

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION REPORT

Structure File Number: 1812246

Inventory Bridge Number: CUY 00322 15.340 N

USR322 over CHAGRIN RIV .25 MI W 174#

Inspection Type: Routine

Inspection Date: 10/07/2014

District: 12 Owner: OHIO STATE TRANSPORTATION DEPARTMENT

County: CUYAHOGA Inspection Responsibility: OHIO STATE TRANSPORTATION

DEPARTMENT

Place Code (FIPS): GATES MILLS Maintenance Responsibility: OHIO STATE TRANSPORTATION

DEPARTMENT

Bridge Type: STEEL Lead Inspector: Sutak, Mike

Type of Service: HIGHWAY Reviewed By: Seif, Youssef

STATE OF OHIO DEPARTMENT OF TRANSPORTATION APPROACH INSPECTION

Structure File Number: 1812246 Inventory Bridge Number: CUY 00322 15.340 N Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 81.8 Date Built: 7/1/1939

District: 12 Place Code (FIPS): GATES MILLS USR322 over CHAGRIN RIV .25 MI W 174# Type of Service on: HIGHWAY

APPROACH

| (c6) Approach Summary: | 8 | Recommended: 9 |
|------------------------|---|----------------|
|------------------------|---|----------------|

c1. Approach Wearing Surface (EA)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 2 | 3.9 | 0.1 | | | 1.04 |

A FEW CRACKS.

c2. Approach Slabs (SF)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 0 | 2090 | 110 | 0 | 0 | 1.07 |

CRACKS. LIGHT SCALING.c4. Embankment (EA)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 4 | 4 | | | | 1.00 |

c5. Guardrail (EA)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 0.00 | 4 | 0 | 0 | 0 | 1.00 |

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STATE OF OHIO DEPARTMENT OF TRANSPORTATION APPROACH INSPECTION PHOTOS

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Sufficiency Rating: 81.8 Date Built: 7/1/1939

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STATE OF OHIO DEPARTMENT OF TRANSPORTATION DECK INSPECTION

Structure File Number: 1812246 Inventory Bridge Number: CUY 00322 15.340 N Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

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|---|---|--------|----|
| U | ᆮ | L | n |

| (58) NBIS Deck Summary: | 8 | Recommended: 9 |
|-------------------------|---|----------------|
|-------------------------|---|----------------|

c7.1 Floor/Slab (SF)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 9762.45 | 9274.3 | 488.1 | 0 | 0 | 1.07 |

DIAGONAL CRACKS AT ABUTMENTS, SOME ARE WET.

c7.2 Edge of Floor/Slab (LF)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 300 | 300 | 0 | 0 | 0 | |

c8. Wearing Surface (SF)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 8250 | 7837.5 | 412.5 | | | 1.07 |
| CRACKS. | | | | | |

c9. Curb/Sidewalk/Walkway (LF)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 300.00 | 285 | 15 | | | 1.07 |

LIGHT SCALING.

c10. Median (LF)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 150 | 150 | | | | 1.00 |

>50% OF SEALER HAS PEELED.

c11. Railing (LF)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 300 | 300 | | | | 1.00 |

c12. Drainage (EA)

| Total Quantity | otal Quantity State 1 | | State 3 | State 4 | Transition Rating | |
|----------------|-----------------------|---|---------|---------|-------------------|--|
| 0.00 | 2 | 0 | 0 | 0 | 1.00 | |

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STATE OF OHIO DEPARTMENT OF TRANSPORTATION DECK INSPECTION

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DECK

c13. Expansion Joint (LF)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 0.00 | NaN | 0 | 0 | 0 | |

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STATE OF OHIO DEPARTMENT OF TRANSPORTATION DECK INSPECTION PHOTOS

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Sufficiency Rating: 81.8 Date Built: 7/1/1939

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STATE OF OHIO DEPARTMENT OF TRANSPORTATION SUPERSTRUCTURE INSPECTION

Structure File Number: 1812246 Inventory Bridge Number: CUY 00322 15.340 N Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 81.8 Date Built: 7/1/1939

District: 12 Place Code (FIPS): GATES MILLS USR322 over CHAGRIN RIV .25 MI W 174# Type of Service on: HIGHWAY

SUPERSTRUCTURE

| (59) NBIS Superstructure Summary: 7 | Recommended: 9 |
|-------------------------------------|----------------|
|-------------------------------------|----------------|

c14. Alignment (EA)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 2 | 2 | | | | 1.00 |

c15.1 Beams/Girders (LF)

| Total Quantity | State 1 | State 2 | State 2 State 3 | | Transition Rating | | |
|------------------|-----------------|---------|-----------------|---|-------------------|--|--|
| 0.00 | 1423.5 | 474.5 | 0 | 0 | 1.33 | | |
| SOME AREAS OF RU | JST SECTION LOS | S. | | | | | |

c16. Diaphragm/Cross Frames (EA)

| lotal Quantity | State 1 | State 2 | State 2 State 3 | | Transition Rating | | |
|----------------|---------|---------|-----------------|---|-------------------|--|--|
| 0.00 | 99 | 33 | 0 | 0 | 1.33 | | |

${\tt MINOR\ RUST\ SECTION\ LOSS}.$

c26. Bearing Devices (EA)

| Total Quantity | State 1 | State 2 | State 2 State 3 | | Transition Rating | | |
|----------------|---------|---------|-----------------|---|-------------------|--|--|
| 0.00 | 39 | 0 | 0 | 0 | 1.00 | | |

c30. Protective Coating System (LF)

| Total Quantity State 1 | | State 2 | State 3 | State 4 | Transition Rating |
|------------------------|----|---------|---------|---------|-------------------|
| 0.00 | 20 | 1328.6 | 94.9 | 94.9 | 2.79 |

BEAM ENDS AND FASCIA BEAMS PAINTED. 5% RUSTING. PEELING PAINT.

c32. Fatigue (LF)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 0.00 | NaN | 0 | 0 | 0 | |

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STATE OF OHIO DEPARTMENT OF TRANSPORTATION SUPERSTRUCTURE INSPECTION PHOTOS

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Sufficiency Rating: 81.8 Date Built: 7/1/1939

District: 12 Place Code (FIPS): GATES MILLS USR322 over CHAGRIN RIV .25 MI W 174# Type of Service on: HIGHWAY

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STATE OF OHIO DEPARTMENT OF TRANSPORTATION SUBSTRUCTURE INSPECTION

Structure File Number: 1812246 Inventory Bridge Number: CUY 00322 15.340 N Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 81.8 Date Built: 7/1/1939

District: 12 Place Code (FIPS): GATES MILLS USR322 over CHAGRIN RIV .25 MI W 174# Type of Service on: HIGHWAY

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|-----|----|----|----|----|--------|---|----|---|
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| (60 |) NBIS Substructure Summary | ': 7 | R | Recommended | <u>:</u> 1 | 9 |
|-----|-----------------------------|------|---|-------------|------------|---|
| | | | | | | |

c33. Abutment Walls (LF)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|-----------------------|---------|---------|---------|---------|-------------------|
| 130.17 | 117.2 | 13 | | | 1.14 |

CRACKS. SANDSTONE DETERIORATION. MISSING MORTAR. CONCRETE PATCHES.

c35. Abutment Columns/Bents (EA)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 0.00 | NaN | 0 | 0 | 0 | |

c34. Abutment Caps (LF)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 130.17 | NaN | 0 | 0 | 0 | |

c38. Pier Columns/Bents (EA)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 0.00 | 0.00 | | | | |

c36. Pier Walls (LF)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 65.08 | 61.8 | 3.3 | 0 | 0 | 1.07 |

CRACKS. SCALING.

c37. Pier Caps (LF)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 65.08 | NaN | 0 | 0 | 0 | |

c39. Backwalls (LF)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 130.17 | 130.17 | | | | 1.00 |

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STATE OF OHIO DEPARTMENT OF TRANSPORTATION SUBSTRUCTURE INSPECTION

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SUBSTRUCTURE

c40. Wingwalls (EA)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 0.00 | 3.6 | 0.4 | 0 | 0 | 1.14 |
| CRACKS. | | | | | |

c42. Scour (EA)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 3 | 2.8 | 0.2 | 0 | | 1.10 |

SOME STONE AROUND PIER HAS SHIFTED. WATER DEPTHS WEST OF PIER ARE >6'.

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STATE OF OHIO DEPARTMENT OF TRANSPORTATION SUBSTRUCTURE INSPECTION PHOTOS

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STATE OF OHIO DEPARTMENT OF TRANSPORTATION CHANNEL INSPECTION

Structure File Number: 1812246 Inventory Bridge Number: CUY 00322 15.340 N Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 81.8 Date Built: 7/1/1939

District: 12 Place Code (FIPS): GATES MILLS USR322 over CHAGRIN RIV .25 MI W 174# Type of Service on: HIGHWAY

CHANNEL

(61) NBIS Channel Summary: 5 Recommended: 6

c51. Alignment (LF)

Total Quantity State 1 State 2 State 3 State 4 Transition Rating

200.00 200.00 2.00

RIVER FLOWS TOWARDS REAR ABUTMENT AND INTO EAST FACE OF PIER #1.

c52. Protection (LF)

Total Quantity State 1 State 2 State 3 State 4 Transition Rating

200.00 200.00 2.00

UNEVEN SETTLEMENT OF STONE SLABS NEAR REAR ABUTMENT.

c53. Hydraulic Opening (EA)

Total Quantity State 1 State 2 State 3 State 4 Transition Rating

1 1.00

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STATE OF OHIO DEPARTMENT OF TRANSPORTATION CHANNEL INSPECTION PHOTOS

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STATE OF OHIO DEPARTMENT OF TRANSPORTATION SIGNS/UTILITIES INSPECTION

Structure File Number: 1812246 Inventory Bridge Number: CUY 00322 15.340 N Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

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SIGNS/UTILITIES

(41) Open, Posted or Closed:

c55. Signs (EA)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 0.00 | 2 | 0 | 0 | 0 | 1.00 |

c56. Sign Supports (EA)

| Total Quantity | State 1 | State 2 | State 3 | State 4 | Transition Rating |
|----------------|---------|---------|---------|---------|-------------------|
| 0.00 | NaN | 0 | 0 | 0 | |

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STATE OF OHIO DEPARTMENT OF TRANSPORTATION SIGNS/UTILITIES INSPECTION PHOTOS

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STATE OF OHIO DEPARTMENT OF TRANSPORTATION REVIEW

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