

MADISON COUNTY

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

Inv. No.	MHTD	Bridge Name	Description
MADI01	G 443R	Castor River Bridge	3-100' riveted Pratt through truss 1924 Vincennes Bridge Company (replaced)
MADI02	G 700R	Castor River Bridge	
MADI03	J 521	St. Francis River Bridge	1-140' riveted Pratt through truss 1931 E.W. Deering
MADI04	T 71	St. Francis River Bridge	2-120' riveted Pratt through truss 1936 James R. Hancock
MADI05	110000.1	Rock Creek Bridge	1- 40' concrete deck girder 1919 Hogan and Humphreys

EXCLUDED:

Pratt pony truss

G 486R 008000.9 066002.0

Warren pony truss

G 437R 066003.2 111000.1

Steel stringer

F 81R G 331R S 694 T 92 T 93 065001.5 152000.3
 2670R0.3

Steel girder

152000.1

Concrete girder

F 537 G 328 J 20 J 79R J 80R J 81R K 761R
 L 46 T 627 112000.6

Concrete slab

T 625 Y 589 021002.0 033001.6 042000.6 049000.8

Concrete box culvert

F 82R F 538R G 329R1 H 294 K 762 L 47 L 71
 S 247 T 67 T 626 T 682 T 762 T 830 X 98
 001002.0 002000.3 002000.4 010000.3 010003.0 014000.8 029000.5
 034000.4 040000.7 040000.8 047001.6 048001.0 051000.8 054001.5
 071000.8 079002.5 080000.7 085001.7 089000.1 113000.3 267000.1
 267000.2

MADISON COUNTY

SUMMARY:

	Primary	Secondary	Urban	Other	Total
Included	3	1	0	0	4
Excluded	32	35	0	0	67
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	35	36	0	0	71 structures

Castor River Bridge

MADI01

GENERAL DATA

structure no.:	G 443R	city/town:	6.9 miles southeast of Fredericktown
county:	Madison	feature inters.:	Castor River
		cadastral grid:	S21/28, T33N, R8E
		highway route:	State Highway 72
		highway distr.:	10
		current owner:	Missouri Highway and Transportation Department

STRUCTURAL DATA

superstructure:	steel, 5-panel, rigid-connected Pratt through truss		
substructure:	concrete abutments, wingwalls and piers		
span number:	3	condition:	good
span length:	100.0'	alterations:	guardrail replaced, 1973
total length:	307.0'	floor/decking :	concrete deck over steel stringers
roadway width:	22.5'	other features:	Armco guardrail

HISTORICAL DATA

erection date:	1923-24
erection cost:	\$30,009.98
designer:	Missouri State Highway Department
fabricator :	unknown
contractor:	Vincennes Bridge Company, Vincennes IN
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number G 443R; Missouri Highway and Transportation Department, Primary System Bridge Record (see entries for Madison County), on file at MHTD, Jefferson City MO; Fourth Biennial Report of the Missouri State Highway Commission: 1923-24, page 158.
sign. rating:	39
evaluation:	NRHP non-eligible (typically configured example of riveted Pratt through truss construction)

inventoried by: Clayton B. Fraser 29 April 1993

St. Francis River Bridge

MADI03

GENERAL DATA

structure no.:	J 521	city/town:	4.5 miles south of French Mills
county:	Madison	feature inters.:	St. Francis River
		cadastral grid:	S10/11, T31N, R5E
		highway route:	State Supplementary Route C
		highway distr.:	10
		current owner:	Missouri Highway and Transportation Department

STRUCTURAL DATA

superstructure:	steel, 7-panel, rigid-connected Pratt through truss with steel stringer approach spans		
substructure:	concrete abutments, wingwalls and piers; timber pile bent piers at approaches		
span number:	1	condition:	good
span length:	140.0'	alterations:	none
total length:	274.0'	floor/decking :	concrete deck over steel stringers
roadway width:	20.0'	other features:	steel pipe guardrail

HISTORICAL DATA

erection date:	1931
erection cost:	\$20,251.33
designer:	Missouri State Highway Department
fabricator :	unknown
contractor:	E.W. Deering
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number J 521; Missouri Highway and Transportation Department, Primary System Bridge Record (see entries for Madison County), on file at MHTD, Jefferson City MO; Eighth Biennial Report of the Missouri State Highway Commission: 1931-32, page 309.
sign. rating:	36
evaluation:	NRHP non-eligible (typical example of MSHD truss design of the 1920s and 1930s)

Inventoried by: Clayton B. Fraser 29 April 1993

St. Francis River Bridge

MADI04

GENERAL DATA

structure no.:	T 71	city/town:	4.1 miles north of French Mills
county:	Madison	feature inters.:	St. Francis River
		cadastral grid:	S35, T33N, R5E
		highway route:	State Secondary Highway E
		highway distr.:	10
		current owner:	Missouri Highway and Transportation Department

STRUCTURAL DATA

superstructure:	steel, 6-panel, rigid-connected Pratt through truss with steel stringer approach spans		
substructure:	concrete abutments, wingwalls and piers		
span number:	2	condition:	good
span length:	120.0'	alterations:	none
total length:	346.0'	floor/decking :	concrete deck over steel stringers
roadway width:	20.0'	other features:	steel guardrails

HISTORICAL DATA

erection date:	1936
erection cost:	\$38,435.20
designer:	Missouri State Highway Department
fabricator :	unknown
contractor:	James R. Hancock
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number T 71; Missouri Highway and Transportation Department, Primary System Bridge Record (see entries for Madison County), on file at MHTD, Jefferson City MO.
sign. rating:	38
evaluation:	NRHP non-eligible (typical example of MSHD truss design of the 1920s and 1930s)

inventoried by: Clayton B. Fraser 29 April 1993

Rock Creek Bridge

MADI05

GENERAL DATA

structure no.:	110000.1	city/town:	5.7 miles north of Fredericktown
county:	Madison	feature inters.:	Rock Creek
		cadastral grid:	S20, T34N, R7E
		highway route:	county road
		highway distr.:	10
		current owner:	Madison County

STRUCTURAL DATA

superstructure:	concrete deck girder		
substructure:	concrete abutments and wingwalls		
span number:	1	condition:	good
span length:	40.0'	alterations:	none
total length:	43.0'	floor/decking :	concrete deck
roadway width:	19.2'	other features:	concrete guardrail with square balusters

HISTORICAL DATA

erection date:	1919
erection cost:	\$4320.00
designer:	Missouri State Highway Department
fabricator :	none
contractor:	Hogan and Humphreys, Little Rock AK (possible)
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 110000.1; Missouri State Highway Board, Second Biennial Report : 1919-20, pp. 129, 134; Third Biennial Report : 1921-22, n.p.
sign. rating:	47
evaluation:	NRHP possibly eligible (one of oldest remaining examples of MSHD bridge design)

inventoried by: Clayton B. Fraser 29 April 1993

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Rock Creek Bridge
MHTD: 110000.1

MADI05

DATE(S) OF CONSTRUCTION

1919

LOCATION

county road over Rock Creek; S20, T34N, R7E
5.7 miles north of Fredericktown; Madison County, Missouri

USE (ORIGINAL / CURRENT)

roadway bridge / roadway bridge

RATING NRHP possibly eligible (score: 47)

CONDITION

good

OWNER

Madison County

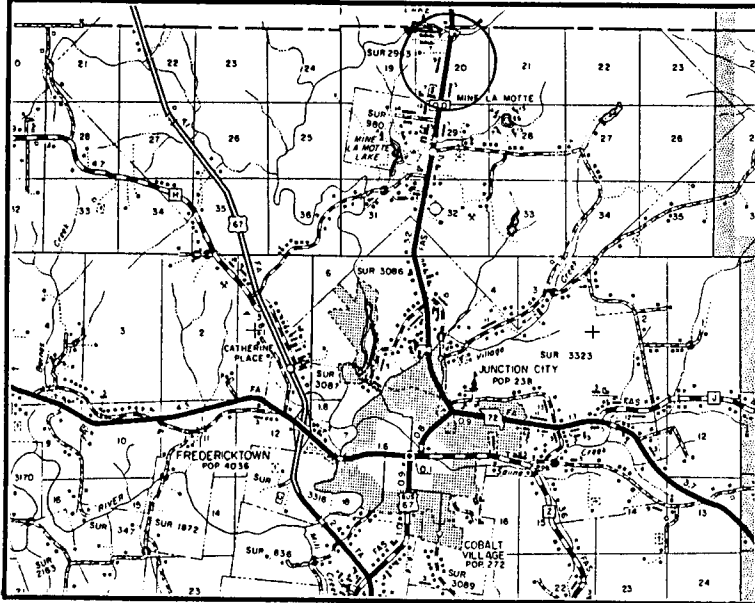
span number:	1	superstructure:	concrete deck girder
span length:	40.0'	substructure:	concrete abutments and wingwalls
total length:	43.0'	floor/decking:	concrete deck
roadway wdt.:	19.2'	other features:	concrete guardrail with square balusters

This modest concrete girder bridge carries a county road over Rock Creek north of Fredericktown. Although now a county-owned structure, the Rock Creek Bridge was designed and built by the Missouri State Highway Department in 1919 as a part of construction on State Highway Project 101 (later U.S. 67) through the center of Madison County. It and six other small-scale concrete spans were apparently completed that year, possibly by contractors Hogan and Humphreys of Little Rock, Arkansas. Cost of the Rock Creek Bridge: \$4320.00. It remains in unaltered condition.

One of the provisions of the Hawes Road Law establishing the Missouri State Highway Department was that the newly formed agency develop plans and specifications for bridges and culverts. "The Highway Department has maintained a drafting room which has been called upon for many kinds of service," the department reported in 1918, "but the especial function of which has been the preparation of bridge and culvert designs." By 1920, the department had developed several standards for short- and medium-span bridges, including 13 designs for steel superstructures with spans ranging up to 100 feet. In addition, the department delineated some 185 special bridge designs during the 1919-20 biennium. One of these was the Rock Creek Bridge in Madison County, designated Structure No. F-77. Although modest in its design and dimensions, this bridge is historically distinguished as one of the oldest remaining highway bridges designed by the state highway department. It is thus an important resource for interpreting MSHD's formative years and the early development of Missouri's state highway network.

NAME(S) OF STRUCTURE

Rock 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 110000.1; Missouri State Highway Board, Second Biennial Report: 1919-20, pp. 129, 134.

INVENTORIED BY

Clayton B. Fraser

AFFILIATION

Fraserdesign, Loveland CO

DATE

29 April 1993
