

Bridge Inspection Report

A1533
US 62 Fulton Co.
over
WOLF CREEK



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

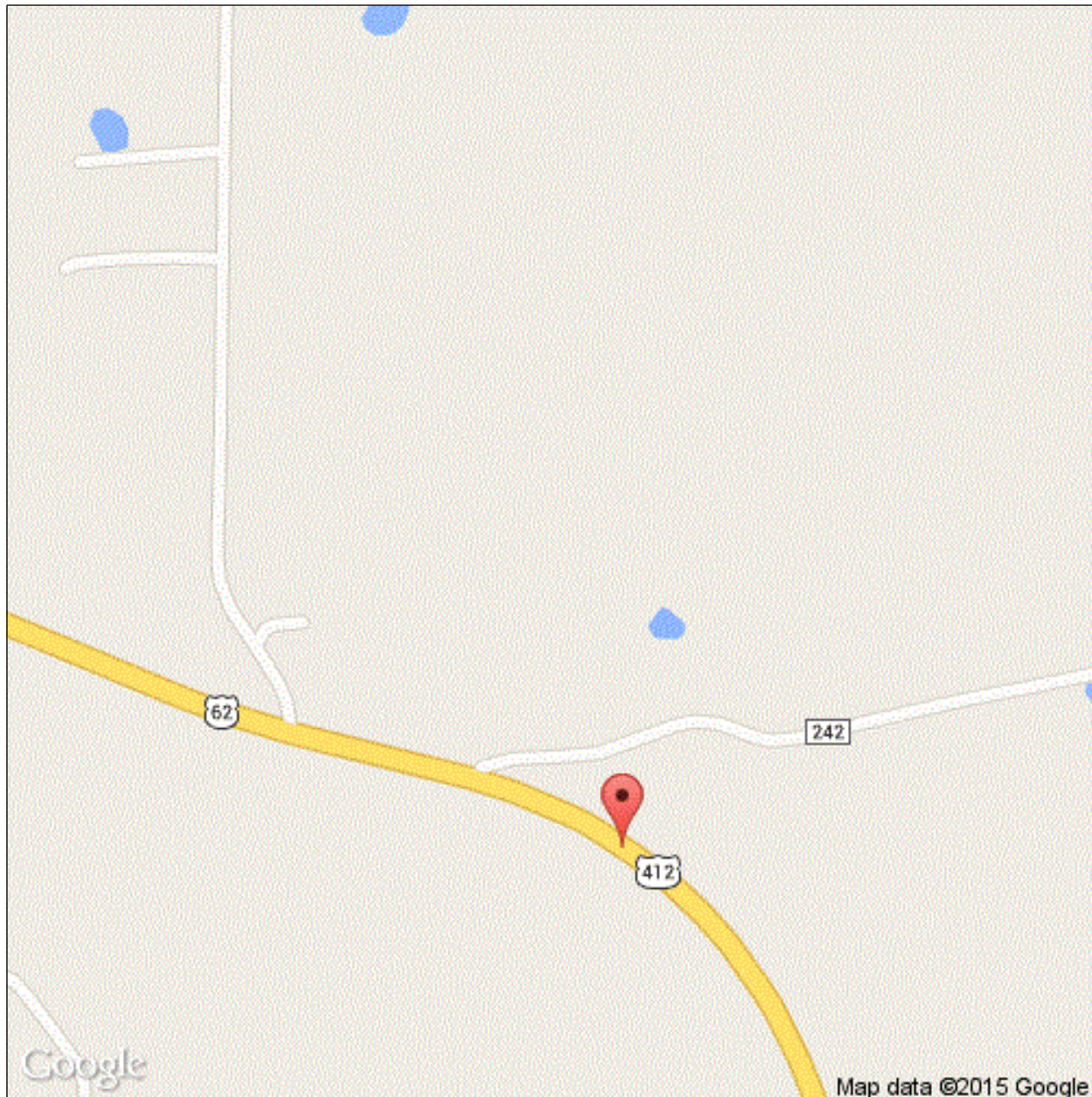
Inspection Date:

Structure Number: A1533

Facility Carried: US 62 Fulton Co.

Bridge Inspection Report

Location Map



Latitude: 36.3538619199128

Longitude: -91.77844736441801

Inspector:

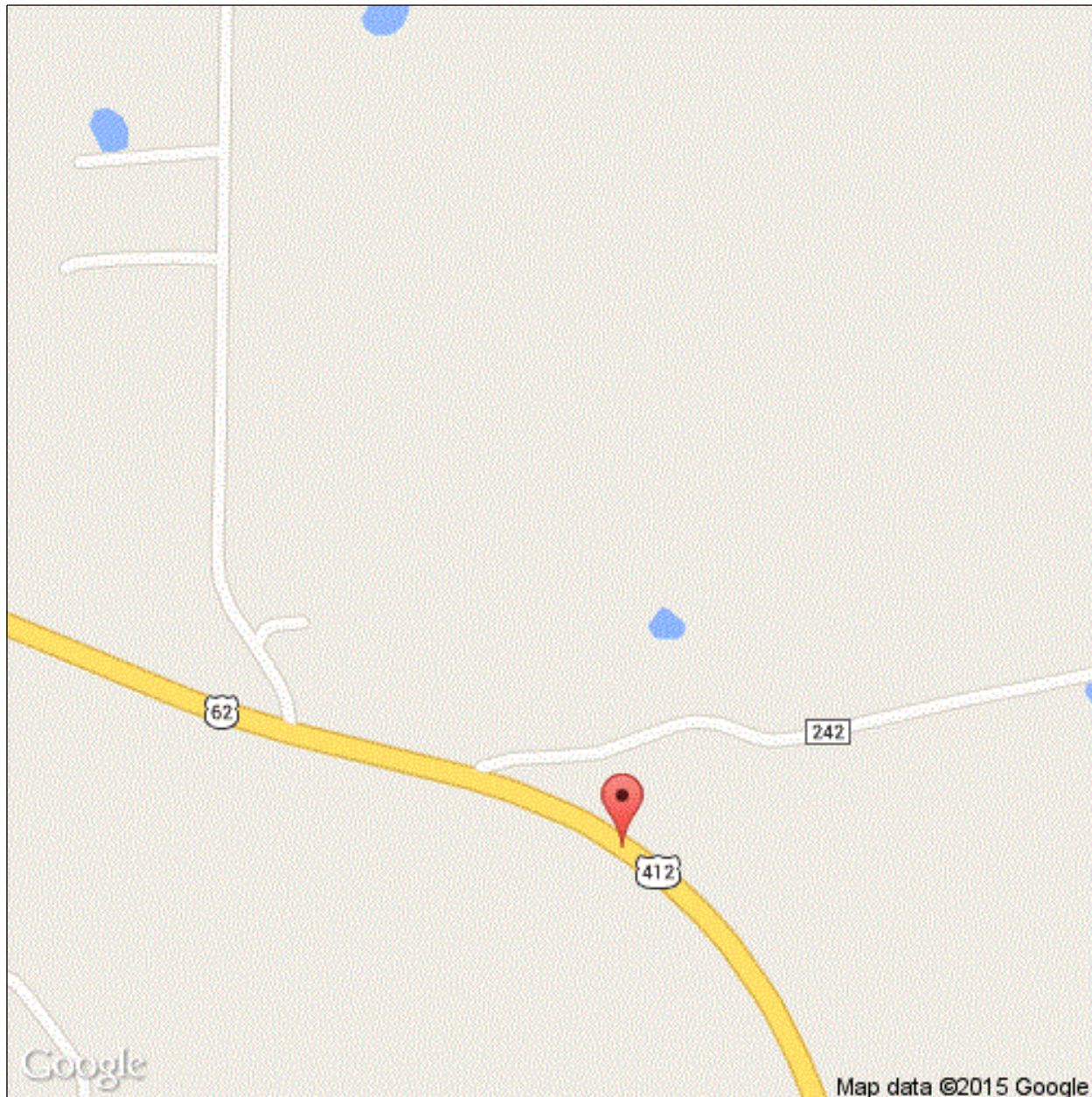
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Location Map



Latitude: 36.3538619199128

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Bridge Inspection Report

Executive Summary

Log Mile looking Southeast.

Job Number: 5417

Inspector:

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Bridge Inspection Report

National Bridge Inventory

| IDENTIFICATION | | INSPECTIONS | |
|---|--|---|-----------------------|
| (1) STATE CODE | 056 - Arkansas | (90) INSPECTION DATE | 03/11/2019 |
| (8) STRUCTURE NUMBER | A1533 | (91) DESIGNATED INSPECTION FREQUENCY | 24 |
| (5) INV. ROUTE (ON/UNDER) | 1 2 1 62 0 | (92) CRITICAL FEATURE INSPECTION | (93) CFI DATE |
| (2) HIGHWAY AGENCY | 05 (3) COUNTY CODE 049 | A. FRACTURE CRITICAL DETAIL | N |
| (4) PLACE CODE | 00000 | B. UNDERWATER INSPECTION | N |
| (6) FEATURES INTERSECTED | WOLF CREEK | C. OTHER SPECIAL | N |
| (7) FACILITY CARRIED | US 62 Fulton Co. | | |
| (9) LOCATION | 2.89 MI E JCT SH 9 & 62 | | |
| (11) MILEPOINT 2.889 | (12) BASE HIGHWAY NETWORK 1 | | |
| (13A) LRS INVENTORY ROUTE | 0000062130 (13B) SUBROUTE NUMBER 00 | | |
| (16) LATITUDE 36.3538619199128 | (17) LONGITUDE -91.77844736441801 | | |
| (98A) BORDER BRIDGE CODE | | | |
| PERCENT RESPONSIBILITY | (99) BORDER BRIDGE STRUCT | | |
| STRUCTURE TYPE AND MATERIAL | | CONDITION | |
| (43) STRUCTURE TYPE, MAIN | | (58) DECK | 6 |
| A) KIND OF MATERIAL/DESIGN: 1 - Concrete | | (59) SUPERSTRUCTURE | 6 (60) SUBSTRUCTURE 5 |
| B) TYPE OF DESIGN/CONSTR: 01 - Slab | | (61) CHANNEL & CHANNEL PROTECTION | 7 (62) CULVERT N |
| (44) STRUCTURE TYPE, APPROACH SPANS | | | |
| A) KIND OF MATERIAL/DESIGN: 0 - Other | | | |
| B) TYPE OF DESIGN/CONSTR: 00 - Other | | | |
| (45) NUMBER OF SPANS IN MAIN 4 | (46) NUMBER OF APPROACH 0 | | |
| (107) DECK STRUCTURE TYPE 1 | (108A) WEARING SURFACE 6 | | |
| (108B) DECK MEMBRANE 0 | (108C) DECK PROTECTION 0 | | |
| AGE OF SERVICE | | LOAD RATING AND POSTING | |
| (27) YEAR BUILT 1955 | (106) YEAR RECONSTRUCTED 0000 | (31) DESIGN LOAD | 4 |
| (42) TYPE OF SERVICE ON 1 | UNDER 5 | (63) METHOD USED TO DETERMINE OPERATING RATING | 1 |
| (28) LANES ON 02 | UNDER 00 | (64) OPERATING RATING | 45.0 |
| (29) AVERAGE DAILY TRAFFIC 4700 | (19) BYPASS DETOUR LENGTH 24 | (65) METHOD USED TO DETERMINE INVENTORY RATING | 1 |
| (30) YEAR OF AVERAGE DAILY TRAFFIC 2014 | | (66) INVENTORY RATING | 27.0 |
| (109) AVERAGE DAILY TRUCK TRAFFIC 1 | | (70) BRIDGE POSTING | 5 |
| | | (41) STRUCTURE OPEN/POSTED/CLOSED | A |
| GEOMETRIC DATA | | APPRAISAL | |
| (48) LENGTH OF MAX SPAN (ft.) 25 | (49) STRUCTURE LENGTH (ft.) 100 | (67) STRUCTURAL EVALUATION | 5 |
| (50) CURB/SIDEWALK WIDTHS (ft.) LEFT 1.5 | RIGHT 1.5 | (68) DECK GEOMETRY | 3 |
| (51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) | 25.9 | (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL | N |
| (52) DECK WIDTH, OUT-TO-OUT (ft.) | 29.8 | (71) WATERWAY ADEQUACY | 8 |
| (32) APPROACH ROADWAY WIDTH (ft.) | 34.1 | (72) APPROACH ROADWAY ALIGNMENT | 7 |
| (33) BRIDGE MEDIAN 0 | (34) SKEW (DEG.) 0 | (36) TRAFFIC SAFETY FEATURE | |
| (35) STRUCTURE FLARED 0 | (10) INV RTE, MIN VERT CLEAR (ft.) 99.99 | 36A) BRIDGE RAILINGS: | 0 |
| (47) TOTAL HORIZONTAL CLEARANCE (ft.) | 25.9 | 36B) TRANSITIONS: | 0 |
| (53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) | 99.99 | 36C) APPROACH GUARDRAIL: | 1 |
| (54) VERTICAL UNDER CLEARANCE (ft.) | N 0 | 36D) APPROACH GUARDRAIL ENDS: | 1 |
| (55) LATERAL UNDER CLEARANCE RIGHT (ft.) | N 99.9 | (113) SCOUR CRITICAL BRIDGES | 8 |
| (56) MIN LATERAL UNDER CLEARANCE (ft.) | 0 | SUFFICIENCY RATING | 47.8 STATUS 2 |
| PROPOSED IMPROVEMENTS | | CLASSIFICATION | |
| (75A) TYPE OF WORK PROPOSED 31 | (75B) WORK DONE BY 1 | (112) NBIS BRIDGE LENGTH | Y |
| (76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) | 127.0 | (104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE | 1 |
| (94) BRIDGE IMPROVEMENT COST (\$) | 0 | (26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE | 02 |
| (95) ROADWAY IMPROVEMENT COST (\$) | 235 | (100) STRAHNET HIGHWAY DESIGNATION | 0 |
| (96) TOTAL PROJECT COST | 560 | (101) PARALLEL STRUCTURE DESIGNATION | N |
| (97) YEAR OF IMPROVEMENT COST ESTIMATE | 2002 | (102) DIRECTION OF TRAFFIC | 2 |
| (114) FUTURE ADT 5200 | (115) YEAR OF FUTURE ADT 2028 | (103) TEMP STRUCTURE | |
| | | (105) FEDERAL LANDS HIGHWAYS | 0 |
| | | (110) DESIGNATED NATIONAL NETWORK | 1 |
| | | (20) TOLL | 3 |
| | | (21) MAINTENANCE RESPONSIBILITY | 01 |
| | | (22) OWNER | 01 |
| | | (37) HISTORICAL | 5 |
| | | NAVIGATION DATA | |
| | | (38) NAVIGATION CONTROL | 0 |
| | | (111) PIER OR ABUTMENT PROTECTION | 1 |
| | | (39) NAV VERT CLEARANCE (ft.) | 0 |
| | | (116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.) | 0 |
| | | (40) NAV HORIZONTAL CLEARANCE (ft.) | 0 |

Inspector:

Structure Number: A1533

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Facility Carried: US 62 Fulton Co.

Bridge Inspection Report

Element Inspection

| | Environment | Total Quantity | Units | Condition State 1 | Condition State 2 | Condition State 3 | Condition State 4 |
|---|-------------|----------------|---------|-------------------|-------------------|-------------------|-------------------|
| 38 - Reinforced Concrete Slab | 1- Ben. | 2980 | sq. ft. | 2764 | 184 | 32 | 0 |
| Areas of Left & Right curb have deteriorated and are spalling with severe section loss with exposed rebar. Efflorescent cracking, spalling & areas of delamination to soffit @ all spans. Longitudinal cracking to soffit @ all spans. Asphalt overlay has severe cracking with areas of patched potholes. | | | | | | | |
| 1080 - Delamination/Spall/Patched Area | | 16 | | 0 | 16 | 0 | 0 |
| 1090 - Exposed Rebar | | 32 | | 0 | 0 | 32 | 0 |
| 1120 - Efflorescence/Rust Staining | | 68 | | 0 | 68 | 0 | 0 |
| 1130 - Cracking (RC and Other) | | 100 | | 0 | 100 | 0 | 0 |
| 510 - Wearing Surfaces | | 2600 | sq. ft. | 14 | 0 | 2586 | 0 |
| 3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces) | | 50 | | 0 | 0 | 50 | 0 |
| 3220 - Crack (Wearing Surface) | | 2536 | | 0 | 0 | 2536 | 0 |
| 205 - Reinforced Concrete Column | 1- Ben. | 6 | each | 0 | 2 | 4 | 0 |
| All columns have cracking, some have efflorescence & rust. | | | | | | | |
| 1120 - Efflorescence/Rust Staining | | 2 | | 0 | 0 | 2 | 0 |
| 1130 - Cracking (RC and Other) | | 4 | | 0 | 2 | 2 | 0 |
| 215 - Reinforced Concrete Abutment | 1- Ben. | 76 | ft. | 71 | 1 | 4 | 0 |
| Few minor spalls to Abutment 2. Spall with rebar exposed with no section loss @ Abutment 1. | | | | | | | |
| 1080 - Delamination/Spall/Patched Area | | 4 | | 0 | 0 | 4 | 0 |
| 1090 - Exposed Rebar | | 1 | | 0 | 1 | 0 | 0 |
| 234 - Reinforced Concrete Pier Cap | 1- Ben. | 90 | ft. | 0 | 0 | 90 | 0 |
| Cracking with areas of heavy scaling with efflorescence to all caps. Spalls & cracking with 7' of rebar exposed to cap at Bent 2. All caps have severe map cracking and efflorescence with some spalling at ends. | | | | | | | |
| 1080 - Delamination/Spall/Patched Area | | 6 | | 0 | 0 | 6 | 0 |
| 1090 - Exposed Rebar | | 7 | | 0 | 0 | 7 | 0 |
| 1120 - Efflorescence/Rust Staining | | 62 | | 0 | 0 | 62 | 0 |
| 1130 - Cracking (RC and Other) | | 15 | | 0 | 0 | 15 | 0 |
| 306 - Other Joint | 1- Ben. | 78 | ft. | 0 | 0 | 78 | 0 |
| Joints cannot be inspected due to asphalt overlay. | | | | | | | |
| 2350 - Debris Impaction | | 78 | | 0 | 0 | 78 | 0 |

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Element Inspection

| | | | | | | | |
|--|---|-----|---------|-----|-----|-----|-----|
| 330 - Metal Bridge Railing | 1- Ben. | 200 | ft. | 100 | 100 | 0 | 0 |
| | Corrosion to Left bridge rail. 4 concrete post on Right side has large spalls with rebar exposed @ bottom. | | | | | | |
| 1000 - Corrosion | | 100 | | 0 | 100 | 0 | 0 |
| 515 - Steel Protective Coating | | 600 | sq. ft. | 300 | 100 | 100 | 100 |
| 3440 - Effectiveness (Steel Protective Coatings) | | 300 | | 0 | 100 | 100 | 100 |

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Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 2

Description

Inspector:

Inspection Date:

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Bridge Inspection Report

Pictures

PHOTO 2

Description

PHOTO 3

Description

Inspector:

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Bridge Inspection Report

Sketches

Inspector:

Inspection Date:

Structure Number: A1533

Facility Carried: US 62 Fulton Co.

Bridge Inspection Report

Maintenance Needs

Date Reported: 03/06/2017

Priority: D - Routine

Work Code: Repair

Deficiency Description:

All spans

Heavy scaling &/ or spalling to all curbs.

Left curb has 10' of rebar exposed.

Heavy spalling with rebar exposed to bottom of concrete posts at Span 2.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Spalls to left curb.

Stage: Open



PHOTO 2 Description

Inspector:

Inspection Date:

Structure Number: A1533

Facility Carried: US 62 Fulton Co.

Bridge Inspection Report

Maintenance Needs

Stage: Open



PHOTO 3 Description

Stage: Assigned



PHOTO 4 Description All spans
Heavy scaling &/ or spalling to all curbs.
Left curb has 10' of rebar exposed.
Heavy spalling with rebar exposed to
bottom of concrete posts at Span 2.

Stage: Assigned



PHOTO 5 Description All spans
Heavy scaling &/ or spalling to all curbs.
Left curb has 10' of rebar exposed.
Heavy spalling with rebar exposed to
bottom of concrete posts at Span 2.

Inspector:

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Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 03/06/2017

Priority: C - Important

Work Code: Repair

Deficiency Description:

All caps have heavy cracking, scaling & spalling.
Cap at Bent 2 has spalls with 7' of rebar exposed.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Bent 2 cap

Stage: Assigned



PHOTO 2 Description Typical of all caps, cracking, scaling, & spalling with some rebar exposed. (Bent 2.)

Inspector:

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Bridge Inspection Report

Maintenance Needs

Stage: Assigned



| | | |
|---------|-------------|---|
| PHOTO 3 | Description | Typical of all caps, have cracking, scaling, spalling with some rebar exposed. (Bent 1.) |
|---------|-------------|---|

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 03/06/2017

Priority: C - Important

Work Code: Repair

Deficiency Description:

Spalls with rebar exposed to deck below @ Span 1 & 2.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned



PHOTO 1 Description Span 2 soffit.

Stage: Assigned



PHOTO 2 Description Span 1 has spalls with rebar exposed to soffit.

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Maintenance Needs

Stage: Assigned



PHOTO 3 Description Spans 2 has Spalls with rebar exposed to Soffit.

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Bridge Inspection Report

Maintenance Needs

Date Reported: 03/06/2017

Priority: D - Routine

Work Code: Repair

Deficiency Description:

All bents have vertical cracks, scaling and some efflorescence to right columns.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Right column at Bent 1.

Stage: Assigned



PHOTO 2 Description All bents have vertical cracks, scaling and some efflorescence to Right columns.

Inspector:

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Stage: Assigned



PHOTO 3 Description All bents have vertical cracks, scaling and some efflorescence to right columns.
(Bent 2)