

**Name/Address:** Northern Central Railway Engineering Structures Historic District

**Construction Date:** ca. 1854-1865

**Town/Vicinity:**

**County:** Baltimore City and Baltimore County

**Access:** public/private

**Summary Description:**

Between 1854 and 1865, several different types of structures, including box and round arch culverts and one- and two-span bridges, were constructed along the Northern Central Railway alignment. Culvert type appears to be related to the distance spanned; three to four-foot spans were typically made with a simple box culvert consisting of a stone lintel atop several courses of rock-faced ashlar with chiseled margins; five- to approximately twelve-foot spans were made with round arches and barrel vaults. Larger culverts (up to twenty feet) and bridges (over twenty feet) consist of stone abutments and stepped wing walls which would have been spanned originally with timber or iron trusses. In nearly all cases, the original spans have been replaced with standardized reinforced concrete slabs and plate-girders, leaving abutments, wing walls, and piers intact. A unique corbelled culvert located south of the Falls Road Station appears to have been designed and executed to demonstrate the skill of the mason. In most cases, the granite employed by the masons is rock-faced coursed ashlar.

**Statement of Significance**

Between Woodberry, in the city of Baltimore and Warren Road in Baltimore County, at least 31 examples of mid-nineteenth-century railroad engineering structures survive intact and in service on these 12.5 miles of the MTA light rail line. Most of the extant culverts and bridges were constructed between 1854 and 1865 by the Northern Central Railway (NCR), an important passenger and freight line that from its inception in 1828 as the Baltimore and Susquehanna Railroad to its reincarnation as the Central Light Rail has been ultimately responsible for the settlement patterns and economic development of Baltimore County. The NCR culverts and bridges reflect standardized types of box and round-arch culverts, and bridge abutments and piers. Modern alterations have been made to the decks of the bridges and some of the culverts have been reinforced or extended with concrete. Overall, the structures retain integrity as a discontinuous district comprised of standardized engineering structures built to serve the NCR in the mid- to late nineteenth century. The district appears to meet the eligibility requirements for listing in the National Register under criterion C.

# Maryland Historical Trust State Historic Sites Inventory Form

MARYLAND INVENTORY OF  
HISTORIC PROPERTIES

Survey No. B-1305/  
BA-2874  
Magi No.  
DOE  yes  no

## 1. Name (indicate preferred name)

historic Northern Central Railway Engineering Structures Historic District

and/or common Northern Central Railway Engineering Structures Historic District

## 2. Location

street & number discontinuous district along the MTA light rail corridor between Woodberry and Texas  not for publication

city, town Baltimore City, Baltimore County  vicinity of congressional district

state Maryland county Baltimore City and Baltimore County

## 3. Classification

### Category

- district  
 building(s)  
 structure  
 site  
 object

### Ownership

- public  
 private  
 both

### Public Acquisition

- in process  
 being considered  
 not applicable

### Status

- occupied  
 unoccupied  
 work in progress

### Accessible

- yes: restricted  
 yes: unrestricted  
 no

### Present Use

- agriculture  
 commercial  
 educational  
 entertainment  
 government  
 industrial  
 military

- museum  
 park  
 private residence  
 religious  
 scientific  
 transportation  
 other:

## 4. Owner of Property (give names and mailing addresses of all owners)

name Mass Transit Administration (MTA)

street & number William Donald Schaeffer Tower, St. Paul Street telephone no.:

city, town Baltimore state and zip code MD

## 5. Location of Legal Description

courthouse, registry of deeds, etc. liber

street & number folio

city, town state

## 6. Representation in Existing Historical Surveys

title Cultural Resources Investigations for Proposed Construction of Double Track, North Half, Central Light Rail, Baltimore & Baltimore Co., MD

date 1999

depository for survey records Maryland Historical Trust  federal  state  county  local

city, town Crownsville state MD

## 7. Description

Survey No. B-1305/BA-2874

### Condition

- excellent  
 good  
 fair

- deteriorated  
 ruins  
 unexposed

### Check one

- unaltered  
 altered

### Check one

- original site  
 moved      date of move

Prepare both a summary paragraph and a general description of the resource and its various elements as it exists today.

### Summary

Between 1854 and 1865, several different types of structures, including box and round arch culverts and one- and two-span bridges, were constructed along the Northern Central Railway alignment. Culvert type appears to be related to the distance spanned; three to four-foot spans were typically made with a simple box culvert consisting of a stone lintel atop several courses of rock-faced ashlar with chiseled margins; five- to approximately twelve-foot spans were made with round arches and barrel vaults. Larger culverts (up to twenty feet) and bridges (over twenty feet) consist of stone abutments and stepped wing walls which would have been spanned originally with timber or iron trusses. In nearly all cases, the original spans have been replaced with standardized reinforced concrete slabs and plate-girders, leaving abutments, wing walls, and piers intact. A unique corbeled culvert located south of the Falls Road Station appears to have been designed and executed to demonstrate the skill of the mason. In most cases, the granite employed by the masons is rock-faced coursed ashlar. At least one earlier retaining wall, dating to the 1830s or 40s, differs in style and construction but remains as one of the earliest surviving engineering structures of the former railroad.

### General Description

The 12.5 mile light rail alignment from North Avenue, Baltimore, to Warren Road, Baltimore County, was surveyed. The following culverts and bridges were located during the course of fieldwork; however, it is likely that additional similar culverts exist but were not found. The amount and extent to which vegetation has overtaken the railroad berm may have obscured structures that are present and intact. Others may be silted in and/or obscured by modern extensions, such as concrete box culverts. The following structures are identified by type, location relative to light rail station number, and geographical location.

#### ***Culverts in Baltimore (City)(B-1305)***

##### ***B-1305-A: Culvert, STA N186, Clipper Road and Union Avenue***

Round arch culvert, 10-12-foot span. Battered/stepped interior walls. Rock-faced rubble and ashlar with a brick arch launched from stone impost on the east side; west side has modern I-beam and concrete slab span atop irregular ashlar walls.

##### ***B-1305-B: Bridge, STA N215, north of Woodberry***

Bridge abutments and pier. Coursed ashlar with modern concrete cap, plate-girder and concrete deck. Eight visible courses. Modern concrete wing walls and rip-rap.

##### ***B-1305-C: Bridge, STA N246, north of Melvale***

Abutments, wingwalls, and pier. Rock-faced granite ashlar; pier of 7-8 visible courses with concrete cap. Stream flows along south side of pier; north side has been silted in and is now a muddy bank. Upstream (west side, south end) has rounded abutment and walls, downstream is evidence of an older stone abutment and wingwall of coursed rubble adjacent to coursed ashlar abutment. The *Baltimore County Union* reported that "The new Iron Bridge over the Jones Falls at Melvale, N.C.R.R. has been completed. It is 64 feet long, 17 feet wide and cost \$1,639.00" (15 September 1888, in the Williams Collection). A modern plate-girder and concrete deck now spans the old abutments and pier.

(see continuation sheet 1)

## 7. Description (continuation sheet 1)

Survey No. B-1305(BA-2874)

*B-1305-D: Culvert, STA N295, south of Northern Parkway*

Round arch culvert. Coursed granite ashlar, slightly battered interior walls. Approximately 8' arch, 26' long. Voussoirs are rock-faced with chiseled margins. This culvert has stepped wingwalls of coursed granite ashlar. The structure has been reinforced and extended with concrete buttresses.

*B-1305-E: Culvert, STA N310, south of Mount Washington*

Box culvert, approximately 3'x4'. Three-and-one-half visible courses of rock-faced granite ashlar with chiseled capstone. Floor of culvert paved in limestone blocks.

*B-1305-F: Bridge, STA N321, south of Mount Washington Station*

Bridge abutments and wingwalls over Western Run. Five visible courses of rock-faced granite ashlar. Stepped wing walls have cement stucco in places. Plate-girder/half-thru girder deck spans mid-nineteenth century abutments.

*B-1305-G: Culvert, STA 330, north of Mount Washington Station*

Box culvert, 3'x4'. Coursed rock-faced granite ashlar. Capstone broached with chiseled margins, beveled top. Openings visible on east and west sides of tracks.

*B-1305-H: Culvert, STA N336, Mt. St. Agnes Path*

Box culvert, may be standard 3'x4'. West side of railroad tracks. Rock-faced granite ashlar with granite lintel. Silted in with evidence of recent excavation of drainage.

*B-1305-I: Culvert, STA N131, South of Mt. Vernon Mill No. 1*

Box culvert, may be standard 3'x4'. East side of railroad tracks. Rock-faced granite ashlar with granite lintel. Modern concrete culvert and wingwalls circumvents historic culvert, but structure remains intact.

*B-1305-J: Retaining Wall, STA N144, North of Mt. Vernon Mills No. 1*

Retaining wall of rough limestone ashlar. This wall retains the railroad bank above the Jones Falls. The wall differs from the type of stone work employed in the 1850s and 1860-era structures, and appears to date to the 1830s or 1840s. This may be an original engineering feature of the Baltimore & Susquehanna Railroad.

*B-1305-K: Pedestrian Tunnel and Culvert., STA N160, Druid Hill Park*

This deep tunnel probably afforded access from Druid Hill Park, under the railroad berm, to the Jones Falls. The tunnel and culvert are arranged in a double-decker relationship, with the tunnel directly above the culvert. The stone work is of granite, with a monolithic rectangular lintel supported on corbeled stone work.

### **Culverts in Baltimore County (BA-2874)**

*BA-2874-A: Culvert, STA N353, south of BGE Mount Washington Substation (triangle)*

Box culvert, approximately 5' to apex. Coursed ashlar triangular corbeled culvert. Possibly local gneiss or granite. Unique culvert is unlike the other NCR culverts, either in dressing of stone or the construction techniques. Corbeled culvert approximately 20' long; East side extended with concrete box culvert. West side buttressed with concrete.

*BA-2874-B: Culvert, STA N359, Falls Road Station*

Culvert visible on south side of tracks southwest of platform. A recent drainage system has been excavated here, and the sides rip-rapped. This culvert may not be part of the original NCR system. It does not appear to have the hallmark granite ashlar, but it was too obscured to investigate more closely. Not contributing to the NCR H.D.

*BA-2874-C: Culvert, STA N364, north of Falls Road Station*

Box culvert, 3'. Visible in the yard of the house at 4 Railroad Avenue, on the north side of tracks, northeast of existing platform. The granite ashlar box culvert has been silted in and the bottom plane of the lintel is only inches from the water's surface. The culvert is similar to the standard box culverts along the NCR alignment.

*BA-2874-D: Bridge, STA N390, Lake Roland (part of BA-1274, Lake Roland Historic District)*

In 1860, the 88' iron truss bridge over the falls was replaced. The bridge was again replaced in 1892 (Robert L. Williams). Stone abutments remain.

(see continuation sheet 2)

## 7. Description (continuation sheet 2)

Survey No. B-1305(BA-2874)

**BA-2874-E: Bridge, STA N453, Ruxton Road viaduct**

Abutments and wingwalls. Two stone abutments and wingwalls at Ruxton are of uncoursed gneiss or granite and limestone ashlar and may date to the late nineteenth century, at which time the Ruxton Station of the NCR was constructed due north of this bridge. The 1916 track guide indicates that an iron truss bridge was installed here in 1887. The look of the stone work and its difference from the typical NCR mid-nineteenth-century work may date this bridge to the 1880s. The abutments have been reinforced with concrete and the deck, described as a half thru girder, is recent. A concrete pier has been added west of the tracks.

**BA-2874-F: Culvert, STA N462, Bellona Avenue near Locust**

Box culvert, approximately 3'6"x4' or 3.5'x4'. Coursed, rock-faced granite ashlar; chiseled margins around culvert opening. Lowest visible course consists of narrow stones topped with 5 courses of large, regular ashlar. Narrow broached and chiseled cap stone. Creek bed inside culvert has been paved in limestone blocks.

**BA-2874-G: Culvert, STA N489, Bellona Avenue south of Joppa Road**

Round arch culvert, 8' span. Coursed, rock-faced granite ashlar; eight visible courses with capstone. Voussoirs with chiseled margins. Drains west).

**BA-2874-H: Culvert, STA N498, north of Joppa Road**

Round arch culvert, 8' span. Coursed, rock-faced granite ashlar; eight visible courses with capstone. Voussoirs with chiseled margins. Drains west. On west side, concrete buttresses on exterior and wooden cascades on interior.

**BA-2874-I: Culvert, STA N515, south of Rider Avenue**

Box culvert, approximately 3'x4'. Coursed, rock-faced granite ashlar; chiseled margins around culvert opening. Pecked and chiseled cap stone. Interior of culvert has been partially silted in. No visible outlet on opposite side.

**BA-2874-J: Bridge, STA N527, south of south of Railroad Avenue, Lutherville**

Abutments and wing walls. Coursed, rock-faced granite ashlar laid in 10 visible courses with slightly battered walls. Angle draft at corners. Wing walls are granite with limestone caps with chiseled margins. Modern concrete poured atop limestone; concrete cap atop abutment.

**BA-2874-K: Bridge, STA N545, south of Railroad Avenue, Lutherville**

Abutments and wing walls. Coursed, rock-faced granite ashlar laid in 5-5.5 visible courses with slightly battered walls. Angle draft at corners. Stepped wing walls (7-8 steps). Modern concrete deck spans abutments.

**BA-2874-L: Culvert, STA N576, south of Lutherville Light Rail Station**

Abutments and wing walls. Coursed, rock-faced granite ashlar laid in 5-5.5 visible courses with slightly battered walls. Angle draft at corners. Stepped wing walls (7-8 steps). Modern concrete deck spans abutments. Below bridge are two rows of what appear to be the remnants of a wood structure or piles.

**BA-2874-M: Culvert, STA N663, Timonium Light Rail Station**

6'x6' culvert. Portions of the abutments of this small bridge remain. The deck is a modern replacement and much of the original stonework has been removed or damaged to accommodate it. Not contributing to the NCR H.D.

**BA-2874-N: Culvert, STA N686, near Padonia Road**

Round arch culvert, 9' span. Coursed, rock-faced granite and limestone ashlar. Voussoirs with chiseled margins on east side and keystone in prominent relief. Pecked finish on lowest plane of voussoirs. West side voussoirs are regular but not chiseled. East side features wing walls; west has stepped retaining walls along creek. Creek channelized with aggregate concrete.

**BA-2874-O: Culvert, STA N760, south of Warren Road**

Round arch culvert and wing walls, 15' span. This culvert just south of Warren Road is the largest round-arch culvert located during this survey. It consists of approximately 20 courses of rock-faced granite and limestone ashlar. The regular voussoirs have chiseled margins and the keystone is slightly larger than the regular voussoirs.

(see continuation sheet 3)

## 7. Description (continuation sheet 3)

Survey No. B-1305 BA-2874

### *BA-2874-P: Culvert, STA N416, Lake Roland*

This culvert is composed of two halves dating to two different periods and built for two purposes. West side is part of Lake Roland, and has the appearance of a dock, with a silted-in culvert opening barely visible below the water line. Chiseled into the rock-faced granite cap stones is "B.M. No. 9", indicating that the feature may have served as a benchmark for the lake level. This face was probably constructed in the 1860s. The east side is a limestone retaining wall (east of Bellona Road), with a small, three-ring brick round arch culvert. The retaining wall and culvert were undoubtedly built for the Powder Mill Rd., now Bellona Avenue, and may date to the first half of the nineteenth century.

### *BA-2874-Q: Culvert, STA N429, south of St. John's Church*

Like its neighbor to the south, this culvert was constructed in two periods for two purposes. On the west it is a four-ring brick round arch culvert set into a granite structure with wingwalls. The 8' span supports the railroad bank. This ca. 1860s structure abuts a much earlier small bridge/culvert built for the Powder Mill Rd., now Bellona Avenue. Near the point at which they abut, a modern concrete sewer pipe has been cut into the older half. The eastern face is coursed limestone and granite ashlar with regular stone voussoirs and a prominent keystone. The abutments are battered and extend into curved wing walls. The impost and a parapet wall are articulated by bands of stone. The culvert may date to the first quarter of the nineteenth century, and is an interesting and well-preserved example of early stone engineering.

### *BA-2874-R: Culvert, STA N467, Bellona Avenue near Maywood*

Small 2'x3' box culvert of coursed, rock-faced granite ashlar with chiseled margins on west side. All that remains of the east face is the capstone, embedded in the shoulder of Bellona Avenue. Eastern side has been replaced by a modern sewer.

### *BA-2874-S: Culvert, STA N478, Bellona Avenue near Maple*

Small 2'x3' box culvert of rock-faced granite ashlar on west side. East side is not original. This culvert does not appear to retain enough integrity to be considered eligible as a contributing resource to the NCR H.D.

### *BA-2874-T: Culvert, STA N602, Business Park Drive*

This low box culvert has been almost entirely replaced. A few courses of stone are partially intact, but a gabion system has replaced the historic stone wing walls. The deck is modern. Pieces of the historic stone are strewn along the stream bed. Not contributing to the NCR H.D.

## 8. Significance

Survey No. B-1305/BA-2874

### Period

- prehistoric
- 1400-1499
- 1500-1599
- 1600-1999
- 1700-1799
- 1800-1899
- 1900-

### Areas of Significance-

- archeology-prehistoric
- archeology-historic
- agriculture
- architecture
- art
- commerce
- communications

### Check and justify below

- community planning
- conservation
- economics
- education
- engineering
- exploration/settlement
- industry
- invention
- landscape architecture
- law
- literature
- military
- music
- philosophy
- politics/government

**Specific dates:** ca. 1854-1865

**Builder/Architect:** Northern Central Railway/Pennsylvania Railroad

- check: Applicable Criteria: A B C D  
and/or  
Applicable Exception: A B C D E F G  
Level of Significance: national state local

Prepare both a summary paragraph of significance and a general statement of history and support.

### Statement of Significance

Between Woodberry, in the city of Baltimore and Warren Road in Baltimore County, at least 31 examples of mid-nineteenth-century railroad engineering structures survive intact, and in some cases service, on the MTA light rail line. Most of the extant culverts and bridges were constructed between 1854 and 1865 by the Northern Central Railway (NCR), an important passenger and freight line that from its inception in 1828 as the Baltimore & Susquehanna Railroad to its reincarnation as the Central Light Rail has been ultimately responsible for the settlement patterns and economic development of Baltimore County. The NCR culverts and bridges reflect standardized types of box and round-arch culverts, and bridge abutments and piers. Modern alterations have been made to the decks of the bridges and some of the culverts have been reinforced or extended with concrete. Overall, the structures retain integrity as a discontinuous district comprised of standardized engineering structures built to serve the NCR in the mid- to late nineteenth century. The district appears to meet the eligibility requirements for listing in the National Register under criterion C.

### History and Context of the Northern Central Railroad

The histories of Baltimore City and County are intertwined. The county, which included present-day Baltimore City until 1850, was established in 1659. At that time, the county encompassed land on either side of the head of the Chesapeake (currently parts of Cecil and Harford counties), and extended west beyond present day Frederick County. After several reductions in area, the county assumed its present form by 1773. Early settlers of the county were concentrated along navigable waterways. David Jones settled on 380 acres on the east side of the eponymous Jones Falls in 1661. In 1729, the Maryland Assembly enacted the establishment of a town named Baltimore near the mouth of the Jones Falls, after which land was purchased and platted on the western bank of the small river. In 1745, the settlement known as Jones Town east of the falls, merged with settlements west of the falls to become Baltimore Town.

Baltimore Town emerged in the eighteenth century as a dominant colonial port, earning the title of the fastest growing city in the nascent United States during the 1790s. An influx of German settlers brought wheat and grain culture to the county that, like so many other Maryland counties, had relied on land-intensive tobacco cultivation. Mills established along the powerful Jones Falls produced flour for the active domestic and export markets. Distilleries processed county rye into whisky.

The Jones Falls was essential as a power source for the mill industry in the valley, though the Falls were only navigable to Lexington Street in the city of Baltimore. The Falls Road Turnpike was chartered in 1805 to enable the efficient shipment of Baltimore County's farm products and industrial goods to the growing port of Baltimore. The first tollgate was located north of North Avenue. The turnpike followed the falls, though the organizers tried to engineer a route beyond the reaches of the regular freshets that plagued the falls. Like many nineteenth-century turnpikes, the Falls Road Pike suffered from poor maintenance, and its primary users were vocal in their complaints about tolls collected for a ruinous road.

(see continuation sheet 4)

## 8. Significance (continuation sheet 5)

Survey No. B-1305(BA-2874)

Between the 1850s and early twentieth century, the construction of regularly spaced stations north of Baltimore fostered the suburban development of Baltimore County. Often, the original simple frame structures would be replaced with more architecturally distinctive stations once the community was established. The years 1853 and 1854 saw the development of Lutherville and Mount Washington, two of the earliest developed Baltimore suburbs. The early stations were replaced in the 1870s, Lutherville with a substantial limestone station (1876), and Mount Washington with a picturesque Gothic Revival-inspired design (1877). Other stations were erected at West Woodberry, Melvale, Riderwood, the Timonium fairgrounds, Padonia, Texas, and Cockeysville, in addition to private stations like Cylburn and Brightside. In keeping with the Pennsylvania Railroad's sophisticated architectural aesthetic, a new Riderwood Station, which stands today north of Joppa Road on the light rail corridor, was designed by Philadelphia architect Frank Furness in 1903 (Gunnarsson 1991:113). The Parkton Station, now demolished, was built from the same plans.

The Pennsylvania Railroad had acquired the NCR in 1861, but continued to operate the line under the NCR name. After 1914, the rail line was operated as the Pennsylvania Railroad, and continued a booming service into the 1920s, when trucking and changes in industry diminished the freight business. Passenger service remained active until eclipsed by the personal automobile (Harwood 1995:19).

The Jones Falls Expressway, funded by the Federal-Aid Highway Act of 1956, was opened to traffic in November 1962. The elevated highway follows the path of the Jones Falls from the center of Baltimore through the county and into Pennsylvania, essentially, the route of the former NCR. As commuters came to prefer personal automobiles to train travel, ridership dwindled. The Pennsylvania Railroad continued to operate suburban service along the former NCR rail line until 1959 (Zembala 1995:108). Many of the old passenger stations were demolished, including the architecturally distinctive stations at Mount Washington and Ruxton (Gunnarsson 1991:161). The Pennsylvania Railroad was absorbed into the Penn Central system, which declared bankruptcy in 1970. Limited freight traffic continued to ply the track until it was severely damaged by hurricane Agnes in 1972. Selective repairs made the track useful for short freight service from the Campbell limestone quarries to Baltimore (Gunnarsson 1991:164-165). The reuse of much of the alignment for light rail was studied in the two decades following the Pennsylvania system bankruptcy. Light rail service began in 1992 (Harwood 1995:13).

### Engineering and Infrastructure

From its inception as the Baltimore & Susquehanna Railroad in 1828, the Northern Central Railroad served Baltimore and Baltimore County industry by providing an efficient means of shipment to the port of Baltimore for the County's industrial goods and products of county mines and quarries. Excursion trains along the railroad enabled city dwellers to day-trip to the county, eventually fueling the development of suburban retreats and settlements like Mount Washington and Lutherville. In 1854, the NCR was formed from the consolidation of four rail lines, including the B&S. The NCR embarked on a campaign of upgrading its infrastructure to deal with increased traffic and heavier loads of modern steam engines and freight. The NCR sponsored the construction of stone structures of the highest quality and craftsmanship to reflect the quality of the NCR's service. During the mid- and late nineteenth century, the construction of passenger stations was treated with the same attention to detail, resulting in the construction of many architecturally distinctive and notable stations, most of which have since been demolished.

The earliest bridges and culverts on the B & S were of timber construction. Timber was the quickest and most affordable material for the construction of the early stream and creek crossings. The hilly terrain along the Jones Falls Valley necessitated the construction of numerous drainage systems and water crossings. The failings of the timber bridge were highlighted when in April 1861, Confederate forces burned several bridges south of Cockeysville. Contemporary accounts of the reconstruction of the line note the speed with which service was restored. "The bridges on this road have all been rebuilt and on Monday last the regular trains commenced running. . . ." (Williams Collection: *Baltimore County Advocate* 18 May 1861). "The Northern Central Railway Company have completed a new bridge over Western Run, near Cockeysville. The bridge over the Beaver Dam branch, near the same place, has not been rebuilt, the stream still being crossed by the old trestle work. These two bridges were destroyed on the memorable 20th of April, 1861. The Iron Railroad Bridge over Jone's [sic] Falls, near Relay House, has again been put up in its original shape. (Williams Collection: *Baltimore County Advocate* 12 October 1861).

(see continuation sheet 6)

## 8. Significance (continuation sheet 4)

Survey No. B-1305(BA-2874)

Though the county enjoyed an extensive system of roads, alternative forms of transportation were sought. Between 1783 and the 1820s, speculative and abortive canal ventures failed to provide a water-borne trade route from the county's interior to port (Scharf 1971:342). Roads, however consistently deteriorated, remained the principal means of shipment. The advent of the railroad in the 1830s became the primary catalyst for growth along Jones Falls Valley and north. The railroad's impact is clearly visible in the pockets of suburban and industrial development which relied equally on the success and expediency of the railroad. Baltimore County history parallels that of the railroad's from the second quarter of the nineteenth century into the mid-twentieth century.

During the summer of 1827, York County, Pennsylvania toll road owners consulted with Baltimore business men about the possibility of creating a railroad link between Baltimore and York Haven, above the falls of the Conowingo River near the projected route of the Pennsylvania Canal (Gunnarsson 1991:12-13). A charter for the Baltimore & Susquehanna Railroad (B&S) was granted by the Maryland legislature February 13, 1828, but persistent trade rivalries between Baltimore and Philadelphia prevented the issuance of a charter in Pennsylvania (Gunnarsson 1991:12-14).

Despite the Pennsylvania legislature's denial of a charter, the cornerstone for the Baltimore & Susquehanna Railroad was laid on August 8, 1829, approximately 60 feet from the North Avenue Bridge in Baltimore (Gunnarsson 1991:14; Scharf 1971: 343). To minimize effort through the hilly terrain north of Baltimore, the Jones Falls Valley was chosen as the route northward. Construction started along the west bank of the Jones Falls. Bridges were to be of wood, with wood ties and stringers supporting a 4'8-½" gauge iron rail (Gunnarsson 1991:15). Predominantly Irish work gangs reached Relay, at present day Lake Roland, in 1831 (Gunnarsson 1991:15; Scharf 1971: 344). At first, horse-drawn carriages plied the track. The first run between Belvedere Station and Relay was made on 4 July 1831, followed in August 1832, by the line's first steam locomotive, the "Herald" (Gunnarsson 1991:15; Scharf 1971: 344).

Still lacking a charter in Pennsylvania, the Green Springs Line, a new but short-lived "Main Line" was engineered westward from Relay through the Green Springs Valley (Gunnarsson 1991:16). In 1831, the governor of Pennsylvania acquiesced, allowing work to resume on the B&S's northward expansion. Due to the expense incurred by construction, work progressed sporadically between 1832-1836. The railroad reached Timonium in October 1832, followed soon after by the quarries at Texas and Cockeysville in 1834 and 1835 (Gunnarsson 1991:19). Work continued on the Pennsylvania segment from the late 1830s to mid-century. Work on the northern extent of the line was not a concern for the mills and quarries benefiting from the open access to the port at Baltimore. The quality of original construction was a concern, however, and as a result the B&S spent the 1850s improving their extant track system (Gunnarsson 1991:29).

In 1854, four railroads consolidated under the Northern Central Railway Line (NCR) creating a continuous line from Baltimore to Sunbury, Pennsylvania, nearly 150 miles north of Baltimore. Official operations under the NCR charter began 1 Jan 1855 (Gunnarsson 1991:38-39; Scharf 1971:344). NCR operations marked an era of increasing traffic and efficiency on the line, but were not a guarantee of financial success (Gunnarsson 1991:42-43). Bridge replacement, infrastructure investments, upgrading, new facilities and equipment exhausted company coffers (Gunnarsson 1991:43). The hilly route along the falls necessitated the construction of a large number of bridges and culverts. Nearly all of the extant stone engineering structures were built between 1854 and 1861 (Gunnarsson 1991: Appendix 3).

The expansive Pennsylvania Railroad acquired the NCR in April 1861 (Gunnarsson 1991:47). Double-tracking the alignment from Baltimore to Harrisburg was a priority to increase efficiency and train frequency. Second tracks were completed to Relay in 1862 followed by Cockeysville in 1862 (Gunnarsson 1991:65). New bridges were constructed and new grading was undertaken where necessary.

At the outbreak of the Civil War, Camp Small was erected in Melvale to protect the NCR tracks from Confederate sabotage. A regiment of Zouaves from York, Pennsylvania was stationed at the encampment (Gunnarsson 1991:57). In spite of the protective presence of the Zouaves, in 1861, the NCR was damaged when Confederate troops were ordered to burn bridges in the vicinity of Cockeysville (Gunnarsson 1991:64-65). Four large wooden trestles and six small bridges south of Cockeysville were burned. Replacement was quickly undertaken so that service was minimally interrupted on the busy railroad.

(see continuation sheet 5)

## 8. Significance (continuation sheet 6)

Survey No. B-1305/BA-2874

Between 1854 and 1865, several different types of structures, including box and round arch culverts and one- and two-span bridges, were constructed along the railroad alignment. Culvert type appears to be related to the distance spanned; three to four-foot spans were typically made with a simple box culvert consisting of a stone lintel atop several courses of rock-faced ashlar with chiseled margins; five- to approximately twelve-foot spans were made with round arches and barrel vaults. Larger culverts (up to twenty feet) and bridges (over twenty feet) consist of stone abutments and stepped wing walls which would have been spanned originally with timber or iron trusses. In nearly all cases, the original spans have been replaced with standardized reinforced concrete slabs and plate-girders, leaving abutments, wing walls, and piers intact. A unique corbeled culvert located south of the Falls Road Station appears to have been designed and executed to demonstrate the skill of the mason. In most cases, the granite employed by the masons is rock-faced coursed ashlar.

### MARYLAND HISTORICAL TRUST REVIEW

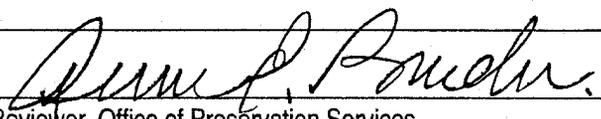
Eligibility recommended

Eligibility not recommended

Criteria:  A  B  C  D

Considerations:  A  B  C  D  E  F  G  None

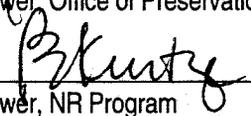
Comments:



Reviewer, Office of Preservation Services

AUG. 5, 2000

Date



Reviewer, NR Program

8/14/00

Date

## 9. Major Bibliographical References (continued)

*Baltimore County Union*. 15 September 1888. Williams Collection.

Williams, Robert L. (Williams Collection). n.d. Personal notes and compiled information on the history of the NCR. Original documents, maps, drawings.

Zembala, Dennis M., editor. 1995. *Baltimore: Industrial Gateway on the Chesapeake*. B. Henry Latrobe Chapter of the Society for Industrial Archaeology and the Baltimore Museum of Industry, Baltimore, MD.

*Bowler*

## 9. Major Bibliographical References

Survey No. B-1305/BA-2874

Gunnarsson, Robert L. 1991. *The Story of the Northern Central Railway*. Greenberg Publishing Company, Sykesville, Maryland.

Harwood, Herbert. 1995. *Baltimore's Light Rail*. Quadrant Press, New York.

Pennsylvania Railroad. 1916. *Present Alignment and General Situation between Melvale and Padonia, Baltimore Division, P.R.R.* Office of the Assistant Engineer, Engineering Department, P.R.R., Baltimore, MD. In the Williams Collection.

Scharf, J. Thomas. 1881. *History of Baltimore City and County*. [1971 reprint] With new introduction and rearranged index by Edward G. Howard. Regional Publishing Company, Baltimore, MD.

(see continuation sheet 5)

## 10. Geographical Data

Acresage of nominated property:

Quadrangle name Baltimore West 7.5' and Cockeysville 7.5'

Quadrangle scale 1:24,000

UTM Reference do NOT complete UTM references

zone	easting	northing
------	---------	----------

Verbal boundary description and justification

Discontiguous district comprised of individual structures.

List all states and counties for properties overlapping state or county boundaries

state	code	county	code
Maryland		Baltimore City	

Maryland		Baltimore County	
----------	--	------------------	--

## 11. Form Prepared By

name/title Kerri Culhane/Project Architectural Historian

organization John Milner Associates, Inc.

date 10/1999

street & number 5250 Cherokee Avenue, Suite 410

telephone 703/354-9737

city or town Alexandria

state Virginia

The Maryland Historic Sites Inventory was officially created by an Act of the Maryland Legislature to be found in the Annotated Code of Maryland, Article 41, Section 181 KA, 1974 supplement.

The survey and inventory are being prepared for information and record purposes only and do not constitute any infringement of individual property rights.

return to: Maryland Historical Trust  
DHCP/DHCD  
100 Community Place  
Crownsville, MD 21032

**PRESERVATION VISION 2000; THE MARYLAND PLAN  
STATEWIDE HISTORIC CONTEXTS**

**I. Geographic Region:**

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

**II. Chronological/Developmental Periods:**

- Rural Agrarian Intensification A.D. 1680-1815  
 Agricultural-Industrial Transition A.D. 1815-1870  
 Industrial/Urban Dominance A.D. 1870-1930  
 Modern Period A.D. 1930-Present  
 Unknown Period ( prehistoric; historic)

**III. Historic Period Themes:**

- Agriculture  
 Architecture, Landscape Architecture, and Community Planning  
 Economic (Commercial and Industrial)  
 Government/Law  
 Military  
 Religion  
 Social/Educational/Cultural  
 Transportation

**IV. Resource Type:**Category: DistrictHistoric Environment: Rural/Village/UrbanHistoric Function(s) and Use(s): TRANSPORTATION: rail-related; railroad culverts, bridges, retaining wallsKnown Design Source: Northern Central Railroad and unknown

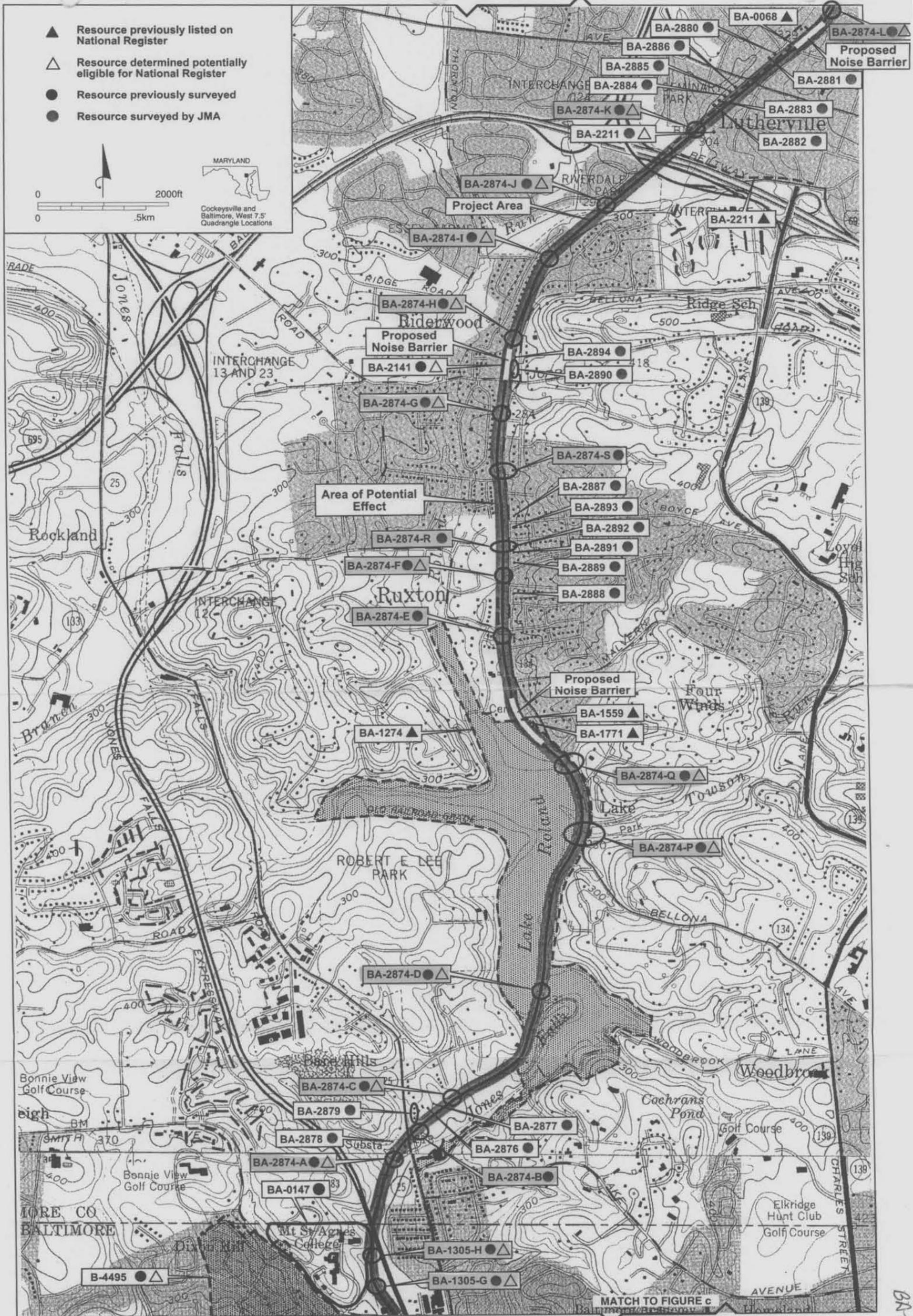


Figure b. Northern Central Railway Engineering Structures Historic District (B-1305/BA-2874).

BA-2874





E-1305-I

Culvert near Mt Vernon Mill no. 1

Northern Central Railway Historic District

(E-1305/BA-2874)

Baltimore, MD.

K. Culhane

2/2000

MDSHPD

PROJEC2000< 2021  
221 02\*\*N N N N 24 2(0400)

Box culvert view to west



B-1305-I

culvert near Mt. Vernon Mill no. 1

Northern Central Railway Historic District

(B-1305 / SP-2874)

Baltimore, MD

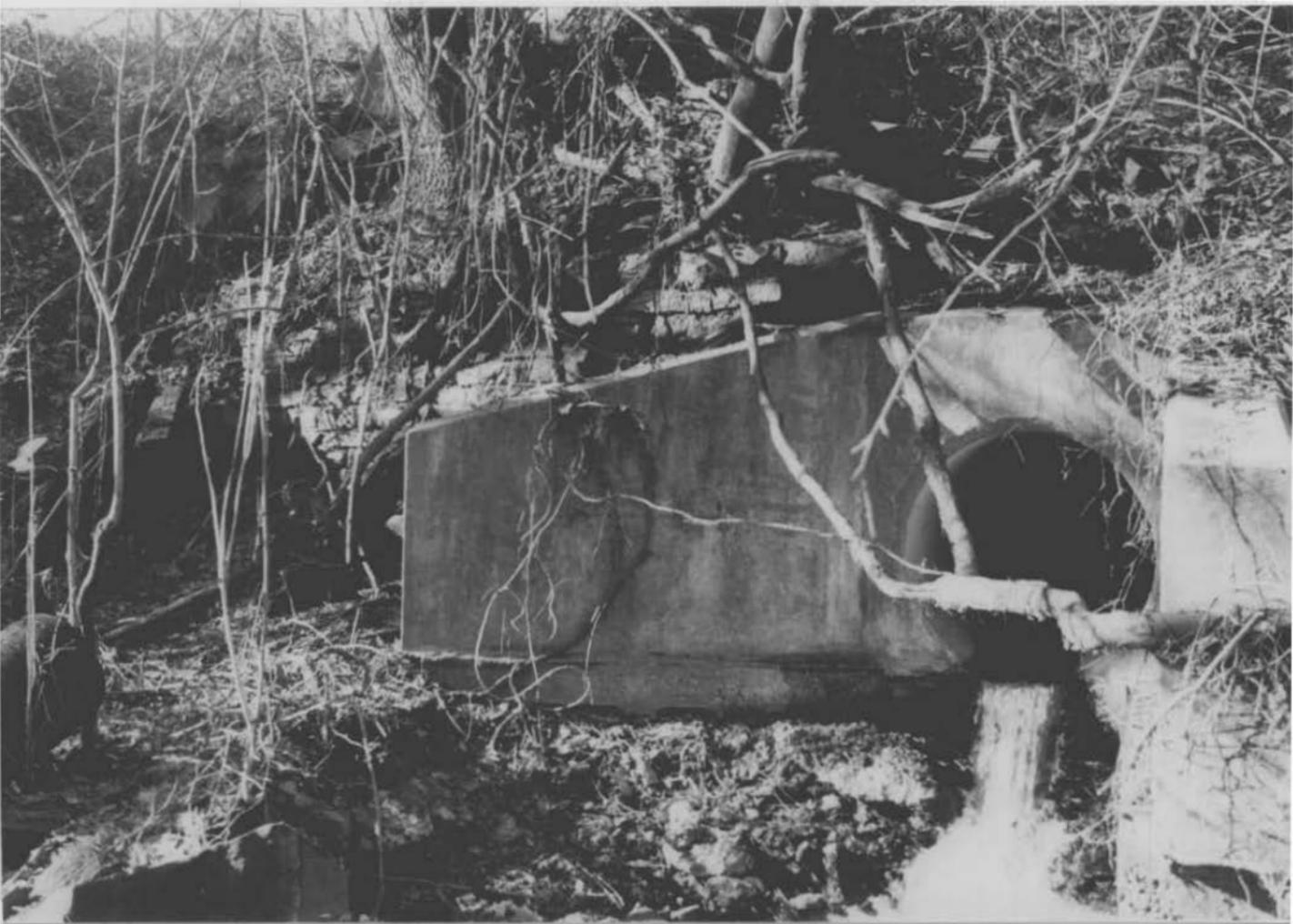
K. Culvert

2/2000

NO S&PO

PROJEC2000 < 2022  
221 02\*\* N N N N 13 2 (040)

historic stone box culvert bypassed by  
modern concrete culvert. view to west/northwest



B-1305 - I

Culvert near Mt. Vernon Mill no. 1

Northern Central Railway Historic District

(B-1305 / BA-2874)

Baltimore, Md.

Kerr Culhane

2/2000

MD SHPO

PROJEC2000 < 020  
221 07\*\* N N N 22 2 (040)

historic stone box culvert bypassed by  
modern concrete culvert. view to west



B. 1305-J

Retaining Wall north of Mt. Vernon Mill rd. 1  
Northern Central Railway R.O. (B.1305/BA-2874)

BALTIMORE, MD

K. Culhane

2/2000

NO SITE

PROTEC2000< >013  
221 07\*\*NNNN 14 2<040>

Rubblestone portion of wall (south end of  
wall). View to west.



B=1205-J - RETAINING WALL

NORTH-WEST CENTRAL RAILWAY DISCONTIGUOUS #10

EMULSION, AND

KERRI CULTURE

2/2000

11/25/00

RETAINING WALL: STATION 144, CENTRAL LIGHT RAIL

PROTEC2000< >014 VERT TO NORTH-WEST  
221 07\*\* N N N N 10 2(040)



B-1305-K

Pedestrian Tunnel and culvert across (west)  
of Clipper Mill.

Northern Central Railway H.O. (B-1305/SP-2874)  
Baltimore, MD.

K. Culhane

PROTEC2000< >812  
221 07\*\* N N N 1.07 2(040)

2/2000

M. D. STP

Oblique view of eastern wall and opening  
of tunnel view to north.



B-1305-K

Pedestrian Tunnel and Culvert

Northern Central Railway H.O. (B-1305/34.2874)

Baltimore, MD

Kerri Culhane

2/2000

PROTEC2000< >010  
221 07\*\* N N N 2 04 2 (040)

MDSTEP

tunnel opening. Detail of checked margins.  
view to west.



B-1305-K

Pedestrian Tunnel and Culvert

Northern Central Railway R.R. (B-1305/BA-2874)

Baltimore, MD

Kerri Culhane

2/2000

MDSHP

PROTEC2000< >011  
221 07\*\* N N N 3-11 2(040)

Tunnel. view to west.



B-1305.K

Pedestrian Tunnel and Culvert west of  
Cipper Mill

Northern Central Railway H.P. (B-1305/BA-287)

Baltimore, Md

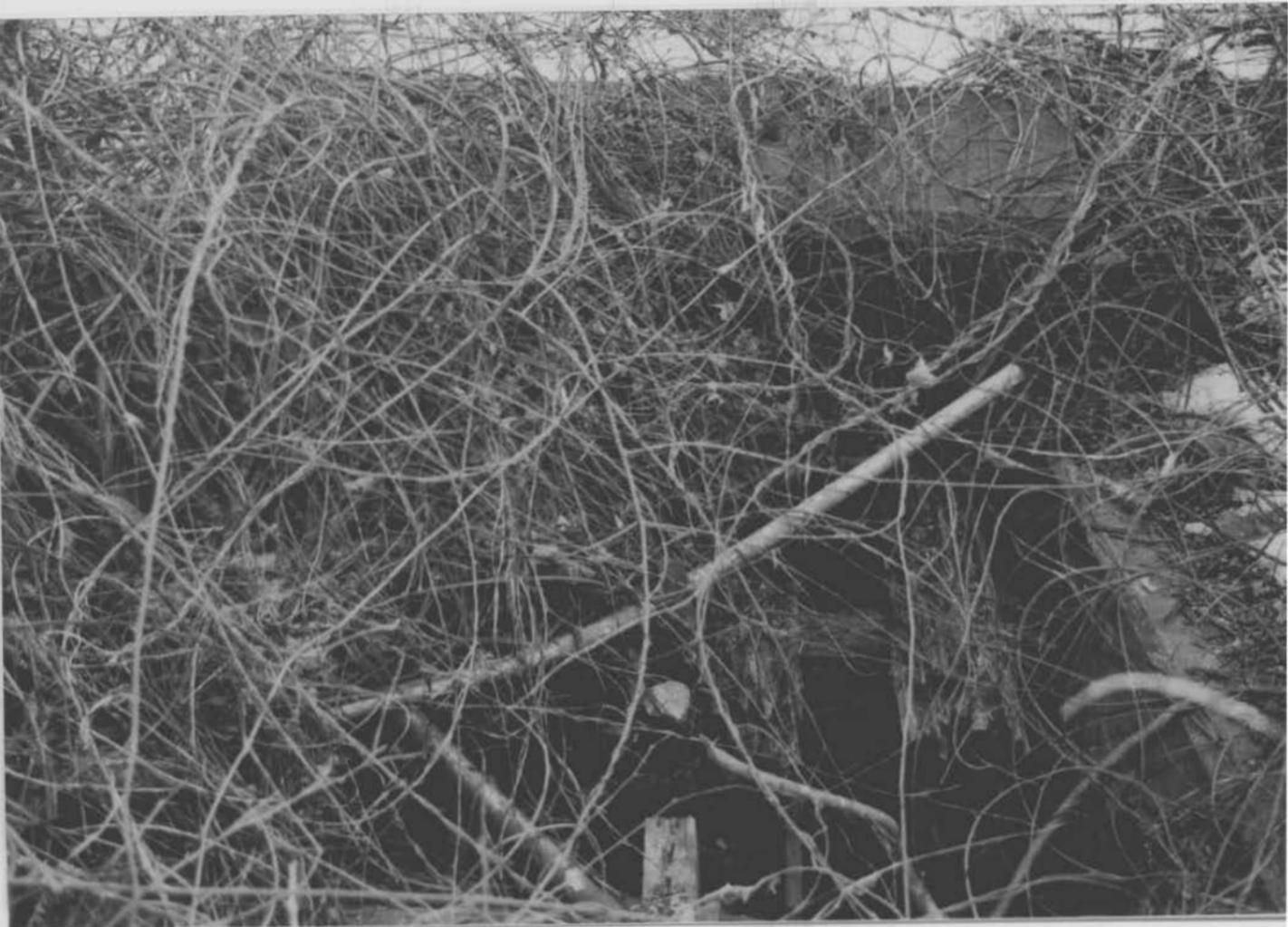
K. Culhane

2/2000

MDSHAPO

PROTEC2000< >009  
221 07\*\*N N N 2 07 2(040)

Tunnel opening view to west/southwest



B-1305-K

Pedestrian Tunnel and Culvert west  
of Clipper Mill

Northern Central Railway H.N. (B-1305/BA-2874)

Baltimore, MD

K. Culhane

2/2000

MDSHPD

Overgrown western entrance to tunnel  
view to east.

PROTEC2000 < 2003  
221 02\*\* N N N 2 05 2(040)



BA-2874-A

CORBELED CULVERT, WEST OF FALLS ROAD

NCR ENGINEERING STRUCTURES A-D (B-1305/BA-2874)

BALTIMORE CO., MD

K. CULINE

8/1999

MD SHPO

OPENING, W SIDE RR TRACKS. VIEW TO E/SE



BA-2874A

CORBELLED CULVERT WEST OF FALLS ROAD  
NORTHERN CENTRAL RAILWAY ENGINEERING STRUCTURES, H.D. (B-1305  
BALTIMORE COUNTY, MD BA-2874)

K. CULLHANE

8/1999

MD SHPO

OPENING ON W. SIDE OF RR BERM. VIEW TO EAST.

23/54



BA-2874-A

CORBELED CULVERT, WEST OF FALLS ROAD

NCR ENGINEERING STRUCTURES A-D. (B-BOX/BA-2874)

BALTIMORE CO., MD

K-CULLANE

8/1999

MD SHPO

OPENING / VIEW THROUGH CULVERT. LOOKING E/SE. EXTENDED  
WITH CONCRETE BOX CULVERT ON EAST SIDE.

25/54



BA-2874-B

CULVERT, FALLS ROAD STATION (BARE HILLS)

NCR ENGINEERING STRUCTURES H.B. (B-1305/BA-2874)

BALTIMORE CO., MD

K. CULHANE

8/1999

MOSHPO

CULVERT AT BOTTOM OF MODERN, RIP-RAPPED DRAWAGE  
VIEW TO NORTH.



BA-2874-C

BOX CULVERT, N. OF FALLS ROAD STATION

NCR ENGINEERING STRUCTURE I-I-D. (B-1305/BA-2874)

BALTIMORE CO., MD

K. CULWANE

8/1999

MDSHPO

CULVERT ON N-SIDE RR TRACKS, VIEW TO S/SE.

SILTED IN, PARTIALLY VISIBLE



BA-2874-E

RUXTON BRIDGE ABUTMENTS

NCR ENGINEERING STRUCTURES A.O. (B-1305/BA-2874)

BALTIMORE CO., MD

K. CULHANE

6/1999

MDSAPO

Ruxton Road over NCR Trucker. view to west.



BA-2874-E

RUXTON BRIDGE ABUTMENTS

NCR ENGINEERING STRUCTURES A.D. (B-1305/BA-2874)

BALTIMORE CO., M.D.

K. CULLANE

8/1999

MD SHPO

Uncoursed ashlar abutment, east side RR tracks.  
View to N/NE. NOTE MODERN CONCRETE WORK AT  
CORNERS

29/54



BA-2874-E

Ruxton bridge abutments

NCR ENGINEERING STRUCTURES A-D (B-1305/BA-2874)

BALTIMORE CO., MD

K. CULLANE

8/1999

MD STPO

Uncoursed ashlar abutment, west side, RR tracks.  
Modern concrete piers and buttressing view to W/NW



BA-2874F

BOX CULVERT, BELLONA AVE NEAR LOCUST.  
NORTHERN CENTRAL RAILWAY ENGINEERING STRUCTURES H.O (CB-1305/BA-2874)  
BALTIMORE COUNTY, MD

K. CULLANE

8/1999

MD SHPO

OPENING, EAST SIDE OF LIGHT RAIL/NCR BERM, VIEW TO SW.

31/54



BA-2874-F

BOX CULVERT, BELONA AVE. NR. LOCUST  
NORTHERN CENTRAL RAILWAY ENGINEERING STRUCTURES H. D. (8-1305/BA-2874)

BALTIMORE CO, MD

K. CULIVANE

8/1999

MD SHPO

interior of culvert looking west to western opening  
note chiseled margins of rock-faced stone / ashlar  
east side opening / view to west



BA - 2874 - F

BOX CULVERT, BELLEWA AVE NR. LOCUST  
NORTHERN CENTRAL Rwy ENGINEERING STRUCTURES H.D. (B-1305/BA2874)  
BALTIMORE CO., MD

KERRI CULLANE

8/1979

MOSHPD

VIEW OF LIMESTONE PAVING IN CULVERT FLOOR / CREEK BED  
EAST SIDE OPENING (VIEW TO W)

33/54



BA-2874-G

ROUND ARCH CULVERT, SOUTH OF JOPPA RD

NCR ENGINEERING STRUCTURES I.D. (B-1305/BA-2874)

BALTIMORE CO., MD

K. CULWANE

8/1999

MD SHPO

CULVERT <sup>OPENING</sup> ON E. SIDE OF RR TRACKS. VIEW TO W/SW.

34/54



BA-2874-G

ROUND ARCH CURVE, S. OF JOPPA RD.

NCR ENGINEERING STRUCTURES H.D. (B-1305/DA-2874)

BALTIMORE CO., MD.

K. CULHANE

8/1999

MD SHPO

OPENING, E SIDE OF RR TRACKS. VIEW TO WEST.

NOTE CHISELED MARGINS OF VOUSSOIRS, DRILL MARKS ON

ASHLAR



BA-2874-H

Round arch culvert, n. of Joppa Road.

NCR Engineering Structures N.D. CB-1305/BA-2874)

Baltimore Co., MD.

K. OWANE

8/1999

MD SHPO

OPENING, WEST SIDE RR TRACKS. VIEW TO EAST.

MODERN CONCRETE BUTTRESSING.



BA-2874-A

Round arch culvert, n. of Joppa Road

NCR Engineering Structures H-D (B-1305/BA-2874)

Baltimore Co., MD

K. CULLANE

8/1999

MD SHPO

VIEW TO EAST.



BA-2874I

BOX CULVERT, S. OF RIDER AVE.

NCR ENGINEERING STRUCTURES I.A.D. (B-1305/BA-2874)

BALTIMORE CO, MD

K. CULLANE

8/1999

MD SHPO

OPENING, E SIDE RR TRACKS: NEW TO W.



BA-2874-I

BOX CULVERT, S. OF RIDER AVE.

NCR ENGINEERING STRUCTURES HD. (B-1305/BA-2874)

BALTIMORE CO, MD

K. CULHANE

8/1999

MDSHPD

OPENING, E SIDE RR TRACKS. VIEW TO WEST



BA-2874 -1

BRIDGE, SOUTH OF SOUTH OF CREIGHTON  
NCR ENGINEERING STRUCTURES H.O. (B-1305/BA-2874)  
BALTIMORE CO., MD

K. O'HANE

8/1999

MD SAPO

view to east.



BA-2874-J

Bridge, South of South of Creighton

NCR Engineering Structures A.D. (B-1305/BA-2874)

BALTIMORE CO, MD.

K. CURRANT

8/1999

MD SHPO

VIEW TO NW.



BA-2874-J

BRIDGE, SOUTH OF SOUTH OF CREIGHTON  
NCR ENGINEERING STRUCTURES H.D. (0-1205/BA-2874)  
BALTIMORE CO., MD

K. CUMMINS

8/1999

MD SHP

ABUTMENT and Wingwall, SOUTH WEST CORNER OF  
BRIDGE. VIEW TO EAST



BA-2874-J

BRIDGE, SOUTH OF SOUTH OF CREIGHTON  
NCR ENGINEERING STRUCTURES AND (B-1305/BA-2874)  
BALTIMORE CO., MD

K. COLLINS

8/1999

MD SHPO

VIEW TO E/NE. NORTH ABUTMENT/W-WING WALL.



BA-2874-K

Bridge, South of Creighton  
NCR ENGINEERING STRUCTURES I.A.D. (B-1305/BA-2874)

BALTIMORE CO, MD

K. CULLANE

8/1999

MDSHPD

VIEW TO SW.



BA-2874-K

Bridge, South of Creighton  
NCR Engineering Structures H.O. (B-1305/BA-2874)  
Baltimore Co., MD

K. CULHANE

8/1999

MD SHPD

VIEW TO NE



BA-2874-L

BRIDGE, S. OF LUTHERVILLE LIGHTRAIL STATION  
NCR ENGINEERING STRUCTURES H.O. (B-1305/BA-2875)  
BALTIMORE CO., MD

K. CULHANE

8/1999

MSHP

view to south west Note slightly battered abutment.

46/54



BA-2874-L

BRIDGE, S. OF LUTHERVILLE LIGHTRAIL STATION  
NCR ENGINEERING STRUCTURES A.D. (B-1305/DA2875)  
BALTIMORE CO., MD

KCULLANE

8/1999

MD SHPO

wooden feature below deck of bridge. view to east.



BA-2874-L

Bridge, S. of Lutherville Light Rail Station

NCR Engineering Structures H-D (B-1305/BA-2875)

BALTIMORE CO., MD

K. CULLANE

8/1999

MDSAPD

wingwall and modern concrete slab deck,  
view to east

48/54



BA-2874-N

ROUND ARCH CULVERT, NORTH OF PADONIA ROAD

NORTHERN CENTRAL RAILROAD ENGINEERING STRUCTURES H.D. (B-1305/80-2874)

BALTIMORE COUNTY, MD

K. CULLANE

8/1999

MDOT

OPENING, WEST SIDE RR ALIGNMENT. VIEW TO EAST

49/54



BA-2874-N

ROUND ARCH CULVERT, NORTH OF PADONIA ROAD

NORTHERN CENTRAL RAILROAD ENGINEERING STRUCTURES H.D. (B-1305/BA-2874)

BALTIMORE CO., MD

K. CULHANE

8/1999

MDSHPD

VIEW TO WEST OF CULVERT AND WING WALLS.

90/54



BA-2874-0

CULVERT S. OF WARREN ROAD

NORTHERN CENTRAL RAILWAY ENGINEERING STRUCTURES H.O. (B-1305/  
BA-2874)

BALTIMORE CO, MD

K. CULHANE

8/1999

MDSHPO

CULVERT OPENING AND SOUTH WING WALL VIEW TO W/SW.

51/54



BA-2874-0

CULVERT S. OF WARREN ROAD

NORTHERN CENTRAL RAILWAY ENGINEERING STRUCTURES I+D. (B-1305/BA-2874)

BALTIMORE CO, MD

K. CULHANE

8/1949

MD SHPO

EAST SIDE, RR ALIGNMENT. VIEW TO WEST

52/54



BA -2874-0

CULVERT S OF WARREN ROAD

NORTHERN CENTRAL RAILWAY ENGINEERING STRUCTURES P.D. (B-1305/BA-2874)

BALTIMORE CO., MD

K. CULHANE

8/1999

MDSHPD

CULVERT OPENING AND SOUTH WING WALL. VIEW TO W/SW

53/54



BA-2874 - 0

CULVERT SO. OF WARREN ROAD

NORTHERN CENTRAL RAILWAY ENGINEERING STRUCTURES H-D (B-1305/  
BA-2874)

BALTIMORE CO., MD

KERRI CULHANE

8/1999

MDSHPD

Tracks over culvert at Warren Road. View to SE

54/54



BA-2874-P / BA-1274

Retaining wall / culvert, Lake Roland

NCR Engineering Structures HD (B-1305 / BA-2874)

and Lake Roland H.O. (BA-1274).

Baltimore County, MD

K. Culhane

2/2000

MDSTPD

PROTEC2000 >022  
220 07\*\* N H N 2 09 2(B40)

Retaining wall (limestone) and bridge arch  
culvert under Bellona Ave (predating NCR)  
incorporated into NCR / Lake Roland culvert,  
new to Northwest.



BA-2874-P / BA-1274

culvert / benchmark, Lake Roland

NCR Engineering Structures H.O. / Lake Roland H.O.,  
Baltimore County, MD

K. Culhane

2/2000

MDSMPO

PROTEC2000 <002  
221 07\*\*N N N 12 2(040)

view to southwest. Dock-like culvert is  
mostly silted in.



BA-2874-Q

Culvert, South of St. Johns Church

NCR Engineering Structures H.O. (B-1305/BA-2874)

Baltimore Co, MD

K. Culhane

4/2000

MD SHPO

NCR Culvert. View to east.

PROTEC2000 < 2023  
220 02\*\* N N 2 14 2 (040)



BA-2874-Q

Culvert, south of St. John's Church  
NCR Engineering Structures H.O. (B-1305/BA-2874)  
Baltimore Co, MD

K. Culhane

2/2000

MDSTPO

ca. 1820-1840 road culvert (Ponder Mill Rd/Bellona Avenue) incorporated into NCR culvert. View to North west.

PROTECTED  
228 8744 N N 1 01 2 (040)  
2017



BA-2874-Q

Culvert, South of St. John's Church

NCR Engineering Structures Inc (B-1305/BA-2874)

Baltimore Co., MD

← Culvert

2/2000

WDSHP

Detail, battered wing wall, view to South.

PROTEC2000 < 228 02\*\*NNN2150840



BA-2874-Q

Culvert, south of  
NCR Engineering  
Baltimore Co., MD

K. Culivane

2/2000

MD SHPD

St. John's Church  
Structure H.D.

PROTEC2000 <021  
228 07\*\*NNN 2 13 2(040)

Detail, interior of culvert where historic (ca. 1870-40)  
road culvert abuts ca. 1850-60s RR culvert.  
Modern sewer has been cut into earlier culvert.



BA-2874-Q

Culvert, South of St. John's Church

NCR Engineering Structures H.D. (BA-2874/B-1305)

Baltimore County, MD

K. Culhane

2/2000

MD SHPO

Ca. 1820-1840 road culvert (Powder Mill/Bellona Ave),  
incorporated into NCR culvert. View to South/Southwest

220 02\*\* N N N \*\*20 022  
PROJEC2000



BA-2874-R

Culvert, Bellona Ave. and Maywood  
NCR Engineering Structures A.D.

B-1305 / BA-2874

Baltimore County, MD

R. Cuthane

2/2000

MDSHPD

view to east.

PROTEC2000 >005  
220 02\*\* N H N 2 15 2(040)



BA-2874-R

culvert, Bellona Ave + Maywood

NCR ~~Engineering~~ Structures A.D.

B-1305 / BA-2874

Baltimore County, MD

K. Cuthane

2/2000

MD Shps

cap stone of culvert, circumvented / replaced  
by sewer. View to north.

PROTEC2000 < 2007  
228 874\*\* N N N 1 14 2 (040)



BA-2874-S

Culvert, Bellona Ave and Maple Crot (contributing)  
Northern Central Railway Engineering Structures A10

B-1305/BA-2874

Baltimore County, MD

K. Culhane

2/2000

MD SHPO

View to east

PROJEC2000 < 2009  
220 02\*\* H N N 2 07 2(040)



BA 2874-S

Culvert, Bellona - Maple (not contributing)  
Northern Central Railway Engineering Structures H.O.

B-205/BA-2874

Baltimore County, MD

Kerri Culhane

2/2000

MD SHPO

view to west

PROTEC2000 >008  
220 07\*\* N N N 2 09 2 (040)



BA-2874-T

culvert, Business park Drive (not contributing)  
Northern Central Railway Engineering Structures F.D.

B-1305/BA-2874

Baltimore County, MD

K. Culhane

2/2000

MD SHPO

view to east.

PROJEC2000 < 2003  
220 02\*\* N N N 1 05 2(040)



BA - 2874 - M

Culvert, Timonium Fairgrounds Station (not contributing)  
Northern Central Railway Engineering Structure, MD  
(8-1305 / 28-22-12)

Baltimore County, MD

K. Culhane

2/2000

MDSHPB.

View to east.

PROJEC2000 >004  
220 07\*\* N N N 2 28 2(040)