

FINAL REPORT

**A SURVEY
OF NON-ARCHED HISTORIC
CONCRETE BRIDGES IN VIRGINIA
CONSTRUCTED PRIOR TO 1950**



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<p>Abstract</p> <p>Bridges are among the cultural resources that must be considered for historic significance under the Historic Preservation Act of 1966. The Virginia Transportation Research Council conducted pioneering studies of Virginia's early metal truss bridges and concrete and masonry arch bridges during the 1970s and 1980s, but no comprehensive evaluation of non-arched concrete bridges in Virginia was undertaken. The lack of information on non-arched concrete bridges made the case-by-case evaluation of these bridges in construction or maintenance projects a standard practice. Most of these studies were done by outside consultants, a time-consuming and expensive method which yielded only information about particular bridges, not comparative or contextual data on non-arched bridges as a whole.</p> <p>This study rectifies this lack of information and analysis of non-arched concrete bridges built before 1950 (a cut-off date chosen because, in general, a structure must be 50 years of age or older to be considered historically significant under National Register criteria). Given the average monetary cost of \$10,000 per consultants' study, and an average time frame of 90 to 120 days, it is estimated that this project has already saved the Virginia Department of Transportation more than \$500,000 and eliminated a typical three to four month delay for each project. Projected savings arising from this project are estimated at approximately \$2.5 million over the next ten years. As construction and maintenance projects are initiated on older non-arched concrete bridges, the benefits from this survey in costs and time saved will continue to accumulate.</p> <p>The project consisted of field survey, data tabulation, documentary research into historic non-arched concrete bridge types, and comparison of the resulting information on bridge chronology, technology, and usage during the first half of the 20th century. Criteria for the evaluation of historic significance were developed and applied, and a final review of the results was done with the Historic Structures Task group (an interdisciplinary historic transportation study committee) and the State Historic Preservation Officer. Of 1,420 non-arched concrete bridges built before 1950, fewer than a dozen were found individually eligible for the National Register of Historic Places. This project identified Virginia's few significant bridges of this type for appropriate management, and cleared over 1,400 bridges, the great majority of Virginia non-arched concrete bridges, for necessary maintenance and upgrade.</p>				

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Lastly, and sadly, this report marks one of the final projects of Nathaniel Mason Pawlett, longtime Faculty Research Historian for the Virginia Transportation Research Council. His death in the spring of 1995 deprived the Research Council, and VDOT, of our greatest resource for Virginia transportation history. He will be sincerely missed.

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ABSTRACT

Bridges are among the cultural resources that must be considered for historic significance under the Historic Preservation Act of 1966. The Virginia Transportation Research Council conducted pioneering studies of Virginia's early metal truss bridges and concrete and masonry arch bridges during the 1970s and 1980s, but no comprehensive evaluation of non-arched concrete bridges was undertaken. The lack of information on non-arched concrete bridges made the case-by-case evaluation of these bridges in construction or maintenance projects a standard practice. Most of these studies were done by outside consultants, a time-consuming and expensive method which yielded only information about particular bridges, not comparative or contextual data on non-arched bridges as a whole.

This study rectifies this lack of information and analysis of non-arched concrete bridges built before 1950 (a cut-off date chosen because, in general, a structure must be 50 years of age or older to be considered historically significant under National Register criteria). Given the average monetary cost of \$10,000 per consultants' study, and an average time frame of 90 to 120 days, it is estimated that this project has already saved the Virginia Department of Transportation more than \$500,000 and eliminated a typical three to four month delay for each project. Projected savings from this project are estimated at approximately \$2.5 million over the next ten years. As construction and maintenance projects are initiated on older non-arched concrete bridges, the benefits from this survey in costs and time saved will continue to accumulate.

The project consisted of field survey, data tabulation, documentary research into historic non-arched concrete bridge types, and comparison of the resulting information on bridge chronology, technology and usage during the first half of the 20th century. Criteria for the evaluation of historic significance were developed and applied, and a final review of the results was done with the Historic Structures Task Group (an interdisciplinary historic transportation study committee) and the State Historic Preservation Officer. Out of 1,420 non-arched concrete bridges built before 1950, fewer than a dozen were found individually eligible for the National Register of Historic Places. This project identified Virginia's few significant bridges of this type for appropriate management, and cleared over 1,400 bridges, the great majority of Virginia's non-arched concrete bridges, for necessary maintenance and upgrade.

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INTRODUCTION

Reliable bridges are essential to a safe transportation system. However, as our transportation system ages, many bridges are becoming obsolete. This obsolescence is a product of natural deterioration, of the materials used in construction, and of earlier design standards that no longer accommodate the speed, dimensions and volume of modern traffic.

In addition to safety, another factor must be considered in the case of older bridges. Bridges are among the types of cultural resources that must be considered for historic significance under the National Historic Preservation Act. Numerous bridges have been, and more will be, identified as historically significant structures. To upgrade an historic bridge to modern use and safety standards while leaving it in place and in service often presents a considerable challenge. Several options are open to the Virginia Department of Transportation (VDOT) for mitigating the impacts on these structures, including preservation in place, preservation by avoidance, removal with documentation, relocation, and replacement with a sympathetic structure.

Action which serves and protects the highway user, while complying with the spirit of the National Historic Preservation Act of 1966, requires advance planning. If it is known well in advance that a bridge is historically significant, plans for mitigation can be efficiently implemented. The obvious solution is to devise an "early warning" procedure by which all historically significant bridges can be identified and included in a bridge management system plan well before the planning and design phase.

While the National Register program (created under the National Historic Preservation Act) is recognized as the general basis for making decisions concerning historical significance, there is no precise formula for the factors relating to the evaluation of a bridge for historic significance. Even the factors to be considered are not always agreed upon. Opinions differ about which structures provide valuable information about our cultural heritage, in terms of aesthetics, uniqueness, innovations in engineering, and the evolution of the transportation

system. Basically, the question is which bridges are “historically significant” and which bridges are just “old.”

The problem, in this case, is to gather the data and to develop the criteria by which concrete bridges can be evaluated. Those that are identified as historically significant can then be incorporated into a historic bridge management system that preserves some and documents others, thus conscientiously managing our historic resources.

PURPOSE AND SCOPE

The purpose of this project was to identify and categorize historically significant non-arched concrete bridge structures within the VDOT transportation system. (Surveys of pre-1932 metal truss bridges and concrete/masonry arch bridges were completed in the 1970s and 1980s.)

To obtain full data on concrete non-arched bridge types in the state, a complete survey of bridges in each VDOT construction district was undertaken. The resulting data is contained in this report, which includes an introduction to the project and to the history of non-arched concrete bridges in Virginia, historic context, survey data (including the types and numbers of non-arched concrete bridges in Virginia), comparative analysis of bridges, criteria for evaluation, and determination of historical significance.

RESEARCH DESIGN

An inventory of all concrete bridges in Virginia constructed prior to 1950 was obtained from the VDOT bridge files, using “Supernatural” to query the HTRIS database. The inventory was broken down by construction district and, more minutely, by county within each construction district. Bridges were located on county maps, and each bridge was field-surveyed. All data deemed necessary to describe the bridge and evaluate its historic significance were collected and collated for presentation to an interdisciplinary study committee, which reviewed and evaluated information from this survey to determine the historically significant non-arched concrete bridges in Virginia.

METHODOLOGY

The research design included 10 tasks:

1. Organize an interdisciplinary group to help conduct the study.
2. Establish the historical period of bridge construction to be studied.
3. Select the geographic area to be studied.

4. Generate an inventory of all concrete bridges constructed within the period chosen.
5. Decide upon the data to be obtained on each site.
6. Organize the study teams and conduct the survey.
7. Organize and review field data.
8. Publish an Interim Report.
9. Determine Historical Significance.
10. Publish a Final Report.

These tasks are explained more fully below.

1. Organize an Interdisciplinary Group to Help Conduct the Study

The National Register program is the recognized basis for making decisions about historical significance. Generally, to be considered historically significant under National Register criteria a structure must be 50 years of age or older and fulfil one or more of the following criteria: have association with events or with the lives of persons significant in our past; embody the distinctive characteristics of a type, period, or method of construction; represent the work of a master; possess high artistic values; or yield, or be likely to yield, information important to the study of history or prehistory.

The researchers felt that any analysis of a structure based on these criteria would require an interdisciplinary group, including an engineer, an historian, an archaeologist, an architectural historian, and representatives of state and federal transportation agencies. A pre-existing committee with appropriate membership, the Historic Structures Task Group, was used for this purpose.

2. Establish the Historical Period of Bridge Construction to be Studied

A structure generally has to be at least 50 years old to be considered historically significant. Allowing time to complete the survey, tabulate the survey results and develop criteria by which to evaluate these structures, the researchers determined that structures constructed before 1950 would be considered within the purview of this study. This date eliminated any need for additional survey work through the end of the 20th century.

3. Select the Geographic Area to be Studied

For a comprehensive survey and evaluation of pre-1950 non-arched concrete bridges, all such bridges in all VDOT construction districts had to be studied. Historical significance was judged under National Register guidelines of national, state or local significance.

4. Generate an Inventory of All Pre-1950 Non-Arched Concrete Bridges Currently On-System

The Structure and Bridge Division of VDOT supplied a comprehensive inventory of bridges in each construction district throughout the state. Bridges on this inventory were located on county maps for use in the survey.

5. Decide Upon the Data to be Obtained on Each Site

The Historic Structures Task Group identified the necessary types of information that needed to be obtained from each site, and a standardized survey/inventory form for concrete bridges was designed and used in field work (Figure 1). The information includes:

- Geographic location
- Engineering profile, including designer (if known), builder (if known), date of construction, date of reconstruction, design and technological data, physical description, photographic documentation of bridge, etc.
- Historical context, including photographs of associated buildings and surroundings, documentation of historic relevance, etc.

6. Organize the Study Teams and Conduct the Survey

Several teams, each consisting of a researcher and a technician, conducted the survey. Before beginning the study, field trips were made to bridges previously identified as historically significant. These field trips were intended to train the teams more fully in survey techniques, recognition of bridge types, and developing an awareness of historical context.

7. Organize and Review Field Data

The information was organized and reviewed by members of the survey teams, then collated for documentation and organized for publication and for presentation to the Historic Structures Task Group. Review and comparison of the data being collected was frequent. For an initial ranking, each bridge was placed into one of three categories: *A* (has one or more unusual features and should be assessed further for potential historical significance; *B* (has no significant features and is of a common type); and *C* (has no significant features, is in poor condition, or is largely or totally rebuilt).

R-364

Photo Numbers:

SURVEY AND INVENTORY FORM - CONCRETE BRIDGES

Geographic Information

Structure #: _____
 State: Virginia
 DHR File #: _____
 Va. Dept. of Transportation District: _____; No. _____
 County: _____
 City/Town: _____
 Street/Road: _____
 River/Stream/Railroad (crossing): _____
 UTM/KGS Coordinates: _____

Historical Information

Formal designation: _____
 Local designation: _____
 Designer: _____
 Builder: _____
 Date: _____; basis for: _____
 Reconstruct date: _____; use: _____
 Original owner: _____; use: _____
 Present owner: _____; use: _____

Historical Significance

Contextual Integrity:
 general surroundings: _____
 immediate surroundings: _____
 associated resources: _____

Nature/Degree of any destructive threats: _____

Is bridge in listed or eligible historic district? _____

DHR Historic Theme(s) _____
 Reference materials and contemporary photos/illustration with their respective locations: _____

Recorder: _____
 Date: _____
 Affiliation: _____

Design Information

Compass orientation of axis: _____
 No. of spans: _____; length; overall: _____
 Span types:
 (1) _____; length _____
 (2) _____; length _____
 (3) _____; length _____
 (4) _____; length _____
 (5) _____; length _____
 (6) _____; length _____
 No. of lanes: _____; width: _____ c to c.
 Architectural or decorative features: _____

Technological Information

Substructure:
 Material: _____
 Foundations: _____
 Piers: _____
 Abutments: _____
 Wings: _____
 Seats: _____
 Superstructure: _____

Configuration: Slab _____ Beam _____
 Description of additions or alterations _____

Beam Type: _____
 Size: _____ Spacing _____
 Handrails _____

Reinforcing System _____

Sketch _____
 Side Elevation _____ End Elevation _____

Figure 1. Sample survey sheet.

8. Publications: Interim Draft Report

An Interim Draft Report, consisting of general descriptions of bridge types and tabulations of survey data, was circulated among VDOT Cultural Resource and Environmental personnel, VDOT District and Central Office bridge engineers, and members of the Historic Structures Task Group. Their comments were used in the editing of the final report.

9. Determine Historical Significance

Using the information distilled from the field data, the Historic Structures Task Group met and formulated the criteria for determining historic significance and for the ranking of bridges by local, state and national significance. Bridges which potentially possessed unusual, significant or unique attributes (the initial *A* list) were considered for eligibility for the National Register of Historic Places.

10. Publications: Final Report

This final report contains a summary and conclusions resulting from the analysis of the non-arched concrete bridge survey data. The body of the text contains:

- General transportation historic context
- General bridge historic context
- Discussion of general descriptions and types of non-arched concrete bridges, including common types vs. rare or unusual types of bridges
- Conclusions, including criteria for determining historic significance, the ranking of bridges by local, state and national significance, and bridges determined eligible for the National Register
- An appendix in spreadsheet format.

The appendix consists of an inventory of bridges, district-by-district and county-by-county, and includes the categories below. The appendix also includes statewide tabulations.

- County/City Code
- Bridge Number
- Route
- Type of Rails
- Construction Date
- Condition
- Span Type
- Span Number
- Length.

DEVELOPMENT OF CRITERIA AND IDENTIFICATION OF HISTORICAL SIGNIFICANCE OF BRIDGES

Identification of historical significance by the Historic Structures Task Group involved two stages:

1. *Establish criteria by which "historical significance" can be determined.*
2. *Select bridges with potential historical significance, in order of rank.*

There was initial debate as to whether the criteria should be developed before or after the survey and inventory. The existing criteria, used to evaluate metal truss bridges and masonry/concrete arch bridges, were developed in broad categories, basically adapted from criteria used to determine the historic significance of buildings. The metal truss criteria had been developed during the course of the metal truss bridge survey, principally by Daniel Grove Deibler, who did the field survey work and wrote a number of the reports regarding metal truss bridges in Virginia (Deibler, 1975; Newlon, 1978). The metal truss criteria had subsequently been applied to determine the historical significance of masonry and concrete arch bridges (Spero, 1984). However, the difference in materials and technology between metal truss and masonry/concrete arch bridges made the validity of applying these criteria questionable.

In the non-arched concrete bridge survey we were breaking new and uncharted ground, and the best course was to use the historic significance criteria for steel truss and masonry arch bridges in previous studies as instructive, but not definitive, templates for developing new criteria. The evaluation criteria for non-arched concrete bridges would be *similar* to the criteria used to evaluate the metal truss and masonry/concrete arch bridges, but some significant differences would not be apparent until many bridges had been surveyed and the resulting data had been compared. Accurate evaluation of historic significance also requires extensive background data and comparative information (for example, it is difficult to assign values for "uniqueness of structure" until we have some idea of the number of existing bridges of a given type).

Over 1,400 bridges were surveyed during this project. To facilitate the Task Group's ability to rank the significance of these bridges, the principal researchers divided the bridges into one of three general categories (*A*, *B*, or *C*) before submitting the material to the Task Group. An *A* category bridge has one or more somewhat unusual features, and should be assessed further for potential historical significance. A *B* category bridge has no notable features, is of a common type, and possesses no apparent significance. A *C* category bridge lacks notable features and is in poor condition, or is largely or totally rebuilt and has lost its historical integrity.

The development of the criteria to determine historic significance, and the final historic ranking of the bridges, was the last stage of the study. The Historic Structures Task Group

reviewed the information collected and published as a result of the survey. The Task Group then collectively developed criteria by which concrete bridges can be evaluated, and applied these for determining historic significance. Bridges ranked for historical significance can be incorporated into a historic bridge management plan. The criteria, summary and conclusions from the analysis of the survey data are contained in the conclusions of this report.

This study established procedures for meeting FHWA and Virginia requirements for the inventory of historically significant structures. The major benefit to VDOT is to avoid construction delays by the early identification of historic bridges. The benefit to the state and to the nation is that structures of historic importance will be identified, evaluated, and catalogued so questions of mitigation, replacement and preservation can be addressed systematically.

HISTORIC BACKGROUND: CONSTRUCTION DISTRICTS

Virginia's highway construction districts came into existence in the 1922 departmental organization. Earlier attempts to develop construction “divisions” within Virginia had failed primarily due to the shortages and disruptions in materials and manpower imposed by World War I. The establishment of the 1922 construction districts emerged from the needs of the State Highway System created in 1918.

The State Highway System came into being in 1918 to meet the requirements of the Federal Aid Road Act of 1916, in order to be able to get federal funds. The way the highway commission was constituted had been changed in 1919. Previously it had been a technically-oriented body, composed initially of the State Highway Commissioner and three civil engineers (the heads of the engineering departments of Virginia Military Institute, Virginia Polytechnic Institute, and the University of Virginia). In 1919 the commission shifted to a more political orientation. Its members now had to be private citizens, representatives from the major geographical areas: Piedmont, Southside, Valley, Tidewater, and Southwest Virginia. Two more years would see the creation of Henry Shirley's departmental structure, most of which remains in place today, along with its attendant construction districts.

Virginia currently has nine construction districts: Staunton, Culpeper, Northern Virginia (NOVA), Fredericksburg, Suffolk, Richmond, Lynchburg, Salem, and Bristol (Figure 2).

The *Staunton District* encompasses the Shenandoah Valley north of the James River, and Highland, Bath and Alleghany counties. In 1922, the district also contained Albemarle County (later made a part of Culpeper District). The Staunton Construction District currently covers the counties of Frederick, Clarke, Warren, Shenandoah, Page, Rockingham, Augusta, Rockbridge, Highland, Bath, and Alleghany.

The *Culpeper District* covers the north-central Piedmont. In 1922, the district contained Fluvanna, Louisa, Orange, Greene, Madison, Culpeper, Rappahannock, Fauquier, Prince William, Loudoun, Arlington and Fairfax counties. There have been two changes to Culpeper District since its inception. Albemarle County, originally in the Staunton District, was made a part of Culpeper District, and the intensive urbanization of northern Virginia in the last half of the 20th century, with attendant population growth, required the division of Culpeper District in the 1980s. Prince William, Loudoun, Arlington and Fairfax became the Northern Virginia (NOVA) District in 1984. The Culpeper construction district currently covers the counties of Albemarle, Fluvanna, Louisa, Orange, Greene, Madison, Culpeper, Rappahannock, and Fauquier.

As noted above, the *NOVA District* is a relatively late development, created from Culpeper District in 1984 in response to the tremendous growth in the northern Virginia area. It includes Loudoun, Prince William, Arlington and Fairfax counties.

The *Fredericksburg District* includes the region lying south of the Potomac River and north of the York and its branches: the counties of Stafford, King George, Westmoreland, Northumberland, Lancaster, Richmond, Gloucester, Mathews, Middlesex, Essex, King William, King and Queen and Spotsylvania.

The *Suffolk District* encompasses southeast Virginia and the Eastern Shore. At its formation in 1922, it contained the counties of James City, York, Warwick, Elizabeth City, Princess Anne, Norfolk, Nansemond, Accomack, Northampton, Isle of Wight, Southampton, Surry, Sussex, and Greensville. After World War II, the old counties of Warwick, Elizabeth City, Princess Anne, Norfolk, and Nansemond underwent intense urbanization and development as industrial and recreational centers. These counties eventually ceased to exist, transformed into the independent cities of Newport News, Hampton, Virginia Beach, Chesapeake, Norfolk, Portsmouth and Suffolk. This has produced two distinct regions within the district: the highly urban southeastern section and the primarily rural Eastern Shore and counties west of Suffolk. Suffolk District currently covers the above-named cities, as well as the counties of Accomack, Northampton, James City, York, Isle of Wight, Southampton, Surry, Sussex, and Greensville.

The *Richmond District* contains the counties of Goochland, Hanover, New Kent, Charles City, Henrico, Powhatan, Chesterfield, Amelia, Nottoway, Dinwiddie and Prince George.

The *Lynchburg District* includes the south-central portion of Virginia: the counties of Nelson, Buckingham, Cumberland, Appomattox, Prince Edward, Campbell, Charlotte, Pittsylvania and Halifax.

The *Salem District* contains Botetourt, Bedford, Craig, Roanoke, Montgomery, Giles, Pulaski, Floyd, Franklin, Henry, Patrick and Carroll counties.

The *Bristol District* encompasses southwestern Virginia. The district contains Grayson, Wythe, Bland, Tazewell, Smyth, Washington, Russell, Buchanan, Dickenson, Wise, Scott, and Lee counties.

NON-ARCHED CONCRETE BRIDGES IN VIRGINIA: HISTORICAL OVERVIEW AND CONTEXT

Bridge technology and construction was minimal in most regions of 17th and 18th century Virginia. Fords served for crossing most streams and rivers, while wet or marshy places were frequently traversed by causeways (raised roads or pathways on a base of stones, logs, timbers and earth, capped with clay for weatherproofing). Broad rivers were typically crossed by ferries. In the few areas where these methods would not suffice, simple timber bridges were commonly used. These timber bridges took the form of basic beam bridges and the most rudimentary and traditional wooden trusses (e.g. king post and queen post). Stone bridges were expensive and time-consuming to build; only a handful were erected in Virginia during this period.

The 19th century saw the advent of a number of improved timber truss bridges, including patented varieties such as the Town lattice truss and the Long panel truss, as well as the combination wood-and-iron Howe truss patented in 1840. A few early 19th century stone lintel or arched masonry bridges were constructed, primarily as turnpike bridges, but stone construction generally remained prohibitive in terms of cost and time (Newlon, 1973).

Metal truss bridges were first developed in the 1840s and 1850s, although they did not appear in many areas of Virginia until the 1870s. Since most varieties of wooden bridges needed constant maintenance, and still deteriorated quickly, metal truss bridges were seen as a more long-lasting solution. However, metal truss bridges, besides their greater initial construction costs, still required constant maintenance, particularly painting, and the cost of upkeep was a constant drain on county budgets. It was common practice among county governments to delay or ignore what should have been routine maintenance on metal bridges in an effort to stretch dollars, with resultant deterioration and damage to the bridges.

Clearly, a more maintenance-free and long-lived alternative to wooden and metal truss bridges was desirable. By the early 20th century, reinforced concrete bridges were beginning to fill this need.

Although concrete was used as a building material by the Romans over two millennia ago, its first modern use in bridge construction dates to the 19th century. It was first used in non-reinforced adaptations of traditional masonry arch bridges, such as the 1871 Prospect Park Bridge in Brooklyn, New York. However, the lack of reinforcement required the use of massive structural elements, and did not allow such bridges to span long distances. The development of

reinforced concrete in the late 19th century made it possible to construct versatile concrete bridges.

Reinforced concrete arch bridges predated non-arched bridges in the United States by approximately a decade, the first known reinforced concrete bridge in the country being the 1889 arch in Golden Gate Park in San Francisco, California. The popularity of “steel-concrete” or “concrete-steel” (reinforced concrete) grew through the 1890s, and by 1904, pioneering concrete bridge designer Fritz von Emperger could note that “Ten years ago the number of concrete-steel bridges was so small that there would have been no difficulty in giving a complete list, whereas now it would be quite impossible to give such a list. . .” The selling points of reinforced concrete included several real and perceived advantages compared to metal truss bridges. Concrete bridges offered durability and little or no maintenance, and less reliance on “big steel” corporations (something which had special appeal to many rural/populist interests). In addition to permanence and cost-effectiveness, concrete bridges were also touted as more aesthetically pleasing and less visually intrusive in rural areas than metal truss bridges (Snyder and Mikesell, 1994; p. 40).

The earliest known Virginia bridges made of reinforced concrete date from the first years of the 20th century. In the course of the non-arched concrete bridge survey, a well-preserved set of concrete abutments, dated 1903, was identified. These are still in service, supporting a steel beam railroad bridge in Stafford County. Just south of this structure is the oldest known surviving in-service concrete bridge in the state, an arched railway overpass built in 1904 (Spero, 1984; pp. 32, 34). The earliest documented non-arched concrete bridge in Virginia was the now-demolished girder-and-floorbeam 5th Street bridge in Lynchburg, built in 1906. Virginia’s oldest surviving documented non-arched concrete bridge is a 1908 slab bridge, still in service, located on Bedford Avenue in Lynchburg (Structure # 1849).

In Virginia, and throughout the United States, reinforced concrete technology grew steadily through the first three decades of the 20th century and become the dominant bridge type. Reinforced concrete bridges were a logical choice. They were described in early publications as “permanent bridges” which would require little or no maintenance, in contrast to the continual care needed by wooden and metal truss bridges. The 1916 Annual Report of the Virginia State Highway Commission shows photographs of single reinforced concrete spans with solid parapets, labeled “permanent bridges” (*Annual Report*, 1916; pp. 77, 81).

William M. Thornton (Dean of Engineering at the University of Virginia, and a member of the state Highway Commission) and C. D. Snead, (state bridge engineer) championed the virtues of concrete bridges in the August, 1915 *Bulletin of the Virginia State Highway Commission*, wholly devoted to, and indeed subtitled, “Highway Bridges and Culverts.” Thornton and Snead recommended concrete bridges for many applications. They cited beam bridges (of timber, steel or concrete) as the logical application for spans of eight to forty feet, but in a comparison of material durability they stated that timber lasts ten years or less, steel lasts

twenty-five years, and concrete lasts at least forty years (Thornton and Snead, 1915, pp. 9-10). They stated that:

. . . timber beam bridges must be discarded except for locations where lumber is abnormally cheap and traffic abnormally light. Steel beam bridges of short span with their perishable timber floors are recommended only where the erection gangs are too ignorant to handle reinforced concrete in the right way. Reinforced concrete must be accepted as the economic solution of the problem of the short span highway bridge up to spans of twenty feet. For strength, for durability, for true economy these bridges excel all others . . .

For spans from twenty to forty feet, the steel beam regains its old pre-eminence and is cheaper than the reinforced concrete slab at present normal prices. Bridges consisting of two doubly reinforced concrete girders carrying a reinforced concrete slab floor may be built as cheaply as steel beam bridges for these spans. The fact that they require more highly skilled labour and direction for their successful erection makes them of doubtful expediency in ordinary highway work. Their low maintenance cost gives them the preference for locations where first-class reinforced concrete can be counted on.

During the first quarter of this century, the common reinforced concrete bridges used in Virginia were either arch or girder construction, the latter including slab, deck-girder, T-beam, through-girder, and girder-and-floorbeam structural types. The history, inventory and evaluation of arched concrete bridges in Virginia have already been covered in a previous report (Spero, 1984). This study deals with the various non-arched bridge types in Virginia, including the several early types of girder construction mentioned above, the later versions of T-beams and slabs (which remained popular through much of the 20th century), and some additional bridge types, like rigid-frame and continuous, which were first designed during the 1910s and were further developed during the second quarter of the century.

In the first two decades of this century, bridge engineering was still in a somewhat experimental stage. The early slab bridges and girder bridges were often greatly over-engineered, with massive substructures and parapets. Better ways to calculate the amount of reinforcing bar and concrete needed to carry loads safely were being developed in the 1910s and early 1920s. These advances led to the development of standard plans during the same period. By the end of the 1910s, standard plans had been developed for most of the common non-arched concrete bridge types: slab, deck-girder, and through-girder (including girder-and-floorbeam).

Most of these early bridges had the solid parapet railings typical of the era. In a simple slab, the parapet had no structural application, and might be dispensed with altogether. In deck-girder and through-girder construction, the parapet *was* structural. A primary difference between the two girder designs was that deck-girders could be widened, while through-girders could not. In a deck-girder, concrete beams supported an independent deck slab; the parapets acted as additional beams but a parapet could be removed and the road widened without disturbing the main supporting beams or endangering the bridge structure. In a through-girder, each side of a reinforced concrete slab was supported on integral reinforced concrete beams which extended

into a parapet. The resulting structure was massive and extremely strong, but narrow (roadways were usually 12 or 16 feet wide) and impossible to widen, since removing a parapet would also remove the girder supporting that entire side of the bridge.

As Virginia moved into ever-greater transportation design standardization in the 1920s and 1930s, bridges took on a lighter, more streamlined outline. Through-girder bridges, whose technology required massive construction and narrow width, and which could not be widened, were falling out of favor by the mid-1920s as two-lane roads and bridges, built with slab or T-beam construction, became the norm. Solid parapets, unneeded for structural strength on non-girder construction, became less massive and began to be rejected in favor of the new concrete “cork rail” system with separate posts and rails. Similarly, deck-girders were replaced by the new standardized T-beams with lighter, non-structural railings, which took considerably less concrete to build. In Virginia, the first standard-plan T-beams with cork rails date from 1924. By the 1930s, concrete slabs and T-beams had become the predominant bridge types, with all bridge elements, including railings, abutments and piers, following standard Virginia Department of Highways plan elements. Other bridge types, such as rigid frames, were not used widely in Virginia during the first half of this century.

NOTES ON CONSTRUCTION METHODOLOGY

The new use of reinforced concrete for bridges also required new construction practices. The “General Note” seen on bridge plans had its roots in the earliest standard plans furnished by the Virginia State Highway Commission. From the beginning, these plans included requirements for construction methods and materials, to insure that at least minimum standards would be followed. Specifications for concrete, steel, masonry and reinforcing bar were given. Capacity was also specified. Early bridges (in the 1900s and early 1910s) had to be designed to support a 12 ton road roller; by the late 1910s this requirement had been raised to a 15 ton truck, and by the 1930s it was two 15 ton trucks passing on the bridge.

The early specifications included environmental and navigational protections as well. In the construction of early reinforced concrete bridges, extensive wooden forms were made from heavy timbers and boards, while massive falsework was needed to support the wet concrete until it set up and could support its own dead load. (There are reminders of this technology in the impressions of the wood grain--including knots--from the shuttering boards, which still can be seen on some early bridges.) Careless disposal of the forms and falsework material constituted an environmental hazard, as it could significantly obstruct the waterway channel and produce waterborne debris.

As an example, the Virginia State Highway Commission specifications for a proposed bridge in 1916 noted the following:

- Capacity: 12 Ton Roller.
- Specifications for Concrete: Wilbur J. Watson's 1910.
- Specifications for Steel: Va. State Highway Commission's 1909.
- All Masonry in Substructure is to be of Concrete mixed in the proportion 1 part No. 1 Portland Cement, 3 parts sharp clean sand and 6 parts broken stone, 1/4" to 2-1/2."
- All Masonry in Superstructure is to be of Concrete mixed in the proportion 1 part No. 1 Portland Cement, 2 parts sharp clean sand and 4 parts broken stone, 1/4" to 1-1/2."
- All reinforcement is to be of Deformed Structural Steel Bars, the grade of which is to conform to the grade of Structural Steel specified in the specifications of the Va. State Highway Commission's 1909.
- For further details and information not herewith given see drawing entitled "Standard 35'0" Reinforced Concrete Span" plan L-26.
- Contractor or Contractors are to leave channel clear and free from all forms, falsework, debris or obstructions of any description.

Wilbur J. Watson, mentioned in the specifications, was a well-known consulting engineer of the period. This particular bridge was Warren County Structure # 6017, a girder-and floorbeam structure completed in 1918 over Gooney Creek (construction drawings are filed in the Staunton District Office). This bridge is currently scheduled for replacement.

SPAN TYPES

The reports in this series utilize the standard three-digit structure span codes used for federal item 43 of the National Bridge Inventory (NBI). The first numeral indicates the material of the main span:

- 1 = Concrete
- 2 = Concrete continuous

The second and third numerals indicate the construction of the main span:

- 01 = Slab
- 02 = Stringer, multibeam or girder (deck-girder)
- 03 = Girder and floorbeam
- 04 = T-beam
- 05 = Box beam or girder--multiple
- 06 = Box beam or girder--single or spread
- 07 = Rigid frame

The following non-arched concrete span types are documented to have been built in Virginia prior to 1950:

- 101 = Concrete slab
- 102 = Concrete stringer, multibeam or girder
- 103 = Concrete girder and floorbeam
- 104 = Concrete T-beam
- 107 = Concrete rigid frame

- 201 = Concrete continuous slab
- 202 = Concrete continuous beam
- 203 = Concrete continuous girder-and-floorbeam
- 204 = Concrete continuous T-beam
- 207 = Concrete continuous rigid frame

Slab (101). The simplest of these bridge types, a slab span consists of a reinforced concrete slab, supported at either end of its span upon end walls (abutments) or piers. Slab spans were in use in Virginia from the first decade of the 20th century onwards. Recommended for spans up to 25 feet, they were easily widened, afforded the most headroom, and were simple to form (Figure 3; see also Figures 11, 12, 16).

Deck-Girder (102). The deck-girder (also known as a stringer, girder or multibeam) consists of a reinforced concrete slab in conjunction with two or more girders which form a series of T-beams side by side. They were recommended for spans from 20 to 60 feet. In the true deck-girder, rectangular beams support an independent slab. The stirrups of the outside girders reinforce the railings: early examples of these bridges often had solid parapets which acted as additional beams. Deck-girders could easily be widened. The railings or parapets could be removed and the width of the roadway extended without disturbing the main supporting beams. This type of construction was used in Virginia from ca. 1910 to the mid-1920s. These bridges require less material than through-girders (below), but require more complex forming and supervision, and more headroom (Figures 4, 5).



Figure 3. Slab bridge: Structure # 1049, Alleghany County (1922; widened and cork rails added in 1932).



Figure 4. Deck-girder bridge: Structure # 6074, Bedford County (ca. 1920), with solid parapet rails.

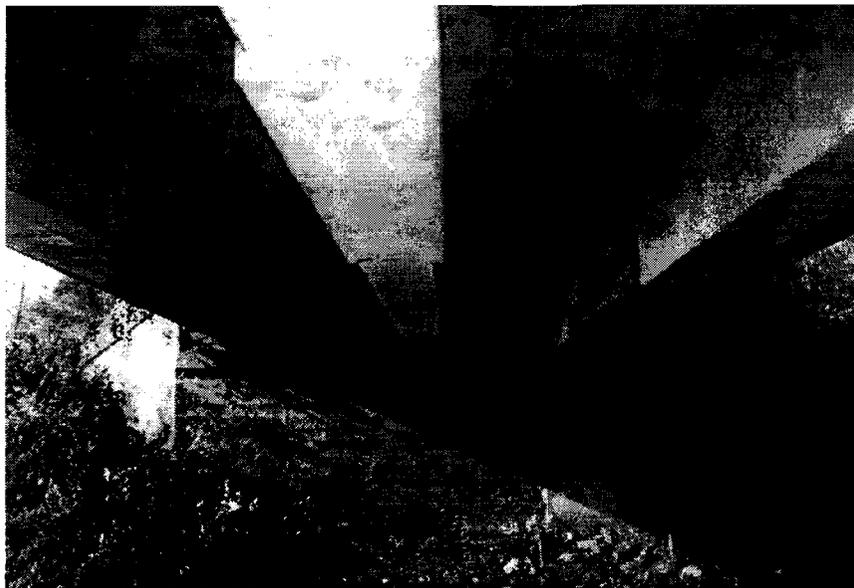


Figure 5. Deck-girder bridge: Structure # 6074, Bedford County (ca. 1920), showing details of girders on the underside of the bridge; one girder shows a later repair.

Through-Girder (103). In a through-girder bridge, each side of a reinforced concrete slab is supported on reinforced concrete beams (girders) which are incorporated into the slab and extend to form a solid parapet railing. The girders span the length of the bridge (or the individual span) and rest upon the abutments or piers. Through-girder bridges use both stirrups and curb reinforcement. This system was recommended for use in spans from 20 to 60 feet, with widths of 20 feet or less (12 or 16 foot widths being the most common). The integral girder/parapet arrangement gave these bridges considerable strength. It also required a massive structure with a narrow roadway (to prevent excessive dead load), and made these bridges impossible to widen. Removing a parapet would remove the support for an entire side of the bridge, causing the bridge to deform and probably collapse.

Through-girder construction appears in standard bridge engineering texts during the first three decades of the 20th century. There were two different types of construction for through-girders: (a) with the girders extending below the bottom of the parapet, a form commonly used for highway bridges, and (b) with a thicker slab incorporating the girders, and thus allowing a smooth underside, a type particularly recommended for railroad bridges. Although it used less concrete, the visible-girder variety was the more expensive of the two, owing to the complicated forming needed for the girders on the underside. The bridges with the smooth undersides, although more massive, were less complicated to build since flat forms could be used; the greater depth of the slab, along with thicker parapets, also may have given increased strength to the bridge. Merely on the basis of a surface examination, the latter through-girders can be difficult or impossible to distinguish from slab bridges with thick solid parapets. No basic through-girders, either with visible girders or smooth undersides, have been documented to survive in-service in Virginia; however, an abandoned bridge of this type still stands upstream from Rt. 1 crossing Accakeek Creek in Stafford County. The extremely thick parapet on Structure #6040 in Hanover County also suggests that this bridge may utilize this technology, but precise documentation is lacking. Extant in-service Virginia bridges constructed using this technology utilize a related, slightly more complex through-girder system known as girder-and-floorbeam (see below).

Girder-and-Floorbeam (103). In this system, each side of a reinforced concrete slab is supported on reinforced concrete girders which extend into solid parapets (e.g. basic through-girder construction). In addition, however, reinforced concrete floor beams are set perpendicular to, and incorporated into, the girders. Like other through-girders, girder-and-floorbeam systems were used for spans from 20 to 60 feet, with a maximum width of 20 feet. As with all kinds of through-girders, the interconnected floorbeam/girder/parapet made these spans impossible to widen. Girder-and-floorbeam spans were constructed in Virginia from ca. 1906 to the mid-1920s (Figures 6, 7).



Figure 6. Girder-and-floorbeam bridge: Structure # 6016, Roanoke County (1921), showing (structural) solid parapet rails.



Figure 7. Girder-and-floorbeam bridge: Structure # 6016, Roanoke County (1921), showing details of floorbeams and girders on the underside of the bridge.

T-Beam (104). In the T-beam, as in the deck-girder, rectangular beams support the deck. However, in the T-Beam, the slab and beams are integral, with the slab acting as the main compressive component. Like deck-girders, T-beams are easy to widen; however, deck replacement is impossible. Exterior beams were usually lighter than interior beams due to wheel distribution.

T-beams are an extremely common bridge type. Concrete T-beam spans were constructed in Virginia from the 1910s onward. The first standard plan T-beam bridges in Virginia date from 1924, and T-beams were a dominant concrete bridge design from the late 1920s through the late 1960s (Figure 8).

Rigid-Frame (107). The first rigid frame bridge was designed in 1919-1922. Further development occurred during the 1920s and 1930s (Hool and Kinne, 1944, p. 471). In other contemporary bridge systems, the deck of each span was supported by its abutments. In contrast, in a concrete rigid frame bridge the concrete would be poured monolithically, with the result that the walls support the deck slabs as continuous bents. This combination of superstructure and abutments produced a bridge of great stability. Rigid-frame bridges can be either arched or non-arched. Pre-1950 non-arched rigid frame bridges are relatively rare in Virginia (Figure 9).



Figure 8. T-beam bridge: Structure # 1010, Highland County (1931) with cork rails.

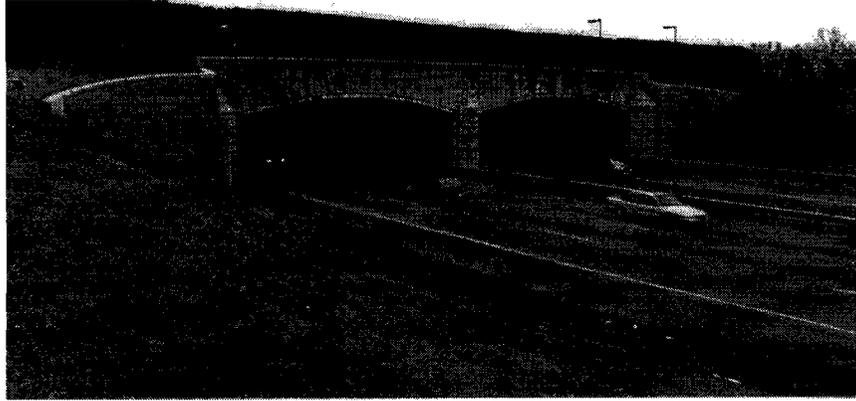


Figure 9. Rigid frame bridge: Structure # 5020, Arlington County (1945).

Rigid frame bridges were usually limited to spans under 100 feet, although one continuous rigid frame bridge in Virginia exceeds this length (the Mary Street bridge, Structure # 1804 in the city of Bristol, built in 1918, with five spans totalling 232 feet long). Although simple rigid frames were a popular expressway bridge for overpasses in the 1940s through the mid-1950s, their large bents restricted the oncoming motorists' view beyond the bridge, limited the potential for widening the roadway under the bridge, and were hazardous to high-speed traffic. By the late 1950s, new advances in highway construction such as prestressed, precast concrete beams and new pier designs had superseded the older rigid frame design (Dorton, 1991, pp.10-11).

Continuous (201, 202, 203, 204, 207). As the name implies, continuous concrete bridges consist of continuous-poured superstructure elements (usually slabs or T-beams), instead of separate spans. These continuous superstructures are supported at regular intervals by concrete frame or concrete pile piers. Continuous bridges should be considered variations on their basic construction systems (e.g. slab or T-beam) rather than separate bridge types. The form was first developed in the 1910s. Aside from continuous slabs (201) and T-beams (204), one continuous beam (202), one continuous girder (203), and three continuous rigid frames (207) (Figure 10) were encountered during the course of the survey. The 202 and 203 bridges (Richmond City Structures # 8067 and 8066), and one of the 207 bridges (Henrico County Structure # 1001; Figure 10) were possibly experimental. All date from the last half of the 1930s and all are within Richmond District, being located in or near the city of Richmond. In general, pre-1950 continuous concrete spans are uncommon in Virginia

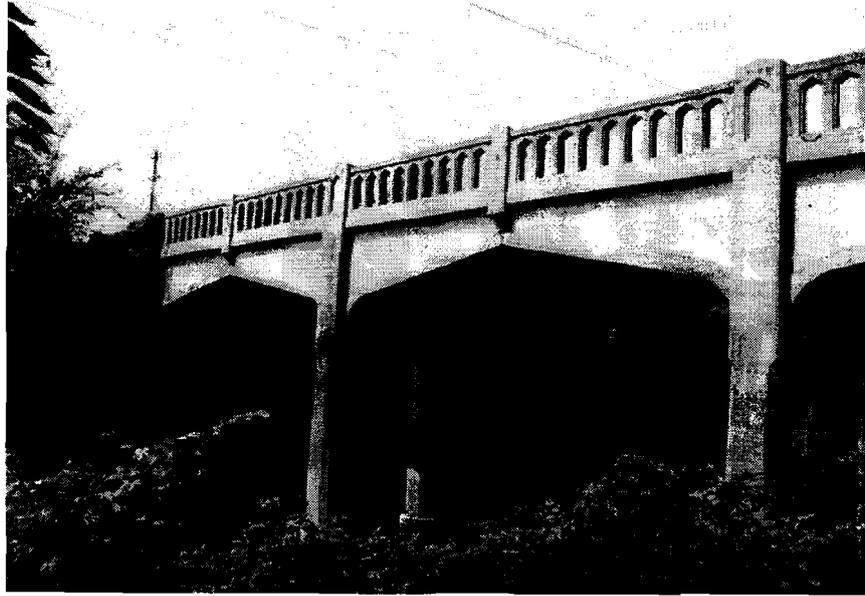


Figure 10. Continuous rigid frame bridge: Structure # 1001, Henrico County (1939), with vertical rails.

RAILINGS

Although ornate classical-style pre-cast balusters were in use from the early 20th century onwards, they were generally confined to decorative urban or park bridges. John J. Earley used such precast classical balusters in a number of his projects in the Washington, D. C., area in the 1910s. Contemporary catalogs for Daniel B. Luten's Luten Bridge Company also show similar balusters on what he termed "park bridges," as opposed to more utilitarian highway bridges with solid parapets.

Pipe railings, curbs and solid concrete parapets were the dominant railings used for highway bridges during the 1900s and 1910s, and into the 1920s. Pipe railings were commonly of 2-inch pipe. Curbs were generally between 6 and 12 inches high. Solid concrete parapets varied greatly in height and thickness. Their dimensions were largely a function of whether the parapets were structural or non-structural.

In the cases of through-girder/girder-and-floorbeam construction, of course, the parapets were fully structural, not just safety features. Surviving standard plans from the 1910s show two varieties of parapets on through-girder bridges. Most common was a heavy solid parapet between 3 and 4 feet high and between 18 and 24 inches thick (thickness and height of the parapets increased with span length). Alternately, short through-girder bridges (less than 30 feet

long) might have low solid parapets (approximately 2 feet high and 15 to 18 inches thick) used in concert with pipe railings, or most of the girders might be below the level of the deck, with only a short length, e.g. a curb, visible above the level of the roadway.

The following are common rail types (with terminology and periods of use) in pre-1950 concrete bridges in Virginia.

Solid. Solid concrete parapets are usually between 3 and 4 feet high. These parapets can be structural (as in most deck-girders and all through-girder/girder-and-floorbeam systems) or non-structural (as in slab construction), and may be plain or ornamented. Ornamentation is most typically with incised or cast recessed panels. Solid parapets were in general use in Virginia from the early 1900s until the mid-to-late 1920s, and a few slab bridges with (non-structural) parapets continued to be built on rural roads well into the 1930s (Figure 11; see also Figures 4, 5, 6, 7, 16).

From the 1930s on, solid parapet railings have seen occasional use for special, primarily decorative, purposes. In the last three decades, of course, the Jersey barrier has become the typical rail for many applications, and in general form is reminiscent of the old solid parapets.



Figure 11. Solid parapet rail (on a slab bridge): Structure # 6106, Augusta County (1920); the cast panels on the sides are a typical decoration on solid parapet bridges of the era.

Low Solid. Low solid parapets range from 1 to 3 feet high, with approximately 2 feet being average. These sometimes supported pipe rails (see below). A low solid parapet and pipe railing are shown on the 1912 Virginia State Highway Commission standard plan for a girder-and-floorbeam bridge. Low solid parapets were used in Virginia from the early 1900s into the early 1930s.

Curb. A low concrete curb less than 1 foot high was used on many early Virginia bridges, particularly in rural areas between the early 1900s and ca. 1940. Some curbs supported pipe railings, but handrails were not always present (Figure 12).



Figure 12. Lowwater (slab) bridge with a typical curb: Structure # 6019, Warren County (1925).

Cork. The so-called “Cork Rail,” a railing with separately-cast uprights, or posts, and two cross members, was Virginia's most widely-used railing during the second quarter of the 20th century. The common name derives from the early use of cork as a filler where the cross rails (which were cast in place) enter the uprights. Cork rails, developed in the 1910s, were already appearing in U. S. Office of Public Roads standards by 1920, when Milo Ketchum illustrated one such plan in the second edition of *The Design of Highway Bridges of Steel, Timber and Concrete* (Ketchum, 1920; p. 366). Cork rails first appeared on standard plans in Virginia in 1922 as railings for slab bridges. They appeared as railings for the new standard plan T-beams in 1924. By the late 1920s, the cork rail had become the standard bridge rail in Virginia, and continued in that position into the 1940s (see Figures 3, 8).

Two apparent variants on the cork rail were encountered in the course of the survey. Fauquier County contains two early rails with general similarity to cork rails, in Structure # 6232, built in 1919, and Structure # 6036, built in 1928. These rails have paneled posts. The lower crossrail is attached to the curb. Lastly, Luten-type cork rails (cork rails with unusually wide endposts) survive on a non-arched concrete bridge in Pulaski County (Structure # 6080, built in 1932). Many similar rails survive on Luten arched concrete bridges in Southwest Virginia, as well as elsewhere in the U.S. The rails were used by the Luten Bridge Company in the last half of the 1920s and the early 1930s.

Vertical. This somewhat decorative railing type has several varieties: individual square, rectangular or shaped upright members (e.g. square or shaped balusters, spindles, etc.), or unitary-pour uprights (e.g. a series of round-headed arches, pointed “Gothic” arches, etc.), supporting a handrail. Several varieties of vertical railings were used in Virginia from the late 1910s until the 1960s (Figures 13, 14; see also Figure 10).

Pipe. As the name indicates, this railing was made of pipe; 2 inch pipe was customary in Virginia, although smaller and larger diameters were also used. Pipe rails were in use from the early 1900s until ca. 1945.



Figure 13. Vertical railing (one of several styles): Structure # 1002, Shenandoah County (1932).



Figure 14. Vertical railing (one of several styles): Structure # 1017, Southampton County (1946).

Single. This is a unitary railing with widely-spaced uprights and a single cross member: the uprights may be either straight or have slightly inclined backs. These were standard-plan railings for slab and T-beam bridges in Virginia from ca. 1940 to the 1960s. The inclined-back upright was used primarily during the 1940s, the straight-back upright during the 1950s and 1960s. This rail type was also used for bridge widenings and rebuildings. *Note:* “Single” is not a period term, but is a descriptive category used for identification in this survey (Figure 15).



Figure 15. “Single” railing: Structure # 1804, Hampton (1949).

Lowwater. “Lowwater” or “submarine” type bridges are slab spans which were built with no curbs or perforated very low curbs (approximately 6 inches) to allow flooded streams to flow over and drain from the bridge. Lowwater bridges were used ca. 1920 to ca. 1935 (see Figure 12).

OTHER STRUCTURAL ELEMENTS

Curbs and Trestles

Curbs are *usually* present in slabs, deck girders and T-beams. Curbs are *frequently* absent in through-girder construction. However, the presence or absence of curbs should not be considered an infallible diagnostic clue to separating slabs, deck girders and T-beams from through-girders.

All non-arched concrete bridges could be constructed as single-span or multiple span. Single spans were supported by abutments on each end. Multiple spans (or trestles) were supported by abutments on the ends, and at intermediate points by bents, or piers.

ANALYSIS AND SUMMARY

This project identified and categorized historically significant non-arched concrete bridge structures within the VDOT transportation system. VDOT records list 1,420 pre-1950 non-arched concrete bridges still in-service. To obtain full data on concrete non-arched bridge types in the state, a complete survey of such bridges built prior to 1950 was undertaken in each VDOT construction district. This report includes historic context, descriptions and comparative analysis of non-arched concrete bridges, and survey data, including tabulations of the types and numbers of non-arched concrete bridges in Virginia.

The state totals for the various span types were:

- 442 slabs (101), 16 continuous slabs (201) for a total of 458;
- 29 deck girders (102), 1 continuous beam (202) for a total of 30;
- 12 girder-and-floorbeams (103), 1 continuous girder (203), for a total of 13;
- 427 T-beams (104), 9 continuous T-beams (204), for a total of 436;
- 9 rigid frames (107), 3 continuous rigid frames (207), for a total of 12;
- 471 rebuilt bridges (bridges which have been primarily or completely reconstructed).

Ignoring the rebuilt bridges, the most numerous span types of non-arched pre-1950 bridges in Virginia were slabs, followed closely by T-beams, while the other span types combined make up a small fraction of the total. Chronologically, the numbers of extant in-service bridges ran as follows:

- 1900-1909: 2 bridges
- 1910-1919: 37 bridges
- 1920-1929: 182 bridges
- 1930-1939: 543 bridges
- 1940-1949: 185 bridges.

After the initial field survey results were tabulated, bridges were roughly divided into three categories (*A*, *B*, and *C*). *A* indicates that the bridge has one or more somewhat unusual features, and should be assessed further for potential historical significance. *B* indicates that the bridge has no notable features, is of a common type, and possesses no apparent significance. *C* indicates that the bridge has no notable features and is in poor condition or is largely/totally rebuilt and has lost its historical integrity.

A total of 99 bridges in Virginia were tentatively graded *A*. An *A* rating is not meant as an endorsement of probable historical significance, but denotes that the bridge has some unusual or distinguishing features, or is of a relatively uncommon type and merits further assessment and comparison with *A* rated bridges from the other construction districts.

The *A* rating includes not only bridges with unusual decorative features (including unusual or uncommon railings) but the three least common types of bridges in Virginia: deck-girder bridges, girder-and-floorbeam bridges, and rigid frame bridges. Also included were bridges dating from 1920 or before, a period from which relatively few bridges still survive (and, additionally, the period prior to the 1922 reorganization of the Department of Highways and before the overwhelming use of standard plans). Continuous slabs and continuous T-beams, although not common *per se*, were considered variations of common slab and T-beam construction, and were not given *A* ratings. Continuous girders and continuous rigid frames were given *A* ratings, since they were considered variations of rare bridge types. Bridges in extremely poor, altered or deteriorated physical condition were not given *A* ratings.

With this background data in hand, the final phase of the project was initiated: the development of criteria for determining historic significance, the ranking of bridges according to their historical significance, and development of an historic concrete bridge management plan.

Bristol District (1)

A total of 256 bridges were surveyed in the Bristol District. Slab bridges were the most numerous (73 slab bridges; no continuous slabs) followed closely by T-beams (69 T-beam bridges; no continuous T-beam bridges). Much smaller numbers of other span types were noted: deck-girders (9 bridges), rigid frames (2 simple rigid frames; one continuous rigid frame bridge), and girder-and-floorbeams (1 bridge). There were 101 bridges that were complete or near-complete replacements.

According to VDOT records, the earliest non-arched reinforced concrete bridge still in service in Bristol District is a 1910 slab bridge (Structure # 6242) in Smyth County.

Nineteen bridges in Bristol District were tentatively graded *A*. These bridges, with their distinguishing features, are described below.

Buchanan County (13)

1004: A rigid frame bridge [107], built in 1939, located on Rt. 83 crossing Slate Creek.

Lee County (52)

6326: VDOT records give a date of 1932, but stylistic elements indicate that this deck-girder bridge [102] probably dates from the late 1910s or very early 1920s, as it is similar to standard plan deck-girder bridges of that period. It is located on Rt. 814 crossing Hardy Creek.

Russell County (83)

6270: A deck-girder bridge [102] built in 1923, probably from the ca. 1920-1923 standard plan for deck-girder bridges, located on Rt. 758 crossing Little Cedar Creek.

6273: A deck-girder bridge [102]. VDOT records give a date of 1913, but the bridge is virtually identical to Russell County bridge # 6270 cited above, and is probably from the same standard plan. We are assuming that the 1913 date is an error and are dating this bridge c. 1923 in the survey. This bridge is located on Rt. 770 crossing Indian Creek.

Smyth County (86)

1008: Commemorative "Pioneer Memorial Bridge" with decorative obelisks, a T-beam bridge [104] built in 1932. It is located on Rt. 11 crossing the middle fork of the Holston River.

6242: A slab bridge [101], built in 1910, the oldest remaining in-service non-arched concrete bridge in Bristol District. It is located on Rt. 731 over Carlock Creek.

Tazewell County (92)

6077: A slab bridge [101], built in 1920, located on Rt. 747 crossing Laurel Fork Creek.

6225: A slab bridge [101], built in 1919, located on Rt. 747 crossing Laurel Fork Creek.

6232: A deck-girder bridge [102]. VDOT records give a date of 1932, but stylistic elements indicate that the bridge dates from ca. 1920-1923, as it appears to be built from the standard plan of that period. The bridge is located on Rt. 770 crossing Laurel Branch.

6265: A deck girder bridge [102], built in 1923, apparently from the standard plan of that period, located on Rt. 637 crossing Pounding Mill Brook.

Wise County (97)

6128: A deck-girder bridge [102], built in 1921, located on Rt. 633 crossing Indian Creek.

6141: A slab bridge [101], built in 1915, located on Rt. 613 crossing Beaverdam Creek.

Bristol (102)

- # 1804: A continuous rigid frame bridge [207], built in 1918, located on Mary Street crossing the Norfolk Southern RR.
- # 8001: An unusual T-beam bridge [104], built in 1930, with solid parapets and original concrete streetlight poles, located on Fairview Street crossing Beaver Creek.
- # 8010: A deck-girder bridge [102], built in 1925, located on Oak Street crossing the Norfolk Southern RR.
- # 8015: An unusual T-beam bridge [104], built in 1930, with solid parapets and original concrete streetlight poles, located on Mary Street crossing Beaver Creek.
- # 8027: An unusual concrete and pipe railing on a 1930 T-beam bridge, with original concrete streetlight poles, located on Elm Street crossing Beaver Creek.

Tazewell (158)

- # 8003: A deck-girder bridge [102]. VDOT records give a date of 1932, but stylistic elements indicate that the bridge dates from ca. 1920-1923, as it appears to be built from the standard plan of that period. The bridge is located on Blenbolt Avenue crossing Sulfur Springs Branch.

Lebanon (252)

- # 6079: A deck-girder bridge [102]. VDOT records give date of a 1932, but the 1923 *Annual Report of the State Highway Commissioner* indicates that the bridge was built ca. 1923. The bridge is located on Rt. 1036 crossing Little Cedar Creek.

Salem District (2)

A total of 212 bridges were surveyed in Salem District. T-beam bridges were the most numerous (86 T-beam bridges; 1 continuous T-beam bridge) followed by slab bridges (63 slab bridges; 4 continuous slab bridges), deck-girders (5 bridges), rigid frame (1 bridge), and girder-and floorbeam (1 bridge). There were 51 bridges that were complete or near-complete replacements.

According to VDOT records, the earliest non-arched reinforced concrete bridge still in service in Salem District is a 1919 deck girder bridge (Structure # 6074) in Bedford County. (Although VDOT records carry a building date of 1917 for Structure # 1805 in the town of Pulaski, town records document that this structure underwent a total replacement in 1933-34.)

Ten bridges in Salem District were tentatively graded *A*. Two deck-girder bridges (Structure # 6192, Giles County, built in 1924, and Structure # 6119, Roanoke County, built in 1920), which had been rated *A* in the Interim Report were dropped from the *A* class in the final report, after it was learned that the bridges had serious structural problems which had not been apparent to the field survey team. After reviewing the Interim Report, the Salem District Bridge Engineer notified us that both bridges had areas of sufficiently badly deteriorated concrete to

prevent rehabilitation. Both of these bridges will have their posted load limits reduced as necessary, and may eventually have to be replaced. Pulaski County Structure # 6186 was also rated *A* in the Interim Report. This structure consists of a non-arched slab bridge [101] used to widen a small Luten-type concrete arch bridge [111]. There is no Luten Bridge Company identifying plaque on the arch bridge, but the one surviving original rail of the arch bridge is the cork-rail variant used primarily (maybe exclusively) by the Luten Bridge Company. After consideration of the unusual nature of this bridge, the Historic Structures Task Group decided to drop Structure # 6186 not only from the *A* list but from the Non-Arched Concrete Bridge Survey as well; this bridge will be included in the updated survey of masonry and concrete arch bridges, to be undertaken by the Research Council in 1996-1998.

The Salem District *A* bridges, with their distinguishing features, are listed below.

Bedford County (9)

6074: A deck girder bridge [102]. VDOT records give a date of 1932, but the Annual Reports indicate a construction date of 1919-1920. The bridge is located on Rt. 647 crossing Judith Creek.

Carroll County (17)

6003: A slab bridge [101], built in 1937 by the United States Department of Agriculture/ Forest Service, located on Rt. 602 crossing Brush Creek.

Patrick County (70)

6251: A deck-girder bridge [102]. VDOT records give a date of 1932, but stylistic elements suggest that the bridge was built ca. 1920. The bridge is located on Rt. 765 crossing a tributary of the Mayo River.

Pulaski County (77)

6180: A non-arched continuous slab bridge [201] built in 1932, with a cork-rail variant known to have been used primarily (possibly exclusively?) by the Luten Bridge Company, located on Rt. 636 crossing Back Creek.

Roanoke County (80)

6016: A girder-and-floorbeam bridge [103] built in 1921, located on Rt. 612 crossing an unnamed stream.

Martinsville (120)

1802: An unusual T-beam bridge [104], built in 1934 with solid-parapet railing and obelisks, located on Rt. 58 crossing the Norfolk & Southern RR.

Town of Pulaski (125)

1805: An urban-type T-beam bridge [104] with pre-cast balusters on the railing. VDOT records give a date of 1917, but the town records indicate replacement of the earlier bridge in

1933-34, when Rt. 11 was improved. The bridge is located on Rt. 11 (Washington Avenue) crossing Peak Creek.

8002: A T-beam bridge [104] with unusual cork rail variant with Art Moderne motifs on end posts, built 1933-34. The bridge is located on Randolph Avenue crossing Peak Creek.

8003: An unusual T-beam bridge [104] with solid-parapet railing, built in 1933-34. The bridge is located on Jefferson Avenue crossing Peak Creek.

NOTE: These three bridges are slated for modification or replacement; documentation and mitigation has either been completed or is in progress.

City of Salem (129)

1805: A rigid frame bridge [107], built in 1932 with reconstruction in 1948, located on Rt. 11 crossing the Norfolk & Southern RR.

Lynchburg District (3)

A total of 139 bridges were surveyed in Lynchburg District. T-beam bridges were the most numerous (73 T-beam bridges; no continuous T-beam bridges) followed by slabs (35 slab bridges; 1 continuous slab bridge), and rigid frames (1 bridge). No deck-girders or girder-and-floorbeams were identified during the survey. There were 29 bridges that were complete or near-complete replacements.

According to VDOT records, the earliest non-arched reinforced concrete bridge still in service in Lynchburg District is an 1908 concrete bridge (Structure # 1849), coded as a slab [101] in the city of Lynchburg. This is also the oldest in-service non-arched concrete bridge in Virginia (Figure 16).

Three bridges in Lynchburg District were tentatively graded *A*. These bridges, with their distinguishing features, follow:

Appomattox County (6)

1002: A commemorative bridge built in 1930 in the vicinity of the Civil War surrender site at Appomattox Court House. This T-beam bridge [104] has unique rails incorporating Union and Confederate motifs, with endposts topped with obelisks. The rails were moved and reused, and the end posts and obelisks were replicated when the bridge was widened in 1971. The bridge is located on Rt. 24 crossing the Appomattox River.

Halifax County (41)

6079: A stone-veneered rigid-frame bridge [107] with masonry rails, built in 1935 from plans prepared by the Virginia Department of Highways. This bridge is one of a number of similar stone-veneered bridges and culverts associated with the adjacent Carlbrook estate; it is located on Rt. 684 crossing Birch Creek.



Figure 16. The oldest documented surviving non-arched bridge in Virginia: Structure # 1849, Lynchburg (1908), a slab bridge.

Lynchburg (118)

1849: A concrete bridge, coded as a slab [101] with solid parapet rails, built in 1908. It is the oldest in-service non-arched concrete bridge both in Lynchburg District and in Virginia. The bridge is located on Bedford Avenue crossing the Norfolk Southern RR. However, there are some anomalies: the 47-foot length of this bridge is far longer than the maximum 25 feet recommended for slabs at the time; the heavy (approximately 2 feet thick) parapets suggest a through-girder, but the width of the roadway (35 feet with an additional 5-foot sidewalk) is double the usual 20-foot maximum width for through-girder construction. Although the original bridge inspection report described the bridge as a “beam,” suggesting a deck-girder [102], there is no apparent physical evidence of deck-girder construction, and the bridge is currently coded as a slab. The structure was built by the Southern Railroad; according to the Norfolk-Southern Archives no plans survive, and thus the exact technology of this unusual bridge is uncertain. Possibly it is basically a slab with extremely heavy reinforcement or conventional reinforcement strengthened with encased I-beams. When the bridge reaches the end of its useful life, a demolition study would add much to our knowledge of early reinforced concrete bridge construction in Virginia.

Richmond District (4)

A total of 123 bridges were surveyed in Richmond District. T-beam bridges were the most numerous (33 T-beam bridges; 3 continuous T-beam bridges) followed by slabs (24 slab

bridges; no continuous slab bridges), girder-and-floorbeams (2 girder-and-floorbeam bridges; 1 continuous girder bridge), deck-girders (1 deck-girder bridge; 1 continuous beam bridge), and rigid frame (1 continuous rigid frame bridge). There were 57 bridges that were complete or near-complete replacements.

According to VDOT records, the earliest non-arched reinforced concrete bridge still in service in Richmond District is a 1913 concrete slab bridge (Structure # 1850) in the city of Richmond.

Twelve bridges in Richmond District were tentatively graded *A*. One bridge built in 1920, Structure # 8069 in the city of Richmond, was not given an *A* rating due to alterations to the structure which compromised its historical integrity. The *A* bridges, with their distinguishing features, are as follow:

Charles City County (18)

6004: A deck-girder bridge [102] built in 1920, located on Rt. 609 crossing East Run.

Hanover County (42)

6040: A bridge, built in 1919 and coded as a slab [101], located on Rt. 661 crossing Stony Run. However, the extremely heavy parapets of this bridge raise the possibility that this bridge may be a smooth-bottomed through-girder [103]. No plans, construction drawings or other structural documentation on this bridge have been found.

6059: A girder-and-floorbeam bridge [103] built in 1917, located on Rt. 686 crossing the South Anna River.

6908: A girder-and-floorbeam bridge [103] built in 1920, located at the end of Rt. 623 and in the process of being abandoned.

Henrico County (43)

1001: A continuous rigid-frame bridge [207] built in 1938, possibly an experimental structure. One of only three pre-1950 207 spans in the state, and the only one not crossing railroad tracks, this bridge is located on Rt. 1 crossing Upham Brook.

Lunenburg County (55)

6132: A slab bridge [101] built in 1915, located on Rt. 638 crossing Stony Creek.

Powhatan County (72)

1009: A slab bridge [101] built in 1920, located on Rt. 13 crossing Sallee Creek.

City of Petersburg (123)

1813: An access ramp to Structure # 1912 (see below), and like # 1912 a continuous T-beam [204], built at the same time and in the same style.

1912: An extremely long (1683 ft.) monumental urban bridge, a continuous T-beam bridge [204] built in 1925 as a cooperative effort by several public and private entities. The bridge is located on Rt. 1 crossing the Appomattox River.

City of Richmond (127)

1850: A slab bridge [101] built in 1913. This is the oldest in-service non-arched concrete bridge in Richmond District; it is located on Rt. 5 crossing the CSX RR.

8066: A continuous girder bridge [203] with unusual railing, built in 1935; possibly an experimental structure, it is the only remaining pre-1950 203 span in the state. The bridge is located on 1st Street crossing the CSX RR and Valley Road.

8067: A continuous beam bridge, built in 1938 [coded as 202]. Possibly an experimental structure, with an unusual railing with consoles on the endposts, it is the only pre-1950 202 in the state. The bridge is located on Water Street over a storm drain.

Suffolk District (5)

A total of 47 bridges were surveyed in Suffolk District. Of those bridges which retained discernible historical integrity, T-beams were the most numerous (18 T-beam bridges; 1 continuous T-beam bridge), followed by slabs (7 slab bridges; 1 continuous slab bridge), and deck-girders (3 bridges). No girder-and-floorbeams or rigid frames were identified in this district during the course of the survey. There were 18 bridges that were complete or near-complete replacements.

According to VDOT records, the earliest non-arched reinforced concrete bridge identified in Suffolk District is Structure # 8003 in Newport News, built in 1915 but extensively (and probably completely) rebuilt in 1931 as a cork-railed T-beam. In any event, the bridge retains no identifiable elements which reflect 1910's technology. The next-oldest bridges in the district are two deck-girders dating from 1919. Structure # 6030 in Greensville County, a solid-parapet deck-girder bridge, retains its historical integrity. Structure # 6104 in Sussex County retains less of its original integrity; it currently has modern guard rails, with no indication of earlier railings.

Seven bridges in Suffolk District were tentatively graded *A*. These bridges, with their distinguishing features, are:

Chesapeake (131)

1808: An unusual T-beam bridge [104], incorporating automobile and railroad bridges, built in 1948 with some reconstruction in 1960. The bridge is located on Rt. 13 (Military Highway), crossing the Norfolk Southern RR and Rt. 460.

Greensville County (40)

6030: Built in 1919, this deck-girder bridge [102] is the oldest remaining non-arched concrete bridge in Suffolk District retaining its original appearance. It is located on Rt. 688 crossing Falling Run.

Hampton (114)

8006: A slab bridge [101] built in 1929 with an unusual cork rail featuring obelisks for lighting fixtures, located on Powhatan Parkway crossing Indian River.

Norfolk (122)

1843: This structure, the 26th St. Bridge, has an unusual metal/concrete railing. It is a continuous slab bridge [201] built in 1939 with Federal Emergency Administration of Public Works funds. The bridge is located on 26th Street crossing the Lafayette River.

Southampton (87)

1931: A T-beam bridge [104] built in 1936 as a cooperative project between Virginia and North Carolina, using Federal funds. It is located on Rt. 186 crossing the Meherrin River

Sussex (91)

6104: Built in 1919, this deck girder bridge [102] has a modern guardrail; there is no indication of the original railing. It is located on Rt. 681 crossing Harris Swamp.

6122: A slab bridge [101] built on top of a mill dam, ca. 1910-1915, located on Rt. 603 crossing Spring Mill Pond.

Fredericksburg District (6)

A total of 55 bridges were surveyed in Fredericksburg District. T-beam bridges were the most numerous (18 T-beam bridges; 1 continuous T-beam bridge), followed by slabs (10 slab bridges; no continuous slabs), girder-and-floorbeams (1 bridge), and rigid frames (1 continuous rigid frame). No deck-girders were identified in this district during the course of the survey. There were 24 bridges that were complete or near-complete replacements.

According to VDOT records, the earliest non-arched reinforced concrete bridge still in service in Fredericksburg District is a 1914 slab bridge (Structure # 6017) in Caroline County. The next oldest in-service non-arched concrete bridge is a continuous rigid frame bridge, Structure # 6020 in Stafford County, built in 1917.

Four bridges in Fredericksburg District were tentatively graded *A*. These bridges, with their distinguishing features, are:

Caroline County (16)

6017: A slab bridge [101], built in 1914, this is the oldest remaining in-service non-arched concrete bridge in Fredericksburg District. It is located on Rt. 614 (Ware Creek Road), crossing Ware Creek.

Essex County (28)

6018: A girder-and-floorbeam bridge [103], built in 1923, located on Rt. 691 crossing Piscataway Creek.

Stafford County (89)

6020: A continuous rigid frame [207], built in 1917, located on Rt. 630 crossing the R.F. & P. RR.

6075: VDOT records give a date of 1931, but stylistic elements suggest that this slab bridge [101] may date from first half of 1920s. Its solid parapet (with rounded edges) is a form usually seen on ca. 1920-1923 standard plan deck girders. This bridge is attached to a 1904 arched railroad culvert that is the oldest reinforced concrete bridge in Virginia. Although VDOT records cite this as a single span, 23-foot slab bridge, each parapet of the slab bridge is approximately twice this length, and each parapet is on an opposite side of the culvert. Structure # 6075's significance arises from its proximity to the 1904 bridge. Any alterations to Structure # 6075 will likely impact upon the older bridge. The bridge is located on Rt. 607, under the R. F. & P. RR and crossing Clayborn Run.

Culpeper District (7)

A total of 139 bridges were surveyed in Culpeper District. Slab bridges were the most numerous (51 slab bridges; 3 continuous slab bridges), followed by T-beams (20 T-beam bridges; no continuous T-beams), deck-girders (4 bridges), girder-and-floorbeams combined with slab approaches (2 bridges), and rigid frame (1 bridge). There were 58 bridges that were complete or near-complete replacements.

According to VDOT records, the earliest non-arched reinforced concrete bridge still in service in Culpeper District is the 1913 girder-and-floorbeam bridge with slab approach spans (Structure # 6046) near Carrico's Mill in Culpeper County. Culpeper County also contains a similar bridge, built in 1915 (Structure # 6010), which is the second-oldest in-service non-arched concrete bridge in the district.

Ten bridges in Culpeper District were tentatively graded *A*. These bridges, with their distinguishing features, are:

Albemarle County (2)

1046: A rigid frame bridge [107], built in 1936, located on Rt. 250 crossing Little Ivy Creek.

Culpeper County (23)

- # 6010: A girder-and-floorbeam bridge [103] with slab approach spans [101], built in 1915. It is the second-oldest in-service non-arched concrete bridge in Culpeper District. It is located on Rt. 620 crossing Mountain Run.
- # 6046: A girder-and-floorbeam bridge [103] with slab approach spans [101], built in 1913. This is the oldest in-service non-arched concrete bridge in Culpeper District. It is located on Rt. 669 crossing Mountain Run.

Fauquier County (30)

- # 1033: A deck-girder bridge [102], built in 1923, probably from a standard plan. It is located on Rt. 215 crossing South Run.
- # 1065: A slab bridge [101] with solid parapets. A marble plaque documents the builder's name and date: "Built by/R. H. LeGarde/The Plains, Va./1925." It is located on Rt. F-185 crossing Goose Creek. (Note: information from the Fauquier Heritage Society indicates that Mr. Legard was a local farm manager who also ran a small, part-time bridge contracting business in Fauquier County in the early and mid-1920s.)
- # 6036: A continuous slab bridge [201] built in 1928 with an unusual railing which is probably a local variant of the cork rail, located on Rt. 626 crossing Burnt Mill Branch.
- # 6053: A deck-girder bridge [102]. VDOT records give a date of 1932, but stylistic elements indicate that the bridge probably dates from first half of the 1920s. It is located on Rt. 647 crossing Thumb Run.
- # 6054: A deck-girder bridge [102]. A marble plaque gives the builder's name and date: "Built by/R. H. LeGarde/The Plains, Va./1923." It is located on Rt. 647 crossing Thumb Run.
- # 6232: A continuous slab bridge [201] built in 1919; its unusual railing is probably a local variant of the cork rail and is virtually identical to the railing on Fauquier County Structure # 6036. It is located on Rt. 776 crossing Little River.

Rappahannock County (78)

- # 6047: A deck-girder bridge [102] built in 1920, located on Rt. 655 crossing Beaverdam Creek.

Staunton District (8)

A total of 381 bridges were surveyed in Staunton District. When tabulated, the survey results indicated that slab bridges were the most numerous (165 slab bridges; 7 continuous slab bridges), followed by T-beams (98 T-beam bridges; 3 continuous T-beams). Much smaller numbers of other types of bridges were noted: deck-girders (7 bridges), girder-and-floorbeams (4 bridges), and rigid frame (1 bridge). There were 96 bridges that were complete or near-complete rebuildings/replacements.

The earliest bridge still in service is the 1909 girder-and-floorbeam structure near Churchville in Augusta County (Structure # 6113) (Figure 17). The second-oldest in-service bridge is the 1912 deck-girder in the town of Staunton (Structure # 8002).



Figure 17. The second-oldest documented non-arched bridge in Virginia: Structure # 6113, Augusta County (1909), a girder-and-floorbeam bridge.

Twenty-seven bridges in Staunton District were tentatively graded *A*. One girder-and-floorbeam (Structure # 6086, Augusta County, built in 1925) was not given an *A* rating due to its extremely poor condition: its concrete is disintegrating, and portions of its parapets have completely weathered away. The *A* bridges, with their distinguishing features, follow:

Alleghany County (3)

6046: An unusually deep T-beam bridge [104] built in 1932, located on Rt. 632 crossing Wilson Creek.

6067: This large (9 span, 324 feet) continuous T-beam [204], built in 1925, is a well-designed bridge crossing the major C&O (now CSX) railroad corridor at the entrance to Clifton Forge. Excellent context: the bridge, town, railroad and mountain views combine into an impressive total image, and further research into its design and history may be warranted. The bridge is located on Rt. 696 crossing the CSX railroad.

Augusta County (7)

1182: A slab bridge [101] built in 1920, with unique applied decoration on its solid parapet, located on Rt. 252 crossing Moffats Creek.

6104: A slab bridge [101] built in 1919, located on Rt. 705 crossing Middle River.

6106: A slab bridge [101] built in 1920, located on Rt. 707 crossing Middle River.

6113: Built in 1909, this girder-and-floorbeam bridge [103] is the oldest in-service non-arched concrete bridge in Staunton District. It is located on Rt. 722 crossing Whiskey Creek.

6283: A slab bridge [101] built in 1935, with unique molded and applied decoration on its solid parapet. It is located on Rt. 613 crossing a tributary of Long Glade Creek.

- # 6339: Built in 1925, this slab bridge [101] has decorative molded panels on the solid parapet; it is possibly from a standard plan. The bridge is located on Rt. 732 crossing a tributary of Middle River.
- # 6553: A deck girder bridge [102] built in 1925 from a standard plan, located on Rt. 1205 crossing South River.

Frederick County (34)

- # 6049: A deck girder bridge [102]. VDOT records give a construction date of 1916; the plans are dated 1918, from January, 1917 standard plans. The bridge is located on Rt. 723 crossing Buffalo Lick Run.
- # 6904: A deck girder bridge [102]. VDOT records give a construction date of 1932; the plans are dated 1918, from December, 1916 standard plans. It is located on Rt. 723 crossing Opequon Creek.

Page County (69)

- # 6030: A girder and floorbeam bridge [103] built in 1915, located on Rt. 642 crossing Mill Creek. There are a number of well-preserved 19th and early 20th century buildings surrounding the bridge.
- # 6037: A deck girder bridge [102], built in 1919, located on Rt. 662 crossing Jeremiah Run.

Rockbridge County (81)

- # 6106: A 1928 slab bridge [101] with inscription "JMK Nov 16 1928 1928" in concrete. The bridge is located on Rt. 646 crossing Collier's Creek.
- # 6513: A 16-span, 112-foot lowwater bridge [101]. VDOT records give a construction date of 1932, the year the bridge was taken into the state system, but the bridge may predate this. It is surrounded by a hamlet containing well-preserved 19th and early 20th century buildings. The bridge is located at the intersection of Rts. 674 and 753, and crosses Buffalo Creek.

Rockingham County (82)

- # 6584: A rigid frame bridge [107] built in 1934 (rebuilt in 1941). Located on Rt. 996, crossing Stony Run in the village of McGaheysville, this structure has an unusual, urban-style railing for a bridge in a small rural village.

Shenandoah County (85)

- # 6011: A 15-span, 212-foot lowwater bridge [101]. VDOT records give a construction date of 1932, the year the bridge was taken into the state system, but the bridge may predate this. It is located on Rt. 609 crossing the North Fork of the Shenandoah River.
- # 6043: A 16-span, 293-foot lowwater bridge [mostly 101], built in 1922, and located on Rt. 663 crossing the North Fork of the Shenandoah River.
- # 6092: A 12-span, 204-foot lowwater bridge [101]. VDOT records give a construction date of 1932, the year the bridge was taken into the state system, but the bridge may predate this. The bridge is located on Rt. 744 crossing the North Fork of the Shenandoah River.

- # 6113: A small lowwater bridge [101], built in 1916, and located on Rt. 758 crossing Passage Creek.
- # 6368: A slab bridge [101], built in 1934 by the United States Department of Agriculture/ Forest Service. It is located on Rt. 678 crossing Dry Run. This is at the hamlet of Seven Fountains; there are a number of well-preserved 19th and early 20th century structures in the vicinity.

Warren County (93)

- # 6007: A deck girder bridge [102], built in 1918. The bridge is located on Rt. 613 crossing Gooney Creek; it is surrounded by the village of Browntown, containing well-preserved structures dating from the late 19th and early 20th century (contemporary with the bridge).
- # 6011: A 13-span, 266-foot lowwater bridge. It was built in 1923; a plaque lists a county supervisor, the engineer and builder. The bridge is located on Rt. 613, crossing the South Fork of the Shenandoah River.
- # 6017: A girder and floorbeam bridge [103], built in 1918. The bridge is located on Rt. 622 crossing Gooney Creek.
- # 6019: A 16-span, 321-foot lowwater bridge, built in 1925; a plaque lists the county supervisors, the engineer, inspector and builder. The bridge is located on Rt. 624 crossing the Shenandoah River.

City of Clifton Forge (105)

- # 8006: A standard-plan T-beam bridge with unusual bronze plaques commemorating World War I casualties from the area. The bridge is located on Lowell Street crossing Smith Creek.

City of Staunton (132)

- # 8002: A deck girder bridge [102] built in 1912; “4/20/12 WLA” is inscribed in the concrete. This is the second-oldest remaining non-arched concrete bridge in Staunton District. The bridge is located at the entrance to the municipal sewerage treatment plant, crossing Lewis Creek.

NOVA District (A)

A total of 68 bridges were surveyed in NOVA District. When tabulated, the survey results indicated that slab bridges were the most numerous (14 slab bridges; no continuous slabs), followed by T-beams (12 T-beam bridges; no continuous T-beams), rigid frames (3 bridges, including one in poor and altered condition), deck-girders (1 bridge), and girder-and-floorbeams (1 bridge). A total of 37 bridges were complete or near-complete rebuildings/replacements.

The earliest bridge still in service is the 1911 girder-and-floorbeam structure in Loudoun County (Structure # 6032).

Six bridges in NOVA District were tentatively graded *A*. These bridges, with their distinguishing features, are:

Arlington County (0)

5020: A rigid frame bridge [107] built in 1945; it is located on Memorial Avenue, crossing Rt. 110, adjoining Arlington National Cemetery.

5069: A rigid frame bridge [107] built in 1941, located on Smith Boulevard crossing Abingdon Drive.

Fairfax County (29)

6332: A slab bridge [101] built in 1920, located on Rt. 3546 (Twin Lakes Drives) crossing Johnny Moore Creek.

Loudoun County (53)

6002: A slab bridge [101] built in 1914, located on Rt. 607 crossing Beaverdam Run.

6020: A deck-girder bridge [102] built in 1919, located on Rt. 719 crossing Jefferies Branch.

6032: A girder and floorbeam bridge [103] built in 1911, the oldest remaining non-arched concrete bridge in NOVA District. The bridge is located on Rt. 629 crossing Little River.

CRITERIA AND HISTORICAL SIGNIFICANCE

The final criteria for determining historic significance/national register eligibility were formulated by the Historic Structures Task Group in late 1995. Although based on similar criteria for determining the historical significance of buildings, there were several adaptations to accommodate bridges, and non-arched concrete bridge construction in particular, and to eliminate subjectivity as much as possible. Figure 18 shows the eligibility rating sheet.

The maximum possible score with a determination of national significance is 38; the maximum score with a determination of statewide significance is 33; with regional significance, 30; with local significance, 28. A score of 18 is the cut-off between eligible bridges (18 points or over) and those bridges deemed not eligible (less than 18 points).

Bristol District (1)

One bridge in Bristol District was found individually eligible for the National Register (Structure # 1804 in the city of Bristol). Ratings are:

Buchanan County (13)

1004: Rigid frame [107], 1939, Rt. 83 crossing Slate Creek. **Rating: 13**

CONCRETE BRIDGE ELIGIBILITY RATING SHEET

District: _____ County: _____

Structure No. _____ Route _____ Crossing: _____

I. Categories

A. DHR Theme(s): _____

B. Period(s) of Significance: _____

C. Area(s) of Significance: _____

D. National Register Criteria: _____

II. Assignment of Basic Points

A.	Level of Significance (local, regional, state, national)	5	7	10	15
B.	Visual Prominence as a Landmark	0	1	2	3
C.	Rarity of Bridge Type	0	1	2	3
D.	Rarity of Design Elements (including unique or special features)	0	1	2	3
E.	Technological Significance (first of its kind)	0	1	2	3
F.	Integrity of Bridge (Condition, Degree of Modifications)	0	1	2	3
G.	Contextual Integrity				
	(1) General Surroundings	0	1	2	
	(2) Immediate and associated transportation resources	0	1	2	
H.	Historic Significance and Associative Value (including builder)	0	1	2	3

Figure 18. Concrete Bridge National Register Eligibility Sheet.

Lee County (52)

6326: Deck-girder [102], ca. 1920, Rt. 814 crossing Hardy Creek. **Rating: 13**

Russell County (83)

6270: Deck-girder [102], 1923, Rt. 758 crossing Little Cedar Creek. **Rating: 11**

6273: Deck-girder [102], ca. 1923, Rt. 770 crossing Indian Creek. **Rating: 12**

Smyth County (86)

1008: "Pioneer Memorial Bridge" T-beam [104], 1932, Rt. 11 crossing the middle fork of the Holston River. **Rating: 16**

6242: Slab [101], 1910, Rt. 731 over Carlock Creek. **Rating: 9**

Tazewell County (92)

6077: Slab [101], 1920, Rt. 747 crossing Laurel Fork Creek. **Rating: 10**

6225: Slab [101], 1919, Rt. 747 crossing Laurel Fork Creek. **Rating: 7**

6232: Deck-girder [102], ca. 1920-1923, Rt. 770 crossing Laurel Branch. **Rating: 12**

6265: Deck girder [102], built 1923, Rt. 637 crossing Pounding Mill Brook. **Rating: 11**

Wise County (97)

6128: Deck-girder [102], 1921, Rt. 633 crossing Indian Creek. **Rating: 12**

6141: Slab [101], 1915, Rt. 613 crossing Beaverdam Creek. **Rating: 7**

Bristol (102)

1804: Continuous rigid frame [207], 1918, Mary Street crossing the Norfolk Southern RR. **Rating: 20 [Eligible for National Register]**

8001: T-beam [104], 1930, Fairview Street crossing Beaver Creek. **Rating: 10**

8010: Deck-girder [102], 1925, Oak Street crossing the Norfolk Southern RR. **Rating: 13**

8015: T-beam [104], 1930, Mary Street crossing Beaver Creek. **Rating: 10**

8027: T-beam [104], 1930, Elm Street crossing Beaver Creek. **Rating: 9**

Tazewell (158)

8003: Deck-girder [102], ca. 1920-1923, Blenbolt Avenue crossing Sulfur Springs Branch. **Rating: 11**

Lebanon (252)

6079: Deck-girder [102], ca. 1923, Rt. 1036 crossing Little Cedar Creek. **Rating: 11**

Salem District (2)

No bridges in Salem District were found individually eligible for the National Register. Ratings are:

Bedford County (9)

6074: Deck girder [102], ca.1919-1920, Rt. 647 crossing Judith Creek. **Rating: 12**

Carroll County (17)

6003: Slab bridge [101], 1937, Rt. 602 crossing Brush Creek. **Rating: 13**

Patrick County (70)

6251: Deck-girder [102], ca. 1920, Rt. 765 crossing a tributary of the Mayo River. **Rating: 13**

Pulaski County (77)

6180: Continuous slab bridge [201], 1932, Rt. 636 crossing Back Creek. **Rating: 10**

Roanoke County (80)

6016: Girder-and-floorbeam [103], 1921, Rt. 612 crossing an unnamed stream. **Rating: 14**

Martinsville (120)

1802: T-beam [104], 1934, Rt. 58 crossing the Norfolk & Southern RR. **Rating: 14**

Town of Pulaski (125)

1805: T-beam [104], 1933-34, Rt. 11 (Washington Avenue) crossing Peak Creek.

8002: T-beam [104], 1933-34, Randolph Avenue crossing Peak Creek.

8003: T-beam [104], 1933-34, Jefferson Avenue crossing Peak Creek

Rating: Not individually evaluated since all three bridges have been previously determined to be contributing structures to the surrounding historic district.

City of Salem (129)

1805: Rigid frame [107], 1932 with 1948 reconstruction, Rt. 11 crossing Norfolk & Southern RR. **Rating: 17**

Lynchburg District (3)

Two bridges in Lynchburg District were found individually eligible for the National Register (Appomattox County Structure # 1002 and Structure # 1849 in the city of Lynchburg). Ratings are:

Appomattox County (6)

1002: T-beam [104], 1930 with 1971 widening, Rt. 24 crossing the Appomattox River.

Rating: 21 [Eligible for the National Register]

Halifax County (41)

6079: Rigid-frame [107], 1935, Rt. 684 crossing Birch Creek. **Rating: 18**

[NOTE: this bridge achieved a rating of 18 due to a combination of its rigid frame technology and its stone veneer, which is rare in non-arched concrete bridges. However, the Historic Structures Task Group notes the presence of a number of similar stone-veneered bridges in the vicinity (a slab culvert and two arches , all apparently associated with the adjacent Carlbrook estate). While Structure # 6079 is unusual compared with other non-arched concrete bridges in Virginia, it is not unusual in comparison with the other Carlbrook bridges. Accordingly, the Task Group recommends that Structure # 6079 not be considered individually eligible for the National Register, but rather recommends that further research should be done, with possible evaluation of the Carlbrook bridges as a group.]

Lynchburg (118)

1849: Coded as a slab [101], 1908, Bedford Avenue crossing the Norfolk Southern RR.

Rating: 18 [Eligible for the National Register]

Richmond District (4)

Four bridges in Richmond District were found individually eligible for the National Register. The Task Group evaluated Henrico Structure # 1001. City of Petersburg Structures 1813 and 1912 and City of Richmond Structure # 8066 were previously determined eligible. Ratings follow:

Charles City County (18)

6004: Deck-girder [102] built in 1920, Rt. 609 crossing East Run. **Rating: 12**

Hanover County (42)

6040: Coded as a slab [101] but a possible through-girder [103], 1919, Rt. 661 crossing Stony Run. Evaluated as a through-girder. **Rating: 13**

6059: Girder-and-floorbeam [103], 1917, Rt. 686 crossing the South Anna River. **Rating: 12**

6908: Girder-and-floorbeam [103], 1920, end of Rt. 623 and in the process of being abandoned. **Rating: 10**

Henrico County (43)

1001: Continuous rigid-frame [207], 1938, Rt. 1 crossing Upham Brook. **Rating: 19 [Eligible for the National Register]**

Lunenburg County (55)

6132: Slab [101], 1915, Rt. 638 crossing Stony Creek. **Rating: 9**

Powhatan County (72)

1009: Slab [101], 1920, Rt. 13 crossing Sallee Creek. **Rating: 8**

City of Petersburg (123)

1813: Continuous T-beam [204], 1925, access to # 1912

1912: Continuous T-beam [204], 1925, Rt. 1 crossing Appomattox River.

Rating: Both of these bridges were previously determined eligible.

City of Richmond (127)

1850: Slab [101], 1913, Rt. 5 crossing the CSX RR. **Rating: 10**

8066: Continuous girder [203], 1935, 1st Street crossing the CSX RR and Valley Road.

Rating: Previously determined eligible.

8067: Continuous beam [202], 1938, Water Street over a storm drain. **Rating: 15**

Suffolk District (5)

No bridges in Suffolk District were found individually eligible for the National Register. Ratings are as follows:

Chesapeake (131)

1808: T-beam [104], 1948, Rt. 13 (Military Highway), crossing the Norfolk Southern RR and Rt. 460. **Rating: 17**

Greensville County (40)

6030: Deck-girder [102], 1919, Rt. 688 crossing Falling Run. **Rating: 13**

Hampton (114)

8006: Slab [101], 1929, Powhatan Parkway crossing Indian River. **Rating: Not individually evaluated; previously determined to be a contributing structure to an historic district.**

Norfolk (122)

1843: "26th St. Bridge," continuous slab [201], 1939, 26th Street crossing Lafayette River.

Rating: Not individually evaluated; this structure is being evaluated as part of a cultural resources survey.

Southampton (87)

1931: T-beam [104], 1936, Rt. 186 crossing the Meherrin River. **Rating: 14**

Sussex (91)

6104: Deck girder [102], 1919, Rt. 681 crossing Harris Swamp. **Rating: 9**

6122: Slab [101], ca. 1910-1915, Rt. 603 crossing Spring Mill Pond. **Rating: 14** [Note: The Task Group recommended this structure as “not eligible” when evaluated as a bridge, as it is effectively part of a milldam; however, it might be eligible for the National Register for other reasons related to the adjacent mill or roadway.]

Fredericksburg District (6)

No bridges in Fredericksburg District were found individually eligible for the National Register. Ratings are:

Caroline County (16)

6017: Slab [101], 1914, Rt. 614 (Ware Creek Road), crossing Ware Creek. **Rating: 9**

Essex County (28)

6018: Girder-and-floorbeam [103], 1923, Rt. 691 crossing Piscataway Creek. **Rating: 13**

Stafford County (89)

6020: Continuous rigid frame [207], 1917, Rt. 630 crossing the R.F. & P. RR. **Rating: 15**

6075: Coded as a slab [101], ca. 1920-1923, Rt. 607 under the R. F. & P. RR and crossing Clayborn Run. **Rating: 11**

Culpeper District (7)

One bridge in Culpeper District was found individually eligible for the National Register (Culpeper County Structure # 6046, which was previously determined eligible). Ratings are:

Albemarle County (2)

1046: Rigid frame [107], 1936, Rt. 250 crossing Little Ivy Creek. **Rating: 13**

Culpeper County (23)

6010: Girder-and-floorbeam [103] with slab approach spans [101], 1915, Rt. 620 crossing Mountain Run. **Rating: 15**

6046: Girder-and-floorbeam [103] with slab approach spans [101], 1913, Rt. 669 crossing Mountain Run. **Rating: Not individually evaluated; previously determined eligible.**

Fauquier County (30)

1033: Deck-girder [102], 1923, Rt. 215 crossing South Run. **Rating: 13**

1065: Slab [101], 1925, Rt. F-185 crossing Goose Creek. **Rating: 10**

6036: Continuous slab [201], 1928, Rt. 626 crossing Burnt Mill Branch. **Rating: 11**

6053: Deck-girder [102], early 1920s, Rt. 647 crossing Thumb Run. **Rating: 12**

6054: Deck-girder [102], 1923, Rt. 647 crossing Thumb Run. **Rating: 13**

6232: Continuous slab [201], 1919, Rt. 776 crossing Little River. **Rating: 9**

Rappahannock County (78)

6047: Deck-girder [102], 1920, Rt. 655 crossing Beaverdam Creek. **Rating: 12**

Staunton District (8)

Two bridges in Staunton District were found individually eligible for the National Register (Augusta County Structure # 6113 and Augusta County Structure # 6553). Ratings are:

Alleghany County (3)

6046: T-beam [104], 1932, Rt. 632 crossing Wilson Creek. **Rating: 9**

6067: Continuous frame [207], 1925, Rt. 696 crossing the CSX railroad. **Rating: Not evaluated; the bridge is part of a current project.**

Augusta County (7)

1182: Slab [101], 1920, Rt. 252 crossing Moffats Creek. **Rating: 11**

6104: Slab [101], 1919, Rt. 705 crossing Middle River. **Rating: 10**

6106: Slab [101], 1920, Rt. 707 crossing Middle River. **Rating: 11**

6113: Girder-and-floorbeam [103], 1909, Rt. 722 crossing Whiskey Creek. **Rating: 21**
[Eligible for the National Register]

6283: Slab [101], 1935, Rt. 613 crossing a tributary of Long Glade Creek. **Rating: 8**

6339: Slab [101], 1925, Rt. 732 crossing a tributary of Middle River. **Rating: 10**

6553: Deck girder [102], 1925, Rt. 1205 crossing South River. **Rating: 19 [Eligible for the National Register]**

Frederick County (34)

6049: Deck girder [102], 1918, Rt. 723 crossing Buffalo Lick Run. **Rating: 13**

6904: Deck girder [102], 1918, Rt. 723 crossing Opequon Creek. **Rating: 14**

Page County (69)

6030: Girder and floorbeam [103], 1915, Rt. 642 crossing Mill Creek. **Rating: 15**

6037: Deck girder [102], 1919, Rt. 662 crossing Jeremiah Run. **Rating: 11**

Rockbridge County (81)

6106: Slab [101], 1928, Rt. 646 crossing Collier's Creek. **Rating: 9**

6513: Lowwater slab [101], pre-1932, at intersection of Rts. 674 and 753, crossing Buffalo Creek. **Rating: 10**

Rockingham County (82)

6584: Rigid frame [107], 1934 (rebuilt in 1941), Rt. 996 crossing Stony Run. **Rating: 17**

Shenandoah County (85)

- # 6011: Lowwater slab [101], pre-1932, Rt. 609 crossing the North Fork of the Shenandoah River. **Rating: 10**
- # 6043: Lowwater [mostly 101], 1922, Rt. 663 crossing the North Fork of the Shenandoah River. **Rating: 8**
- # 6092: Lowwater slab [101], pre-1932, Rt. 744 crossing the North Fork of the Shenandoah River. **Rating: 9**
- # 6113: Lowwater slab [101], 1916, Rt. 758 crossing Passage Creek. **Rating: 8**
- # 6368: Slab [101], 1934, Rt. 678 crossing Dry Run. **Rating: 14**

Warren County (93)

- # 6007: Deck girder [102], 1918, Rt. 613 crossing Gooney Creek. **Rating: 15**
- # 6011: Lowwater slab [101], 1923, Rt. 613 crossing the South Fork of the Shenandoah River. **Rating: 10**
- # 6017: Girder and floorbeam [103], 1918, Rt. 622 crossing Gooney Creek. **Not rated: the bridge is part of a current project and was previously determined not eligible.**
- # 6019: Lowwater slab [101], 1925, Rt. 624 crossing the Shenandoah River. **Rating: 9**

City of Clifton Forge (105)

- # 8006: T-beam [104], 1928, Lowell Street crossing Smith Creek. **Rating: 10**

City of Staunton (132)

- # 8002: Deck girder [102], 1912, entrance to the municipal sewage treatment plant, crossing Lewis Creek. **Rating: 17**

NOVA District (A)

One bridge in NOVA District was found individually eligible for the National Register (Arlington County Structure # 5020). Ratings are:

Arlington County (0)

- # 5020: Rigid frame [107], 1945, Memorial Avenue, crossing Rt. 110, adjoining Arlington National Cemetery. **Rating: 23**
- # 5069: Rigid frame [107], 1941, Smith Boulevard crossing Abingdon Drive. **Rating: 13**

Fairfax County (29)

- # 6332: Slab [101], 1920, Rt. 3546 (Twin Lakes Drives) crossing Johnny Moore Creek. **Rating: 10**

Loudoun County (53)

- # 6002: Slab [101], 1914, Rt. 607 crossing Beaverdam Run. **Rating: 11**
- # 6020: Deck-girder [102], 1919, Rt. 719 crossing Jefferies Branch. **Rating: 15**

6032: Girder-and-floorbeam [103], 1911, Rt. 629 crossing Little River. **Rating: 16**

**FINAL LIST:
NON-ARCHED CONCRETE BRIDGES ELIGIBLE FOR THE
NATIONAL REGISTER OF HISTORIC PLACES**

City of Bristol Structure # 1804

Appomattox County Structure # 1002

City of Lynchburg Structure # 1849 (Figure 16)

Henrico County Structure # 1001

City of Petersburg Structure # 1813

City of Petersburg Structure # 1912

City of Richmond Structure # 8066

Culpeper County Structure # 6046

Augusta County Structure # 6113 (Figure 17)

Augusta County Structure # 6553

Arlington County Structure # 5020

Note: Although Halifax County Structure # 6079 achieved a rating of 18 due to a combination of its rigid frame technology and its stone veneer (which is rare in non-arched concrete bridges), the Historic Structures Task Group notes the presence of three similar stone-veneered bridges in the vicinity (a slab culvert and two arches), all apparently associated with the adjacent Carlbrook estate. While Structure # 6079 is unusual compared with other non-arched concrete bridges in Virginia, it is not unusual in comparison with the other Carlbrook bridges. Accordingly, the Task Group recommends that Structure # 6079 not be considered individually eligible for the National Register, but rather recommends that further research should be done, with possible evaluation of the Carlbrook bridges as a group.

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APPENDIX

KEY TO TABULATIONS

Span Types:

- 101 = Concrete slab
- 102 = Concrete stringer, multibeam or girder
- 103 = Concrete girder and floorbeam
- 104 = Concrete T-beam
- 107 = Concrete rigid frame
- 201 = Concrete continuous slab
- 202 = Concrete continuous beam
- 203 = Concrete continuous girder-and-floorbeam
- 204 = Concrete continuous T-beam
- 207 = Concrete continuous rigid frame

Condition:

- G = Good
- F = Fair
- P = Poor
- A = Altered
- RK = Portions of bridge were replaced in kind (e.g. original elements were replicated using the original kind of material)
- RB = Near/Total Rebuilding

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
1-BRISTOL	010-BLAND	1001	52	CORK	1927/1985	F/RK	101	2	44	B	
1-BRISTOL	010-BLAND	1002	52	TOTAL RB						C	
1-BRISTOL	010-BLAND	1008	52	CORK	1927/1986	RK	104	2	65	B	
1-BRISTOL	010-BLAND	1009	52	CORK	1927/1986	F	104	3	98	B	
1-BRISTOL	010-BLAND	1012	52	CORK	1939/1987	RK	104	3	98	B	
1-BRISTOL	010-BLAND	1013	52	CORK	1929	P	101	1	23	C	
1-BRISTOL	010-BLAND	1015	42	SINGLE	1941/1987	G/RK	104	4	170	B	
1-BRISTOL	010-BLAND	1026	61	TOTAL RB						C	
1-BRISTOL	010-BLAND	1027	61	TOTAL RB						C	
1-BRISTOL	010-BLAND	1028	61	TOTAL RB						C	
1-BRISTOL	010-BLAND	1029	61	TOTAL RB						C	
1-BRISTOL	010-BLAND	1030	61	TOTAL RB						C	
1-BRISTOL	010-BLAND	1031	61	TOTAL RB						C	
1-BRISTOL	010-BLAND	1032	61	TOTAL RB						C	
1-BRISTOL	010-BLAND	1033	61	TOTAL RB						C	
1-BRISTOL	010-BLAND	1036	42	CORK	1947	F	101	2	45	B	
1-BRISTOL	010-BLAND	1049	42	CORK	1941	G	101	1	21	B	
1-BRISTOL	010-BLAND	6015	606	SINGLE	1948/1989	F/RK	104	1	53	B	
1-BRISTOL	010-BLAND	6114	665	CORK	1927/1985	G/RK	104	3	113	B	
1-BRISTOL	013-BUCHANAN	1001	460	CORK	1939/1985	F/RK	104	3	98	B	
1-BRISTOL	013-BUCHANAN	1004	83	VERTICAL	1939	G	107	1	89	A	
1-BRISTOL	013-BUCHANAN	1012	80	CORK	c. 1932	G	101	1	21	B	
1-BRISTOL	013-BUCHANAN	1066	460	TOTAL RB						C	
1-BRISTOL	013-BUCHANAN	6015	608	TOTAL RB						C	
1-BRISTOL	025-DICKENSON	1005	72	TOTAL RB						C	
1-BRISTOL	025-DICKENSON	1015	83	SINGLE	1941/1988	F	104	6	255	B	
1-BRISTOL	025-DICKENSON	1023	72	SOLID	1924	G	101	1	22	B	
1-BRISTOL	025-DICKENSON	1024	72	SOLID	1932?	F	101	1	22	B	
1-BRISTOL	025-DICKENSON	1060	782	TOTAL RB						C	
1-BRISTOL	025-DICKENSON	6036	640	TOTAL RB						C	
1-BRISTOL	025-DICKENSON	6143	765	SOLID	1932?	F	101	1	23	B	
1-BRISTOL	038-GRAYSON	1001	16	CORK	1934/1987	G/RK	104	3	98	B	
1-BRISTOL	038-GRAYSON	1005	21	TOTAL RB						C	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
1-BRISTOL	038-GRAYSON	1006	21	TOTAL RB						C	
1-BRISTOL	038-GRAYSON	1011	58	TOTAL RB						C	
1-BRISTOL	038-GRAYSON	1014	58	CORK	1932	G	104	3	113	B	
1-BRISTOL	038-GRAYSON	1015	16	CORK	1934	F/RK	104	2	87	B	
1-BRISTOL	038-GRAYSON	1026	16	CORK	1934	P	101	1	23	C	
1-BRISTOL	038-GRAYSON	1034	701	CORK	1927	F/RK	104	1	48	B	
1-BRISTOL	038-GRAYSON	1037	58	SINGLE	1949	G	104	2	87	B	
1-BRISTOL	038-GRAYSON	1039	89	SINGLE	1943	G	104	1	43	B	
1-BRISTOL	038-GRAYSON	1049	21	TOTAL RB						C	
1-BRISTOL	038-GRAYSON	1057	21	CORK	1927	P	101	1	23	C	
1-BRISTOL	038-GRAYSON	1058	21	CORK	1927	P	101	1	23	C	
1-BRISTOL	038-GRAYSON	1069	274	CORK	1930	G/RK	101	1	23	B	
1-BRISTOL	038-GRAYSON	6246	658	TOTAL RB						C	
1-BRISTOL	052-LEE	1007	880	TOTAL RB						C	
1-BRISTOL	052-LEE	1011	58	CORK	1930	F/RK	104	1	33	B	
1-BRISTOL	052-LEE	1014	58	CORK	1931	F	104	3	84	B	
1-BRISTOL	052-LEE	1015	58	CORK	1934	F	104	4	132	B	
1-BRISTOL	052-LEE	1016	58	CORK	1934	F	104	2	66	B	
1-BRISTOL	052-LEE	1021	421	CORK	1932	F	104	1	38	B	
1-BRISTOL	052-LEE	1023	421	CORK	1935/1988	G/RK	104	2	56	B	
1-BRISTOL	052-LEE	1024	421	TOTAL RB						C	
1-BRISTOL	052-LEE	1057	58	TOTAL RB						C	
1-BRISTOL	052-LEE	1058	58	TOTAL RB						C	
1-BRISTOL	052-LEE	1059	58	TOTAL RB						C	
1-BRISTOL	052-LEE	1060	58	TOTAL RB						C	
1-BRISTOL	052-LEE	1062	ALT 58	CORK	1932	F	101	1	23	B	
1-BRISTOL	052-LEE	1068	352	TOTAL RB						C	
1-BRISTOL	052-LEE	1084	58	CORK	1932	F	101	1	23	B	
1-BRISTOL	052-LEE	1087	58	CORK	1932	F/RK	101	1	23	B	
1-BRISTOL	052-LEE	1089	58	CORK	1932	F/RK	101	1	23	B	
1-BRISTOL	052-LEE	1108	421	CORK	1932	G/RK	101	1	23	B	
1-BRISTOL	052-LEE	6041	645	TOTAL RB						C	
1-BRISTOL	052-LEE	6078	729	LOW CURB	1932	G	101	1	22	B	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
1-BRISTOL	052-LEE	6305	744	TOTAL RB						C	
1-BRISTOL	052-LEE	6326	814	SOLID	C. 1920	G	102	2	48	A	13
1-BRISTOL	052-LEE	6365	612	TOTAL RB						C	
1-BRISTOL	052-LEE	6459	647	SOLID	1932?	F	101	1	23	B	
1-BRISTOL	083-RUSSELL	1003	19	TOTAL RB						C	
1-BRISTOL	083-RUSSELL	1014	63	SINGLE	1942	G	104	1	45	B	
1-BRISTOL	083-RUSSELL	1018	63	TOTAL RB						C	
1-BRISTOL	083-RUSSELL	1037	80	TOTAL RB						C	
1-BRISTOL	083-RUSSELL	1041	58	TOTAL RB						C	
1-BRISTOL	083-RUSSELL	1042	58	SINGLE	1947/1992	RK	104	3	144	B	
1-BRISTOL	083-RUSSELL	1043	80	SINGLE	1948	P	104	2	87	B	
1-BRISTOL	083-RUSSELL	1072	71	TOTAL RB						C	
1-BRISTOL	083-RUSSELL	1073	71	TOTAL RB						C	
1-BRISTOL	083-RUSSELL	1074	71	TOTAL RB						C	
1-BRISTOL	083-RUSSELL	1075	71	TOTAL RB						C	
1-BRISTOL	083-RUSSELL	1097	80	TOTAL RB						C	
1-BRISTOL	083-RUSSELL	6001	841	CORK	1938	G/RK	104	1	28	B	
1-BRISTOL	083-RUSSELL	6122	608	TOTAL RB						C	
1-BRISTOL	083-RUSSELL	6226	658	CORK	1935	G	101	1	23	B	
1-BRISTOL	083-RUSSELL	6270	758	SOLID	1923	F	102	2	57	A	11
1-BRISTOL	083-RUSSELL	6273	770	SOLID	C. 1923	G	102	3	113	A	12
1-BRISTOL	083-RUSSELL	6274	770	TOTAL RB						C	
1-BRISTOL	083-RUSSELL	6319	616	TOTAL RB						C	
1-BRISTOL	084-SCOTT	1004	58	TOTAL RB						C	
1-BRISTOL	084-SCOTT	1005	58	CORK	1930	F	104	1	44	B	
1-BRISTOL	084-SCOTT	1006	58	CORK	1930	G	104	1	44	B	
1-BRISTOL	084-SCOTT	1009	58	CORK	1930	F	104	1	43	B	
1-BRISTOL	084-SCOTT	1016	23	TOTAL RB						C	
1-BRISTOL	084-SCOTT	1061	23	NEAR-TOTAL RB						C	
1-BRISTOL	084-SCOTT	1064	58	CORK	1932	G	101	1	23	B	
1-BRISTOL	084-SCOTT	1089	659	TOTAL RB						C	
1-BRISTOL	084-SCOTT	1100	71	CORK	1932	G	101	1	23	B	
1-BRISTOL	084-SCOTT	6057	637	LOWWATER	1932	F	101	2	34	B	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
1-BRISTOL	084-SCOTT	6366	619	CORK	1933	G	104	2	56	B	
1-BRISTOL	084-SCOTT	6401	649	TOTAL RB						C	
1-BRISTOL	084-SCOTT	6600	871	CORK	1932	P	101	1	23	B	
1-BRISTOL	086-SMYTH	1001	11	CORK	1936/1987	G	104	2	66	B	
1-BRISTOL	086-SMYTH	1002	11	CORK	1936/1985	F	104	5	170	B	
1-BRISTOL	086-SMYTH	1004	11	TOTAL RB						C	
1-BRISTOL	086-SMYTH	1008	11	VERTICAL	1932/1986	G	104	4	196	A	16
1-BRISTOL	086-SMYTH	1009	11	CORK	1931/1985	G	104	5	175	B	
1-BRISTOL	086-SMYTH	1011	11	CORK	1930/1985	G	104	5	232	B	
1-BRISTOL	086-SMYTH	1019	16	CORK	1933	F/RK	104	1	43	B	
1-BRISTOL	086-SMYTH	1020	16	CORK	1933	F	104	1	44	B	
1-BRISTOL	086-SMYTH	1021	16	CORK	1933	F	104	1	48	B	
1-BRISTOL	086-SMYTH	1022	16	CORK	1933	G	104	1	38	B	
1-BRISTOL	086-SMYTH	1030	11	CORK	1932	F	101	1	22	B	
1-BRISTOL	086-SMYTH	1031	11	CORK	1932	G	101	1	22	B	
1-BRISTOL	086-SMYTH	1037	42	TOTAL RB						C	
1-BRISTOL	086-SMYTH	1046	16	TOTAL RB						C	
1-BRISTOL	086-SMYTH	1061	42	TOTAL RB						C	
1-BRISTOL	086-SMYTH	1078	16	CURB/GUARDRAIL	1932	G	101	1	23	B	
1-BRISTOL	086-SMYTH	1901	11	CORK	1932	P	101	1	22	B	
1-BRISTOL	086-SMYTH	6015	603	CURB/GUARDRAILS	1932	F	101	1	26	B	
1-BRISTOL	086-SMYTH	6046	637	SOLID	1932/1988	F/RK	101	1	22	B	
1-BRISTOL	086-SMYTH	6069	659	TOTAL RB						C	
1-BRISTOL	086-SMYTH	6076	670	TOTAL RB						C	
1-BRISTOL	086-SMYTH	6096	695	TOTAL RB						C	
1-BRISTOL	086-SMYTH	6108	670	GUARDRAIL	1931	G	101	3	56	B	
1-BRISTOL	086-SMYTH	6197	631	LOWWATER	1932	G	101	1	69	B	
1-BRISTOL	086-SMYTH	6242	731	SOLID	1910	F	101	2	30	A	
1-BRISTOL	086-SMYTH	6252	670	NEAR-TOTAL RB						C	
1-BRISTOL	086-SMYTH	6272	689	TOTAL RB						C	
1-BRISTOL	086-SMYTH	6344	600	CURB	1932	G	101	1	22	B	
1-BRISTOL	086-SMYTH	6352	610	TOTAL RB						C	
1-BRISTOL	086-SMYTH	6366	659	CURB	1932	G	101	1	20	B	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
1-BRISTOL	086-SMYTH	6370	723	CURB	1932	G	101	1	23	B	
1-BRISTOL	086-SMYTH	6377	744	TOTAL RB						C	
1-BRISTOL	092-TAZEWEELL	1002	16	TOTAL RB						C	
1-BRISTOL	092-TAZEWEELL	1007	460	SINGLE	1941/1986	F/A	104	2	85	B	
1-BRISTOL	092-TAZEWEELL	1011	16	CORK	1935	G	104	1	28	B	
1-BRISTOL	092-TAZEWEELL	1012	16	CORK	1928	G/RK	104	1	28	B	
1-BRISTOL	092-TAZEWEELL	1019	19	CORK	1936/1985	G/RK	104	6	205	B	
1-BRISTOL	092-TAZEWEELL	1020	19	TOTAL RB						C	
1-BRISTOL	092-TAZEWEELL	1021	19	TOTAL RB						C	
1-BRISTOL	092-TAZEWEELL	1023	19	TOTAL RB						C	
1-BRISTOL	092-TAZEWEELL	1025	19	CORK	1939	F/RK	101	2	45	B	
1-BRISTOL	092-TAZEWEELL	1046	102	CORK	1930/1987	G	104	2	55	B	
1-BRISTOL	092-TAZEWEELL	1057	67	TOTAL RB						C	
1-BRISTOL	092-TAZEWEELL	1058	67	TOTAL RB						C	
1-BRISTOL	092-TAZEWEELL	6010	609	SOLID	1932?	G	101	1	23	B	
1-BRISTOL	092-TAZEWEELL	6011	609	SOLID	1932?	G/A	101	1	22	B	
1-BRISTOL	092-TAZEWEELL	6012	609	SOLID	1932?	G	101	1	22	B	
1-BRISTOL	092-TAZEWEELL	6029	624	TOTAL RB						C	
1-BRISTOL	092-TAZEWEELL	6077	747	SOLID	1920	F	101	1	32	A	10
1-BRISTOL	092-TAZEWEELL	6078	747	LOW SOLID	1921	F/RK	101	1	33	B	
1-BRISTOL	092-TAZEWEELL	6129	744	CURB	1932	F/RK	101	3	53	B	
1-BRISTOL	092-TAZEWEELL	6225	747	SOLID	1919	F/RK	101	1	25	A	7
1-BRISTOL	092-TAZEWEELL	6232	770	SOLID	c. 1925/1987	G	102	4	150	A	12
1-BRISTOL	092-TAZEWEELL	6246	1103	TOTAL RB						C	
1-BRISTOL	092-TAZEWEELL	6265	637	SOLID	1923	F	102	1	39	A	11
1-BRISTOL	092-TAZEWEELL	6267	637	TOTAL RB						C	
1-BRISTOL	092-TAZEWEELL	6277	659	TOTAL RB						C	
1-BRISTOL	095-WASHINGTON	1001	11	CORK	1934	G	104	1	28	B	
1-BRISTOL	095-WASHINGTON	1006	11	CORK	1939	G	101	2	34	B	
1-BRISTOL	095-WASHINGTON	1009	11	CORK	1932	G	101	1	22	B	
1-BRISTOL	095-WASHINGTON	1012	19	SINGLE	1947	F/A	101	3	54	B	
1-BRISTOL	095-WASHINGTON	1014	11	CORK	1932	F	101	1	23	B	
1-BRISTOL	095-WASHINGTON	1029	58	CORK	1926	G	104	3	83	B	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
1-BRISTOL	095-WASHINGTON	1030	19	CORK/SINGLE	1932/1942	G/A	101	1	23	B	
1-BRISTOL	095-WASHINGTON	1031	19	TOTAL RB						C	
1-BRISTOL	095-WASHINGTON	1033	19	CORK	1933	F	101	1	23	B	
1-BRISTOL	095-WASHINGTON	1048	80	TOTAL RB						C	
1-BRISTOL	095-WASHINGTON	1051	91	TOTAL RB						C	
1-BRISTOL	095-WASHINGTON	1114	80	TOTAL RB						C	
1-BRISTOL	095-WASHINGTON	6033	689	TOTAL RB						C	
1-BRISTOL	095-WASHINGTON	6065	694	TOTAL RB						C	
1-BRISTOL	095-WASHINGTON	6073	706	SOLID	1932?	G	101	1	22	B	
1-BRISTOL	095-WASHINGTON	6083	726	TOTAL RB						C	
1-BRISTOL	095-WASHINGTON	6089	745	SOLID	1932?	F	101	2	35	B	
1-BRISTOL	095-WASHINGTON	6334	803	TOTAL RB						C	
1-BRISTOL	095-WASHINGTON	6336	803	TOTAL RB						C	
1-BRISTOL	095-WASHINGTON	6399	647	TOTAL RB						C	
1-BRISTOL	095-WASHINGTON	6440	876	CORK	1932/1987	G	104	2	55	B	
1-BRISTOL	097-WISE	1002	23	CORK	1937/1987	F	104	3	114	B	
1-BRISTOL	097-WISE	1003	23	TOTAL RB						C	
1-BRISTOL	097-WISE	1012	23	TOTAL RB						C	
1-BRISTOL	097-WISE	1029	58	CORK	1925	F/RK	104	2	46	B	
1-BRISTOL	097-WISE	1037	72	CORK	1931	F	104	1	48	B	
1-BRISTOL	097-WISE	1038	72	TOTAL RB						C	
1-BRISTOL	097-WISE	1039	72	CORK	1927/1987	F	104	3	84	B	
1-BRISTOL	097-WISE	1050	58	SINGLE	1948	F	104	3	113	B	
1-BRISTOL	097-WISE	1052	58	CORK	1932	F	101	1	23	B	
1-BRISTOL	097-WISE	1085	68	TOTAL RB						C	
1-BRISTOL	097-WISE	6008	609	TOTAL RB						C	
1-BRISTOL	097-WISE	6019	612	SOLID	1916	P	103	1	41	B	
1-BRISTOL	097-WISE	6072	683	TOTAL RB						C	
1-BRISTOL	097-WISE	6078	686	TOTAL RB						C	
1-BRISTOL	097-WISE	6128	633	SOLID	1921	G	102	1	34	A	
1-BRISTOL	097-WISE	6130	633	TOTAL RB						C	
1-BRISTOL	097-WISE	6137	610	TOTAL RB						C	
1-BRISTOL	097-WISE	6139	610	TOTAL RB						C	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
1-BRISTOL	097-WISE	6141	613	SOLID	1915	G/RK	101	1	22	A	7
1-BRISTOL	097-WISE	6159	646	TOTAL RB						C	
1-BRISTOL	097-WISE	6227	657	TOTAL RB						C	
1-BRISTOL	098-WYTHE	1010	F-044	CORK	1922	G/A	101	1	23	B	
1-BRISTOL	098-WYTHE	1013	21	CORK	1935/1985	G/A	104	2	86	B	
1-BRISTOL	098-WYTHE	1014	52	TOTAL RB						C	
1-BRISTOL	098-WYTHE	1052	52	CORK	1930	G	101	1	23	B	
1-BRISTOL	098-WYTHE	1053	52	CORK	1930	G/RK	101	1	22	B	
1-BRISTOL	098-WYTHE	1066	21	CORK	1932	F/RK	101	1	23	B	
1-BRISTOL	098-WYTHE	1075	21	CORK	1933	P	101	1	23	B	
1-BRISTOL	098-WYTHE	1093	52	TOTAL RB						C	
1-BRISTOL	098-WYTHE	1105	100	CORK	1942	F	101	1	22	B	
1-BRISTOL	098-WYTHE	6006	607	SINGLE	1949	G	104	2	66	B	
1-BRISTOL	098-WYTHE	6092	607	CORK	1932	G	101	1	23	B	
1-BRISTOL	098-WYTHE	6093	607	CORK	1932	G	101	1	23	B	
1-BRISTOL	098-WYTHE	6108	619	CORK	1932	G	101	1	22	B	
1-BRISTOL	098-WYTHE	6116	630	CORK	1932	G	101	1	23	B	
1-BRISTOL	098-WYTHE	6156	684	TOTAL RB						C	
1-BRISTOL	098-WYTHE	6167	701	SOLID	1932?	G	101	1	23	B	
1-BRISTOL	101-BIG STONE GAP	1801	23	CORK	1934	F/RK	104	3	98	B	
1-BRISTOL	101-BIG STONE GAP	1802	58	CORK	1934	F/RK	104	3	128	B	
1-BRISTOL	102-BRISTOL	1802	GOODSON STREET	METAL	1929	G	104	1	44	B	
1-BRISTOL	102-BRISTOL	1804	MARY STREET	VERTICAL	1918	F	207	5	232	A	20
1-BRISTOL	102-BRISTOL	1809	PIEDMONT STREET	I-BEAM	1925	G	104	1	42	B	
1-BRISTOL	102-BRISTOL	1820	11	CORK	1939	G/F	104	2	74	B	
1-BRISTOL	102-BRISTOL	8001	FAIRVIEW STREET	SOLID	1930	G	104	1	42	A	10
1-BRISTOL	102-BRISTOL	8002	RANDAL STREET	SOLID	1930/1978	A	104	1	48	B	
1-BRISTOL	102-BRISTOL	8010	OAK STREET	SOLID	1925	F	102	2	80	A	13
1-BRISTOL	102-BRISTOL	8015	MARY STREET	SOLID	1930	G	104	1	51	A	10
1-BRISTOL	102-BRISTOL	8017		TOTAL RB						C	
1-BRISTOL	102-BRISTOL	8019	MOORE STREET	PIPE	1932	G	101	1	44	B	
1-BRISTOL	102-BRISTOL	8020	LEE STREET	PIPE	1932	G	101	1	44	B	
1-BRISTOL	102-BRISTOL	8021	WASHINGTON STREET	PIPE	1932	G	101	1	39	B	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
1-BRISTOL	102-BRISTOL	8022	VIRGINIA STREET	PIPE	1932	P	104	1	45	C	
1-BRISTOL	102-BRISTOL	8025	McCHESNEY STREET ?	PIPE	1932	G/A	101	1	48	B	
1-BRISTOL	102-BRISTOL	8027	ELM STREET	CONCRETE/PIPE	1930	A	104	1	52	A	
1-BRISTOL	119-MARION	1800	11	VERTICAL/NJB	1941/1985	F/A	107/104	1	94	B	
1-BRISTOL	119-MARION	1801	11	NONE	1935	G	104	1	45	B	
1-BRISTOL	119-MARION	1802	16	VERTICAL/METAL	1941/1971	G	104	1	33	B	
1-BRISTOL	119-MARION	8000	BAUGHMAN AVE	TOTAL RB						C	
1-BRISTOL	119-MARION	8002	SHANNON HILL RD	TOTAL RB						C	
1-BRISTOL	119-MARION	8006	LEE ST	PIPE/GUARDRAIL	1932	F	101	1	28	B	
1-BRISTOL	140-ABINGDON	1004	11	CORK	1935/1987	G	104	5	188	B	
1-BRISTOL	140-ABINGDON	1050	19	TOTAL RB						C	
1-BRISTOL	140-ABINGDON	8000	"A" STREET	GUARDRAILS	1932	F	101	1	22	B	
1-BRISTOL	143-BLUEFIELD	1801	19	TOTAL RB						C	
1-BRISTOL	146-NORTON	8000	MAIN AVE	SOLID	1932	F	101	1	23	B	
1-BRISTOL	148-RICHLANDS	1800	67	TOTAL RB						C	
1-BRISTOL	158-TAZEWELL	1800	16	CORK	1928/1963	P/RK	104	2	65	C	
1-BRISTOL	158-TAZEWELL	1804	19 BUS.	CORK	1937	P	104	2	65	C	
1-BRISTOL	158-TAZEWELL	1807	61	TOTAL RB						C	
1-BRISTOL	158-TAZEWELL	1808	61	TOTAL RB						C	
1-BRISTOL	158-TAZEWELL	8001	PISGAH ROAD	PIPE	1932	P/RK	101	1	32	C	
1-BRISTOL	158-TAZEWELL	8003	BENBOLT AVENUE	SOLID	c. 1925	F	102	1	34	A	11
1-BRISTOL	252-LEBANON	1004	19	CORK	1936	G	104	4	150	B	
1-BRISTOL	252-LEBANON	1006	19	TOTAL RB						C	
1-BRISTOL	252-LEBANON	6079	1036	SOLID	1923	F	102	2	66	A	11
1-BRISTOL	252-LEBANON	6178	841	CORK	1925/1939	F/A/RK	104	1	40	B	
2-SALEM	009-BEDFORD	1003	24	CORK	1940	F	104	2	75	B	
2-SALEM	009-BEDFORD	1005	24	CORK	1939	F	104	3	84	B	
2-SALEM	009-BEDFORD	1013	122	CORK	1939	F	104	2	65	B	
2-SALEM	009-BEDFORD	1014	122	CORK	1938	F	104	2	96	B	
2-SALEM	009-BEDFORD	1016	122	CORK	1937	F	104	3	98	B	
2-SALEM	009-BEDFORD	1020	221	TOTAL RB						C	
2-SALEM	009-BEDFORD	1024	221	CORK	1928/1957	G	104	3	113	B	
2-SALEM	009-BEDFORD	1029	501	CORK	1926	G	104	4	125	B	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
2-SALEM	009-BEDFORD	1030	501	CORK	1931	G	104	1	43	B	
2-SALEM	009-BEDFORD	1035	460	SINGLE	1948	F	104	3	128	B	
2-SALEM	009-BEDFORD	1038	24	SINGLE	1949	G	104	3	113	B	
2-SALEM	009-BEDFORD	6060	643	CORK	1932	F	101	3	42	B	
2-SALEM	009-BEDFORD	6069	644	LOWWATER	1932	P	101	7	72	C	
2-SALEM	009-BEDFORD	6074	647	SOLID	1920?	G	102	1	35	A	
2-SALEM	009-BEDFORD	6107	691	LOWWATER	1932	F	101	3	67	B	
2-SALEM	009-BEDFORD	6295	840	CORK	1932	G	101	1	23	B	
2-SALEM	011-BOTETOURT	1001	F-55	CORK	1931	G	104	1	43	B	
2-SALEM	011-BOTETOURT	1002	F-54	CORK	1930	G	104	1	43	B	
2-SALEM	011-BOTETOURT	1005	11	CORK	1925/1938	P	101	1	23	C	
2-SALEM	011-BOTETOURT	1006	11	CORK	1925/1938	P	201	2	44	C	
2-SALEM	011-BOTETOURT	1007	11	CORK	1923/1938	P	104	1	33	C	
2-SALEM	011-BOTETOURT	1010	11	CORK	1924/1938	PRK	104	1		C	
2-SALEM	011-BOTETOURT	1011	11	CORK	1923/1938	P	101	3	62	C	
2-SALEM	011-BOTETOURT	1012	11	CORK	1923/1974	PRK	104	3	83	C	
2-SALEM	011-BOTETOURT	1028	221	TOTAL RB						C	
2-SALEM	011-BOTETOURT	1030	11	CORK	1932	P	101	1	23	C	
2-SALEM	011-BOTETOURT	1032	11	TOTAL RB						C	
2-SALEM	011-BOTETOURT	1035	11	CORK	1932	P	101	1	23	C	
2-SALEM	011-BOTETOURT	1036	11	CORK	1932	F	101	1	23	B	
2-SALEM	011-BOTETOURT	1072	220	CORK	1932	F/RK	101	1	22	B	
2-SALEM	011-BOTETOURT	1099	221	CORK	1932	G	101	1	22	B	
2-SALEM	011-BOTETOURT	1105	11	CORK	1932/1934	G	101	1	20	B	
2-SALEM	011-BOTETOURT	1106	11	TOTAL RB						C	
2-SALEM	011-BOTETOURT	6141	738	CORK	1921/1969	G	101	3	62	B	
2-SALEM	011-BOTETOURT	6206	640	LOW SOLID	1932	PRK	101	1	21	B	
2-SALEM	011-BOTETOURT	6274	630	VERTICAL	1932	G	101	1	21	B	
2-SALEM	011-BOTETOURT	6323	655	LOW SOLID	1932	F	101	1	22	B	
2-SALEM	017-CARROLL	1006	58	CORK	1915/1939	F	104	3	120	B	
2-SALEM	017-CARROLL	1007	58	TOTAL RB						C	
2-SALEM	017-CARROLL	1010	94	CORK	1938	G	104	3	113	B	
2-SALEM	017-CARROLL	1012	100	SINGLE	1942	G	104	1	48	B	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
2-SALEM	017-CARROLL	1013	100	VERTICAL	1947	G	101	2	45	B	
2-SALEM	017-CARROLL	1018	52	TOTAL RB						C	
2-SALEM	017-CARROLL	1019	52	TOTAL RB						C	
2-SALEM	017-CARROLL	1032	52	TOTAL RB						C	
2-SALEM	017-CARROLL	1037	58	TOTAL RB						C	
2-SALEM	017-CARROLL	1058	221	TOTAL RB						C	
2-SALEM	017-CARROLL	6003	602	CORK	1937	G	101	1	26	A	13
2-SALEM	017-CARROLL	6014	620	SINGLE	1948	G	104	1	44	B	
2-SALEM	017-CARROLL	6193	872	CORK	1925	F	104	1	33	B	
2-SALEM	017-CARROLL	6263	887	SINGLE	1941	G	104	1	43	B	
2-SALEM	022-CRAIG	1004	42	CORK	1939	G	104	1	43	B	
2-SALEM	022-CRAIG	1005	42	SINGLE	1949	G	104	1	44	B	
2-SALEM	022-CRAIG	1011	311	CORK	1927	G	101	2	45	B	
2-SALEM	022-CRAIG	1026	42	CORK	1945	F	101	1	23	B	
2-SALEM	022-CRAIG	1030	42	CORK	1949	F	101	1	22	B	
2-SALEM	022-CRAIG	1031	42	CORK	1942/1954	G	101	1	23	B	
2-SALEM	022-CRAIG	1033	311	TOTAL RB						C	
2-SALEM	022-CRAIG	1036	311	CORK	1934	F	101	1	22	B	
2-SALEM	022-CRAIG	6046	615	SINGLE	1948	G	104	1	34	B	
2-SALEM	031-FLOYD	1001	8	CORK	1936	G	104	2	65	B	
2-SALEM	031-FLOYD	1015	221	CORK	1938	G	104	1	28	B	
2-SALEM	031-FLOYD	1016	221	CORK	1941	G	104	1	41	B	
2-SALEM	031-FLOYD	1017	221	CORK	1939	G	104	2	96	B	
2-SALEM	031-FLOYD	1018	221	CORK	1938	G	104	1	43	B	
2-SALEM	031-FLOYD	1019	221	CORK	1938	F	104	3	98	B	
2-SALEM	031-FLOYD	1020	221	TOTAL RB						C	
2-SALEM	031-FLOYD	1021	221	CORK	1938	G	104	3	113	B	
2-SALEM	031-FLOYD	1023	221	CORK	1936	G	104	3	128	B	
2-SALEM	031-FLOYD	1024	221	CORK	1936	G	104	1	33	B	
2-SALEM	031-FLOYD	1025	221	CORK	1936	G	104	2	65	B	
2-SALEM	031-FLOYD	1026	221	CORK	1936	G	104	3	113	B	
2-SALEM	031-FLOYD	1027	221	CORK	1935	F	104	1	43	B	
2-SALEM	031-FLOYD	1030	8	TOTAL RB						C	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
2-SALEM	031-FLOYD	1043	58	TOTAL RB						C	
2-SALEM	031-FLOYD	1050	221	TOTAL RB						C	
2-SALEM	031-FLOYD	1062	221	TOTAL RB						C	
2-SALEM	031-FLOYD	1064	221	TOTAL RB						C	
2-SALEM	033-FRANKLIN	1007	40	CORK	1932	G	101	1	20	B	
2-SALEM	033-FRANKLIN	1019	122	SINGLE	1942	F	104	4	192	B	
2-SALEM	033-FRANKLIN	1027	220	SINGLE	1929/1952	F	104	1	33	B	
2-SALEM	033-FRANKLIN	1028	220	SINGLE	1929/1952	G	104	1	43	B	
2-SALEM	033-FRANKLIN	1034	122	SINGLE	1946	G	104	6	255	B	
2-SALEM	033-FRANKLIN	1069	220	CORK	1929/1952	G	101	1	22	B	
2-SALEM	033-FRANKLIN	1070	220	CORK	1929/1952	G	101	1	20	B	
2-SALEM	033-FRANKLIN	1901	40	CORK	1937	G	104	2	65	B	
2-SALEM	033-FRANKLIN	6211	919	TOTAL RB						C	
2-SALEM	033-FRANKLIN	6212	919	TOTAL RB						C	
2-SALEM	033-FRANKLIN	6451	707	TOTAL RB						C	
2-SALEM	033-FRANKLIN	6499	756	TOTAL RB						C	
2-SALEM	035-GILES	1012	42	SINGLE	1941	F	104	2	85	B	
2-SALEM	035-GILES	1023	61	LOW SOLID/PIPE	1927	P	101	2	42	C	
2-SALEM	035-GILES	1051	42	CORK	1937	F	101	1	23	B	
2-SALEM	035-GILES	1929	219	CORK	1931	G	104	3	98	B	
2-SALEM	035-GILES	6049	675	PIPE	1932	F	104	5	140	B	
2-SALEM	035-GILES	6052	700	SINGLE	1949	G	104	3	126	B	
2-SALEM	035-GILES	6069	760	LOWWATER	1932	F	101	8	98	B	
2-SALEM	035-GILES	6070	759	LOWWATER	1932	F	101	5	61	B	
2-SALEM	035-GILES	6192	778	SOLID	1924	P	102	3	129	C	
2-SALEM	035-GILES	6215	219	VERTICAL	1930/1947	G	104	4	130	B	
2-SALEM	044-HENRY	1005	57	TOTAL RB						C	
2-SALEM	044-HENRY	1020	108	TOTAL RB						C	
2-SALEM	044-HENRY	1021	108	TOTAL RB						C	
2-SALEM	044-HENRY	1022	220	CORK	1939	F	104	4	170	B	
2-SALEM	044-HENRY	1023	220	TOTAL RB						C	
2-SALEM	044-HENRY	1024	220	TOTAL RB						C	
2-SALEM	044-HENRY	1026	220	TOTAL RB						C	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
2-SALEM	044-HENRY	1027	220	TOTAL RB						C	
2-SALEM	044-HENRY	6094	754	TOTAL RB						C	
2-SALEM	060-MONTGOMERY	1006	11	CORK	1926	G/RK	104	3	144	B	
2-SALEM	060-MONTGOMERY	1008	11	SINGLE	1925/1943	F	104	2	45	B	
2-SALEM	060-MONTGOMERY	1018	114	SINGLE	1942	G	104	4	181	B	
2-SALEM	060-MONTGOMERY	1036	11	TOTAL RB						C	
2-SALEM	060-MONTGOMERY	1039	11	TOTAL RB						C	
2-SALEM	060-MONTGOMERY	1041	11	TOTAL RB						C	
2-SALEM	060-MONTGOMERY	6011	604	CORK	1932	G	101	1	23	B	
2-SALEM	060-MONTGOMERY	6012	604	CORK	1932	F	101	1	23	B	
2-SALEM	060-MONTGOMERY	6023	615	TOTAL RB						C	
2-SALEM	060-MONTGOMERY	6141	745	CORK	1926	G	101	2	45	B	
2-SALEM	060-MONTGOMERY	6236	15	TOTAL RB						C	
2-SALEM	060-MONTGOMERY	6314	777	CORK	1932	F/RK	101	1	22	B	
2-SALEM	070-PATRICK	1001	8	SINGLE	1941	G	104	3	113	B	
2-SALEM	070-PATRICK	1002	8	CORK	1932	G/RK	104	1	33	B	
2-SALEM	070-PATRICK	1003	8	CORK	1932	G	104	2	67	B	
2-SALEM	070-PATRICK	1004	8	CORK	1932	G	104	2	65	B	
2-SALEM	070-PATRICK	1005	8	CORK	1932	G	104	1	33	B	
2-SALEM	070-PATRICK	1014	8	TOTAL RB						C	
2-SALEM	070-PATRICK	1016	58	CORK	1928	G	104	1	38	B	
2-SALEM	070-PATRICK	1017	58	CORK	1928	F	104	1	38	B	
2-SALEM	070-PATRICK	1020	58	CORK	1928	G	104	3	98	B	
2-SALEM	070-PATRICK	1022	103	CORK	1941	G	104	2	65	B	
2-SALEM	070-PATRICK	1025	103	CORK	1939	G/RK	104	2	65	B	
2-SALEM	070-PATRICK	1026	103	CORK	1939	G	104	3	98	B	
2-SALEM	070-PATRICK	1027	103	SINGLE	1940	F	104	4	153	B	
2-SALEM	070-PATRICK	1037	40	SINGLE	1947	G	104	3	102	B	
2-SALEM	070-PATRICK	1042	40	SINGLE	1948	G	104	1	56	B	
2-SALEM	070-PATRICK	1058	103	CORK	1939	G	101	1	22	B	
2-SALEM	070-PATRICK	1061	103	CORK	1939	G	101	1	22	B	
2-SALEM	070-PATRICK	1066	103	CORK	1940	G	101	1	21	B	
2-SALEM	070-PATRICK	1082	58	CORK	1926	F	101	1	23	B	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
2-SALEM	070-PATRICK	1083	58	TOTAL RB							
2-SALEM	070-PATRICK	1085	58	CORK	1926	F	101	1	23	B	
2-SALEM	070-PATRICK	6028	626	TOTAL RB							
2-SALEM	070-PATRICK	6144	773	SINGLE	1948	G/RK	104	3	131	B	
2-SALEM	070-PATRICK	6148	773	SINGLE	1948	G	104	2	65	B	
2-SALEM	070-PATRICK	6251	765	SOLID	c. 1920	G	102	3	98	A	13
2-SALEM	070-PATRICK	6308	832	CORK	1924	G	104	3	98	B	
2-SALEM	077-PULASKI	1002	11	TOTAL RB							
2-SALEM	077-PULASKI	1007	11	TOTAL RB							
2-SALEM	077-PULASKI	1013	F-047	CORK	1939/1955	F/RK	104	5	213	B	
2-SALEM	077-PULASKI	1015	100	CORK	1936	P	104	3	128	B	
2-SALEM	077-PULASKI	1017	F-047	SOLID	1924	G	201	2	32	B	
2-SALEM	077-PULASKI	1026	100	CORK	1940	F	101	1	23	B	
2-SALEM	077-PULASKI	1027	100	CORK	1940	F	101	1	23	B	
2-SALEM	077-PULASKI	6013	617	LOW SOLID	1932	G	101	1	22	B	
2-SALEM	077-PULASKI	6023	1109	CURB	1932	G	101	1	22	B	
2-SALEM	077-PULASKI	6058	747	CORK	1934	G	104	3	97	B	
2-SALEM	077-PULASKI	6158	752	TOTAL RB							
2-SALEM	077-PULASKI	6180	736	CORK	1932	G	201	3	34	A	10
2-SALEM	077-PULASKI	6188	607	TOTAL RB							
2-SALEM	080-ROANOKE	1001	11	VERTICAL	1947	G	104	2	86	B	
2-SALEM	080-ROANOKE	1008	11	TOTAL RB							
2-SALEM	080-ROANOKE	1009	11	SINGLE	1922/1946	G	104	2	55	B	
2-SALEM	080-ROANOKE	1010	24	CORK	1937	F	104	1	38	B	
2-SALEM	080-ROANOKE	1023	221	CORK	1931	F	104	1	24	B	
2-SALEM	080-ROANOKE	1037	220	SINGLE	1947	G	104	1	33	B	
2-SALEM	080-ROANOKE	1038	220	SINGLE	1947	F	104	1	33	B	
2-SALEM	080-ROANOKE	1039	220	SINGLE	1947/1990	G	104	4	170	B	
2-SALEM	080-ROANOKE	1069	221	TOTAL RB							
2-SALEM	080-ROANOKE	1093	221	CORK	1932	F	101	1	22	B	
2-SALEM	080-ROANOKE	1098	220	TOTAL RB							
2-SALEM	080-ROANOKE	1105	221	CORK/CULVERT	1932	G/A	101	1	22	B	
2-SALEM	080-ROANOKE	6016	612	SOLID	1921	G	103	1	36	A	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
2-SALEM	080-ROANOKE	6099	779	SOLID	1926	F	101	2	37	B	
2-SALEM	080-ROANOKE	6119	863	SOLID	1920	P	102	4	132	C	
2-SALEM	080-ROANOKE	6121	864	SOLID	1920	G	102	3	83	B	
2-SALEM	080-ROANOKE	6144	864	CORK	1920/C. 1935	G/A	101	1	22	B	
2-SALEM	080-ROANOKE	6165	1662	SOLID	1932	G	101	1	23	B	
2-SALEM	080-ROANOKE	6244	766	CORK/SOLID	1922	F/A	101	1	23	B	
2-SALEM	080-ROANOKE	6274	1663	CORK	1930	P	101	2	38	B	
2-SALEM	080-ROANOKE	6275	603	CORK	1921/1940	F	201	2	44	B	
2-SALEM	113-GALAX	8005	GLENDAL RD	SINGLE	1941	F	104	1	33	B	
2-SALEM	120-MARTINSVILLE	1802	58	SOLID	1934	F	104	3	154	A	14
2-SALEM	125-PULASKI	1804	11	CORK/PIPE	1936	A	101	1	21	B	
2-SALEM	125-PULASKI	1805	11	SPECIAL	1933	G	104	3	101	A	
2-SALEM	125-PULASKI	1806	11	SOLID/PIPE	1932	G/A	101	1	23	B	
2-SALEM	125-PULASKI	8002	RANDOLPH AVE	CORK	1933	F	104	3	104	A	
2-SALEM	125-PULASKI	8003	JEFFERSON AVE	SOLID	1933	G	104	3	102	A	
2-SALEM	126-RADFORD	1010	11	CORK	1936	P	104	4	130	B	
2-SALEM	128-ROANOKE	1810	460	TOTAL RB						C	
2-SALEM	128-ROANOKE	1821	221	CORK	1938	F	101	1	23	B	
2-SALEM	128-ROANOKE	1828	116	CORK	1932	G/RK	101	1	23	B	
2-SALEM	128-ROANOKE	1832	460	TOTAL RB						C	
2-SALEM	128-ROANOKE	1838	11	TOTAL RB						C	
2-SALEM	128-ROANOKE	1839	11	CORK	1932	G/RK	101	1	21	B	
2-SALEM	128-ROANOKE	8006	GILMER ST.	NONE	1932	G	101	1	41	B	
2-SALEM	128-ROANOKE	8012	FINCASTLE TURNPIKE	SINGLE	1949	G	104	3	113	B	
2-SALEM	128-ROANOKE	8024	BRANDON AVE.	SOLID	1932	F	101	1	22	B	
2-SALEM	128-ROANOKE	8041	5TH STREET	NEAR-TOTAL RB						C	
2-SALEM	128-ROANOKE	8048	PROSPECT AVE.	SOLID	1932	P	104	1	32	B	
2-SALEM	128-ROANOKE	8054	WISE STREET	LOWWATER	1932	G	101	3	75	B	
2-SALEM	128-ROANOKE	8055	PERSINGER ROAD	SOLID	1932	G/RK/A	101	1	20	B	
2-SALEM	128-ROANOKE	8056	THOMASON ST.	PIPE	1932	F	101	1	20	B	
2-SALEM	129-SALEM	1802	11	TOTAL RB						C	
2-SALEM	129-SALEM	1805	11	CORK	1932/1948	G	107	1	56	A	
2-SALEM	129-SALEM	1815	460	VERTICAL	1939	G	104	2	96	B	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
2-SALEM	129-SALEM	1821	419	VERTICAL	1946	F	204	3	149	B	
2-SALEM	129-SALEM	8004	BURWELL STREET	PIPE	1932	G	101	1	20	B	
2-SALEM	149-VINTON	8001	WALNUT STREET	LOWWATER	1932	G	101	2	53	B	
2-SALEM	154-CHRISTIANSBURG	1802	11	SINGLE	1927	P/A	101	1	25	B	
2-SALEM	154-CHRISTIANSBURG	1803	11	TOTAL RB						C	
2-SALEM	154-CHRISTIANSBURG	1805	11	TOTAL RB						C	
3-LYNCHBURG	005-AMHERST	1002	29	CORK	1940/1973	F/RK	104	1	33	B	
3-LYNCHBURG	005-AMHERST	1005	60	TOTAL RB						C	
3-LYNCHBURG	005-AMHERST	1006	60	TOTAL RB						C	
3-LYNCHBURG	005-AMHERST	1008	60	TOTAL RB						C	
3-LYNCHBURG	005-AMHERST	1009	60	CORK	1932	P	104	3	98	B	
3-LYNCHBURG	005-AMHERST	1010	60	CORK	1932	P/RK	104	1	33	B	
3-LYNCHBURG	005-AMHERST	1011	60	CORK	1933/1974	F	104	3	98	B	
3-LYNCHBURG	005-AMHERST	1012	60	TOTAL RB						C	
3-LYNCHBURG	005-AMHERST	1016	130	SINGLE	1941/1974	G	104	3	98	B	
3-LYNCHBURG	005-AMHERST	1020	29	SINGLE	1947/1977	G	104	1	48	B	
3-LYNCHBURG	005-AMHERST	1027	130	CORK	1928/1981	F	104	1	43	B	
3-LYNCHBURG	005-AMHERST	6023	622	CORK	1939	G	104	3	98	B	
3-LYNCHBURG	005-AMHERST	6029	627	WOODEN	1932	F	101	1	22	B	
3-LYNCHBURG	005-AMHERST	6085	622	SINGLE	1949	G	104	3	128	B	
3-LYNCHBURG	005-AMHERST	6089	778	TOTAL RB						C	
3-LYNCHBURG	005-AMHERST	6090	778	CORK	1938	G/RK	104	3	98	B	
3-LYNCHBURG	005-AMHERST	6120	610	WOODEN	1932	G/RK	101	1	24	B	
3-LYNCHBURG	005-AMHERST	6122	610	CORK	1932	G	101	1	24	B	
3-LYNCHBURG	005-AMHERST	6124	610	CORK	1932	G/RK	101	1	22	B	
3-LYNCHBURG	005-AMHERST	6128	610	TIMBER	1932	G	101	1	23	B	
3-LYNCHBURG	005-AMHERST	6137	618	CORK	1932	G/A	101	2	36	B	
3-LYNCHBURG	005-AMHERST	6140	621	CORK	1932	G	101	1	20	B	
3-LYNCHBURG	005-AMHERST	6185	670	WOODEN	1932	G	101	1	23	B	
3-LYNCHBURG	005-AMHERST	6186	670	WOODEN	1932	G	101	1	20	B	
3-LYNCHBURG	005-AMHERST	6910	778	CORK	1931	G	104	3	128	B	
3-LYNCHBURG	006-APPOMATTOX	1002	24	SPECIAL	1930/1971	G/A	104	1	33	A	
3-LYNCHBURG	006-APPOMATTOX	1003	26	CORK	1932/1977	G	104	3	128	B	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
3-LYNCHBURG	006-APPOMATTOX	1004	26	CORK	1931/1977	G/RK	104	3	98	B	
3-LYNCHBURG	006-APPOMATTOX	1005	26	TOTAL RB						C	
3-LYNCHBURG	006-APPOMATTOX	1007	60	CORK	1931	P/RK	104	3	113	B	
3-LYNCHBURG	006-APPOMATTOX	1016	24	TOTAL RB						C	
3-LYNCHBURG	006-APPOMATTOX	6009	608	SINGLE	1949	G	104	2	113	B	
3-LYNCHBURG	014-BUCKINGHAM	1004	20	CORK	1939	G	104	1	48	B	
3-LYNCHBURG	014-BUCKINGHAM	1005	20	CORK	1939	G	104	3	98	B	
3-LYNCHBURG	014-BUCKINGHAM	1008	24	TOTAL RB						C	
3-LYNCHBURG	014-BUCKINGHAM	1010	60	TOTAL RB						C	
3-LYNCHBURG	014-BUCKINGHAM	1013	20	CORK	1930	P	101	1	23	B	
3-LYNCHBURG	014-BUCKINGHAM	1014	60	CORK	1931/1974	F/RK	104	1	33	B	
3-LYNCHBURG	014-BUCKINGHAM	1016	24	TOTAL RB						C	
3-LYNCHBURG	014-BUCKINGHAM	1020	60	CORK	1932	F	101	1	22	B	
3-LYNCHBURG	015-CAMPBELL	1003	24	CORK	1931	G	104	3	98	B	
3-LYNCHBURG	015-CAMPBELL	1019	460E	TOTAL RB						C	
3-LYNCHBURG	015-CAMPBELL	1023	501	TOTAL RB						C	
3-LYNCHBURG	015-CAMPBELL	1024	501	TOTAL RB						C	
3-LYNCHBURG	015-CAMPBELL	1071	501	CORK	1932	G	101	1	23	B	
3-LYNCHBURG	015-CAMPBELL	6034	633	CORK	1939	G	201	3	64	B	
3-LYNCHBURG	015-CAMPBELL	6115	811	CORK	1934	G	104	2	150	B	
3-LYNCHBURG	019-CHARLOTTE	1004	40	TOTAL RB						C	
3-LYNCHBURG	019-CHARLOTTE	1006	40	CORK	1927	F	101	2	36	B	
3-LYNCHBURG	019-CHARLOTTE	1008	40	CORK	1929	F	104	3	128	B	
3-LYNCHBURG	019-CHARLOTTE	1009	40	CORK	1927	G	104	3	98	B	
3-LYNCHBURG	019-CHARLOTTE	1011	47	CORK	1939/1990	G	104	3	83	B	
3-LYNCHBURG	019-CHARLOTTE	1014	47	CORK	1940/1981	F	104	5	213	B	
3-LYNCHBURG	019-CHARLOTTE	1017	92	CORK	1931/1976	F	104	2	75	B	
3-LYNCHBURG	019-CHARLOTTE	1023	47	CORK	1932	G	101	1	23	B	
3-LYNCHBURG	019-CHARLOTTE	6106	727	CORK	1934	G	104	3	144	B	
3-LYNCHBURG	019-CHARLOTTE	6149	727	CORK	1932	G	101	1	22	B	
3-LYNCHBURG	019-CHARLOTTE	6150	727	CORK	1932	G	101	1	22	B	
3-LYNCHBURG	024-CUMBERLAND	6029	629	CORK	1933	G	101	2	42	B	
3-LYNCHBURG	024-CUMBERLAND	6030	629	CORK	1932	G	101	1	22	B	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
3-LYNCHBURG	024-CUMBERLAND	6085	690	CORK	1932	G	101	1	23	B	
3-LYNCHBURG	041-HALIFAX	1007	58	TOTAL RB						C	
3-LYNCHBURG	041-HALIFAX	1008	58	TOTAL RB						C	
3-LYNCHBURG	041-HALIFAX	1009	58	CORK	1932/1978	F	104	3	114	B	
3-LYNCHBURG	041-HALIFAX	1010	58E	CORK	1933/1978	F	104	1	48	B	
3-LYNCHBURG	041-HALIFAX	1011	58E	CORK	1933/1978	G	104	3	84	B	
3-LYNCHBURG	041-HALIFAX	1013	96	CORK	1935	F	104	1	43	B	
3-LYNCHBURG	041-HALIFAX	1014	96	CORK	1938/1983	G	104	3	98	B	
3-LYNCHBURG	041-HALIFAX	1017	360	CORK	1938/1993	G	104	1	33	B	
3-LYNCHBURG	041-HALIFAX	1022	360	CORK	1930/1988	G	104	3	98	B	
3-LYNCHBURG	041-HALIFAX	1023	360	CORK	1931/1988	F	104	3	114	B	
3-LYNCHBURG	041-HALIFAX	1036	501	SINGLE	1948/1992	G	104	2	76	B	
3-LYNCHBURG	041-HALIFAX	1089	360	CORK	1938	F	101	1	22	B	
3-LYNCHBURG	041-HALIFAX	6039	642	SINGLE	1949/1979	G	104	3	96	B	
3-LYNCHBURG	041-HALIFAX	6057	659	SINGLE	1949/1974	G	104	4	170	B	
3-LYNCHBURG	041-HALIFAX	6079	684	MASONRY	1935	G	107	1	26	A	18NIE
3-LYNCHBURG	041-HALIFAX	6129	832	CORK	1938	G	104	1	43	B	
3-LYNCHBURG	041-HALIFAX	6130	832	CORK	1939/1981	G	104	3	98	B	
3-LYNCHBURG	041-HALIFAX	6131	832	CORK	1932	G	104	5	165	B	
3-LYNCHBURG	062-NELSON	1001	6	CORK	1933/1984	G	104	3	98	B	
3-LYNCHBURG	062-NELSON	1002	6	CORK	1939	G	104	2	105	B	
3-LYNCHBURG	062-NELSON	1003	6	CORK	1933/1985	G/RK	104	3	98	B	
3-LYNCHBURG	062-NELSON	1008	56	CORK	1931	G	104	3	98	B	
3-LYNCHBURG	062-NELSON	1009	29	TOTAL RB						C	
3-LYNCHBURG	062-NELSON	1010	29	TOTAL RB						C	
3-LYNCHBURG	062-NELSON	1016	56	CORK	1936/1983	G/RK	104	4	170	B	
3-LYNCHBURG	062-NELSON	1018	56	CORK	1938/1973	F	104	1	42	B	
3-LYNCHBURG	062-NELSON	1019	56	CORK	1938/1973	G	104	5	209	B	
3-LYNCHBURG	062-NELSON	1030	151	CORK	1936/1977	G	104	1	44	B	
3-LYNCHBURG	062-NELSON	1031	151	CORK	1936/1980	G	104	3	113	B	
3-LYNCHBURG	062-NELSON	1032	151	CORK	1936/1977	G	104	1	44	B	
3-LYNCHBURG	062-NELSON	1043	29	CORK	1946	G/RK	101	1	23	B	
3-LYNCHBURG	062-NELSON	1051	29	TOTAL RB						C	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
3-LYNCHBURG	062-NELSON	1099	151	CORK	1932	G	101	1	23	B	
3-LYNCHBURG	062-NELSON	6146	626	TIMBER	1945	F	101	1	21	B	
3-LYNCHBURG	062-NELSON	6150	626	TIMBER	1932	G	101	1	20	B	
3-LYNCHBURG	071-PITTSYLVANIA	1002	29	TOTAL RB						C	
3-LYNCHBURG	071-PITTSYLVANIA	1003	29	TOTAL RB						C	
3-LYNCHBURG	071-PITTSYLVANIA	1005	29	TOTAL RB						C	
3-LYNCHBURG	071-PITTSYLVANIA	1006	29	CORK	1936/1978	G	104	3	165	B	
3-LYNCHBURG	071-PITTSYLVANIA	1008	29	TOTAL RB						C	
3-LYNCHBURG	071-PITTSYLVANIA	1013	40	CORK	1932	F	104	3	84	B	
3-LYNCHBURG	071-PITTSYLVANIA	1014	40	CORK	1932	F	104	1	33	B	
3-LYNCHBURG	071-PITTSYLVANIA	1015	40	CORK	1938/1991	F	104	3	117	B	
3-LYNCHBURG	071-PITTSYLVANIA	1016	40	CORK	1932	G/RK	104	2	65	B	
3-LYNCHBURG	071-PITTSYLVANIA	1030	58	CORK	1933/1989	F	104	3	114	B	
3-LYNCHBURG	071-PITTSYLVANIA	1031	58	CORK	1932/1991	G	104	3	84	B	
3-LYNCHBURG	071-PITTSYLVANIA	1033	29	CORK	1937/1954	F	101	1	23	B	
3-LYNCHBURG	071-PITTSYLVANIA	1050	40 BUS.	CORK	1930	G	101	1	21	B	
3-LYNCHBURG	071-PITTSYLVANIA	1056	40	CORK	1933	G	101	1	23	B	
3-LYNCHBURG	071-PITTSYLVANIA	1057	40	CORK	1933	G	101	1	23	B	
3-LYNCHBURG	071-PITTSYLVANIA	1064	40	CORK	1932	F	101	1	22	B	
3-LYNCHBURG	071-PITTSYLVANIA	6021	612	SINGLE	1949/1958	G	104	3	128	B	
3-LYNCHBURG	071-PITTSYLVANIA	6136	730	SINGLE	1947	G	104	3	96	B	
3-LYNCHBURG	071-PITTSYLVANIA	6164	761	CORK	1926	F	104	5	110	B	
3-LYNCHBURG	071-PITTSYLVANIA	6274	832	CORK	1933	G	101	1	23	B	
3-LYNCHBURG	071-PITTSYLVANIA	6276	832	CORK	1933	F	104	1	33	B	
3-LYNCHBURG	071-PITTSYLVANIA	6326	668	SOLID	1932	G	101	1	21	B	
3-LYNCHBURG	073-PRINCE EDWARD	1005	360	SINGLE	1931/1973	G	104	3	132	B	
3-LYNCHBURG	073-PRINCE EDWARD	1009	460	SINGLE	1928/1949	G	104	5	188	B	
3-LYNCHBURG	073-PRINCE EDWARD	1010	460	TOTAL RB						C	
3-LYNCHBURG	073-PRINCE EDWARD	6011	612	SINGLE	1949/1978	G	104	3	113	B	
3-LYNCHBURG	073-PRINCE EDWARD	6012	612	SINGLE	1949	F	104	1	49	B	
3-LYNCHBURG	073-PRINCE EDWARD	6030	629	CORK	1933	G	101	1	22	B	
3-LYNCHBURG	108-DANVILLE	1032	58E	CORK	1932	G	104	1	33	B	
3-LYNCHBURG	108-DANVILLE	1814	86	TOTAL RB						C	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
3-LYNCHBURG	108-DANVILLE	1902	56	CORK/NJB	1936/C. 1980	F/A	104	1	43	C	
3-LYNCHBURG	108-DANVILLE	6912	655	VERTICAL	1942	G	104	3	128	B	
3-LYNCHBURG	108-DANVILLE	8008	FARRAR ST.	VERTICAL	1947		104	3	114	B	
3-LYNCHBURG	108-DANVILLE	8011	BALTIMORE AVE.	CORK	1930	F	104	5	150	B	
3-LYNCHBURG	118-LYNCHBURG	1827	HOLLINS MILL RD.	TOTAL RB						C	
3-LYNCHBURG	118-LYNCHBURG	1828	221	SOLID	1932	F	101	1	33	B	
3-LYNCHBURG	118-LYNCHBURG	1840	460	TOTAL RB						C	
3-LYNCHBURG	118-LYNCHBURG	1847	501	TOTAL RB						C	
3-LYNCHBURG	118-LYNCHBURG	1849	BEDFORD AVE.	SOLID	1908	G	101	1	47	A	18
3-LYNCHBURG	118-LYNCHBURG	1865	460W	CORK	1936/1971	F	104	3	138	B	
3-LYNCHBURG	118-LYNCHBURG	1880	501N	SINGLE	1932	G/A	101	1	22	B	
3-LYNCHBURG	118-LYNCHBURG	8002	CAMPBELL AVE.	NEAR-TOTAL RB						C	
3-LYNCHBURG	144-FARMVILLE	1801	15	VERTICAL	1923/1942	G/A	104	7	228	B	
4-RICHMOND	004-AMELIA	1009	360	TOTAL RB						C	
4-RICHMOND	004-AMELIA	1012	153	SINGLE	1948	G	104	2	65	B	
4-RICHMOND	004-AMELIA	1021	360	TOTAL RB						C	
4-RICHMOND	004-AMELIA	6162	656	SOLID	1936	G	101	1	21	B	
4-RICHMOND	012-BRUNSWICK	1002	1	SINGLE	1929/1941	P	104	2	55	B	
4-RICHMOND	012-BRUNSWICK	1003	1	TOTAL RB						C	
4-RICHMOND	012-BRUNSWICK	1005	1	TOTAL RB						C	
4-RICHMOND	012-BRUNSWICK	1006	1	TOTAL RB						C	
4-RICHMOND	012-BRUNSWICK	1015	58	SINGLE	1942	F	104	3	98	B	
4-RICHMOND	012-BRUNSWICK	1019	58	TOTAL RB						C	
4-RICHMOND	012-BRUNSWICK	1056	58	TOTAL RB						C	
4-RICHMOND	012-BRUNSWICK	6100	712	CORK	1940	G/RK	104	3	128	B	
4-RICHMOND	018-CHARLES CITY	1001	5	TOTAL RB						C	
4-RICHMOND	018-CHARLES CITY	6004	609	SOLID	1920	G	102	2	55	A	
4-RICHMOND	020-CHESTERFIELD	1001	1	SINGLE	1941/1976	G	104	5	188	B	
4-RICHMOND	020-CHESTERFIELD	1003	1	TOTAL RB						C	
4-RICHMOND	020-CHESTERFIELD	1004	1	TOTAL RB						C	
4-RICHMOND	020-CHESTERFIELD	1005	1	TOTAL RB						C	
4-RICHMOND	020-CHESTERFIELD	1014	327	CORK	1939	G	104	4	131	B	
4-RICHMOND	020-CHESTERFIELD	1016	1	TOTAL RB						C	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
4-RICHMOND	020-CHESTERFIELD	1017	60	TOTAL RB							
4-RICHMOND	020-CHESTERFIELD	1018	1	CORK	1928/C. 1940	G/A	101	1	23	B	C
4-RICHMOND	020-CHESTERFIELD	1021	145	CORK	1931	G	104	1	28	B	B
4-RICHMOND	020-CHESTERFIELD	1023	360	TOTAL RB							C
4-RICHMOND	020-CHESTERFIELD	1024	360	CORK	1929	F	104	1	48	B	B
4-RICHMOND	020-CHESTERFIELD	1026	360	TOTAL RB							C
4-RICHMOND	020-CHESTERFIELD	1028	144	SINGLE	1949	G	104	1	46	B	B
4-RICHMOND	020-CHESTERFIELD	1044	60	TOTAL RB							C
4-RICHMOND	020-CHESTERFIELD	6028	678	CORK	1947	G	101	1	23	B	B
4-RICHMOND	020-CHESTERFIELD	6034	651	CORK	1941	G	101	1	23	B	B
4-RICHMOND	020-CHESTERFIELD	6041	653	TOTAL RB							C
4-RICHMOND	020-CHESTERFIELD	6059	678	CORK	1947	G	101	1	23	B	B
4-RICHMOND	020-CHESTERFIELD	6067	655	CORK	1947	G	101	1	23	B	B
4-RICHMOND	020-CHESTERFIELD	6122	780	TIMBER	1937	G	101	1	27	B	B
4-RICHMOND	020-CHESTERFIELD	6147	628	TOTAL RB							C
4-RICHMOND	020-CHESTERFIELD	8002	2657	CORK	1943	F	104	1	33	B	B
4-RICHMOND	026-DINWIDDIE	1009	40	TOTAL RB							C
4-RICHMOND	026-DINWIDDIE	1026	1	CORK	1926	G	101	1	23	B	B
4-RICHMOND	026-DINWIDDIE	1033	460	TOTAL RB							C
4-RICHMOND	026-DINWIDDIE	6083	703	CORK	1940	G/RK	104	3	113	B	B
4-RICHMOND	026-DINWIDDIE	6084	703	CORK	1938	G	104	3	98	B	B
4-RICHMOND	026-DINWIDDIE	6909	708	CORK	1940	G	104	4	170	B	B
4-RICHMOND	037-GOOCHLAND	1002	6	CORK	1929	F	104	3	88	B	B
4-RICHMOND	037-GOOCHLAND	1004	6	TOTAL RB							C
4-RICHMOND	037-GOOCHLAND	1005	6	TOTAL RB							C
4-RICHMOND	037-GOOCHLAND	1006	6	TOTAL RB							C
4-RICHMOND	037-GOOCHLAND	1007	6	TOTAL RB							C
4-RICHMOND	037-GOOCHLAND	1009	250	TOTAL RB							C
4-RICHMOND	037-GOOCHLAND	1010	250	CORK	1931	P	104	1	33	B	B
4-RICHMOND	037-GOOCHLAND	1027	250	CORK	1930/1988	G/RK	101	1	23	B	B
4-RICHMOND	037-GOOCHLAND	6038	645	CORK	1929	G	104	3	98	B	B
4-RICHMOND	042-HANOVER	1004	1	TOTAL RB							C
4-RICHMOND	042-HANOVER	1006	1	TOTAL RB							C

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
4-RICHMOND	042-HANOVER	1011	54	TOTAL RB						C	
4-RICHMOND	042-HANOVER	1015	301	TOTAL RB						C	
4-RICHMOND	042-HANOVER	1050	360	TOTAL RB						C	
4-RICHMOND	042-HANOVER	1053	301	TOTAL RB						C	
4-RICHMOND	042-HANOVER	1968	1	TOTAL RB						C	
4-RICHMOND	042-HANOVER	6040	661	SOLID	1919/1973	G	101	2	44	A	13
4-RICHMOND	042-HANOVER	6059	686	SOLID	1917/1976	G	103	4	137	A	12
4-RICHMOND	042-HANOVER	6908	623	LOW SOLID	1920	F	103	4	134	A	10
4-RICHMOND	043-HENRICO	1001	1	VERTICAL	1938	G	207	3	85	A	19
4-RICHMOND	043-HENRICO	1003	5	SINGLE	1942/1974	F	104	1	25	B	
4-RICHMOND	043-HENRICO	1008	33	VERTICAL	1946	F	101	1	23	B	
4-RICHMOND	043-HENRICO	1014	156	SOLID	1921	P	101	3	54	B	
4-RICHMOND	043-HENRICO	1017	360	TOTAL RB						C	
4-RICHMOND	043-HENRICO	1018	360	TOTAL RB						C	
4-RICHMOND	043-HENRICO	1019	360	TOTAL RB						C	
4-RICHMOND	043-HENRICO	1022	147	TOTAL RB						C	
4-RICHMOND	043-HENRICO	1029	5	CORK	1941	F	101	1	23	B	
4-RICHMOND	043-HENRICO	1921	250	TOTAL RB						C	
4-RICHMOND	055-LUNENBURG	1009	49	CORK	1930	P	104	1	43	B	
4-RICHMOND	055-LUNENBURG	1012	40	CORK	1935	F/RK	101	1	23	B	
4-RICHMOND	055-LUNENBURG	6102	723	SINGLE	1948	G	104	3	130	B	
4-RICHMOND	055-LUNENBURG	6132	638	SOLID	1915	F	101	1	23	A	9
4-RICHMOND	055-LUNENBURG	6139	652	TIMBER	1940	F	101	1	22	B	
4-RICHMOND	055-LUNENBURG	6909	723	SINGLE	1941/1974	F	104	6	255	B	
4-RICHMOND	058-MECKLENBURG	1001	1	TOTAL RB						C	
4-RICHMOND	058-MECKLENBURG	1012	58	SINGLE	1928/1949	F	104	3	98	B	
4-RICHMOND	058-MECKLENBURG	1013	15	CORK	1930	F/A	101	1	23	B	
4-RICHMOND	058-MECKLENBURG	1017	58	TOTAL RB						C	
4-RICHMOND	058-MECKLENBURG	1018	58	TOTAL RB						C	
4-RICHMOND	058-MECKLENBURG	1019	58	TOTAL RB						C	
4-RICHMOND	058-MECKLENBURG	1029	92	TOTAL RB						C	
4-RICHMOND	058-MECKLENBURG	1926	49	CORK	1929	F	104	3	108	B	
4-RICHMOND	063-NEW KENT	1001	273	SINGLE	1947	G	101	2	45	B	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
4-RICHMOND	063-NEW KENT	1002	249	TOTAL RB						C	
4-RICHMOND	063-NEW KENT	1009	155	CORK	1931	G	104	2	75	B	
4-RICHMOND	063-NEW KENT	1010	60	SINGLE	1946/1984	G/A	104	1	43	B	
4-RICHMOND	063-NEW KENT	1013	60	SINGLE	1947	A	104	1	43	B	
4-RICHMOND	063-NEW KENT	1014	60	TOTAL RB						C	
4-RICHMOND	063-NEW KENT	1025	60	CORK	1924	F	101	1	23	B	
4-RICHMOND	063-NEW KENT	1929	155	CORK	1931/1973	G/A	104	2	55	B	
4-RICHMOND	063-NEW KENT	1956	60	TOTAL RB						C	
4-RICHMOND	063-NEW KENT	6025	629	TOTAL RB						C	
4-RICHMOND	067-NOTTOWAY	1010	307	TOTAL RB						C	
4-RICHMOND	067-NOTTOWAY	1012	460	TOTAL RB						C	
4-RICHMOND	067-NOTTOWAY	6058	723	SINGLE	1946	F	104	5	188	B	
4-RICHMOND	072-POWHATAN	1009	13	SOLID	1920/1945	G	101	1	23	A	8
4-RICHMOND	072-POWHATAN	1011	313	CURB/GUARDRAIL	1945	G	101	2	46	B	
4-RICHMOND	072-POWHATAN	6024	711	CORK	1940	F/A	104	3	128	B	
4-RICHMOND	072-POWHATAN	6025	711	CORK	1939	G	104	3	128	B	
4-RICHMOND	072-POWHATAN	6026	711	CORK	1940	G	104	2	85	B	
4-RICHMOND	072-POWHATAN	6045	684	CORK	1938	F	101	1	23	B	
4-RICHMOND	072-POWHATAN	6904	684	CORK	1940/1973	G	104	4	130	B	
4-RICHMOND	074-PRINCE GEORGE	1002	10	TOTAL RB						C	
4-RICHMOND	074-PRINCE GEORGE	1003	10	TOTAL RB						C	
4-RICHMOND	074-PRINCE GEORGE	1004	10	TOTAL RB						C	
4-RICHMOND	074-PRINCE GEORGE	1012	301	CORK	1927/1939	G/RK	104	1	33	B	
4-RICHMOND	074-PRINCE GEORGE	1013	301	TOTAL RB						C	
4-RICHMOND	074-PRINCE GEORGE	1021	156	TOTAL RB						C	
4-RICHMOND	123-PETERSBURG	1807	1	TOTAL RB						C	
4-RICHMOND	123-PETERSBURG	1810	460	TOTAL RB						C	
4-RICHMOND	123-PETERSBURG	1813	1	VERTICAL	1925/1976	F	204	8	451	A	Y
4-RICHMOND	123-PETERSBURG	1829	36	PIPE	1935	G/A	104	1	31	B	
4-RICHMOND	123-PETERSBURG	1912	1	VERTICAL	1925/1976	F	204	37	1683	A	Y
4-RICHMOND	123-PETERSBURG	8019	HINTON ST.	SOLID/NONE	1930	G	101	1	27	B	
4-RICHMOND	127-RICHMOND	1850	5	SOLID	1913	F	101	2	32	A	10
4-RICHMOND	127-RICHMOND	8027	4TH STREET	TOTAL RB						C	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
4-RICHMOND	127-RICHMOND	8066	1ST STREET	SPECIAL	1935	P	203	10	866	A	Y
4-RICHMOND	127-RICHMOND	8067	WATER ST.	VERTICAL	1938	G	202	3	64	A	15?
4-RICHMOND	127-RICHMOND	8069	VIRGINIA ST.	PIPE	1920	F/A	204	3	72	B	
4-RICHMOND	127-RICHMOND	8084	CHAMBLYN PARK	TOTAL RB						C	
5-SUFFOLK	040-GREENSVILLE	1004	301	SINGLE/CORK	1928/----	A	101	3	69	C	
5-SUFFOLK	040-GREENSVILLE	1008	301	CORK	1927	G	104	5	190	B	
5-SUFFOLK	040-GREENSVILLE	6030	688	SOLID	1919	G	102	1	31	A	13
5-SUFFOLK	040-GREENSVILLE	6034	629	CORK	1939/1941	G	104	4	152	B	
5-SUFFOLK	046-ISLE OF WIGHT	1003	58	TOTAL RB						C	
5-SUFFOLK	046-ISLE OF WIGHT	1007	258	TOTAL RB						C	
5-SUFFOLK	046-ISLE OF WIGHT	1961	10	TOTAL RB						C	
5-SUFFOLK	046-ISLE OF WIGHT	6102	691	CORK	1937	F	104	5	180	B	
5-SUFFOLK	087-SOUTHAMPTON	1003	35	TOTAL RB						C	
5-SUFFOLK	087-SOUTHAMPTON	1010	185	TOTAL RB						C	
5-SUFFOLK	087-SOUTHAMPTON	1015	35	TOTAL RB						C	
5-SUFFOLK	087-SOUTHAMPTON	1017	35	VERTICAL	1946	G	104	3	98	B	
5-SUFFOLK	087-SOUTHAMPTON	1018	308	SINGLE	1947	G	104	6	192	B	
5-SUFFOLK	087-SOUTHAMPTON	1931	186	VERTICAL	1936	G	104	15	636	A	14
5-SUFFOLK	090-SURRY	1002	10	TOTAL RB						C	
5-SUFFOLK	090-SURRY	1009	10	TOTAL RB						C	
5-SUFFOLK	090-SURRY	1010	10	TOTAL RB						C	
5-SUFFOLK	090-SURRY	1931	10	TOTAL RB						C	
5-SUFFOLK	091-SUSSEX	1007	40	NEAR TOTAL RB						C	
5-SUFFOLK	091-SUSSEX	1015	301	CORK	1928	G	104	3	129	B	
5-SUFFOLK	091-SUSSEX	1019	301	TOTAL RB						C	
5-SUFFOLK	091-SUSSEX	6104	681	GUARDRAIL	1919	G	102	1	30	A	9
5-SUFFOLK	091-SUSSEX	6122	603	SOLID	1932	G	101	3	24	A	14
5-SUFFOLK	099-YORK	1001	17	TOTAL RB						C	
5-SUFFOLK	099-YORK	1900	134	CORK	1930	RB	104	3	84	C	
5-SUFFOLK	114-HAMPTON	1804	134	CORK/SINGLE	1930/1949	G	104	2	76	B	
5-SUFFOLK	114-HAMPTON	1808	258	TOTAL RB						C	
5-SUFFOLK	114-HAMPTON	8006	POW. PKWY	CORK	1929	F	101	1	28	A	C
5-SUFFOLK	121-NEWPORT NEWS	1806	60	TOTAL/NEAR TOTAL RB						C	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Connd.	Span Type	Spans	Total Len.	Sign.	Historical Rating
5-SUFFOLK	121-NEWPORT NEWS	1824	167	TOTAL RB						C	
5-SUFFOLK	121-NEWPORT NEWS	8003	O. C. H. HWY	CORK	1915/1931	F	104	1	29	B	
5-SUFFOLK	121-NEWPORT NEWS	8004	LUCAS CR. RD.	NEAR TOTAL RB						C	
5-SUFFOLK	122-NORFOLK	1801	13	VERTICAL	1943	G	104	2	48	B	
5-SUFFOLK	122-NORFOLK	1807	58	CORK	1924/1938/1949	G	104	3	98	B	
5-SUFFOLK	122-NORFOLK	1810	60	VERTICAL	1929/1949	G	104	8	224	B	
5-SUFFOLK	122-NORFOLK	1843	26TH STREET	ART DECO CONC. POST	1939	G	201	13	455	A	177
5-SUFFOLK	122-NORFOLK	1913	13	NEAR TOTAL RB						C	
5-SUFFOLK	122-NORFOLK	8003	ROBIN HOOD RD.	SINGLE	1944/1987	G	204	2	48	B	
5-SUFFOLK	124-PORTSMOUTH	1816	239	SINGLE	1944	F	101	8	184	B	
5-SUFFOLK	131-CHESAPEAKE	1808	13	SINGLE	1948/1960	G	104	5	275	A	17
5-SUFFOLK	131-CHESAPEAKE	1823	58	CORK	1932	G/RK	101	1	23	B	
5-SUFFOLK	131-CHESAPEAKE	1844	168	CORK	1932	G	101	1	23	B	
5-SUFFOLK	133-SUFFOLK	1802	10	CORK	1924/1967	G/RK/A	104	1	28	B	
5-SUFFOLK	133-SUFFOLK	1815	32	CORK	1927/1963	RB	104	3	105	B	
5-SUFFOLK	133-SUFFOLK	1819	337	CORK	1932	G	101	1	28	B	
5-SUFFOLK	133-SUFFOLK	1836	337	CORK	1920	RK	104	1	33	B	
5-SUFFOLK	133-SUFFOLK	8043	759	SINGLE	1949	G	104	3	98	B	
6-FREDERICKSBURG	016-CAROLINE	1001	1	TOTAL RB						C	
6-FREDERICKSBURG	016-CAROLINE	1002	1	TOTAL RB						C	
6-FREDERICKSBURG	016-CAROLINE	1003	1	TOTAL RB						C	
6-FREDERICKSBURG	016-CAROLINE	1005	1	TOTAL RB						C	
6-FREDERICKSBURG	016-CAROLINE	1008	1	TOTAL RB						C	
6-FREDERICKSBURG	016-CAROLINE	1009	17	TOTAL RB						C	
6-FREDERICKSBURG	016-CAROLINE	1010	17	CORK	1933	P	104	1	43	C	
6-FREDERICKSBURG	016-CAROLINE	1011	1	TOTAL RB						C	
6-FREDERICKSBURG	016-CAROLINE	1013	2	CORK	1932	F	101	1	22	B	
6-FREDERICKSBURG	016-CAROLINE	1018	301	TOTAL RB						C	
6-FREDERICKSBURG	016-CAROLINE	1021	2	TOTAL RB						C	
6-FREDERICKSBURG	016-CAROLINE	6008	603	TOTAL RB						C	
6-FREDERICKSBURG	016-CAROLINE	6017	614	CURB	1914	G	101	2	44	A	9
6-FREDERICKSBURG	016-CAROLINE	6076	652	TOTAL RB						C	
6-FREDERICKSBURG	028-ESSEX	6017	684	CORK	1932	P	101	1	23	C	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
6-FREDERICKSBURG	028-ESSEX	6018	691	SOLID	1923	G	103	1	67	A	13
6-FREDERICKSBURG	036-GLOUCESTER	1001	3	CORK	1938	G	104	1	38	B	
6-FREDERICKSBURG	036-GLOUCESTER	1003	17	SINGLE	1917/1938	G	104	3	69	B	
6-FREDERICKSBURG	036-GLOUCESTER	1004	198	CORK	1938	G	104	1		B	
6-FREDERICKSBURG	036-GLOUCESTER	1005	198	CORK	1941	G	104	1	43	B	
6-FREDERICKSBURG	048-KING GEORGE	1962	3	SINGLE	1931	F	104	2	78	B	
6-FREDERICKSBURG	049-KING & QUEEN	1954	14	CORK	1938	P	101	2	46	C	
6-FREDERICKSBURG	051-LANCASTER	1004	3	CORK	1939	F	104	3	96	B	
6-FREDERICKSBURG	051-LANCASTER	1005	3	TOTAL RB						C	
6-FREDERICKSBURG	051-LANCASTER	6016	695	CORK	1930	F	101	1	23	B	
6-FREDERICKSBURG	057-MATHEWS	1003	14	SINGLE	1949	G	104	3	98	B	
6-FREDERICKSBURG	057-MATHEWS	1956	3	SINGLE	1948	G	104	3	98	B	
6-FREDERICKSBURG	059-MIDDLESEX	1955	17	CORK	1931	G	104	3	114	B	
6-FREDERICKSBURG	066-NORTHUMBERLAND	1953	202	CORK	1931	F	104	3	66	B	
6-FREDERICKSBURG	079-RICHMOND	1001	3	TOTAL RB						C	
6-FREDERICKSBURG	079-RICHMOND	6013	637	TOTAL RB						C	
6-FREDERICKSBURG	079-RICHMOND	6049	697	CORK	1929	P	104	1	33	B	
6-FREDERICKSBURG	088-SPOTSYLVANIA	1004	1	TOTAL RB						C	
6-FREDERICKSBURG	088-SPOTSYLVANIA	1005	1	TOTAL RB						C	
6-FREDERICKSBURG	088-SPOTSYLVANIA	1007	3	TOTAL RB						C	
6-FREDERICKSBURG	088-SPOTSYLVANIA	1012	208	CORK	1931	F/RK	104	3	126	B	
6-FREDERICKSBURG	088-SPOTSYLVANIA	1022	208	TOTAL RB						C	
6-FREDERICKSBURG	088-SPOTSYLVANIA	6059	738	CORK	1930	G	101	1	22	B	
6-FREDERICKSBURG	088-SPOTSYLVANIA	6063	738	CORK	1930	F	101	1	23	B	
6-FREDERICKSBURG	089-STAFFORD	1001	1	SINGLE	1925/1938?	G	104	2	86	B	
6-FREDERICKSBURG	089-STAFFORD	1003	3	CORK	1933	G	104	1	43	B	
6-FREDERICKSBURG	089-STAFFORD	1004	1	TOTAL RB						C	
6-FREDERICKSBURG	089-STAFFORD	1016	1	TOTAL RB						C	
6-FREDERICKSBURG	089-STAFFORD	1023	3	CORK/NONE	1947	G	101	1	23	C	
6-FREDERICKSBURG	089-STAFFORD	6020	630	PIPE	1917	F	207	3	98	A	15
6-FREDERICKSBURG	089-STAFFORD	6075	607	SOLID	1931/1920?	G	101	1	23	A	11
6-FREDERICKSBURG	096-WESTMORELAND	1001	3	TOTAL RB						C	
6-FREDERICKSBURG	096-WESTMORELAND	1002	3	TOTAL RB						C	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
6-FREDERICKSBURG	096-WESTMORELAND	1003	3	TOTAL RB						C	
6-FREDERICKSBURG	096-WESTMORELAND	1006	205	CORK	1933	F/RK	104	1	43	C	
6-FREDERICKSBURG	096-WESTMORELAND	6006	639	LOW SOLID	1944?	F	101	2	36	B	
6-FREDERICKSBURG	111-FREDERICKSBURG	1801	1	CORK	1930/1931	P	104	2	74	C	
6-FREDERICKSBURG	111-FREDERICKSBURG	1802	1	TOTAL RB						C	
6-FREDERICKSBURG	111-FREDERICKSBURG	1803	1	VERTICAL	1945	G	204	3	144	B	
6-FREDERICKSBURG	111-FREDERICKSBURG	1804	1	VERTICAL	1946	G	104	3	114	B	
7-CULPEPER	002-ALBEMARLE	1001	6	CORK	1935	F	104	1	33	B	
7-CULPEPER	002-ALBEMARLE	1002	6	CORK	1935	F	104	1	48	B	
7-CULPEPER	002-ALBEMARLE	1007	20	CORK	1932	A	101	1	29	B	
7-CULPEPER	002-ALBEMARLE	1010	22	CORK	1935	G	104	4	192	B	
7-CULPEPER	002-ALBEMARLE	1011	22	TOTAL RB						C	
7-CULPEPER	002-ALBEMARLE	1024	240	NEAR-TOTAL RB						C	
7-CULPEPER	002-ALBEMARLE	1041	231	NEAR-TOTAL RB						C	
7-CULPEPER	002-ALBEMARLE	1042	240	TOTAL RB						C	
7-CULPEPER	002-ALBEMARLE	1046	250	CORK	1936	F	107	1	40	A	
7-CULPEPER	002-ALBEMARLE	1056	20	TOTAL RB						C	
7-CULPEPER	002-ALBEMARLE	1059	53	SINGLE	1949	G	104	1	42	B	
7-CULPEPER	002-ALBEMARLE	1073	22	CORK	1932	P	101	1	22	C	
7-CULPEPER	002-ALBEMARLE	1074	22	CORK	1932	F	101	1	22	C	
7-CULPEPER	002-ALBEMARLE	1077	22	TOTAL RB						C	
7-CULPEPER	002-ALBEMARLE	1081	22	TOTAL RB						C	
7-CULPEPER	002-ALBEMARLE	1085	29	CORK/GUARDRAIL	1932	F	101	1	21	C	
7-CULPEPER	002-ALBEMARLE	1107	231	TOTAL RB						C	
7-CULPEPER	002-ALBEMARLE	1109	231	TOTAL RB						C	
7-CULPEPER	002-ALBEMARLE	1111	231	TOTAL RB						C	
7-CULPEPER	002-ALBEMARLE	1118	250	TOTAL RB						C	
7-CULPEPER	002-ALBEMARLE	1143	6	CORK	1932	G	101	1	23	B	
7-CULPEPER	002-ALBEMARLE	6061	672	LOWWATER	1932	F	201	2	40	B	
7-CULPEPER	002-ALBEMARLE	6062	674	TOTAL RB						C	
7-CULPEPER	002-ALBEMARLE	6126	810	SINGLE	1948	G	101	1	18	B	
7-CULPEPER	002-ALBEMARLE	6127	810	CORK	1932	G	101	1	21	B	
7-CULPEPER	002-ALBEMARLE	6128	810	SOLID	1932	G	101	1	22	B	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
7-CULPEPER	002-ALBEMARLE	6165	626	SOLID	1932	G	101	1	22	B	
7-CULPEPER	002-ALBEMARLE	6175	631	SOLID	1932	G	101	1	23	B	
7-CULPEPER	002-ALBEMARLE	6203	691	GUARDRAIL	1932	F	101	1	21	B	
7-CULPEPER	002-ALBEMARLE	6207	692	CORK	1932	F	101	1	22	B	
7-CULPEPER	002-ALBEMARLE	6208	692	CORK	1932	G	101	1	25	B	
7-CULPEPER	002-ALBEMARLE	6219	715	SOLID	1932	G	101	1	23	B	
7-CULPEPER	002-ALBEMARLE	6241	795	SOLID	1932	G	101	1	23	B	
7-CULPEPER	023-CULPEPER	1004	522	TOTAL RB						C	
7-CULPEPER	023-CULPEPER	1006	762	CORK	1932	F	104	1	33	C	
7-CULPEPER	023-CULPEPER	1008	15	TOTAL RB						C	
7-CULPEPER	023-CULPEPER	1011	229	TOTAL RB						C	
7-CULPEPER	023-CULPEPER	1014	229	TOTAL RB						C	
7-CULPEPER	023-CULPEPER	6008	615	TOTAL RB						C	
7-CULPEPER	023-CULPEPER	6009	615	NEAR-TOTAL RB						C	
7-CULPEPER	023-CULPEPER	6010	620	SOLID	1915	G	103	4	148	A	15
7-CULPEPER	023-CULPEPER	6018	628	LOWWATER	1928	G	101	4	132	B	
7-CULPEPER	023-CULPEPER	6026	640	SOLID	1940	G	101	1	23	B	
7-CULPEPER	023-CULPEPER	6034	647	TOTAL RB						C	
7-CULPEPER	023-CULPEPER	6037	649	SINGLE	1948	G	101	1	22	B	
7-CULPEPER	023-CULPEPER	6038	652	TOTAL RB						C	
7-CULPEPER	023-CULPEPER	6046	669	SOLID	1913	G	103	5	130	A	
7-CULPEPER	023-CULPEPER	6097	647	SOLID	1920	G	101	1	22	B	
7-CULPEPER	023-CULPEPER	6112	685	CORK	1933	P	101	1	21	C	
7-CULPEPER	030-FAUQUIER	1001	15	TOTAL RB						C	
7-CULPEPER	030-FAUQUIER	1002	15	TOTAL RB						C	
7-CULPEPER	030-FAUQUIER	1018	55	CORK	1936	F	104	1	43	B	
7-CULPEPER	030-FAUQUIER	1019	55	TOTAL RB						C	
7-CULPEPER	030-FAUQUIER	1023	17	TOTAL RB						C	
7-CULPEPER	030-FAUQUIER	1028	211	TOTAL RB						C	
7-CULPEPER	030-FAUQUIER	1033	215	SOLID	1923	G	102	1	33	A	13
7-CULPEPER	030-FAUQUIER	1045	28	TOTAL RB						C	
7-CULPEPER	030-FAUQUIER	1047	28	TOTAL RB						C	
7-CULPEPER	030-FAUQUIER	1051	15	CORK	1928	G	101	1	22	B	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
7-CULPEPER	030-FAUQUIER	1053	15	TOTAL RB						C	
7-CULPEPER	030-FAUQUIER	1065	F-185	SOLID	1925	G	101	1	24	A	10
7-CULPEPER	030-FAUQUIER	1074	55	TOTAL RB						C	
7-CULPEPER	030-FAUQUIER	6012	605	CORK	1932	RK	101	2	44	B	
7-CULPEPER	030-FAUQUIER	6036	626	PROTO-CORK	1928	G	201	2	26	A	11
7-CULPEPER	030-FAUQUIER	6040	629	CORK	1942	F/RK	101	2	44	B	
7-CULPEPER	030-FAUQUIER	6047	635	CORK	1932	F	101	2	44	B	
7-CULPEPER	030-FAUQUIER	6053	647	SOLID	c. 1923-1925	F	102	1	34	A	12
7-CULPEPER	030-FAUQUIER	6054	647	SOLID	1923	G	102	1	34	A	13
7-CULPEPER	030-FAUQUIER	6057	651	CORK	1933	F/RK	101	2	44	B	
7-CULPEPER	030-FAUQUIER	6087	688	SOLID	1925	G	101	2	44	B	
7-CULPEPER	030-FAUQUIER	6104	713	CORK	1938	F	101	2	44	B	
7-CULPEPER	030-FAUQUIER	6141	610	SOLID	1921	G	101	1	22	B	
7-CULPEPER	030-FAUQUIER	6142	610	SOLID	1921	G	101	1	23	B	
7-CULPEPER	030-FAUQUIER	6143	616	CORK	1936	F	101	1	22	B	
7-CULPEPER	030-FAUQUIER	6171	651	CORK	1946	F	101	1	23	B	
7-CULPEPER	030-FAUQUIER	6172	651	CORK	1933	G	101	1	22	B	
7-CULPEPER	030-FAUQUIER	6181	802	CURB	1936	G	101	1	20	B	
7-CULPEPER	030-FAUQUIER	6183	802	CURB	1936	G	101	1	22	B	
7-CULPEPER	030-FAUQUIER	6192	603	CORK	1937	P	101	1	22	C	
7-CULPEPER	030-FAUQUIER	6232	776	PROTO-CORK	1919	F	201	2	44	A	
7-CULPEPER	030-FAUQUIER	6234	629	CORK	1928	F	101	1	22	B	
7-CULPEPER	030-FAUQUIER	6235	686	CORK	1933	F	101	1	20	B	
7-CULPEPER	030-FAUQUIER	6237	601	CORK	1933	G	101	1	22	B	
7-CULPEPER	030-FAUQUIER	6241	702	CORK	1936	P/RK	101	1	23	B	
7-CULPEPER	030-FAUQUIER	6253	623	CORK	1934	G	101	1	23	B	
7-CULPEPER	030-FAUQUIER	6255	713	SOLID	1922	G	101	1	20	B	
7-CULPEPER	030-FAUQUIER	6262	647	SOLID	1927	G	101	1	23	B	
7-CULPEPER	030-FAUQUIER	6304	625	TOTAL RB						C	
7-CULPEPER	032-FLUVANNA	1009	250	CORK	1938	F	104	5	220	B	
7-CULPEPER	032-FLUVANNA	6050	659	CORK	1940	F	104	4	172	B	
7-CULPEPER	039-GREENE	1006	33	CORK	1931	F	101	1	22	B	
7-CULPEPER	039-GREENE	1008	230	CORK	1941	G	104	4	172	B	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
7-CULPEPER	039-GREENE	6006	609	SINGLE	1949	G	104	2	96	B	
7-CULPEPER	054-LOUISA	1004	22	TOTAL RB						B	
7-CULPEPER	054-LOUISA	1007	15	TOTAL RB						C	
7-CULPEPER	054-LOUISA	1009	15	TOTAL RB						C	
7-CULPEPER	054-LOUISA	1010	231	TOTAL RB						C	
7-CULPEPER	056-MADISON	1002	15	TOTAL RB						C	
7-CULPEPER	056-MADISON	1003	231	CORK	1928	G	104	3	126	B	
7-CULPEPER	056-MADISON	1007	231	CORK	1932	G	104	4	152	B	
7-CULPEPER	056-MADISON	1010	230	CORK	1940	G	104	5	215	B	
7-CULPEPER	056-MADISON	1015	29	TOTAL RB						C	
7-CULPEPER	056-MADISON	1046	231	TOTAL RB						C	
7-CULPEPER	056-MADISON	1908	15	TOTAL RB						C	
7-CULPEPER	056-MADISON	1914	230	CORK	1939	G	104	3	129	B	
7-CULPEPER	056-MADISON	6007	609	CORK	1938/1983	G	104	3	60	B	
7-CULPEPER	068-ORANGE	1011	33	TOTAL RB						C	
7-CULPEPER	068-ORANGE	1015	522	TOTAL RB						C	
7-CULPEPER	068-ORANGE	1025	15	TOTAL RB						C	
7-CULPEPER	068-ORANGE	1069	3	TOTAL RB						C	
7-CULPEPER	068-ORANGE	6016	627	TOTAL RB						C	
7-CULPEPER	068-ORANGE	6110	621	TOTAL RB						C	
7-CULPEPER	078-RAPPAHANNOCK	1004	522	CORK	1943	G	104	1	30	B	
7-CULPEPER	078-RAPPAHANNOCK	1006	522	CORK	1939	F	104	3	114	B	
7-CULPEPER	078-RAPPAHANNOCK	1008	231	TOTAL RB						C	
7-CULPEPER	078-RAPPAHANNOCK	1014	211	TOTAL RB						C	
7-CULPEPER	078-RAPPAHANNOCK	1021	522	TOTAL RB						C	
7-CULPEPER	078-RAPPAHANNOCK	1022	522	TOTAL RB						C	
7-CULPEPER	078-RAPPAHANNOCK	1023	522	TOTAL RB						C	
7-CULPEPER	078-RAPPAHANNOCK	1024	522	CORK	1923/1939	G	104	1	37	B	
7-CULPEPER	078-RAPPAHANNOCK	1030	231	TOTAL RB						C	
7-CULPEPER	078-RAPPAHANNOCK	1033	231	TOTAL RB						C	
7-CULPEPER	078-RAPPAHANNOCK	1034	231	TOTAL RB						C	
7-CULPEPER	078-RAPPAHANNOCK	1052	522	TOTAL RB						C	
7-CULPEPER	078-RAPPAHANNOCK	1059	522	TOTAL RB						C	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
7-CULPEPER	078-RAPPAHANNOCK	1060	522	TOTAL RB						C	
7-CULPEPER	078-RAPPAHANNOCK	6047	655	SOLID	1920	G	102	2	94	A	12
7-CULPEPER	078-RAPPAHANNOCK	6051	1001	GUARDRAIL	1938/1980	F	101	2	56	B	
7-CULPEPER	078-RAPPAHANNOCK	6080	678	CORK	1929	F	101	1	23	C	
7-CULPEPER	078-RAPPAHANNOCK	6083	675	CORK	1914/1930	P	101	2	44	C	
7-CULPEPER	078-RAPPAHANNOCK	6110	637	SOLID	1931	P	101	1	23	B	
7-CULPEPER	078-RAPPAHANNOCK	6122	644	LOWWATER	1930	G	101	1	30	B	
7-CULPEPER	078-RAPPAHANNOCK	6123	707	TOTAL RB						C	
7-CULPEPER	078-RAPPAHANNOCK	6130	683	CORK	1914/1930	P	104	3	105	C	
7-CULPEPER	078-RAPPAHANNOCK	6910	644	LOWWATER	1933	G	101	2	50	B	
7-CULPEPER	104-CHARLOTTESVILLE	1811	250	SOLID	1916	P	101	4	112	C	
7-CULPEPER	104-CHARLOTTESVILLE	8012	29	SOLID	1932	P	104	3	98	B	
7-CULPEPER	204-CULPEPER	1801		TOTAL RB						C	
7-CULPEPER	204-CULPEPER	1804	522	TOTAL RB						C	
8-STAUUNTON	003-ALLEGHANY	1007	18	CORK	1942	F	104	3	129	B	
8-STAUUNTON	003-ALLEGHANY	1013	18	CORK	1932	F	101	1	23	B	
8-STAUUNTON	003-ALLEGHANY	1016	850	CORK	1927	F/RK	104	3	84	B	
8-STAUUNTON	003-ALLEGHANY	1017	269	CORK	1930	F	104	2	66	B	
8-STAUUNTON	003-ALLEGHANY	1018	269	CORK	1930	G	104	2	96	B	
8-STAUUNTON	003-ALLEGHANY	1020	269	CORK	1930	G/RK	104	1	43	B	
8-STAUUNTON	003-ALLEGHANY	1030	60	CORK	1929/1989	G/RK	104	3	162	B	
8-STAUUNTON	003-ALLEGHANY	1036	159	CORK	1928	P	104	1	48	C	
8-STAUUNTON	003-ALLEGHANY	1040	159	NEAR-TOTAL RB						C	
8-STAUUNTON	003-ALLEGHANY	1049	159	CORK	1928	G	101	2	36	B	
8-STAUUNTON	003-ALLEGHANY	1059	18	CORK	1941	G	104	5	215	B	
8-STAUUNTON	003-ALLEGHANY	1107	18	CORK	1940	G	101	1	22	B	
8-STAUUNTON	003-ALLEGHANY	1119	159	CORK	1929	F	101	1	23	B	
8-STAUUNTON	003-ALLEGHANY	1120	311	CORK/GDRAIL	1929/1982	A	101	1	23	C	
8-STAUUNTON	003-ALLEGHANY	1121	311	CORK	1929	P	101	1	23	C	
8-STAUUNTON	003-ALLEGHANY	1122	311	TOTAL RB						C	
8-STAUUNTON	003-ALLEGHANY	6006	603	TOTAL RB						C	
8-STAUUNTON	003-ALLEGHANY	6007	603	SINGLE	1932	RB/G	101	2	44	B	
8-STAUUNTON	003-ALLEGHANY	6009	604	SINGLE	1932	RB/G	101	1	22	B	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Contd.	Span Type	Spans	Total Len.	Sign.	Historical Rating
8-STAUTON	003-ALLEGHANY	6010	604	SINGLE	1932	RB/G	101	2	30	B	
8-STAUTON	003-ALLEGHANY	6011	604	SINGLE	1932	RB/G	101	2	32	B	
8-STAUTON	003-ALLEGHANY	6046	632	LOW SOLID	1932	F	104	1	44	A	9
8-STAUTON	003-ALLEGHANY	6067	696	VERTICAL	1925	F	204	9	324	A	Y?
8-STAUTON	003-ALLEGHANY	6084	661	SINGLE	1932/1950?	G	101	2	44	B	
8-STAUTON	003-ALLEGHANY	6090	661	SINGLE	1940	F	104	4	172	B	
8-STAUTON	003-ALLEGHANY	6091	661	SINGLE	1948	G	104	2	76	B	
8-STAUTON	003-ALLEGHANY	6160	687	NEAR-TOTAL RB						C	
8-STAUTON	003-ALLEGHANY	6169	1104	SINGLE	1925/1947	F	104	4	86	B	
8-STAUTON	003-ALLEGHANY	6447	696	CORK	1900(1930?)	P	104	9	227	C	
8-STAUTON	003-ALLEGHANY	6450	640	SINGLE	1932/1950?	G	101	2	44	B	
8-STAUTON	003-ALLEGHANY	6464	709	CORK	1938	P	104			C	
8-STAUTON	007-AUGUSTA	1001	11	CORK	1932/1936	F/A	104	4	112	B	
8-STAUTON	007-AUGUSTA	1003	11	SINGLE	1930/1941	G/A	104	1	43	B	
8-STAUTON	007-AUGUSTA	1006	11	VERTICAL	1934/1949	G/RK	104	1	43	B	
8-STAUTON	007-AUGUSTA	1008	340	TOTAL RB						C	
8-STAUTON	007-AUGUSTA	1011	42	PIPE	1917	G/A	101	1	33	B	
8-STAUTON	007-AUGUSTA	1028	250	CORK	1938	F	104	2	76	B	
8-STAUTON	007-AUGUSTA	1030	250	CORK	1929	G	104	4	132	B	
8-STAUTON	007-AUGUSTA	1031	250	TOTAL RB						C	
8-STAUTON	007-AUGUSTA	1032	250	SINGLE	1949/1987	G	101	3	101	B	
8-STAUTON	007-AUGUSTA	1033	250	SINGLE	1925/1949	G	101	3	54	B	
8-STAUTON	007-AUGUSTA	1034	250	SINGLE	1935/1949	G	101	3	57	B	
8-STAUTON	007-AUGUSTA	1035	250	SINGLE	1935/1949	G	101	2	40	B	
8-STAUTON	007-AUGUSTA	1036	250	CORK	1934	G	104	3	98	B	
8-STAUTON	007-AUGUSTA	1037	250	NEAR-TOTAL RB						C	
8-STAUTON	007-AUGUSTA	1039	250	CORK	1924	P	104	1	33	C	
8-STAUTON	007-AUGUSTA	1045	254	CORK	1926	G	104	2	56	C	
8-STAUTON	007-AUGUSTA	1047	254	CORK	1926	G	101	2	46	B	
8-STAUTON	007-AUGUSTA	1063	340	SINGLE	1942/1987	F/RK	104	3	98	B	
8-STAUTON	007-AUGUSTA	1064	340	SINGLE	1942/1987	G/RK	104	3	98	B	
8-STAUTON	007-AUGUSTA	1067	340	SINGLE	1947	G	104	3	98	B	
8-STAUTON	007-AUGUSTA	1070	250	NEAR-TOTAL RB						C	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
8-STAUTON	007-AUGUSTA	1078	42	SINGLE	1949/1986	G/RK	104	3	98	B	
8-STAUTON	007-AUGUSTA	1079	42	SINGLE	1949	G	104	1	32	B	
8-STAUTON	007-AUGUSTA	1080	11	SINGLE	1930/7	G/RB	101	1	22	C	
8-STAUTON	007-AUGUSTA	1114	42	CORK	1945	G	101	1	23	B	
8-STAUTON	007-AUGUSTA	1128	42	NEAR-TOTAL RB						C	
8-STAUTON	007-AUGUSTA	1132	42	NEAR-TOTAL RB						C	
8-STAUTON	007-AUGUSTA	1140	42	NEAR-TOTAL RB						C	
8-STAUTON	007-AUGUSTA	1143	42	NEAR-TOTAL RB						C	
8-STAUTON	007-AUGUSTA	1148	42	NEAR-TOTAL RB						C	
8-STAUTON	007-AUGUSTA	1156	250	SINGLE	1938/1949	G	101	1	22	C	
8-STAUTON	007-AUGUSTA	1182	252	SOLID	1920	F	101	1	20	A	
8-STAUTON	007-AUGUSTA	1183	252	TOTAL RB						C	11
8-STAUTON	007-AUGUSTA	1185	252	CORK	1945	G	101	1	23	B	
8-STAUTON	007-AUGUSTA	1186	252	CORK	1945	G	101	1	21	B	
8-STAUTON	007-AUGUSTA	1187	252	CORK	1945	G	101	1	22	B	
8-STAUTON	007-AUGUSTA	1201	340	TOTAL RB						C	
8-STAUTON	007-AUGUSTA	1207	340	TOTAL RB						C	
8-STAUTON	007-AUGUSTA	1212	340	CORK	1940	F	101	1	22	B	
8-STAUTON	007-AUGUSTA	6017	608	LOW/PIPE	1940	G	101	1	28	B	
8-STAUTON	007-AUGUSTA	6024	612	CORK	1940	G	101	1	22	B	
8-STAUTON	007-AUGUSTA	6033	613	TOTAL RB						C	
8-STAUTON	007-AUGUSTA	6035	613	TOTAL RB						C	
8-STAUTON	007-AUGUSTA	6063	831	CORK	1925	G	101	2	46	B	
8-STAUTON	007-AUGUSTA	6086	685	SOLID/GONE	1925	P	103	2	70	C	
8-STAUTON	007-AUGUSTA	6100	703	PIPE	1930	G	101	2	48	B	
8-STAUTON	007-AUGUSTA	6104	705	PIPE/POST	1919	G	101	1	27	A	10
8-STAUTON	007-AUGUSTA	6105	707	PIPE	1935	G	101	1	25	B	
8-STAUTON	007-AUGUSTA	6106	707	SOLID	1920	G	101	1	28	A	11
8-STAUTON	007-AUGUSTA	6113	722	SOLID	1909	G	103	1	44	A	21
8-STAUTON	007-AUGUSTA	6119	730	PIPE	1935/----	G/A	101	1	22	B	
8-STAUTON	007-AUGUSTA	6121	731	TOTAL RB						C	
8-STAUTON	007-AUGUSTA	6125	732	TOTAL RB						C	
8-STAUTON	007-AUGUSTA	6135	747	TOTAL RB						C	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
8-STAUJNTON	007-AUGUSTA	6153	786	CORK	1940	G/RK	101	2	38	B	
8-STAUJNTON	007-AUGUSTA	6163	804	SOLID/CURB	1926	A/RK	101	1	25	B	
8-STAUJNTON	007-AUGUSTA	6168	865	PIPE	1940	G	101	1	28	B	
8-STAUJNTON	007-AUGUSTA	6206	907	SINGLE/RAIL	1913/1960'S	F/A	101	2	39	C	
8-STAUJNTON	007-AUGUSTA	6221	762	NEAR-TOTAL RB						C	
8-STAUJNTON	007-AUGUSTA	6224	727	PIPE	1931	G	101	1	22	B	
8-STAUJNTON	007-AUGUSTA	6228	718	TOTAL RB						C	
8-STAUJNTON	007-AUGUSTA	6236	836	PIPE	1930	G	101	1	22	B	
8-STAUJNTON	007-AUGUSTA	6251	737	LOW SOLID	1932	F	101	1	21	B	
8-STAUJNTON	007-AUGUSTA	6262	731	CORK	1930	G	201	2	54	B	
8-STAUJNTON	007-AUGUSTA	6283	613	SOLID	1935	F	101	1	21	A	8
8-STAUJNTON	007-AUGUSTA	6294	732	LOWWATER	1925	G	101	1	27	B	
8-STAUJNTON	007-AUGUSTA	6306	801	PIPE	1930	G	101	1	22	B	
8-STAUJNTON	007-AUGUSTA	6339	732	SOLID	1925	G	101	1	21	A	10
8-STAUJNTON	007-AUGUSTA	6425	624	SINGLE	1948	G	104	4	172	B	
8-STAUJNTON	007-AUGUSTA	6429	814	SOLID	1945	G	104	1	38	B	
8-STAUJNTON	007-AUGUSTA	6430	610	TOTAL RB						C	
8-STAUJNTON	007-AUGUSTA	6432	715	TOTAL RB						C	
8-STAUJNTON	007-AUGUSTA	6433	715	TOTAL RB						C	
8-STAUJNTON	007-AUGUSTA	6458	627	CORK/PIPE	1930	A	101	1	23	B	
8-STAUJNTON	007-AUGUSTA	6478	652	LOWWATER	1925	F	101	1	21	B	
8-STAUJNTON	007-AUGUSTA	6486	871	LOW SOLID W/PIPE	1925	G	101	1	23	B	
8-STAUJNTON	007-AUGUSTA	6492	613	LOW SOLID W/PIPE	1925	G	101	1	22	B	
8-STAUJNTON	007-AUGUSTA	6502	629	TOTAL RB						C	
8-STAUJNTON	007-AUGUSTA	6517	684	LOW SOLID W/PIPE	1925	G	101	1	20	B	
8-STAUJNTON	007-AUGUSTA	6553	1205	SOLID	1925	G	102	1	38	A	
8-STAUJNTON	007-AUGUSTA	6570	652	CORK	1935	G/RK	104	1	37	B	
8-STAUJNTON	007-AUGUSTA	6604	604	LOW SINGLE	1940	G	101	1	25	B	
8-STAUJNTON	007-AUGUSTA	6610	693	TOTAL RB						C	
8-STAUJNTON	007-AUGUSTA	6629	664	SINGLE	1940	G	101	1	20	B	
8-STAUJNTON	008-BAITH	1013	39	CORK	1925	G/RK	104	3	84	B	
8-STAUJNTON	008-BAITH	1016	220	TOTAL RB						C	
8-STAUJNTON	008-BAITH	1041	39	TOTAL RB						C	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
8-STAUTON	008-BATH	1053	220	CORK	1932	P	101	1	23	C	
8-STAUTON	008-BATH	1054	220	CORK	1932	P	101	1	23	C	
8-STAUTON	008-BATH	6039	633	CORK	1932	F	104	1	41	B	
8-STAUTON	008-BATH	6109	629	CORK	1932	G	101	1	23	B	
8-STAUTON	008-BATH	6147	687	TOTAL RB						C	
8-STAUTON	021-CLARKE	1010	340	NEAR-TOTAL RB						C	
8-STAUTON	021-CLARKE	1011	255	CORK	1928/1988	G/RK	104	2	46	B	
8-STAUTON	021-CLARKE	1013	17	CORK	1939	G	101	1	23	B	
8-STAUTON	021-CLARKE	6005	617	CORK	1940	G	101	1	23	B	
8-STAUTON	021-CLARKE	6008	621	NEAR-TOTAL RB						C	
8-STAUTON	021-CLARKE	6905	761	LOWWATER	1928/----	RK	101	4	79	B	
8-STAUTON	034-FREDERICK	1003	11	TOTAL RB						C	
8-STAUTON	034-FREDERICK	1006	17	TOTAL RB						C	
8-STAUTON	034-FREDERICK	1007	50	CORK	1928	P	104	3	84	C	
8-STAUTON	034-FREDERICK	1008	50	CORK	1927	G/RK	104	3	98	B	
8-STAUTON	034-FREDERICK	1011	259	CORK	1939	P	104	1	33	C	
8-STAUTON	034-FREDERICK	1013	522	NEAR-TOTAL RB						C	
8-STAUTON	034-FREDERICK	1014	522	NEAR-TOTAL RB						C	
8-STAUTON	034-FREDERICK	1015	522	CORK	1937	P	104	2	48	C	
8-STAUTON	034-FREDERICK	1017	11	NEAR-TOTAL RB						C	
8-STAUTON	034-FREDERICK	1020	11	NEAR-TOTAL RB						C	
8-STAUTON	034-FREDERICK	1021	522	NEAR-TOTAL RB						C	
8-STAUTON	034-FREDERICK	1022	522	SINGLE	1948	F	104	4	178	B	
8-STAUTON	034-FREDERICK	1024	17	TOTAL RB						C	
8-STAUTON	034-FREDERICK	1030	17	TOTAL RB						C	
8-STAUTON	034-FREDERICK	1995	17	CORK	1941/1987	F/RK	104	4	172	B	
8-STAUTON	034-FREDERICK	1996	55	SINGLE	1942/1958	F/RK	204	3	207	B	
8-STAUTON	034-FREDERICK	6013	608	CURB	1932	G	101	1	30	B	
8-STAUTON	034-FREDERICK	6019	623	CURB	1932	G	101	2	36	B	
8-STAUTON	034-FREDERICK	6024	640	CURB	1920	RK	101	2	22	B	
8-STAUTON	034-FREDERICK	6029	659	CURB	1932	P	101	2	39	B	
8-STAUTON	034-FREDERICK	6041	703	TOTAL RB						C	
8-STAUTON	034-FREDERICK	6044	704	NEAR-TOTAL RB						C	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
8-STAUTON	034-FREDERICK	6049	723	SOLID	1918/1941	RK	102	2	66	A	13
8-STAUTON	034-FREDERICK	6053	671	TOTAL RB						C	
8-STAUTON	034-FREDERICK	6055	608	CURB	1932	P	101	1	23	C	
8-STAUTON	034-FREDERICK	6084	608	8" STEAMPIPE	1932	P	101	1	20	C	
8-STAUTON	034-FREDERICK	6116	645	CURB	1932	P	101	1	20	C	
8-STAUTON	034-FREDERICK	6124	656	GUARDRAIL	1927/1974	G/A	101	1	24	C	
8-STAUTON	034-FREDERICK	6127	659	CURB	1932	G	101	1	20	B	
8-STAUTON	034-FREDERICK	6904	723	SOLID	1918	F	102	3	90	A	14
8-STAUTON	034-FREDERICK	6908	623	LOWWATER	1932	G	101	4	100	B	
8-STAUTON	045-HIGHLAND	1001	84	CORK	1931	G	104	2	66	B	
8-STAUTON	045-HIGHLAND	1005	84	CORK	1930	G	104	1	28	B	
8-STAUTON	045-HIGHLAND	1006	84	CORK	1929	G	104	1	38	B	
8-STAUTON	045-HIGHLAND	1007	84	CORK	1929	G	104	1	48	B	
8-STAUTON	045-HIGHLAND	1008	84	CORK	1929	G	104	1	33	B	
8-STAUTON	045-HIGHLAND	1009	220	CORK	1930/1983	G/RK	104	3	114	B	
8-STAUTON	045-HIGHLAND	1010	220	CORK	1931	G	104	2	86	B	
8-STAUTON	045-HIGHLAND	1011	220	CORK	1930	G	104	2	86	B	
8-STAUTON	045-HIGHLAND	1012	220	CORK	1937	G	104	2	76	B	
8-STAUTON	045-HIGHLAND	1014	250	CORK	1925	G	104	3	114	B	
8-STAUTON	045-HIGHLAND	1015	250	CORK	1927	G	104	1	33	B	
8-STAUTON	045-HIGHLAND	1017	250	CORK	1927	G	104	3	114	B	
8-STAUTON	045-HIGHLAND	1019	250	CORK	1938	G	104	1	43	B	
8-STAUTON	045-HIGHLAND	1025	84	CORK	1930	G	101	1	23	B	
8-STAUTON	045-HIGHLAND	1033	84	CORK	1930	G	101	1	22	B	
8-STAUTON	045-HIGHLAND	1052	220	CORK	1932	G	101	1	21	B	
8-STAUTON	045-HIGHLAND	1064	250	CORK	1925	G	101	1	23	B	
8-STAUTON	069-PAGE	1003	340	CORK	1936	G	104	3	144	B	
8-STAUTON	069-PAGE	1005	340	CORK	1934	G	104	3	129	B	
8-STAUTON	069-PAGE	1006	340	CORK	1934/1935	P	104	4	172	C	
8-STAUTON	069-PAGE	1009	340	TOTAL RB						C	
8-STAUTON	069-PAGE	1011	340	CORK	1927	G	104	1	33	B	
8-STAUTON	069-PAGE	1012	340	CORK	1927	G	104	5	215	B	
8-STAUTON	069-PAGE	1015	211	NEAR-TOTAL RB						C	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
8-STAUTON	069-PAGE	1021	211	CORK	1926	P	101	1	22	C	
8-STAUTON	069-PAGE	1024	340	TOTAL RB						C	
8-STAUTON	069-PAGE	6006	609	TOTAL RB						C	
8-STAUTON	069-PAGE	6010	611	CORK	1928	G	101	3	75	B	
8-STAUTON	069-PAGE	6020	616	CORK	1930	G	101	2	40	B	
8-STAUTON	069-PAGE	6021	616	CORK	1930	F	101	2	36	B	
8-STAUTON	069-PAGE	6023	626	TOTAL RB						C	
8-STAUTON	069-PAGE	6029	642	CORK	1948	F	201	3	66	B	
8-STAUTON	069-PAGE	6030	642	SOLID	1915	G	103	3	105	A	
8-STAUTON	069-PAGE	6037	662	SOLID	1919	F	102	2	68	A	15
8-STAUTON	069-PAGE	6040	718	---	1924	AVG	101	1	24	B	
8-STAUTON	069-PAGE	6049	689	CORK	1929	G	101	3	75	B	
8-STAUTON	069-PAGE	6109	766	CORK	1925	G	104	2	46	B	
8-STAUTON	081-ROCKBRIDGE	1001	11	CORK	1935/1976	G/RK	104	2	72	B	
8-STAUTON	081-ROCKBRIDGE	1008	39	LOWWATER	1935	F	101	3	66	B	
8-STAUTON	081-ROCKBRIDGE	1011	39	CORK	1941	G	104	1	43	B	
8-STAUTON	081-ROCKBRIDGE	1016	42	CORK	1930	P	104	1	43	C	
8-STAUTON	081-ROCKBRIDGE	1025	130	CORK	1930	F/RK	204	3	144	B	
8-STAUTON	081-ROCKBRIDGE	1026	130	CORK	1930	F/RK	104	5	165	B	
8-STAUTON	081-ROCKBRIDGE	1042	501	TOTAL RB						C	
8-STAUTON	081-ROCKBRIDGE	1043	11	VERTICAL	1947	G	101	2	46	B	
8-STAUTON	081-ROCKBRIDGE	1057	11	CORK	1938	G	101	1	23	B	
8-STAUTON	081-ROCKBRIDGE	1099	850	GUARDRAILS	1927	A	101	1	23	C	
8-STAUTON	081-ROCKBRIDGE	1109	130	CORK	1932	G/A	101	2	46	C	
8-STAUTON	081-ROCKBRIDGE	1128	501	TOTAL RB						C	
8-STAUTON	081-ROCKBRIDGE	1130	501	TOTAL RB						C	
8-STAUTON	081-ROCKBRIDGE	1142	850	GUARDRAILS	1932	F	101	1	23	B	
8-STAUTON	081-ROCKBRIDGE	1143	850	CORK	1932	F	101	1	23	B	
8-STAUTON	081-ROCKBRIDGE	6008	602	TOTAL RB						C	
8-STAUTON	081-ROCKBRIDGE	6012	602	TIMBER CURB	1932	G	104	1	30	B	
8-STAUTON	081-ROCKBRIDGE	6025	624	LOWWATER	1932	F	101	4	60	B	
8-STAUTON	081-ROCKBRIDGE	6039	608	SINGLE	1947	G	104	1	42	B	
8-STAUTON	081-ROCKBRIDGE	6044	610	LOWWATER	1932/1984	A	101	6	42	B	

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District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
8-STAUTON	081-ROCKBRIDGE	6046	610	LOWWATER	1932/1984	RB	101	6	42	B	
8-STAUTON	081-ROCKBRIDGE	6058	612	LOW SOLID	1932	G	201	2	44	B	
8-STAUTON	081-ROCKBRIDGE	6085	638	TOTAL RB						C	
8-STAUTON	081-ROCKBRIDGE	6098	645	CORK	1936	G	104	1	43	B	
8-STAUTON	081-ROCKBRIDGE	6100	646	NEAR-TOTAL RB						C	
8-STAUTON	081-ROCKBRIDGE	6106	646	SOLID	1928	G	101	2	48	A	
8-STAUTON	081-ROCKBRIDGE	6117	670	LOWWATER	1932	F	101	6	54	B	
8-STAUTON	081-ROCKBRIDGE	6149	759	CORK	1938	F	104	2	76	B	
8-STAUTON	081-ROCKBRIDGE	6177	692	CORK	1932	G	101	1	22	B	
8-STAUTON	081-ROCKBRIDGE	6183	809	LOWWATER	1932	P	101	4	60	C	
8-STAUTON	081-ROCKBRIDGE	6257	816	2X4	1932	P	101	1	23	C	
8-STAUTON	081-ROCKBRIDGE	6278	780	CORK	1932	G	101	1	23	B	
8-STAUTON	081-ROCKBRIDGE	6288	629	CURB	1932	G	101	1	22	B	
8-STAUTON	081-ROCKBRIDGE	6316	770	SINGLE	1932/?	RB	101	1	22	B	
8-STAUTON	081-ROCKBRIDGE	6364	641	SINGLE	1932	G	101	1	22	B	
8-STAUTON	081-ROCKBRIDGE	6414	792	CORK	1932	G	101	1	23	B	
8-STAUTON	081-ROCKBRIDGE	6420	764	SOLID	1932	G	101	1	21	B	
8-STAUTON	081-ROCKBRIDGE	6430	610	LOWWATER	1932/1984	RB	101	5	40	B	
8-STAUTON	081-ROCKBRIDGE	6431	610	LOWWATER	1932/1984	RB	101	3	24	B	
8-STAUTON	081-ROCKBRIDGE	6437	679	NEAR-TOTAL RB						C	
8-STAUTON	081-ROCKBRIDGE	6441	759	CORK	1938	F	101	1	22	B	
8-STAUTON	081-ROCKBRIDGE	6454	688	I-BEAM	1932	A/F	104	1	22	B	
8-STAUTON	081-ROCKBRIDGE	6513	674/753	LOWWATER	1932	G	101	16	112	A	
8-STAUTON	081-ROCKBRIDGE	6522	623	TOTAL RB						C	
8-STAUTON	081-ROCKBRIDGE	6653	706	SINGLE	1932	A	101/102	1	22	B	
8-STAUTON	082-ROCKINGHAM	1002	11	TOTAL RB						C	
8-STAUTON	082-ROCKINGHAM	1004	340	NEAR-TOTAL RB						C	
8-STAUTON	082-ROCKINGHAM	1006	340	CORK	1939/1986	RK	104	3	98	B	
8-STAUTON	082-ROCKINGHAM	1007	340	SINGLE	1942	F	104	1	43	B	
8-STAUTON	082-ROCKINGHAM	1008	340	SINGLE	1941/1987	G/RK	104	2	66	B	
8-STAUTON	082-ROCKINGHAM	1009	340	SINGLE	1941/1987	G/RK	104	2	86	B	
8-STAUTON	082-ROCKINGHAM	1011	340	SINGLE	1942/1987	G/RK	104	4	172	B	
8-STAUTON	082-ROCKINGHAM	1013	33	CORK	1929	G	201	2	44	B	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Raft Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
8-STAUTON	082-ROCKINGHAM	1014	33	CORK	1928	RK	104	3	114	B	
8-STAUTON	082-ROCKINGHAM	1017	33	CORK	1937	P/RK	104	2	66	B	
8-STAUTON	082-ROCKINGHAM	1018	33	CORK	1938	G	104	1	33	B	
8-STAUTON	082-ROCKINGHAM	1019	33	TOTAL RB						C	
8-STAUTON	082-ROCKINGHAM	1020	33	TOTAL RB						C	
8-STAUTON	082-ROCKINGHAM	1021	33	CORK	1934	F/RK	104	1	43	B	
8-STAUTON	082-ROCKINGHAM	1022	33	CORK	1934	G	104	1	43	B	
8-STAUTON	082-ROCKINGHAM	1023	33	CORK	1935	P	104	3	98	C	
8-STAUTON	082-ROCKINGHAM	1024	42	CORK	1941/1971	G	201	2	36	B	
8-STAUTON	082-ROCKINGHAM	1035	259	TOTAL RB						C	
8-STAUTON	082-ROCKINGHAM	1040	259	SINGLE	1942/1986	G/RK	104	2	76	B	
8-STAUTON	082-ROCKINGHAM	1041	259	SINGLE	1942/1986	F/RK	104	3	129	B	
8-STAUTON	082-ROCKINGHAM	1066	11	SINGLE	1948/1986	G/RK	104	2	86	B	
8-STAUTON	082-ROCKINGHAM	1067	259	SINGLE	1949	G	104	3	129	B	
8-STAUTON	082-ROCKINGHAM	1099	42	TOTAL RB						C	
8-STAUTON	082-ROCKINGHAM	1116	257	CORK	1932	F	101	1	23	C	
8-STAUTON	082-ROCKINGHAM	6021	617	TOTAL RB						C	
8-STAUTON	082-ROCKINGHAM	6079	726	LOWWATER	1940	G	101	1	26	B	
8-STAUTON	082-ROCKINGHAM	6164	881	CORK	1948	G	104	1	33	B	
8-STAUTON	082-ROCKINGHAM	6190	759	PIPE	1945	G	101	1	33	B	
8-STAUTON	082-ROCKINGHAM	6255	721	SOLID	1935	G	101	1	24	B	
8-STAUTON	082-ROCKINGHAM	6257	721	SOLID	1935	G	101	1	22	B	
8-STAUTON	082-ROCKINGHAM	6367	701	TOTAL RB						C	
8-STAUTON	082-ROCKINGHAM	6504	721	SOLID	1925	P	101	1	24	B	
8-STAUTON	082-ROCKINGHAM	6584	996	VERTICAL	1934/1941	G	107	1	28	A	
8-STAUTON	082-ROCKINGHAM	6617	748	LOWWATER	1925/----	G/RK	101	4	64	B	
8-STAUTON	082-ROCKINGHAM	6622	875	NONE	1932/1975	P	101	1	25	C	
8-STAUTON	085-SHENANDOAH	1002	11	VERTICAL	1935	G	101	2	28	B	
8-STAUTON	085-SHENANDOAH	1003	11	NEAR-TOTAL RB						C	
8-STAUTON	085-SHENANDOAH	1004	11	VERTICAL	1934	F	201	2	54	B	
8-STAUTON	085-SHENANDOAH	1006	11	VERTICAL	1932/1969	RK	201	2	36	B	
8-STAUTON	085-SHENANDOAH	1009	11	TOTAL RB						C	
8-STAUTON	085-SHENANDOAH	1010	11	VERTICAL	1934	G	104	3	114	B	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
8-STAUTON	085-SHENANDOAH	1013	55	CORK	1940	F	104	1	43	B	
8-STAUTON	085-SHENANDOAH	1022	11	SINGLE	1934/1956	RB	101	1	23	C	
8-STAUTON	085-SHENANDOAH	1031	42	VERTICAL	1947	G	104	1	43	B	
8-STAUTON	085-SHENANDOAH	1032	55	SINGLE	1949	G	101	2	46	B	
8-STAUTON	085-SHENANDOAH	1035	55	SINGLE	1947	G	104	1	33	B	
8-STAUTON	085-SHENANDOAH	1038	11	CORK	1935/1956	P/RB	101	1	23	C	
8-STAUTON	085-SHENANDOAH	6004	600	LOWWATER	1932/1980	F	101	10	121	B	
8-STAUTON	085-SHENANDOAH	6011	609	LOWWATER	1932	G	101	15	212	A	10
8-STAUTON	085-SHENANDOAH	6039	653	LOWWATER	1932	F	101	3	42	C	
8-STAUTON	085-SHENANDOAH	6040	747	TOTAL RB						C	
8-STAUTON	085-SHENANDOAH	6041	663	GUARDRAILS	1922	A	101	3	90	B	
8-STAUTON	085-SHENANDOAH	6042	663	GUARDRAILS	1922?	A	101	2	44	B	
8-STAUTON	085-SHENANDOAH	6043	663	LOWWATER	1922	G	101	16	293	A	8
8-STAUTON	085-SHENANDOAH	6045	672	LOWWATER	1932	G	101	13	181	B	
8-STAUTON	085-SHENANDOAH	6046	675	CURB	1932	G	101	3	51	B	
8-STAUTON	085-SHENANDOAH	6056	691	LOWWATER	1932	P	101	2	44	C	
8-STAUTON	085-SHENANDOAH	6072	708	TOTAL RB						C	
8-STAUTON	085-SHENANDOAH	6073	709	TOTAL RB						C	
8-STAUTON	085-SHENANDOAH	6074	710	LOWWATER	1929	RK	101	4	76	B	
8-STAUTON	085-SHENANDOAH	6075	729	CURB	1932	G	101	2	50	B	
8-STAUTON	085-SHENANDOAH	6088	730	CURB	1932	P	101	2	36	C	
8-STAUTON	085-SHENANDOAH	6092	744	LOWWATER	1932	G/RK	101	12	204	A	9
8-STAUTON	085-SHENANDOAH	6094	749	TOTAL RB						C	
8-STAUTON	085-SHENANDOAH	6100	730	TOTAL RB						C	
8-STAUTON	085-SHENANDOAH	6111	678	TOTAL RB						C	
8-STAUTON	085-SHENANDOAH	6112	678	CORK	1934	F	101	1	25	B	
8-STAUTON	085-SHENANDOAH	6113	758	LOWWATER	1916	RK	101	3	63	A	8
8-STAUTON	085-SHENANDOAH	6117	769	CURB	1932	G	101	2	42	B	
8-STAUTON	085-SHENANDOAH	6118	772	LOWWATER	1928	RK	101	3	60	B	
8-STAUTON	085-SHENANDOAH	6119	774	LOWWATER	1927	RK	101	3	54	B	
8-STAUTON	085-SHENANDOAH	6120	775	CURB	1932	G	101	3	48	B	
8-STAUTON	085-SHENANDOAH	6121	776	CURB	1932	G	101	2	42	B	
8-STAUTON	085-SHENANDOAH	6138	726	TOTAL RB						C	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
8-STAUTON	085-SHENANDOAH	6175	730	TOTAL RB						C	
8-STAUTON	085-SHENANDOAH	6198	645	TOTAL RB						C	
8-STAUTON	085-SHENANDOAH	6209	669	TOTAL RB						C	
8-STAUTON	085-SHENANDOAH	6217	675	CURB	1932	G	101	1	22	B	
8-STAUTON	085-SHENANDOAH	6224	678	CORK	1932	G	101	1	21	B	
8-STAUTON	085-SHENANDOAH	6225	678	CORK	1932	G	101	1	21	B	
8-STAUTON	085-SHENANDOAH	6227	678	CORK	1934	G	101	1	21	B	
8-STAUTON	085-SHENANDOAH	6252	703	SOLID	1932	F	101	1	23	B	
8-STAUTON	085-SHENANDOAH	6284	758	PIPE	1932	F	101	1	20	B	
8-STAUTON	085-SHENANDOAH	6287	767	CORK	1932	F	101	1	22	B	
8-STAUTON	085-SHENANDOAH	6367	675	CORK	1932	F	101	2	32	B	
8-STAUTON	085-SHENANDOAH	6368	678	CORK	1934	G	101	1	21	A	14
8-STAUTON	093-WARREN	1002	55	CORK	1936	G	101	1	22	B	
8-STAUTON	093-WARREN	1006	522	NEAR-TOTAL RB						C	
8-STAUTON	093-WARREN	1010	55	NEAR-TOTAL RB						C	
8-STAUTON	093-WARREN	1012	55	CORK	1930	P	101	1	23	C	
8-STAUTON	093-WARREN	1013	55	TOTAL RB						C	
8-STAUTON	093-WARREN	1024	522	SOLID/CORK	1932/1947	F	101	1	23	B	
8-STAUTON	093-WARREN	1027	340	NEAR-TOTAL RB						C	
8-STAUTON	093-WARREN	6004	610	LOWWATER	1932	F	101	2	50	B	
8-STAUTON	093-WARREN	6007	613	SOLID	1918	G	102	1	64	A	
8-STAUTON	093-WARREN	6008	613	SOLID	1918	A/RK	102	1	33	B	
8-STAUTON	093-WARREN	6009	613	CURB	1918	G	101	1	23	B	
8-STAUTON	093-WARREN	6011	613	LOWWATER	1923	G	101	13	266	A	8
8-STAUTON	093-WARREN	6012	613	LOWWATER	1918	G	101	1	22	B	
8-STAUTON	093-WARREN	6017	622	SOLID	1918	G	103	2	70	A	N
8-STAUTON	093-WARREN	6019	624	LOWWATER	1925	G	101	16	321	A	9
8-STAUTON	093-WARREN	6027	647	TOTAL RB						C	
8-STAUTON	093-WARREN	6033	649	SOLID/GUARDRAIL	1920/1982	A/RB	101	1	23	C	
8-STAUTON	093-WARREN	6034	649	SOLID/SINGLE	1932/1966	A/RB	101	2	66	C	
8-STAUTON	093-WARREN	6035	649	TOTAL RB						C	
8-STAUTON	093-WARREN	6052	627	SINGLE	1948	G	104	3	126	B	
8-STAUTON	093-WARREN	6053	627	SINGLE	1948	G	104	3	111	B	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
8-STAUTON	093-WARREN	6905	635	LOWWATER	1928/1980	RK	101	4	104	B	
8-STAUTON	103-BUENA VISTA	1041		TOTAL RB						C	
8-STAUTON	103-BUENA VISTA	1082	60	CORK	1932	G	101	1	23	B	
8-STAUTON	103-BUENA VISTA	1801		NEAR-TOTAL RB						C	
8-STAUTON	103-BUENA VISTA	1802		VERTICAL	1940	G	101	1	23	B	
8-STAUTON	103-BUENA VISTA	8002		CURB	1932	G	101	1	25	B	
8-STAUTON	105-CLIFTON FORGE	1803	60/MAIN ST.	SOLID	1917	ARB	104	2	72	C	
8-STAUTON	105-CLIFTON FORGE	8006	LOWELL ST.	VERTICAL	1928	F	104	1	36	A	10
8-STAUTON	105-CLIFTON FORGE	8007	ALLEY	SINGLE/BUILDING	1932	P	104	4	52	C	
8-STAUTON	112-FRONT ROYAL	8007	CRISER ST.	PIPE/GUARDRAIL	1932	F	101	1	28	B	
8-STAUTON	115-HARRISONBURG	1801	11	TOTAL RB						C	
8-STAUTON	115-HARRISONBURG	1802	33	TOTAL RB						C	
8-STAUTON	115-HARRISONBURG	1804	11	TOTAL RB						C	
8-STAUTON	115-HARRISONBURG	6585	COUNTRY CLUB LN.	INB-ICORK	1932	P	101	1	23	C	
8-STAUTON	115-HARRISONBURG	6586	COUNTRY CLUB LN.	----	1932	F	101	1	20	C	
8-STAUTON	115-HARRISONBURG	8003	S. BRUCE ST.	PIPE	1940/----	RB	104	2	36	C	
8-STAUTON	115-HARRISONBURG	8004	WATER ST.	TOTAL RB						C	
8-STAUTON	115-HARRISONBURG	8007	W. WASH. ST.	PIPE	1935	G	101	2	46	B	
8-STAUTON	115-HARRISONBURG	8014	GUY ST.	PIPE/NIB	1938/----	RB	104	1	26	C	
8-STAUTON	117-LEXINGTON	1806	60	CORK	1927	G	104	3	129	B	
8-STAUTON	132-STAUTON	1026	250	TOTAL RB						C	
8-STAUTON	132-STAUTON	1189	MIDDLEBROOK AVE.	CORK	1932	G	101	1	20	B	
8-STAUTON	132-STAUTON	1193	254	TOTAL RB						C	
8-STAUTON	132-STAUTON	1805	11	NEAR-TOTAL RB						C	
8-STAUTON	132-STAUTON	1806	252	SOLID	1932	G	101	1	21	B	
8-STAUTON	132-STAUTON	8002	STP ENT.	PIPE/CURB	1912	G	102	1	25	A	
8-STAUTON	132-STAUTON	8003		TOTAL RB					129	C	
8-STAUTON	132-STAUTON	8004	ENT. PUB. WORKS	TOTAL RB						C	
8-STAUTON	136-WAYNESBORO	8006	DUPONT ENT.	TOTAL RB						C	
8-STAUTON	159-LURAY	1016	211	SINGLE	1923/1957	RB	104	4	170	C	
8-STAUTON	159-LURAY	1800	340	CORK	1933	G	104	4	106	B	
8-STAUTON	159-LURAY	1802	211	VERTICAL	1934	G	104	3	95	B	
A-NORTHERN VA	000-ARLINGTON	1008	244	VERTICAL	1941/1958	G	104	5	188	B	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
A-NORTHERN VA	000-ARLINGTON	1024	27	PIPE/NJB	1944	P/A	107	1	88	B	
A-NORTHERN VA	000-ARLINGTON	1027	50	TOTAL RB						C	
A-NORTHERN VA	000-ARLINGTON	2011	27 (RAMP AA)	PIPE	1942/1992	G	104	3	209	B	
A-NORTHERN VA	000-ARLINGTON	5020	MEMORIAL AVE	HOLLY HEDGE	1945	G	107	2	60	A	23
A-NORTHERN VA	000-ARLINGTON	5069	SMITH BLVD	METAL	1941	G	107	1	36	A	13
A-NORTHERN VA	029-FAIRFAX	1001	1	NEAR-TOTAL RB						C	
A-NORTHERN VA	029-FAIRFAX	1004	1	TOTAL RB						C	
A-NORTHERN VA	029-FAIRFAX	1006	1	TOTAL RB						C	
A-NORTHERN VA	029-FAIRFAX	1014	50	TOTAL RB						C	
A-NORTHERN VA	029-FAIRFAX	1015	50	TOTAL RB						C	
A-NORTHERN VA	029-FAIRFAX	1021	29	CORK/SINGLE	1927/1941	P	104	2	45	B	
A-NORTHERN VA	029-FAIRFAX	1022	29	TOTAL RB						C	
A-NORTHERN VA	029-FAIRFAX	1064	228	TOTAL RB						C	
A-NORTHERN VA	029-FAIRFAX	1069	29	CORK	1932	F	101	1	22	B	
A-NORTHERN VA	029-FAIRFAX	1927	29	TOTAL RB						C	
A-NORTHERN VA	029-FAIRFAX	2146	95	TOTAL RB						C	
A-NORTHERN VA	029-FAIRFAX	2147	95	TOTAL RB						C	
A-NORTHERN VA	029-FAIRFAX	2148	95	TOTAL RB						C	
A-NORTHERN VA	029-FAIRFAX	2149	95	TOTAL RB						C	
A-NORTHERN VA	029-FAIRFAX	2150	95	TOTAL RB						C	
A-NORTHERN VA	029-FAIRFAX	2153	395	TOTAL RB						C	
A-NORTHERN VA	029-FAIRFAX	6044	642	CORK	1935	G/RK	104	2	67	B	
A-NORTHERN VA	029-FAIRFAX	6067	658	TOTAL RB						C	
A-NORTHERN VA	029-FAIRFAX	6210		TOTAL RB						C	
A-NORTHERN VA	029-FAIRFAX	6332	3546	SOLID	1920	G	101	1	23	A	10
A-NORTHERN VA	053-LOUDOUN	1004	712	CORK	1930	G	104	1	33	B	
A-NORTHERN VA	053-LOUDOUN	1006	9	TOTAL RB						C	
A-NORTHERN VA	053-LOUDOUN	1007	9	TOTAL RB						C	
A-NORTHERN VA	053-LOUDOUN	1020	287	CORK	1938	F	104	1	48	B	
A-NORTHERN VA	053-LOUDOUN	1021	287	TOTAL RB						C	
A-NORTHERN VA	053-LOUDOUN	1022	287	CORK	1938	F/RK	104	3	113	B	
A-NORTHERN VA	053-LOUDOUN	1026	50	CORK	1929	F	104	1	28	B	
A-NORTHERN VA	053-LOUDOUN	1034	7	TOTAL RB						C	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
A-NORTHERN VA	053-LOUDOUN	1039	9	CORK	1933	F	101	1	23	B	
A-NORTHERN VA	053-LOUDOUN	1096	50	SOLID	1935	P	101	1	23	B	
A-NORTHERN VA	053-LOUDOUN	6002	607	SOLID	1914	G	101	3	66	A	11
A-NORTHERN VA	053-LOUDOUN	6004	611	CORK	1932	G	104	1	38	B	
A-NORTHERN VA	053-LOUDOUN	6006	611	SOLID	1925	F	101	1	22	B	
A-NORTHERN VA	053-LOUDOUN	6011	619	SOLID	1925	G	101	1	22	B	
A-NORTHERN VA	053-LOUDOUN	6020	719	SOLID	1919	G/RK	102	1	35	A	15
A-NORTHERN VA	053-LOUDOUN	6032	629	LOW SOLID-PIPE	1911	G	103	2	62	A	16
A-NORTHERN VA	053-LOUDOUN	6052	673	SOLID	1932	F	101	1	24	B	
A-NORTHERN VA	053-LOUDOUN	6058	690	CORK	1932	G/RK	104	2	65	B	
A-NORTHERN VA	053-LOUDOUN	6059	690	SOLID	1932	G/RK	101	1	23	B	
A-NORTHERN VA	053-LOUDOUN	6066	704	CORK	1936	F	101	1	22	B	
A-NORTHERN VA	053-LOUDOUN	6067	704	CORK	1930	F	101	1	23	B	
A-NORTHERN VA	053-LOUDOUN	6072	630	SOLID	1915	P	101	2	35	B	
A-NORTHERN VA	053-LOUDOUN	6086	734	TOTAL RB						C	
A-NORTHERN VA	053-LOUDOUN	6182	722	LOW SOLID	1929	G	101	1	20	B	
A-NORTHERN VA	053-LOUDOUN	6264	716	TOTAL RB						C	
A-NORTHERN VA	053-LOUDOUN	6450	722	LOW SOLID	1932	G	101	1	20	B	
A-NORTHERN VA	076-PRINCE WILLIAM	1001	1	NEAR-TOTAL RB						C	
A-NORTHERN VA	076-PRINCE WILLIAM	1003	1	TOTAL RB						C	
A-NORTHERN VA	076-PRINCE WILLIAM	1004	1	TOTAL RB						C	
A-NORTHERN VA	076-PRINCE WILLIAM	1010	29	TOTAL RB						C	
A-NORTHERN VA	076-PRINCE WILLIAM	1011	29	TOTAL RB						C	
A-NORTHERN VA	076-PRINCE WILLIAM	1032	215	TOTAL RB						C	
A-NORTHERN VA	076-PRINCE WILLIAM	1035	15	TOTAL RB						C	
A-NORTHERN VA	076-PRINCE WILLIAM	1036	15	TOTAL RB						C	
A-NORTHERN VA	076-PRINCE WILLIAM	1059	29	TOTAL RB						C	
A-NORTHERN VA	076-PRINCE WILLIAM	1900	15	TOTAL RB						C	
A-NORTHERN VA	076-PRINCE WILLIAM	5002	RANGE RD	TOTAL RB						C	
A-NORTHERN VA	076-PRINCE WILLIAM	5004	GEIGER ROAD	SOLID	1942	G	104	1	24	B	
A-NORTHERN VA	076-PRINCE WILLIAM	5006	JULIAN DRIVE	METAL/FENCE	1942	G	104	1	33	B	
A-NORTHERN VA	076-PRINCE WILLIAM	6055	637	TOTAL RB						C	
A-NORTHERN VA	076-PRINCE WILLIAM	6056	638	TOTAL RB						C	

Inventory of Pre-1950 Non-Arched Concrete Bridges

District	County	Bridge #	Route #/Street	Rail Type	Date	Cond.	Span Type	Spans	Total Len.	Sign.	Historical Rating
A-NORTHERN VA	151-FARFAX	1802	VINT HILL RD.	NEAR-TOTAL RB						C	

TABLATIONS OF RAIL TYPES FOR PRE-1950 NON-ARCHED CONCRETE BRIDGES

District/County-City	Cork	Vertical	Single	Pipe	Solid	Curb	Lowwater	Low Solid	Guardrails	Other	RB	Total
Bristol (1)												
Bland (10)	8	0	2	0	0	0	0	0	0	0	9	19
Buchanan (13)	2	1	0	0	0	0	0	0	0	0	2	5
Dickenson (25)	0	0	1	0	3	0	0	0	0	0	3	7
Grayson (38)	8	0	2	0	0	0	0	0	0	0	5	15
Lee (52)	11	0	0	0	2	1	0	0	0	0	10	24
Russell (83)	2	0	3	0	2	0	0	0	0	0	12	19
Scott (84)	7	0	0	0	0	0	1	0	0	0	5	13
Smyth (86)	11	1	0	0	2	3	1	0	1	2	11	32
Tazewell (92)	5	0	1	0	7	1	0	1	0	0	10	25
Washington (95)	7	0	1	0	2	0	0	0	0	1	10	21
Wise (97)	5	0	1	0	3	0	0	0	0	0	12	21
Wythe (98)	11	0	1	0	1	0	0	0	0	0	3	16
Big Stone Gap (101)	2	0	0	0	0	0	0	0	0	0	0	2
Bristol (102)	1	1	0	5	4	0	0	0	0	3	1	15
Marion (119)	0	0	0	0	0	0	0	0	0	4	2	6
Abingdon (140)	1	0	0	0	0	0	0	0	1	0	1	3
Bluefield (143)	0	0	0	0	0	0	0	0	0	0	1	1
Norton (146)	0	0	0	0	1	0	0	0	0	0	0	1
Richlands (148)	0	0	0	0	0	0	0	0	0	0	1	1
Tazewell (158)	2	0	0	1	1	0	0	0	0	0	2	6
Lebanon (252)	2	0	0	0	1	0	0	0	0	0	1	4
District Total	85	3	12	6	29	5	2	1	2	10	101	256
Salem (2)												
Bedford (9)	10	0	2	0	1	0	2	0	0	0	1	16
Botetourt (11)	15	1	0	0	0	0	0	2	0	0	3	21
Carroll (17)	4	1	3	0	0	0	0	0	0	0	6	14

TABLATIONS OF RAIL TYPES FOR PRE-1950 NON-ARCHED CONCRETE BRIDGES

District/County-City	Cork	Vertical	Single	Pipe	Solid	Curb	Lowwater	Low Solid	Guardrails	Other	RB	Total
Craig (22)	6	0	2	0	0	0	0	0	0	0	1	9
Floyd (31)	12	0	0	0	0	0	0	0	0	0	6	18
Franklin (33)	4	0	4	0	0	0	0	0	0	0	4	12
Giles (35)	2	1	2	1	1	0	2	0	0	1	0	10
Henry (44)	1	0	0	0	0	0	0	0	0	0	8	9
Montgomery (60)	5	0	2	0	0	0	0	0	0	0	5	12
Patrick (70)	16	0	6	0	1	0	0	0	0	0	3	26
Pulaski (77)	6	0	0	0	1	1	0	1	0	0	4	13
Roanoke (80)	6	1	4	0	5	0	0	0	0	2	3	21
Galax (113)	0	0	1	0	0	0	0	0	0	0	0	1
Martinsville (120)	0	0	0	0	1	0	0	0	0	0	0	1
Pulaski (125)	1	0	0	0	1	0	0	0	0	3	0	5
Radford (126)	1	0	0	0	0	0	0	0	0	0	0	1
Roanoke (128)	3	0	1	1	3	0	1	0	0	1	4	14
Salem (129)	1	2	0	1	0	0	0	0	0	0	1	5
Vinton (149)	0	0	0	0	0	0	1	0	0	0	0	1
Christiansburg (154)	0	0	1	0	0	0	0	0	0	0	2	3
District Total	93	6	28	3	14	1	6	3	0	7	51	212
Lynchburg (3)												
Amherst (5)	12	0	3	0	0	0	0	0	0	5	5	25
Appomattox (6)	3	0	1	0	0	0	0	0	0	1	2	7
Buckingham (14)	5	0	0	0	0	0	0	0	0	0	3	8
Campbell (15)	4	0	0	0	0	0	0	0	0	0	3	7
Charlotte (19)	10	0	0	0	0	0	0	0	0	0	1	11
Cumberland (24)	3	0	0	0	0	0	0	0	0	0	0	3
Halifax (41)	12	0	3	0	0	0	0	0	0	1	2	18
Nelson (62)	12	0	0	0	0	0	0	0	0	2	3	17

TABLATIONS OF RAIL TYPES FOR PRE-1950 NON-ARCHED CONCRETE BRIDGES

District/County-City	Cork	Vertical	Single	Pipe	Solid	Curb	Lowwater	Low Solid	Guardrails	Other	RB	Total
Pittsylvania (71)	15	0	2	0	1	0	0	0	0	0	4	22
Prince Edward (73)	1	0	4	0	0	0	0	0	0	0	1	6
Danville (108)	2	2	0	0	0	0	0	0	0	1	1	6
Lynchburg (118)	1	0	1	0	2	0	0	0	0	0	4	8
Farmville (144)	0	1	0	0	0	0	0	0	0	0	0	1
District Total	80	3	14	0	3	0	0	0	0	10	29	139
Richmond (4)												
Amelia	0	0	1	0	1	0	0	0	0	0	2	4
Brunswick	1	0	2	0	0	0	0	0	0	0	5	8
Charles City	0	0	0	0	1	0	0	0	0	0	1	2
Chesterfield	9	0	2	0	0	0	0	0	0	1	10	22
Dinwiddie	4	0	0	0	0	0	0	0	0	0	2	6
Goochland	4	0	0	0	0	0	0	0	0	0	5	9
Hanover	0	0	0	0	2	0	0	1	0	0	7	10
Henrico	1	2	1	0	1	0	0	0	0	0	5	10
Lunenburg	2	0	2	0	1	0	0	0	0	1	0	6
Mecklenburg	2	0	1	0	0	0	0	0	0	0	5	8
New Kent	3	0	3	0	0	0	0	0	0	0	4	10
Nottoway	0	0	1	0	0	0	0	0	0	0	2	3
Powhatan	5	0	0	0	1	0	0	0	0	1	0	7
Prince George	1	0	0	0	0	0	0	0	0	0	5	6
Petersburg	0	2	0	1	0	0	0	0	0	1	2	6
Richmond	0	1	0	1	1	0	0	0	0	1	2	6
District Total	32	5	13	2	8	0	0	1	0	5	57	123
Suffolk (5)												

TABLATIONS OF RAIL TYPES FOR PRE-1950 NON-ARCHED CONCRETE BRIDGES

District/County-City	Cork	Vertical	Single	Pipe	Solid	Curb	Lowwater	Low Solid	Guardrails	Other	RB	Total
Accomack (01)	0	0	0	0	0	0	0	0	0	0	0	0
Greenville (40)	2	0	0	0	1	0	0	0	0	1	0	4
Isle of Wight (46)	1	0	0	0	0	0	0	0	0	0	3	4
James City (47)	0	0	0	0	0	0	0	0	0	0	0	0
Northampton (65)	0	0	0	0	0	0	0	0	0	0	0	0
Southampton (87)	0	2	1	0	0	0	0	0	0	0	3	6
Surry (90)	0	0	0	0	0	0	0	0	0	0	4	4
Sussex (91)	1	0	0	0	1	0	0	0	1	0	2	5
York (99)	1	0	0	0	0	0	0	0	0	0	1	2
Hampton (114)	1	0	0	0	0	0	0	0	0	1	1	3
Newport News (121)	1	0	0	0	0	0	0	0	0	0	3	4
Norfolk (122)	1	2	1	0	0	0	0	0	0	1	1	6
Portsmouth (124)	0	0	1	0	0	0	0	0	0	0	0	1
Chesapeake (131)	2	0	1	0	0	0	0	0	0	0	0	3
Suffolk (133)	4	0	1	0	0	0	0	0	0	0	0	5
District Total	14	4	5	0	2	0	0	0	1	3	18	47
<hr/>												
Fredericksburg (6)												
Caroline (16)	2	0	0	0	0	1	0	0	0	0	11	14
Essex (28)	1	0	0	0	1	0	0	0	0	0	0	2
Gloucester (36)	3	0	1	0	0	0	0	0	0	0	0	4
King George (48)	0	0	1	0	0	0	0	0	0	0	0	1
King & Queen (49)	1	0	0	0	0	0	0	0	0	0	0	1
King William (50)	0	0	0	0	0	0	0	0	0	0	0	0
Lancaster (51)	2	0	0	0	0	0	0	0	0	0	1	3
Mathews (57)	0	0	2	0	0	0	0	0	0	0	0	2
Middlesex (59)	1	0	0	0	0	0	0	0	0	0	0	1
Northumberland (66)	1	0	0	0	0	0	0	0	0	0	0	1

TABLATIONS OF RAIL TYPES FOR PRE-1950 NON-ARCHED CONCRETE BRIDGES

District/County-City	Cork	Vertical	Single	Pipe	Solid	Curb	Lowwater	Low Solid	Guardrails	Other	RB	Total
Richmond (79)	1	0	0	0	0	0	0	0	0	0	2	3
Spotsylvania (88)	3	0	0	0	0	0	0	0	0	0	4	7
Stafford (89)	1	0	1	1	1	0	0	0	0	1	2	7
Westmoreland (96)	1	0	0	0	0	0	0	1	0	0	3	5
Fredericksburg (111)	1	2	0	0	0	0	0	0	0	0	1	4
District Total	18	2	5	1	2	1	0	1	0	1	24	55
Culpeper (7)												
Albemarle (2)	11	0	2	0	5	0	1	0	1	1	12	33
Culpeper (23)	2	0	1	0	4	0	1	0	0	0	8	16
Fauquier (30)	16	0	0	0	9	2	0	0	0	2	10	39
Fluvanna (32)	2	0	0	0	0	0	0	0	0	0	0	2
Greene (39)	2	0	1	0	0	0	0	0	0	0	0	3
Louisa (54)	0	0	0	0	0	0	0	0	0	0	4	4
Madison (56)	5	0	0	0	0	0	0	0	0	0	4	9
Orange (68)	0	0	0	0	0	0	0	0	0	0	6	6
Rappahannock (78)	6	0	0	0	2	0	2	0	1	0	12	23
Charlottesville (104)	0	0	0	0	2	0	0	0	0	0	0	2
Culpeper (204)	0	0	0	0	0	0	0	0	0	0	2	2
District Total	44	0	4	0	22	2	4	0	2	3	58	139
Staunton (8)												
Alleghany (3)	15	1	9	0	0	0	0	1	0	1	4	31
Augusta (7)	17	1	14	8	7	0	2	1	0	10	24	84
Bath (8)	5	0	0	0	0	0	0	0	0	0	3	8
Clarke (21)	3	0	0	0	0	0	1	0	0	0	2	6
Frederick (34)	5	0	2	0	2	7	1	0	1	1	12	31

TABLATIONS OF RAIL TYPES FOR PRE-1950 NON-ARCHED CONCRETE BRIDGES

District/County-City	Cork	Vertical	Single	Pipe	Solid	Curb	Lowwater	Low Solid	Guardrails	Other	RB	Total
Highland (45)	17	0	0	0	0	0	0	0	0	0	0	17
Page (69)	12	0	0	0	2	0	0	0	0	1	5	20
Rockbridge (81)	14	1	4	0	2	1	9	1	2	3	8	45
Rockingham (82)	11	1	8	1	3	0	2	0	0	1	8	35
Shenandoah (85)	9	5	3	1	1	7	11	0	2	0	12	51
Warren (93)	2	0	2	0	3	1	5	0	0	3	6	22
Buena Vista (103)	1	1	0	0	0	1	0	0	0	0	2	5
Clifton Forge (105)	0	1	0	0	1	0	0	0	0	1	0	3
Front Royal (112)	0	0	0	0	0	0	0	0	0	1	0	1
Harrisonburg (115)	0	0	0	2	0	0	0	0	0	3	4	9
Lexington (117)	1	0	0	0	0	0	0	0	0	0	0	1
Staunton (132)	1	0	0	0	1	0	0	0	0	1	5	8
Waynesboro (136)	0	0	0	0	0	0	0	0	0	0	1	1
Luray (159)	1	1	1	0	0	0	0	0	0	0	0	3
District Total	114	12	43	12	22	17	31	3	5	26	96	381
Northern Virginia (A)												
Arlington (00)	0	1	0	1	0	0	0	0	0	3	1	6
Fairfax (29)	2	0	0	0	1	0	0	0	0	1	16	20
Loudoun (53)	9	0	0	0	8	0	0	2	0	1	6	26
Prince William (76)	0	0	0	0	1	0	0	0	0	1	13	15
Fairfax (151)	0	0	0	0	0	0	0	0	0	0	1	1
District Total	11	1	0	1	10	0	0	2	0	6	37	68
State Total	491	36	124	25	112	26	43	11	10	71	471	1420

TABLATIONS OF SPAN TYPES FOR PRE-1950 NON-ARCHED CONCRETE BRIDGES

District/County-City	101	102	103	104	107	201	202	203	204	207	RB	Total
Bristol (1)												
Bland (10)	4	0	0	6	0	0	0	0	0	0	9	19
Buchanan (13)	1	0	0	1	1	0	0	0	0	0	2	5
Dickenson (25)	3	0	0	1	0	0	0	0	0	0	3	7
Grayson (38)	4	0	0	6	0	0	0	0	0	0	5	15
Lee (52)	7	1	0	6	0	0	0	0	0	0	10	24
Russell (83)	1	2	0	4	0	0	0	0	0	0	12	19
Scott (84)	4	0	0	4	0	0	0	0	0	0	5	13
Smyth (86)	12	0	0	9	0	0	0	0	0	0	11	32
Tazewell (92)	8	2	0	5	0	0	0	0	0	0	10	25
Washington (95)	8	0	0	3	0	0	0	0	0	0	10	21
Wise (97)	2	1	1	5	0	0	0	0	0	0	12	21
Wythe (98)	11	0	0	2	0	0	0	0	0	0	3	16
Big Stone Gap (101)	0	0	0	2	0	0	0	0	0	0	0	2
Bristol (102)	4	1	0	8	0	0	0	0	0	1	1	15
Marion (119)	1	0	0	2	1	0	0	0	0	0	2	6
Abingdon (140)	1	0	0	1	0	0	0	0	0	0	1	3
Bluefield (143)	0	0	0	0	0	0	0	0	0	0	1	1
Norton (146)	1	0	0	0	0	0	0	0	0	0	0	1
Richlands (148)	0	0	0	0	0	0	0	0	0	0	1	1
Tazewell (158)	1	1	0	2	0	0	0	0	0	0	2	6
Lebanon (252)	0	1	0	2	0	0	0	0	0	0	1	4
District Total	73	9	1	69	2	0	0	0	0	1	101	256
Salem (2)												
Bedford (9)	4	1	0	10	0	0	0	0	0	0	1	16
Botetourt (11)	12	0	0	5	0	1	0	0	0	0	3	21
Carroll (17)	2	0	0	6	0	0	0	0	0	0	6	14

TABLATIONS OF SPAN TYPES FOR PRE-1950 NON-ARCHED CONCRETE BRIDGES

District/County-City	101	102	103	104	107	201	202	203	204	207	RB	Total	
Craig (22)	5	0	0	3	0	0	0	0	0	0	0	1	9
Floyd (31)	0	0	0	12	0	0	0	0	0	0	0	6	18
Franklin (33)	3	0	0	5	0	0	0	0	0	0	4	4	12
Giles (35)	4	1	0	5	0	0	0	0	0	0	0	0	10
Henry (44)	0	0	0	1	0	0	0	0	0	0	0	8	9
Montgomery (60)	4	0	0	3	0	0	0	0	0	0	5	5	12
Patrick (70)	5	1	0	17	0	0	0	0	0	0	3	3	26
Pulaski (77)	4	0	0	3	0	2	0	0	0	0	4	4	13
Roanoke (80)	7	2	1	7	0	1	0	0	0	0	3	3	21
Galax (113)	0	0	0	1	0	0	0	0	0	0	0	0	1
Martinsville (120)	0	0	0	1	0	0	0	0	0	0	0	0	1
Pulaski (125)	2	0	0	3	0	0	0	0	0	0	0	0	5
Radford (126)	0	0	0	1	0	0	0	0	0	0	0	0	1
Roanoke (128)	8	0	0	2	0	0	0	0	0	0	4	4	14
Salem (129)	1	0	0	1	1	0	0	0	1	0	1	1	5
Vinton (149)	1	0	0	0	0	0	0	0	0	0	0	0	1
Christiansburg (154)	1	0	0	0	0	0	0	0	0	0	2	2	3
District Total	63	5	1	86	1	4	0	0	1	0	51	51	212
Lynchburg (3)													
Amherst (5)	9	0	0	11	0	0	0	0	0	0	5	5	25
Appomattox (6)	0	0	0	5	0	0	0	0	0	0	2	2	7
Buckingham (14)	2	0	0	3	0	0	0	0	0	0	3	3	8
Campbell (15)	1	0	0	2	0	1	0	0	0	0	3	3	7
Charlottesville (19)	4	0	0	6	0	0	0	0	0	0	1	1	11
Cumberland (24)	3	0	0	0	0	0	0	0	0	0	0	0	3
Halifax (41)	1	0	0	14	1	0	0	0	0	0	2	2	18
Nelson (62)	4	0	0	10	0	0	0	0	0	0	3	3	17

TABLATIONS OF SPAN TYPES FOR PRE-1950 NON-ARCHED CONCRETE BRIDGES

District/County-City	101	102	103	104	107	201	202	203	204	207	RB	Total
Pittsylvania (71)	7	0	0	11	0	0	0	0	0	0	4	22
Prince Edward (73)	1	0	0	4	0	0	0	0	0	0	1	6
Danville (108)	0	0	0	5	0	0	0	0	0	0	1	6
Lynchburg (118)	3	0	0	1	0	0	0	0	0	0	4	8
Farmville (144)	0	0	0	1	0	0	0	0	0	0	0	1
District Total	35	0	0	73	1	1	0	0	0	0	29	139
Richmond (4)												
Amelia (05)	1	0	0	1	0	0	0	0	0	0	2	4
Brunswick (14)	0	0	0	3	0	0	0	0	0	0	5	8
Charles City (18)	0	1	0	0	0	0	0	0	0	0	1	2
Chesterfield (20)	6	0	0	6	0	0	0	0	0	0	10	22
Dinwiddie (26)	1	0	0	3	0	0	0	0	0	0	2	6
Goochland (37)	1	0	0	3	0	0	0	0	0	0	5	9
Hanover (42)	1	0	2	0	0	0	0	0	0	0	7	10
Henrico (43)	3	0	0	1	0	0	0	0	0	1	5	10
Lunenburg (55)	3	0	0	3	0	0	0	0	0	0	0	6
Mecklenburg (58)	1	0	0	2	0	0	0	0	0	0	5	8
New Kent (63)	2	0	0	4	0	0	0	0	0	0	4	10
Nottoway (67)	0	0	0	1	0	0	0	0	0	0	2	3
Powhatan (72)	3	0	0	4	0	0	0	0	0	0	0	7
Prince George (74)	0	0	0	1	0	0	0	0	0	0	5	6
Petersburg(123)	1	0	0	1	0	0	0	0	2	0	2	6
Richmond (127)	1	0	0	0	0	0	1	1	1	1	2	6
District Total	24	1	2	33	0	0	1	1	3	1	57	123
Suffolk (5)												

TABLATIONS OF SPAN TYPES FOR PRE-1950 NON-ARCHED CONCRETE BRIDGES

District/County-City	101	102	103	104	107	201	202	203	204	207	RB	Total
Accomack (01)	0	0	0	0	0	0	0	0	0	0	0	0
Greensville (40)	1	1	0	2	0	0	0	0	0	0	0	4
Isle of Wight (46)	0	0	0	1	0	0	0	0	0	0	3	4
James City (47)	0	0	0	0	0	0	0	0	0	0	0	0
Northampton (65)	0	0	0	0	0	0	0	0	0	0	0	0
Southampton (87)	0	0	0	3	0	0	0	0	0	0	3	6
Surry (90)	0	0	0	0	0	0	0	0	0	0	4	4
Sussex (91)	1	1	0	1	0	0	0	0	0	0	2	5
York (99)	0	0	0	1	0	0	0	0	0	0	1	2
Hampton (114)	1	0	0	1	0	0	0	0	0	0	1	3
Newport News (121)	0	0	0	1	0	0	0	0	0	0	3	4
Norfolk (122)	0	0	0	3	0	1	0	0	1	0	1	6
Portsmouth (124)	1	0	0	0	0	0	0	0	0	0	0	1
Chesapeake (131)	2	0	0	1	0	0	0	0	0	0	0	3
Suffolk (133)	1	0	0	4	0	0	0	0	0	0	0	5
District Total	7	2	0	18	0	1	0	0	1	0	18	47
Fredericksburg (6)												
Caroline (16)	2	0	0	1	0	0	0	0	0	0	11	14
Essex (28)	1	0	1	0	0	0	0	0	0	0	0	2
Gloucester (36)	0	0	0	4	0	0	0	0	0	0	0	4
King George (48)	0	0	0	1	0	0	0	0	0	0	0	1
King & Queen (49)	1	0	0	0	0	0	0	0	0	0	0	1
King William (50)	0	0	0	0	0	0	0	0	0	0	0	0
Lancaster (51)	1	0	0	1	0	0	0	0	0	0	1	3
Mathews (57)	0	0	0	2	0	0	0	0	0	0	0	2
Middlesex (59)	0	0	0	1	0	0	0	0	0	0	0	1
Northumberland (66)	0	0	0	1	0	0	0	0	0	0	0	1

TABLATIONS OF SPAN TYPES FOR PRE-1950 NON-ARCHED CONCRETE BRIDGES

District/County-City	101	102	103	104	107	201	202	203	204	207	RB	Total
Richmond (79)	0	0	0	1	0	0	0	0	0	0	0	3
Spotsylvania (88)	2	0	0	1	0	0	0	0	0	0	0	7
Stafford (89)	2	0	0	2	0	0	0	0	0	1	2	7
Westmoreland (96)	1	0	0	1	0	0	0	0	0	0	3	5
Fredericksburg (111)	0	0	0	2	0	0	0	0	1	0	1	4
District Total	10	0	1	18	0	0	0	0	1	1	24	55
Culpeper (7)												
Albemarle (2)	15	0	0	4	1	1	0	0	0	0	0	33
Culpeper (23)	5	0	2	1	0	0	0	0	0	0	8	16
Fauquier (30)	23	3	0	1	0	2	0	0	0	0	10	39
Fluvanna (32)	0	0	0	2	0	0	0	0	0	0	0	2
Greene (39)	1	0	0	2	0	0	0	0	0	0	0	3
Louisa (54)	0	0	0	0	0	0	0	0	0	0	4	4
Madison (56)	0	0	0	5	0	0	0	0	0	0	4	9
Orange (68)	0	0	0	0	0	0	0	0	0	0	6	6
Rappahannock (78)	6	1	0	4	0	0	0	0	0	0	12	23
Charlottesville (104)	1	0	0	1	0	0	0	0	0	0	0	2
Culpeper (204)	0	0	0	0	0	0	0	0	0	0	2	2
District Total	51	4	2	20	1	3	0	0	0	0	58	139
Staunton (8)												
Alleghany (3)	12	0	0	14	0	0	0	0	1	0	4	31
Augusta (7)	40	1	2	16	0	1	0	0	0	0	24	84
Bath (8)	3	0	0	2	0	0	0	0	0	0	3	8
Clarke (21)	3	0	0	1	0	0	0	0	0	0	2	6
Frederick (34)	10	2	0	6	0	0	0	0	1	0	12	31

TABLATIONS OF SPAN TYPES FOR PRE-1950 NON-ARCHED CONCRETE BRIDGES

District/County-City	101	102	103	104	107	201	202	203	204	207	RB	Total
Highland (45)	4	0	0	13	0	0	0	0	0	0	0	17
Page (69)	6	1	1	6	0	1	0	0	0	0	5	20
Rockbridge (81)	26	0	0	9	0	1	0	0	1	0	8	45
Rockingham (82)	8	0	0	16	1	2	0	0	0	0	8	35
Shenandoah (85)	33	0	0	4	0	2	0	0	0	0	12	51
Warren (93)	11	2	1	2	0	0	0	0	0	0	6	22
Buena Vista (103)	3	0	0	0	0	0	0	0	0	0	2	5
Clifton Forge (105)	0	0	0	3	0	0	0	0	0	0	0	3
Front Royal (112)	1	0	0	0	0	0	0	0	0	0	0	1
Harrisonburg (115)	3	0	0	2	0	0	0	0	0	0	4	9
Lexington (117)	0	0	0	1	0	0	0	0	0	0	0	1
Staunton (132)	2	1	0	0	0	0	0	0	0	0	5	8
Waynesboro (136)	0	0	0	0	0	0	0	0	0	0	1	1
Luray (159)	0	0	0	3	0	0	0	0	0	0	0	3
District Total	165	7	4	98	1	7	0	0	3	0	96	381
Northern Virginia (A)												
Arlington (00)	0	0	0	2	3	0	0	0	0	0	1	6
Fairfax (29)	2	0	0	2	0	0	0	0	0	0	16	20
Loudoun (53)	12	1	1	6	0	0	0	0	0	0	6	26
Prince William (76)	0	0	0	2	0	0	0	0	0	0	13	15
Fairfax (151)	0	0	0	0	0	0	0	0	0	0	1	1
District Total	14	1	1	12	3	0	0	0	0	0	37	68
State Total	442	29	12	427	9	16	1	1	1	9	3	471