

Ohio Bridge Inspection Summary Report

CUY-00090-0909 (1808125)

2: District 16000 - CLEVELAND (CUY county)
 ict
 12

5A: Inventory Route 1 00066

21: Major Maint A/B 01 - State Highway Agency /
 225 Routine Main A/B 04 - City or Municipal Highway /
 Agency
 221 Inspection A/B 01 - State Highway Agency /
 220: Inv. Location DISTRICT 12

7: Facility On WARREN ROAD CR-66
 6: Feature Ints IR-90 (WARREN)
 9: Location 1.34 MI E OF JCTSR237
 Lat, Lon 41.468987538 , -81.79724457

Condition	Structure Type
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58: Deck **4 - Poor Condition**
 58.01 Wearing Surface 5 - Fair (10-15%, 2% asphalt patch)
 58.02 Joint 4- Poor (heavy leaking, offset)
59: Superstructure **7 - Good Condition**
 59.01 Paint & PCS 6 - Satisfactory (5-10% corr.)
60: Substructure **7 - Good Condition**
61: Channel **N**
61.01 Scour **N - Not Applicable**
62: Culverts **N - Not Applicable**

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 N - Non-composite Construction
 414A Joint Type 1 8 - Elastomeric Strip Seal
 414B: Joint Type 2 N - None
 108A: Wearing Surface 2 - Integral Concrete (separate non-modified layer of concrete added to structural deck)
 2- MicroSilica

67.01 GA **7**

Appraisal

Sufficiency Rating 88.8 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 N - Not over waterway
 71: Waterway Adequacy N - Not Applicable

422: WS Date 05/24/2001
 423: WS Thick (in) 2.0
 482: Protective Coating 5 - Paint System OZEU
 483: PCS Date 08/09/2001
 453: Bearing Type 1 2 - Rockers & Bolsters
 455: Bearing Type 2 N - None
 528: Foundn: Abut Fwd 4 - Spread Footing (on soil)
 533: Foundn: Abut Rear 4 - Spread Footing (on Soil)
 536: Foundn: Pier 1 4 - Spread Footing (on soil)
 539: Foundn: Pier 2 0 - Other

Geometric

48: Max Span Length (ft) 147.0
 49: Structure Length (ft) 298.0
 52: Deck Width, Out-To-Out (ft) 78.0
 424: Deck Area (sf) 23244
 32: Appr Roadway Width (ft) 64.0
 51: Road Width, Curb-Curb (ft) 64.0
 50A: Curb/SW Width: Left (ft) 6
 50A: Curb/SW Width: Right (ft) 6
 34: Skew (deg) 4
 33: Bridge Median 0 - No median
 54B: Min Vert Underclearance (ft) 14.59
 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 1976 / 0000
 42A: Service On 5 - Highway-pedestrian
 42B: Service Under 1 - Highway, with or w/out pedestrian
 28A: Lanes on 04
 28B: Lanes Under 08
 19: Bypass Length 1
 29: ADT 41217
 109: % Trucks (%) 2

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 07/01/2002
 63: Analysis Method 6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

Inspections

	<i>Months</i>	
90: Routine Insp.	12	02/24/2022
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

Inspector Banaszak, Ken

Inspector: Ken Banaszak
 Inspection Date: 02/24/2022

Structure Number: 1808125
 Facility Carried: WARREN ROAD CR-66

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.	23422	sq. ft.	10787	12000	625	10
	CS2- Cracks, some leaching, mottled areas, several full depth repairs CS3- Some heavy mottled areas with rust stains. Approximately 550 SF of spalls & delams throughout, one full depth repair with void around metal plate in bay 7 span 2. CS4- Bay 7 over WB #3 lane has spall with 4+ consecutive bars of rebar exposed.						
510 - Wearing Surfaces		19008	sq. ft.	0	18978	15	15
	CS2- Map cracks throughout. Concrete patch in SB lane #3. CS3- Spalls and delaminated areas. CS4- Asphalt patches and pot holes						
107 - Steel Open Girder/Beam	3 - Mod.	2940	ft.	2923	12	5	0
	CS2- Minor rusted areas, mainly to lower flanges. CS3- Several gouges as deep as 1/2" with lower flange bent up 1/2" in right fascia over WB lane #3.						
515 - Steel Protective Coating		52920	sq. ft.	37145	15000	750	25
	CS2- Faded areas, heaviest to fascia beams. CS3- Surface rust with blistering & peeling paint. CS4- Spots of bare rusted metal.						
205 - Reinforced Concrete Column	3 - Mod.	6	each	5	1	0	0
	CS2- P1C1-6 SF delam						
215 - Reinforced Concrete Abutment	3 - Mod.	161	ft.	153	8	0	0
	CS2- Cracks, some leaching.						
234 - Reinforced Concrete Pier Cap	3 - Mod.	72	ft.	69	0	3	0
	CS3- Delam to rear of P1 near downspout.						
305 - Assembly Joint without Seal	3 - Mod.	128	ft.	0	104	14	10
	CS2- Dirt and debris through out. Cracks to header. Repaired cracks. CS3-A few gouges. Spalls to expansion header. CS4- Forward-left sidewalk cover plate bent up with rusting thru holes. Joints leak in several locations with debris on abutment seats. Crack to weld in SB #2 lane at rear. Crack to weld in SB #1 at forward.						

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311 - Movable Bearing	3 - Mod.	20	each	0	19	1	0
<p>CS2- Abutment bearing have surface rust. Minor on most, a little heavier on a few. Missing keeper plates to all fascia bearings.</p> <p>CS3- Rear right fascia bearing with missing keeper plate shows minor traverse movement.</p>							
313 - Fixed Bearing	3 - Mod.	10	each	6	4	0	0
<p>CS2- Some have rust starting.</p>							
321 - Reinforced Concrete Approach Slab	3 - Mod.	3200	sq. ft.	3010	190	0	0
<p>Note: Paved over with asphalt.</p> <p>CS2- Cracks along forward expansion joint full length. Sealed cracks along rear exjt.</p>							
331 - Reinforced Concrete Bridge Railing	3 - Mod.	596	ft.	415	180	1	0
<p>CS2- Cracks, a few rust stains, scaling.</p> <p>CS3- Spall to outside left rail at forward exjt.</p>							
815 - Drainage	3 - Mod.	2	each	0	0	0	2
<p>CS4- Two scuppers along left curb plugged & downspout at pier plugged at ground.</p>							
830 - Abutment Backwall	3 - Mod.	161	ft.	120	25	16	0
<p>CS2- Cracks.</p> <p>CS3- Delams & spalls with exposed rebar. Deterioration in top of forward backwall under curb in bay 1.</p>							

ODOT District: District 12

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Date Built: 07/01/1976

Major Maint: 01 - State Highway Agency

Facility Carried: WARREN ROAD CR-66

Traffic On: 5 - Highway-pedestrian

Rehab Date:

Routine Maint: 04 - City or Municipal Highway
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Feature Inters: IR-90 (WARREN)

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

Insp: 01 - State Highway Agency

FIPS Code: 16000 - CLEVELAND (CUY county)

Location: DISTRICT 12

1.34 MI E OF JCTSR237

Resp A:

Insp

Resp B:

Inspector

Banaszak, Ken

Inspection Date 02/24/2022

Reviewer Seif, Youssef

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

SOT- Eastbound {Bay 7, lanes 1 and 3}{Bay 8, lane 4} Westbound {Bay 3, lane 3}{Bay 7, lane 4}

Curbs/Sidewalk (LF)

Cracks, light scaling, some delams & spalls to curbs.

Approach

Approach Wearing Surface (EA)

Cracks and minor asphalt break up along both expansion joints.

Approach Embankment (EA)

Forward approach curbs spalled & breaking up.

Approach Guardrail (EA)

Post rot, collision damage with several missing posts to forward-left, collision damage to forward and rear-right, spalls to forward-left & rear-left concrete approach rails.

Signs (EA)

No bridge end markers.

Sign Supports (EA)

Arrow sign over Warren road SB lane #3 has tilted in reducing vertical clearance.

Inspector Comments - General Appraisal

Superstructure

NOTE: Structure has lower lateral bracing in bays 2,5 and 8.

Diaphragm/X-Frames (EA)

Bent horizontal angle in bay 1 over WB lane #2, rusting section loss with thru holes to forward endframes 1, 2, 3 & 9.

Fatigue (LF)

Lateral bracing gusset plates welded to webs.

Utilities (LF)

Note: Old lighting fixtures extend below lower flanges in areas. Missing/broken conduit in forward bay 7. Utility vault in left sidewalk filled with dirt near rear.

Substructure

NOTE: Rear abutment is walled only.

Slope Protection (EA)

20' long crack in forward csp below bays 5 & 6, other cracks to both, areas of settlement.

Wingwalls (EA)

Forward left wingwall had cracks.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical