Maryland Historical Trust

Maryland Inventory of Historic Properties number:	729.
Maryland Inventory of Historic Properties number: HO- Name: South Young WS OUW	Little Patrixen Rever
The bridge referenced herein was inventoried by the Marylan Historic Bridge Inventory, and SHA provided the Trust with The Trust accepted the Historic Bridge Inventory on April 3, determination of eligibility.	nd State Highway Administration as part of the eligibility determinations in February 2001.
MARYLAND HISTORIC	
Eligibility Recommended	Eligibility Not RecommendedX
	Eligibility Not RecommendedX
Eligibility Recommended	Eligibility Not RecommendedX
Eligibility Recommended Criteria:ABCD Considerations:	Eligibility Not RecommendedX
Eligibility Recommended Criteria:ABCD Considerations:	Eligibility Not RecommendedX

Maryland Historical Trust SHA Bridge No. 13007 Name: Southbound US 1 over Little Patuxent River **Location:** Street/Road Name and Number: US 1 (Baltimore-Washington Boulevard) City/Town: Savage Vicinity X County: Howard 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_Retractile_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____ 486

He-729

Describe Setting:

Bridge 13007 carries southbound US 1 over Little Patuxent River in Howard County. US Route 1 runs north-south over the eastern flowing Little Patuxent River. US Route 1 is not heavily developed in this area. There is moderate residential development to the north of the bridge.

Describe Superstructure and Substructure:

Bridge 13007 is a single-span filled spandrel concrete arch bridge. The length of the bridge is 99 feet with a clear span of 98 feet. The rise is approximately 14 feet from the springline. The abutments are concrete and are approximately 40 feet wide and 14 feet high. The wingwalls are approximately 14 feet high and 8 feet wide. There is a clear roadway width of 40 feet, with an overall width of 43 feet 6 inches. The closed spandrel arch has a 1-inch angle strip and a 2-inch cove molding around the intrados. Bridge 13007 has modern guardrails. The rails are precast concrete topped with steel tubing. The railing is 97 feet long and 4 feet high.

The concrete arch has fine longitudinal cracking with heavy efflorescence and areas of delamination along the construction joints of the spandrel walls and first interior joints on both the upstream and downstream side of the bridge. The arch has light efflorescence throughout with a few small popouts. There is limited reinforcement bar exposure on the bridge, and a large area 24 inches in diameter has been patched along the eastern spandrel wall (downstream). The northwest and southwest wingwalls are spalling along the spandrel wall joints. The southwest wingwall also has an area approximately 3 inches in length along the spandrel wall joint at the bottom of the wall that has been patched. According to a 1997 inspection report, the bridge is in satisfactory condition with a sufficiency rating of 79.9.

Discuss Major Alterations:

In 1928 the bridge was widened. The existing 24-foot arch was not replaced completely. The existing circa 1920 arch was encased in 1928 with 2 extensions on either side of the concrete arch, each extension measuring 8 feet. The deck of the circa 1920 arch was removed to the fill and the parapets were removed. The engineers attached frames and poured two new sections to the arch adding an additional 16 feet to the bridge for a total length of 40 feet. In 1990, the 1928 open concrete parapets were removed and replaced by pre-cast concrete and steel railings.

When Built: circa 1920, 1928

Why Built: Elimination of a dangerous one lane bridge along Baltimore-Washington Boulevard. and widening of the Boulevard in 1928.

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?: Yes, this bridge was part of the road construction of US 1 between Baltimore and Washington.

Surveyor Analysis:

This bridge may have NR significance for association with:

_A Events _Person _C Engineering/Architectural

This bridge was determined not eligible by the Interagency Review Committee in March 1996.

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

Yes, this bridge was built as part of the construction of US 1 between Baltimore and Washington. Historically the route between Baltimore and Washington dates back 200 years. Originally the road was a dirt road built under the 1704 Act, which required 24-foot cart paths. The first section was constructed in 1741 connecting

Baltimore and Elkridge, and in 1749 the road was continued to Georgetown. Substandard maintenance continued throughout the eighteenth century. According to many period accounts, the State of Maryland did not maintain the road. Three successive turnpike companies attempted to construct a road during the turnpike movement of the late-eighteenth and early-nineteenth centuries. Companies were incorporated in 1796, 1812, and 1820 to build a road. Only the company of 1820 succeeded in constructing a turnpike on a 60-foot right-of-way between Baltimore and Washington. The company was liquidated in 1865 after the turnpike was condemned by the State.

In 1906 the Maryland Legislature, bowing to public pressure, decided to rebuild the highway as a state project and call it State Road No. 1. This road suffered during World War I under the weight of the increased numbers of army vehicles. Their increased load carrying capacity and sheer number tore the road apart. Between 1918 and 1919 the road was rebuilt as a concrete road with a 20-foot clearance. Sometime between 1920 and 1923 a dangerous one way structure was removed over the Little Patuxent River at Savage in Howard County and was replaced with a concrete arch with solid 3-foot high paneled parapets. The arch was approximately 140 feet in length and was 24 feet in width. The arch's rise was 14 feet from the springline and the clear span was 96 feet. The run to rise ratio was 16 percent.

In 1925 State Route 1 became part of US 1, the "main street" of the East Coast from Fort Kent, Maine to Key West, Florida. From 1928 to 1930 the roadway was doubled in width to forty feet and resurfaced. This meant extending all the bridges. The improvements were estimated at over \$500,000. The crossing at Savage over the Little Patuxent had to be widened.

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?

No, this bridge is not located in an area that is eligible for historic designation. Portions of US 1 could be nominated as a linear district.

Is the bridge a significant example of its type?

No, this bridge is not a significant example of its type. This bridge has been widened and the original parapets have been removed.

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

No, the bridge's original parapets have been replaced with modern concrete and metal rails, and the rest of the elements are in poor condition.

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

No, this bridge does not retain enough of its original elements to be a significant example of the work of the State Roads Commission.

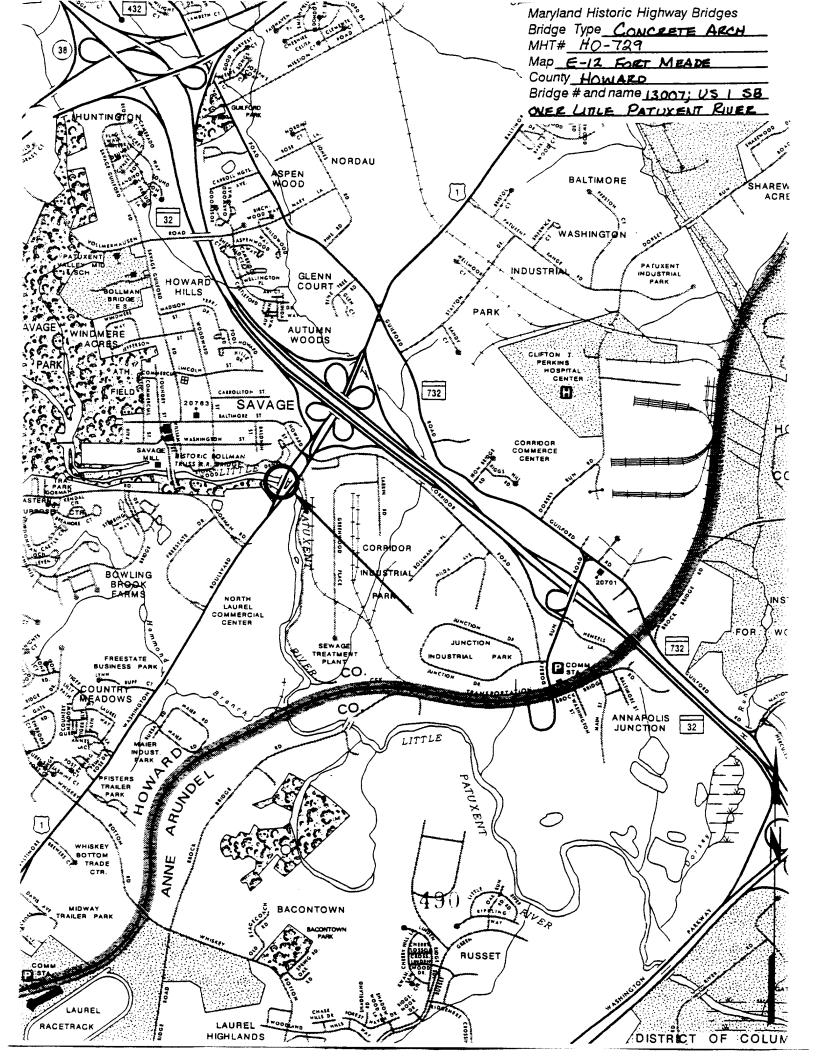
Should this bridge be given further study before significance analysis is made and why?

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: March 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





Inventory # <u>#6-729</u>
Name 13007 - US1 SB OVER LITTLE PATURENT RIVER County/State HOWARD / MD Name of Photographer DAVID DIEHL Date 2/95
Location of Negative SHA
Description South APPROACH LOCKING NORTH

THE RESPONDED AS TOP

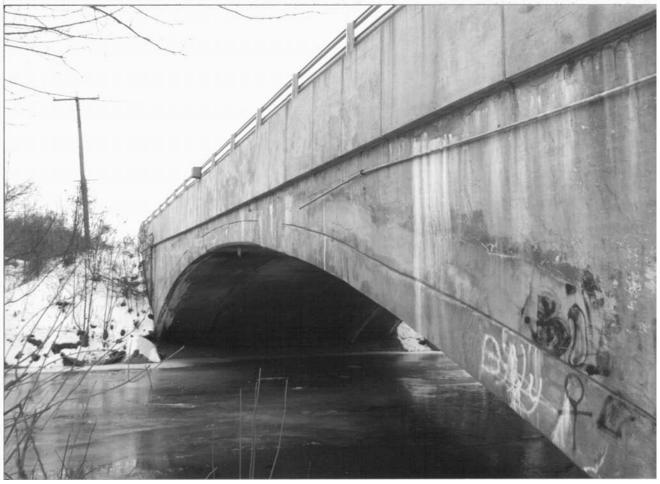
Number 13 of 25



PAVID DIEHL
HA
APPROACH LOOKING
40 1

Inventory # <u>#0-729</u>

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Inventory	#	ti	10-	72	9
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Name 13007 - US 1513 OVER LITTLE PATURENT RIVER
County/State Howard mo
Name of Photographer
Date 2 95
Location of Negative SHA
Description EAST ELEVATION LOOKING
SOUTH WEST

40*19 NI 20 N

Number 5 of 3



Name 3007 - US 13B OVER LITTLE PATUXENT RIVE County/State HOWARD / MD
Name of Photographer OAVID DIEHL
Date 2 95
Location of Negative SHA
Description WEST ELEVATION LOOKING
East
Number 40 of 250

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