# **WORTH COUNTY**

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

Inv. No.	MHTD	Bridge Name	Descrip	tion
WORT01	060R01.5	X Branch Bridge	1- 50' c1910	
*WORT02	103001.0	Marlowe Creek Bridge	1- 90' c1885	pinned Pratt through truss
WORT03	116000.3	Middle Fork Bridge	2- 80' c1915	
WORT04	140R00.3	East Fork Bridge	1- 64' 1908	1 1
WORT05	171000.8	Little Rock Creek Bridge	1700	(replaced)
		Savacool Bridge	1- 44' 1 <b>905</b>	pinned Pratt pony truss
*WORT07	251001.0	Lotts Creek Bridge	-	riveted polyg. Warren pony truss
WORT08	254000.3	Sand Creek Bridge	1- 40' c1910	1 1 <i>1</i>
WORT09	258R00.1	Lotts Creek Bridge	(1)10	(replaced)
		Grand River Bridge	1- 60' c <b>1910</b>	pinned Pratt pony truss
WORT11	281001.9	Middle Fork Bridge	1- <b>100'</b> 1932	riveted Warren pony truss

## **EXCLUDED:**

Pratt pony truss 037000.0

Warren pony truss

G 795	Н 617	J 840	X 111	112000.2	119000.1	261001.2
Steel string	7er					
S 50	T 898	X 112	X 141	X 142	X 970	001000.2
002000.8	011000.3	022000.4	023000.1	035000.2	036000.8	053000.3
059000.4	059001.0	059001.6	062R00.7	062000.1	071000.8	076R00.4
076R01.3	081000.6	0.000880	091000.4	098R00.2	106000.7	111001.7
125001.1	129000.3	133001.7	140000.2	144001.1	150001.3	151001.1
155000.1	164000.9	170000.8	180000.9	200000.2	203000.2	207000.9
209000.1	209000.7	216000.9	228000.1	246000.8	257R01.0	260000.2
263000.8						

Concrete girder J 24

Concrete box culvert

H 649 H 650 H 883

# WORTH COUNTY

# **SUMMARY:**

	Primary	Secondary	Urban	Other	Total
Included Excluded	0 14	9 48	0	0	9 62
	14	57	0	0	71 structures

# X Branch Bridge

### WORT01

### **GENERAL DATA**

structure no.: 060R01.5

city/town:

8.9 miles southwest of Grant City

county:

Worth

feature inters.: X Branch

cadastral grid: S11/14, T65N, R13W

highway route: County Road 60

highway distr.: 1

current owner: Worth County

### STRUCTURAL DATA

superstructure: steel, 3-panel, pin-connected Pratt pony truss

substructure: timber abutments and wingwalls

span number:

condition:

1 50.0 span length:

alterations:

unknown floor/decking: timber deck

63.0' total length: roadway width: 13.9'

other features: unknown

#### HISTORICAL DATA

erection date: c1910

erection cost: Midland Bridge Company, Kansas City MO (probable)

designer: fabricator: Midland Bridge Company, Kansas City MO (probable) Midland Bridge Company, Kansas City MO (probable)

contractor:

unknown

references:

Missouri Highway and Transportation Department, Structure Inventory

and Appraisal: Structure Number 060R01.5.

sign. rating:

evaluation:

NRHP non-eligible (typically configured, poorly documented example of

common structural type)

inventoried by: Mark Hufstetler

# Marlowe Creek Bridge

### WORT02

### **GENERAL DATA**

structure no.: 103001.0

county: Worth

hy/town: 4.0 miles southwest of Grant City

feature inters.: Marlowe Creek cadastral grid: S13, T65N, R32W highway route: County Road 103

highway distr.: 1

current owner: Worth County

# STRUCTURAL DATA

superstructure: wrought iron or steel, 4-panel, pin-connected Pratt through truss, with

timber stringer approach spans

substructure: timber pile bent abutments, wingwalls and piers

span number: 1 condition: good

span length: 90.0' atterations: converted from railroad to roadway use

total length: 228.0' floor/decking: timber deck over steel stringers roadway width: 10.0' other features: upper chord / inclined end nost:

other teatures: upper chord / inclined end post: 2 face-to-face channels with cover plate and double lacing; lower chord: 2 face-to-face channels with lacing; vertical: 2 face-to-face channels with lacing (2 looped square eyebars at the hip); diagonal: 2 punched rectangular eyebars; counter: square eyebar with turnbuckle; lateral bracing: square rod with threaded ends; floor beam: riveted plate girder, riveted to

vertical

### HISTORICAL DATA

erection date: c1885 erection cost: unknown designer: unknown

fabricator: unknown

contractor: Chicago, Burlington and Quincy Railroad bridge crew (probable)

references: Missouri Highway and Transportation Department, Structure Inventory

and Appraisal: Structure Number 103001.0; Missouri Highway and Transportation Department, "Missouri Rail Plan, 1984 Update," page 4-

1; field inspection by Mark Hufstetler, 10 September 1990.

sign. rating: 43

evaluation: NRHP possibly eligible (well-preserved, early railroad truss, converted in

place with the adjacent right-of-way to roadway use)

inventoried by: Mark Hufstetler 31 July 1992

# Middle Fork Bridge

## WORT03

#### **GENERAL DATA**

structure no.: 116000.3

city/town:

5.9 miles southwest of Grant City

Worth county:

feature Inters.: Middle Fork of Grand River

cadastral grid: S30/31, T65N, R31W highway route: County Road 116

highway distr.: 1

current owner: Worth County

### STRUCTURAL DATA

superstructure: steel, pin-connected Pratt pony truss, with steel stringer approach spans

substructure: steel pile bent abutments and piers

span number:

condition:

span length:

80.0 alterations: two dissimilar trusses, moved to this site

total length: 162.0' floor/decking: timber deck

roadway width: 14.0'

other features: unknown

#### 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 116000.3.

sign. rating:

evaluation:

NRHP non-eligible (two dissimilar trusses, moved to this site)

inventoried by: Mark Hufstetler

# East Fork Bridge

### WORT04

#### **GENERAL DATA**

structure no.: 140R00.3 county: Worth

4.8 miles southeast of Grant City

feature inters.: East Fork of the Grand River

cadastral grid: S12/13, T65N, R31W highway route: County Road 140

highway distr.: 1

current owner: Worth County

### STRUCTURAL DATA

superstructure: steel, 4-panel, pin-connected Pratt pony truss substructure: timber back- and wingwalls, steel pile bent piers

city/town:

span number: 1 span length: 64.0' condition: fair

atterations: unknown
floor/decking: timber deck

total length: 114.0' roadway width: 12.1'

other features: unknown

### HISTORICAL DATA

erection date: 1908 erection cost: \$935.00

designer:

Midland Bridge Company, Kansas City MO Midland Bridge Company, Kansas City MO

fabricator : contractor:

Midland Bridge Company, Kansas City MO

references:

Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 140R00.3; Worth County Bridge Commissioner's Report, 4 February 1909, located at Worth County Count City MO

Courthouse, Grant City MO.

sign. rating:

evaluation:

NRHP non-eligible (typically configured example of common structural

type)

inventoried by: Mark Hufstetler 31 July 1992

# Savacool Bridge

### **WORT06**

#### **GENERAL DATA**

structure no.: 174002.1

Worth county:

9.2 miles southeast of Grant City city/town:

teature inters.: Little Rock Creek

cadastral grid: S14/15, T65N, R30W highway route: County Road 174

highway distr.: 1

current owner: Worth County

### STRUCTURAL DATA

superstructure: steel, 3-panel, pin-connected Pratt pony truss

substructure: timber abutments and wingwalls

span number:

condition:

44.0' span length:

alterations:

unknown

45.0' total length:

floor/decking: timber deck

roadway width: 13.0'

other features: unknown

#### HISTORICAL DATA

erection date: 1905

erection cost: \$300.00

designer:

unknown

fabricator:

unknown

contractor:

M.D. Haas

references:

Missouri Highway and Transportation Department, Structure Inventory

and Appraisal: Structure Number 174002.1; Worth County Court Record Book I: 20 March 1905, located at the Worth County Courthouse,

Grant City MO.

sign. rating:

evaluation:

NRHP non-eligible (typical example of common structural type)

inventoried by: Mark Hufstetler

# **Lotts Creek Bridge**

### WORT07

## **GENERAL DATA**

structure no.: 251001.0

Worth county:

6.2 miles northeast of Grant City city/town:

feature inters.: Lotts Creek

cadastral grid: S28, T66N, R30W highway route: County Road 251

highway distr.: 1

current owner: Worth County

# STRUCTURAL DATA

superstructure: steel, 5-panel, rigid-connected Warren pony truss, with polygonal upper

chords; timber and steel stringer approach spans

steel pile bent piers and abutments with timber backwalls substructure:

1 span number:

condition:

good none

80.0 span length: 124.0' total length:

alterations:

floor/decking: timber deck over timber stringers

roadway width: 14.0'

other features: upper chord / inclined end post: 2 channels with cover and batten plates; lower chord: 2 angles; vertical: 4 angles with batten plates; diagonal: 2 angles with batten plates; floor

beam: I-beam, field bolted to vertical

#### HISTORICAL DATA

erection date: c1920 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 251001.0; Field Inspected by Mark

Hufstetler, 10 September 1990.

sign. rating:

evaluation:

NRHP non-eligible (salvaged railroad truss with unusual Warren config-

uration)

inventoried by: Mark Hufstetler

# Sand Creek Bridge

### **WORT08**

#### **GENERAL DATA**

county:

structure no.: 254000.3

Worth

10.0 miles northeast of Grant City city/town:

feature inters.: Sand Creek

cadastral grid: S25, T66N, R29/30W highway route: County Road 254

highway distr.: 1

current owner: Worth County

#### STRUCTURAL DATA

superstructure: steel, 3-panel, pin-connected Pratt pony truss

substructure: steel pile bent piers with timber back- and wingwalls

span number:

condition:

fair

40.0 span length: 52.0' total length:

alterations:

unknown

roadway width: 12.4'

floor/decking: timber deck other features: unknown

### HISTORICAL DATA

erection date: c1910 erection cost: unknown

designer: fabricator: Midland Bridge Company, Kansas City MO (probable) Midland Bridge Company, Kansas City MO (probable)

contractor:

Midland Bridge Company, Kansas City MO (probable)

references:

Missouri Highway and Transportation Department, Structure Inventory

and Appraisal: Structure Number 254000.3.

sign. rating:

evaluation:

NRHP non-eligible (typical example of common structural type)

inventoried by: Mark Hufstetler

# **Grand River Bridge**

### **WORT10**

#### **GENERAL DATA**

structure no.:

266R00.3 city/town:

8.4 miles northeast of Grant City

county:

Worth

feature inters.: Grand River

cadastral grid: S3, T66N, R30W highway route: County Road 266

highway distr.: 1

current owner: Worth County

### STRUCTURAL DATA

superstructure: steel, 4-panel, pin-connected Pratt pony truss

substructure: unknown

1

span number:

condition:

fair

span length: 60.0' total length: 79.0'

0.0' alterations:

atterations: unknown floor/decking: timber deck

roadway width: 12.2'

other features: unknown

### HISTORICAL DATA

erection date: c1910 erection cost: unknown

designer:

Midland Bridge Company, Kansas City MO (prob.)

fabricator :

Midland Bridge Company, Kansas City MO (prob.)

contractor:

Midland Bridge Company, Kansas City MO (prob.)

references:

Missouri Highway and Transportation Department, Structure Inventory

and Appraisal: Structure Number 266R00.3.

sign. rating:

28

evaluation:

NRHP non-eligible (typical example of common structural type)

inventoried by: Mark Hufstetler

# Middle Fork Bridge

# WORT11

### **GENERAL DATA**

**structure no.:** 281001.9 county:

2.2 miles south of Grant City cltv/town:

feature Inters.: Middle Fork of the Grand River Worth

cadastral grid: S8, T65N, R31W highway route: County Road 281

highway distr.: 1

current owner: Worth County

### STRUCTURAL DATA

superstructure: steel, 6-panel, rigid-connected Warren pony truss

substructure: concrete abutments and piers

span number: 1

condition:

span length:

100.0 alterations: none

total length: 292.0'

floor/decking: concrete deck over steel stringers

other features: unknown roadway width: 21.9'

### HISTORICAL DATA

erection date: 1932

erection cost: \$22,776.87

designer:

Missouri State Highway Department

fabricator:

unknown

contractor:

**Graham Brothers** 

references:

Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 281001.9; Missouri Highway and Transportation Department, Primary Bridge Record, located at the Bridge

Division, MHTD, Jefferson City MO.

sign. rating:

evaluation:

NRHP non-eligible (typical MSHD highway pony truss)

inventoried by: Mark Hufstetler 31 July 1992



NAME(S) OF STRUCTURE

Marlowe Creek Bridge MHTD: 103001.0

County Road 103 over Marlowe Creek; S13, T65N, R32W 4.0 miles southwest of Grant City; Worth County, Missouri WORT02

DATE(S) OF CONSTRUCTION

c1885

threaded ends; floor beam: riveted plate girder, riveted to vertical

USE (ORIGINAL / CURRENT)

railroad bridge / roadway bridge

RATING NRHP potentially eligible (score: 43)

4.0 Innes some		
condition good  span number: 1 span length: 90.0' total length: 228.0' roadway wdt.: 10.0'	substructure: floor/decking: other features:	approach spans timber pile bent abutments, wingwalls and piers timber deck over steel stringers timber deck over steel stringers timber deck over steel stringers

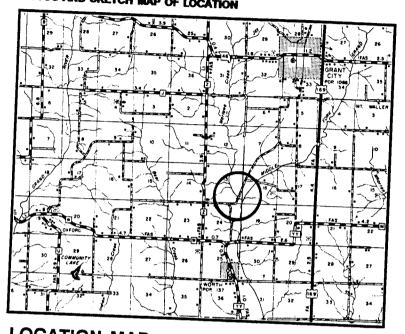
Located on the grade of the former Chicago, Burlington and Quincy Railroad - Grant City Branch, this short-span, pinned through truss was built by the railroad to span Marlowe Creek. The truss' configuration and detailing indicate an approximate fabrication date of 1885. The Albany Junction / Grant City line, some 20 miles long, was abandoned by the Burlington Railroad in October 1981. This bridge was subsequently converted from railroad to roadway use.

All of the railroads that once served Nodaway and Worth counties have since been abandoned. The Marlowe Creek Bridge appears to be the only bridge that was not dismantled during the abandonment process. It is thus historically significant as one of the few remaining resources associated with early railroad transportation in the region. With its heavily latticed portals, the truss is a distinctive representative of the mainstay railroad - and vehicular - truss type of the late 19th century - the pinned Pratt through truss.

# NAME(S) OF STRUCTURE

Marlowe Creek 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 103001.0; Missouri Highway and Transportation Department, "Missouri Rail Plan, 1984 Update," page 4-1; field inspection by Mark Hufstetler, 10 September 1990.

INVENTORIED BY Mark Hufstetler

**AFFILIATION** 

Renewable Technologies, Inc., Butte MT

DATE