

Maryland Historical Trust

Maryland Inventory of Historic Properties number: WA-I-731

Name: W-2127 / MD843B (Rock Hills) over  
UNNAMED ~~BR~~ TRIP. OF CONOCOCHEAQUE CRK

The bridge referenced herein was inventoried by the Maryland State Highway Administration as part of the Historic Bridge Inventory, and SHA provided the Trust with eligibility determinations in February 2001. The Trust accepted the Historic Bridge Inventory on April 3, 2001. The bridge received the following determination of eligibility.

<b>MARYLAND HISTORICAL TRUST</b>	
Eligibility Recommended <input checked="" type="checkbox"/> X <input type="checkbox"/>	Eligibility Not Recommended <input type="checkbox"/>
Criteria: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D	Considerations: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> None
Comments: _____ _____ _____	
Reviewer, OPS: <u>Anne E. Bruder</u>	Date: <u>3 April 2001</u>
Reviewer, NR Program: <u>Peter E. Kurtze</u>	Date: <u>3 April 2001</u>

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

MHT No. WA-I-731

SHA Bridge No. W-2127 Bridge name Rock Hill Road (Route 843B) over Unnamed  
Tributary of the Conococheague Creek

**LOCATION:**

Street/Road name and number [facility carried] Rock Hill Road (Route 843B)

City/town Hagerstown Vicinity North of Williamsport

County Washington

This bridge projects over: Road  Railway  Water  Land

Ownership: State  County  Municipal  Other

**HISTORIC STATUS:**

Is the bridge located within a designated historic district? Yes  No

National Register-listed district  National Register-determined-eligible district

Locally-designated district  Other

Name of district \_\_\_\_\_

**BRIDGE TYPE:**

Timber Bridge :

Beam Bridge  Truss -Covered  Trestle  Timber-And-Concrete

Stone Arch Bridge

Metal Truss Bridge

Movable Bridge :

Swing  Bascule Single Leaf  Bascule Multiple Leaf

Vertical Lift  Retractable  Pontoon

Metal Girder :

Rolled Girder  Rolled Girder Concrete Encased

Plate Girder  Plate Girder Concrete Encased

Metal Suspension

Metal Arch

Metal Cantilever

Concrete :

Concrete Arch  Concrete Slab  Concrete Beam  Rigid Frame

Other  Type Name \_\_\_\_\_

**DESCRIPTION:**

**Setting:** Urban \_\_\_\_\_ Small town  X  Rural \_\_\_\_\_

**Describe Setting:** Bridge No. W-2127 carries Rock Hill Road over an unnamed tributary of the Conococheague Creek in Washington County. Rock Hill Road runs north-south, and the tributary runs generally east-west. The bridge is situated near a single family homes.

**Describe Superstructure and Substructure:**

This bridge appears to match Maryland SHA Design Standards from 1919 for concrete slab bridges or has possibly been modified from this design. The bridge is a single span two-lane concrete slab. It is 24' in length, 24' wide, and has a span length of 26'. The superstructure consists of a concrete slab with closed concrete parapets. The parapets have no decorative scoring or details. The substructure consists of concrete abutments, flared wingwalls, and a pier. Footing type and depth are unknown. The wearing surface is surface treatment. There is stone rip rap at both banks. There are no guardrails, and the bridge is not posted. The old SHA identification number 21027 is visible on the structure.

According to the most recent bridge inspection report from 1993 the condition of the bridge is as follows. The wingwalls are in fair condition. The concrete is spalled and cracked with a good deal of efflorescence. There are several vertical cracks through both parapets, however, these cracks do not extend into the slab. There are several vertical and horizontal cracks with efflorescence in both abutments. There is some cracking, spalling, and efflorescence at the horizontal construction joint between the parapet and slab on the exterior face of the parapet at the inlet end. Except for the items noted above, the concrete is in generally good condition although discolored and weathered due to age. There is no evidence of scour.

**Discuss Major Alterations:**

Washington County bridge files do not contain information pertaining to any repairs made the structure, the extent thereof, or when they took place.

**HISTORY:**

**WHEN was the bridge built (actual date or date range)**  circa 1920

**This date is:** Actual \_\_\_\_\_ Estimated  X

**Source of date:** Plaque \_\_\_\_\_ Design plans  X  County bridge files/inspection form \_\_\_\_\_

**Other (specify)** \_\_\_\_\_

**WHY was the bridge built?**

Unknown

**WHO was the designer?**

Unknown

**WHO was the builder?**

Unknown

**WHY was the bridge altered?**

Extent of alterations/repairs unknown

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

Yes. This bridge was constructed as a part of post World War I improvements to secondary roads in Maryland.

**SURVEYOR/HISTORIAN ANALYSIS:**

**This bridge may have National Register significance for its association with:**

- A - Events \_\_\_\_\_ B- Person \_\_\_\_\_  
 C- Engineering/architectural character \_\_\_\_\_

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

Reinforced concrete slab bridges are a twentieth century structure type, easily adapted to the need for expedient engineering solutions. Reinforced concrete technology developed rapidly in the early twentieth century with early recognition of the potential for standardized design. The first U.S. attempt to standardize concrete design specifications came in 1903-04 with the formation of the Joint Committee on Concrete and Reinforced Concrete of the American Society of Civil Engineers.

Maryland's road and bridge improvement programs mirrored economic cycles. The first road improvement program of the State Roads Commission was a 7 year program, starting with the Commission's establishment in 1908 and ending in 1915. Due to World War I, the period from 1916-1920 was one of relative inactivity; only roads of first priority were built. Truck traffic resulting from war-related factories and military installations generated new, heavy traffic unanticipated by the builders of the early road system. From 1920 to 1929, numerous highway improvements occurred in response to the increase in Maryland motor vehicles from 103,000 in 1920 to 320,000 in 1929, with emphasis on the secondary system of feeder roads which moved traffic from the primary roads built before World War I. After World War I, Maryland's bridge system also was appraised as too narrow and structurally inadequate for the increasing traffic, with plans for an expanded bridge program to be handled by the Bridge Division, set up in 1920. In 1920 under Chapter 508 of the Acts of 1920 the State issued a bond of \$3,000,000.00 for road construction; the primary purpose of these monies was to meet the state obligations involving the construction of rural post roads. The secondary purpose of these monies was to fund [with an equal sum from the counties] the building of lateral roads. The number of hard surfaced roads on the state system grew from 2000 in 1920 to 3200 in 1930. By 1930, Maryland's primary system had become inadequate to the huge freight trucks and volume of passenger cars in use, with major improvements occurring in the late 1930s. Most improvements to local roads waited until the years after World War II.

With a diverse topographical domain encompassing numerous small and large crossings, Maryland engineers quickly recognized the need for expedient design and construction.

In the early years, there was a need to replace the numerous single lane timber bridges. Walter Wilson Crosby, Chief Engineer stated in 1906, "The general plan has been to replace these [wood bridges] with pipe culverts or concrete bridges and thus forever do way with the further expense of the maintenance of expensive and dangerous wooden structures". Within a few years, readily constructed standardized bridges of concrete were being built throughout the state.

The creation of standard plans and a description of their use was first announced in the 1912-15 Reports of the State Roads Commission whereby bridges spanning up to 36 feet were to use standardized designs.

Published on a single sheet, the 1912 Standard Plans included those structures that were amenable to such an approach: slab spans, (deck) girder spans, box culverts, box bridges, abutments, and piers (State Roads Commission 1912). Slab spans, with lengths of 6 to 16 feet in two foot increments, featured a solid parapet that was integrated into the slab, with a roadway of 22 feet.

In the Report for the years 1916-1919, a revision of the standard plans was noted:

During the four years covered by this report, it has been found necessary to revise our standard plans for culverts and bridges, to take care of the increased tonnage which they have been forced to carry. Army cantonments...increased their operations several hundred per cent, and the brunt of the enormous truck traffic resulting therefrom, was borne by the State Roads of Maryland. In addition to these war activities, freight motor lines from Baltimore to Washington, Philadelphia, New York, and various points throughout Maryland, and the weight of many of these trucks when loaded, was in excess of the loads for which our early bridges were designed (State Roads Commission 1920:56).

Published on separate sheets, the new standard plans (State Roads Commission 1919) for slab bridges reveal that the major changes was an increase in roadway width from 22 feet to 24 feet and a redesign of the reinforcement. The slab spans continued to feature solid parapets integrated into the span. The range of span lengths remained 6 to 16 feet, but the next year (1920) witnessed the issue of a supplemental plan for a 20 foot long slab span (State Roads Commission 1920).

**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?**

Unknown.

**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?**

No. This bridge is not located in an area which may be eligible for historic designation.

**Is the bridge a significant example of its type?**

No. Bridge No. W-2127 is one of many concrete slab bridges built after the first World War in Maryland, and it is an undistinguished example of its type.

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

Yes. This bridge appears to have its character defining elements intact, and according to the most recent inspection report it is good condition.

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

There are no county records which indicate this is a significant example of the work of a manufacturer, designer, or engineer.

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

No further evaluation is necessary to determine National Register significance. Although it reflects the state's post World War I expansion of secondary road systems, it is an undistinguished example of its type. However, additional research concerning the history of this bridge and its relationship to the surrounding landscape may be useful in providing a more complete picture of the bridge's background.

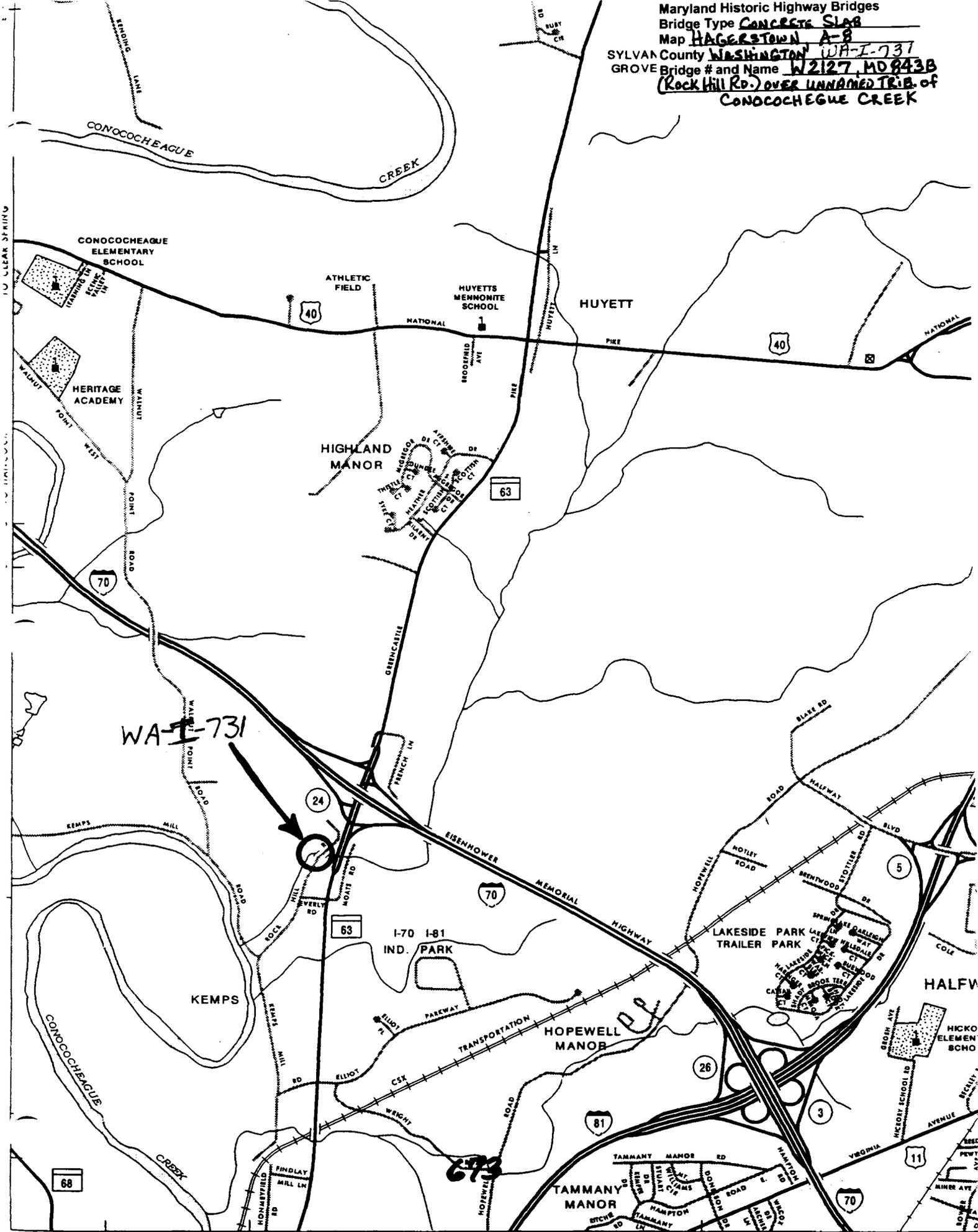
**BIBLIOGRAPHY:**

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

**SURVEYOR:**

Date bridge recorded   August 1995    
Name of surveyor   Adrienne Beudet Cowden    
Organization/Address   P.A.C. Spero & Company; 40 West Chesapeake Avenue, Suite 412; Baltimore, Maryland 21204    
Phone number   410-296-1635   FAX number   410-296-1670

Maryland Historic Highway Bridges  
 Bridge Type CONCRETE SLAB  
 Map HAGERSTOWN A-8  
 SYLVAN County WASHINGTON WA-I-731  
 GROVE Bridge # and Name W2127, MD 843B  
(Rock Hill Rd.) OVER UNNAMED TR.B. of  
CONOCOHEGUE CREEK





BR # 20W21211D WAT 4-1

OVER CONSCIENCE CREEK  
WASHINGTON CO., N.D.

DAVID KING

2/22/95

S. K. A.

WAT 3 APPROACH

1 OF 4



32# 206212710 1/31

3 ER CONDOR FLAQUE CREEK

WASHINGTON CO. MD

DAVID KING

2/22/95

S.H.A.

EAST APPROACH

2 of 4



BR # 20W212710 A 7 72

OVER CONOCOCOE-LEAGUE CREEK

WASHINGTON CO., MD.

DAVID KING

2/22/95

S.F.A

NORTH ELEVATION (UPSTREAM)

3 OF 4



BR # 20W212710 ... N. 191

OVER CONOCOCHEEGUE CREEK

WASHINGTON (D. C.)

DAVID KING

2/22/45

S. H. A.

SOUTH LLEWELLOU (DOWNSIDE)

4 OF 4