

Maryland Historical Trust

Maryland Inventory of Historic Properties Number: CAR-292

Name: #5003/MD 313 over Long Marsh Ditch

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.

MARYLAND HISTORICAL TRUST	
Eligibility Recommended <input type="checkbox"/>	Eligibility Not Recommended <input checked="" 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>

*July*

MARYLAND INVENTORY OF HISTORIC PROPERTIES  
HISTORIC BRIDGE INVENTORY  
MARYLAND STATE HIGHWAY ADMINISTRATION  
MARYLAND HISTORICAL TRUST

MHT NO. CAR-292

NAME AND SHA NO.: 5003

LOCATION

Road Name and Number: MD 313 over Long Marsh Ditch

City/Town: Baltimore Corner  vicinity

County: Caroline

Ownership:  State  County  Municipal  Other

Bridge projects over:  Road  Railway  Water  Land

Is bridge located within designated district?:  yes  no  
 NR listed district  NR determined eligible district  
 locally designated  other  
Name of District

BRIDGE TYPE

- Timber Bridge  
 Beam Bridge  Truss-Covered  Trestle  Timber-and-Concrete
- Stone Arch Bridge
- Metal Truss Bridge
- Moveable 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

### **Describe the Setting:**

Bridge 5003 carries MD 313 over Long Marsh Ditch at the boundary between Caroline and Queen Anne's counties. MD 313 runs in a generally east-west direction at this location; Long Marsh Ditch flows north-south. Several houses are visible from the bridge, but the property adjacent to the bridge is primarily agricultural. Bridge 5003 is located within the Piedmont physiographic province which is characterized by variegated topography and hilly terrain created by waterways cutting through the valleys.

### **Describe the Superstructure and Substructure: (Discuss points identified in Context Addendum, Section C)**

Bridge 5003 is a 3-span structure consisting of two concrete girder spans and one concrete slab span with a total bridge length of 85 ±. A 1958 inspection report indicates that clear span lengths are 21', 25', and 19'-8", however, this report does not specify which measurements are for the concrete beam spans or the concrete slab span. The bridge carries two lanes of traffic and has a clear roadway width of 22' with 6' shoulders. Metal W-beam guardrails are connected to the solid concrete parapets. The parapets feature inset rectangular panels and concrete caps.

The substructure of this bridge consists of concrete abutments, concrete and metal piers, and concrete wing walls. When the bridge was lengthened circa 1929, one abutment was adapted for use as a pier. Underpinning in 1962 and emergency repairs to the piers and the southern span in May 1990 resulted in the use of steel bents for reinforcement of these elements.

Minor structural problems such as cracking of the parapets and the deck were mentioned and later repaired according to inspection reports dating from 1972 and 1976. Serious defects in the superstructure - cracking and spalling of the abutments, wing walls, piers, girders, parapets, and deck, as well as exposed and rusted reinforcing bars - were indicated in inspection reports from 1978 and 1980.

Structural defects noted in a 1994 inspection report included deck deterioration, major spalling of concrete in the southeast wing wall, scour at the nose of pier 1, major undermining of the south approach roadway, and deterioration of the parapets.

A survey of historic concrete beam bridges undertaken by the Maryland State Highway Administration in the Fall of 1995 identified 113 bridges of that type located throughout the state. Nine percent (10) of that total were triple-span bridges; 37 bridges (33%) were multiple span.

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**MHT NO. CAR-292**

**Discuss major alterations:**

The concrete girder spans were constructed in 1912, and the concrete slab was added in 1929 to lengthen the structure (Pier 2 was apparently Abutment B at one time). Steel bents were used to underpin the bridge in 1962 and 1990. This bridge is on tour for replacement but as of May 1994 it has not been scheduled

**HISTORY**

**When Built:** 1912

**Why Built:** Unknown

**Who Built:** State Roads Commission of Maryland

**Who Designed:** Unknown

**Why Altered:** Lengthening of the bridge in 1929; deterioration in 1962 and 1990.

**Was this bridge built as part of an organized bridge building campaign?:** No

This bridge was built during the Good Roads Movement era but was not one of the primary corridors slated for improvement.

**SURVEYOR ANALYSIS**

**This bridge may have NR significance for association with:**

A (Events)  B (Person)  C (Engineering/Architectural Character)

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

The improvement of Caroline County roads most likely resulted from several events that occurred during the first three decades of the twentieth century. The original Good Roads movement was aimed toward improving the primary routes through the state as well as connecting roads between counties. A later impact of this crusade included the widening, straightening, and grading of secondary roads, and construction of new bridges to carry these rebuilt roads. Further, the rapid increase of automobile, truck, and bus traffic prompted the replacement of the existing narrow and weak bridges with new, wider, and stronger concrete structures. As time, labor, and money-saving plans created by the State Roads Commission (SRC), the establishment of district engineering offices during the 1910s and the development of standardized bridge designs also aided in the construction of modern bridges throughout the state. During the 1920s, emphasis of the SRC was on improving safety and comfort of main routes while building up the secondary roads and the farm-to-market network of feeder roads. By the 1930s, bridges believed to be adequate when initial road reconstruction was undertaken became unacceptable for modern traffic and many new structures were constructed.

**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?**

No, the construction of this bridge did not have a significant impact on the growth or development of this portion of Caroline County.

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

No, this bridge is not located in area which is potentially eligible as a historic district.

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

No. This bridge has received too many alterations and remains in poor condition for the structure to serve as a significant example of its type.

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

No. Due to the alterations and the poor condition of the wing walls, deck, abutments, and parapets, the bridge does not retain integrity of its character defining elements.

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

No, this bridge does not stand as a significant example of the work of the manufacturer, designer, and/or engineer. This bridge was most likely built to standard state specifications, which corresponded to the structure's span length and year.

**Should this bridge be given further study before significance analysis is made, and why?**

No, this bridge should not receive further study.

### **BIBLIOGRAPHY**

Crosby, Walter Wilson  
1906 *First Report on State Highway Construction (May 1905-January 1906)*. The Johns Hopkins Press, Baltimore.

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HISTORIC BRIDGE INVENTORY  
MARYLAND STATE HIGHWAY ADMINISTRATION  
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MHT NO. CAR-292

Crosby, Walter Wilson

1908 *Second Report on State Highway Construction (January 1906-January 1908)*. The Johns Hopkins Press, Baltimore.

Johnson, A.N.

1903 *Third Report on the Highways of Maryland (1902-1903)*. The Johns Hopkins Press, Baltimore.

LeViness, Charles T.

1958 *A History of Road Building in Maryland*. State Roads Commission of Maryland, Baltimore.

Maryland State Highway Administration

1990 As-built drawings. Located in the files of the Office of Bridge Development, Maryland State Highway Administration, Baltimore.

1987-93 Bridge inspection reports. Located in the files of the Office of Bridge Development, Maryland State Highway Administration, Baltimore.

P.A.C. Spero and Company and Louis Berger and Associates, Inc.

1994 *Historic Bridges in Maryland: Historic Context Report*. Prepared for Maryland State Highway Administration, Maryland State Department of Transportation, Baltimore.

State Roads Commission of Maryland

1930 *Reports of the State Roads Commission of Maryland for the Years 1927, 1928, 1929, and 1930*. State of Maryland, State Roads Commission, Baltimore.

1929-62 As-built drawings. Located in the files of the Office of Bridge Development, Maryland State Highway Administration, Baltimore.

1958-80 Bridge inspection reports. Located in the files of the Office of Bridge Development, Maryland State Highway Administration, Baltimore.

**SURVEYOR INFORMATION**

**Name:** Margaret A. Bishop and Michelle M. Lupien **Date:** 13 May 1996  
**Organization:** KCI Technologies, Inc. **Telephone:** (717) 691-1340  
**Address:** 5001 Louise Dr., Suite 201  
Mechanicsburg, PA 17055





CAR-292

CAROLINE COUNTY

MATT HICKSON

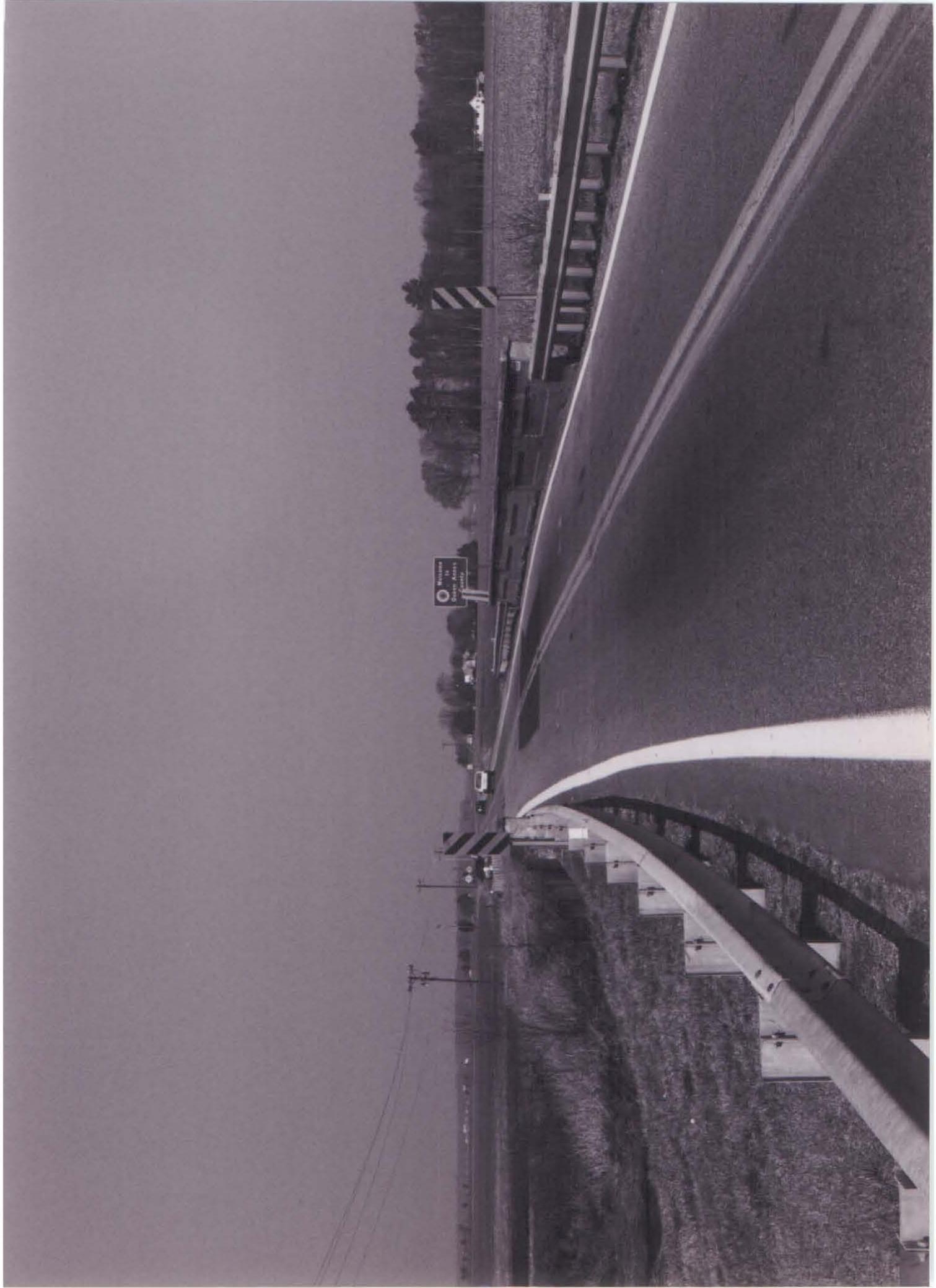
3-16-95

~~MAYNARD SHPO~~ - SHA

BRIDGE 5003, LOOKING SE

1 OF 6

MAR 25 019 JNNS



CAR-292

CAROLINE COUNTY

MATT HICKSON

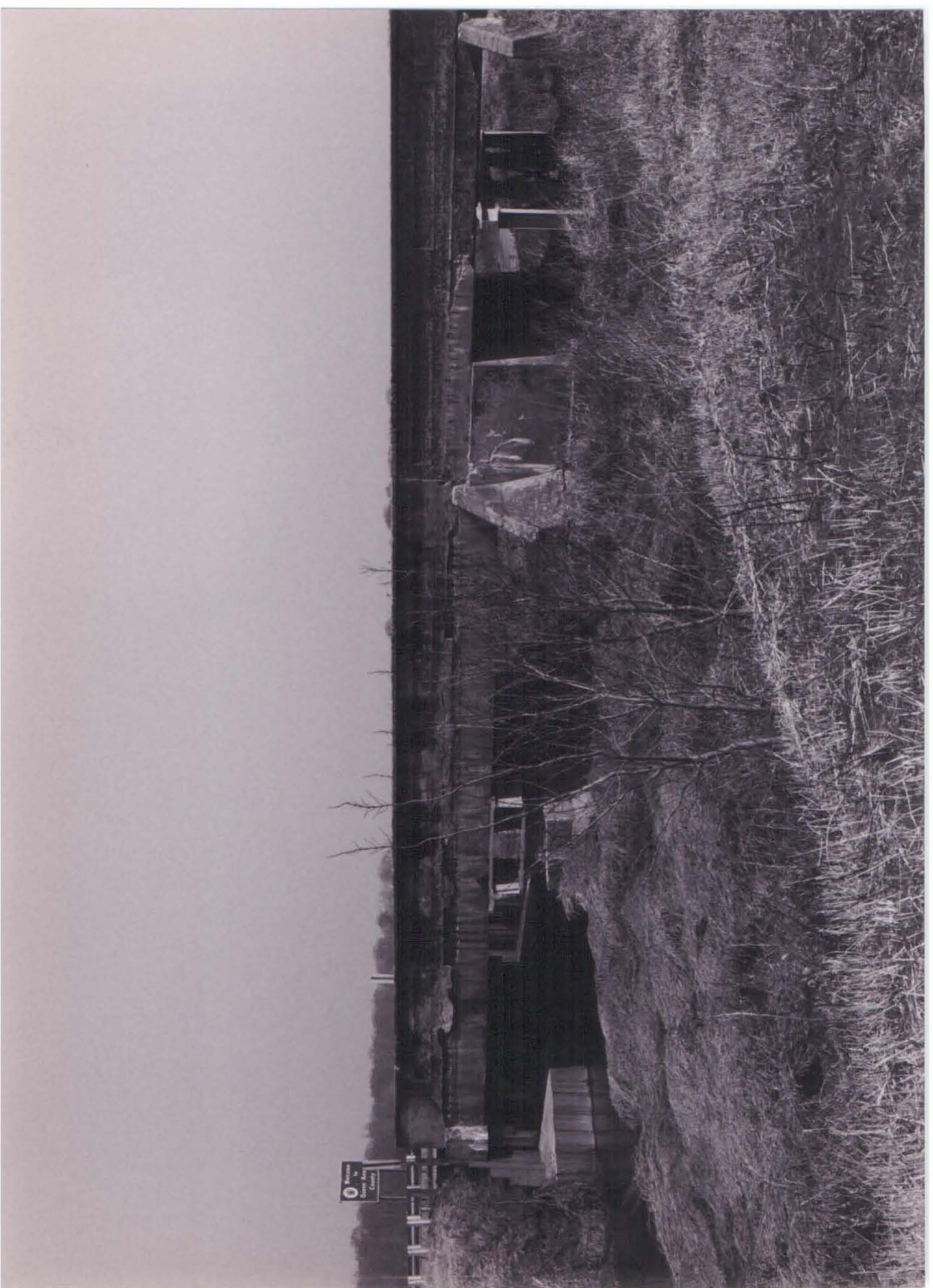
3-16-95

MARSHAND SHPO SHA

BRIDGE 5003, LOOKING NW

ZOF 6

0  
Welcome to  
Stevens County



CAR-292

CAROLINE COUNTY

MATT HICKSON

3-16-95

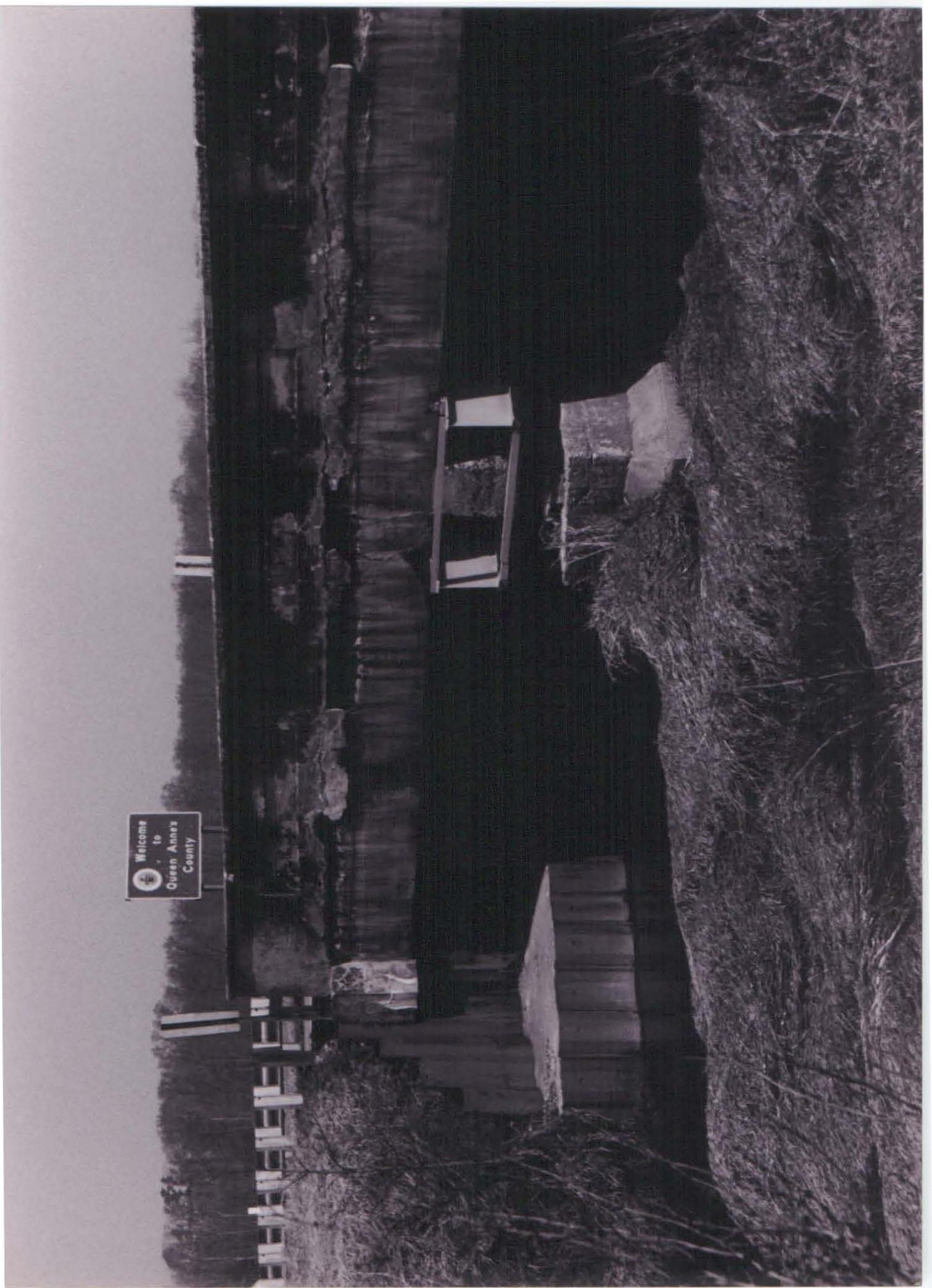
MARYLAND SHPO

SHA

BRIDGE 5003, LOOKING UPSTREAM (NE)

3 OF 6

Welcome  
to  
Queen Annes  
County



CAR-292

CAROLINE COUNTY

MATT HICKSON

3-16-95

MARYLAND SHPO - SHA

BRIDGE 5003, ABUT. & PIER REPAIRS (NW  
END)

4 OF 6



CAR 292

CAROLINE COUNTY

MATT HICKSON

3-16-95

~~MARYLAND SHPO~~ SHA

BRIDGE 5003, SE SPAN ADDED SUPPORT

5 OF 6



CAL-292

CAROLINE COUNTY

MATT HICKSON

3-16-95

~~MARYLAND SHPO~~ - SHA

BRIDGE 5003, LOOKING DOWNSTREAM (SE)

60FG

9603497

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

Property/District Name: Bridge No.5003 Survey Number: CAR-292

Project: Repairs, MD 313 over Long Marsh Ditch Agency: SHA

Site visit by MHT Staff:  no  yes Name \_\_\_\_\_ Date \_\_\_\_\_

Eligibility recommended \_\_\_\_\_ Eligibility **not** recommended

Criteria:  A  B  C  D Considerations:  A  B  C  D  E  F  G  None

Justification for decision: (Use continuation sheet if necessary and attach map)

Bridge No. 5003 is not eligible for the Maryland Register of Historic Properties. The 1912 two span concrete beam bridge was lengthened in 1929 with a concrete slab span. This composite bridge was subsequently altered in 1968 and again in 1990 with repairs to correct structural problems. The bridge today is reinforced with steel bents and has areas of substantial spalling and deterioration. Therefore, we believe the bridge no longer retains sufficient integrity to merit inclusion in the Maryland Register under Criterion C. It has no known association with significant events or people and no known information value, and thus is unlikely to be eligible under Criteria A, B or D. Lastly, it is not located in a known historic district.

On October 4, 1995, the interagency bridge review committee determined the bridge to be ineligible for the National Register of Historic Places

Documentation on the property/district is presented in: Project File, Maryland Inventory  
Form CAR-292

Prepared by: Margaret Bishop & Michelle Lupien, KCI for SHA

Elizabeth Hannold November 12, 1996  
Reviewer, Office of Preservation Services Date

NR program concurrence:  yes  no  not applicable  
Peter S. Kuntz 11/12/96  
Reviewer, NR program Date

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MARYLAND COMPREHENSIVE HISTORIC PRESERVATION PLAN DATA - HISTORIC CONTEXT

I. Geographic Region:

- Eastern Shore (all Eastern Shore counties, and Cecil)
- Western Shore (Anne Arundel, Calvert, Charles, Prince George's and St. Mary's)
- Piedmont (Baltimore City, Baltimore, Carroll, Frederick, Harford, Howard, Montgomery)
- Western Maryland (Allegany, Garrett and Washington)

II. Chronological/Developmental Periods:

- Paleo-Indian 10000-7500 B.C.
- Early Archaic 7500-6000 B.C.
- Middle Archaic 6000-4000 B.C.
- Late Archaic 4000-2000 B.C.
- Early Woodland 2000-500 B.C.
- Middle Woodland 500 B.C. - A.D. 900
- Late Woodland/Archaic A.D. 900-1600
- Contact and Settlement A.D. 1570-1750
- Rural Agrarian Intensification A.D. 1680-1815
- Agricultural-Industrial Transition A.D. 1815-1870
- Industrial/Urban Dominance A.D. 1870-1930
- Modern Period A.D. 1930-Present
- Unknown Period (  prehistoric  historic)

III. Prehistoric Period Themes:

- Subsistence
- Settlement
- Political
- Demographic
- Religion
- Technology
- Environmental Adaption

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 Function(s) and Use(s): transportation-vehicular

Known Design Source: State Roads Commission