

Inspector: Spong,Adam

Inspection Date: 09/12/2024

Structure Number: 7604831

Facility Carried: SR 93

Ohio Bridge Inspection Summary Report

STA-00093-0434 (7604831)

2: District 08504 - BREWSTER (STA county)
ict
04

5A: Inventory Route 1 00093

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 04

7: Facility On SR 93
6: Feature Ints SUGAR CREEK
9: Location 0.06 MI S OF US 62
Lat, Lon 40.700122 ,-81.598386

Condition	Structure Type
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58: Deck **5 - Fair Condition**
58.01 Wearing Surface 7 - Good (1% distress)
58.02 Joint 4- Poor (heavy leaking, offset)
59: Superstructure **7 - Good Condition**
59.01 Paint & PCS 7 - Good (1-5% corr.)
60: Substructure **6 - Satisfactory Condition**
61: Channel **7**
61.01 Scour **7 - Good**
62: Culverts **N - Not Applicable**
67.01 GA **6**

43: Bridge Type 4 - Steel continuous
02 - Stringer/Multi-beam or Girder
N- Not Applicable
45: Spans Main / Approach 2 / 0
107: Deck Type 1 - Concrete Cast-in-Place
408: Composite Deck U - Unknown
414A Joint Type 1 2 - Sliding Metal Plate Angle
414B: Joint Type 2 N - None
108A: Wearing Surface 6 - Bituminous
N- Not Applicable

Appraisal

Sufficiency Rating 94.7 SD/FO 0 - ND
36: Rail, Tr, Gd, Term Std 1 1 1 1
72: Approach Alignment 8 - Equal to present desirable criteria
113: Scour Critical 8 - Stable for scour conditions
71: Waterway Adequacy 8 - Bridge Above Approaches

422: WS Date 07/01/2020
423: WS Thick (in) 2.0
482: Protective Coating 5 - Paint System OZEU
483: PCS Date 09/01/2008
453: Bearing Type 1 3 - Sliding (Bronze)
455: Bearing Type 2 N - None
528: Foundn: Abut Fwd 2 - Cast-in-Place Reinforced Concrete Piles (Other diameter)
533: Foundn: Abut Rear 2 - Cast-in-Place reinforced Concrete Piles (Other diameter)
536: Foundn: Pier 1 2 - Cast-in-Place Reinforced Concrete Piles (Other diameter)
539: Foundn: Pier 2 N - None (Such as most Culverts)

Geometric

48: Max Span Length (ft) 73.0
49: Structure Length (ft) 153.0
52: Deck Width, Out-To-Out (ft) 36.1
424: Deck Area (sf) 5523.3
32: Appr Roadway Width (ft) 24.0
51: Road Width, Curb-Curb (ft) 36.0
50A: Curb/SW Width: Left (ft) 0
50A: Curb/SW Width: Right (ft) 0
34: Skew (deg) 99
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 1955 / 0000
42A: Service On 1 - Highway
42B: Service Under 5 - Waterway
28A: Lanes on 02
28B: Lanes Under 00
19: Bypass Length 2
29: ADT 3471
109: % Trucks (%) 9

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 (%) 135
704: Analysis Date 11/29/2022
63: Analysis Method 6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

Inspections

	Months	
90: Routine Insp.	12	09/12/2024
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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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12-Reinforced Concrete Deck	3 - Mod.	5521	sq. ft.	824	3314	1383	0
Deck edges patched/repared 2008. CS2: - Transverse and map cracking with saturation at various intervals. - Rust staining along top flange. - Span 1 approx. 138sf. - Span 2 approx. 48sf CS3: - Map cracking with delaminations throughout. - Span 1 approx. 122sf. - Span 2 approx. 72sf. - Spalls with rebar exposed. - Span 1 approx. 27sf. - Saturation/moderate effl. and rust staining. approx. 1104sf. - Saturation with moderate effl and rust staining at deck ends approx. 48sf. - Spalls with rebar exposed in span #1 bay #2. Approx. 2'x4 and 4' x 8' in size. - Reflective cracking with rust staining throughout. - Spalls >1" deep at rear deck joint, bay #1 approx. 2sf, bay #2 approx. 3sf, bay #3 approx. 5sf.							
510-Wearing Surfaces		5508	sq. ft.	5356	72	80	0
New asphalt 2020. CS2: - D-cracking full width at expansion joints. CS3: - Pothole over expansion joint at rear left, approx. 4' long. - Pothole over expansion joint at forward left and center, approx. 6' long.							
107-Steel Open Girder/Beam	3 - Mod.	765	ft.	750	15	0	0
CS2: - Minor section loss at abutments at web/bottom flange joint, has been painted over. - Beam ends within 1" of backwall at rear abutment. Appears beams ends at forward abutment trimmed 2020.							
515-Steel Protective Coating		8524	sq. ft.	8324	186	14	0
CS2: - Areas of rust and rust staining along top flanges throughout from saturated deck. - Rust and rust staining at beam ends. CS3: - Peeling along top top flange beam 1 span 1 approx. 14sf							
205-Reinforced Concrete Column	3 - Mod.	3	each	3	0	0	0
Scaling, has been sealed over.							
215-Reinforced Concrete Abutment	3 - Mod.	72	ft.	64	4	4	0
Patched and sealed 2020. CS2: - Isolated vertical cracks <1/16" approx. 2 ea. CS3: - Map cracking <1/16" at patched area at forward bay 3, 4lf.							

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234-Reinforced Concrete Pier Cap	3 - Mod.	36	ft.	33	3	0	0
Sealed 2008. CS2: - Vertical cracks <1/16".							
305-Assembly Joint without Seal	3 - Mod.	72	ft.	0	0	72	0
Paved over 2020. Area over joint, approx. 1" wide, has been slot-cut and filled with crack seal. CS3: - D-Cracking with potholes and pavement deterioration on both sides of expansion joint. - Leaking evident at both joints. 2019 comments: Expansion joints cleaned out 2017. Asphalt around expansion joints is cracked and broken up. Both joints are making a banging noise. Plow damage at forward center, riser on deck side is torn.							
311-Movable Bearing	3 - Mod.	15	each	5	10	0	0
Abutment bearings refurbished 2020. CS2: - Light rust and deterioration at abutment bearings. 2019 comments: Bearings at forward abutment are over extended. Welds connecting top bearing plates to bottom flanges at forward abutment are cracked. One broken weld at bearing plate/bottom flange connection at rear abutment. Rust with moderate deterioration to bearings at forward abutment. Light rust and deterioration at rear abutment. All bearings were painted 2008.							
321-Reinforced Concrete Approach Slab	3 - Mod.	1200	sq. ft.	1128	72	0	0
Paved over, new asphalt 2020. CS2: - D-Cracking full width at expansion joints.							
330-Metal Bridge Railing	3 - Mod.	306	ft.	306	0	0	0
815-Drainage	3 - Mod.	2	each	2	0	0	0
830-Abutment Backwall	3 - Mod.	72	ft.	48	12	12	0
CS2: - Vertical cracks <1/16" with saturation and effl. at both backwalls. - Horizontal crack <1/16" forward abutment bay #3 approx. 4lf. CS3: - Spalls >1" with concrete deterioration at top of backwall at forward abutment bay #1, approx. 4' long. Bay #2 approx 4' long. Bay #3 approx. 2' long. - Spalls >1" with concrete deterioration at top of backwall at right rear, approx. 2' long.							

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ODOT District: District 04

STA-00093-0434_(7604831)

Date Built: 07/01/1955

Major Maint: 01 - State Highway Agency

Facility Carried: SR 93

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: SUGAR CREEK

Traffic Under: 5 - Waterway

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 08504 - BREWSTER (STA county)

Location: DISTRICT 04

0.06 MI S OF US 62

Insp Resp B:

Inspector

Spong,Adam

Inspection Date 09/12/2024

Reviewer Chaney,Nicholas

Inspector Comments - Deck and Approach

Deck

Approach

Inspector Comments - General Appraisal

Superstructure

Substructure

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

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Bridge Inspection Report

Pictures



PHOTO 1
Description Id sign



PHOTO 2
Description Upstation

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Bridge Inspection Report

Pictures



PHOTO 3

Description Rear approach



PHOTO 4

Description Rear joint

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PHOTO 5

Description Wearing surface



PHOTO 6

Description Wearing surface

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PHOTO 7

Description Wearing surface



PHOTO 8

Description Upstream

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Bridge Inspection Report

Pictures



PHOTO 9

Description Forward joint

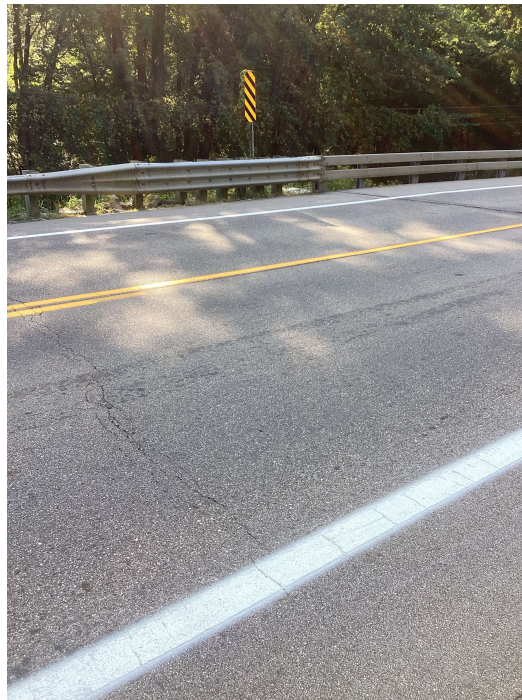


PHOTO 10

Description Forward approach

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Pictures



PHOTO 11

Description Forward approach



PHOTO 12

Description Forward joint

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Bridge Inspection Report

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PHOTO 13

Description Wearing surface



PHOTO 14

Description Downstream

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Bridge Inspection Report

Pictures



PHOTO 15

Description Wearing surface



PHOTO 16

Description Rear joint

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PHOTO 17

Description Rear approach



PHOTO 18

Description Profile

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PHOTO 19

Description Rear abutment



PHOTO 20

Description Rear abutment bay 4

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PHOTO 21

Description Rear abutment bm4



PHOTO 22

Description Rear abutment bay 2

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PHOTO 23
Description Span 1



PHOTO 24
Description Span 1

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PHOTO 25
Description Span 1



PHOTO 26
Description Span 1

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PHOTO 27
Description Span 1



PHOTO 28
Description Pier 1

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PHOTO 29
Description Pier 1



PHOTO 30
Description Pier 1

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PHOTO 31
Description Span 2



PHOTO 32
Description Span 2

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PHOTO 33
Description Span 2



PHOTO 34
Description Span 2

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PHOTO 35

Description Forward abutment



PHOTO 36

Description Forward abutment bay 1

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PHOTO 37

Description Forward abutment bay 3



PHOTO 38

Description Forward abutment