| Inspector: B | anaszak,Ken | | Structure Number | ·: 2801 | .558 | | |
|---|---|----------------------------|--|---|---|--------------------------|--|
| Inspection Date: 0. | 3/09/2023 | | Facility Carried: CHAG | | GRIN RIVER ROAD | | |
| <u>Ohio Bridge Inspe</u> | ction Su | <u>Immary Report</u> | | <u>GEA-</u> | 00422-00 | <u>)26 (2801558)</u> | |
| 2: DistrictDistr 03590 - BAIN ict 12 | BRIDGE TW | P (GEA county) | 5A: Inventory Ro | oute 1 | 00188 | | |
| 21: Major Maint A/B 01 | - State Highw | ay Agency / | 7: Facility On | CHAGRIN | RIVER ROAI | D | |
| 225 Routine Main A/B 02 | County High | way Agency / | 6: Feature Ints | USR 422 A | LT (0026) | | |
| 221 Inspection A/B 01 | State Highw | ay Agency / | 9: Location | .26 MI E G | EAUGA CNT | Y LINE | |
| 220: Inv. Location DISTRI | CT 12 | | Lat, Lon | 41.388078 | | ,-81.38685 | |
| | Condition | 1 | | Str | ucture Typ |)e | |
| 58: Deck | 7 - Good Co | ondition | 43: Bridge T | ype 4 - Ste | el continuou | S | |
| 58.01 Wearing Surface | 7 - Good (19 | % distress) | | 02 - S | tringer/Multi- | beam or Girder | |
| 58.02 Joint | 6- Satisfacto | ory (isolated leaking) | | N- No | t Applicable | 6 - | |
| 59: Superstructure | 6 - Satisfac | tory Condition | 45: Spans M | lain / Approa | ch 4 | | |
| 59.01 Paint & PCS | 4 - Poor PC | S (15-20% corr.) | 107: Deck I | ype | 1 - Concrete | e Cast-in-Place | |
| 60: Substructure | 7 - Good Co | ondition | 408: Compo | | Y - Compos | | |
| 61: Channel | N Not Apr | liaabla | 414A Joint 1 | ype 1 Tuno 2 | 3 - Compres | ssion Seal | |
| 61.01 Scour | N - Not App | | 414D. JOINL | ing Surface | 1 - Monolith | ic Concrete | |
| 62. Cuiverts | Ν - ΝΟΙ ΑΡμ | incapie | TUOA. Wear | ing Sunace | (concurrent deck) | ly placed with structura | |
| 67.01 GA | 6 | | | | N- Not Appl | icable | |
| | Appraisa | I | 422: WS Dat | te | 07/01/1989 | | |
| Sufficiency Rating | 85.5 | SD/FO 2 - FO | 423: WS Th | ick (in) | 2.0 | | |
| 36: Rail, Tr, Gd, Term Std | 1 1 | 1 1 | 482: Protective Coating 483: PCS Date | | 3 - Paint Sy | 3 - Paint System A | |
| 72: Approach Alignment | 8 - Equal to | present desirable criteria | | | 01/01/1989 | | |
| 113: Scour Critical | N - Not over | waterway | 453: Bearing | 453: Bearing Type 1 455: Bearing Type 2 | | eric (Plain) | |
| 71: Waterway Adequacy | N - Not App | licable | 455: Bearing | JIYPE 2 | N - NONE | Place Reinforced | |
| | Geometri | C | | I. Abul Fwu | Concrete Pi | iles (Other diameter) | |
| 48: Max Span Length (ft) | | 69.0 | 533: Foundr | h: Abut Rear | 2 - Cast-in-l | Place reinforced | |
| 49: Structure Length (ft) | | 244.0 | 536: Foundn: Pier 1 2 - Cast-in-Place Reinfo Concrete Piles (Other d | | Place Reinforced iles (Other diameter) | | |
| 52: Deck Width, Out-To-Out | (ft) | 34.0 | 539: Foundr | n: Pier 2 | 0 - Other | | |
| 424: Deck Area (sf) | | 8296 | | onΔ | and Servi | C A | |
| 32: Appr Roadway Width (ft) | | 32.0 | 27: Year Bui | ilt/ 106 Reha | b 1989 | / 0000 | |
| 51: Road Width. Curb-Curb (| (ft) | 31.8 | 42A: Service | a On | 1 - Highwa | av | |
| 50A: Curb/SW Width: Left (ft | :) | 0 | 42B: Service | e Under | 1 - Highwa | ay, with or w/out | |
| 50.A. Curb/SIM Midth. Diabt | (f+) | 0 | 29 A · L anos | on | pedestriar | ١ | |
| | (11) | 0 | 28R: Lanes | Under | 02 | | |
| 34: Skew (deg) | | 0 0 No modion | 19: Bypass I | enath | 3 | | |
| 55. Dhuye weulan | and (ft) | | 29: ADT | Longui | 33720 | | |
| 226A: Min Vert Onderdiearand | rdinal (ft) | 14.00 | 109: % Truc | ks (%) | 12 | | |
| 336B: Min V Clr IP Non-Car | dinal (ft) | 99 | | | | | |
| 578: Culvert Length (ft) | | 0 | | Insp | pections | | |
| | | ~ | 90: Routine | Insp | Months 12 | 03/21/2023 | |
| | and Deature | 10 | 30. Routine | nisp. | 0 | 00/21/2020 | |
| | Load Posti | | 92A FCM In | ISD N | | | |
| 41: Op/Post/Closed | A - Open | | 92A: FCM Ir 92B: Dive In | isp. N sp. N | 0 | | |
| 41: Op/Post/Closed // | <u>-oad Postii</u> A - Open r above legal | loads | 92A: FCM Ir 92B: Dive In 92C: Specia | isp. N sp. N I Insp. N | 0 | | |
| 41: Op/Post/Closed 70: Posting 5 - Equal to o 70.01: Date | Load Postii A - Open r above legal | loads | 92A: FCM Ir 92B: Dive In 92C: Specia 92D: UBIT II | isp. N sp. N IInsp. N nsp. N | 0 0 | | |
| 41: Op/Post/Closed 70: Posting 5 - Equal to o 70.01: Date 70.02: Sign Type | <u>oad Postii</u> A - Open r above legal | loads | 92A: FCM Ir 92B: Dive In 92C: Specia 92D: UBIT Ir 92E: Drone I | isp. N sp. N I Insp. N nsp. N Insp. N | 0 0 0 0 | | |
| 41: Op/Post/Closed 70: Posting 5 - Equal to o 70.01: Date 70.02: Sign Type 734: Percent Legal (%) | <u>oad Postii</u> A - Open r above legal | loads | 92A: FCM Ir 92B: Dive In 92C: Specia 92D: UBIT Ii 92E: Drone I | isp. N sp. N I Insp. N nsp. N Insp. N | | | |

| Inspector: | Banaszak,Ken | Structure Number: | 2801558 |
|------------------|--|-------------------|--------------------|
| Inspection Date: | 03/09/2023 rating factor (RF) method using MS18 loading. | Facility Carried: | CHAGRIN RIVER ROAD |

| Inspector: | Banaszak,Ken | Structure Number: | 2801558 |
|------------------|--------------|-------------------|--------------------|
| Inspection Date: | 03/09/2023 | Facility Carried: | CHAGRIN RIVER ROAD |

| | | | 1 | o 11/1 | | O | |
|--|--|--|---------------------------------|---|--------------------------------|---------------------------------|---------------------|
| | Environment | Quantity | Units | State 1 | State 2 | State 3 | State 4 |
| 12-Reinforced Concrete Deck | 3 - Mod. | 8296 | sq. ft. | 7763 | 500 | 33 | 0 |
| | CS2 - Four sf patched area in bay 1 near collision damage. Some cracks, minor mottled areas at abutments. | | | | | | |
| 805-Wearing Surface - Monolithic Concrete | | 7747 | sq. ft. | 6872 | 875 | 0 | 0 |
| | CS2 - A few cra | icks. Small | spalls a | t ExJt armor. | | | |
| 107-Steel Open Girder/Beam | 3 - Mod. | 976 | ft. | 551 | 350 | 75 | 0 |
| | CS2 - Areas of heat straightene fascia over #2 E CS3 - Rusting s | surface rus ed over #2 a EB. section loss | t mainly and bolt at ends | to lower flan ed splice pla | ges. Left fas te added. Dri | cia over EB h Iled out crack | as been to left |
| 515-Steel Protective Coating | | 7954 | sq. ft. | 0 | 7054 | 700 | 200 |
| | CS2 - Chalking CS3 - Peeling to CS4 - Heat stra to flanges and b | and faded op coat of s ightening d beam ends. | paint thr come are amaged | oughout. eas of paint t I paint expos | hroughout. B ing bare met | listering pain | t. paint failure |
| 205-Reinforced Concrete Column | 3 - Mod. | 6 | each | 2 | 4 | 0 | 0 |
| | CS2- P1C2 5 S P1C1 2 S P3C1- sca P3C2- 4 S | F delam F delam, 1s aling/ shallo SF delam, 1 | of spall w spallin SF spa | ng Il | | - | |
| 521-Concrete Protective Coating | | 670 | sq. ft. | 660 | 0 | 0 | 10 |
| | CS4- not effecti | ve | | | | | |
| 215-Reinforced Concrete Abutment | 3 - Mod. | 69 | ft. | 55 | 4 | 10 | 0 |
| | Rust stained from leaking joint. CS2 - A few vertical cracks, some leaching. CS3 - Spalls at rear B1 and B3. Undermining of slope protection exposes abutment footing at the rear right. | | | | | | |
| 521-Concrete Protective Coating | | 210 | sq. ft. | 205 | 0 | 0 | 5 |
| | CS4- not effecti | ve | | | | | |
| 234-Reinforced Concrete Pier Cap | 3 - Mod. | 103 | ft. | 85 | 15 | 3 | 0 |
| | CS2- A few vertical cracks and transverse at bottoms. Diagonal cracks at cantilevers. CS3- Spall with exposed rebar & delams to left (west) end of P1 cap. Delam at P1 under beam 4. | | | | | | |
| 521-Concrete Protective Coating | | 927 | sq. ft. | 922 | 0 | 0 | 5 |
| | CS4- not effecti | ve | | | | | |
| 300-Strip Seal Expansion Joint | 3 - Mod. | 65 | ft. | 0 | 59 | 6 | 0 |
| | CS2- Cracks an loss. | id spalls to | EXJT he | eaders. Loos | e debris in jo | bint. Minor rus | sting section |

CS3- Both joints allow for moderate leaking. Minor gouges to armor at both ends.

| Inspector: | Banaszak,Ken | Structure Number: | 2801558 |
|------------------|--------------|-------------------|--------------------|
| Inspection Date: | 03/09/2023 | Facility Carried: | CHAGRIN RIVER ROAD |

| | | Total | | Condition | Condition | Condition | Condition | |
|---|--|---------------|-----------|---------------|-----------|-----------|-----------|--|
| | Environment | Quantity | Units | State 1 | State 2 | State 3 | State 4 | |
| 311-Movable Bearing | 3 - Mod. | 16 | each | 0 | 8 | 8 | 0 | |
| 5 | CS2 - Pier bear | ings have s | tart of r | ust to steel. | | | | |
| | CS3- Restraint angle of left bearing at rear abutment is bent up. Restraint angle of left bearing at P1 is missing due to old collision damage. Rusting section loss to abutment bearings. | | | | | | | |
| 313-Fixed Bearing | 3 - Mod. | 4 | each | 0 | 4 | 0 | 0 | |
| <u></u> | CS2 - Start of ru | ust to steel. | | | | | | |
| 321-Reinforced Concrete Approach Slab | 3 - Mod. 1625 sq. ft. 1520 100 5 0 | | | | | | 0 | |
| | CS2 - A few longitudinal cracks, some sealed. | | | | | | | |
| | CS3 - Shallow s | spall at forw | ard. A f | ew small pop | outs. | | | |
| 331-Reinforced Concrete Bridge Railing | 3 - Mod. 488 ft. 458 30 0 0 | | | | | | | |
| | CS2 - A few vertical cracks. Shallow spall to top edge & diagonal cracks to railing above left fascia collision damage. | | | | | | | |
| 521-Concrete Protective Coating | | 3416 | sq. ft. | 3414 | 0 | 0 | 2 | |
| | CS4- not effective | | | | | | | |
| 815-Drainage | 3 - Mod. | 2 | each | 0 | 1 | 1 | 0 | |
| | CS2- Debris in west berm. | | | | | | | |
| 830-Abutment Backwall | 3 - Mod. | 69 | ft. | 40 | 21 | 8 | 0 | |
| | CS2- A few cracks and shallow spalls to underside near ExJts. | | | | | | | |
| | CS3- Spalls wit | h exposed ı | ebar at | forward in ba | ay 3. | | | |
| 521-Concrete Protective Coating | | 207 | sq. ft. | 199 | 0 | 0 | 8 | |
| | CS4- not effective | | | | | | | |

| Inspec Inspec | ctor: ction Date: | Banaszak,Ken 03/09/2023 | Stru Faci | icture Number: lity Carried: | 2801558 CHAGRIN RIVI | ER ROAD |
|--------------------------------|--------------------------------------|----------------------------|----------------------------|---|-------------------------|--|
| ODOT District: Major Majnt: | District 12 01 - State Highway Ag | ency Facility Carried: | GEA-00422-0026 | _(2801558) | | Date Built: 07/01/1989 Rehab Date: |
| Routine Maint: | 02 - County Highway A | Agency Feature Inters: | USR 422 ALT (0026) | Traffic Under: 1 - Highway, pedestrian | with or w/out | Insp. 01 - State Highway Agency Resp A: |
| FIFS Code. | Inspect | or Banaszak,Ken | Inspection Date 03/09/2023 | .26 MI E GEAUGA CN Reviewer Seil | f,Youssef | Resp B: |
| | | lu an a star | | als and Amma | | |

Inspector Comments - Deck and Approach

Deck

<u>Floor</u>

Approach

Approach Wearing Surface

Cracks, most are sealed. Large asphalt patches.

Approach Embankment

Erosion that runs into & under both upper corners of rear slope protection.

Approach Guardrail

Post rot. Missing spacer at forward left. Collision scrapes. Both rear concrete approach rails tip out as much as 1/2"

<u>Signs</u>

No bridge end markers.

Inspector Comments - General Appraisal

Superstructure

Superstructure Alignment

Left fascia is warped from heat straightening. Lower flange of left fascia is bowed up from collision damage.

Beams

Note: Bolted plate repairs added to lower flanges of left fascia & beam 2 over EB traffic.

Diaphragm/X-Frames

Rusting section loss throughout (heavy to endframes).

<u>Fatigue</u>

Welded moment plates at piers.

Substructure

Inspector: Banaszak,Ken 03/09/2023 Inspection Date:

Structure Number: 2801558 Facility Carried:

CHAGRIN RIVER ROAD

Slope Protection

Rear-right abutment footing is exposed due to undermining of slope. Undermining extends under grout filled bags as far as 8'. Rear-left has some undermining. Note: Abutment footing founded on piles.

<u>Culvert</u>

Inspector Comments - Waterway

Waterway Adequacy

<u>Channel</u>

Scour Critical