

STATE OF OHIO
BRIDGE INSPECTION REPORT

Structure File Number: 1814109

Inventory Bridge Number: CUY-00480-0446 _(1814109)

COLUMBIA RD over IR-480 (COLUMBIA)

Inspection Type: Routine

Inspection Date: 04/15/2020

District: 12

County: 18 - Cuyahoga

Place Code (FIPS): 56882

Bridge Type:

4 - Steel continuous

02 - Stringer/Multi-beam or Girder

N- Not Applicable

Type of Service:

5 - Highway-pedestrian

Maintenance Responsibility:

01 - State Highway Agency

Inspection Responsibility:

01 - State Highway Agency

Routine Maintenance Responsibility:

04 - City or Municipal Highway Agency

Lead Inspector: Gerstenslager,
Michael

Reviewed by: Youssef Seif

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Inspector: Michael Gerstenslager

Inspection Date: 04/15/2020

Structure Number: 1814109

Facility Carried: COLUMBIA RD

Bridge Inspection Report

Location Map

Inspector: Michael Gerstenslager

Inspection Date: 04/15/2020

Structure Number: 1814109

Facility Carried: COLUMBIA RD

Bridge Inspection Report

Executive Summary

ODOT District: 12

CUY-00480-0446_(1814109)

Date Built: 07/01/1980

Major Maint: 01 - State Highway Agency

Facility Carried: COLUMBIA RD

Traffic On: 5 - Highway-pedestrian

Rehab Date:

Routine Maint: 04 - City or Municipal Highway Agency

Feature Inters: IR-480 (COLUMBIA)

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

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 56882 - NORTH OLMSTED (CUY county)

Location: CUY

1.0 MI. E. OF JCT. SR-252

Insp Resp B:

National Bridge Inventory

Status 0 - ND Sufficiency Rating 77.4

| Identification | | Inspections | |
|---|--|---|--|
| (1) State Code | 395 - Ohio | (90) Inspection Date | 04/15/2020 |
| (8) Structure File Number (SFN) | 1814109 | (91) Designated Inspection Frequency | 12 |
| (7) Facility Carried | COLUMBIA RD | (92) Critical Feature Inspection | (93) CFI Date |
| (208) Route on the Bridge | 41 - Municipal | A. Fracture Critical Detail | N |
| (2) Highway Agency District | 12 | B. Underwater Inspection | N |
| (3) County Code | 18 - Cuyahoga | C. Other Special Inspection | N |
| (209) Interstate Mile Marker | | D.01 Snooper Inspection | N |
| (201) Special Designation | | E.01 Drone Inspection | |
| (4) Place Code (FIPS) | 56882 - NORTH OLMSTED (CUY county) | Condition | |
| (5) Inventory Route | | (58) Deck | 5 - Fair Condition (minor section loss) |
| (A) Record Type On/Under Always "On" | 1: Route carried "on" the structure | (58.01) Wearing Surface | 6 - Satisfactory (1-10% distress) |
| (B) Route Signing Prefix (Highway System) | 5 - CITY STREET | (58.02) Expansion Joint | 6- Satisfactory (isolated evidence of leaking) |
| (C) Designated Level of Service (Highway Designation) | 1 - MAINLINE | (59) Superstructure | 7 - Good Condition (some minor problems) |
| (D) Route Number | COLUM | (59.01) Protective Coating System (PCS) | 6 - Satisfactory (5-10% surface area rust) |
| (E) Directional Suffix | 0 - NOT APPLICABLE | (60) Substructure | 7 - Good Condition (some minor problems) |
| (6) Features Intersected | IR-480 (COLUMBIA) | (61) Channel & Channel Protection | N - Not Applicable |
| (9) Location | 1.0 MI. E. OF JCT. SR-252 | (61.01) Scour | N - Not Applicable |
| (11) Milepoint | 00.806 | (62) Culvert | N - Not Applicable |
| (12) Base Highway Network | Inventory Route is not on the Base Network | (67.01) General Appraisal | 7 - Good Condition (some minor problems) |
| (13A) LRS Inventory Route | | | |
| (13B) Subroute Number | | | |
| (16) Latitude | 41.41495 Degrees | | |
| (17) Longitude | -81.89360 Degrees | | |
| (16.01) Latitude - Ohio | 41.414948312 | | |
| (17.01) Longitude - Ohio | -81.893602409 | | |
| (98A) Border Bridge State Code | | | |
| (98B) Border Bridge State Percent Responsibility | | | |
| (99) Border Bridge Struct No. | | | |

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Rehab Date:

Routine Maint: 04 - City or Municipal Highway Agency

Feature Inters: IR-480 (COLUMBIA)

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

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 56882 - NORTH OLMSTED (CUY county)

Location: CUY

1.0 MI. E. OF JCT. SR-252

Insp Resp B:

Structure Type and Material

Load Rating and Posting

(43) Main Structure Type

A. 4 - Steel continuous

B. 02 - Stringer/Multi-beam or Girder

C. N- Not Applicable

(31) Design Load 6 - HS 20+Mod

(63) Operating Rating Method 7 - Allowable Stress (AS) rating reported by rating factor (RF) method using MS18 loading.

(64) Operating Rating Factor 1.3

(44) Approach Type

A. 0 - Other

B. 00 - Other

C. N- Not Applicable

(65) Inventory Rating Method 7 - Allowable Stress (AS) rating reported by rating factor (RF) method using MS18 loading.

(66) Inventory Rating Factor 1

(41) Structure Open, Posted, or Closed to Traffic A - Open

(45) Number of Spans in Main Unit 4

(70) Bridge Posting 5 - Equal to or above legal loads

(46) Number of Approach Spans 0

(70.01) Date Posted

(107) Deck Structure Type 1 - Concrete Cast-in-Place

(70.02) Posted Sign Type

(107.01)

(70.03) Posted Weight

(108B) External Deck Protection N - NA

(108C) Internal Deck Protection 1 - Epoxy Coated Reinforcing

(422) Wearing Surface Date 07/01/1980

(108A) Wearing Surface Type 1 - Monolithic Concrete (concurrently placed with structural deck)

Appraisal

(108A.01) N- Not Applicable

(67) Structural Evaluation 7 - Better than present minimum criteria

(423) Wearing Surface Thickness 1.2 in

(68) Deck Geometry 4 - Meets minimum tolerable limits

(483) Protective Coating System Date 01/01/1994

(69) Underclearances, Horizontal and Vertical 5 - Somewhat better than minimum adequacy

Age of Service

(27) Year Built 1980

(71) Waterway Adequacy N - Not Applicable

(263) Date Built 07/01/1980

(72) Approach Roadway Alignment 8 - Equal to present desirable criteria

(106) Year Reconstructed

(36) Traffic Safety Feature

(264) Major Reconstruction Date

(42) Type of Service
On 5 - Highway-pedestrian

A. Bridge Railings: 1 - Meets acceptable standards

B. Transitions: 0 - Does not meet acceptable standards/safety feature is required

C. Approach Guardrail 0 - Does not meet acceptable standards/safety feature is required

D. Approach Guardrail Ends 0 - Does not meet acceptable standards/safety feature is required

Under 1 - Highway, with or w/out pedestrian

(28) Lanes On 02 Under 06

(113) Scour Critical N - Not over waterway

(29) Average Daily Traffic 8771

(30) Year of Average Daily Traffic 2015

(109) Average Daily Truck Traffic Percentage 7

(19) Bypass Detour Length 2

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Insp. Resp A: 01 - State Highway Agency

FIPS Code: 56882 - NORTH OLMSTED (CUY county)

Location: CUY

1.0 MI. E. OF JCT. SR-252

Insp Resp B:

| Classification | | Geometric Data | |
|---|--|---|----------------------------------|
| (112) NBIS Bridge | Yes | (48) Longest Span | 76.0 Ft. |
| (104) Highway System of the Inventory Route | 0 - Structure/Route is NOT on NHS | (49) Structure Length | 273.0 Ft. |
| (26) Functional Classification of Inventory Route | 16 - Urban - Minor Arterial | (50A) Curb/Sidewalk Left Side - Width | 5 Ft. |
| | | (50B) Curb/Sidewalk Right Side - Width | 5 Ft. |
| (100) Strahnet Highway Designation | Not a STRAHNET route | (51) Brdg Roadway Width Curb-to-Curb | 28.0 Ft. |
| (101) Parallel Structure Designation | N - No parallel structure | (52) Deck Width, Out-to-Out | 40.3 Ft. |
| (102) Direction of Traffic | 2-way traffic | (32) Approach Roadway Width | 28.0 Ft. |
| (103) Temporary Structure Design | | (33) Bridge Median | 0 - No median |
| (105) Federal Lands Highways | Not Applicable | (34) Skew | 31 Deg. |
| (110) Designated National Network | Inventory route not on network | (35) Structure Flared | 0 - No flare |
| (20) Toll | 3 - On Free Road | (10) Practical Maximum Vertical Clearance | 99 Ft. |
| (225) Routine Maintenance Responsibility | A. 04 - City or Municipal Highway Agency | (53) Minimum Vertical Clearance Over Bridge Roadway | 99 Ft. |
| | B. | (47) Total Horizontal Clearance (Inventory Route) | 60 Ft. |
| (21) Maintenance Responsibility | 01 - State Highway Agency | (54) Minimum Vertical Under Clearance | B. 16.21 Ft. |
| (21B) Major Maint. Responsibility B | | | A. H - Highway beneath structure |
| (221) Inspection Program Responsibility | A. 01 - State Highway Agency | (56) Minimum Lateral Under Clearance on Left | 10 Ft. |
| | B. | (55) Minimum Lateral Under Clearance on Right | B. 14 Ft. |
| (22) Owner | 01 - State Highway Agency | | A. H - Highway beneath structure |
| (37) Historical Significance | 5 - Not eligible | | |

| Navigation Data | | Proposed Improvements | |
|---|---------------------------------|--|-------|
| (38) Navigation Control | N - Not applicable, no waterway | (75) Type of Work | |
| (39) Nav Vert Clearance | 0.0 Ft. | A. | |
| (40) Nav Horizontal Clearance | 0.0 Ft. | B. | |
| (111) Pier or Abutment Protection | | (76) Length of Structure Improvement (FT) | |
| (116) Minimum Navigation Vertical Clearance, Vertical Lift Bridge | 0.0 Ft. | (94) Bridge Improvement Cost | \$ 0 |
| | | (95) Roadway Improvement Cost | \$ 0 |
| | | (96) Total Project Cost | \$ 0 |
| | | (97) Year of Improvement Cost Estimate | |
| | | (114) Future Average Daily Traffic | 12174 |
| | | (115) Year of Future Average Daily Traffic | 2038 |

Ohio Bridge Inventory

| |
|----------------|
| General |
|----------------|

| | |
|---|--------------------------|
| (203) Bridge Name (Dedicated Name) | |
| (204) Ohio Designated MPO | 08 - NOACA (Cleveland) |
| (205) Route Number Extension | |
| (206) Inventory Preferred Route | NP - Non Preferred Route |
| (5.01) Priority System Code (Inventory Route) | |
| (213) NLF_ID Inventory Route | MCUYMR00000M*C |
| (218) Major Bridge | N - No |
| (220) Inventory Location | CUY |
| (226) Seismic Susceptibility | N - not applicable |
| (227) GASB | Y - Yes |
| (236) Future Traffic Factor | 1.388 |
| (245) Aperture Cards Fabrication | 1 - Yes |
| (246) Aperture Cards Original | 1 - Yes |
| (247) Aperture Cards Repair | 2 - No |
| (248) Original Construction Project Number | 030578 |
| (251) Standard Drawing Number | SD-1-69 |
| (252) Microfilm Reel Number | CUY068 |
| (261) Bridge Remarks | |

CUY-00480-04460-

| | |
|------------------------------|---------------------------------|
| (265) Electric Line Present | Y - Bridge carries this utility |
| (266) Gas Line Present | Y - Bridge carries this utility |
| (269) Sanitary Sewer Present | U - Unknown |
| (306) NBIS Bridge Length | 273 |

| |
|-----------------------------------|
| Inventory Route Clearances |
|-----------------------------------|

| <u>Inventory Route</u> | <u>Cardinal</u> | <u>Non-Cardinal</u> | |
|------------------------------------|-----------------|---------------------|-----|
| (336) Minimum Vertical Clearance | 99 | 0 | ft. |
| (335) Minimum Horizontal Clearance | 60 | 60 | ft. |

Load Rating

| | |
|--|---|
| (717) 2F1 Operating Rating Factor (GVW 15 T) | |
| (720) 3F1 Operating Rating Factor (GVW 23 T) | |
| (723.01) 4F1 Operating Factor (GVW 27 T) | |
| (726.01) 5C1 Operating Rating Factor (GVW 40 T) | |
| (723.02) SU4 Operating Rating Factor (GVW 27 T) | |
| (726.02) SU5 Operating Rating Factor (GVW 31 T) | |
| (732.01) SU6 Operating Rating Factor (GVW 34.75 T) | |
| (732.02) SU7 Operating Rating Factor (GVW 38.75 T) | |
| (735) EV2 Operating Rating Factor (GVW 28.75 T) | |
| (738) EV3 Operating Rating Factor (GVW 43 T) | |
| (734) Ohio Percent Legal | 150 |
| (705) Load Rater First Name | |
| (706) Load Rater Last Name | |
| (707) Load Rater PE Number | 0 |
| (704) Load Rating Date | 07/01/1900 |
| (708) Load Rating Software | 1 - BARS |
| (709) Rating Source | 1 - Plan information available for load rating analysis (Default) |

Inspection Access

| | |
|--|--|
| (92.02) Snooper Inspection Traffic Control | |
| (92.03) Snooper Inspection Est. Crew Hours | |
| (459) Inspection Access | N - The bridge does not include this feature |

| |
|----------------------------|
| Deck & Approach |
|----------------------------|

| | | | |
|--|--|-----------------|--------------|
| (224) Temporary Subdecking | N - No | | |
| (404) Approach Slab Type | 1 - Reinforced Concrete | | |
| (405) Approach Slab Length | 0 | | |
| | 1 | 2 | 3 |
| (406) Bridge Median Type | N - None | N - Non Barrier | N - No Joint |
| (407) Bridge Railing Type | 1 - Reinforced Concrete Parapet | | |
| (408) Composite Deck Code | N - Non-composite Construction | | |
| (419) Expansion Joint with Trough Retrofit 2 | N - No | | |
| (421) Joint Trough (Y/N) | N - No | | |
| (431) Fence | Y - The bridge includes this feature | | |
| (432) Fence Height on Bridge | 0 | | |
| (433) Glare Screen | N - The bridge does not include this feature | | |
| (434) Noise Barrier Walls | N - The bridge does not have Noise Barrier Walls | | |
| (424) Deck Area | 10990.0 | | |
| (427) Left Sidewalk/Curb Material | 1 - Concrete | | |
| (428) Left Sidewalk/Curb Type | 2 - Sidewalk (greater than 2' in width) | | |
| (429) Right Sidewalk/Curb Material | 1 - Concrete | | |
| (430) Right Sidewalk/Curb Type | 2 - Sidewalk (greater than 2' in width) | | |

| |
|---------------------|
| Substructure |
|---------------------|

| | |
|--|-----------------------------|
| (526) Abutment Forward Type | 5 - Stub Gravity |
| (527) Abutment Forward Material Type | 2 - Concrete |
| (528) Abutment Forward - Foundation Type | 4 - Spread Footing |
| (531) Abutment Rear Type | 5 - Stub Gravity |
| (532) Abutment Rear Material Type | 2 - Concrete |
| (533) Abutment Rear - Foundation Type | 4 - Spread Footing |
| (534) Pier 1 (Predominate) Type | 5 - Capped Column |
| (535) Pier 1 (Predominate) Material | 2 - Concrete |
| (536) Pier 1 Type - Foundation Type | 4 - Spread Footing |
| (537) Pier 2 Type | N - None |
| (538) Pier 2 Material | N - None |
| (539) Pier 2 Type - Foundation Type | 0 - Other |
| (547) Slope Protection Type | 2 - Stone (No. 1 Aggregate) |

| |
|-----------------------|
| Superstructure |
|-----------------------|

| | | | |
|--|---|----------|----------|
| (711) Live Load Response | S - Satisfactory | | |
| (468) Hinges/Pins/Hangers Type | N - Not Applicable (structures with no hinges) | | |
| (409) Deck Drainage Type | 3 - Scuppers and downspouts | | |
| (411) Deck Concrete Type | U - Unknown | | |
| | A | B | C |
| (414) Expansion Joint Type | 2 - Sliding Metal Plate Angle | N - None | N - None |
| (301) Horizontal Curve Degree | | | |
| (453) Bearing Device 1, Type | 2 - Rockers & Bolsters | | |
| (455) Bearing Device 2, Type | N - None | | |
| (465) Framing Type | N - None or Not Applicable | | |
| (466) Haunched Girder | N - Bridge does not contain a haunched girder | | |
| (467) Haunched Girder Depth | 0 | | |
| (474) Main Structure System | N - Not Applicable (i.e. Culvert, Beam, Slab, etc.) | | |
| (475) Main Member Type | 1 - Rolled Steel | | |
| (482) Protective Coating System Type | 5 - Paint System OZEU | | |
| (487) Structural Member Steel Type | U - Unknown | | |
| (498) Protective Coating System Surface Area | 0 | | |
| (499) Structural Steel Paint | U - Unknown | | |
| (478) Post Tensioned Main Member Code | N - Bridge is not Post Tensioned | | |

| |
|-----------------------------|
| Culvert and Waterway |
|-----------------------------|

| | | | |
|--------------------------------------|--|--|--|
| (575) Culvert Type | N - Not a Culvert or Rigid Frame | | |
| (578) Culvert Length Inlet_to_Outlet | 0 | | |
| (580) Fill Depth Over Culvert | 0 | | |
| (651) Scenic River | N - Waterway is not classified as Scenic River | | |
| (587) Rise | | | |
| (588) Shape | | | |
| (655) Channel Protection Type | X - Not Applicable | | |
| (663) Stream Velocity | 0.0 | | |
| (672) pH | | | |

Inspector: Michael Gerstenslager

Structure Number: 1814109

Inspection Date: 04/15/2020

Facility Carried: COLUMBIA RD

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. | 10988 | sq. ft. | 9636 | 1000 | 352 | 0 |
| 510 - Wearing Surfaces | | 10920 | sq. ft. | 9055 | 1500 | 365 | 0 |
| 107 - Steel Open Girder/Beam | 3 - Mod. | 1290 | ft. | 1255 | 35 | 0 | 0 |
| 515 - Steel Protective Coating | | 11355 | sq. ft. | 10010 | 1245 | 100 | 0 |
| 205 - Reinforced Concrete Column | 3 - Mod. | 9 | each | 8 | 1 | 0 | 0 |
| 215 - Reinforced Concrete Abutment | 3 - Mod. | 92 | ft. | 77 | 15 | 0 | 0 |
| 234 - Reinforced Concrete Pier Cap | 3 - Mod. | 129 | ft. | 114 | 15 | 0 | 0 |
| 303 - Assembly Joint with Seal | 3 - Mod. | 76 | ft. | 66 | 10 | 0 | 0 |
| 311 - Movable Bearing | 3 - Mod. | 20 | each | 11 | 5 | 4 | 0 |
| 313 - Fixed Bearing | 3 - Mod. | 5 | each | 3 | 2 | 0 | 0 |
| 321 - Reinforced Concrete Approach Slab | 3 - Mod. | 1120 | sq. ft. | 1080 | 20 | 20 | 0 |
| 331 - Reinforced Concrete Bridge Railing | 3 - Mod. | 546 | ft. | 361 | 150 | 35 | 0 |

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Insp. 01 - State Highway Agency

FIPS Code: 56882 - NORTH OLMSTED (CUY county)

Location: CUY

1.0 MI. E. OF JCT. SR-252

Resp A:

Insp

Resp B:

Under Records

Under Record 1

Identification

| | | | |
|---------------------------|-------|-----------------------------|----------------|
| (1) State Code | 395 | (6) Features Crossed | COLUMBIA ROAD |
| (11.01) Milepoint | | (7) Facility Carried | COLUMBIA RD |
| (201) Special Designation | | (8) Structure No. | 1814109 |
| (5A) Roadway On/Under | 2 | (12) Base Highway Network | 0 |
| (5B) Route Type | 1 | (13A) LRS Inventory Route | |
| (5C) Level of Service | 1 | (13B) Subroute Number | |
| (5D) Route Number | 00480 | (213) NLF_ID Under Route | SCUYIR00480**C |
| (5E) Directional Suffix | | (206) Preferred Under Route | |

Age of Service

| | | | |
|------------------------------------|-------|---|------|
| (19) Bypass Detour Length | | (42A) Type of Service On Bridge | 5 |
| (29) Est Average Daily Traffic | 89294 | (42B) Type of Service Under Bridge | 1 |
| (30) Year of Average Daily Traffic | 2016 | (381) Intersected Route Daily Truck Traffic | 4065 |
| | | (109) Average Daily Truck Traffic | 22 |

Geometric Data

| | | | |
|-------------------------------------|-----------------|-------------------------------------|---------------------|
| (10) Min Vert Clearance | 16.5 | (48) Longest Span | 76 |
| (47) Total Horizontal Clearance | 28 | (49) Structure Length | 273 |
| | <u>CARDINAL</u> | | <u>NON-CARDINAL</u> |
| (336A) Minimum Vertical Clearance | 16.499 | (336B) Minimum Vertical Clearance | 16.21 |
| (335A) Minimum Horizontal Clearance | 28 | (335B) Minimum Horizontal Clearance | 0 |

Classification

| | | | |
|--------------------------------|----|---|---|
| (20) Toll | | (102) Direction of Traffic | 2 |
| (26) Functional Classification | 11 | (103) Temp Structure | |
| (209) Interstate Mile Marker | | (104) Highway System of the Under Route | 1 |
| (100) STRAHNET Highway | 1 | (110) Designated National Network | 1 |
| (101) Parallel Highway | N | | |

```
Affected Area : Create Report Section.
Section Name : Channel Bed Measurements
Section Type : ActiveReport
Detailed Message : A SQL exception occurred.  SQL:
select * from tblFileTypes where ft_channel_bed = 1

Exception: Invalid column name 'ft_channel_bed'.
Details:      at
System.Data.SqlClient.SqlConnection.OnError(SqlException exception,
Boolean breakConnection, Action`1 wrapCloseInAction)
    at
Data.SqlClient.TdsParser.ThrowExceptionAndWarning(TdsParserStateObject
stateObj, Boolean callerHasConnectionLock, Boolean asyncClose)
    at System.Data.SqlClient.TdsParser.TryRun(RunBehavior runBehavior,
SqlCommand cmdHandler, SqlDataReader dataStream,
BulkCopySimpleResultSet bulkCopyHandler, TdsParserStateObject
stateObj, Boolean& dataReady)
    at System.Data.SqlClient.SqlDataReader.TryConsumeMetaData()
    at System.Data.SqlClient.SqlDataReader.get_MetaData()
    at
System.Data.SqlClient.SqlCommand.FinishExecuteReader(SqlDataReader ds,
RunBehavior runBehavior, String resetOptionsString, Boolean
isInternal, Boolean forDescribeParameterEncryption, Boolean
shouldCacheForAlwaysEncrypted)
    at
System.Data.SqlClient.SqlCommand.RunExecuteReaderTds(CommandBehavior
cmdBehavior, RunBehavior runBehavior, Boolean returnStream, Boolean
async, Int32 timeout, Task& task, Boolean asyncWrite, Boolean inRetry,
SqlDataReader ds, Boolean describeParameterEncryptionRequest)
    at
System.Data.SqlClient.SqlCommand.RunExecuteReader(CommandBehavior
cmdBehavior, RunBehavior runBehavior, Boolean returnStream, String
method, TaskCompletionSource`1 completion, Int32 timeout, Task& task,
Boolean& usedCache, Boolean asyncWrite, Boolean inRetry)
    at
System.Data.SqlClient.SqlCommand.RunExecuteReader(CommandBehavior
cmdBehavior, RunBehavior runBehavior, Boolean returnStream, String
method)
    at System.Data.SqlClient.SqlCommand.ExecuteReader(CommandBehavior
behavior, String method)
    at InspectTech.Data.ObjectReaderFactory`1.Read() in
BuildAgent1\_work\3\s\src\InspectTech.Data\ObjectReaderFactory.cs:line
115
```


Inspector: Michael Gerstenslager

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Bridge Inspection Report

Pictures

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Bridge Inspection Report

Sketches

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Location: CUY

1.0 MI. E. OF JCT. SR-252

Resp A:

Insp

Resp B:

Summary Recommendations

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Inspector Comments

Deck Summary

Floor/Slab (SF)

A FEW LEACHING CRACKS WITH SOME STALACTITES. LARGE MOTTLED AREA WITH RUST STAINS & STALACTITES IN SPAN 1. 40 SF OF SPALLS THROUGHOUT. A FEW DELAMS.

Bridge Wearing Surface (SF)

CRACKS. SCALING. 20 SF OF DETERIORATING ASPHALT AND CONCRETE PATCHES. DELAMINATED AREAS MAINLY AT REAR. LARGE ASPHALT PATCH IN SB LANE NEAR REAR. OTHER ASPHALT PATCHES.

Curbs/Sidewalk (LF)

CRACKS. DELAMS. MANY SPALLS WITH EXPOSED REBAR. CONCRETE PATCHES.

Bridge Railing (LF)

LEACHING & RUST STAINED CRACKS. MANY DELAMS & SPALLS WITH EXPOSED REBAR TO INSIDE & OUTSIDE OF RAILINGS, SOME LARGE (MOST TO EAST RAIL). COLLISION DAMAGE TO LEFT FENCE POST WITH CRACK AT BASE & TORN FABRIC OVER WB TRAFFIC.

Deck Drainage (EA)

PARTIALLY PLUGGED SCUPPERS. RUSTING SECTION LOSS TO DOWNSPOUTS.

Expansion Joint (LF)

SPALLS WITH SOME ASPHALT PATCHES TO EXJT HEADERS. A FEW MINOR GOUGES TO RISER BAR AT HEADER SPALLS. LOOSE DEBRIS IN JOINTS.

Superstructure Summary

Beams/Girders (LF)

AREAS OF RUSTING SECTION LOSS AT SOME BEAM ENDS.

Diaphragm/X-Frames (EA)

ENDFRAME RUSTING SECTION LOSS WITH THRU HOLE IN FORWARD BAY 1. PACK RUST INDUCED CRACKS TO ENDFRAME GUSSET PLATE WELDS IN REAR BAY 1 AND FORWARD BAYS 1 & 4.

Bearing Devices (EA)

AREAS OF HEAVY RUSTING. PACK RUST.

Protective Coating System (LF)

RUST. PEELING & BLISTERING PAINT. PAINT RUNS.

Fatigue (LF)

WELDED COVER PLATES AT PIERS.

Utilities (LF)

A FEW DISCONNECTED CONDUIT SLEEVES IN BAY 2. AREAS OF RUSTING SECTION LOSS TO HARDWARE. HISTORY OF WATER LEAKING ONTO STRUCTURAL STEEL FROM BEAM 2 AT&T CONDUITS IN SPAN 1.

Complex Bridge Superstructure

ODOT District: 12

CUY-00480-0446_(1814109)

Date Built: 07/01/1980

Major Maint: 01 - State Highway Agency

Facility Carried: COLUMBIA RD

Traffic On: 5 - Highway-pedestrian

Rehab Date:

Routine Maint: 04 - City or Municipal Highway Agency

Feature Inters: IR-480 (COLUMBIA)

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

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 56882 - NORTH OLMSTED (CUY county)

Location: CUY

1.0 MI. E. OF JCT. SR-252

Insp
Resp B:

Substructure Summary

Abutment Walls (LF)

CRACKS. NOTE: DIRT & DEBRIS AS THICK AS 2" ON BOTH SEATS.

Pier Caps (LF)

A FEW CRACKS. DELAMS.

Pier Columns/Bents (EA)

8 OF 9 COLUMNS FIBER WRAPPED (SOME MINOR TEARS TO FIBER WRAP). MINOR DELAM ON P2C3.

Backwalls (LF)

CRACKS.

Channel Summary

Culvert Summary

ODOT District: 12

CUY-00480-0446_(1814109)

Date Built: 07/01/1980

Major Maint: 01 - State Highway Agency

Facility Carried: COLUMBIA RD

Traffic On: 5 - Highway-pedestrian

Rehab Date:

Routine Maint: 04 - City or Municipal Highway Agency

Feature Inters: IR-480 (COLUMBIA)

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

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 56882 - NORTH OLMSTED (CUY county)

Location: CUY

1.0 MI. E. OF JCT. SR-252

Insp
Resp B:

Waterway Adequacy Summary

Approach Roadway Alignment Summary

Approach Wearing Surface (EA)

CRACKS. ASPHALT PATCHES. A FEW SMALL SPALLS.

Approach Slab (SF)

CRACKS. SOME CONCRETE BREAK UP. 15 SF ASPHALT PATCH IN SB LANE AT REAR. OTHER ROUGH ASPHALT PATCHES. NOTE: APPROACH CURB SPALLS AT EXJTS.

Approach Embankment (EA)

DIAGONAL THRU CRACK IN REAR-RIGHT APPROACH WALK.

Approach Guardrail (EA)

NOTE: BRIDGE ONLY HAS CONCRETE APPROACH RAILS. RUST STAINED CRACKS. DELAMS. SPALL WITH EXPOSED FENCE POST TO OUTSIDE FORWARD-LEFT CONCRETE APPROACH RAIL. OTHER SMALL SPALLS.

Signs (EA)

NO BRIDGE END MARKERS.

Scour Critical Summary

ODOT District: 12

CUY-00480-0446 _(1814109)

Date Built: 07/01/1980

Major Maint: 01 - State Highway Agency

Facility Carried: COLUMBIA RD

Traffic On: 5 - Highway-pedestrian

Rehab Date:

Routine Maint: 04 - City or Municipal Highway Agency

Feature Inters: IR-480 (COLUMBIA)

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

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 56882 - NORTH OLMSTED (CUY county)

Location: CUY

1.0 MI. E. OF JCT. SR-252

Insp Resp B:

Governing Members

Historic Bridge Data

Status

| | | | |
|---|---------|-----------------------------------|------------------|
| (8) Structure File Number (SFN) | 1814109 | (37) Historical Significance Code | 5 - Not eligible |
| (826) NR Recommendation | | (837) Historical District | |
| (840) Historical National Register Listed | | (834) Reviewed By | |
| (850) In Management Plan (2009) | | | |

Identification

| | | | |
|------------------------------|------------------------------------|---------------------------------|-------------------|
| (825) Historical Bridge Name | (7) Facility Carried | COLUMBIA RD | |
| (22) Owner | 01 - State Highway Agency | (6) Feature Intersected | IR-480 (COLUMBIA) |
| (4) Place Code (FIPS) | 56882 - NORTH OLMSTED (CUY county) | (5) Inventory Route | |
| (3) County (Parish) Code | 18 - Cuyahoga | (B) Route Signing Prefix | 5 - CITY STREET |
| (2) Highway Agency District | 12 | (D) Route Number | COLUM |
| (9) Location | 1.0 MI. E. OF JCT. SR-252 | (16) Latitude at Rear Abutment | 41.41495 degrees |
| (883) UTM | | (17) Longitude at Rear Abutment | -81.89360 degrees |

Structural Information

| | | | | |
|------------------------------|---------------------------------|-------------------------------------|-------------------|----------------------------------|
| (43) Main Structure Type | 4 - Steel continuous | 02 - Stringer/ Multi-beam or Girder | N- Not Applicable | (827) Historical Year Built |
| (828) Historical Bridge Type | | | | (836) Historical Data Source |
| (49) Structure Length | 273.0 | ft | | (831) Historical Builder |
| (45) No. of Main Spans | 4 | | | (842) Historical Bridge Designer |
| (407) Bridge Railing Type | 1 - Reinforced Concrete Parapet | | | (106) Year Reconstructed |
| | | | | (829) Previous Inventory Date |

Classification of Service

| | | | |
|---|-----------------------------------|--|---------------|
| (26) Functional Class of Inventory Route | 16 - Urban - Minor Arterial | (29) Average Daily Traffic (ADT) | 8771 |
| (104) Highway System of the Inventory Route | 0 - Structure/Route is NOT on NHS | (30) Year of ADT | 2015 |
| (71) Waterway Adequacy | N - Not Applicable | (109.01) Avg. Daily Truck Traffic (ADTT) | 614 |
| | | (102) Direction of Traffic | 2-way traffic |

Historical Significance

(843) Historical Setting/Context

(844) Historical Physical Description

(845) Historical Integrity

(846) Historical Significant Description

(847) Historical Bridge Remarks

(860) Justification



Capacity

| | | | | | |
|--|------|----|---|--------|----|
| (51) Bridge Rdwy Width Curb-Curb | 28.0 | ft | (66) Inventory Rating Load | 1 | |
| (873) Bridge Rdwy Width Required | | ft | (64) Operating Rating Load | 1.3 | |
| (872) Bridge Rdwy Width Adequare | Y | | (878) Inventory Rating Load - Required | | |
| (32) Approach Rdwy Width | 28.0 | ft | (877) Inventory Rating Load - Adequate | Y | |
| (841) Bridge Wider | N | | (28) Lanes On | 02 | |
| (52) Deck Width Out-Out | 40.3 | ft | (880) Lanes On - Required | | ft |
| (50A) Curb/Sidewalk Left Side - Width | 5 | ft | (879) Lanes On - Adequate | Y- Yes | |
| (50B) Curb/Sidewalk Right Side - Width | 5 | ft | (876) Geometry Adequate | | |
| (10) Minimum Vertical Clearance On, Cardinal | 99 | ft | (871) Alignment/Sight Distance Adeqaute | | |

(874) Conformance Comments

(882) Structural Deficiency Summary

(875) Crash Data

Historic Bridge Management Plan

(853) Historical Management Summary

Preservation Potential

(861) Prudent and Feasible to Leave Bridge in Place

(862) Preservation Potential

(863) Preservation Summary

(864) No Build Alternative Consideration

(881) Rehab Without Adverse Effect

(865) Historic Bypass Information

(866) Other Preservation Options

(867) Preservation Recommendation

(868) Comment Recommendation

(869) Comment Date

(870) Plan Comment

