MARYLAND INVENTORY OF HISTORIC BRIDGES HISTORIC BRIDGE INVENTORY MARYLAND STATE HIGHWAY ADMINISTRATION/ MARYLAND HISTORICAL TRUST

MHT No. F-4-3	
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SHA Bridge No. F-312	Bridge name	Mount Tabor Station B	ridge
LOCATION:			
Street/Road name and number	[facility carried] Station	Road over Frostown Bra	nch
City/town Myersville		Vicinity	<u>X</u>
County Frederick			
This bridge projects over: Roa	d Railway	Water x	Land
Ownership: State Co	unty X Municipal _	_ Other	
HISTORIC STATUS:			
Is the bridge located within a d National Register-listed	lesignated historic district? district National rict Other	Register-determined-elig	ible district
Name of district			
BRIDGE TYPE:			
Timber Bridge: Beam Bridge:	Truss -Covered Tre	stle Timber-And	-Concrete
Stone Arch Bridge			
Metal Truss Bridge X			
Movable Bridge:			
Swing	Bascule Single Leaf	Bascule Multiple	Leaf
Vertical Lift	Retractile		
Metal Girder			
Rolled Girder	Rolled Girder Concre	ete Encased	
Plate Girder	Plate Girder Concret		
Metal Suspension			
Metal Arch			
Metal Cantilever			
Concrete :			
Concrete Arch	Concrete Slab Conc	rete Beam Rigid	Frame
Other Type	Name	STANDARD OF THE STANDARD	ordina (e)

				j	F-4-3
DESCRIPTION:					
Setting: Urban	Small town		Rural _	x	
Describe Setting:					
Hagerstown Road. Static Branch flows to the south	ntion Road over Frostown on Road runs generally in a control. The bridge is situated in a rm visible from the bridge.	east-wes	t direction in	the area v	while Frostown
Describe Superstructure	and Substructure:				
which are unequally space 11'-6"; the endposts are in plate with lacing bars an connected by pins. The fl verticals consist of paired consist of cylindrical cycle and the distance from centruss members are protect aligned 90 degrees to the	span, Pratt pony truss meas ed; the three central panels nclined. The top chord is a nd is connected by pins. oor system has steel stringed angles and lattice bars; the ars. All connections are pin nterline of trusses is 15'-10" etcd by a 8" x 4" timber who streambed. The abutments a "1928" is found on the conc	are 12'- built-up The bot rs and fl e diagor ned. Th There rel guard	4" long, while a section of the tom chord of the coorbeams; the call are pair to the clear width is no sidewall, and lattice trete, and the	e the two of wo channe consists of here is a we ed eyebars of the roa lk on the l guardrail.	end panels are els and a cover two eye bars ood deck. The s and counters adway is 12'-9", bridge and the . The bridge is
Discuss Major Alteration	15:				
each panel and extended	gineer, at some time extra i beyond the truss to the ea inspection report shows 199	st and v	vest to restor	re lateral s	stability to the
HISTORY:					
This date is: Actual _	ilt truss c.1900, substructu Estimat Design plans n concrete abutment	ed	X	 es/inspect	ion form
WHY was the bridge buil	1?				
To provide a reliable cro	ssing for Station Road over	Frostov	vn Branch.		

194

WHO was the designer?

WHO was the builder?

Unknown

Unknown

WHY was the bridge altered?

The bridge was altered to add lateral stability.

Was this bridge built as part of an organized bridge-building campaign?

Bridge F-312 was not built as part of an organized bridge-building campaign.

SURVEYOR/HISTORIAN ANALYSIS:

This bridge may have	National	Register significance	for its association with:
A - Events	X	B- Person	
C- Engineering	g/architec	tural character	

Was the bridge constructed in response to significant events in Maryland or local history?

This bridge was one of a large number of metal truss bridges built in Maryland in the late nineteenth and early twentieth centuries. Metal trusses built in the late nineteenth century were frequently of wrought iron construction and featured pinned connections. By the turn of the century, steel was the material of choice and connections were sometimes pinned and sometimes rivetted. By 1920, the truss type exhibited more heavily configured members and rivetted connections.

General Truss Bridge Trends

The first metal truss bridges in the United States were built to carry rail and canal traffic. A rapidly expanding railroad network, with needs for long spans, heavy load capacity and rapid construction, served as the impetus for advances in metal truss technology from the mid-nineteenth century to its close. The earliest metal truss forms of the United States were patented and introduced between 1830 and the Civil War, including the popular Pratt (1844) and Warren (1848) types.

From the Civil War through the end of the century metal truss technology improved in response to increasing loads and speeds, and new transportation needs; steel began to replace iron; numerous "bridge works" and "iron works" were established in the eastern U.S. for fabricating and shipping the truss components to the bridge site; and expanding road networks required a low cost, expedient bridge type.

General Trends in Maryland

In Maryland, the earliest metal truss bridges carried rail lines, including the Baltimore & Ohio (B&O) and the Baltimore and Susquehanna Railroads. As early as 1849, B&O Chief Engineer Benjamin H. Latrobe recommended the construction of metal truss bridges for "large crossings"; in 1850 he reported "much satisfaction" with the future of iron bridges after constructing the metal truss bridge at Savage.

Numerous metal truss bridges were manufactured in Baltimore, the early industrial hub of bridge building activity in the state, from the 1850s through the 1880s. Among the early bridge builders in the 1850s and 1860s were former B&O employees, B.H. Latrobe and Wendell Bollman, founders of competing Baltimore bridge building companies. Historical research identified more than twenty-five bridge companies that built truss bridges in the state between 1850 and 1920. Among these were the Wrought Iron Bridge Company, King Iron Bridge Company, Patapsco Bridge and Iron

Works, Baltimore Bridge Company, Pittsburg Bridge Company, Penn Bridge Company, Smith Bridge Company, Groton Bridge and Manufacturing Company, Roanoke Iron and Bridge Company, York Bridge Company, Vincennes Bridge Company, Bethlehem Steel Company, American Bridge Company.

The location of the Baltimore & Ohio Railroad, Baltimore bridge fabricators, and the urban needs of the city and its environs resulted in the erection of numerous early truss bridges in Baltimore and the surrounding area. Initially constructed for the railroads, their use quickly came to replace the earlier timber bridges on Baltimore roads.

From Baltimore, the use of the metal truss spread to other parts of the state, with County Commissioners in the Piedmont and Appalachian Plateau counties erecting numerous metal trusses from the 1870s to the early twentieth century. Frederick County erected numerous truss spans during that time. Records indicate that in the early twentieth century the York Bridge Company built a number of metal trusses there, primarily Pratt but also Warren and Parker trusses. In the same county, King Iron Bridge Manufacturing Company erected several bowstring pony truss bridges.

Frederick County Trends

In 1854, the weekly <u>Frederick Examiner</u> announced that wrought iron was being used as a bridge material and proved to be stronger than the wood truss construction that had been in general use. At that time it was hoped that such an iron bridge would soon be constructed in Frederick County.

It appears from the Frederick County Commissioners Minutes that iron truss bridges became popular in the area during the 1870s. Records show that a variety of companies, including Groton Manufacturing Company, Groton, New York; Wrought Iron Bridge Company, Canton Ohio; King Iron Bridge Company, Cleveland Ohio; and the Pittsburg Bridge Company, Pittsburgh, Pennsylvania, constructed bridges throughout the county. Iron truss bridges were an innovative step toward good bridge engineering design in the nineteenth century and were the pride of every community.

Truss bridges appear to have been the most popular form of bridge construction in Frederick County between the 1870s and 1930s. Large numbers were built to span small crossings, greatly facilitating vehicular movement and communications throughout the developing county. Frederick County once had scores of such bridges; however, as technology and use requirements have changed, they have been replaced at an increasing rate. According to information provided to the Maryland Historical Trust by Frederick County Department of Public Works, as reported in a prior Maryland Historical Trust survey form, 24 metal truss bridges remained on county roads.

Fifteen extant metal truss bridges were identified in Frederick County as a result of SHA's 1994-1995 historic bridge survey:

F-312, single span Pratt pony truss built c. 1900

F-405, single span Pratt through truss built in 1882

F-407, single span Pratt through truss built in 1914

F-506, single span Parker truss built in 1908

F-508, single span Pratt pony truss built in 1908

F-510, single span Pratt through truss built in 1914

F-1202, single span Pratt pony truss built c. 1900-1910

F-1624, single span Pratt pony truss built in 1918

F-1701, single span Pratt through truss built c. 1890-1900

F-2203, single span, double intersection Pratt truss built 1878
F-2204, single span Pratt through truss built c. 1910
10017, eight span camelback truss built in 1939
10018, a single span Pratt truss built in 1934
10029, single span Camelback truss built in 1931
10055, two Pratt through trusses built in 1932

When the bridge was built and/or given a major alteration, did it have a significant impact on the growth and development of the area?

Metal truss bridges were reliable spans, providing safe crossings throughout the year in most weather conditions. In rural areas, such as this one, they served to facilitate local travel, and probably did not have a significant impact on the growth and development of the area.

Is the bridge located in an area which may be eligible for historic designation and would the bridge add to or detract from the historic/visual character of the potential district?

The bridge is not located in an area which may be eligible for historic designation.

Is the bridge a significant example of its type?

This bridge is not a significant example of its type. However, Bridge F-312 represents an increasingly rare example of the small span structures that were once common throughout rural Maryland. It is unusually configured: oddly spaced panels, added rolled sections, and it is placed on later concrete abutments.

Does the bridge retain integrity of important elements described in Context Addendum?

This bridge retains integrity of location, setting, feeling and association. The truss components appear to be intact, and superstructure alterations (for lateral stability) may have taken place within the historic period. The substructure has been altered significantly.

Is the bridge a significant example of the work of a manufacturer, designer, and/or engineer?

It is not known if the bridge is a significant example of the work of a manufacturer, designer, and/or engineer. No plaque on the structure indicates the construction date or manufacturer. According to the prior MHT survey form, the bridge is similar to those built by the York Bridge Company in the early part of the twentieth century.

Should the bridge be given further study before an evaluation of its significance is made?

Bridge F-312 is listed in the Maryland Historical Trust's Inventory of historic sites. No further study is recommended.

BIBLIOGRAPHY:

County inspection/bridge files X SHA inspection/bridge files Other (list):

County survey files of the Maryland Historical Trust

P.A.C. Spero & Company and Louis Berger & Associates, Historic Highway Bridges in Maryland: Historic Context Report. Prepared for the Maryland State Highway Administration.

SURVEYOR:

Date bridge recorded January 1996

Name of surveyor Paula Spero/Colin Farr
Organization/Address P.A.C. Spero & Co., 40 W. Chesapeake Avenue, Suite 412, Baltimore,
Maryland 21204

Phone number 410-296-1635 FAX number 410-296-1670





INDIVIDUAL PROPERTY/DISTRICT MARYLAND HISTORICAL TRUST INTERNAL NR-ELIGIBILITY REVIEW FORM

Property/District Name: Mount Tabor Sta	tion Bridge Survey Number: F-4-3
Project: _Rehabilitation of Station Road	Truss Agency: COE/Frederick County
Site visit by MHT Staff: _X_ no yes	Name Date
Eligibility recommended X Elig	ibility not recommended
Criteria: X_ABCD Consider	ations:ABCDEFGNone
Justification for decision: (Use contin	uation sheet if necessary and attach map)
Middletown vicinity is thought to have manufacturer is unknown, it is similar to early part of the twentieth century. Una association with the development of trans represent an important step in engineering result of intensive experimentation in the these bridges were the most popular form the 1870s and 1930s. Large numbers were by vehicular movement and communication throughout the tension of such bridges; however, as ave been replaced at an increasing rate. Historical Trust by the Frederick County bridges remain on County roads today, replacement. Thus, the Mount Tabor Stat of modest structure once common throughout.	d on Station Road over the Catoctin Creek in the ye been constructed circa 1920. Although its those constructed by the York Bridge Company in the der Criterion A, the bridge is significant for its portation in Frederick County. Metal truss bridges ng design and a uniquely American achievement, the s 19th century. Relatively cheap and easy to build, of bridge construction in Frederick County between ouilt to span small crossings, greatly facilitating ughout the developing County. Frederick County once technology and use requirements have changed, they According to information provided to the Maryland y Department of Public Works, only 27 metal truss A number of these are currently slated for ion Bridge is an increasing rare example of a type it rural Maryland. presented in: Inventory Form F-4-3, Project File
Prepared by: Cherilyn Widell	
Elizabeth Hannold	February 27, 1995
Reviewer, Office of Preservation Se	
NR program concurrence: 🖊 yes no	not applicable
7 andrew	2.28-95
Reviewer, NR program	Daye

2,00

Survey	No.	F-4-3	

MARYLAND COMPREHENSIVE HISTORIC PRESERVATION PLAN DATA - HISTORIC CONTEXT

÷	Geographic Region:	
	Western Shore (Anne	Eastern Shore counties, and Cecil) Arundel, Calvert, Charles, ace George's and St. Mary's)
x	Piedmont (Balt	timore City, Baltimore, Carroll, Berick Harford, Howard, Montgomery)
	Western Maryland (Alle	egany, Garrett and Washington)
ı.	Chronological/Developmental Periods	ş :
X	Paleo-Indian Early Archaic Middle Archaic Late Archaic Early Woodland Middle Woodland Late Woodland/Archaic Contact and Settlement Rural Agrarian Intensification Agricultural-Industrial Transition Industrial/Urban Dominance Modern Period Unknown Period (prehistoric Prehistoric Period Themes: Subsistence Settlement X Political Demographic Religion Technology Environmental Adaption	10000-7500 B.C. 7500-6000 B.C. 6000-4000 B.C. 4000-2000 B.C. 2000-500 B.C. 500 B.C A.D. 900 A.D. 900-1600 A.D. 1570-1750 A.D. 1680-1815 A.D. 1815-1870 A.D. 1870-1930 A.D. 1930-Present historic) IV. Historic Period Themes: Agriculture Architecture, Landscape Architecture, and Community Planning Economic (Commercial and Industrial) Government/Law Military Religion Social/Educational/Cultural Transportation
v.	Resource Type:	
	Category: structure	
	Historic Environment:rural	
	Historic Punction(s) and Use(s):	transportation, vehicular
	Historic Punction(s) and service	
	Known Design Source: Unknown	

F-4-3 Mount Tabor Station Bridge Middletown Public

The Mount Tabor Station Bridge is a single span steel pony truss bridge of pratt design with guardrail which spans Catoctin Creek near Middletown, Maryland. The single lane bridge is set upon random stone abutments and is approximately thirty feet in length and fifteen feet wide. Joints of the bridge are secured with pinned connections. No plaque on the structure indicates the construction date or manufacturer although, the bridge is similar to those built by the York Bridge Company in the early part of the twentieth century.

In 1854, the weekly <u>Frederick Examiner</u> announced that wrought iron was being used as a bridge material and proved to be stronger than the wood truss construction that had been in general use. At that time it was hoped that such an iron bridge would soon be constructed in Frederick County.

It appears from the Frederick County Commissioners Minutes that iron truss bridges became popular in the area during the 1870's. Records show that a variety of companies, including Groton Manufacturing Company, Groton, New York; Wrought Iron Bridge Company, Canton, Ohio; King Iron Bridge Company, Cleveland, Ohio; and the Pittsburgh Bridge Company, Pittsburgh, Pennsylvania, constructed bridges throughout the county. Iron truss bridges were an innovative step toward good bridge engineering design in the nineteenth century and were the pride of every community.

INVENTORY FORM FOR STATE HISTORIC SITES SURVEY

	to a professional contractions				
HISTORIC Mount Ta	bor Station Bridge				
AND/OF COMMON					
LOCATION	18-2-18-18-18-18-18-18-18-18-18-18-18-18-18-				
STREET & NUMBER					
Mount Tabor Stat	ion Road over Cato	ctin Creek	2002		
CITY TOWN		VICINITY OF	E.D	RESSIONAL DISTI	RICT
Middletown STATE	-	VICTOR 17 DI	COUN	TY	
Maryland			Fre	derick	
CLASSIFICAT	ION				
CATEGORY	OWNERSHIP	STATUS		PRES	SENT USE
DISTRICT X	PUBLIC	_OCCUPIED	53	AGRICULTURE	_MUSEUM
	PRIVATE	UNOCCUPIED		COMMERCIAL	_PARK
	вотн	_WORK IN PROGRESS		EDUCATIONAL	_PRIVATE RESIDES
	PUBLIC ACQUISITION	ACCESSIBLE	-	ENTERTA:NMENT	
The state of the s	IN PROCESS	_YES RESTRICTED		GOVERNMENT	_SCIENTIFIC
-	BEING CONSIDERED	XYES UNRESTRICTED		MILITARY	XTRANSPORTATIO
	RIPPRIT				
OWNER OF PI	County Roads Dept.		E2 20 12	127	
			Teleph	one #:	
NAME Frederick			Teleph		
NAME Frederick STREET & NUMBER Montevue Lane, CITY 10WN				STATE,	zip code
NAME Frederick STREET & NUMBER Montevue Lane, CITY TOWN Frederick	County Roads Dept.	VICINITY OF		STATE,	zip code 21701
NAME Frederick STREET & NUMBER Montevue Lane, CITY TOWN Frederick		OWNERS AND PROPERTY.		STATE,	
NAME Frederick STREET & NUMBER Montevue Lane, CITY TOWN Frederick	County Roads Dept.	OWNERS AND PROPERTY.		STATE, : Maryland #:	
NAME Frederick STREET & NUMBER Montevue Lane, CITY TOWN Frederick LOCATION O	County Roads Dept.	OWNERS AND PROPERTY.	Liber	STATE, : Maryland #:	
NAME Frederick STREET & NUMBER Montevue Lane, CITY TOWN Frederick LOCATION O	County Roads Dept.	OWNERS AND PROPERTY.	Liber	STATE, : Maryland #:	
NAME Frederick STREET & NUMBER Montevue Lane, CITY TOWN Frederick LOCATION O COURTHOUSE REGISTRY OF DEEDS, ETC. STREET & NUMBER CITY, TOWN	County Roads Dept.	IPTION	Liber Folio	STATE, : Maryland #: #:	
NAME Frederick STREET & NUMBER Montevue Lane, CITY TOWN Frederick LOCATION O COURTHOUSE REGISTRY OF DEEDS, ETC. STREET & NUMBER CITY, TOWN	County Roads Dept.	IPTION	Liber Folio	STATE, : Maryland #: #:	
NAME Frederick STREET & NUMBER Montevue Lane, CITY TOWN Frederick LOCATION OF COURTHOUSE, REGISTRY OF DEEDS, ETC. STREET & NUMBER CITY, TOWN REPRESENTA	County Roads Dept.	IPTION	Liber Folio	STATE, : Maryland #: #:	
NAME Frederick STREET & NUMBER Montevue Lane, CITY TOWN Frederick LOCATION OF COURTHOUSE REGISTRY OF DEEDS, ETC. STREET & NUMBER CITY TOWN REPRESENTA TITLE DATE	County Roads Dept.	IPTION	Liber Folio	STATE, : Maryland #: #:	21701
NAME Frederick STREET & NUMBER Montevue Lane, CITY TOWN Frederick LOCATION OF COURTHOUSE, REGISTRY OF DEEDS, ETC. STREET & NUMBER CITY TOWN REPRESENTA	County Roads Dept.	IPTION	Liber Folio	STATE , : Maryland #: #: state	21701



CONDITION

CHECK ONE

CHECK ONE

__EXCELLENT

_DETERIORATED

_AUINS

__UNALTERED

_ORIGINAL SITE

_FAIR

__HUINS

_MOVED

DATE

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

The Mount Tabor Station Bridge is a single span steel pony truss bridge of pratt design with guardrail which spans Catoctin Creek near Middle-town, Maryland.

The single lane bridge is set upon random stone abutments and is approximately thirty feet in length and fifteen feet wide. Joints of the bridge are secured with pinned connections. No plaque on the structure indicates the construction date or manufacturer although, the bridge is similar to those built by the York Bridge Company in the early part of the twentieth century.

8 SIGNIFICANCE

F-4-3

SPECIFIC DAT	ES	BUILDER/ARCI	HITECT York Bridge (Co. (?)
		_INVENTION		
_1900	COMMUNICATIONS	INDUSTRY	POLITICS/GOVERNMENT	_OTHER ISPECIFY
_1800-1899	COMMERCE	_EXPLORATION/SETTLEMENT	_PHILOSOPHY	X_TRANSPORTATION
_1700-1799	_ART	X_ENGINEERING	_MUSIC	THEATER
_1600-1699	ARCHITECTURE	EDUCATION	_MILITARY	_SOCIAL/HUMANITARIAN
500-1599	AGRICULTURE	ECONOMICS	_LITERATURE	SCULPTURE
1400-1499	ARCHEOLOGY-HISTORIC	CONSERVATION	_LAW	SCIENCE
PREHISTORIC	ARCHEOLOGY-PREHISTORIC	_COMMUNITY PLANNING	_LANDSCAPE ARCHITECTURE	RELIGION
PERIOD	Al	REAS OF SIGNIFICANCE CH	ECK AND JUSTIFY BELOW	20254.000055

STATEMENT OF SIGNIFICANCE

In 1854, the weekly <u>Frederick Examiner</u> announced that wrought iron was being used as a bridge material and proved to be stronger than the wood truss construction that had been in general use. At that time it was hoped that such an iron bridge would soon be constructed in Frederick County.

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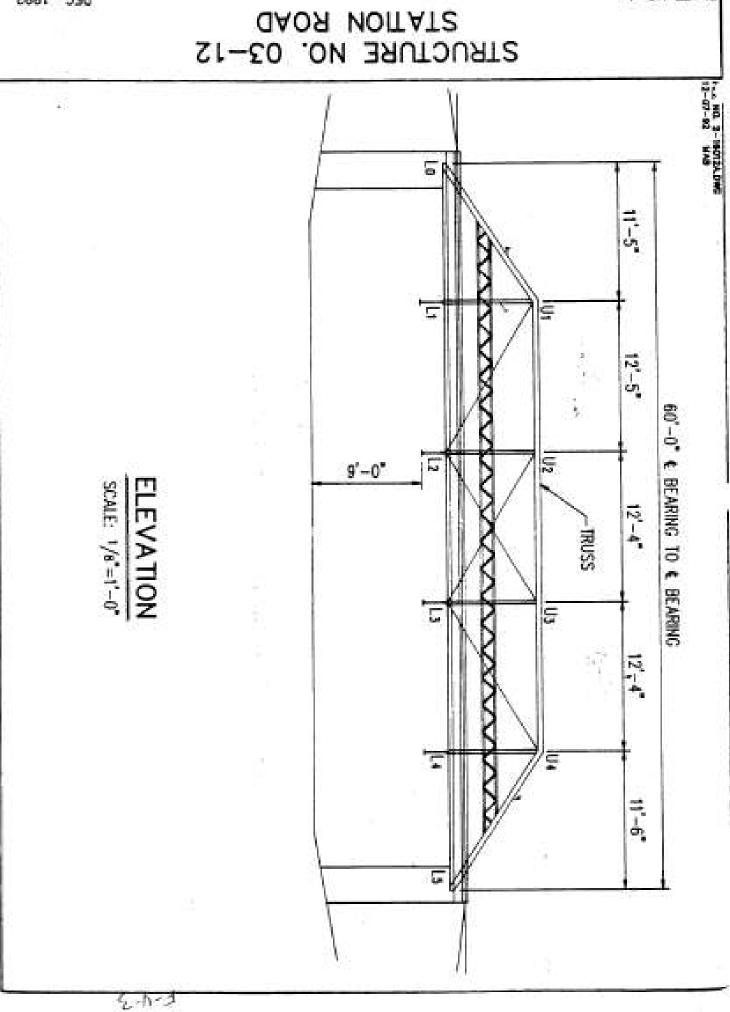
9 MAJOR BIBLIOGRAPHICAL REFERENCES

CONTINUE ON SEPARATE SHEET IF NECESSAR	Y
10 GEOGRAPHICAL DATA	
ACREAGE OF NOMINATED PROPERTY	
VERBAL BOUNDARY DESCRIPTION	
LIST ALL STATES AND COUNTIES FOR PROPERTIES OVER	PLAPPING STATE OR COUNTY BOUNDARIES
STATE	TY
STATE COUN	TY
FORM PREPARED BY	
ACCUSATE OF A CONTROL OF THE SECOND OF THE S	
Cherilyn Widell, Sites Analyst	DATE
Frederick County Office of Historic Preserv	ation 9/26/78 TELEPHONE
12 East Church St., Winchester Hall	694-1063
CITY OR TOWN	Maryland
Frederick	naryrann

The Maryland Historic Sites Inventory was officially created by an Act of the Maryland Legislature, to be found in the Annotated Code of Maryland, Article 41, Section 181 KA, 1974 Supplement.

The Survey and Inventory are being prepared for information and record purposes only and do not constitute any infringement of individual property rights.

RETURN TO: Maryland Historical Trust The Shaw House, 21 State Circle Annapolis, Maryland 21401 (301) 267-1438



DEC" 1885

PLATE NO. 1