Appendix E:

MoDOT Bridge Inspection Report
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>GENERAL STRUCTURE INFORMATION</td>
<td>ROUTE DESIGNATION INFORMATION</td>
<td></td>
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<tr>
<td>1 State</td>
<td>MISSOURI</td>
<td>5A Record Type</td>
<td>ROUTE CARRIED 'ON' STRUCT</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2 District</td>
<td>CD</td>
<td>5B Route Signing Prefix</td>
<td>IS</td>
<td></td>
<td></td>
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<tr>
<td>3 County</td>
<td>COOPER</td>
<td>5C Designated Level of Service</td>
<td>MAINLINE</td>
<td></td>
<td></td>
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<tr>
<td>8 Federal ID No.</td>
<td>6689</td>
<td>5D Route Number</td>
<td>00070</td>
<td></td>
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<tr>
<td>27 Year Built</td>
<td>1960</td>
<td>5E Directional Suffix</td>
<td>NOT APPLICABLE</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>106 Year Reconstructed</td>
<td>1993</td>
<td>7 Facility Carried</td>
<td>IS 70 E</td>
<td></td>
<td></td>
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<tr>
<td>42A Type of Service On</td>
<td>HIGHWAY</td>
<td>12 Base Hwy. Network</td>
<td>YES</td>
<td></td>
<td></td>
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<tr>
<td>21 Structure Maintenance</td>
<td>STATE HIGHWAY AGENCY</td>
<td>13A LRS Inventory Route No.</td>
<td>0000000019</td>
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<td>22 Structure Owner</td>
<td>STATE HIGHWAY AGENCY</td>
<td>13B Subroute No.</td>
<td>00</td>
<td></td>
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<tr>
<td>33 Br. Median Code</td>
<td>CLOSED MED NON MNTABL BAR</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>37 Historical Significance</td>
<td>NOT ELIGIBLE FOR NR OF HP</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>101 Parallel Struc Desg</td>
<td>NONE EXISTS</td>
<td></td>
<td></td>
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<tr>
<td>103 Temporary Structure</td>
<td>NOT TEMPORARY</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>112 NBIS Bridge Length</td>
<td>YES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Place</td>
<td>SALINE</td>
<td>29 AADT</td>
<td>36931</td>
<td></td>
<td></td>
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<tr>
<td>9 Location</td>
<td>S 18 T 48 N R 14 W</td>
<td>30 AADT Year</td>
<td>2016</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>11 Milepoint</td>
<td>114.97 miles</td>
<td>102 Direction of Traffic</td>
<td>2-WAY TRAFFIC</td>
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<tr>
<td>16 Latitude</td>
<td>38 D 57 M 31 S</td>
<td>109 AADT Truck Percent</td>
<td>24%</td>
<td></td>
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<tr>
<td>17 Longitude</td>
<td>92 D 32 M 49 S</td>
<td>114 Future AADT</td>
<td>66475</td>
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<tr>
<td>UNDERRECORD INFORMATION</td>
<td>STRUCTURE GEOMETRIC INFORMATION</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>6 Features Intersected</td>
<td>MISSOURI RIVER, KATY TRA</td>
<td>10 Inventory Rte. Vert. Clear</td>
<td>18 Ft. 12 In.</td>
<td></td>
<td></td>
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<tr>
<td>42B Type of Service Under</td>
<td>WATERWAY</td>
<td>19 By pass Detour Length</td>
<td>3.75 miles</td>
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<td></td>
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<tr>
<td>28B Lanes Under Structure</td>
<td>00</td>
<td>32 Approach Roadway Width</td>
<td>65 Ft. 11 In.</td>
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<td>54A Vert. Clearance Ref.</td>
<td>N/A</td>
<td>34 Skew</td>
<td>0.00 Degrees</td>
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<tr>
<td>54B Vert. Clearance</td>
<td>0 Ft. 0 In.</td>
<td>35 Structure Flared</td>
<td>NO</td>
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<tr>
<td>55A Rt. Lat Clear Ref.</td>
<td>N/A</td>
<td>47 Total Horiz. Clear</td>
<td>25 Ft. 11 In.</td>
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<tr>
<td>55B Rt. Lat Clearance</td>
<td>0 Ft. 0 In.</td>
<td>48 Maximum Span Length</td>
<td>550 Ft. 10 In.</td>
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<tr>
<td>56 Left Lat Clearance</td>
<td>0 Ft. 0 In.</td>
<td>49 Structure Length</td>
<td>3,018 Ft. 1 In.</td>
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<tr>
<td>38 Navigation Control</td>
<td>PERMIT REQ</td>
<td>50A Left Curb/Sidewalk Width</td>
<td>0 Ft. 8 In.</td>
<td></td>
<td></td>
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<tr>
<td>39 Nav Vertical Clear</td>
<td>54 Ft. 9 In.</td>
<td>50B Right Curb/Sidewalk Width</td>
<td>0 Ft. 8 In.</td>
<td></td>
<td></td>
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<tr>
<td>40 Nav Horizontal Clear</td>
<td>500 Ft. 0 In.</td>
<td>51 Curb to Curb Br. Width</td>
<td>60 Ft. 4 In.</td>
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<tr>
<td>111 Nav. Pier Protection</td>
<td>IN PLACE AND FUNCTIONING</td>
<td>52 Deck Width (Out-Out)</td>
<td>62 Ft. 12 In.</td>
<td></td>
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</tr>
</tbody>
</table>

Design_No = L0962 and Inventory_Appraisal_Submittal_Year = 2017

This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.
**Missouri Department of Transportation**  
**Bridge Inventory and Inspection System**  
**Structural Inventory & Appraisal Sheet**

**COUNTY:** COOPER  
**BRIDGE:** L0962 2  
**REVIEW STATUS:** REVIEW  
**REVIEW DATE:** 11/28/2017  
**SUBMITTAL YEAR:** 2017

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### LOAD RATING AND POSTING INFORMATION

<table>
<thead>
<tr>
<th>31</th>
<th>Design Load</th>
<th>H 20</th>
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<tbody>
<tr>
<td>41</td>
<td>Structure Status</td>
<td>OPEN NO RESTRICTIONS</td>
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<tr>
<td>63</td>
<td>Oper. Rating Meth.</td>
<td>LOAD FACTOR</td>
</tr>
<tr>
<td>64</td>
<td>Operating Rating</td>
<td>45 Tons.</td>
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<tr>
<td>65</td>
<td>Inventory Rating Meth</td>
<td>LOAD FACTOR</td>
</tr>
<tr>
<td>66</td>
<td>Inventory Rating</td>
<td>27 Tons.</td>
</tr>
<tr>
<td>70</td>
<td>Bridge Posting Code</td>
<td>=&gt;LEGAL LOADS</td>
</tr>
</tbody>
</table>

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### PROPOSED IMPROVEMENT INFORMATION

- **Sufficiency Rating:** 54.5 Percent
- **Deficiency Rating:** NOT DEFICIENT

**Funding Eligibility**

- **Proposed Work**
- **Work Done By**
- **New Struc Length:** 0 Ft. 0 In.
- **Struc Improve Cost:** $0,000
- **Roadway Improve Cost:** $0,000
- **Total Project Cost:** $0,000
- **Year of Cost Estimates:** 0

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### APPRAISAL RATING INFORMATION

- **Br. Rail App. Rating:** MEETS ACCEPTABLE STND
- **Transition Rail App. Rating:** MEETS ACCEPTABLE STND
- **Approach Rail App. Rating:** MEETS ACCEPTABLE STND
- **Rail End Treat. App. Rating:** DOES NOT MEET ACCEPT STND
- **Struc Eval App. Rating:** 5
- **Deck Geometry App. Rating:** 4
- **Underclearance App. Rating:** N
- **Waterway Adeq. App. Rating:** 8
- **Approach Road App. Rating:** 8
- **Scour Assess App. Rating:** 3

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### APPROVED POSTING INFORMATION

- **Approved Posting Category:** S-1
- **Ton1** | **Ton2** | **Ton3**
- **Tonnage Values for Posting Sign**
- **General Text for Posting Sign**
- **NO POSTING REQUIRED**

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### FIELD POSTING INFORMATION

- **Field Posting Category:** S-1
- **Ton1** | **Ton2** | **Ton3**
- **Tonnage Values for Posting Sign**
- **General Text for Posting Sign**
- **NO POSTING REQUIRED**

---

**Design_No = L0962** and **Inventory_Appraisal_Submittal_Year = 2017**

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L0962  I-70  Cooper
Floorbeam L3’L3’  Middle Lower
X-brace Gusset Plate Section Loss
8-28-17
L0962  I-70  Cooper
Floorbeam L12’L12’ North Web Stiffener
Between Stringers 5 & 6 Advanced Section Loss
8-29-17
L0962  Cooper Co
08/28/2017
Pier 4 Delamination,
Looking East
L0962  I-70  Cooper
Floorbeam L0L0 at Stringer 9 Web Stiffener and Stringer Support Advanced Section Loss
8-30-17
Floorbeam L0L0 at Stringer 9 Web Stiffener and Stringer Support Advanced Section Loss
8-30-17
L0962   I-70   Cooper
East Truss Lower Chord L11L12 Bottom Plate
Advanced Section Loss at L12
8-31-17
L0962  I-70   Cooper
Floorbeam L16’L16’  East End
Bottom Flange Heavy Section Loss
10-2-17
L0962  9-23-13
PIER 15 ROCKERS
ON STEP CAP TIPPED
W ALMOST TO THE
MAX
L0962  9-23-13
PIER 15 E SIDE OF CAP FACE
W/LRG 6"X7" SPALL REBAR
EXP & HVY DELAM
L0962 9-23-13
SP 14 L-11' LEFT BTM RIVET
HEAD SHEARED OFF THRU
INSIDE GUSS

rivet
head
sheared
off
L0962  9-23-13
SP 14 L-12' FLBM BTTM FLNG
W/MIN PK RUST & SL
L0962  9-24-13
PIER 4 W SIDE TOP EDGE OF CAP
W/LRG 4'X1' SPALL REBAR EXP
L0962  9-24-13
PIER 2 W SIDE CAP FACE
W/LRG SPALLS REBAR EXP
HVY MAP CRKS W/EFF &
LRG AREAS OF DELAM
THRUOUT
L0962  9-24-13
PIER 7 FLBM W SIDE ALONG
BTTM FLNG W/SL 30%- 50%
REMAINING THROUOUT
ENTIRE MEMBER
L0962  9-24-13
PIER 7 FLBM W SIDE ALONG
BTTM FLNG W/SL 30%- 50%
REMAINING THRUOUT
ENTIRE MEMBER
L0962  9-24-13
SP 14 L-16' SADDLE
@ BRNG #9 W/HVY
PK RUST
L0962  9-24-13
SP 14 L-16' - L-15' RIGHT
TOP OF LC RIVETED CONN
PLT BULGING DUE TO 1"
PK RUST TYP THRUOUT
ALL SPANS
L0962  9-24-13
SP 14 L-14' RIGHT SIDE
BTTM OF INSIDE LC
RIVETED CONN PLT
BULGING DUE TO 1"
PK RUST TYP THRUOUT
L0962  9-23-13 B
SP 13 L-19 LEFT W/ FERN’S GROWING IN DIAG. CONNECTION PLATE
L0962  9-23-13 B
SP 13 U-10 LEFT TOP GUSS
W/ MINOR DISTORTION
L0962  9-23-13 B
SP 13 U-7 LEFT W/ 3” RIP IN TOP GUSS
NO CRK BEYOND DAMAGED AREA
L0962 Cooper 70 E 8/24/15
Abut 18 outer edge of cap delamed throughout
L0962 Cooper 70 E 8/24/15
Pier 15 girder 2 rocker with minor rust moderate leaning to west typical throughout rockers
L0962 Cooper 70 E 8/24/15
Span 14 L4' floorbeam stringer 1
saddle bearing with hvy
pack rust lifting stringer 1 inch
L0962 Cooper 70 E 8/24/15
Span 13 L11 to L12 left
side lower chord with 3 inch by
10 inch area of adv sec loss
bottom of chord at L12 lower gusset
L0962 Cooper 70 E 8/24/15
Bent 7 floorbeams with hvy pack rust and mod sec loss in web and bottom flange 50 percent remaining
L0962 Cooper 70 E 8/24/15
Bent 7 span 6 west
side view of bent 7 with map cracking throughout and large spalls with rebar exposed
Span 13 minor rusting and paint peeling throughout (NC) above curb line at L16M15R
Span 6 floorbeam at bent 7 with moderate sec loss in bottom web 60 percent remain
Span 13 stringer 9 at L8 with hvy pack rust cantilever bearing
L0962 Cooper 70 9/10/15
Span 13 L16 right side
inner gusset with mod sec loss along lower chord 50 percent remaining
L0962 Cooper 70 9/10/15
Span 14 L16' floorbeam
stringer 9 cantilever
bearing with hvy pack rust
L0962 Cooper 70 9/10/15
PR 15 span 15 rockers
tilted to the max leaning west
L0962 Cooper 70 9/10/15
Bent 16 girder 3 with mod pack rust between plates and bottom flange
L0962  Cooper 70  8/28/17  Bent 10
east side cap face lrg hvy map cracks
with saturation and eff with rust stains
entire face with delamination and minor
spalling rebar exposed with sec loss 60%
percent remaining in exposed rebar
L0962  Cooper  70  8/28/17  Bent 10  
column 1 east side face entire face with 
deep delaminations open cracks rust stains  
eff and saturation
L0962 Cooper 70 8/28/17 Bent
13 west side cap face lrg hvy delamination open map cracks saturation with eff lrg spalls rebar exposed 60 percent remaining
L0962  Cooper 70  8/28/17  Bent 13
west side column 2 lrg hvy delamination
open V crack with saturaition lrg spalls
rebar exp 60 percent remaining in
exposed rebar
L0962  Cooper 70  8/28/17  Pier 15  
east side cap face with hvy delamination  
with lrg spalls rebar exposed hvy map  
cracking
L0962 Cooper 70 8/28/17 Bent 4
west side capface all delaminated and spalled out with rebar exposed
L0962  Cooper 70  8/28/17  Bent 4  
East side cap face all delaminated with 
hvy spalling rebar exposed and column 
2 with areas of delamination
Bent 7 west side cap face all delaminated with hvy spalling and rebar exposed
L0962  Cooper 70  8/28/17
Bent 7 east side capface all delaminated with hvy spalling
with rebar exposed
L0962  Cooper 70  8/28/17 Bent 9 east side cap face lrg spall rebar exposed with sec loss to exposed rebar 40 percent remaining.
L0962 Cooper 70 8/28/17 Bent 9
east side cap face with hvy delamination
and spalling rebar exposed 40 percent
remaining in rebar open cracks with rust
stains and saturaiton
L0962 Cooper 70
8/28/17 Bent 7 west side
capface with hvy spalls rebar
exposed 40 percent
remaining in exposed rebar
hvy map cracks with eff and
rust stains entire cap
delamination and spalling
L0962 Cooper 70 8/28/17 Bent 4 span 3 floorbeam between girder 1 and 2 web and bottom flange with heavy pack rust and sec loss 3 inch by 15 foot 30 percent remaining
L0962  Cooper  70   8/28/17
Bent 4 east side cap face Irq hvy
delamination throughout Irq spalls
rebar exposed 40 percent remaining
in exposed rebar hvy map cracks
with eff throughout
MISSOURI STATE HIGHWAY DEPARTMENT
BRIDGE OVER THE MISSOURI RIVER
ABOUT 10 MILES EAST OF BOONVILLE
PROJECT I-229 (14),(16) a,b,c (FAI-RT.1) — I-70-3 (15) a,b (RT. I-70)
BOONE—COOPER COUNTIES
1957

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8. PIER 14
9. PIER 15
10. PIER 15
11. PIER 15
12. ANCHOR BOLT PLAN
13. BAR LIST
14. BAR LIST & SPECIAL BENDING DETAILS AND CUTTING DIAGRAMS
15. STANDARD GI-TYPICAL BAR TYPES AND HOOK DIMENSIONS
16. PIER 13
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23. BAR LIST
24. BAR LIST, SPECIAL BENDING DETAILS AND CUTTING DIAGRAMS
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26. GIRDER SPANS 1 TO 8 — GIRDER DETAILS
27. GIRDER SPANS 1 TO 8 — CROSS SECTIONS
28. GIRDER SPANS 1 TO 10 — FRAMING PLAN AND ELEVATION
29. GIRDER SPANS 10 TO 12 — GIRDER DETAILS
30. GIRDER SPANS 10 TO 12 — CROSS SECTIONS
31. GIRDER SPANS 10 TO 12 — MISC. DETAILS
32. GIRDER SPANS 10 TO 12 — BANKS
33. GIRDER SPANS 10 TO 12 — FRAMING PLAN AND ELEVATION
34. GIRDER SPANS 10 TO 12 — GIRDER DETAILS
35. GIRDER SPANS 10 TO 12 — CROSS SECTIONS

SVERDRUP AND PARCEL, INC.
ENGINEERS—ARCHITECTS
ST. LOUIS, MISSOURI

APPROVED
SUBMITTED:
MD. STATE HIGHWAY DEPARTMENT

FREDERICK F. HILLERMAN
ENGINEER IN CHARGE

APPROVED
SUBMITTED:
MD. STATE HIGHWAY DEPARTMENT

FREDERICK F. HILLERMAN
ENGINEER IN CHARGE