The Bennies Hill Road Bridge spans Catoctin Creek southwest of Middletown on Bennies Hill Road, at the base of Bennies Hill. It is an iron bowstring pony truss bridge in a single span ninety-four feet in length and fourteen feet, eight inches in width, built circa 1880 by the King Iron Bridge Manufacturing Company of Cleveland, Ohio. The structure is set on two abutments; the one on the west bank is a replaced reinforced concrete pier installed in summer 1977, the other is an original random stone abutment with wing walls. The entire structure, including new steel stringers, new wood planking, and a coat of paint was rehabilitated during the summer of 1977.

The Bennies Hill Road Bridge is the larger of two bowstring arch truss bridges in the county. Since the destruction of the Keysville Road Bridge, a twin arch column bridge, and relocation of the Detour Bridge, the Bennies Hill Road Bridge and Crum Road Bridge are the only two known bow arch bridges in Maryland situated in their original location. As such, the preservation of these bridges is important in documenting the history of bridge engineering design in Frederick County and the State of Maryland.

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

ATIONAL REGISTER	OF HISTORIC PLACES
INVENTORY NO	MINATION FORM

FOR NPS USE ONLY 10 1061	
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	TYPE ALL ENTRIES	COMPLETE APPLICA	BLE SECTIONS	15
1 NAME			66-23	
HISTORIC Poppid	se Udii naad nada			
AND/OR COMMON	es Hill Road Bridge			
LOCATION				
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	s Hill Road over Cat	octin Cunck		
GITE TOWN		octin creek	NOT FOR PUBLICATION CONGRESSIONAL DIST	niew.
Middle	town X	VICINITY OF	Sixth	HICT
STATE Maryla	nd	CODE	COUNTY	CODE
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A_STRUCTURE	_80TH	_WORK IN PROGRESS	-EDUCATIONAL	_PARK
SITE OBJECT	PUBLIC ACQUISITION	ACCESSIBLE	-ENTERTAINMENT	PRIVATE RESIDENCE RELIGIOUS
OBJEC 1	_IN PROCESS	-YES: RESTRICTED	GOVERNMENT	SCIENTIFIC
	BEING CONSIDERED	X. YES UNNESTRICTED	INDUSTRIAL	X TRANSPORTATION
		_NO	MIUTARY	_OTHER
OWNER OF I	PROPERTY			
NAME The Board	of County Commissio	ners of Frederick	County, Maryland	
STREET & NUMBER	am Fout, Roads Depar	tment Engineer	- mary tand	
Winchester	Hall: 12 East Churc	ch Street		
Frederick		NAME OF THE OWNER O	STATE	
		VICINITY OF	Maryland 2	21701
	OF LEGAL DESCR	IPTION		nichaeth
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STREET & NUMBER		The result of the	10308)	-
CITY TOWN	Montevue Lane			
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EPOSITORY FOR FURVEY RECORDS		V 500 4 50 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_LOCAL	
TY TOWN	National Park Servi	ce, 1100 L Street	, NW	
016/14/05	Washington		STATE	
	3.011		D. C. 20240)

7 DESCRIPTION

CONDITION

CHECK ONE

CHECK ONE

X_EXCELLENT

DETERIORATED

__UNALTERED

A ORIGINAL SITE

__GOOD __RUINS __ __FAIR __UNEXPOSED

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

The Bennies Hill Road Bridge spans Catoctin Creek southwest of Middletown, Frederick County, Maryland, on Bennies Hill Road, at the base of Bennies Hill.

It is an iron bowstring pony truss bridge in a single span 94 feet in length and 14 feet 8 inches in width, built circa 1880 by the King Iron Bridge Manufacturing Company of Cleveland, Ohio. The structure is set on two abutments; the one on the west bank is a replaced reinforced concrete pier installed in summer 1977, the other is an original random stone abutment with wing walls. The entire structure, including new steel stringers, new wood planking, and a coat of paint was rehabilitated during the summer of 1977.

It is believed that a wood truss bridge originally stood in the present location of Bennies Hill Bridge. Certainly by the flood of June, 1889, there were several iron truss bridges located south of Middletown as documented by this entry in the Frederick County Commissioners Minutes of Friday, August 16, 1889: "Messrs. Miller, Hightman, Madell, and Eyler took carriage and proceeded to Middletown." I Immediately after the flood the Commissioners had sent for an "expert or good mechanic" from the King Iron Bridge Manufacturing Company and the Canton Wrought Iron Bridge Company. 2 and later authorized \$75,000.00 to be borrowed to build buildges. 3

Frederick County Commissioners Minutes, Friday, August 16, 1889, p. 43.

² Ibid., Tuesday, June 4, 1889, p. 30.

^{3 &}lt;u>Ibid.</u>, Friday, June 28, 1889, p. 37.

8 SIGNIFICANCE

1900	COMMUNICATIONS	_INDUSTRY _INVENTION	-POLITICS/GOVERNMENT	X_OTHER SPECIFY industrial archeology
PREHISTORIC 1400-1499 1500-1599 1500-1699 1700-1798 X1800-1899	_ARCHEOLUGY-PREHISTORIC _ARCHEOLOGY-HISTORIC _AGRICULTURE _ARCHITECTURE _ART _COMMERCE	COMMUNITY PLANNING CONSERVATION ECONOMICS EDUCATION ENGINEERING EXPLORATION: SETTLEMENT	LANDSCAPE ARCHITECTURE LAW LITERATURE MILITARY MUSIC PHILOSOPHY	REUGION SCIENCE SCULPTURE SOCIAL/HUMANITARIAN THEATER X_TRANSPORTATION

STATEMENT OF SIGNIFICANCE

The Bennies Hill Road Bridge is the larger of two bowstring arch truss bridges in the county. Since the destruction of the Keysville Road Bridge, a twin arch column bridge, and relocation of the Detour Bridge, the Bennies Hill Road Bridge and Crum Road Bridge are the only two known bow arch bridges in Maryland situated in their original location. As such, the preservation of these bridges is important in documenting the history of bridge engineering design in Frederick County and the State of Maryland.

The bowstring arch truss bridge was a popular design for the King Iron Bridge and Manufacturing Company. Its founder, Zenas King, patented the Tubular Arch Bridge in 1859, and the company began manufacturing bridges at the rate of approximately twenty-five per year. But by 1874 when the company's catalog was published, 250 to 300 bridges in Tubular Arch style were being built a year. By 1884 King Iron Bridge and Manufacturing Company was one of the largest highway bridge works in the United States. I There are two other bridges in Frederick Connty known to have been built by the company and one more is attributed. However, the Bennies Hill Road Bridge is by far one of the finest examples of early iron truss bridge construction remaining in Frederick County, Maryland

Dan Deibler, Metal Truss Bridges in Virginia, 1865-1932, (Virginia Highway and Transportation Research Council, 1975), p. 35.

GP0 .692-453

9 MAJOR BIBLIOGRAPHICAL REFERENCES

SEE CONTINUATION SHEET #1.

OGEOGRAPHICAL DA' ACREAGE OF NOMINATED PROPERTY_				
LITM REFERENCES				
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FORM PREPARED BY			1 km	
Cherilyn Widell			DATE	
Frederick County Histor	ric Preservati	on	January 17, 19	78
Winchester Hall; 12 Eas	st Church Stre	et	(301) 663-8300	
Frederick				701
2 STATE HISTORIC PRI			CERTIFICATION	ON
NATIONAL	STA	TE	LOCAL	
As the designated State Historic Preserv hereby nominate this property for inclus criteria and procedures set forth by the N	sion in the National	Register and certif		
STATE HISTORIC PRESERVATION OFFICER S	SIGNATURE			
TITLE STATE HISTORIC PRES	SERVATION OFFI	CER	DATE	
R NPS USE ONLY I HEREBY CERTIFY THAT THIS PROP	PERTY IS INCLUDED	IN THE NATIONA	L REGISTER	
		ATT	DATE	
DIRECTOR, OFFICE OF ARCHEOLOG TEST:	Y AND HISTORIC P	RESERVATION	DATE	

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

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NATIONAL REGISTER OF HISTORIC PLACES INVENTORY -- NOMINATION FORM

DATE ENTERED

Bennies Hill Road Bridge Frederick County

CONTINUATION SHEET Mary land

ITEM NUMBER 9

PAGE 1

MAJOR BIBLIOGRAPHICAL REFERENCES

Deibler, Dan. Metal Truss Bridges in Virginia, 1865-1932. Vol. I. Virginia Highway and Transportation Research Council, 1975.

Jackson, Donald. "Railroads, truss bridges and the rise of the civil engineer." Civil Engineering (October, 1977), 97-101.

Meeting minutes of the Frederick County Commissioners, 1882-1889.

The Frederick Examiner, Wednesday, September 13, 1854.



Maryland Historical Trust

Maryland Inventory of Historic Properties number:

The bridge referenced herein was inventoried by the Maryland Stat Historic Bridge Inventory, and SHA provided the Trust with eligib The Trust accepted the Historic Bridge Inventory on April 3, 2001 determination of eligibility.	oility determinations in repruary 2001.
Eligibility Recommended MARYLAND HISTORICAL Criteria:ABCD Considerations:A Comments:	Eligibility Not Recommended
Reviewer, OPS:_Anne E. Bruder	Date:3 April 2001 Date:3 April 2001

Ay

MARYLAND INVENTORY OF HISTORIC BRIDGES HISTORIC BRIDGE INVENTORY MARYLAND STATE HIGHWAY ADMINISTRATION/ MARYLAND HISTORICAL TRUST MHT No. F-2-2

SHA Bridge No. F03-08	Bridge name Bennies Hill Road Bridge
LOCATION:	
Street/Road name and number [1	acility carried] Bennies Hill Road over Catoctin Creek
City/town Middletown	VicinityX
County Frederick	
This bridge projects over: Road_	Railway Water X Land
Ownership: State	County X Municipal Other
HISTORIC STATUS:	
THE RESERVE OF THE PROPERTY OF	ignated historic district? Yes NoX
National Register-listed di	istrict National Register-determined-eligible district
	Other
Name of district	1198
BRIDGE TYPE:	
Timber Bridge:	
Beam Bridge	Truss -Covered Trestle Timber-And-Concrete
Stone Arch Bridge	
Metal Truss Bridge X	
Movable Bridge:	
Swing	Bascule Single Leaf Bascule Multiple Leaf
Vertical Lift	RetractilePontoon
Metal Girder:	
Rolled Girder	Rolled Girder Concrete Encased
Plate Girder	Plate Girder Concrete Encased
Metal Suspension	
Metal Arch	
Metal Cantilever	
Concrete:	
Concrete Arch C	oncrete Slab Concrete Beam Rigid Frame
Other Type Na	ime

DESCR	PTION:			
Setting:	Urban	Small town	Rural	x
Describe	Setting:			
Road ru	ns east/west and (Bennies Hill Road over Cato Catoctin Creek flows north/so I by wooded areas and pastu	outh. The bridge is le	
Describe	Superstructure	and Substructure:		
The out-	is 28.6 meters (sto-out width is 4. connected with pi	ucted circa 1880, is a single-s 94 feet) in length and has a c 46 meters (14.66 feet). It ha ins. The floor system has ste- ions and all connections are	lear roadway width s ten (10) panels wi el rolled beam strin	of 3.96 meters (13 feet). th diagonal endposts and gers and floorbeams. All
and wing Bridge N	wall (installed in Manufacturing Co	stone abutment and wingwal 1977). A plaque on the stru- mpany of Cleveland, Ohio. 1 ency rating of 29.65.	cture attributes cons	truction to the King Iron
Discuss	Major Alteration	ist		
replacen	nent of the west a	bilitated in 1977, included abutment and wingwall. In a nal rods were replaced.	new steel stringers addition, the structu	s, new wood deck, and re was painted. In 1993,
HISTOR	tY:			
WHEN	was the bridge bu	rilt: circa 1880		
This dat Source of Other (s		Besign plans SHA/	Stimated X County bridge files	/inspection formX
SURVE	OR/HISTORIAN	ANALYSIS:		
1	- Events X	tional Register significance B- Person chitectural character		vith:
The bric	lge was listed on	the National Register of His	storic Places in June	: 1979.
SURVE	OR:			
Name of	surveyor Dave	March 1998 Dick/Caroline Hall allace Montgomery and Asso	oristes 110 West R	and Towers MD 21204/
		A.C. Spero & Co., 40 W. Ches		12, Baltimore, MD 21204





