

LAFAYETTE COUNTY

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

Inv. No.	MHTD	Bridge Name	Description
LAF A01	G 387	Horseshoe Creek Bridge	1-100' riveted Pratt through truss 1923 Cook-O'Brien Construction Co.
LAF A02	J 25R	Sni-A-Bar Creek Bridge	1-200' riveted Parker through truss 1929 Clinton Bridge Works; George W. Condon
*LAF A03	L 90R	Graham Branch Bridge	1- 28' concrete filled spandrel arch 1911
LAF A04	Y 845	Dyer Rock Creek Bridge	1- 24' concrete through girder 1917 Vermillion Bros., Higginsville MO (replaced)
LAF A05	184001.1	Little Tabo Creek Bridge	1-150' pinned Parker through truss c1910
LAF A06	208001.7	Davis Creek Bridge	
*LAF A07	211000.1	Bear Creek Bridge	1- 50' pinned Pratt half-hip pony truss 1904 Midland Bridge Co., Kansas City
*LAF A08	266001.5	Davis Creek Bridge	1- 96' riveted polyg. Warren pony truss 1940
LAF A09	426000.3	Sni-A-Bar Creek Bridge	1- 34' pinned Pratt pony truss c1895

EXCLUDED:

Pratt pony truss

G 391 033000.8 045001.0 443001.0

Warren pony truss

G 988R T 352 X 403 372001.2

Steel stringer

G 729R1	G 819R1	K 345	K 346	L 352R	S 42	T 563
X 563	X 564	X 740	X 823	020001.0	026001.3	045000.3
046001.0	084R01.5	095R01.5	096000.5	109001.4	115000.5	119R03.3
119000.9	122002.0	122002.3	160000.2	162000.4	181R02.8	194000.1
207000.8	225000.1	231000.5	243000.7	259000.1	270000.1	282002.0
284000.5	305002.5	331R01.9	348001.8	376000.3	398001.7	406000.1
411001.0	420000.6	423000.8	437000.7	455000.2	460000.5	475R01.5

Steel girder

053003.1	095001.8	111001.5	155002.5	164001.7	179000.5	187001.7
242001.0	315001.1	452000.6				

Concrete girder

G 636R1	H 100R	H 106R	J 821	W 312	096000.4	184002.5
187000.8	213001.3	403000.6				

LAFAYETTE COUNTY

EXCLUDED (cont.):

Concrete slab

G 636 193001.0 193002.0 257000.8 288000.3 295000.4

Concrete box culvert

G 635 H 101 H 122 H 722

Timber stringer

018001.2

SUMMARY:

	Primary	Secondary	Urban	Other	Total
Included	4	4	0	0	8
Excluded	25	63	0	0	88
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	29	67	0	0	96 structures

Horseshoe Creek Bridge

LAF01

GENERAL DATA

structure no.: G 387	city/town: 2.7 miles northwest of Bates City
county: Lafayette	feature inters.: Horseshoe Creek Bridge
	cadastral grid: S34, T49N, R29W
	highway route: Interstate 70
	highway distr.: 4
	current owner: Missouri Highway and Transportation Department

STRUCTURAL DATA

superstructure: steel, 5-panel, rigid-connected Pratt through truss, with concrete slab approach spans

substructure: concrete abutments, wingwalls and piers

span number: 1	condition: good
span length: 100.0'	alterations: none
total length: 142.0'	floor/decking : concrete deck over steel stringers
roadway width: 20.0'	other features: steel pipe guardrails

HISTORICAL DATA

erection date: 1923

erection cost: \$18,204.04

designer: Missouri State Highway Department

fabricator : unknown

contractor: Cook-O'Brien Construction Company

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number G 387; Files on primary system bridges located at Missouri Highway and Transportation Department, Jefferson City MO.

sign. rating: 38

evaluation: NRHP non-eligible (standard MSHD short-span through truss of the 1920s)

inventoried by: Lon Johnson 19 August 1993

Sni-A-Bar Creek Bridge

LAF02

GENERAL DATA

structure no.: J 25R	city/town: 6.3 miles southwest of Lexington
county: Lafayette	feature inters.: Sni-A-Bar Creek
	cadastral grid: S15, T50N, R28W
	highway route: State Highway 224
	highway distr.: 4
	current owner: Missouri Highway and Transportation Department

STRUCTURAL DATA

superstructure: steel, rigid-connected Parker through truss, with Warren pony truss and concrete girder approach spans

substructure: concrete abutments, wingwalls and piers

span number: 1; 1	condition: good
span length: 200.0'; 80.0'	alterations: none
total length: 332.0'	floor/decking : concrete deck over steel stringers
roadway width: 20.0'	other features: steel pipe guardrails

HISTORICAL DATA

erection date: 1929

erection cost: \$23,059.42

designer: Missouri State Highway Department

fabricator : Clinton Bridge Works, Clinton IA

contractor : Clinton Bridge Works, Clinton IA;
George W. Condon

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number J 25R; Files on primary system bridges located at Missouri Highway and Transportation Department, Jefferson City MO.

sign. rating: 49

evaluation: NRHP non-eligible (long-span version of MSHD standard truss design)

inventoried by: Lon Johnson 19 August 1993

Graham Branch Bridge

LAFA03

GENERAL DATA

structure no.:	L 90R	city/town:	1.0 mile southwest of Lexington
county:	Lafayette	feature inters.:	Graham Branch
		cadastral grid:	S33, T51N, R27W
		highway route:	State Highway 224
		highway distr.:	4
		current owner:	Missouri Highway and Transportation Department

STRUCTURAL DATA

superstructure:	concrete filled spandrel arch		
substructure:	concrete abutments and wingwalls		
span number:	1	condition:	good
span length:	28.0'	alterations:	guardrails replaced with Armco, 1988
total length:	56.0'	floor/decking :	concrete deck
roadway width:	27.0'	other features:	Armco steel beam guardrails

HISTORICAL DATA

erection date:	1911
erection cost:	unknown
designer:	unknown
fabricator :	none
contractor :	unknown

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number L 90R; Files on primary system bridges located at the Missouri Highway and Transportation Department, Jefferson City MO; field inspection by Lon Johnson, 11 February 1991.

sign. rating:	32
evaluation:	NRHP non-eligible (small-scale example of concrete arch bridge construction, altered and inadequately documented)

inventoried by: Lon Johnson 19 August 1993

Dyer Rock Creek Bridge

LAF04

GENERAL DATA

structure no.:	Y 845	city/town:	5.3 miles northeast of Concordia
county:	LaFayette	feature inters.:	Dyer Rock Creek
		cadastral grid:	S11, T49N, R24W
		highway route:	State Secondary Route NN
		highway distr.:	4
		current owner:	Missouri Highway and Transportation Department

STRUCTURAL DATA

superstructure:	concrete through girder		
substructure:	concrete abutments and wingwalls		
span number:	1	condition:	fair
span length:	24.0'	alterations:	none
total length:	27.0'	floor/decking :	concrete deck
roadway width:	15.5'	other features:	concrete guardrail with incised panels on parapets

HISTORICAL DATA

erection date:	1917
erection cost:	unknown
designer:	unknown
fabricator :	none
contractor:	Vermillion Brothers Contractors, Higginsville MO
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number Y 845.
sign. rating:	56
evaluation:	NRHP possibly eligible (well-preserved, relatively early example of concrete girder construction)

inventoried by: Clayton B. Fraser 19 August 1993

Davis Creek Bridge

LAF06

GENERAL DATA

structure no.: 208001.7	city/town: 2.5 miles southwest of Aullville
county: Lafayette	feature inters.: Davis Creek
	cadastral grid: S31, T49N, R25W
	highway route: County Road 208
	highway distr.: 4
	current owner: Lafayette County

STRUCTURAL DATA

superstructure: steel, 8-panel, pin-connected Parker through truss, with steel stringer approach spans	
substructure: unknown	
span number: 1	condition: fair
span length: 150.0'	alterations: unknown
total length: 183.0'	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 208001.7.	
sign. rating: 32	
evaluation: NRHP non-eligible (typically configured, inadequately documented example of uncommon Pratt truss sub-type)	

inventoried by: Lon Johnson 19 August 1993

Bear Creek Bridge

LAF07

GENERAL DATA

structure no.:	211000.1	city/town:	4.1 miles southeast of Higginsville
county:	Lafayette	feature inters.:	Bear Creek
		cadastral grid:	S29/30, T49N, R25W
		highway route:	County Road 211
		highway distr.:	4
		current owner:	Lafayette County

STRUCTURAL DATA

superstructure:	steel, 4-panel, pin-connected Pratt half-hip pony truss, with steel stringer approach span on south end		
substructure:	timber pile bent piers with timber back- and wingwalls		
span number:	1	condition:	fair
span length:	50.0'	alterations:	none
total length:	68.0'	floor/decking :	timber deck over steel stringers
roadway width:	12.1'	other features:	upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 looped rectangular eyebars; vertical: 4 angles with lacing; diagonal: round eyerod; counter: round eyerod with turnbuckle; lateral bracing: round rod with threaded ends; floor beam: I-beam, U-bolted to vertical; guardrail: none; endpost-mounted builder's plate: 190[4] / The Midland [Bridge Company] / Frey... / Tr.... / Prop... / Kansas...

HISTORICAL DATA

erection date:	1904
erection cost:	unknown
designer:	Midland Bridge Company, Kansas City MO
fabricator :	Midland Bridge Company, Kansas City MO
contractor:	Midland Bridge Company, Kansas City MO
references:	Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 211000.1; field inspection by Lon Johnson, 11 February 1991.
sign. rating:	39
evaluation:	NRHP non-eligible (typical example of common structural type)

Inventoried by: Lon Johnson 19 August 1993

Davis Creek Bridge

LAF08

GENERAL DATA

structure no.:	266001.5	city/town:	2.3 miles northwest of Concordia
county:	Lafayette	feature inters.:	Davis Creek
		cadastral grid:	S29/30, T49N, R24W
		highway route:	County Road 266
		highway distr.:	4
		current owner:	Lafayette County

STRUCTURAL DATA

superstructure:	steel, 6-panel, rigid-connected Warren pony truss with polygonal upper chords; steel stringer approach spans at both ends		
substructure:	concrete abutments and wingwalls; steel pile bent piers		
span number:	1	condition:	fair
span length:	96.0'	alterations:	unknown
total length:	144.0'	floor/decking :	concrete deck over steel stringers
roadway width:	15.7'	other features:	upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 angles with batten plates; vertical: 4 angles with continuous plate; diagonal: 2 angles with batten plates; lateral bracing: 1 angle; floor beam: I-beam; guardrail: lattice

HISTORICAL DATA

erection date:	c1940
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 266001.5; field inspection by Lon Johnson, 11 February 1991.
sign. rating:	41
evaluation:	NRHP non-eligible (uncommon structural type, poorly documented and possibly moved)

inventoried by: Lon Johnson and Michelle Crow-Dolby 19 August 1993

Sni-A-Bar Creek Bridge

LAF09

GENERAL DATA

structure no.: 426000.3	city/town: 3.6 miles southwest of Odessa
county: Lafayette	feature inters.: East Fork Sni-A-Bar Creek
	cadastral grid: S22/23, T48N, R28W
	highway route: County Road 426
	highway distr.: 4
	current owner: Lafayette County

STRUCTURAL DATA

superstructure: steel, 3-panel, pin-connected Pratt through truss	
substructure: steel pile bent piers and timber back- and wingwalls	
span number: 1	condition: fair
span length: 34.0'	alterations: unknown
total length: 34.0'	floor/decking : timber deck
roadway width: 14.0'	other features: tapered "fishtail" plate girder floor beams; steel angle guardrails

HISTORICAL DATA

erection date: c1895	
erection cost: unknown	
designer: unknown	
fabricator : unknown	
contractor: unknown	
references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 426000.3.	
sign. rating: 22	
evaluation: NRHP non-eligible (early example of mainstay structural type, inadequately documented)	

inventoried by: Lon Johnson 19 August 1993

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Dyer Rock Creek Bridge
MHTD: Y 845

LAF A04

DATE(S) OF CONSTRUCTION

1917

LOCATION

State Secondary Route NN over Dyer Rock Creek; S11, T49N, R24W
5.3 miles northeast of Concordia; LaFayette County, Missouri

USE (ORIGINAL / CURRENT)

roadway bridge / highway bridge

RATING NRHP possibly eligible (score: 56)

CONDITION

fair

OWNER

Missouri Highway and Transportation Department

span number: 1

superstructure: concrete through girder

span length: 24.0'

substructure: concrete abutments and wingwalls

total length: 27.0'

floor/decking: concrete deck

roadway wdt.: 15.5'

other features: concrete guardrail with incised panels on parapets

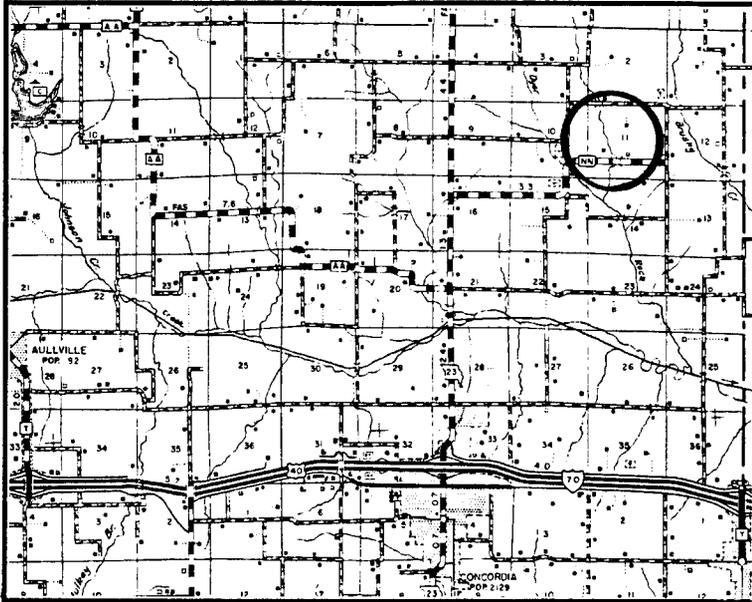
This small-scale concrete bridge carries State Secondary Route NN over Dyer Rock Creek northeast of Concordia. The structure features a concrete deck supported between the concrete mass abutments by a pair of through girders. It is simply detailed, with incised rectangular panels on the girder sides as the only architectural expression. The Dyer Rock Creek Bridge was built in 1917 by the Vermillion Brothers Contractors of Higginsville, Missouri, under contract with the Lafayette County Court. Since its completion, the bridge has functioned in place, without substantial alteration.

Unlike many Midwestern states, Missouri did not employ reinforced concrete extensively for construction of vehicular bridge superstructures in the 1910s. The various counties and, to a lesser extent, the state highway department continued to prefer steel for bridge superstructures well after concrete had received widespread acceptance elsewhere. This, combined with subsequent attrition, has resulted in a relatively small number of concrete bridges that exist today from this formative period. The Dyer Rock Creek Bridge is distinguished among these as one of less than ten concrete through girders found in the state. Modestly scaled and simply detailed, it is noteworthy as an early, well-preserved example of concrete bridge construction in Missouri.

NAME(S) OF STRUCTURE

Dyer 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 Y 845.

INVENTORIED BY

Clayton B. Fraser

AFFILIATION

Fraserdesign, Loveland CO

DATE

19 August 1993

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Davis Creek Bridge
MHTD: 266001.5

LAF A08

DATE(S) OF CONSTRUCTION

c1940

LOCATION

County Road 266 over Davis Creek; S29/30, T49N, R24W
2.3 miles northwest of Concordia; Lafayette County, Missouri

USE (ORIGINAL / CURRENT)

roadway bridge / roadway bridge

RATING NRHP non-eligible (score: 41)

CONDITION

fair

OWNER

Lafayette County

span number: 1
span length: 96.0'
total length: 144.0'
roadway wdt.: 15.7'

superstructure: steel, 6-panel, rigid-connected Warren pony truss with polygonal upper chords; steel stringer approach spans at both ends
substructure: concrete abutments and wingwalls; steel pile bent piers
floor/decking: concrete deck over steel stringers
other features: upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 angles with batten plates; vertical: 4 angles with continuous plate; diagonal: 2 angles with batten plates; lateral bracing: 1 angle; floor beam: I-beam; guardrail: lattice

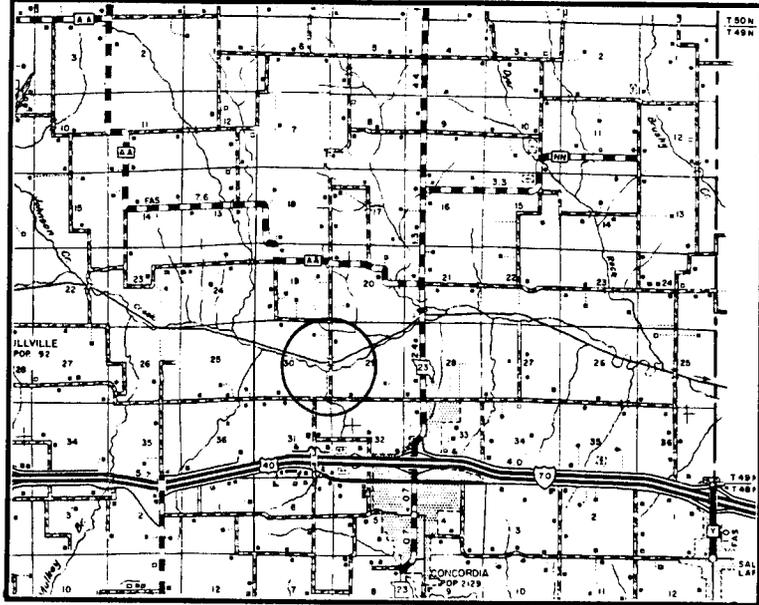
Carrying a gravel-surfaced road over Davis Creek some two miles northwest of Concordia, this 96-foot bridge is located in east-central Lafayette County. Configured as a polygonal Warren pony truss, the superstructure rests on concrete and steel substructure. The Davis Creek Bridge features riveted connections throughout and is approached on either end by steel stringers. Structure Inventory and Appraisal records indicate that the bridge was erected in 1940, which is uncorroborated in other county records. This bridge continues to carry intermittent vehicular traffic and maintains an average degree of historical integrity.

The Davis Creek Bridge is one of ten rigid-connected, polygonal Warren pony trusses included in Missouri's statewide inventory. All of these crossings were built in the 1930s and 1940s, most on primary system roadways. Its profile differs from the MSHD design, however, indicating an outside design source. It is possible that the truss was salvaged and moved to this location, perhaps from another state.

NAME(S) OF STRUCTURE

Davis 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 266001.5; field inspection by Lon Johnson, 11 February 1991.

INVENTORIED BY

Lon Johnson

AFFILIATION

Fraserdesign, Loveland CO

DATE

28 February 1990
