| | | | | | B-26A | | | | |
|---|---|--|-------------------------------|---------------------|-----------|-------------------|-----------------|------------|------|
| | Form 10-30 (July 1969 | orm 10-300 UNITED STATES DEPARTMENT OF THE INTERIOR uly 1969) NATIONAL PARK SERVICE | | | | Maryland | | | |
| | - | | | COUNTY: | | | | | |
| | NATIONAL REGISTER OF HISTORIC PLAC | | | | S | Baltimore City | | | |
| | INVENTORY - NOMINATION FORM | | | | | FOR NPS US | EONLY | | |
| | | (Type all entries | s – complete an | plicable sections) | | ENTRY NUMBER | DATE | | |
| | I. NAME | | | | ECEIVED | | 1973 | | |
| | Сом | | | | c 26 197 | 2 [29] | | | |
| | Hc | ward Street T | unnel | H UEI | | | | 1 | |
| | AN D/ | OR HISTORIC: | | | ATIONAL | | | | |
| | | | | R | EGISTER | <u> </u> | | | |
| | 2. LOCA | TION | | - | ATTGA | <u>yy</u> | | | |
| | | neath Howard | Street from | m Mt. Roval | Stati | r on to Camde | n Statio | n | |
| | | OR TOWN: | | | | | <u>n bcucio</u> | | |
| | | ltimore | | | | | | | |
| | STA | | | CODE CO | UNTY: | | co | DE | |
| | | ryland | | 24 | Bal | timore City | <u> </u> | 0 | |
| | 3. CLAS | SIFICATION | 1 | | | 1 | 1 | | |
| S | | CATEGORY (Check One) | | OWNERSHIP | | STATUS | ACCESSIBLI | 1 | |
| Z | | istrict 🗍 Building | Public | Public Acquisition: | | X Occupied | Yes: | | |
| 0 | | g | 🔀 Private | In Process | 5 | Unoccupied | Restricted | | |
| | | Object | 🔲 Both | 📋 Being Con | sidered | Preservation work | Unrestricte | b | |
| | | | | | | ín progress | X N∘ | 1 | |
| U | PRES | ENT USE (Check One or M | lore as Ap propriate) | | | | | | |
| Э | | Agricultural 🗌 G | overnment [|] Park | X | Transportation | Comments | | |
| 2 | | □ Commercial □ Industrial □ Private Residence ☑ Other (Specify) | | | | | | | |
| | | | | Religious | <u>cu</u> | nnel | | | |
| S | 1 | OWNER OF PROPERTY | | | | | | | |
| Z | | ER'S NAME: | | | | | | | s |
| | | Baltimore & Ohio and Chesapeake & Ohio Railroad Companies | | | | | | TATE: | |
| ш | | ET AND NUMBER: | 1 | | | | | Mary | Ü |
| ш | | | | | | | | | |
| S | | Baltimore | | | | Maruland | 24 | and | |
| | Baltimore Maryland 5. LOCATION OF LEGAL DESCRIPTION | | | | | 24 | | | |
| | COURTHOUSE, REGISTRY OF DEEDS. ETC: | | | | | | | ОШ | 0 |
| | | Baltimore City Courthouse | | | | | | Bal Cit | č |
| | STREET AND NUMBER: | | | | | | | K H | Ţ |
| | St. Paul and Fayette Streets | | | | | | CODE | timore | |
| | Ba | ltimore | | | | Maryland | 24 | Dre | |
| | | | | | 1. | laryrana | 24 | H | + |
| | 6. REPR | ESENTATION IN EXIST | ING SURVEYS | | • | | k | | |
| 1.2 | | Maryland Register of Historic Sites and Landmarks | | | | | | | |
| Ricord. | DATE | OF SURVEY: | | | | 20 | | | |
| DEPOSITORY FOR SURVEY RECORDS: Maryland Historical Trust STREET AND NUMBER: 2525 Riva Road | | | | | | | | | |
| | | | | | | | NOW BELL | | |
| | | | | | | | | ' | |
| | | | | | | | | | |
| | | | | | STATE: | [| CODE | ├ <u></u> | - [|
| | AIII | napolis | | | 1f | Maryland | 24 | | |
| | | | | | | | | | |

| 7. | DESCRIPTION | | | | | | | | |
|----|-------------|-------------|--------|-------------|-------------|----------|---------|-----------------|--|
| | | (Check One) | | | | | | | |
| | CONDITION | 📋 Excellent | 🕱 Good | 📋 Fair | Dete | riorated | 🗌 Ruins | Unexposed | |
| | CONDITION | (Check One) | | | (Check One) | | | | |
| | | 🗌 Alter | ed | X Unaltered | | | Moved | 🕱 Original Site | |

DESCRIBE THE PRESENT AND ORIGINAL (if known) PHYSICAL APPEARANCE

The Howard Street Tunnel provides cover for an underground rail connection beneath Howard Street in downtown Baltimore between the Mount Royal and Camden Stations of the Baltimore and Ohio Railroad. The tunnel is 7,341 feet long, 21 feet 3 inches at extreme height, 27 feet wide, and averages between 50 and 65 feet below the pavement. It is built of brick with iron-ring centerings shaped in an arch. The flooring is a flat reverse arch which provides additional strength to the walls. The tunnel has a grade of 0.8 degrees which allows the southbound trains to coast from Mount Royal Station to Camden Station.

The tunnel was constructed beneath one of Baltimore's busiest streets; through relatively soft gravel with the everpresent threat of water seepage, hidden underground streams and patches of quicksand. The City of Baltimore placed restrictions on the construction which limited the length of uncompleted tunnel sections and insisted th t no uncompleted sections be contiguous. The City's fears proved groundless, for no buildings were injured by the tunnel construction. Even the street car line remained undisturbed.

The tunnel is still in use.



EE INSTRUCTION

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| PERIOD (Check One or More as | Appropriate) | | | |
|-------------------------------|-----------------------------|-------------------------|-----------------|--|
| Pre-Columbian | 16th Century | 18th Century | 20th Century | |
| 15th Century | 17th Century | 🔀 19th Century | | |
| SPECIFIC DATE(S) (If Applicat | le and Known) 1890- | 1895 | | |
| AREAS OF SIGNIFICANCE (Ch | eck One or More as Appropri | ate) | TIEL | |
| Abor iginal | Education | Political | Un on Plading 6 | |
| Prehistoric | 🔀 Engineering | Religion/Phi- | Ther (Spect) | |
| Historic | 🔲 Industry | losophy | (m) MECFIVEN | |
| Agriculture | Invention | Science | DEC 20 | |
| Architecture | Landscape | Sculpture | N 1972 | |
| Art | Architecture | Social/Human- | 17 NATION | |
| Commerce | Literature | itarian | NEGISTAL | |
| Communications | Military | Theater | | |
| Conservation | Music | X Transportation | (Internet) | |

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The Howard Street Tunnel is a monument in the history of American engineering. The construction of a 7,341-foot tunnel through soft ground under a busy street, and the innovational use of electricity for illumination and for powering the tunnel locomotives, represent an outstanding accomplishment for its time.

The Baltimore Belt Railroad, chartered in 1888, built the Howard Street Tunnel. The seven-mile-long railroad connected the main branch of the Baltimore and Ohio Railroad that extends westward with its Philadelphia branch. Previously, trains had taken a circuitous route around Baltimore, which included ferrying all trains across the Patapsco River. Two decades earlier, the Pennsylvania Railroad had constructed tracks directly through Baltimore. In order for the B & O to remain competitive with the Pennsylvnnia company, the Baltimore Belt Railroad was built. The growth of the city eliminated the possiblity of an above-ground track, necessitating the construction of a tunnel.

Samuel Raw was the Chief Engineer of the tunnel. A native of Pennsylvania, he previously had worked on the New York tunnel extension of the Pennsylvanaa Railroad and on the Hell Gate Bridge of the New York Connecting Railroad.

Construction of the tunnel began in 1890. On May 1, 1895, the first passenger train passed through it.

The power for the locomotives moving the trains through the tunnel was provided by electricity--a novel idea in the 1890's as electricity was then only beginning to be used by railroads. The General Electric Company designed electric locomotives especially for the Howard Street Tunnel, and an electric power station was built on the Camden Station yard to power them. The electricity that provided the illumination for the tunnel was another innovative achievement.

SEE INSTRUCTIONS

STATEMENT OF SIGNIFICANCE

| | B-26A | | | | | |
|---|--|--|--|--|--|--|
| 9. MAJOR BIBLIOGRAPHICAL REFERENCES | | | | | | |
| "The Baltimore Belt Railroad." ber 12, 1891), 557-559; | Engineering News. XXVI (Decem- (December 19, 1891), 585-587. | | | | | |
| "The Baltimore and Ohio Railroad tific American Supplement 16346-16348. | nt. Vol. XL (August 10, 1895), | | | | | |
| Hungerford, Edward. The Story of road. 2 vols. New York | of the Baltimore and Ohio Rail- k: G. Putnam's Sons, 1928. | | | | | |
| 10. GEOGRAPHICAL DATA | · · · · | | | | | |
| LATITUDE AND LONGITUDE COORDINATES DEFINING A RECTANGLE LOCATING THE PROPERTY | DEFINING THE CENTER POINT OF A PROPERTY OF LESS THAN TEN ACRES | | | | | |
| CORNER LATITUDE LONGITUDE | LATITUDE LONGITUDE | | | | | |
| Degrees Minutes Seconds Degrees Minutes Seconds NW 39 ° 18 , 17 " 76° 37, 15 " NE 39 ° 18 , 17 " 76° 37, 13.5" SE 39 ° 17 , 07 " 76° 37, 9.5" SW 39 ° 17 , 07 " 76° 37, 11" | Degrees Minutes Seconds O , , , , , , , , , , , , , , , , , , , | | | | | |
| LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERL | ADDING STATE OF COUNTRY BOUNDABLES | | | | | |
| STATE: | | | | | | |
| STATE: CODE | COUNTY DEC 26 1972 0 CODE - | | | | | |
| STATE: CODE | COUNTRAL NATIONAL CODE | | | | | |
| STATE: CODE | COUNTY CODE - | | | | | |
| | | | | | | |
| 11. FORM PREPARED BY | | | | | | |
| NAME AND TITLE: | | | | | | |
| Nancy Miller, Historian | | | | | | |
| ORGANIZATION | | | | | | |
| Maryland Historical Trust | Aug. 17, 1972 – | | | | | |
| 2525 Riva Road | 0 | | | | | |
| CITY OR TOWN: | STATE CODE | | | | | |
| Annapolis | Maryland 21401 24 | | | | | |
| 12. STATE LIAISON OFFICER CERTIFICATION | NATIONAL REGISTER VERIFICATION | | | | | |
| The state claison of theek centrification | | | | | | |
| As the designated State Liaison Officer for the Na- tional Historic Preservation Act of 1966 (Public Law 89-665), I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and procedures set forth by the National Park Service. The recommended level of significance of this nomination is: National 	State 	Local | I hereby certify that this property is included in the National Register. | | | | | |
| Name <u>Ulândo Uidenhir</u> Orlando Ridout IV <i>UCL</i> . Title <u>State Liaison Officer for</u> Maryland _{Date} Aug. 17, 1972 | DateATTEST: ATTEST: Keeper of The National Register Late | | | | | |
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