

Inspector: Jewell,Todd
 Inspection Date: 08/01/2022

Structure Number: 4103181
 Facility Carried: SR 213

Bridge Inspection Report

Ohio Bridge Inspection Summary Report

JEF-00213-1518 (4103181)

2: District 70086 - SALINE TWP (JEF county)
 District 11

5A: Inventory Route 1 00213

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 11

7: Facility On SR 213
 6: Feature Ints NORTH FORK YELLOW CR
 9: Location .07 MI N OF PENNA RR
 Lat, Lon 40.5575 , -80.705528

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

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 N - Non-composite Construction
 414A Joint Type 1 2 - Sliding Metal Plate Angle
 414B: Joint Type 2 N - None
 108A: Wearing Surface 6 - Bituminous
 N- Not Applicable
 422: WS Date 10/31/2015
 423: WS Thick (in) 4.5
 482: Protective Coating 5 - Paint System OZEU
 483: PCS Date 10/01/1997
 453: Bearing Type 1 3 - Sliding (Bronze)
 455: Bearing Type 2 B - Fixed
 528: Foundn: Abut Fwd 8 - Steel H Piles (HP 12 x 53)
 533: Foundn: Abut Rear 8 - Steel H Piles (HP 12 x 53)
 536: Foundn: Pier 1 8 - Steel H Piles (HP 12 x 53)
 539: Foundn: Pier 2 8 - Steel H Piles (HP 12 x 53)

Appraisal

Sufficiency Rating 69.0 SD/FO 1 - SD
 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

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Geometric

48: Max Span Length (ft) 50.0
 49: Structure Length (ft) 134.5
 52: Deck Width, Out-To-Out (ft) 44.0
 424: Deck Area (sf) 5918
 32: Appr Roadway Width (ft) 28.0
 51: Road Width, Curb-Curb (ft) 42.7
 50A: Curb/SW Width: Left (ft) 0
 50A: Curb/SW Width: Right (ft) 0
 34: Skew (deg) 0
 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 1965 / 0000
 42A: Service On 1 - Highway
 42B: Service Under 5 - Waterway
 28A: Lanes on 02
 28B: Lanes Under 00
 19: Bypass Length 19
 29: ADT 1858
 109: % Trucks (%) 3

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 02/28/2022
 63: Analysis Method 6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18

Inspections

90: Routine Insp.	12	Months	08/01/2022
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	

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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.	5856	sq. ft.	4422	1344	90	0
MINOR RANDOM & TRANSVERSE CRACKING IN FLOOR WITH AREAS WITH MOISTURE SEEPAGE LESS THAN 1%. 240SF OF MAP CRACKING AND DISCOLORED AREA IN SPAN 1, BAY 3. 46 SF SPALLED OUT AROUND ANCHOR BOLTS							
510-Wearing Surfaces		5675	sq. ft.	5238	337	100	0
NEW ASPHALT '10. TRANSVERSE AND LONGITUDINAL CRACKS IN BOTH LANES. 2022 INSP: CS3- (100SF) POTHOLE IN RT SIDE IN MIDDLE OF LANE LENGTH OF BRIDGE.							
107-Steel Open Girder/Beam	3 - Mod.	798	ft.	798	0	0	0
6 BEAMS. OLD SECTION LOSS.							
515-Steel Protective Coating		7449	sq. ft.	7349	100	0	0
LIGHT RUST ON MASONRY AND SOLE PLATES AT ABUTMENTS. RUST ON OUTSIDE BOTTOM FLANGE EDGES AND SOME ISOLATE CORROSION ON TOP FLANGE.							
202-Steel Column	3 - Mod.	18	each	0	11	0	7
2022 INSP: CS4- (7EA) Heavy section loss of pile at waterline. Pier 1: Pile 9 (right exterior) 75% loss of section with perforations to web and flange. Piles 6, 7 and 8 have 50% SL to flange and 25% SL to web (equals about 45% total loss) Pier 2: Piles 1, 2, 3 and 4 have 50% SL to flange and 25% SL to web (equals about 45% total loss) CS2- (11EA) REMAINING PILES HAVE LOSS OF PROTECTIVE COATING AT WATER LEVEL.							
215-Reinforced Concrete Abutment	3 - Mod.	88	ft.	60	10	18	0
VERTICAL AND HORIZONTAL HAIRLINE CRACKING FWD RIGHT. SMALL SPALL AT RIGHT REAR OUTSIDE CORNER W/REBAR EXPOSED. 4' SPALL W/ DELAMINATIONS AT LT REAR BETWEEN BEAMS1 AND 2. 3' LONG HORIZONTAL CRACK UNDER BEAM 3 AT REAR. MINOR EDGE SPALL AT LEFT FWD WINGWALL. 2022 INSP: CS3- (1LF) SPALL ON RT REAR ABUT. AT BEAM#6. CS3- (5LF) CR. W/ HVY. EFF. AT FWD AT BAY #.							
234-Reinforced Concrete Pier Cap	3 - Mod.	88	ft.	88	0	0	0
305-Assembly Joint without Seal	3 - Mod.	88	ft.	0	88	0	0
COVERED WITH ASPHALT							

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311-Movable Bearing	3 - Mod.	12	each	0	9	3	0
SOLE PLATE TO BEAM WELD CRACKED, 2ND FROM LEFT AT FWD ON RIGHT SIDE. PACK RUST AT MOST ALL ABUTMENT BEARINGS. 2022 INSP: CS3- (3EA) SECTION LOSS AND PACKED RUST IS EVIDENT AT BEARINGS1,2,4 ON REAR.							
313-Fixed Bearing	3 - Mod.	12	each	12	0	0	0
321-Reinforced Concrete Approach Slab	3 - Mod.	1400	sq. ft.	1120	280	0	0
APPROACH SLABS PAVED OVER. CRACKING OVER REAR AND FWD EXP JOINT. 1 SF POT HOLE AT CENTERLINE AT FWD EXPANSION JOINT.							
330-Metal Bridge Railing	3 - Mod.	266	ft.	0	246	20	0
MINOR COLLISION DAMAGE ON LEFT SIDE RAIL AND HAND RAILS. LIGHT RUST ON RAIL. MISSING BOLT ON LT SIDE, MID-SPAN. 20 SETS OF ANCHOR BOLTS EXPOSED WITH RUST AND SECTION LOSS ON LEFT. 2022 INSP: CS3- (20LF) 20 SETS OF ANCHOR BOLTS EXPOSED WITH RUST AND SECTION LOSS ON LEFT SIDE OF DECK.							
815-Drainage	3 - Mod.	2	each	0	0	2	0
DRIP STRIP LOOSE AT LT FWD. 2022 INSP: CS3- (2EA) DRIP STRIP HAS SECTION LOSS (THROUGH HOLES) ON BOTH LT/RT SIDE OF DECK.							
830-Abutment Backwall	3 - Mod.	88	ft.	69	4	15	0
MINOR SPALLED OUT PLACES UNDER EXPANSION JOINTS ON BOTH SIDES. LARGE 3'X 2' SHALLOW SPALL @ LEFT REAR. CRACKING WITH EFFLOR SEEPAGE AT REAR. 3'X2'X2" DEEP SPALL AT FWD, BAY3. 2022 INSP: CS3- (3LF) SPALL W/ EXPOSED REBAR AT BAY1 ON REAR SIDE.							

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ODOT District: District 11

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Date Built: 07/01/1965

Major Maint: 01 - State Highway Agency

Facility Carried: SR 213

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: NORTH FORK YELLOW CR

Traffic Under: 5 - Waterway

Insp: 01 - State Highway Agency

FIPS Code: 70086 - SALINE TWP (JEF county)

Location: DISTRICT 11

.07 MI N OF PENNA RR

Resp A:

Insp

Resp B:

Inspector

Jewell,Todd

Inspection Date 08/01/2022

Reviewer Khalifa,Waseem

Inspector Comments - Deck and Approach

Deck

FLOOR / SLAB (SF)

WEARING SURFACE (SF)

2022 INSP: CHIP AND SEAL ON WEARING SURFACE.

Approach

Approach Wearing Surface (EA)

NEW ASPHALT '10. TRANSVERSE CRACKING.

2022 INSP: CHIP AND SEAL

Inspector Comments - General Appraisal

Superstructure

Substructure

Substructure Scour
(EA)

PROBED IN 2019.

Culvert

Inspector Comments - Waterway

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Waterway Adequacy

Channel Hydraulic Opening (EA)

DEBRIS AT PIERS. SAND AND STONE PUSHED INTO BOTH SIDES OF BOTH PIERS. SEE PICS.
LOGS AT PIER 1 IN 2018.

Channel

Channel Protection (LF)

COVERED WITH VEGETATION.

Scour Critical