

# Ohio Bridge Inspection Summary Report

**CUY-00010-1594 (1801473)**

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

5A: Inventory Route 1 00010  
 7: Facility On SR 10  
 6: Feature Ints COLUMBUS RD  
 9: Location APPROX 700FT E ABBEY RD  
 Lat, Lon 41.485222 ,-81.700622

## Condition

**58: Deck** **4 - Poor Condition**  
 58.01 Wearing Surface 5 - Fair (10-15%, 2% asphalt patch)  
 58.02 Joint N- Not Applicable  
**59: Superstructure** **5 - Fair Condition**  
 59.01 Paint & PCS 7 - Good (1-5% corr.)  
**60: Substructure** **5 - Fair Condition**  
**61: Channel** **N**  
**61.01 Scour** **N - Not Applicable**  
**62: Culverts** **N - Not Applicable**  
**67.01 GA** **5**

## Structure Type

43: Bridge Type 2 - Concrete continuous  
 07 - Frame (except frame culverts)  
 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 N - None  
 414B: Joint Type 2 N - None  
 108A: Wearing Surface 3 - Latex Concrete or similar  
 additive  
 N- Not Applicable

## Appraisal

Sufficiency Rating 76.3 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 12/29/1993  
 423: WS Thick (in) 1.2  
 482: Protective Coating B - Epoxy - Urethane sealers  
 483: PCS Date  
 453: Bearing Type 1 N - None  
 455: Bearing Type 2 N - None  
 528: Foundn: Abut Fwd 0 - Other  
 533: Foundn: Abut Rear 0 - Other  
 536: Foundn: Pier 1 0 - Other  
 539: Foundn: Pier 2 N - None (Such as most Culverts)

## Geometric

48: Max Span Length (ft) 66.0  
 49: Structure Length (ft) 95.0  
 52: Deck Width, Out-To-Out (ft) 100.0  
 424: Deck Area (sf) 9500  
 32: Appr Roadway Width (ft) 72.0  
 51: Road Width, Curb-Curb (ft) 72.0  
 50A: Curb/SW Width: Left (ft) 12  
 50A: Curb/SW Width: Right (ft) 12  
 34: Skew (deg) 25  
 33: Bridge Median 0 - No median  
 54B: Min Vert Underclearance (ft) 12.25  
 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 1930 / 1993  
 42A: Service On 5 - Highway-pedestrian  
 42B: Service Under 1 - Highway, with or w/out  
 pedestrian  
 28A: Lanes on 06  
 28B: Lanes Under 04  
 19: Bypass Length 1  
 29: ADT 13835  
 109: % Trucks (%) 7

## 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 07/01/2013  
 63: Analysis Method 0 - Field evaluation and documented  
 engineering judgment

## Inspections

90: Routine Insp. *Months* 12 04/04/2022  
 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 Gerstenslager,Michael

Inspector: Michael Gerstenslager

Structure Number: 1801473

Inspection Date: 04/04/2022

Facility Carried: SR 10

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.  | 9690           | sq. ft. | 5875              | 2400              | 950               | 465               |
|   | <p>CS2 - Leaching cracks. Leaching cracks to edge of floor.</p> <p>CS3 - Mottled areas with stalactites. Spalls with exposed rebar. Crumbling concrete to edge of floor.</p> <p>CS4 - Approx 80 sf hole cut in north utility chamber with form work visible under sidewalk. Spalls with 3+ bars of rebar exposed.</p> |                |         |                   |                   |                   |                   |
| 510 - Wearing Surfaces                            |   | 6840           | sq. ft. | 4700              | 1725              | 400               | 15                |
|   | <p>CS2 - Many cracks. A few small sound concrete patches.</p> <p>CS3 - Some delams. Cracks, as wide as 1/16".</p> <p>CS4 - Asphalt patches along center. A few other asphalt patches.</p>   |                |         |                   |                   |                   |                   |
| <b>110 - Reinforced Concrete Open Girder/Beam</b> | 3 - Mod.  | 1235           | ft.     | 939               | 50                | 245               | 1                 |
|   | <p>CS2 - Leached cracks. Note: collision scrapes to bottoms of beams 10, 11 &amp; 12 have been sealed over.</p> <p>CS3 - Spalls with exposed rebar with rusting section loss (sealed over).</p> <p>CS4 - Broken stirrup rebar on beam 11 over east sidewalk.</p>  |                |         |                   |                   |                   |                   |
| 521 - Concrete Protective Coating                 |   | 105300         | sq. ft. | 105225            | 0                 | 0                 | 75                |
|   | <p>Note: concrete is epoxy-urethane sealed.</p> <p>CS4 - Unprotected concrete.</p>  |                |         |                   |                   |                   |                   |
| <b>205 - Reinforced Concrete Column</b>           | 3 - Mod.  | 26             | each    | 0                 | 25                | 1                 | 0                 |
|   | <p>CS2 - Many cracks and delams. Spalls, a few areas of exposed rebar with rusting section loss. Honeycombed areas.</p> <p>CS3 - P2C11 has 12sf of spalls with exposed rebar and 5 sf delam.</p>  |                |         |                   |                   |                   |                   |
| <b>215 - Reinforced Concrete Abutment</b>         | 3 - Mod.  | 221            | ft.     | 131               | 40                | 50                | 0                 |
|   | <p>CS2 - Cracks and shallow small spalls.</p> <p>CS3 - Delams. Many spalls with exposed rebar.</p>  |                |         |                   |                   |                   |                   |
| <b>234 - Reinforced Concrete Pier Cap</b>         | 3 - Mod.  | 221            | ft.     | 193               | 27                | 0                 | 1                 |
|   | <p>CS2 - Cracks.</p> <p>CS3 - Some delams. Spalls, some with exposed rebar.</p> <p>CS4 - Pier cap at bay 4 over west sidewalk is thru cracked.</p>  |                |         |                   |                   |                   |                   |

Inspector: Michael Gerstenslager

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**Bridge Inspection Report**

**Element Inspection**

|  |  |      |         |      |     |    |   |
|--|--|------|---------|------|-----|----|---|
| <b>321 - Reinforced Concrete Approach Slab</b>   | 3 - Mod.   | 3600 | sq. ft. | 3425 | 175 | 0  | 0 |
|  | Note: rear edge of rear slab irregularly shaped.                       |      |         |      |     |    |   |
|  | CS2 - Cracks.  |      |         |      |     |    |   |
| <b>331 - Reinforced Concrete Bridge Railing</b>  | 3 - Mod.   | 190  | ft.     | 50   | 120 | 20 | 0 |
|  | CS2 - Scaling. Cracks.   |      |         |      |     |    |   |
|  | CS3 - Heavy deterioration to large concrete posts. Spalls.             |      |         |      |     |    |   |
| <b>815 - Drainage</b>                            | 3 - Mod.   | 2    | each    | 2    | 0   | 0  | 0 |
|  | CS2 -  |      |         |      |     |    |   |
| <b>840 - Approach Slab: Termination or Joint</b> | 3 - Mod.   | 144  | ft.     | 0    | 84  | 60 | 0 |
|  | CS2 - Many cracks.   |      |         |      |     |    |   |
|  | CS3 - Asphalt patches some rough. Potholes. Areas of asphalt break up. |      |         |      |     |    |   |
| <b>901 - Vertical Clearance Sign</b>             | 3 - Mod.   | 2    | each    | 2    | 0   | 0  | 0 |
|  | Vertical clearance signs posted: 13' 4" NB & 12' 3" SB.                |      |         |      |     |    |   |

ODOT District: District 12

## CUY-00010-1594\_(1801473)

Date Built: 07/01/1930

Major Maint: 01 - State Highway Agency

Facility Carried: SR 10

Traffic On: 5 - Highway-pedestrian

Rehab Date: 12/29/1993

Routine Maint: 04 - City or Municipal Highway  
Agency

Feature Inters: COLUMBUS RD

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

Insp. 01 - State Highway Agency

FIPS Code: 16000 - CLEVELAND (CUY county)

Location: DISTRICT 12

APPROX 700FT E ABBEY RD

Resp A:

Insp

Resp B:

Inspector

Gerstenslager,Michael

Inspection Date 04/04/2022

Reviewer Seif,Youssef

### Inspector Comments - Deck and Approach

#### Deck

##### **Floor**

Spalls forming in bay 2&3 over SB traffic, beam 3 over NB traffic, Bay 3 over NB traffic, bay 4 over NB & SB traffic, bay 7 over NB traffic, bay 7 diaphragm near center line, bay 8 over SB traffic, beam 11 over SB parking lane, bays 2, 3 & 7 over west sidewalk.

##### **Curbs/Sidewalk**

Minor concrete deterioration along steel curb plates.

#### Approach

##### **Approach Wearing Surface**

Many cracks, some wide. Asphalt patches & breaking up areas.

##### **Approach Embankment**

Forward-right approach walk is cracked & heaved up as much as 1".

##### **Approach Guardrail**

Spalls & heavy deterioration to concrete posts.

##### **Signs**

No bridge end markers.

### Inspector Comments - General Appraisal

#### Superstructure

##### **Diaphragm/X-Frames**

Leached cracks. Some spalls. Spall forming over traffic on center diaphragm in bay 7.

##### **Utilities**

Note: underdeck lighting.

#### Substructure

##### **Wingwalls**

Cracks. Spalls with exposed rebar.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical