



Safe & Sound =

Missouri Department of Transportation
Bridge Inspection Report

DISTRICT : KC COUNTY : JACKSON A5249

KC

GENERAL STRUCTURE INFORMATION

| | | | | |
|--|-----------------------------------|--|------------------------------|---|
| STRUCTURE NUMBER : A5249 4167 | STRUCTURE STATUS : A-OPEN | MAINTENANCE DISTRICT : KC | MAINTENANCE COUNTY : JACKSON | PLACE CODE : 38000 KANSAS CITY CITY |
| DISTRICT : KC | DIRECTION OF TRAFFIC : 2-WAY TRAF | OWNED BY : MODOT | MAINTAINED BY : MODOT | INSPECTORS : JERRY GOODMAN, RICHARD KINGERY (STATE) |
| COUNTY : JACKSON | STRUCTURE CLASS : STATBR | FUNCTIONAL CLASSIFICATION : MINOR ARTERIAL | | INSPECTION DATE : 10/25/2011 |
| FACILITY CARRIED : CST GRANDVIEW RD S | DEFICIENT CODE : | LANES ON STRUCTURE 2 | | INSPECTION FREQUENCY : 24 |
| CURB TO CURB : 38 Ft. 9.6 In. | SUB AREA : 7C32 | LANES UNDER STRUCTURE : 12 | | LATITUDE : 38 56 19.25 (DMS) |
| STRUCTURE LENGTH : 352 FEET | YEAR BUILT : 1994 | BEGINNING COMPASS DIRECTION : EAST | | LONGITUDE : 94 32 42.02 (DMS) |
| FEATURE INTERSECTED : IS 435 | RECONSTRUCTION YEAR 0 | ENDING COMPASS DIRECTION : WEST | | SCOUR EVALUATION TYPE : |

POSTING INFORMATION

ADVANCE SIGNING

| | | | |
|---------------------------------|------------------------------|---------------------|-------------|
| APPROVED POSTING CATEGORY : S-1 | LIMITS : NO POSTING REQUIRED | NO POSTING REQUIRED | SIGN TYPE : |
| FIELD POSTING CATEGORY : S-1 | LIMITS : NO POSTING REQUIRED | NO POSTING REQUIRED | PROBLEM : |
| POSTING PROBLEM : | | DIRECTION : | DIRECTION : |
| COMMENTS : | | | |

FACILITY CARRIED INFORMATION

| | | | |
|--|--|--------------------------------------|----------|
| (ITEM 29) AVERAGE DAILY TRAFFIC : 2192 | (ITEM 30) YEAR OF AVERAGE DAILY TRAFFIC : 2013 | PERMITTED VERTICAL CLEARANCE : 18'0" | IS 435 N |
| (ITEM 53) VERTICAL CLEARANCE OVER DECK : | DATE : | PERMITTED VERTICAL CLEARANCE : 17'1" | IS 435 S |

OTHER INSPECTION INFORMATION

| | | | | SPECIAL INFORMATION | | | |
|--------------|-------------|--------------|-------------|---------------------|---------------------------------|-------------|------------|
| NBI : | FREQUENCY : | NBI : | FREQUENCY : | NBI : | NO | FREQUENCY : | 48 |
| PIN : | DATE : | PIN : | DATE : | PIN : | NO | DATE : | 08/24/2011 |
| CATEGORY : | | CATEGORY : | | CATEGORY : | SEMI DEEP-BEARING AREA | | |
| METHODS : | | METHODS : | | METHODS : | LADDER | | |
| INSPECTORS : | | INSPECTORS : | | INSPECTORS : | LARRY DIAZ | | |
| COMMENTS : | | COMMENTS : | | COMMENTS : | | | |
| | | | | NBI : | NO | FREQUENCY : | 99 |
| | | | | PIN : | NO | DATE : | 08/29/2012 |
| | | | | CATEGORY : | QUALITY ASSURANCE | | |
| | | | | METHODS : | | | |
| | | | | INSPECTORS : | PAT MARTEN | | |
| | | | | COMMENTS : | FHWA QA REVIEW WITH KEN FOSTER. | | |

PROGRAM NOTES

| | | | |
|-----------------|---------------|---------------|----------------|
| PROGRAM YEAR : | PROJECT NO. : | LETTING MONTH | LETTING YEAR : |
| COMMENTS : | | | |
| PROGRAM ITEMS : | | | |

| | | | |
|--|--|---|--|
| GENERAL COMMENTS : (25') SEMI-DEEP - (152'-152') CONT COMP PL GDR - (22') SEMI-DEEP SPANS | | | |
| RATINGS : (ITEM 58) DECK RATING : 7-GOOD CONDITION 11/07/2011 | (ITEM 59) SUPERSTRUCTURE RATING : 8-VERY GOOD CONDITION 01/26/2006 | (ITEM 60) SUBSTRUCTURE RATING : 7-GOOD CONDITION 08/31/2012 | |
| COMMENTS : TRANS CRACKS | COMMENTS : | COMMENTS : VERTICAL CRACKING IN FACE OF SEMI-DEEP ABUTS. | |

SUMMARY COMPONENTS

| | | | | |
|---------------------------|-----------------|-------|---------------|---------------------|
| MAIN SERIES 1 | CONTINUOUS SPAN | STEEL | PLATE GIRDERS | NUMBER OF SPANS : 2 |
| TOTAL NUMBER OF SPANS : 2 | | | | |

RAILING RATINGS :

| | | |
|---------------------------------|---------------------------|-------------|
| (ITEM 36A) BRIDGE RAILING : | 1 MEETS CURRENT STANDARDS | COMMENT S : |
| (ITEM 36B) TRANSITION RAILING : | 1 MEETS CURRENT STANDARDS | COMMENT S : |
| (ITEM 36C) APPROACH RAILING : | 1 MEETS CURRENT STANDARDS | COMMENT S : |
| (ITEM 36D) RAIL END TREATMENT : | 0 DOESNT MEET CURRNT STND | COMMENT S : |
| (ITEM 36A) BRIDGE RAILING : | | |

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| | | | |
|--|---------------------|----------------------|-----------------------------------|
| COMPONENT : BRIDGE RAILING (ITEM 36B) TRANSITION RAILING : | REINFORCED CONCRETE | SAFETY BARRIER CURB | DIRECTION : BOTH |
| COMPONENT : TRANSITION RAILING (ITEM 36C) APPROACH RAILING : | GALVANIZED STEEL | THRIE BEAM TO W-BEAM | DIRECTION : ALL |
| COMPONENT : APPROACH RAILING (ITEM 36D) RAIL END TREATMENT : | GALVANIZED STEEL | W-BEAM | DIRECTION : ALL |
| COMPONENT : RAIL END TREATMENT APPROACH PAVEMENT : | GALVANIZED STEEL | BREKAWAY SYSTEM | MANUFACTURE : BCT DIRECTION : ALL |
| COMPONENT : APPROACH PAVEMENT | REINFORCED CONCRETE | TIED SLAB | DIRECTION : BOTH |

DECK / RAILING ELEMENTS

(ITEM 58) OVERALL CONDITION RATING : 7-GOOD CONDITION

COMMENT S : TRANS CRACKS

DECK COMPONENTS

| | | | |
|---------------------------------|---------------------|-------------------------|--|
| MAIN SPANS 1 | | | |
| COMPONENT : DECK | REINFORCED CONCRETE | CAST-IN-PLACE-P/C FORMS | |
| CONDITION : TRANSVERSE CRACKS | THROUGHOUT | MANY | |
| CONDITION : LONGITUDINAL CRACKS | THROUGHOUT | FEW | |
| CONDITION : REFLECTIVE CRACKS | OVER PANEL | MANY | |
| MAIN SPANS 2 | | | |
| COMPONENT : DECK | REINFORCED CONCRETE | CAST-IN-PLACE-P/C FORMS | |
| CONDITION : TRANSVERSE CRACKS | THROUGHOUT | FEW | |
| CONDITION : LONGITUDINAL CRACKS | THROUGHOUT | LARGE | |
| CONDITION : REFLECTIVE CRACKS | OVER PANEL | MANY | |

DRAINAGE COMPONENTS

| | | | |
|----------------------|------------------|-------------|--|
| DRAINAGE 0 | | | |
| COMPONENT : DRAINAGE | GALVANIZED STEEL | FLOOR DRAIN | |

EXPANSION DEVICES

| | | | |
|------------------------------------|-------------|------------------|--------------------------|
| ABUTMENT 1 | | | |
| COMPONENT : CLOSED EXPANSION JOINT | ELASTOMERIC | COMPRESSION SEAL | OVERALL CONDITION : GOOD |
| ABUTMENT 3 | | | |
| COMPONENT : CLOSED EXPANSION JOINT | ELASTOMERIC | COMPRESSION SEAL | OVERALL CONDITION : GOOD |

PROTECTIVE COMPONENTS

| | | | | |
|---------------------------------------|----------------|-------------------|--------------------------|---------------------|
| MAIN SERIES 1 | | | | |
| COMPONENT : WEARING SURFACE | PLAIN CONCRETE | MONOLITHIC | | |
| COMPONENT : DECK PROTECTION | EPOXY POLYMER | COATED REBAR | | |
| COMPONENT : MEMBRANE | NOTAPPLICABLE | NONE | | |
| COMPONENT : SECONDARY DECK PROTECTION | LIQUID SEALANT | INTERNALLY SEALED | MANUFACTURE : STAR MACRO | YEAR APPLIED : 2009 |

RAILING COMPONENTS

| | | | |
|--------------------------------|---------------------|----------------------|--|
| BRIDGE RAILING 0 | | | |
| COMPONENT : BRIDGE RAILING | REINFORCED CONCRETE | SAFETY BARRIER CURB | |
| COMPONENT : TRANSITION RAILING | GALVANIZED STEEL | THRIE BEAM TO W-BEAM | |
| COMPONENT : APPROACH RAILING | GALVANIZED STEEL | W-BEAM | |
| COMPONENT : RAIL END TREATMENT | GALVANIZED STEEL | BREKAWAY SYSTEM | |

SUPERSTRUCTURE ELEMENTS

(ITEM 59) OVERALL CONDITION RATING : 8-VERY GOOD CONDITION

| | | | | |
|---|---------------------------------|-----------------------------|-----------------------------------|------------------------------------|
| MAIN SERIES 1 | CONTINUOUS SPAN | STEEL | PLATE GIRDERS | NUMBER OF SPANS : 2 |
| APPROACH ROADWAY WIDTH : 40 FOOT 0 INCH | CURB TO CURB : 38 FOOT 9.6 INCH | OUT TO OUT : 41 FOOT 6 INCH | LEFT CURB WIDTH : 0 FOOT 7.2 INCH | RIGHT CURB WIDTH : 0 FOOT 7.2 INCH |
| MAIN SPANS 1 | CONTINUOUS SPAN | COMPOSITE STEEL | PLATE GIRDERS | LENGTH : 152 FOOT 9 INCH |
| MAIN SPANS 2 | CONTINUOUS SPAN | COMPOSITE STEEL | PLATE GIRDERS | LENGTH : 152 FOOT 9 INCH |
| TOTAL NUMBER OF SPANS 2 | | | | WEATHERING IND : |

SUBSTRUCTURE ELEMENTS

(ITEM 60) OVERALL CONDITION RATING : 7-GOOD CONDITION

COMMENT S : VERTICAL CRACKING IN FACE OF SEMI-DEEP ABUTS.

| | | | |
|-------------------|---------|---------------------|-----------|
| ABUTMENT 1 | LABEL : | REINFORCED CONCRETE | SEMI-DEEP |
|-------------------|---------|---------------------|-----------|

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|---------------------------------|---|-------------------------------|--|---------------------|------------------|-------------------------|
| LENGTH : 47 FOOT 11 INCH | | LEFTADVAN SKEW : 30 DEGREES 0 | | | | |
| BEAM CAP | | | | REINFORCED CONCRETE | CAST-IN-PLACE | |
| CONDITION : VERTICAL CRACKS | | RANDOM | | MODERATE | | |
| CONDITION : RUST STAINS | | FRONT FACE | | MINOR | | |
| CONDITION : HONEY COMBS | | THROUGHOUT | | MINOR | | |
| COLUMN | | | | REINFORCED CONCRETE | CAST-IN-PLACE | |
| PILING | | | | STEEL | H-SHAPE | |
| TURNED BACK WINGS | | | | REINFORCED CONCRETE | CAST-IN-PLACE | |
| CURTAIN WALL | | | | REINFORCED CONCRETE | CAST-IN-PLACE | |
| APPROACH BEAM | | | | REINFORCED CONCRETE | CAST-IN-PLACE | |
| SLAB | | | | REINFORCED CONCRETE | CAST-IN-PLACE | |
| CONDITION : LONGITUDINAL CRACKS | | THROUGHOUT | | LARGE | | |
| FOOTING | | | | REINFORCED CONCRETE | SPREAD | |
| BACKWALL | | | | REINFORCED CONCRETE | CAST-IN-PLACE | |
| CONDITION : VERTICAL CRACKS | | RANDOM | | FINE | | |
| EXPANSION BEARING | | | | ELASTOMERIC | PLAIN NEOPRENE | OVERALL CONDITION: FAIR |
| CONDITION : OTHER | | THROUGHOUT | | NOT APPLICABLE | | |
| COMMENTS : STARTING TO DEBOND | | | | | | |
| CLOSED EXPANSION JOINT | | | | ELASTOMERIC | COMPRESSION SEAL | OVERALL CONDITION: GOOD |
| BENT | 2 | LABEL : | | REINFORCED CONCRETE | | MULTIPLE COLUMN |
| LENGTH : 46 FOOT 0 INCH | | LEFTADVAN SKEW : 30 DEGREES 0 | | | | |
| BEAM CAP | | | | REINFORCED CONCRETE | CAST-IN-PLACE | |
| COLUMN | | | | REINFORCED CONCRETE | CAST-IN-PLACE | |
| FOOTING | | | | REINFORCED CONCRETE | H-PILE | |
| EXPANSION BEARING | | | | ELASTOMERIC | PLAIN NEOPRENE | OVERALL CONDITION: |
| | | | | | | REINFORCED CONCRETE |
| | | | | | | SEMI-DEEP |
| ABUTMENT | 3 | LABEL : | | | | |
| LEFTADVAN SKEW : 30 DEGREES 0 | | LENGTH : 47 FOOT 11 INCH | | | | |
| BEAM CAP | | | | REINFORCED CONCRETE | CAST-IN-PLACE | |
| CONDITION : VERTICAL CRACKS | | RANDOM | | MANY | | |
| COLUMN | | | | REINFORCED CONCRETE | CAST-IN-PLACE | |
| PILING | | | | STEEL | H-SHAPE | |
| TURNED BACK WINGS | | | | REINFORCED CONCRETE | CAST-IN-PLACE | |
| CONDITION : VERTICAL CRACKS | | THROUGHOUT | | FINE | | |
| CURTAIN WALL | | | | REINFORCED CONCRETE | CAST-IN-PLACE | |
| APPROACH BEAM | | | | REINFORCED CONCRETE | CAST-IN-PLACE | |
| SLAB | | | | REINFORCED CONCRETE | CAST-IN-PLACE | |
| CONDITION : LONGITUDINAL CRACKS | | THROUGHOUT | | LARGE | | |
| COMMENTS : PLUS MAP CRACKING | | | | | | |
| FOOTING | | | | REINFORCED CONCRETE | SPREAD | |
| BACKWALL | | | | REINFORCED CONCRETE | CAST-IN-PLACE | |
| CONDITION : VERTICAL CRACKS | | RANDOM | | MODERATE | | |
| EXPANSION BEARING | | | | ELASTOMERIC | PLAIN NEOPRENE | OVERALL CONDITION: FAIR |
| CONDITION : OTHER | | THROUGHOUT | | NOT APPLICABLE | | |
| COMMENTS : STARTING TO DEBOND | | | | | | |
| CLOSED EXPANSION JOINT | | | | ELASTOMERIC | COMPRESSION SEAL | OVERALL CONDITION: GOOD |

MISCELLANEOUS ITEMS

1 MEETS CURRENT STANDARDS
 COMMENTS : TRANS CRACKS
 COMMENTS : VERTICAL CRACKING IN FACE OF SEMI-DEEP ABUTS.
 COMMENTS : CURVE ON SOUTH END REQUIRES MINOR SPEED REDUCTION.
CHANNEL PROTECTION (ITEM 61) CHANNEL CONDITION RATING : N-NOT APPLIC NO WATRWAY
SCOUR CONDITION (ITEM 113) OVERALL SCOUR CONDITION RATING : N-NOT APPLIC NOT WATERW
WATERWAY ADEQUACY (ITEM 71) WATERWAY ADEQUACY RATING : NOT APPLICABLE
APPROACH ROADWAY (ITEM 72) APPROACH ROADWAY ALIGNMENT RATING : 6-SATISFACTORY
SLOPE PROTECTION
 PLAIN CONCRETE PAVEDSLOPE BOTH

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UTILITY ATTACHMENTS

STRUCTURAL SIGN MOUNTED
COMMENTS : LANE ENDS SIGN

STRUCTURE PAINT DETAILS

| | | | | | |
|-------------------------|------|-------------------------|-------------------------|---------------------------|-----|
| OVERALL PAINT CONDITION | GOOD | RUST AMOUNT : | 8=.1% OF SURFACE RUSTED | STEEL TONS : | 132 |
| ORIGINAL PAINT | | CONTRACT REPAINT | | DEPARTMENT REPAINT | |
| PAINT TYPE : | | PAINT TYPE : | E SYSTEM | PAINT TYPE : | |
| NAME : | | NAME : | WATERBASED ZINC | NAME : | |
| PAINT COLOR : | | PAINT COLOR : | GRAY | PAINT COLOR : | |
| PAINT YEAR : | 0 | PAINT YEAR : | 1994 | PAINT YEAR : | 0 |
| MILS : | 0 | MILS : | 6 | MILS : | 0 |
| CREW : | | LAYER : | | DATE : | |

MANUFACTURE :
SURFACE PREPARATION :

WORK

| RESPONSIBILITY | LOCATION | WORK ITEM | PRIORITY | DATE REQUESTED |
|----------------|----------|-----------|----------|----------------|
|----------------|----------|-----------|----------|----------------|

PROGRAM RECOMMENDATIONS