

# Ohio Bridge Inspection Summary Report

**CUY-00090-0909 (1808125)**

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

5A: Inventory Route 1 00066  
 7: Facility On WARREN ROAD CR-66  
 6: Feature Ints IR-90 (WARREN)  
 9: Location 1.34 MI E OF JCTSR237

Condition	
<b>58: Deck</b>	<b>5 - Fair Condition</b>
58.01 Wearing Surface	6 - Satisfactory (1-10% distress)
58.02 Joint	4- Poor (heavy leaking, offset)
<b>59: Superstructure</b>	<b>7 - Good Condition</b>
59.01 Paint & PCS	7 - Good (1-5% corr.)
<b>60: Substructure</b>	<b>7 - Good Condition</b>
<b>61: Channel</b>	<b>N</b>
61.01 Scour	<b>N - Not Applicable</b>
<b>62: Culverts</b>	<b>N - Not Applicable</b>

Structure Type	
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	90.9 SD/FO 2 - FO
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
533: Foundn: Abut Rear	4 - Spread Footing
536: Foundn: Pier 1	4 - Spread Footing
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	
90: Routine Insp.	Months 12 02/26/2021
92A: FCM Insp.	N
92B: Dive Insp.	N
92C: Special Insp.	N
92D: UBIT Insp.	N
92E: Drone Insp.	
Inspector	Persanyi,Andrea

Inspector: Andrea Persanyi  
 Inspection Date: 02/26/2021

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
<b>12 - Reinforced Concrete Deck</b>	3 - Mod.	23422	sq. ft.	20572	2300	550	0
	CS 2: transverse cracks, some leaching, mottled areas, several full depth repairs CS 3: approximately 550+ sf of spalls & delams throughout, one full depth repair with void around metal plate in bay 7 span 2.						
521 - Concrete Protective Coating		19008	sq. ft.	0	18993	15	0
	CS 2: map cracks throughout. concrete patch in SB lane #3. minor delams. CS 3: approximately 10 SF of asphalt patches between lanes #2 & #3 near forward, 5 SF shallow spalls along exjts.						
<b>107 - Steel Open Girder/Beam</b>	3 - Mod.	2940	ft.	2860	60	20	0
	CS 2: rusted areas over traffic CS 3: rusted section loss near beam ends 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.	50600	2300	20	0
	CS 2: faded areas CS 3: surface rust with blistering & peeling paint, mainly to lower flanges, beam ends.						
<b>205 - Reinforced Concrete Column</b>	3 - Mod.	6	each	5	1	0	0
	CS 2: C1=10 SF delam.						
<b>215 - Reinforced Concrete Abutment</b>	3 - Mod.	161	ft.	153	8	0	0
	CS 2: cracks, some leaching.						
<b>234 - Reinforced Concrete Pier Cap</b>	3 - Mod.	72	ft.	72	0	0	0
<b>305 - Assembly Joint without Seal</b>	3 - Mod.	128	ft.	117	8	2	1
	CS 2: a few gouges, thru cracks & broken welds have been repaired. CS 3: forward-left sidewalk cover plate bent up with rusting thru holes. joints leak in several locations with debris on abutment seats.						
<b>311 - Movable Bearing</b>	3 - Mod.	20	each	12	8	0	0
	CS 2: minor traverse movement to fascia bearings without keeper plates, some rust.						
<b>313 - Fixed Bearing</b>	3 - Mod.	10	each	10	0	0	0
<b>321 - Reinforced Concrete Approach Slab</b>	3 - Mod.	3200	sq. ft.	3010	190	0	0
	Note: paved over with asphalt. sealed cracks along rear exjt.						
<b>331 - Reinforced Concrete Bridge Railing</b>	3 - Mod.	596	ft.	515	80	1	0
	CS 2: cracks, a few rust stains, scaling, CS 3: spall to outside left rail at forward exjt.						

Inspector: Andrea Persanyi  
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**Element Inspection**

<b>815 - Drainage</b>	3 - Mod.	2	each	0	0	2	0
CS 3: two scuppers along left curb plugged & downspout at pier plugged at ground.							
<b>830 - Abutment Backwall</b>	3 - Mod.	161	ft.	128	30	3	0
CS 2: long cracks. rust stains. CS 3: a few delams & spalls with exposed rebar. deterioration in top of forward backwall under curb in bay 1. Some beams into forward & rear backwalls.							

ODOT District: 12

## CUY-00090-0909\_(1808125)

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  
Agency

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: CUY

1.34 MI E OF JCTSR237

Resp A:

Insp

Resp B:

Inspector

Persanyi,Andrea

Inspection Date

02/26/2021

Reviewer Seif,Youssef

### Inspector Comments - Deck and Approach

#### Deck

##### Floor/Slab (SF)

Spalls forming in bay 7 over EB lanes #1 & #3 and in bay 3 over WB lane #3.

##### Curbs/Sidewalk (LF)

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

#### Approach

##### Approach Wearing Surface (EA)

Minor asphalt break up along rear exjt.

##### 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 rear-right, spalls to forward-left & rear-left concrete approach rails.

##### Signs (EA)

No bridge end markers.

##### Sign Supports (EA)

Arrow sign over warren rd sb lane #3 has tilted in reducing vertical clearance.

### Inspector Comments - General Appraisal

#### Superstructure

##### 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)

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

**Substructure**

**Slope Protection (EA)**

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

**Culvert**

**Inspector Comments - Waterway**

**Waterway Adequacy**

**Channel**

**Scour Critical**