

F-2-95

## Bridge, SHA # 10082

### **Architectural Survey File**

This is the architectural survey file for this MIHP record. The survey file is organized reverse-chronological (that is, with the latest material on top). It contains all MIHP inventory forms, National Register nomination forms, determinations of eligibility (DOE) forms, and accompanying documentation such as photographs and maps.

Users should be aware that additional undigitized material about this property may be found in on-site architectural reports, copies of HABS/HAER or other documentation, drawings, and the “vertical files” at the MHT Library in Crownsville. The vertical files may include newspaper clippings, field notes, draft versions of forms and architectural reports, photographs, maps, and drawings. Researchers who need a thorough understanding of this property should plan to visit the MHT Library as part of their research project; look at the MHT web site ([mht.maryland.gov](http://mht.maryland.gov)) for details about how to make an appointment.

All material is property of the Maryland Historical Trust.

***Last Updated: 11-21-2003***

Maryland Historical Trust

Maryland Inventory of Historic Properties Number: F-2-95

Name: MD 180 over Catoctin Creek

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 bridged received the following determination of eligibly.

MARYLAND HISTORICAL TRUST	
Eligibility Recommended <input checked="" type="checkbox"/> X	Eligibility Not Recommended _____
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 Properties  
Historic Bridge Inventory  
Maryland State Highway Administration  
Maryland Historical Trust

MHT Number F-2-95

SHA Bridge No. 10082 Name: MD 180 over Catoctin Creek

**Location:**

Street/Road Name and Number: MD 180 (Jefferson Pike)

City/Town: Petersville Vicinity X

County: Frederick

Ownership: X State    County    Municipal    Other

This bridge projects over:    Road    Railway X Water    Land

Is the bridge located within a designated district:    yes X 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

   Metal Truss

   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

X Concrete

X Concrete Arch    Concrete Slab    Concrete Beam    Rigid Frame

   Other Type Name \_\_\_\_\_

**Describe Setting:**

Bridge 10082 carries MD 180 over Catoctin Creek in Frederick County. MD 180 runs east-west over the southern flowing Catoctin Creek. The area immediately adjacent to the bridge has light residential development. The bridge is surround by forest.

**Describe Superstructure and Substructure:**

Bridge 10082 is a triple-span filled spandrel concrete arch. The length of the bridge is 233 feet. The first and third spans have clear spans of 66 feet while the middle span has a clear span of 75 feet. The rise is approximately 9 feet. The spandrel wall has a 2-inch cove molding around the arch. The spandrel walls are approximately 14 feet high. The abutments are approximately 17 feet high and 24 feet wide. The 2 identical piers are 4.5 feet wide with a 9-foot base. There is a clear roadway width of 24 feet with an overall width of 27 feet 8 inches.

Both piers have heavy erosion at the base. There are several patched areas with 1/16-inch cracks with heavy efflorescence. The second pier's western face has heavy erosion and scaling stemming from weep holes at the top and continuing down the full height of the face. The concrete arch has some fine irregular crack with some patchwork and large spalls and delaminated areas along the outside edges next to the bottom of the spandrel walls. The spandrel walls have some fine and irregular cracks with light scale and discolored areas. According to a 1996 inspection report, the bridge is in satisfactory condition with a sufficiency rating of 78.9.

The parapets are original. The builders used a closed parapet design. This reinforced concrete railing consists of vertical posts securely fastened by dowels to the structure, horizontal rails, and solid panels that fill the space between the posts and railings. The panels may be precast, and the posts and rails were built in place. Expansion joints separate the panels. The parapets are in 3 sections. Each section has 7 panels with 9 open panels measuring 66 feet across. Several sections have small and medium areas of spalling with rusting and exposed reinforcement bars. There is a slight misalignment of the parapet cap. A few fine vertical cracks have light efflorescence. The parapets have guardrails and tie bar attachments.

**Discuss Major Alterations:**

In 1991 the State Highway Administration added new double-faced guardrail, attached to the existing parapet along the interior full-length of the bridge. A single faced guardrail was used as backing for double-faced guardrail. The concrete deck slab was removed and replaced in kind with concrete, and the fill material was removed and compacted when replaced. In addition a 1 1/2-inch diameter tiebolt was added to the arch.

**When Built:** 1928

**Why Built:** Unknown

**Who Built:** State Roads Commission

**Who Designed:** State Roads Commission

**Why Altered:** Safety concerns.

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

No, this bridge was not built as part of an organized bridge building campaign.

**Surveyor Analysis:**

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

A Events     Person

C Engineering/Architectural

This bridge was determined eligible by the Interagency Review Committee in February 1996.

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

The bridge was built on the Frederick to Petersville Road in 1928,

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

This bridge is not located in an area that is eligible for historic designation .

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

Yes, this bridge is a significant example of the State Roads Commission's efforts from 1910 until 1945 to eliminate dangerous geometric alignments. The development of standardized plans helped to facilitate this process.

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

Yes this bridge retains integrity of its character defining elements. Although some repairs were made to the wingwalls, the barrel, the spandrel walls, the parapets, and the abutments, all are original and have only moderate deterioration. The addition of the guardrails, removal of the concrete deck and the addition of the tiebolts do not compromise the integrity of this structure.

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

No this bridge should not be given further study.

**Bibliography:**

County inspection/bridge files \_\_\_\_\_ SHA inspection/bridge files  X

Other (list):

**Surveyor:**

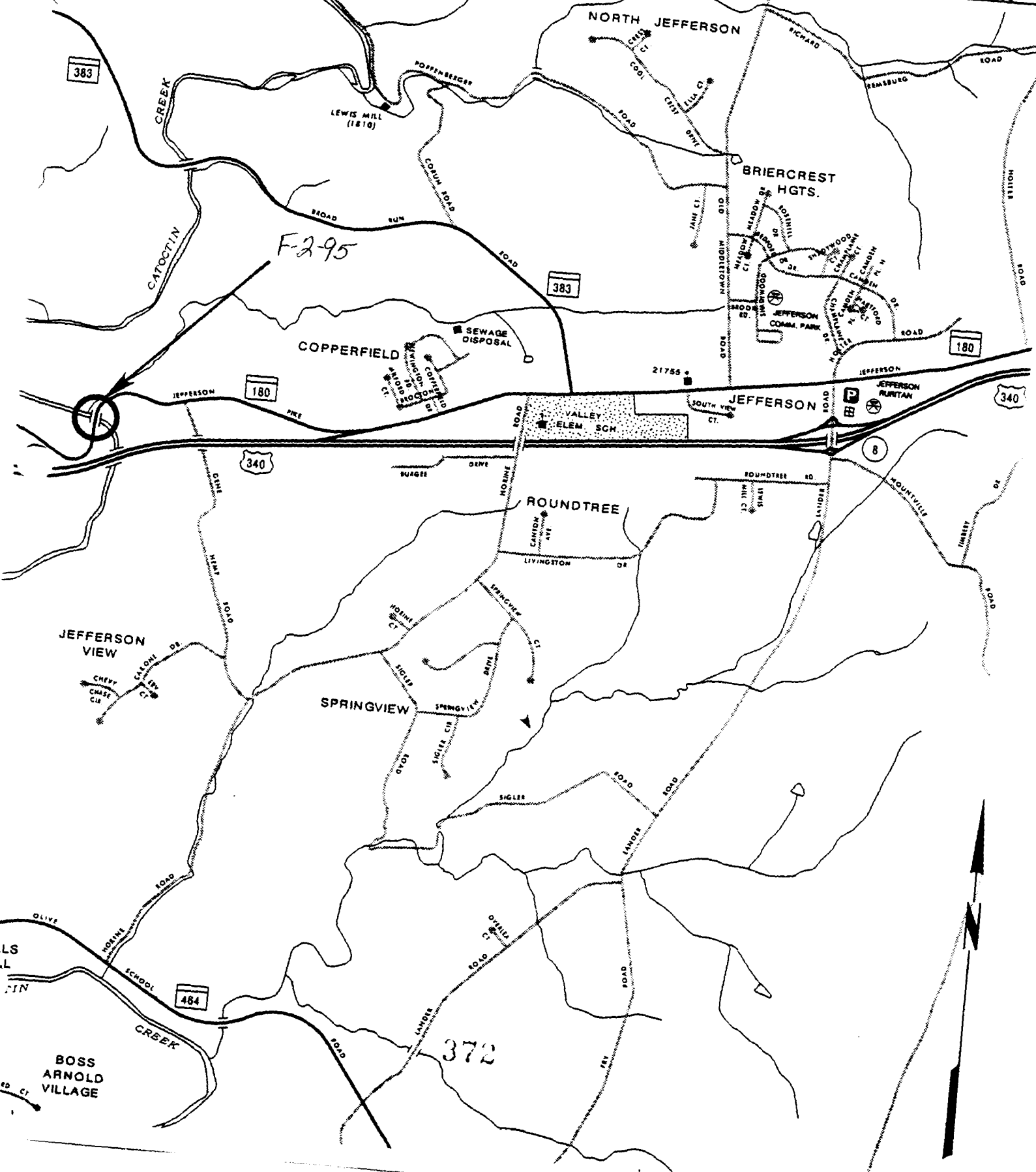
**Name:** Stacie Y. Webb **Date:** February 1996

**Organization:** State Highway Admin. **Telephone:** (410) 545-8559

**Address:** 707 N. Calvert Street, Baltimore, Maryland

Edited by P.A.C. Spero & Company, December 1997

Maryland Historic Highway Bridges  
Bridge Type CONCRETE ARCH  
MHT# F-2-95  
Map C-9 FREDERICK  
County FREDERICK  
Bridge # and name 10082; MD 180  
OVER CATOCTIN CREEK





Inventory # F-2-95

Name 10082-MD 180 OVER CATOCTIN CREEK

County/State FREDERICK COUNTY/MD

Name of Photographer FRANK JULIANO

Date 2/95

Location of Negative SHA

Description EAST APPROACH

Number 1 of 344





Inventory # F-2-95

Name 10082-MD 180 OVER CATOCTIN CREEK

County/State FREDERICK COUNTY/MD

Name of Photographer FRANK JULIANO

Date 2/95

Location of Negative SHA

Description ELEVATION LOOKING SOUTH

Number 2 of 34 4



Inventory # F-2-95

Name 1082-MD 180 OVER CATOCTIN CREEK

County/State FREDERICK COUNTY/MD

Name of Photographer FRANK JULIANO

Date 2/95

Location of Negative SHA

Description ELEVATION LOOKING NORTH

Number 3 of 34



Inventory # F-2-95

Name 10082-MD 180 OVER CATOCTIN CREEK

County/State FREDERICK COUNTY/MD

Name of Photographer FRANK JULIANO

Date 2/95

Location of Negative SHA

Description WEST APPROACH

Number 4 of 314