15252	1130	0	0
	Areas of both outside beams exhibits paint fading estimated 60' (CS 2). Areas of interior beams showing signs of discoloring and fading (CS2)						
215-Reinforced Concrete Abutment	3 - Mod.	121	ft.	113	8	0	0
	CS 2-Minor vertical cracks (CS 2) at rear abutment (4') and forward abutment (4'). Water running down the face of each abutment. Water is coming form the horizontal joint between the diaphragms and abutment seat.						
310-Elastomeric Bearing	3 - Mod.	14	each	14	0	0	0
321-Reinforced Concrete Approach Slab	3 - Mod.	5593	sq. ft.	5593	0	0	0
331-Reinforced Concrete Bridge Railing	3 - Mod.	288	ft.	254	34	0	0
	CS2-Multiple locations of minor vertical or horizontal cracks or minor abrasion (CS 2) on left railing (6') and right railing (28').						
815-Drainage	3 - Mod.	2	each	1	1	0	0
	Previous inspections noted some minor ponding of water along the left and right shoulders. Heavy gravel building up along right side.						
840-Approach Slab: Termination or Joint	3 - Mod.	112	ft.	92	0	20	0
	CS2- Grass growing along shoulders with deterioration of joint sealer						

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ODOT District: District 05

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Date Built: 11/01/2008

Major Maint: 01 - State Highway Agency

Facility Carried: SR 161 EB

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: SR 161EB OVER BEECH ROAD

Traffic Under: 1 - Highway, with or w/out pedestrian

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 39102 - JERSEY TWP (LIC county)

Location: DISTRICT 05

.6 MI E OF FRANKLIN C LIN

Insp Resp B:

Inspector

Beedy,Matthew

Inspection Date 03/22/2023

Reviewer Zigan,Curtis

Inspector Comments - Deck and Approach

Deck

Approach

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames (EA)

54 Steel crossframes and 12 concrete diaphragms at abutments Vertical cracks under beams in concrete diaphragms still within CS1 limits

Protective Coating System (LF)

Areas of both outside beams exhibits paint fading estimated 60' (CS 2). Areas of interior beams showing signs of discoloring and fading (CS2)

Utilities (LF)

Electrical conduit in both parapets.

Substructure

Wingwalls (EA)

Left rear exhibits minor cracks in coping (1, CS 2). Right rear exhibits minor cracks, spalls, and scaling at top of wall (1, CS 2). Left forward exhibits minor cracks in coping and transverse spalling at face next to abutment seat (1, CS 2). Right forward exhibits minor cracks, spalls, and scaling at top of wall (1, CS 3). Right rear and right forward exhibit PEJF between wingwall and abutment deteriorating and staining abutment wall.

Culvert

Inspector Comments - Waterway

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Waterway Adequacy

Channel

Scour Critical

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Bridge Inspection Report

Pictures



PHOTO 1

Description



PHOTO 2

Description

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Bridge Inspection Report

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PHOTO 3
Description



PHOTO 4
Description

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Bridge Inspection Report

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PHOTO 5

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PHOTO 6

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Bridge Inspection Report

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PHOTO 7

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PHOTO 8

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Bridge Inspection Report

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PHOTO 9

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PHOTO 10

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PHOTO 11

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PHOTO 12

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PHOTO 13

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PHOTO 14

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PHOTO 15

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PHOTO 16

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PHOTO 17
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PHOTO 18
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PHOTO 19

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PHOTO 20

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PHOTO 21

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PHOTO 22

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PHOTO 23

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PHOTO 24

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Bridge Inspection Report

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PHOTO 25

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PHOTO 26

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PHOTO 27

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PHOTO 28

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PHOTO 29

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PHOTO 30

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PHOTO 31

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PHOTO 32

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Bridge Inspection Report

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PHOTO 33

Description



PHOTO 34

Description