

HOLT COUNTY

INCLUDED: [Significant feature(s) of bridge given in boldface]
 [Field inventoried bridge indicated by asterisk]

| Inv. No. | MHTD | Bridge Name | Description |
|----------|----------|-----------------------------|---|
| HOLT01 | H 457R | Little Tarkio Ditch Bridge | 1-120' riveted Pratt through truss 1926 George W. Condon |
| *HOLT02 | L 97 | Rulo Bridge | 2-375' riveted Pennsylv. through truss 1939 Kansas City Bridge Company / Missouri Valley B&I Company |
| HOLT03 | T 104 | Big Tarkio Creek Bridge | 1-100' riveted Warren pony truss 1934 T.J. Morris |
| *HOLT04 | 006001.5 | Corning Bridge | (replaced) |
| *HOLT05 | 012000.2 | Tarkio River Bridge | 1-100' pinned Pratt through truss c1910 |
| HOLT06 | 030002.8 | Little Tarkio Creek Bridge | 1- 70' pinned Pratt pony truss c1910 |
| HOLT07 | 034000.6 | Little Tarkio Creek Bridge | 1- 60' pinned Pratt pony truss c1910 |
| HOLT08 | 040000.9 | Little Tarkio Creek Bridge | 1- 50' riveted Camelback pony truss c1925 |
| HOLT09 | 049001.0 | Minnesota Valley Ck. Bridge | 1- 80' riveted Camelback pony truss c1925 |
| HOLT10 | 049001.3 | Minnesota Valley Ck. Bridge | 1- 40' pinned Pratt pony truss c1910 |
| HOLT11 | 057000.2 | Middle Branch Bridge | 1- 40' pinned Pratt pony truss c1910 |
| HOLT12 | 062001.7 | Squaw Creek Bridge | (replaced) |
| HOLT13 | 072000.7 | Bridge | 1- 40' pinned Pratt pony truss c1910 |
| HOLT14 | 086000.6 | Highly Creek Bridge | 1- 62' pinned Pratt half-hip pony truss c1910 |
| HOLT15 | 088000.8 | Whig Valley Creek Bridge | 1- 55' pinned Pratt pony truss c1910 |
| HOLT16 | 089001.6 | Whig Valley Creek Bridge | 1- 60' pinned Pratt pony truss c1910 |
| HOLT17 | 106000.5 | Squaw Creek Bridge | 1- 60' pinned Pratt pony truss c1910 |
| HOLT18 | 107000.5 | Squaw Creek Bridge | 1- 80' pinned Pratt pony truss c1910 |
| HOLT19 | 108000.8 | Middle Branch Bridge | 1- 60' pinned Pratt pony truss c1910 |
| HOLT20 | 111000.7 | Squaw Creek Bridge | 1- 75' pinned Pratt pony truss c1915 |
| HOLT21 | 115000.3 | Davis Creek Bridge | 1- 48' pinned Pratt half-hip pony truss c1910 |
| HOLT22 | 116002.4 | Davis Creek Bridge | 1- 50' pinned Pratt pony truss c1910 |
| HOLT23 | 119001.0 | Davis Creek Bridge | 1- 60' pinned Pratt pony truss c1910 |

HOLT COUNTY

INCLUDED (cont.):

| | | | | |
|---------|----------|-----------------------------|-----------------|---|
| *HOLT24 | 126000.5 | Squaw Creek Bridge | 1-120' c1910 | pinned Pratt through truss |
| HOLT25 | 127001.7 | Squaw Creek Bridge | 1- 60' c1910 | pinned Pratt pony truss |
| *HOLT26 | 128000.3 | Minnesota Valley Ck. Bridge | 1- 80' c1925 | 2-angle Camelback pony truss |
| HOLT27 | 131002.7 | Wildcat Creek Bridge | 1- 60' c1910 | pinned Pratt pony truss |
| HOLT28 | 134R01.0 | Wildcat Creek Bridge | 1- 50' c1910 | pinned Pratt pony truss |
| HOLT29 | 135000.8 | Wildcat Creek Bridge | 1- 50' c1910 | pinned Pratt pony truss |
| HOLT30 | 145001.7 | Little Tarkio Creek Bridge | 1- 45' c1910 | pinned Pratt pony truss |
| HOLT31 | 148500.1 | Grand Ave Creek Bridge | 1- 40' c1910 | pinned Pratt pony truss |
| HOLT32 | 148500.2 | Grand Ave Creek Bridge | 1- 60' c1910 | pinned Pratt pony truss |
| *HOLT33 | 165000.1 | Tarkio River Bridge | 1-100' c1915 | pinned Pratt through truss |
| HOLT34 | 233000.7 | Kunkel Mill Bridge | 1- 65' 1919 | pinned Pratt pony truss Kansas City Bridge Company (replaced) |
| HOLT35 | 234001.5 | Kimsey Creek Bridge | | |
| HOLT36 | 243000.8 | Hog Creek Bridge | 1- 50' c1910 | pinned Pratt pony truss |
| HOLT37 | 247000.8 | Hickory Creek Bridge | 1- 60' c1910 | pinned Pratt pony truss |
| *HOLT38 | 257001.6 | Leach Mill Bridge | 1- 72' 1913 | pinned Pratt through truss A.S. Seybert |
| HOLT39 | 280000.5 | Rock Creek Bridge | 1- 50' c1910 | pinned Pratt pony truss |
| HOLT40 | 291001.4 | Grand Ave Creek Bridge | 1- 60' c1910 | pinned Pratt pony truss |
| HOLT41 | 292000.6 | Kimsey Creek Bridge | 1- 60' c1910 | pinned Pratt pony truss |
| HOLT42 | 300001.8 | Kimsey Creek Bridge | | (replaced) |
| HOLT43 | 301R01.1 | Kimsey Creek Bridge | 1- 75' c1910 | pinned Pratt pony truss |
| HOLT44 | 321000.9 | Mill Creek Bridge | 1- 75' c1910 | pinned Pratt pony truss |
| HOLT45 | 324000.0 | Mill Creek Bridge | | (replaced) |
| HOLT46 | 328000.0 | Schlotz Branch Bridge | 1- 40' c1910 | pinned Pratt pony truss |
| HOLT47 | 336000.9 | Easter Creek Bridge | | (replaced) |
| HOLT48 | 336002.4 | Forbes Creek Bridge | 1- 45' c1910 | pinned Pratt half-hip pony truss |
| HOLT49 | 348000.8 | Smith Creek Bridge | | (replaced) |

HOLT COUNTY

EXCLUDED:

Pratt pony truss

349002.7 363R01.9

Warren pony truss

| | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|
| H 704 | 074000.2 | 086000.8 | 088000.3 | 110R01.6 | 110000.3 | 111001.6 |
| 119002.2 | 123001.1 | 133000.4 | 133002.9 | 145000.6 | 225000.2 | 282001.3 |
| 301001.5 | 320000.1 | 346001.3 | 369000.1 | | | |

Steel stringer

| | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|
| H 705R | H 795 | J 252 | K 841 | S 183R | S 430 | S 431 |
| S 433 | T 587 | T 588 | X 165 | X 265 | X 266 | 012002.1 |
| 053000.3 | 064000.5 | 065000.1 | 072000.3 | 099000.5 | 100002.2 | 102001.8 |
| 107000.1 | 110003.5 | 119001.8 | 127000.1 | 127000.8 | 148500.4 | 220001.5 |
| 267000.7 | 282001.6 | 333000.6 | 350000.0 | 353000.2 | 360000.1 | 369001.0 |

Lattice pony truss

084001.9 298000.5

Steel girder

| | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|
| 050000.8 | 054000.8 | 055001.2 | 061000.5 | 075000.8 | 085000.8 | 090000.1 |
| 114001.4 | 116000.6 | 116001.6 | 125000.5 | 148500.3 | 220002.5 | 231001.3 |
| 241000.2 | 243000.1 | 250000.9 | 278000.8 | 284000.5 | 330R00.5 | 343001.7 |

Concrete slab / girder

| | | | | | |
|-------|-------|-------|-------|-------|----------|
| H 670 | H 703 | J 169 | J 170 | T 230 | 294500.1 |
|-------|-------|-------|-------|-------|----------|

Concrete box culvert

| | | | | | |
|-------|-------|-------|------|--------|----------|
| H 828 | S 429 | S 432 | T 59 | X 602R | 113000.2 |
|-------|-------|-------|------|--------|----------|

SUMMARY:

| | Primary | Secondary | Urban | Other | Total |
|----------|---------|-----------|-------|-------|----------------|
| Included | 3 | 39 | 0 | 0 | 42 |
| Excluded | 24 | 64 | 0 | 0 | 88 |
| <hr/> | | | | | |
| | 27 | 103 | 0 | 0 | 130 structures |

Little Tarkio Ditch Bridge

HOLT01

GENERAL DATA

| | |
|------------------------------|--|
| structure no.: H 457R | city/town: 1.8 miles east of Craig |
| county: Holt | feature inters.: Little Tarkio Ditch |
| | cadastral grid: S7, T62N, R39W |
| | highway route: U.S. Highway 59 |
| | highway distr.: 1 |
| | current owner: Missouri Highway and Transportation Department |

STRUCTURAL DATA

| | |
|--|---|
| superstructure: steel, 6-panel, rigid-connected Pratt through truss, skewed, with steel stringer approach spans | |
| substructure: concrete abutments and wingwalls; hammerhead spill through piers | |
| span number: 1 | condition: good |
| span length: 120.0' | alterations: bridge renovated, 1943 |
| total length: 245.0' | floor/decking : concrete deck over steel stringers |
| roadway width: 20.0' | other features: steel pipe guardrails |

HISTORICAL DATA

| | |
|---|--|
| erection date: 1926 | |
| erection cost: \$20,066.30 | |
| designer: Missouri State Highway Department | |
| fabricator : unknown | |
| contractor: George W. Condon Company (original construction); Otto K. Knutson (1943 renovation) | |
| references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number H 457R; Primary System Bridge files, located at Missouri Highway and Transportation Department, Jefferson City MO. | |
| sign. rating: 47 | |
| evaluation: NRHP non-eligible (atypically configured example of MSHD highway truss design, altered) | |

inventoried by: Mark Hufstetler 21 August 1992

Rulo Bridge

HOLT02

GENERAL DATA

| | |
|-------------------------------------|---|
| structure no.: L97 | city/town: 5.3 miles west Fortescue |
| county: Holt / Richardson | feature inters.: Missouri River |
| | cadastral grid: S33, T61N, R40W |
| | highway route: U.S. Highway 159 |
| | highway distr.: 1 |
| | current owner: Missouri Highway and Transportation Department / Nebraska Department of Roads |

STRUCTURAL DATA

superstructure: steel, 16-panel rigid-connected Pennsylvania through truss, with rigid-connected Warren deck trusses

substructure: concrete abutments and wingwalls; concrete two-legged piers and solid channel piers

| | |
|-----------------------------|---|
| span number: 3 | condition: good |
| span length: 375.0' | alterations: none |
| total length: 859.0' | floor/decking : concrete deck over I-beam transverse joists, which rest on I-beam stringers |
| roadway width: 20.0' | other features: upper chord and inclined end post: 2 channels with cover plate and double lacing; lower chord: 2 channels with lacing; vertical: built up I-beam girder with lacing or 4 angles with lacing; diagonal: 2 channels with lacing; lateral bracing: 4 angles with lacing; strut: 4 angles with lacing; floor beam: I-beams; guardrail: 3 angles; builder's plate: FEDERAL WORKS AGENCY / PUBLIC WORKS ADMINISTRATION / JOHN M. CARMODY / FEDERAL WORKS ADMINISTRATOR / FRANKLIN D. ROOSEVELT / PRESIDENT OF THE UNITED STATES / MISSOURI RIVER BRIDGE / 1939, and RICHARDSON COUNTY, NEBRASKA / KANSAS CITY BRIDGE COMPANY / MISSOURI VALLEY BRIDGE AND IRON COMPANY / CONTRACTORS / HARRINGTON AND CORTELYOU / CONSULTING ENGINEERS |

HISTORICAL DATA

| |
|---|
| erection date: 1938-39 |
| erection cost: \$651,296.01 |
| designer: Harrington and Cortelyou, Kansas City MO |
| fabricator : unknown |
| contractor: Kansas City Bridge Company, Kansas City MO; Missouri Valley Bridge and Iron Company, Leavenworth KS |

Rulo Bridge

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number L97; Nebraska Department of Roads and Irrigation, **Twenty-Third Biennial Report**, 1939-40, page 23; Henry G. Schlitt, "Missouri River Bridges, Report #2," 7 November 1945, located in Bridge Division, Nebraska Department of Roads, Lincoln NE; Proceedings of the Richardson County Commissioners, Book 13: pages 673-74 (14 February 1934); Book 14: page 276 (10 September 1935), pages 284-85 (24 September 1935), page 419 (23 June 1936), pages 52-53 (29 June 1938); Book 15: pages 67-70 (28 July 1938), pages 111-13 (13 September 1938), page 161 (29 November 1938), page 183 (17 January 1939), page 239 (25 July 1939), page 276 (7 November 1939), page 324 (2 April 1940); Book 16: page 73 (11 October 1966); Book 20: page 106 (17 January 1967), page 363 (10 December 1968), page 371 (7 January 1969), page 389 (25 February 1969), page 426 (24 June 1969)- located in Richardson County Courthouse, Falls City NE; field inspection by Demian Hess, 13 March 1990; field inspection by Mark Hufstetler, 7 September 1990.

sign. rating: 65

evaluation: NRHP listed (well-preserved example of long-span truss design, on regionally important crossing of the Missouri River)

inventoried by: Mark Hufstetler and Demian Hess 21 August 1992

Big Tarkio Creek Bridge

HOLT03

GENERAL DATA

| | |
|----------------------------|--|
| structure no.: T104 | city/town: 2.5 miles west of Craig |
| county: Holt | feature inters.: Big Tarkio Creek |
| | cadastral grid: S9/16, T62N, R40W |
| | highway route: State Highway 111 |
| | highway distr.: 1 |
| | current owner: Missouri Highway and Transportation Department |

STRUCTURAL DATA

| | |
|--|---|
| superstructure: steel, 6-panel, rigid-connected, Warren pony truss with polygonal upper chords; steel stringer approach spans | |
| substructure: concrete abutments, wingwalls and piers | |
| span number: 1 | condition: good |
| span length: 100.0' | alterations: none |
| total length: 180.0' | floor/decking : concrete deck over steel stringers |
| roadway width: 20.0' | other features: steel guardrails |

HISTORICAL DATA

| | |
|---|--|
| erection date: 1934 | |
| erection cost: \$14,200.30 | |
| designer: Missouri Highway and Transportation Department | |
| fabricator : unknown | |
| contractor : T.J. Morris | |
| references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number T104; Primary System Bridge files, located at Missouri Highway and Transportation Department, Jefferson City MO. | |
| sign. rating: 43 | |
| evaluation: NRHP non-eligible (typically configured, long-span example of MSHD bridge design) | |

inventoried by: Mark Hufstetler 21 August 1992

Tarkio River Bridge

HOLT05

GENERAL DATA

| | | | |
|----------------|----------|------------------|------------------------------|
| structure no.: | 012000.2 | city/town: | 3.7 miles northwest of Craig |
| county: | Holt | feature inters.: | Tarkio River |
| | | cadastral grid: | S33, T63N, R40W |
| | | highway route: | County Road 12 |
| | | highway distr.: | 1 |
| | | current owner: | Holt County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|---|
| superstructure: | steel, 5-panel, pin-connected Pratt through truss, with steel stringer approach spans | | |
| substructure: | concrete-filled steel cylinder piers; steel pile bent abutments at east end | | |
| span number: | 1 | condition: | fair |
| span length: | 100.0' | alterations: | none |
| total length: | 158.0' | floor/decking : | timber deck over steel stringers |
| roadway width: | 13.8' | other features: | upper chord and inclined end post: 2 channels with cover and batten plates; lower chord: 2 punched rectangular eyebars; vertical: 2 channels with lacing; diagonal: 2 punched rectangular eyebars; counter: round eyerod with turnbuckle; strut: 2 angles; floor beam: I-beam, field-bolted to verticals; guardrail: 2 steel channels |

HISTORICAL DATA

| | |
|----------------|--|
| erection date: | c1910 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | Cambria Steel Company, Pittsburgh PA |
| contractor: | unknown |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 012000.2; field inspection by Mark Hufstetler, 7 September 1990. |
| sign. rating: | 27 |
| evaluation: | NRHP non-eligible (typically configured, inadequately documented example of common structural type) |

Inventoried by: Mark Hufstetler 21 August 1992

Little Tarkio Creek Bridge

HOLT06

GENERAL DATA

| | | | |
|----------------|-----------------|------------------|-------------------------------|
| structure no.: | 030002.8 | city/town: | 5.3 miles northeast of Craig |
| county: | Holt / Atchison | feature inters.: | Little Tarkio Creek |
| | | cadastral grid: | S18/19, T63N, R39W |
| | | highway route: | County Road 30 |
| | | highway distr.: | 1 |
| | | current owner: | Holt County / Atchison County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|------------------------|
| superstructure: | steel, pin-connected Pratt pony truss | | |
| substructure: | steel pile bent piers and timber wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 70.0' | alterations: | unknown |
| total length: | 74.0' | floor/decking : | timber deck |
| roadway width: | 14.0' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|---|
| erection date: | c1910 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | unknown |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 030002.8. |
| sign. rating: | 28 |
| evaluation: | NRHP non-eligible (undistinguished example of common structural type, lacking in documentation) |

inventoried by: Mark Hufstetler 21 August 1992

Little Tarkio Creek Bridge

HOLT07

GENERAL DATA

| | | | |
|----------------|----------|------------------|----------------------------------|
| structure no.: | 034000.6 | city/town: | 4.7 miles northeast of Craig |
| county: | Holt | feature inters.: | East Fork of Little Tarkio Creek |
| | | cadastral grid: | S19/20, T63N, R39W |
| | | highway route: | County Road 34 |
| | | highway distr.: | 1 |
| | | current owner: | Holt County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|----------------------------------|
| superstructure: | steel, 4-panel, pin-connected Pratt pony truss, with steel stringer approach spans | | |
| substructure: | steel pile bent piers and abutments with timber wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 60.0' | alterations: | unknown |
| total length: | 91.0' | floor/decking : | timber deck over steel stringers |
| roadway width: | 13.8' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|---|
| erection date: | c1910 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | unknown |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 034000.6. |
| sign. rating: | 28 |
| evaluation: | NRHP non-eligible (undistinguished example of common structural type, lacking in documentation) |

Inventoried by: Mark Hufstetler 21 August 1992

Little Tarkio Creek Bridge

HOLT08

GENERAL DATA

| | |
|-----------------------------------|--|
| structure no.: 040000.9 | city/town: 5.7 miles northeast of Craig |
| county: Holt / Atchison | feature inters.: East Fork of Little Tarkio Creek |
| | cadastral grid: S17/20, T63N, R39W |
| | highway route: County Road 40 |
| | highway distr.: 1 |
| | current owner: Holt County / Atchison County |

STRUCTURAL DATA

| | |
|--|---|
| superstructure: steel, 6-panel, rigid-connected Camelback pony truss | |
| substructure: steel pile bent piers and abutments with timber wingwalls | |
| span number: 1 | condition: fair |
| span length: 50.0' | alterations: unknown |
| total length: 89.0' | floor/decking : timber deck |
| roadway width: 14.1' | other features: steel angle guardrails |

HISTORICAL DATA

| |
|-------------------------------|
| erection date: c1925 |
| erection cost: unknown |
| designer: unknown |
| fabricator : unknown |
| contractor : unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 040000.9.

| |
|---|
| sign. rating: 33 |
| evaluation: NRHP non-eligible (largely undocumented example of uncommon Pratt truss subtype) |

inventoried by: Mark Hufstetler 21 August 1992

Minnesota Valley Creek Bridge

HOLT09

GENERAL DATA

| | | | |
|----------------|----------|------------------|-------------------------------|
| structure no.: | 049001.0 | city/town: | 8.0 miles north of Mound City |
| county: | Holt | feature inters.: | Minnesota Valley Creek |
| | | cadastral grid: | S19/30, T63N, R38W |
| | | highway route: | County Road 49 |
| | | highway distr.: | 1 |
| | | current owner: | Holt County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|------------------------|
| superstructure: | steel, 6-panel, rigid-connected Camelback pony truss | | |
| substructure: | steel pile bent abutments with timber wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 80.0' | alterations: | unknown |
| total length: | 82.0' | floor/decking : | timber deck |
| roadway width: | 15.9' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|---------|
| erection date: | c1925 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 049001.0.

| | |
|---------------|--|
| sign. rating: | 38 |
| evaluation: | NRHP non-eligible (largely undocumented example of uncommon Pratt truss subtype) |

inventoried by: Mark Hufstetler 21 August 1992

Minnesota Valley Creek Bridge

HOLT10

GENERAL DATA

| | |
|--------------------------------|---|
| structure no.: 049001.3 | city/town: 8.0 miles north of Mound City |
| county: Holt | feature inters.: Minnesota Valley Creek |
| | cadastral grid: S19, T63N, R38W |
| | highway route: County Road 49 |
| | highway distr.: 1 |
| | current owner: Holt County |

STRUCTURAL DATA

| | |
|---|---|
| superstructure: steel, 3-panel, pin-connected Pratt pony truss | |
| substructure: unknown | |
| span number: 1 | condition: fair |
| span length: 40.0' | alterations: unknown |
| total length: 41.0' | floor/decking : timber deck |
| roadway width: 13.8' | other features: steel angle guardrails |

HISTORICAL DATA

| | |
|-------------------------------|---|
| erection date: c1910 | |
| erection cost: unknown | |
| designer: unknown | |
| fabricator : unknown | |
| contractor: unknown | |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 049001.3. |
| sign. rating: 20 | |
| evaluation: | NRHP non-eligible (typically configured, modestly scaled example of common structural type) |

inventoried by: Mark Hufstetler 21 August 1992

Middle Branch Bridge

HOLT11

GENERAL DATA

| | | | |
|----------------|----------|------------------|-----------------------------------|
| structure no.: | 057000.2 | city/town: | 8.0 miles northeast of Mound City |
| county: | Holt | feature inters.: | Middle Branch |
| | | cadastral grid: | S28/29, T63N, R38W |
| | | highway route: | County Road 57 |
| | | highway distr.: | 1 |
| | | current owner: | Holt County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|-------------|
| superstructure: | steel, 3-panel, pin-connected Pratt pony truss | | |
| substructure: | unknown | | |
| span number: | 1 | condition: | fair |
| span length: | 40.0' | alterations: | unknown |
| total length: | 41.0' | floor/decking : | timber deck |
| roadway width: | 16.0' | other features: | unknown |

HISTORICAL DATA

| | |
|----------------|---------|
| erection date: | c1910 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor : | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 057000.2.

| | |
|---------------|---|
| sign. rating: | 20 |
| evaluation: | NRHP non-eligible (typically configured, modestly scaled example of common structural type) |

Inventoried by: Mark Hufstetler 21 August 1992

Bridge

HOLT13

GENERAL DATA

| | |
|--------------------------------|---|
| structure no.: 072000.7 | city/town: 4.0 miles northwest of Maitland |
| county: Holt | feature inters.: branch of Nodaway River |
| | cadastral grid: S19/20, T63N, R37W |
| | highway route: County Road 72 |
| | highway distr.: 1 |
| | current owner: Holt County |

STRUCTURAL DATA

| | |
|--|---|
| superstructure: steel, 3-panel, pin-connected Pratt pony truss, with timber stringer approach spans | |
| substructure: steel pile bent piers and abutments with timber wingwalls | |
| span number: 1 | condition: fair |
| span length: 40.0' | alterations: unknown |
| total length: 75.0' | floor/decking : timber deck |
| roadway width: 13.8' | other features: steel angle guardrails |

HISTORICAL DATA

| |
|-------------------------------|
| erection date: c1910 |
| erection cost: unknown |
| designer: unknown |
| fabricator : unknown |
| contractor: unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 072000.7.

| |
|--|
| sign. rating: 25 |
| evaluation: NRHP non-eligible (typically configured, modestly scaled example of common structural type) |

inventoried by: Mark Hufstetler 21 August 1992

Highly Creek Bridge

HOLT14

GENERAL DATA

| | | | |
|----------------|----------|------------------|-----------------------------------|
| structure no.: | 086000.6 | city/town: | 7.5 miles northeast of Mound City |
| county: | Holt | feature inters.: | Highly Creek |
| | | cadastral grid: | S17/18, T62N, R37W |
| | | highway route: | County Road 86 |
| | | highway distr.: | 1 |
| | | current owner: | Holt County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|--------------------------|
| superstructure: | steel, 4-panel, pin-connected Pratt half-hip pony truss | | |
| substructure: | unknown | | |
| span number: | 1 | condition: | fair |
| span length: | 62.0' | alterations: | unknown |
| total length: | 63.0' | floor/decking : | timber deck |
| roadway width: | 13.5' | other features: | steel lattice guardrails |

HISTORICAL DATA

| | |
|----------------|---|
| erection date: | c1910 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | unknown |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 086000.6. |
| sign. rating: | 28 |
| evaluation: | NRHP non-eligible (typically configured example of common structural type, poorly documented) |

inventoried by: Mark Hufstetler 21 August 1992

Whig Valley Creek Bridge

HOLT15

GENERAL DATA

| | |
|--------------------------------|---|
| structure no.: 088000.8 | city/town: 7.0 miles northeast of Mound City |
| county: Holt | feature inters.: Whig Valley Creek |
| | cadastral grid: S19/20, T62N, R37W |
| | highway route: County Road 88 |
| | highway distr.: 1 |
| | current owner: Holt County |

STRUCTURAL DATA

| | |
|---|---|
| superstructure: steel, 3-panel, pin-connected Pratt pony truss | |
| substructure: steel pile bent piers and timber wingwalls | |
| span number: 1 | condition: fair |
| span length: 55.0' | alterations: unknown |
| total length: 55.0' | floor/decking : timber deck |
| roadway width: 13.7' | other features: steel angle guardrails |

HISTORICAL DATA

| | |
|---|--|
| erection date: c1910 | |
| erection cost: unknown | |
| designer: unknown | |
| fabricator : unknown | |
| contractor: unknown | |
| references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 088000.8. | |
| sign. rating: 25 | |
| evaluation: NRHP non-eligible (typically configured, modestly scaled example of common structural type, poorly documented) | |

inventoried by: Mark Hufstetler 21 August 1992

Whig Valley Creek Bridge

HOLT16

GENERAL DATA

| | | | |
|----------------|----------|------------------|-----------------------------------|
| structure no.: | 089001.6 | city/town: | 6.5 miles northeast of Mound City |
| county: | Holt | feature inters.: | Whig Valley Creek |
| | | cadastral grid: | S19/30, T62N, R37W |
| | | highway route: | County Road 89 |
| | | highway distr.: | 1 |
| | | current owner: | Holt County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|------------------------|
| superstructure: | steel, 3-panel, pin-connected Pratt pony truss | | |
| substructure: | steel pile bent abutments with timber wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 60.0' | alterations: | unknown |
| total length: | 62.0' | floor/decking : | timber deck |
| roadway width: | 13.8' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|---------|
| erection date: | c1910 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor : | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 089001.6.

| | |
|---------------|---|
| sign. rating: | 28 |
| evaluation: | NRHP non-eligible (typically configured example of common structural type, poorly documented) |

inventoried by: Mark Hufstetler 21 August 1992

Squaw Creek Bridge

HOLT17

GENERAL DATA

| | | | |
|----------------|----------|------------------|-----------------------------------|
| structure no.: | 106000.5 | city/town: | 5.7 miles northeast of Mound City |
| county: | Holt | feature inters.: | Squaw Creek |
| | | cadastral grid: | S4/5, T62N, R38W |
| | | highway route: | County Road 106 |
| | | highway distr.: | 1 |
| | | current owner: | Holt County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|--------------------------|
| superstructure: | steel, 4-panel, pin-connected Pratt pony truss | | |
| substructure: | timber pile bent abutments and wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 60.0' | alterations: | unknown |
| total length: | 60.0' | floor/decking : | timber deck |
| roadway width: | 15.5' | other features: | steel lattice guardrails |

HISTORICAL DATA

| | |
|----------------|---|
| erection date: | c1910 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | unknown |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 106000.5. |
| sign. rating: | 28 |
| evaluation: | NRHP non-eligible (typically configured example of common structural type, poorly documented) |

inventoried by: Mark Hufstetler 21 August 1992

Squaw Creek Bridge

HOLT18

GENERAL DATA

| | | | |
|-----------------------|----------|-------------------------|-----------------------------------|
| structure no.: | 107000.5 | city/town: | 6.0 miles northeast of Mound City |
| county: | Holt | feature inters.: | Squaw Creek Branch |
| | | cadastral grid: | S5/6, T62N, R38W |
| | | highway route: | County Road 107 |
| | | highway distr.: | 1 |
| | | current owner: | Holt County |

STRUCTURAL DATA

| | | | |
|------------------------|--|------------------------|--------------------------|
| superstructure: | steel, 5-panel, pin-connected Pratt pony truss, with steel stringer approach spans | | |
| substructure: | steel pile bent piers and abutments with timber wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 80.0' | alterations: | unknown |
| total length: | 99.0' | floor/decking : | timber deck |
| roadway width: | 13.7' | other features: | steel lattice guardrails |

HISTORICAL DATA

| | |
|-----------------------|---------|
| erection date: | c1910 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor : | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 107000.5.

| | |
|----------------------|---|
| sign. rating: | 30 |
| evaluation: | NRHP non-eligible (typically configured example of common structural type, poorly documented) |

inventoried by: Mark Hufstetler 21 August 1992

Middle Branch Bridge

HOLT19

GENERAL DATA

| | |
|--------------------------------|---|
| structure no.: 108000.8 | city/town: 5.5 miles northeast of Mound City |
| county: Holt | feature inters.: Middle Branch |
| | cadastral grid: S6, T62N, R38W |
| | highway route: County Road 108 |
| | highway distr.: 1 |
| | current owner: Holt County |

STRUCTURAL DATA

| | |
|---|---|
| superstructure: steel, 4-panel, pin-connected Pratt pony truss, with steel stringer approach spans | |
| substructure: steel pile bent piers and abutments with timber wingwalls | |
| span number: 1 | condition: fair |
| span length: 60.0' | alterations: unknown |
| total length: 81.0' | floor/decking : timber deck |
| roadway width: 15.6' | other features: steel angle guardrails |

HISTORICAL DATA

| | |
|--|--|
| erection date: c1910 | |
| erection cost: unknown | |
| designer: unknown | |
| fabricator : unknown | |
| contractor: unknown | |
| references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 108000.8. | |
| sign. rating: 28 | |
| evaluation: NRHP non-eligible (typically configured example of common structural type, poorly documented) | |

inventoried by: Mark Hufstetler 21 August 1992

Squaw Creek Bridge

HOLT20

GENERAL DATA

| | | | |
|----------------|----------|------------------|-----------------------------------|
| structure no.: | 111000.7 | city/town: | 4.4 miles northeast of Mound City |
| county: | Holt | feature inters.: | Squaw Creek |
| | | cadastral grid: | S7/8, T62N, R38W |
| | | highway route: | County Road 111 |
| | | highway distr.: | 1 |
| | | current owner: | Holt County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|-------------------|
| superstructure: | steel, 5-panel, pin-connected Pratt pony truss | | |
| substructure: | concrete abutments and wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 75.0' | alterations: | unknown |
| total length: | 77.0' | floor/decking : | timber deck |
| roadway width: | 13.7' | other features: | timber guardrails |

HISTORICAL DATA

| | |
|----------------|---------|
| erection date: | c1915 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 111000.7.

| | |
|---------------|---|
| sign. rating: | 28 |
| evaluation: | NRHP non-eligible (typically configured example of common structural type, poorly documented) |

inventoried by: Mark Hufstetler 21 August 1992

Davis Creek Bridge

HOLT21

GENERAL DATA

| | | | |
|----------------|----------|------------------|-----------------------------------|
| structure no.: | 115000.3 | city/town: | 5.0 miles northeast of Mound City |
| county: | Holt | feature inters.: | branch of Davis Creek |
| | | cadastral grid: | S10/15, T62N, R38W |
| | | highway route: | County Road 115 |
| | | highway distr.: | 1 |
| | | current owner: | Holt County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|------------------------|
| superstructure: | steel, 3-panel, pin-connected Pratt half-hip pony truss | | |
| substructure: | steel pile bent abutments with timber wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 48.0' | alterations: | unknown |
| total length: | 49.0' | floor/decking : | timber deck |
| roadway width: | 15.4' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|---------|
| erection date: | c1910 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor : | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 115000.3.

sign. rating: 25
evaluation: NRHP non-eligible (typically configured, modestly scaled example of common structural type, poorly documented)

inventoried by: Mark Hufstetler 21 August 1992

Davis Creek Bridge

HOLT22

GENERAL DATA

| | | | |
|----------------|----------|------------------|-----------------------------------|
| structure no.: | 116002.4 | city/town: | 3.1 miles northeast of Mound City |
| county: | Holt | feature inters.: | branch of Davis Creek |
| | | cadastral grid: | S21/22, T62N, R38W |
| | | highway route: | County Road 116 |
| | | highway distr.: | 1 |
| | | current owner: | Holt County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|------------------------|
| superstructure: | steel, 4-panel, pin-connected Pratt pony truss, with steel stringer approach spans | | |
| substructure: | steel pile bent piers and abutments with timber wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 50.0' | alterations: | unknown |
| total length: | 69.0' | floor/decking : | timber deck |
| roadway width: | 13.8' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|---------|
| erection date: | c1910 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor : | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 116002.4.

| | |
|---------------|--|
| sign. rating: | 25 |
| evaluation: | NRHP non-eligible (typically configured, modestly scaled example of common structural type, poorly documented) |

inventoried by: Mark Hufstetler 21 August 1992

Davis Creek Bridge

HOLT23

GENERAL DATA

| | |
|--------------------------------|---|
| structure no.: 119001.0 | city/town: 2.3 miles northeast of Mound City |
| county: Holt | feature inters.: Davis Creek |
| | cadastral grid: S28/29, T62N, R38W |
| | highway route: County Road 119 |
| | highway distr.: 1 |
| | current owner: Holt County |

STRUCTURAL DATA

| | |
|---|---|
| superstructure: steel, 4-panel, pin-connected Pratt pony truss | |
| substructure: steel pile bent abutments with timber wingwalls | |
| span number: 1 | condition: fair |
| span length: 60.0' | alterations: unknown |
| total length: 61.0' | floor/decking : timber deck |
| roadway width: 15.8' | other features: steel angle guardrails |

HISTORICAL DATA

| |
|-------------------------------|
| erection date: c1910 |
| erection cost: unknown |
| designer: unknown |
| fabricator : unknown |
| contractor: unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 119001.0.

| |
|--|
| sign. rating: 28 |
| evaluation: NRHP non-eligible (typically configured example of common structural type, poorly documented) |

inventoried by: Mark Hufstetler 21 August 1992

Squaw Creek Bridge

HOLT24

GENERAL DATA

| | |
|--------------------------------|---|
| structure no.: 126000.5 | city/town: 3.3 miles northwest of Mound City |
| county: Holt | feature inters.: Squaw Creek |
| | cadastral grid: S13/24, T62N, R39W |
| | highway route: County Road 126 |
| | highway distr.: 1 |
| | current owner: Holt County |

STRUCTURAL DATA

| | |
|--|--|
| superstructure: steel, 7-panel, pin-connected Pratt through truss | |
| substructure: steel pile bent abutments with timber back- and wingwalls | |
| span number: 1 | condition: fair |
| span length: 120.0' | alterations: unknown |
| total length: 120.0' | floor/decking : timber deck over steel stringers |
| roadway width: 15.7' | other features: upper chord and inclined end post: 2 channels with cover and batten plates; lower chord: 2 punched rectangular eyebars; vertical: 2 channels with lacing; diagonal: 2 punched rectangular eyebars; counter: square eyebar with turnbuckle; lateral bracing: 1 angle; floor beam: I-beam, field-bolted to verticals; guardrail: 2 angles |

HISTORICAL DATA

| | |
|---|--|
| erection date: c1910 | |
| erection cost: unknown | |
| designer: unknown | |
| fabricator : Lackawanna Steel Company, Pittsburgh PA | |
| contractor: unknown | |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 126000.5; field inspection by Mark Hufstetler, 7 September 1990. |
| sign. rating: 30 | |
| evaluation: | NRHP non-eligible (typical example of common structural type) |

inventoried by: Mark Hufstetler 21 August 1992

Squaw Creek Bridge

HOLT25

GENERAL DATA

| | |
|--------------------------------|---|
| structure no.: 127001.7 | city/town: 3.5 miles northwest of Mound City |
| county: Holt | feature inters.: branch of Squaw Creek |
| | cadastral grid: S13/14, T62N, R39W |
| | highway route: County Road 127 |
| | highway distr.: 1 |
| | current owner: Holt County |

STRUCTURAL DATA

| | |
|---|---|
| superstructure: steel, 4-panel, pin-connected Pratt pony truss | |
| substructure: steel pile bent abutments with timber wingwalls | |
| span number: 1 | condition: fair |
| span length: 60.0' | alterations: unknown |
| total length: 61.0' | floor/decking : timber deck |
| roadway width: 15.6' | other features: steel angle guardrails |

HISTORICAL DATA

| |
|-------------------------------|
| erection date: c1910 |
| erection cost: unknown |
| designer: unknown |
| fabricator : unknown |
| contractor : unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 127001.7.

| |
|--|
| sign. rating: 28 |
| evaluation: NRHP non-eligible (typical example of common structural type) |

inventoried by: Mark Hufstetler 21 August 1992

Minnesota Valley Creek Bridge

HOLT26

GENERAL DATA

| | |
|--------------------------------|---|
| structure no.: 128000.3 | city/town: 5.2 miles northwest of Mound City |
| county: Holt | feature inters.: Minnesota Valley Creek |
| | cadastral grid: S1/12, T62N, R39W |
| | highway route: County Road 128 |
| | highway distr.: 1 |
| | current owner: Holt County |

STRUCTURAL DATA

| | |
|--|---|
| superstructure: steel, 5-panel, rigid-connected, 2-angle Camelback pony truss, with steel stringer approach spans | |
| substructure: steel pile bent piers, timber pile abutments and wingwalls | |
| span number: 1 | condition: fair |
| span length: 80.0' | alterations: none |
| total length: 98.0' | floor/decking : timber deck over steel stringers |
| roadway width: 14.0' | other features: upper chord and inclined end post, lower chord, vertical and diagonal: 2 angles; floor beam: I-beams, field-bolted to verticals; guardrail: 2 angles |

HISTORICAL DATA

| | |
|---|--|
| erection date: c1925 | |
| erection cost: unknown | |
| designer: unknown | |
| fabricator : Inland Steel Company, East Chicago IN | |
| contractor: unknown | |
| references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 128000.3; field inspection by Mark Hufstetler, 7 September 1990. | |
| sign. rating: 40 | |
| evaluation: NRHP non-eligible (uncommon structural type, largely undocumented) | |

inventoried by: Mark Hufstetler 21 August 1992

Wildcat Creek Bridge

HOLT27

GENERAL DATA

| | | | |
|-----------------------|----------|-------------------------|-----------------------------------|
| structure no.: | 131002.7 | city/town: | 3.0 miles northwest of Mound City |
| county: | Holt | feature inters.: | Wildcat Creek |
| | | cadastral grid: | S23, T62N, R39W |
| | | highway route: | County Road 131 |
| | | highway distr.: | 1 |
| | | current owner: | Holt County |

STRUCTURAL DATA

| | | | |
|------------------------|--|------------------------|------------------------|
| superstructure: | steel, 4-panel, pin-connected Pratt pony truss, with steel stringer approach spans | | |
| substructure: | steel pile bent piers and abutments with timber wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 60.0' | alterations: | unknown |
| total length: | 98.0' | floor/decking : | timber deck |
| roadway width: | 15.9' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|-----------------------|---------|
| erection date: | c1910 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor : | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 131002.7.

| | |
|----------------------|--|
| sign. rating: | 28 |
| evaluation: | NRHP non-eligible (typically configured example of common structural type, largely undocumented) |

inventoried by: Mark Hufstetler 21 August 1992

Wildcat Creek Bridge

HOLT28

GENERAL DATA

| | | | |
|----------------|----------|------------------|-----------------------------------|
| structure no.: | 134R01.0 | city/town: | 5.5 miles northwest of Mound City |
| county: | Holt | feature inters.: | Wildcat Creek |
| | | cadastral grid: | S3/10, T62N, R39W |
| | | highway route: | County Road 134 |
| | | highway distr.: | 1 |
| | | current owner: | Holt County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|-------------|
| superstructure: | steel, 4-panel, pin-connected Pratt pony truss | | |
| substructure: | steel pile bent abutments with timber wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 50.0' | alterations: | unknown |
| total length: | 51.0' | floor/decking : | timber deck |
| roadway width: | 15.8' | other features: | unknown |

HISTORICAL DATA

| | |
|----------------|---------|
| erection date: | c1910 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor : | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 134R01.0.

| | |
|---------------|---|
| sign. rating: | 25 |
| evaluation: | NRHP non-eligible (typically configured, modestly scaled example of common structural type, largely undocumented) |

inventoried by: Mark Hufstetler 21 August 1992

Wildcat Creek Bridge

HOLT29

GENERAL DATA

| | |
|--------------------------------|---|
| structure no.: 135000.8 | city/town: 4.7 miles northwest of Mound City |
| county: Holt | feature inters.: Wildcat Creek |
| | cadastral grid: S10/15, T62N, R39W |
| | highway route: County Road 135 |
| | highway distr.: 1 |
| | current owner: Holt County |

STRUCTURAL DATA

| | |
|--|---|
| superstructure: steel, 3-panel, pin-connected Pratt pony truss, with steel stringer approach span | |
| substructure: steel pile bent piers and abutments with timber wingwalls | |
| span number: 1 | condition: fair |
| span length: 50.0' | alterations: unknown |
| total length: 69.0' | floor/decking : timber deck |
| roadway width: 15.5' | other features: steel angle guardrails |

HISTORICAL DATA

| |
|-------------------------------|
| erection date: c1910 |
| erection cost: unknown |
| designer: unknown |
| fabricator : unknown |
| contractor : unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 135000.8.

| |
|--|
| sign. rating: 25 |
| evaluation: NRHP non-eligible (typically configured, modestly scaled example of common structural type, largely undocumented) |

inventoried by: Mark Hufstetler 21 August 1992

Little Tarkio Creek Bridge

HOLT30

GENERAL DATA

| | | | |
|----------------|----------|------------------|-----------------------------------|
| structure no.: | 145001.7 | city/town: | 7.7 miles northwest of Mound City |
| county: | Holt | feature inters.: | branch of Little Tarkio Creek |
| | | cadastral grid: | S5/6, T62N, R39W |
| | | highway route: | County Road 145 |
| | | highway distr.: | 1 |
| | | current owner: | Holt County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|------------------------|
| superstructure: | steel, 3-panel, pin-connected Pratt pony truss | | |
| substructure: | steel pile bent abutments with timber wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 45.0' | alterations: | unknown |
| total length: | 45.0' | floor/decking : | timber deck |
| roadway width: | 15.7' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|---------|
| erection date: | c1910 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor : | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 145001.7.

| | |
|---------------|---|
| sign. rating: | 20 |
| evaluation: | NRHP non-eligible (typically configured, modestly scaled example of common structural type, largely undocumented) |

inventoried by: Mark Hufstetler 21 August 1992

Grand Avenue Creek Bridge

HOLT31

GENERAL DATA

| | |
|--------------------------------|--|
| structure no.: 148500.1 | city/town: Forest City |
| county: Holt | feature inters.: Grand Avenue Creek |
| | cadastral grid: S32, T60N, R38W |
| | highway route: County Road 148 |
| | highway distr.: 1 |
| | current owner: Holt County |

STRUCTURAL DATA

| | |
|---|---|
| superstructure: steel, 3-panel, pin-connected Pratt pony truss | |
| substructure: steel pile bent abutments with timber wingwalls | |
| span number: 1 | condition: fair |
| span length: 40.0' | alterations: none |
| total length: 41.0' | floor/decking : timber deck over steel stringers |
| roadway width: 13.8' | other features: steel angle guardrails |

HISTORICAL DATA

| | |
|--|--|
| erection date: c1910 | |
| erection cost: unknown | |
| designer: unknown | |
| fabricator : unknown | |
| contractor : unknown | |
| references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 148500.1. | |
| sign. rating: 20 | |
| evaluation: NRHP non-eligible (typically configured, modestly scaled example of common structural type, largely undocumented) | |

Inventoried by: Mark Hufstetler 21 August 1992

Grand Avenue Creek Bridge

HOLT32

GENERAL DATA

| | |
|--------------------------------|--|
| structure no.: 148500.2 | city/town: Forest City |
| county: Holt | feature inters.: Grand Avenue Creek |
| | cadastral grid: S32, T60N, R38W |
| | highway route: County Road 148 |
| | highway distr.: 1 |
| | current owner: Holt County |

STRUCTURAL DATA

| | |
|---|---|
| superstructure: steel, 4-panel, pin-connected Pratt pony truss | |
| substructure: steel pile bent abutments with timber wingwalls | |
| span number: 1 | condition: fair |
| span length: 60.0' | alterations: none |
| total length: 61.0' | floor/decking : timber deck |
| roadway width: 15.8' | other features: steel angle guardrails |

HISTORICAL DATA

| |
|-------------------------------|
| erection date: c1910 |
| erection cost: unknown |
| designer: unknown |
| fabricator : unknown |
| contractor : unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 148500.2.

| |
|---|
| sign. rating: 28 |
| evaluation: NRHP non-eligible (typically configured example of common structural type, largely undocumented) |

inventoried by: Mark Hufstetler 21 August 1992

Tarkio River Bridge

HOLT33

GENERAL DATA

| | |
|--------------------------------|--|
| structure no.: 165000.1 | city/town: 3.0 miles northwest of Craig |
| county: Holt | feature inters.: Tarkio River |
| | cadastral grid: S4/9, T62N, R40W |
| | highway route: County Road 165 |
| | highway distr.: 1 |
| | current owner: Holt County |

STRUCTURAL DATA

| | |
|--|--|
| superstructure: steel, 5-panel, pin-connected Pratt through truss, with steel stringer approach spans | |
| substructure: concrete pier with steel pile bent abutments | |
| span number: 1 | condition: fair |
| span length: 100.0' | alterations: none |
| total length: 158.0' | floor/decking : timber deck over steel stringers |
| roadway width: 13.6' | other features: upper chord and inclined end post: 2 channels with cover and batten plates; lower chord: 2 punched rectangular eyebars; vertical: 2 channels with lacing; diagonal: 2 punched rectangular eyebars; counter: round eyerod with turnbuckle; lateral bracing and strut: 2 angles; floor beam: I-beam, field-bolted to verticals; guardrail: 2 steel channels |

HISTORICAL DATA

| | |
|---|--|
| erection date: c1915 | |
| erection cost: unknown | |
| designer: unknown | |
| fabricator : Jones and Laughlin Steel Company, Pittsburgh PA | |
| contractor : unknown | |
| references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 165000.1; field inspection by Mark Hufstetler, 7 September 1990. | |
| sign. rating: 27 | |
| evaluation: NRHP non-eligible (typical example of common structural type, inadequately documented) | |

inventoried by: Mark Hufstetler 21 August 1992

Kunkel Mill Bridge

HOLT34

GENERAL DATA

| | |
|--------------------------------|---|
| structure no.: 233000.7 | city/town: 4.6 miles northwest of Oregon |
| county: Holt | feature inters.: Kimsey Creek |
| | cadastral grid: S34, T61N, R38W |
| | highway route: County Road 233 |
| | highway distr.: 1 |
| | current owner: Holt County |

STRUCTURAL DATA

| | |
|--|---|
| superstructure: steel, 5-panel, pin-connected Pratt pony truss, with steel stringer approach span | |
| substructure: steel pile bent piers and abutments with timber wingwalls | |
| span number: 1 | condition: fair |
| span length: 65.0' | alterations: unknown |
| total length: 103.0' | floor/decking : timber deck |
| roadway width: 11.7' | other features: steel angle guardrails |

HISTORICAL DATA

| | |
|--|--|
| erection date: 1919 | |
| erection cost: \$1678.00 | |
| designer: Kansas City Bridge Company, Kansas City MO | |
| fabricator : Kansas City Bridge Company, Kansas City MO | |
| contractor: Kansas City Bridge Company, Kansas City MO | |
| references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 233000.7; Holt County Court Record, Book R: page 335 (18 July 1919), page 349 (22 September 1919) - located at the Holt County Courthouse, Oregon MO. | |
| sign. rating: 42 | |
| evaluation: NRHP non-eligible (typical example of common structural type) | |

inventoried by: Mark Hufstetler 21 August 1992

Hog Creek Bridge

HOLT36

GENERAL DATA

| | |
|--------------------------------|--|
| structure no.: 243000.8 | city/town: 8.0 miles east of Mound City |
| county: Holt | feature inters.: Hog Creek |
| | cadastral grid: S4, T61N, R37W |
| | highway route: County Road 243 |
| | highway distr.: 1 |
| | current owner: Holt County |

STRUCTURAL DATA

| | |
|---|---|
| superstructure: steel, 4-panel, pin-connected Pratt pony truss, with steel stringer approach spans | |
| substructure: steel pile bent piers and abutments with timber wingwalls | |
| span number: 1 | condition: fair |
| span length: 50.0' | alterations: unknown |
| total length: 100.0' | floor/decking : timber deck |
| roadway width: 13.6' | other features: steel angle guardrails |

HISTORICAL DATA

| | |
|--|--|
| erection date: c1910 | |
| erection cost: unknown | |
| designer: unknown | |
| fabricator : unknown | |
| contractor: unknown | |
| references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 243000.8. | |
| sign. rating: 25 | |
| evaluation: NRHP non-eligible (typically configured, modestly scaled example of common structural type, largely undocumented) | |

inventoried by: Mark Hufstetler 21 August 1992

Hickory Creek Bridge

HOLT37

GENERAL DATA

| | | | |
|----------------|----------|------------------|-------------------------------|
| structure no.: | 247000.8 | city/town: | 7.3 miles northeast of Oregon |
| county: | Holt | feature inters.: | Hickory Creek |
| | | cadastral grid: | S17/20, T61N, R37W |
| | | highway route: | County Road 247 |
| | | highway distr.: | 1 |
| | | current owner: | Holt County |

STRUCTURAL DATA

| | | | |
|-----------------|---|-----------------|------------------------|
| superstructure: | steel, 4-panel, pin-connected Pratt pony truss | | |
| substructure: | steel pile bent abutments with timber wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 60.0' | alterations: | unknown |
| total length: | 61.0' | floor/decking : | timber deck |
| roadway width: | 15.8' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|---------|
| erection date: | c1910 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 247000.8.

| | |
|---------------|--|
| sign. rating: | 28 |
| evaluation: | NRHP non-eligible (typically configured example of common structural type, largely undocumented) |

Inventoried by: Mark Hufstetler 21 August 1992

Leach Mill Bridge

HOLT38

GENERAL DATA

| | |
|--------------------------------|---|
| structure no.: 257001.6 | city/town: 8.0 miles northeast of Oregon |
| county: Holt | feature inters.: Nodaway River |
| | cadastral grid: S12, T60N, R37W |
| | highway route: County Road 257 |
| | highway distr.: 1 |
| | current owner: Holt County / Andrew County |

STRUCTURAL DATA

| | |
|---|---|
| superstructure: steel, 8-panel, pin-connected Pratt through truss, with pin-connected Pratt pony truss approach span | |
| substructure: concrete-filled steel cylinder piers; steel pile bent abutments with timber back- and wingwalls | |
| span number: 2 | condition: fair |
| span length: 72.0' | alterations: none |
| total length: 130.0' | floor/decking : timber deck over steel stringers |
| roadway width: 15.7' | other features: through truss: upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 punched rectangular eyebars; vertical: 2 channels with lacing; diagonal: 2 punched rectangular eyebars; counter: round eyerod with turnbuckle; floor beam: I-beam, field-bolted to verticals; guardrail: 1 angle; pony truss: upper chord and inclined end post: 2 channels with cover and batten plates; lower chord: 2 punched rectangular eyebars; vertical: 4 angles with lacing; diagonal: 2 punched rectangular eyebars; counter: round eyerod with turnbuckle; floor beam: I-beam, field-bolted to verticals; guardrail: steel channel |

HISTORICAL DATA

| |
|---|
| erection date: 1913 |
| erection cost: \$4225.00 (contract amount) |
| designer: unknown |
| fabricator : Inland Steel Company, East Chicago IN; Lackawanna Steel Company, Pittsburgh PA (verticals) |
| contractor: A.S. Seybert |

Leach Mill Bridge

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 257001.6; original plans "for Bridge across Nodaway River at Leach Mills" (No 30, 1913), and contract with A.S. Seybert (1913) - located in old bridge specifications box **Bridge Contracts and Bonds 1911**, at the Andrew County Courthouse, Savannah MO; field inspection by Mark Hufstetler, 7 September 1990.

sign. rating: 37

evaluation: NRHP non-eligible (typically configured, short-span example of mainstay structural type)

inventoried by: Mark Hufstetler and Michelle Crow-Dolby 21 August 1992

Rock Creek Bridge

HOLT39

GENERAL DATA

| | |
|--------------------------------|--|
| structure no.: 280000.5 | city/town: 2.3 miles east of Oregon |
| county: Holt | feature inters.: Rock Creek |
| | cadastral grid: S31/36, T60N, R37/38W |
| | highway route: County Road 280 |
| | highway distr.: 1 |
| | current owner: Holt County |

STRUCTURAL DATA

| | |
|--|---|
| superstructure: steel, 3-panel, pin-connected Pratt pony truss, with steel stringer approach span | |
| substructure: steel pile bent piers and abutments with timber wingwalls | |
| span number: 1 | condition: fair |
| span length: 50.0' | alterations: unknown |
| total length: 73.0' | floor/decking : timber deck |
| roadway width: 15.7' | other features: steel angle guardrails |

HISTORICAL DATA

| | |
|--|--|
| erection date: c1910 | |
| erection cost: unknown | |
| designer: unknown | |
| fabricator : unknown | |
| contractor: unknown | |
| references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 280000.5. | |
| sign. rating: 25 | |
| evaluation: NRHP non-eligible (typically configured, modestly scaled example of common structural type, largely undocumented) | |

Inventoried by: Mark Hufstetler 21 August 1992

Grand Avenue Creek Bridge

HOLT40

GENERAL DATA

| | |
|--------------------------------|---|
| structure no.: 291001.4 | city/town: 1.7 miles northwest of Oregon |
| county: Holt | feature inters.: Grand Avenue Creek |
| | cadastral grid: S21, T60N, R38W |
| | highway route: County Road 291 |
| | highway distr.: 1 |
| | current owner: Holt County |

STRUCTURAL DATA

| | |
|--|---|
| superstructure: steel, 4-panel, pin-connected Pratt pony truss, with steel stringer approach span | |
| substructure: steel pile bent piers and abutments with timber wingwalls | |
| span number: 1 | condition: fair |
| span length: 60.0' | alterations: unknown |
| total length: 76.0' | floor/decking : timber deck over steel stringers |
| roadway width: 13.6' | other features: steel angle guardrails |

HISTORICAL DATA

| |
|-------------------------------|
| erection date: c1910 |
| erection cost: unknown |
| designer: unknown |
| fabricator : unknown |
| contractor: unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 291001.4.

| |
|---|
| sign. rating: 28 |
| evaluation: NRHP non-eligible (typically configured example of common structural type, largely undocumented) |

inventoried by: Mark Hufstetler 21 August 1992

Kimsey Creek Bridge

HOLT41

GENERAL DATA

| | |
|--------------------------------|---|
| structure no.: 292000.6 | city/town: 3.4 miles northwest of Oregon |
| county: Holt | feature inters.: branch of Kimsey Creek |
| | cadastral grid: S8/9, T60N, R38W |
| | highway route: County Road 292 |
| | highway distr.: 1 |
| | current owner: Holt County |

STRUCTURAL DATA

| | |
|---|---|
| superstructure: steel, 4-panel, pin-connected Pratt pony truss, with steel stringer approach spans | |
| substructure: steel pile bent piers and abutments with timber wingwalls | |
| span number: 1 | condition: fair |
| span length: 60.0' | alterations: unknown |
| total length: 91.0' | floor/decking: timber deck |
| roadway width: 13.8' | other features: steel angle guardrails |

HISTORICAL DATA

| | |
|--|--|
| erection date: c1910 | |
| erection cost: unknown | |
| designer: unknown | |
| fabricator: unknown | |
| contractor: unknown | |
| references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 292000.6. | |
| sign. rating: 28 | |
| evaluation: NRHP non-eligible (typically configured example of common structural type, largely undocumented) | |

inventoried by: Mark Hufstetler 21 August 1992

Kimsey Creek Bridge

HOLT43

GENERAL DATA

| | |
|--------------------------------|---|
| structure no.: 301R01.1 | city/town: 3.6 miles northwest of Oregon |
| county: Holt | feature inters.: Kimsey Creek |
| | cadastral grid: S8/17, T60N, R38W |
| | highway route: County Road 301 |
| | highway distr.: 1 |
| | current owner: Holt County |

STRUCTURAL DATA

| | |
|---|---|
| superstructure: steel, 5-panel, pin-connected Pratt pony truss, with steel stringer approach spans | |
| substructure: steel pile bent piers and abutments with timber wingwalls | |
| span number: 1 | condition: fair |
| span length: 75.0' | alterations: unknown |
| total length: 106.0' | floor/decking : timber deck |
| roadway width: 16.1' | other features: steel angle guardrails |

HISTORICAL DATA

| |
|-------------------------------|
| erection date: c1910 |
| erection cost: unknown |
| designer: unknown |
| fabricator : unknown |
| contractor: unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 301R01.1.

| |
|---|
| sign. rating: 28 |
| evaluation: NRHP non-eligible (typically configured example of common structural type, largely undocumented) |

Inventoried by: Mark Hufstetler 21 August 1992

Mill Creek Bridge

HOLT44

GENERAL DATA

| | | | |
|----------------|----------|------------------|---------------------------|
| structure no.: | 321000.9 | city/town: | 4.3 miles south of Oregon |
| county: | Holt | feature inters.: | Mill Creek |
| | | cadastral grid: | S15/22, T59N, R38W |
| | | highway route: | County Road 321 |
| | | highway distr.: | 1 |
| | | current owner: | Holt County |

STRUCTURAL DATA

| | | | |
|-----------------|--|-----------------|------------------------|
| superstructure: | steel, 5-panel, pin-connected Pratt pony truss | | |
| substructure: | steel pile bent piers and timber wingwalls | | |
| span number: | 1 | condition: | fair |
| span length: | 75.0' | alterations: | unknown |
| total length: | 118.0' | floor/decking : | timber deck |
| roadway width: | 16.0' | other features: | steel angle guardrails |

HISTORICAL DATA

| | |
|----------------|---------|
| erection date: | c1910 |
| erection cost: | unknown |
| designer: | unknown |
| fabricator : | unknown |
| contractor: | unknown |

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 321000.9.

sign. rating: 28

evaluation: NRHP non-eligible (typically configured example of common structural type, largely undocumented)

inventoried by: Mark Hufstetler 21 August 1992

Schlotz Branch Bridge

HOLT46

GENERAL DATA

| | |
|--------------------------------|---|
| structure no.: 328000.0 | city/town: 2.4 miles south of Oregon |
| county: Holt | feature inters.: Schlotz Branch |
| | cadastral grid: S10/11, T59N, R38W |
| | highway route: County Road 328 |
| | highway distr.: 1 |
| | current owner: Holt County |

STRUCTURAL DATA

| | |
|---|---|
| superstructure: steel, 3-panel, pin-connected Pratt pony truss | |
| substructure: steel pile bent abutments with timber wingwalls | |
| span number: 1 | condition: fair |
| span length: 40.0' | alterations: unknown |
| total length: 41.0' | floor/decking : timber deck |
| roadway width: 13.4' | other features: steel angle guardrails |

HISTORICAL DATA

| | |
|-------------------------------|---|
| erection date: c1910 | |
| erection cost: unknown | |
| designer: unknown | |
| fabricator : unknown | |
| contractor: unknown | |
| references: | Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 328000.0. |
| sign. rating: 20 | |
| evaluation: | NRHP non-eligible (typically configured, small-scale example of common structural type, largely undocumented) |

inventoried by: Mark Hufstetler 21 August 1992

Forbes Creek Bridge

HOLT48

GENERAL DATA

| | | | |
|----------------|----------|------------------|-----------------|
| structure no.: | 336002.4 | city/town: | Forbes |
| county: | Holt | feature inters.: | Forbes Creek |
| | | cadastral grid: | S29, T59N, R37W |
| | | highway route: | County Road 336 |
| | | highway distr.: | 1 |
| | | current owner: | Holt County |

STRUCTURAL DATA

superstructure: steel, 3-panel, pin-connected Pratt half-hip pony truss
substructure: unknown

| | | | |
|----------------|-------|-----------------|------------------------|
| span number: | 1 | condition: | fair |
| span length: | 45.0' | alterations: | unknown |
| total length: | 46.0' | floor/decking : | timber deck |
| roadway width: | 13.8' | other features: | steel angle guardrails |

HISTORICAL DATA

erection date: c1910
erection cost: unknown
designer: unknown
fabricator : unknown
contractor: unknown

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 336002.4.

sign. rating: 20
evaluation: NRHP non-eligible (typically configured, small-scale example of common structural type, largely undocumented)

inventoried by: Mark Hufstetler 21 August 1992

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Rulo Bridge
MHTD: L97

HOLT02

DATE(S) OF CONSTRUCTION

1938-39

LOCATION

U.S. Highway 159 over Missouri River; S33, T61N, R40W
5.3 miles west Fortescue; Holt / Richardson County, Missouri

USE (ORIGINAL / CURRENT)

highway bridge / highway bridge

RATING NRHP listed (score: 65)

CONDITION

good

OWNER

Missouri Highway and Transportation Department / Nebraska Department of Roads

span number: 3
span length: 375.0'
total length: 859.0'
roadway wdt.: 20.0'

superstructure: steel, 16-panel rigid-connected Pennsylvania through truss, with rigid-connected Warren deck trusses
substructure: concrete abutments and wingwalls; concrete two-legged piers and solid channel piers
floor/decking: concrete deck over I-beam transverse joists, which rest on I-beam stringers
other features: upper chord and inclined end post: 2 channels with cover plate and double lacing; lower chord: 2 channels with lacing; vertical: built up I-beam girder with lacing or 4 angles with lacing; diagonal: 2 channels with lacing; lateral bracing: 4 angles with lacing; strut: 4 angles with lacing; floor beam: I-beams; guardrail: 3 angles; builder's plate: FEDERAL WORKS AGENCY / PUBLIC WORKS ADMINISTRATION / JOHN M. CARMODY / FEDERAL WORKS ADMINISTRATOR / FRANKLIN D. ROOSEVELT / PRESIDENT OF THE UNITED STATES / MISSOURI RIVER BRIDGE / 1939, and RICHARDSON COUNTY, NEBRASKA / KANSAS CITY BRIDGE COMPANY / MISSOURI VALLEY BRIDGE AND IRON COMPANY / CONTRACTORS / HARRINGTON AND CORTELYOU / CONSULTING ENGINEERS

The Rulo Bridge carries U.S. Highway 159 over the Missouri River, some five miles west of Fortescue, Missouri. The bridge is located on the Nebraska/Missouri line, at the east edge of Section 17, T1N, T18E, Rulo Precinct. With a total length of 859 feet, the structure is comprised of ten riveted, Warren deck truss approaches (five on each end of the bridge), and three riveted Pennsylvania through trusses over the river's main channel. Each through truss extends 375 feet in length, with a roadway width of 20 feet and an overhead clearance of approximately 16 feet.

A group led by John C. Mullen of Falls City, Nebraska, laid the groundwork for the Rulo Bridge in 1933, when it secured permission from Congress to construct and operate a toll bridge over the Missouri River at Rulo. Either in that year or earlier, the group also engaged the services of the Kansas City engineering firm, Harrington and Cortelyou, to design the multiple-span structure. The plans were approved by the War Department in May 1933. Despite these efforts, it is not known whether Mullen and his associates ever intended to build the bridge. On February 14, 1934, Mullen approached Nebraska's Richardson County Board, offering to assign the county "all his rights, interests, contracts, and franchises which he possesses for the construction of a vehicular traffic bridge at Rulo."

The county accepted Mullen's offer, but only on the condition that it not have to pay for construction. Considering that the bridge was estimated to cost between \$700,000 and \$800,000, this was no small caveat. Fortunately, Mullen had a solution, proposing that the county apply for a federal grant and loan. The board was careful to stipulate that the loan would only be repaid through bridge tolls, at no expense to the county. The county clerk noted in his minutes:

It was explained that [Richardson County could]... obtain a grant from the Reconstruction Finance Corporation of the Federal Government to build such bridge, in the amount of about \$800,000, of which thirty percent of the portion thereof that is expended for labor and material would... be an outright gift, the balance to be repaid with interest of such bonds as debenture bonds only, the same to be retired from revenue from the use of such bridge so that the County of Richardson would not be subject to any deficiency judgement in the case that such bridge does not pay out...

Negotiations appear to have dragged on for several years, but in September 1938, the Public Works Administration agreed to fund 45 percent of the bridge's construction, the total grant not to exceed \$326,250.00. To cover the balance, the county released a bond issue which was to be repaid through bridge revenue. With funding secured, the board officially entered a contract with Harrington and Cortelyou, who had been operating under a verbal agreement. The firm was to prepare all plans and supervise the project for six percent of the cost of construction. On October 7, the board called for construction bids. The announcement stipulated that no bid was to exceed \$625,000.00 and stated that "the structure comprises, from east to west, 815 ft. of graded approach, five steel deck truss spans, each 100 ft. long, three steel through truss spans, each 376.5 ft. long, 5 steel deck truss spans, each 100 ft. long and 352 ft. of graded approach. A concrete floor slab is provided on all the truss spans and concrete paving on the graded approaches."

The county opened bids on November 7, 1938. Of the eleven bids received, the board selected the joint proposal of the Kansas City Bridge Company and the Missouri Valley Bridge and Iron Company, low bidders at \$599,425.35. In an effort to provide local employment during the Depression, the county required that the contractors hire Richardson County residents whenever possible. Construction apparently began immediately and continued through 1939. The Empire Construction Company of Omaha was subcontracted to grade the approaches, and the Interstate Construction Company of Lincoln installed the bridge lighting. The Rulo Bridge apparently opened to traffic in November 1939, and the Richardson County Board officially accepted the toll bridge on April 2, 1940. The total cost of construction amounted to \$651,296.01.

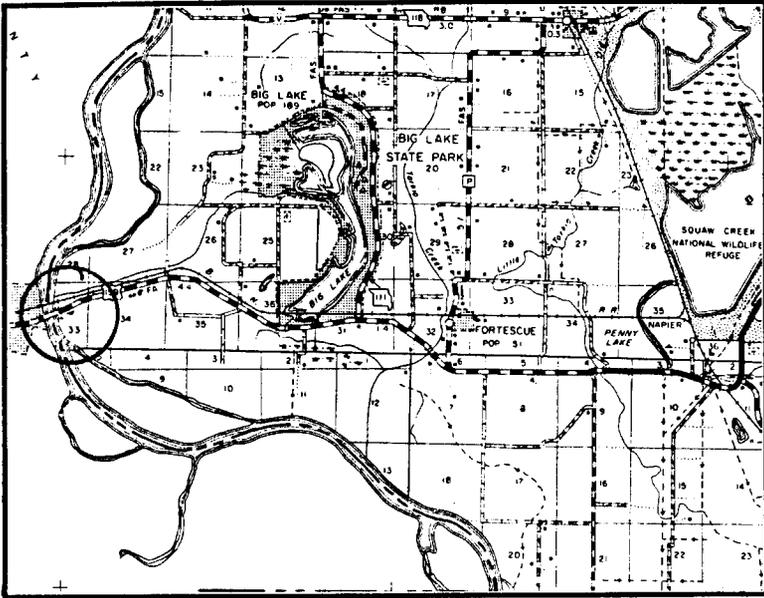
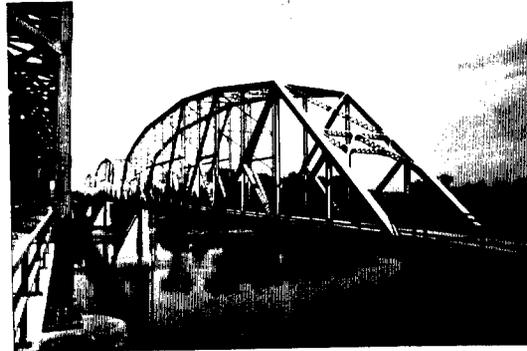
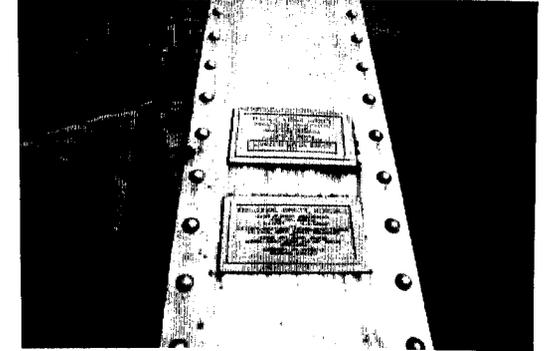
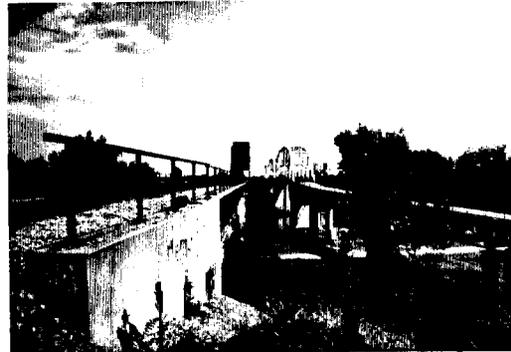
In 1945 an engineer from the Nebraska Highway Department observed that "the steel portions of the structure appear in excellent condition, although due to war conditions, the painting of the steel has been deferred and the paint coat is not in as good a condition as desired. This, no doubt, will be remedied when materials and labor again become available." More seriously, the writer also reported that the west approach fill had settled and "this has occasioned some movement in the abutment and in the truss span at the west end of the bridge. This movement is sufficient to entirely close the expansion joint between the trusses at the first pier." The engineer presumably was referring to the first approach span, and not the westernmost through truss. The state estimated the cost of the repairs at \$10,000.00, and the work was probably done in the late 1940s. Aside from these minor repairs, no major work appears to have been performed on the bridge after its opening.

In October 1966, Richardson County informed the State of Nebraska and Missouri that "there appears at this time [to be]... sufficient funds available for a premature retirement of the [bridge construction] bonds on or before October 1, 1967." Although tolls would no longer be required to repay the bridge bonds, they would be still collected to cover the cost of maintenance. Noting that Interstate 29 was currently being built in Missouri and that an access road was planned from the bridge, the board urged the states to assume ownership and make the Rulo Bridge a toll-free crossing to facilitate travel. The board stated: "It would be beneficial to the residents of Richardson County, Nebraska, and to the residents of Northwest Missouri that the bridge be made a free bridge...This is particularly true in light of the construction of Highway I 29 through Holt County, Missouri, and the proposed plans to build an access road from I 29 to the Rulo Bridge."

The State of Nebraska and Missouri agreed to assume joint ownership of the Rulo Bridge in 1969. Prior to the transfer, Richardson County contracted with the Capital Bridge Company to repair and waterproof the bridge's concrete surfaces, according to plans and specifications prepared by the State of Nebraska. The total cost of the project amounted to \$14,775.00. To celebrate the new ownership, the county board declared May 15 and June 19 as "free bridge" days, temporarily allowing traffic to cross the bridge free of charge. On June 24, 1969, the Richardson County Board signed the papers transferring ownership of the Rulo Bridge to the States of Missouri and Nebraska. A regionally important crossing of the Missouri River, the Rulo Bridge is significant for its long-span river bridge design.

NAME(S) OF STRUCTURE

Rulo Bridge

PHOTOS AND SKETCH MAP OF LOCATION**LOCATION MAP**TAKEN FROM MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
GENERAL HIGHWAY MAP**SOURCES**

Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number L97; Nebraska Department of Roads and Irrigation, **Twenty-Third Biennial Report**, 1939-40, page 23; Henry G. Schlitt, "Missouri River Bridges, Report #2," 7 November 1945, located in Bridge Division, Nebraska Department of Roads, Lincoln NE; Proceedings of the Richardson County Commissioners, Book 13: pages 673-74 (14 February 1934); Book 14: page 276 (10 September 1935), pages 284-85 (24 September 1935), page 419 (23 June 1936), pages 52-53 (29 June 1938); Book 15: pages 67-70 (28 July 1938), pages 111-13 (13 September 1938), page 161 (29 November 1938), page 183 (17 January 1939), page 239 (25 July 1939), page 276 (7 November 1939), page 324 (2 April 1940); Book 16: page 73 (11 October 1966); Book 20: page 106 (17 January 1967), page 363 (10 December 1968), page 371 (7 January 1969), page 389 (25 February 1969), page 426 (24 June 1969)- located in Richardson County Courthouse, Falls City NE; field inspection by Demian Hess, 13 March 1990; field inspection by Mark Hufstetler, 7 September 1990.

INVENTORIED BY

Mark Hufstetler

AFFILIATION

Fraserdesign, Loveland CO

DATE

21 August 1992

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Leach Mill Bridge
MHTD: 257001.6

HOLT38

DATE(S) OF CONSTRUCTION

1913

LOCATION

County Road 257 over Nodaway River; S12, T60N, R37W
8.0 miles northeast of Oregon; Holt County, Missouri

USE (ORIGINAL / CURRENT)

roadway bridge / roadway bridge

RATING NRHP non-eligible (score: 37)

CONDITION

fair

OWNER

Holt County / Andrew County

span number: 2
span length: 72.0'
total length: 130.0'
roadway wdt.: 15.7'

superstructure: steel, 8-panel, pin-connected Pratt through truss, with pin-connected Pratt pony truss approach span
substructure: concrete-filled steel cylinder piers; steel pile bent abutments with timber back- and wingwalls
floor/decking: timber deck over steel stringers
other features: **through truss:** upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 punched rectangular eyebars; vertical: 2 channels with lacing; diagonal: 2 punched rectangular eyebars; counter: round eyerod with turnbuckle; floor beam: I-beam, field-bolted to verticals; guardrail: 1 angle; **pony truss:** upper chord and inclined end post: 2 channels with cover and batten plates; lower chord: 2 punched rectangular eyebars; vertical: 4 angles with lacing; diagonal: 2 punched rectangular eyebars; counter: round eyerod with turnbuckle; floor beam: I-beam, field-bolted to verticals; guardrail: steel channel

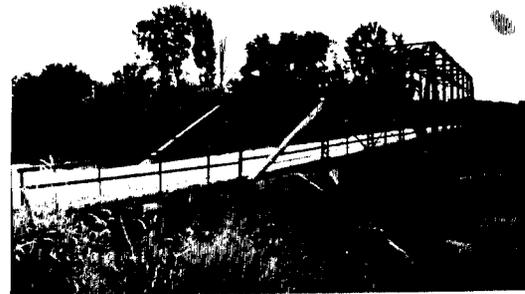
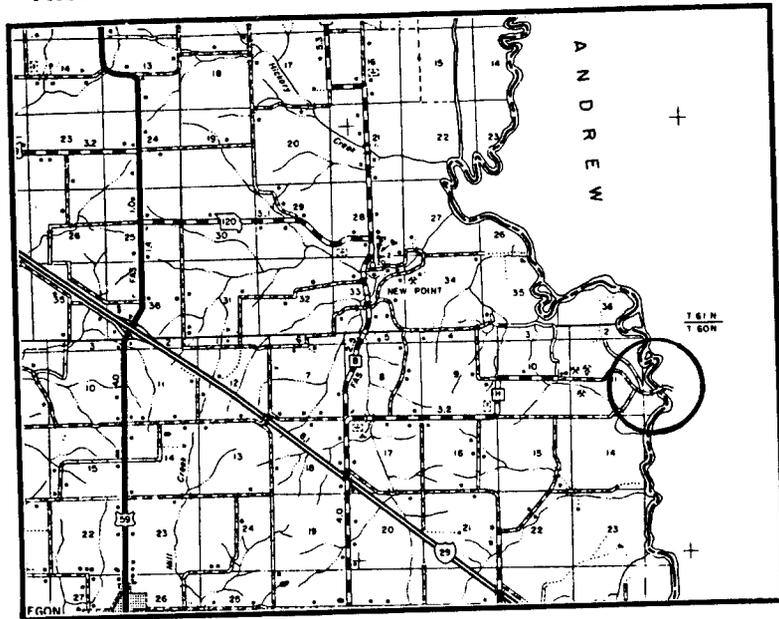
Located on the line between Holt and Andrew Counties northeast of Oregon, this pin-connected truss bridge carries County Road 257 in Holt County and County Road 48 in Andrew County over the Nodaway River. Consisting of both a Pratt through truss on the east end and a Pratt pony truss on the west end, the structure is supported by concrete-filled cylinder piers and steel pile bent abutments. The Leach Mill Bridge—as it is known locally—dates to 1913. In June of that year a contract was let to A.S. Seybert to erect the bridge, which, according to the agreement, was to be completed by the end of the year. The contract also stipulated that Seybert would furnish all necessary material and keep the bridge in good repair for two years after construction. Presumably the two counties split the contract cost of \$4225.00, although county minutes do not specifically refer to this. Presumably completed later in 1913, the Leach Mill Bridge continues to carry vehicular traffic in its rural setting while maintaining a high degree of structural integrity.

From the early 1880s until the establishment of state bridge standards in the late 1920s, the pin-connected Pratt through truss was almost the exclusive structural type for medium-span roadway crossings in Missouri. Its standardized fabrication, economy of materials and ease of erection made it a mainstay among the various state and regional bridge companies. Thousands of such trusses were built throughout the state during this period, and numerous examples remain in place today. With its 70-foot span and 1913 erection date, the Leach Mill Bridge typifies Pratt truss construction in Missouri.

NAME(S) OF STRUCTURE

Leach Mill Bridge

PHOTOS AND SKETCH MAP OF LOCATION



LOCATION MAP

TAKEN FROM MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
GENERAL HIGHWAY MAP

SOURCES

Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 257001.6; original plans "for Bridge across Nodaway River at Leach Mills" (No 30, 1913), and contract with A.S. Seybert (1913) - located in old bridge specifications box **Bridge Contracts and Bonds 1911**, at the Andrew County Courthouse, Savannah MO; field inspection by Mark Hufstetler, 7 September 1990.

INVENTORIED BY

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AFFILIATION

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DATE

21 August 1992