

APPENDIX D1

SECTION 106 DETERMINATIONS OF EFFECT



D.C. TO RICHMOND SOUTHEAST HIGH SPEED RAIL

Appendix D1

SECTION 106 DETERMINATIONS OF EFFECT

Section 106 of the National Historic Preservation Act of 1966 (NHPA), as amended (54 U.S.C. 306108), and implementing regulations (36 CFR Part 800) require federal agencies to consider the effects of their actions on historic properties and to afford the Advisory Council on Historic Preservation (ACHP) an opportunity to comment if the action would result in an adverse effect on any property listed in or eligible for the National Register of Historic Places (NRHP). The purpose of this appendix is to provide additional detail on the background and history of the Section 106 process that led to the determinations of effect for the cultural resources that are summarized in the Final Environmental Impact Statement (EIS), specifically Chapter 5 (Environmental Consequences) and Chapter 6 (Final Section 4(f) Evaluation).

- Section D1.1 identifies the historic properties
- Section D1.2 identifies the determination of effect for each historic property
- Section D1.3 summarizes mitigation measures related to the determinations of effect

The archaeology and architecture reports are presented in Appendices D2 through D6 of the Final EIS and Appendix R of the Draft EIS, and include mapping of cultural resources. Comments and coordination on the Section 106 process are provided in Appendix E of the Final EIS.

D1.1 ARCHAEOLOGICAL AND ABOVE GROUND CULTURAL AND HISTORIC RESOURCES

Through the cultural resource studies for the Project (see Appendices D2 through D6 of this document and Appendices R and U of the Draft EIS), DRPT identified 120 historic properties within the Project's Area of Potential Effect (APE)¹ for the Preferred Alternative. These 120 historic properties are presented in Table D1.1-1, and include:

- 13 archaeological sites
- 96 above ground resources
- 1 resource with above ground and below ground components
- 10 battlefields

¹ The APE is defined before the identification of historic properties and includes areas where the Project could impact character-defining features, directly or indirectly. While the Project limits of disturbance (LOD) are the physical boundary of construction and related activities, the APE considers all locations where the Project may result in ground disturbances, visible or audible disturbances, or changes in public access, traffic patterns, or land use.

All 120 resources were evaluated under Section 106 of the National Historic Preservation Act to determine Project effects, detailed in Section D1.2 and summarized in Chapter 5, which highlights determinations of adverse effect, no adverse effect, and no effect for each resource. The 120 Section 106 properties were also evaluated separately under Section 4(f) of the Department of Transportation Act, which is provided in Chapter 6 of the Final EIS.

Changes since the Draft EIS. There were 158 historic properties reported in the APE of all Build Alternatives under consideration in the Draft EIS. Since the publication of the Draft EIS, engineering refinements to the Limits of Disturbance (LOD) have occurred to minimize impacts of the Preferred Alternative. Additional cultural resource studies were completed for the Preferred Alternative between January and July 2018, including Phase I archaeological survey, reconnaissance architectural survey, and intensive architectural studies. This work, as well as a reanalysis of all previously recorded resources in the APE and extensive coordination with Section 106 consulting parties and the general public, resulted in modifications to the draft list of historic properties in the APE. Since the publication of the Draft EIS, 53 resources were removed from the list and 15 were added, resulting in an updated total of 120 historic properties in the Project APE of the Preferred Alternative to be evaluated as part of the Final EIS.

- Resources that have been added to the APE since the Draft EIS are denoted by an asterisk in Table D1.1-1.
- Resources that have been removed from the APE since the Draft EIS are listed separately in Table D1.1-2.

NHRP Eligibility. A historic property is defined as any resource that is eligible for, assumed eligible for, or listed in the National Register of Historic Places (NRHP). The majority of the 120 historic properties that are included in the Final EIS (n=93) have been determined to be eligible for or are already listed in the NRHP. Another 26 have been determined to be potentially eligible for the NRHP, but are being assumed to be eligible as part of this Project. Most of these resources are archaeological sites that have been identified but not yet the subject of Phase II-level archaeological testing. If any of these sites will be impacted by the Project, DRPT has committed to completing data recovery studies on impact areas regardless of eligibility determinations. The one remaining resource was not accessible during the technical studies due to denied property access. DRPT has elected to consider this resource eligible for the NRHP as well. Regardless of eligibility status (potentially eligible, eligible, listed, or not accessible), DRPT is treating all 120 resources as historic properties. DRPT determined that these resources meet one or more of the following NRHP eligibility criteria:




- Criterion A—Associated with events that have made a significant contribution to the broad patterns of our history.
- Criterion B—Associated with the lives of persons significant in our past.
- Criterion C—Embodies the distinctive characteristics of a type, period, or method of construction, or that represents the work of a master, or that possesses high artistic values, or that represents a significant and distinguishable entity whose components may lack individual distinction.
- Criterion D—Has yielded or may be likely to yield information important in prehistory or history. Although resources considered eligible for the NRHP under Criterion D alone are evaluated for project effect, a resource must be eligible for one other criterion in

addition to D (wherein preservation in place is warranted) to be considered a Section 4(f) resource.

In addition to the four criteria listed above, there are seven additional criteria considerations. Ordinarily cemeteries, birthplaces, graves of historical figures, properties owned by religious institutions or used for religious purposes, structures that have been moved from their original locations, reconstructed historic buildings, properties primarily commemorative in nature, and properties that have achieved significance within the past 50 years shall not be considered eligible for the NRHP. However, such properties will qualify if they are integral parts of districts that do meet the criteria or if they fall within the following “additional criteria consideration” categories:





- a) A religious property deriving primary significance from architectural or artistic distinction or historical importance; or
- b) A building or structure removed from its original location but which is primarily significant for architectural value, or which is the surviving structure most importantly associated with a historic person or event; or
- c) A birthplace or grave of a historical figure of outstanding importance if there is no appropriate site or building associated with his or her productive life; or
- d) A cemetery that derives its primary importance from graves of persons of transcendent importance, from age, from distinctive design features, or from association with historic events; or
- e) A reconstructed building when accurately executed in a suitable environment and presented in a dignified manner as part of a restoration master plan, and when no other building or structure with the same association has survived; or
- f) A property primarily commemorative in intent if design, age, tradition, or symbolic value has invested it with its own exceptional significance; or
- g) A property achieving significance within the past 50 years if it is of exceptional importance.

Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
1	500-0001	Richmond, Fredericksburg, and Potomac Railroad	Arlington County, City of Alexandria, Fairfax County, Prince William County, Stafford County, City of Fredericksburg, Spotsylvania County, Caroline County, Hanover County, Henrico County, City of Richmond	1836-1943	The RF&P opened in 1836 and eventually spanned from the Potomac River to Richmond. The corridor includes the main rail line, spurs, and associated elements such as station houses, bridges, and other structures.	Eligible under Criterion A	
2	029-0218	Mount Vernon Memorial Highway (portion of George Washington Memorial Parkway)	Fairfax County, Arlington County, City of Alexandria	ca. 1929	The Mount Vernon Memorial Highway is an 8 1/2-mile section of the George Washington Memorial Parkway from Fairfax County to the southern boundary of Alexandria. The four-lane wide highway was constructed with concrete slab construction and much of the concrete remains intact.	Listed under Criteria A and C	
3	000-0045	Washington National Airport (Reagan National Airport)	Arlington County	1941	The primary/historic building is a four-story, multi-bay, airline passenger terminal constructed in the Moderne style. Property also includes six ca. 1941 airplane hangars and associated runways and other landscape elements.	Listed under Criteria A and C	

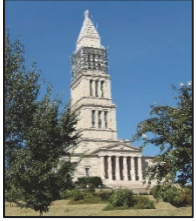



► Continued – see end of table for notes.

Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
4	100-0160	George Washington Junior High School, 1005 Mt. Vernon Avenue	City of Alexandria	1935	The resource is a three-story, multi-bay school building constructed in the Art Deco style originally in a rectangular form. The building is constructed of large, cut, grey sandstone and brick laid in an irregular bond.	Potentially Eligible under C (Assuming eligible for undertaking)	
5	100-0133	Parker-Gray Historic District/Uptown	City of Alexandria	ca. 1810	The district covers over 45 blocks in the northwestern quadrant of Old Town Alexandria and abuts the Alexandria Historic District. It consists mainly of small row houses and townhomes built in the mid-to-late nineteenth century.	Listed under Criteria A and C	
6	100-0137	Rosemont Historic District	City of Alexandria	ca. 1900	The district is a planned, residential subdivision that is located northwest of Old Town Alexandria. It consists mainly of small, middle-class houses built between 1908 and 1940.	Listed under Criteria A and C	
7	100-0124	Alexandria Union Station, 110 Callahan Drive	City of Alexandria	1905	The train depot known as Alexandria Union Station at 110 Callahan Drive is a one-and-one-half-story, multi-bay, passenger depot constructed in the Colonial Revival style.	Listed under Criteria A and C	





► Continued – see end of table for notes.

Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
8	100-0128	George Washington National Masonic Memorial	City of Alexandria	ca. 1922	The resource at 101 Callahan Drive is a nine-story, multi-bay, memorial and museum sitting on a designed knoll constructed in the Classical Revival style.	Listed under Criterion C and Criteria Consideration F	
9	100-0277	Phoenix Mill, 3642 Wheeler Avenue	City of Alexandria	ca. 1776	The building is a two-story, three-bay, industrial building. It is purportedly the “sole remaining example of a mill structure in Alexandria.”	Eligible under Criteria A and C	
10	029-0953	Old Colchester Road, Potomac Path, King's Highway	Fairfax County	ca. 1664	This two-lane asphalt road runs northeast from the Occoquan River for approximately 4 miles to the intersection with Route 1 in Lorton. Old Colchester Road played an important role in the county's early transportation history.	Eligible under Criterion A	
11	029-0043	Colchester Arms, Fairfax Arms, 10712 Old Colchester Road	Fairfax County	ca. 1756	The building is a one-and-a-half story, four-bay tavern constructed with an irregular four-room plan. The timber-framed structural system rests on a continuous, raised-basement, stone foundation.	Listed under Criteria A and C	




► Continued – see end of table for notes.

Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
12	500-0001-0022	RF&P Bridge over Occoquan River	Prince William County	1915	The resource is a through-truss, camelback railroad bridge constructed close to the middle of the height of this type of structure, 1870-1930. Although once common, few have survived.	Eligible under Criterion C; Contributing to RF&P HD	 500-0001-0022
13	076-0023	*Rippon Lodge	Prince William County	1747	One of the oldest houses in Prince William County, the vista from Rippon Lodge looking down Neabsco Creek (and future site of the railroad) was documented by Benjamin Latrobe.	Listed under Criteria A and B	 076-0023
14	44ST1223	*Civil War Campsite	Stafford County	1862-1863	This site represents a Civil War campsite occupied during the winter of 1862–1863 when the Union Army was ordered into winter quarters.	Potentially Eligible under Criterion D (Assuming eligible for undertaking)	 44ST1223
15	111-0147	Fredericksburg & Spotsylvania Co. Battlefields National Military Park & Cemetery, Lee Drive	City of Fredericksburg	1862	The resource is a Civil War battlefield park composed of earthworks, cannons, and informational markers in addition to a total of 429 non-archaeological cultural resources, 350 of which are considered contributing to its significance.	Listed under Criteria A and D	 111-0147




► Continued – see end of table for notes.

Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
16	111-5295	Battle of Fredericksburg I	City of Fredericksburg	1862	The battlefield is the location of a Civil War battle that occurred between December 11 and December 15, 1862. Union Major General Ambrose Burnside and his troops battled General Robert E. Lee's Confederate men, resulting in a Confederate victory. The battlefield continues to retain a high level of integrity.	Eligible/ Potentially Eligible under Criterion A	
17	111-5296	Battle of Fredericksburg II	City of Fredericksburg	1863	The Battlefield is a 12,694.2-acre battlefield associated with a Civil War battle of the same name, which took place on May 3, 1863. Despite expansive residential, commercial, and industrial development around the battlefield and the Fredericksburg, it continues to retain a high level of integrity.	Eligible/ Potentially Eligible under Criterion A	
18	111-0132-0025	Rappahannock River Railroad Bridge and Associated Structures/Platform	City of Fredericksburg	1927	This multiple-span, open-spandrel, concrete-arch bridge is an excellent and rare surviving example of a reinforced-concrete arch railroad bridge within this region of Virginia. It was erected when the station and tracks were elevated for automobile traffic pass through in downtown Fredericksburg.	Eligible under Criterion C; Contributing to Fredericksburg HD and RF&P HD	





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North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
19	44SP0187	Bridge/Marye's Mill	City of Fredericksburg	19th century	Terrestrial portion of the site occupies the location of Marye's Mill, depicted in an 1863 photograph taken during the Second Battle of Fredericksburg and mills identified on Gray's (1878) map of late-nineteenth-century Fredericksburg. Includes cut stone piers that are now located under the waters of the Rappahannock River, which may be associated with earlier railroad structures that are no longer extant.	Potentially Eligible under Criteria A and D (Assuming eligible for undertaking)	
20	111-0132	Fredericksburg Historic District	City of Fredericksburg	post 1727	The district is a 200-acre area that comprises the city's downtown commercial area, adjacent industrial area, and some of the surrounding residential blocks. This part of Fredericksburg boasts a wide variety of infrastructure that ranges in date from the early eighteenth century through the late twentieth century.	Listed under Criterion C	
21	44SP0688	*Block 49/Train Station	City of Fredericksburg	Late Archaic; 19th/20th c	Archaeological remains of several dwellings, outbuildings, and industrial features as identified by UMW in the early 1990s.	Potentially Eligible under Criterion D (Assuming eligible for undertaking)	





► Continued – see end of table for notes.

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North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
22	111-0067/ 111-0132-0505	*Dr. Charles Mortimer House, House, 213 Caroline Street	City of Fredericksburg	1764-1801	The home is a two-story, five-bay, Federal-style single-family dwelling built ca. 1764 in the Georgian style. Dr. Charles Mortimer was an important figure in Fredericksburg's history. The house is also one of a handful of high-style Georgian buildings in Fredericksburg and it is the only example with its original outbuildings.	Eligible under Criteria B and C; Contributing to Fredericksburg HD	
23	111-0132-0458	*Robert Adams Residence, 528 Caroline Street	City of Fredericksburg	1891	The two story, two-bay resource was built in 1891 as a high-style Italianate dwelling. No other high-style, Italianate dwellings are located within the boundaries of the Fredericksburg Historic District.	Eligible under Criterion C; Contributing to Fredericksburg HD	
24	111-0132-0147	*Shiloh Baptist Church New Site, 521 Princess Anne Street	City of Fredericksburg	1890-1968	This 2-story, multi-bay, Colonial Revival-style church was constructed in 1890 and has been an important part of the ante- and post-bellum, African-American community, playing a role in early African-American education and the Civil Rights Movement in Fredericksburg.	Eligible under Criteria A and C and Criteria Consideration A; Contributing to Fredericksburg HD	
25	44SP0687	*Block 48/Train Station	City of Fredericksburg	Late Archaic; 19th/20th c	Archaeological remains of several dwellings, outbuildings, and industrial features as identified by UMW in the early 1990s.	Potentially Eligible under Criterion D (Assuming eligible for undertaking)	





► Continued – see end of table for notes.

Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
26	111-0132-0704	Fredericksburg Train Station, 200 Lafayette Boulevard	City of Fredericksburg	1910	The depot is a two-story, five-bay building constructed in the Neoclassical style designed by notable local architect Peck Heflin. The adjacent rail tracks were raised in 1927.	Eligible under Criteria A and C; Contributing to Fredericksburg HD	 111-0132-0704
27	111-0132-0126	*The 1770 House, 227 Princess Anne Street	City of Fredericksburg	1770	The home is a one-and-one-half-story dwelling constructed ca. 1770 in the Tidewater tradition with some Georgian-style elements. It is a unique example of an eighteenth-century, working-class home in this part of town.	Potentially Eligible under Criterion C (Assuming eligible for undertaking); Contributing to Fredericksburg HD	 111-0132-0126
28	111-0132-0020	Purina Tower	City of Fredericksburg	1916	The resource is a one-and-one-half story commercial building with a tall grain elevator at the northwest corner. The tower has become an important landscape landmark within the community.	Eligible under Criteria A and C; Contributing to Fredericksburg HD	 111-0132-0020
29	111-0132-0522	House, 314-316 Frederick Street	City of Fredericksburg	1851	This is a two-story, four-bay vernacular brick duplex. Oral history states that the building was used as a slave jail in the antebellum period.	Eligible under Criteria A and B; Contributing to Fredericksburg HD	 111-0132-0522





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North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
30	111-0009-0795	Pulliam's Service Station, 411 Lafayette Boulevard	City of Fredericksburg	ca. 1937	This resource is a one-story filling station constructed in the Spanish Revival style. It still retains its original materials and configuration.	Eligible under Criteria A and C; Contributing to Fredericksburg HD	
31	111-0009	Fredericksburg Historic District Extension	City of Fredericksburg	1794-1967	The district extension is a large area that includes a wide variety of resources immediately surrounding the city's downtown core including residences, commercial buildings, and churches dating to the 19th and 20th c.	Eligible under Criteria A and C	
32	088-5181	Salem Church Battlefield (Banks Ford Battlefield)	Spotsylvania County, City of Fredericksburg	1863	The battlefield includes the land where Hay's and Hoke's brigades attacked the Union Sixth Corps in 1863. It includes Confederate earthworks, Salem Church, and the path of the Plank Road.	Eligible under Criterion A	
33	088-5364	Virginia Central Railway Historic District	City of Fredericksburg, Spotsylvania County, and more	1853	The district is a 38-mile-long railroad corridor that extends west from the CSXT railroad (formerly the RF&P) in Fredericksburg to the town of Orange encompassing rail-related structures, sites, and landscape features. The 3.5-mile long eastern section is eligible.	Eligible under Criterion A	





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North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
34	111-0145	Fredericksburg Gun Manufactory	City of Fredericksburg	ca. 1775	The Fredericksburg Gun Manufactory is an archaeological site that is at least 75 percent intact. The remains of the manufacturing facility are located beneath a paved asphalt parking lot for a public school.	Listed under Criteria A and D	
35	088-0254	Slaughter Pen Farm, 11232 Tidewater Trail (Wayside Farm or Pierson Farm)	Spotsylvania County	ca. 1861	Slaughter Pen Farm, also known as Wayside Farm or Pierson Farm, is a 19th century farm complex composed of a two-story, three-bay, Italianate-style, single-family dwelling, three agricultural outbuildings, a shed, one kitchen, a slave quarters, and a well.	Eligible under Criterion A	
36	44SP0468	Earthwork/ Jackson's Earthwork	Spotsylvania County	1861	This resource includes a set of earthworks within a larger archaeological site. The area is almost totally enclosed by lines of military shelter trenches constructed prior to or following the First Battle of Fredericksburg.	Potentially Eligible under Criteria A, C and D (Assuming eligible for undertaking)	
37	088-0039	La Vue, 3232 LaVue Lane (Prospect View)	Spotsylvania County	ca. 1848	La Vue, also known as Prospect View, is a two-story, three-bay, single-family dwelling constructed in the Greek Revival style with an L-plan.	Listed under Criterion C	




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North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
38	016-0092	Fairfield Plantation Office, Jackson Shrine, 12019 Stonewall Jackson Road	Caroline County	1828	The resource is a one-and-a-half-story frame building; it once served as the office for the 740-acre Fairfield Plantation and is the only surviving building. On May 10, 1863, Confederate General Thomas Jonathan “Stonewall” Jackson died at the site after being wounded at the Battle of Chancellorsville.	Eligible under Criteria A and C	
39	016-0208	House, 12096 Guinea Drive	Caroline County	ca. 1900	The resource is a one-and-a-half-story vernacular dwelling with Queen Anne and Craftsman elements. The house was built from a kit purchased from the Sears & Roebuck Company.	Potentially Eligible under Criterion C (Assuming eligible for undertaking)	
40	016-5165	Excelsior Industry of Caroline County MPD	Caroline County	ca. 1925-1960	This is a thematic collection of resources that are associated with the manufacture of excelsior, Caroline County’s largest industry in the early twentieth century.	Eligible under Criteria A and C	
41	016-0223	First Woodford Post Office	Caroline County	1874	This small frame office building is located immediately adjacent to the railroad and is associated with the Woodford Excelsior Company, Caroline County’s first excelsior manufacturer. It was the focal point of the operation.	Eligible under Criteria A and C	





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Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
42	016-0222	Woodford Freight & Passenger Depot, Woodford Road	Caroline County	ca. 1900	The resource is a long, rectangular, one-story, framed building constructed circa 1900. The building served a combined function as both a freight depot and a passenger depot and was one of five original stops along the RF&P in Caroline County.	Eligible under Criteria A and C; Contributing to RF&P HD	 016-0222
43	016-0220	Carolina Mansion, 11146 Woodford Road	Caroline County	ca. 1900	The ornate, two-and-a-half-story, wood framed dwelling was designed in the Queen Anne style with Classical detailing. The building represents housing constructed in the area in the early-twentieth century, when the RF&P and new manufacturing enterprises brought economic prosperity to the local region.	Potentially Eligible under Criterion C (Assuming eligible for undertaking)	 016-0220
44	016-5136	Milford Historic District	Caroline County	ca. 1880–1960	The district was originally established in the late-eighteenth century as a tobacco trading center. In 1836, the RF&P Railroad was constructed through the area and Milford soon became the largest of the small communities in the county situated along the railroad.	Eligible under Criteria A and C	 016-5136





► Continued – see end of table for notes.

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North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
45	016-0270	Milford State Bank, 15461 Antioch Road	Caroline County	ca. 1910	The bank is a two-story brick building constructed in the Classical Revival style. The building's façade is divided into five distinct bays via brick pilasters. It is the only Classical Revival building as well as the only bank in the village of Milford.	Potentially Eligible under Criterion C (Assuming eligible for undertaking)	 016-0270
46	016-0286	Coghill-Jeter Store, 22275 Penola Road; Penola, 16095 Polecat Lane	Caroline County	1880	The resource is a two-story, wood-framed commercial building. It is the only surviving commercial building in the largely abandoned village of Penola and is representative of the small country stores once found in crossroads communities and railroad stops throughout the area.	Eligible under Criteria A and C	 016-0286
47	042-0123	North Anna Battlefield	Hanover County	1864	The North Anna Battlefield was the location of one of the most important Civil War campaigns in the state. It was the culminating point of the 1864 Overland Campaign. The battlefield is composed of defensive earthworks and trenches, as well as other elements predating and contemporaneous with the battle.	Eligible under Criterion A	 042-0123
48	042-5448	Doswell Historic District	Hanover County	ca. 1880-1940	Doswell Historic District encompasses a rural community that was once a center of major activity along road and rail networks. Nearly a dozen historic properties are located within the district's boundaries.	Eligible under Criteria A and C	 042-5448





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North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
49	042-0093	Doswell Depot and Tower, 10577 Doswell Rd	Hanover County	ca. 1928	The current depot is a well-balanced design with classical-styled architectural features. The nearby, contemporaneous “HN tower” housed electrical systems managing an interlocking device permitting safe crossing of trains over both railroads.	Eligible under Criteria A and C; Contributes to RF&P HD and Doswell HD	
50	042-5307	Taylorville Road Historic District	Hanover County	ca. 1900-1935	The community was settled in the early-nineteenth century and has remained active to present day. Most built features are residential and agricultural in nature within the district and reflect architectural styles and construction methods from the late-nineteenth to mid-twentieth century.	Eligible under Criteria A and C	
51	042-0556	*Hoopers, 11108 McConnell Lane	Hanover County	1810	Resource was recorded during the LOD survey document, but it was not accessible during the study; DHR suggested that it be considered potentially eligible for the Project on April 4, 2018.	Not evaluated; Not accessible (Assuming eligible for undertaking)	
52	166-5073	Berkleytown Historic District	Hanover County	ca. 1900-1965	The district is typical of many small-town, twentieth-century, African-American neighborhoods in that it was relatively isolated from the formal downtown core and is dotted by small vernacular dwellings.	Eligible under Criterion A	





► Continued – see end of table for notes.

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North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
53	166-0001	Ashland Historic District	Hanover County	1850-1950	The Ashland Historic District, with its large collection of late-Victorian and Edwardian frame dwellings and its brick commercial core, all set among hundreds of trees, survives as a fine example of a railroad and streetcar suburb preserving much of its turn-of-the-century character.	Listed under Criteria A and C	
54	166-0001-0015	Business Office, Randolph-Macon, 310 N. Center Street	Hanover County	ca. 1895	Historically known as the Blackwell House, it is an elaborate and outstanding example of Queen Anne-styled architecture with Eastlake elements in this historic community.	Potentially Eligible under C (Assuming eligible for undertaking); Contributing to Ashland HD	
55	166-5072	Randolph-Macon College Historic District Expansion	Hanover County	ca. 1900-1960	The Randolph-Macon College Historic District Expansion highlights a significant part of campus that developed between the early-twentieth century up to the mid-1960s when a substantial building boom occurred.	Potentially Eligible under Criteria A and C (Assuming eligible for undertaking)	
56	166-0002	Randolph-Macon College Historic District	Hanover County	1872-1950	The district includes the 85-acre college campus and all associated buildings, structures and landscape features. This is the oldest Methodist-related college in the United States still in operation.	Listed under Criteria A and C	





► Continued – see end of table for notes.

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North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
57	166-0001-0008	Ashland Station Depot, 112 N. Railroad Avenue	Hanover County	1910	The one-story, five-bay, brick depot is said to have been designed by W. P. Lee to replace a previous circa-1890 station that had burned. The building appears little altered and is a good example of a Colonial Revival-styled depot.	Potentially Eligible under A and C (Assuming eligible for undertaking); Contributing to Ashland HD	 166-0001-0008
58	166-5041	Priddy House, 107 Stebbins Street	Hanover County	ca. 1926	This one-and-a-half-story, four-bay, single-family dwelling is an outstanding example of Craftsman-styled domestic architecture in this community.	Potentially Eligible under Criterion C (Assuming eligible for undertaking); Contributing to Ashland HD	 166-5041
59	166-0001-0055	Emily Gray House, 702 S. Center Street	Hanover County	ca. 1850	Historically known as the Emily Gray House, this one-and-a-half-story, three-bay resource is an outstanding example of Second Empire-styled architecture.	Potentially Eligible under Criterion C (Assuming eligible for undertaking); Contributing to Ashland HD	 166-0001-0055
60	166-0001-0060	Fleming Fox House, 708 S. Center Street	Hanover County	ca. 1894	Historically known as the Fleming Fox House, this two-and-a-half-story, four-bay dwelling is an outstanding example of a Colonial Revival-styled dwelling with Free Classic elements.	Potentially Eligible under Criterion C (Assuming eligible for undertaking); Contributing to Ashland HD	 166-0001-0060





► Continued – see end of table for notes.

Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
61	166-0036	MacMurdo House, 713 S. Center Street	Hanover County	ca. 1858	This two-story, three-bay, Greek Revival, single-family dwelling is one of the few buildings of its style in Ashland, and it has excellent historic integrity.	Potentially Eligible under Criterion C (Assuming eligible for undertaking); Contributing to Ashland HD	 A photograph of the MacMurdo House, a two-story, three-bay Greek Revival style house with a white facade and dark shutters, set on a lawn.
62	166-0037	Hugo House/Lefebvre House, 904 S. Central Street	Hanover County	ca. 1886	This two-story, three-bay, Queen-Anne, frame dwelling is an elaborate and outstanding example of Queen Anne-styled architecture in the community.	Potentially Eligible under Criterion C (Assuming eligible for undertaking); Contributing to Ashland HD	 A photograph of the Hugo House/Lefebvre House, a Queen-Anne style house with a prominent porch and a small tower, surrounded by trees.
63	166-0001-0077	House, 1005 S. Center Street	Hanover County	ca. 1890	This two-and-a-half-story, four-bay, Folk Victorian dwelling possesses characteristics of Queen Anne while its form and orientation suggest an earlier construction date.	Potentially Eligible under Criterion C (Assuming eligible for undertaking); Contributing to Ashland HD	 A photograph of a Folk Victorian style house with a dark roof and white trim, situated on a large lawn.
64	042-0113	*Charles Gwathmey House, 11247 Gwathmey Church Road	Hanover County	1896	An outstanding example of the high Queen Anne style in a small crossroads community built for local Judge, Charles Gwathmey.	Eligible under Criterion C	 A photograph of the Charles Gwathmey House, a high Queen Anne style house with a complex roofline and a wrap-around porch.




► Continued – see end of table for notes.

Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
65	043-0694	Hunton Treasures, 11701 Greenwood Road	Henrico County	1930	This resource is a two-story, three-bay commercial building constructed with attributes from the Spanish Revival/Eclectic style. It is an outstanding example of the style.	Eligible under Criterion C	
66	043-5108	Yellow Tavern Battlefield	Henrico County	1864	The battlefield is the location of a Civil War battle that took place in May 1864. Major General J.E.B. Stuart was wounded and later died as a result of this injury; the battle ended in a Union victory.	Eligible/Potentially Eligible under Criterion A	
67	043-0690	Lewis-McLeod House, 2945 Mountain Road	Henrico County	ca. 1921	The dwelling is a two-story, three-bay, Colonial Revival-style single-family home. The building is an outstanding example of the Colonial Revival style and retains integrity of materials and design.	Potentially Eligible under Criterion C (Assuming eligible for undertaking)	
68	043-0292	Laurel Industrial School Historic District, Hungary Road	Henrico County	1892	The district consists of a complex of buildings that were part of a school founded under the patronage of the Prison Association of Virginia, a group of private citizens who sought to reform the state's penal system, by establishing a self-supporting model industrial reformatory for boys.	Listed under Criteria A and C	




► Continued – see end of table for notes.

Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
69	043-0292-0001	Main Building/Robert Stiles Building/Bluford Office Building, 2900 Hungary Road	Henrico County	1895	This resource is a two-story, seven-bay, main school building constructed in the Romanesque Revival style. The resource, now used as an office building, acted as the main dormitory, chapel, school, and dining hall for the incarcerated boys during the school's tenure.	Eligible under Criteria A and C; Contributing to Laurel Industrial School HD	 043-0292-0001
70	127-6136	Scott's Addition Historic District	City of Richmond	post-1900	This area is a 152-acre industrial and commercial district in Richmond featuring 287 contributing resources built primarily between 1900 and 1956 in the Colonial Revival, Classical Revival, Mission, Moderne, International, and Art Deco styles.	Listed under Criteria A and C	 127-6136
71	127-6188	Movieland Bowtie Cinema, 1331 North Boulevard	City of Richmond	1887	The building, previously known as the Richmond Locomotive & Machine Works, the American Locomotive Company, and Richmond Works, is an industrial complex with two buildings, the brass foundry and the iron foundry, that are both steel framed resources with masonry walls.	Listed under Criteria A and C	 127-6188




► Continued – see end of table for notes.

Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
72	127-6730	Hermitage Road Warehouse Historic District	City of Richmond	1930-1958	This industrial district is characterized by roughly a dozen medium- to large-scale one-story warehouse buildings set on a gridded block pattern. Most of the buildings have large footprints that occupy the majority of the block on which they sit. The buildings are typically one-story, clad in brick, covered with flat roofs.	Listed under Criteria A and C	 127-6730
73	127-5978	Todd Lofts, 1128 Hermitage Road	City of Richmond	1892	The structure is a five-story, multi-bay commercial building. Originally built as the Richmond Brewery, the E.M. Todd Company bought the building in 1919 and expanded it into a meat production facility. Until 1998, this resource housed the county's oldest meat processor in continuous business.	Listed under Criterion A	 127-5978
74	127-6145	Southern Stove Works, 1215 Hermitage Road	City of Richmond	1905	This resource is an industrial complex of four brick buildings and a water tower built during the time of rapid industrialization in Richmond. Southern Stove Works was one of the two largest and most important stove making plants in Richmond and the South.	Listed under Criteria A and C	 127-6145




► Continued – see end of table for notes.

Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
75	127-0414	Governor's School, 1000 North Lombardy Street	City of Richmond	1938	The building, also known as the Maggie Walker School, is a three-story, multi-bay, school built in the Art Deco style. The school was designed by prominent Richmond architects Carneal, Johnson & Wright as the first vocational high school in Richmond for African-Americans.	Listed under Criteria A and C	 A photograph of a large, multi-story brick building with a flat roof and several windows. The building is surrounded by trees and a paved area. A small label '127-0414' is visible in the bottom left corner of the image.
76	127-0354	Virginia Union University Historic District, 1500 North Lombardy Street	City of Richmond	1899	The district consists of 11 acres of the Virginia Union University campus that contain the original collegiate buildings built in a simplified Richardsonian Romanesque style. The university was originally established to educate newly emancipated freedman following the Civil War.	Listed under Criteria A and C	 A photograph of a large, multi-story brick building with a prominent tower and arched windows. The building is set on a large, green lawn. A small label '127-0354' is visible in the top right corner of the image.
77	127-0822	Carver Residential Historic District	City of Richmond	1845-1920	This 57-acre district comprises primarily late-nineteenth-to-early-twentieth-century residential, commercial, and public buildings. The majority of buildings in the district were constructed during a period of rapid economic growth that took place in Richmond between the 1880s and early 1900s.	Listed under Criteria A and C	 A photograph of a residential street with several houses and trees. A utility pole is visible on the right side of the street. A small label '127-0822' is visible in the top right corner of the image.



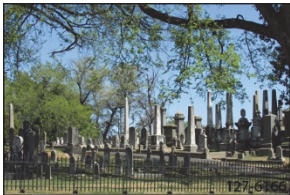
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Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
78	127-0428	George W. Carver Elementary School, 1110 West Leigh Streets	City of Richmond	1887	The resource is a two-and-a-half-story, five-bay, school built in the Italianate style. The school was purpose-built as a public school for African-American students and saw a notable increase in use in the early-20th century.	Eligible under Criterion C; Contributing to Carver Residential HD	 127-0428
79	127-6171	Richmond and Chesapeake Bay Railway Barn), Richmond-Ashland Railway Company Car Barn	City of Richmond	1907	The resource is a utilitarian industrial building with a T-plan building, structural steel frame, and a Fink Truss roof. It is one of the few surviving buildings associated with the independent electric railway that provided service between the City of Richmond and the Town of Ashland from 1907 to 1938.	Listed under Criteria A and C	 127-6171
80	127-6883	*Gilpin Court Apartment Complex, 203 Charity Street West/ 4 E. Hill Street/1403 St. James St./ 1100 N 2nd Street	City of Richmond	1942	The complex consists of 21 buildings, including 18 apartment buildings, a community center, a central heating plant, and a concession building. It was constructed in the early 1940s by the Richmond Redevelopment and Housing Authority and is the first public housing complex constructed in the city.	Eligible under Criteria A and C	 127-6883





► Continued – see end of table for notes.

Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
81	127-5679	Barton Heights Cemetery, 1600 Lamb Avenue	City of Richmond	1814	This area is a 12-acre parcel that contains six contiguous, but originally separate, cemeteries laid out in a grid pattern with hundreds of markers of differing materials, sizes, and styles. The cemeteries are significant because they represent early efforts by the African-American population in Richmond to establish their own cemeteries.	Listed under Criteria A and B and Criteria Consideration D	 127-5679
82	127-0353	Richmond Nursing Home, 210 Hospital Street	City of Richmond	1860	This resource is a three-story, multi-bay, institutional building in the Italianate style. It was built by the City of Richmond as an almshouse for the poor and represents the social reform movements that were prevalent throughout Antebellum America.	Listed under Criterion C	 127-0353
83	127-6166	Hebrew Cemetery, 320 Hospital Street	City of Richmond	1816	Previously known as the Hebrew Burying Ground, this resource is an 8.4-acre cemetery with about 2,600 interments that is still in active use today. The Hebrew Cemetery is the oldest active Jewish cemetery in continuous use on the South as well as being the oldest cemetery in continuous use in Richmond.	Listed under Criteria A and C	 127-6166





► Continued – see end of table for notes.

Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
84	44HE1203	*Grave Yard for Free People of Color and Slaves	City of Richmond	1816	Historic maps from the early-nineteenth century represent this cemetery, used after closing the "Burial Ground for Negroes" in Shockoe Bottom. The cemetery was used from 1816 until the mid-nineteenth century. No above-ground evidence of the cemetery exists, and its integrity is unknown.	Potentially Eligible under Criteria A and D (Assuming eligible for undertaking)	
85	127-0344	Shockoe Valley & Tobacco Row Historic District	City of Richmond	post 1737	This district encompasses the area of Richmond's earliest residential, commercial, and manufacturing activity; architectural styles ranging from Federal through twentieth-century industrial vernacular.	Listed under Criteria A and C	
86	44HE1053	*Lumpkins Jail/ Devil's Half Acre	City of Richmond	1830s through 1850s	Archaeological site of Lumpkins Jail, established by Robert Lumpkin to house enslaved African-Americans prior to sale and transport. Archaeological excavations in 2005 and 2008 revealed portions of the complex and 16,000 artifacts.	Potentially Eligible under Criteria A and D (Assuming eligible for undertaking).	
87	44HE1098	Main Street Station Parking Lot/Railroad	City of Richmond	19th century	Archaeological site of unknown date. Recorded based on map projections. Potential for intact remains below pavement is high. Railroad elevation structure is located in the parking lot. If the proposed rail is located on the structure, there will be no subsurface disturbances.	Potentially Eligible under Criterion D (Assuming eligible for undertaking)	





► Continued – see end of table for notes.

Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
88	127-6129	Winfree Cottage, East Main Street	City of Richmond	ca. 1866	This dwelling is a one-story cottage constructed in no discernible style. The cottage was constructed for Emily Winfree by her former owner and moved to its current location in 2002.	Eligible under Criterion C and Criteria Consideration B	
89	44HE1097	Railroad, Warehouse	City of Richmond	19th century	Archaeological site of unknown date. Recorded based on map projections. Potential for intact remains below pavement is high. Railroad elevation structure is located in the parking lot. If the proposed rail is located on the structure, there will be no subsurface disturbances.	Potentially Eligible under Criterion D (Assuming eligible for undertaking)	
90	127-0172	Main Street Station and Trainshed, New Union Station, Seaboard Airline & Chesapeake & Ohio Railroad Depot	City of Richmond	1901	This multi-story, multi-bay monumental structure symbolizes the importance of the rail terminal as an entrance gateway to Richmond; example of the influence of the French Ecole des Beaux Arts on American building	Determined NHL; Listed under Criteria A and C	
91	127-6271	Seaboard Air Line Railroad Corridor	City of Richmond	1900	Historic railroad corridor that represents the origins and growth of the railroad industry in the Richmond to Petersburg corridor; reflects the post-Civil War trend of merging smaller operations to provide better service while being more economical.	Eligible under Criterion A	




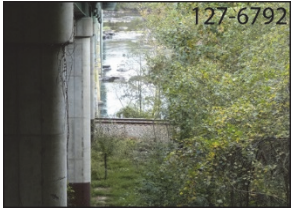
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Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
92	127-0019	*Masons' Hall, 1805 Franklin Street	City of Richmond	1785	Mason's Hall, a two-story, three-bay frame structure on a brick English basement, is the oldest building in the United States erected for Masonic purposes that has continually been used as a Masonic Hall since its construction.	Listed under Criteria A and C	
93	127-0344-0123	Railroad Y.M.C.A., 1552 East Main Street	City of Richmond	1907	The resource is a three-story, three-bay, rectangular, French Renaissance Revival-styled commercial building. It is in good condition and was originally designed by Wilson, Harris and Richards to provide recreational space for railroad workers and their families in the area.	Eligible under Criteria A and C; Contributing to Shockoe Valley and Tobacco Row HD	
94	127-0219	Shockoe Slip Historic District and Expansions	City of Richmond	1780	Circa late-nineteenth and early-twentieth century, erected as wholesale food or tobacco warehouses, with some serving light industry; buildings generally are modified Italianate in style.	Listed under Criteria A and C	
95	44HE1094	Warehouse	City of Richmond	19th century	Archaeological site of unknown date. Recorded based on map projections. Potential for intact remains below pavement is high. Railroad elevation structure is located in the parking lot. If the proposed rail is located on the structure, there will be no subsurface disturbances.	Potentially Eligible under Criterion D (Assuming eligible for undertaking)	



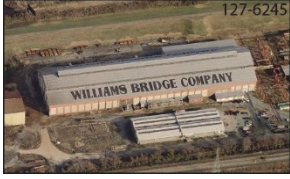

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Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
96	127-6793	Chesapeake & Ohio (C&O) Railroad Segment	City of Richmond	pre-1851	The C&O Railroad that is primarily made up of two parallel steel tracks that is notable for its role in Richmond's transportation history.	Eligible under Criterion A	 127-6793
97	127-0171	James River and Kanawha Canal Historic District	City of Richmond	1795	Circa 1785, canal improved navigation on the James River from Richmond to Botetourt County a distance of approximately 200 miles; District comprises of the canal and canal towpath.	Listed under Criteria A and C	 127-0171
98	127-5809	Bridge #1857, North 14th Street; Mayo Bridge North	City of Richmond	1911	The Mayo Bridge is a closed spandrel reinforced concrete arch bridge. consists of two segments (127-5808, south segment, and 127-5809, north segment) extending between the north and south banks of the James River and separated in the middle by Mayo Island.	Potentially Eligible under Criteria A and C (Assuming eligible for undertaking)	 127-5809
99	127-6792	Southern Railway	City of Richmond	ca. 1850	A railroad corridor that dates to the mid-nineteenth century and was key in Richmond's development for over a century.	Eligible under Criterion A	 127-6792





► Continued – see end of table for notes.

Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
100	127-0457	Manchester Warehouse Historic District	City of Richmond	1880-1960	The district comprises 42 blocks of industrial development associated with the growth and development of the community of Manchester, an area south of the James River that was once a separate town but later incorporated within the City of Richmond.	Listed under Criteria A and C	 127-0457
101	127-6193	J.P. Taylor Leaf Tobacco, Southern Stove Works, 516 Dinwiddie Ave	City of Richmond	1920	This resource mirrors other early-20th century factories in the area: all brick construction, with regularly spaced and relatively large windows, and sections of light monitor on the pitched roof apex for allowing natural light for the workers. It was used as a stove factory and then for tobacco processing.	Listed under Criteria A and C	 127-6193
102	127-6245	Williams Bridge Company, Emergency Fleet Corporation Factory, 700 East 4th Street	City of Richmond	1919	Built in 1919 to assist with World War I war efforts; also used by the U.S. government during World War II; eligible boundary contains main factory and apartment structures used to house workers during both world wars.	Eligible under Criteria A, C, and D	 127-6245
103	127-6248	Pure Oil Company, 1314 Commerce Street, Transmontaigne	City of Richmond	1936	This property has been used to refine, store, ship, and process oil extracts for almost 80 years; founded in 1928 as Gulf Refinery Company; associated with the history of oil production and transport in Richmond.	Eligible under Criteria A and C	 127-6248


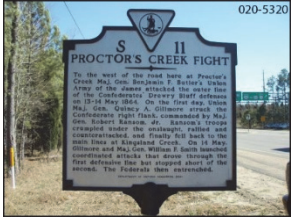


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Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
104	127-6213	Davee Gardens Historic District	City of Richmond	1947	This district is a planned, symmetrical suburb of Richmond, established in 1947. Homes in the neighborhood retain a high degree of historic integrity, and the street plan is emblematic of post-World War II design.	Eligible under Criteria A and C	
105	127-5818	*Philip Morris Operations Complex, 3601 Commerce Road	City of Richmond	1959–1974	This is a mid-twentieth-century, light-industrial complex that serves as headquarters for the company's tobacco production. They are unique industrial-related building constructed in the post-modern Neoexpressionist and Brutalist styles.	Eligible under Criteria A and C and Criteria Consideration G	
106	020-5474	DuPont Spruance	Chesterfield County	1929	The first of several buildings on the DuPont Spruance Plant was constructed under the ownership DuPont Rayon Co. This large factory has played a significant role in the development of textiles and plastics in the United States.	Eligible under Criteria A and C	
107	043-0307	Battle of Chaffin's Farm (New Market Heights Battlefield), New Market Road	Chesterfield County, Henrico County, City of Richmond	1862	The Battle of New Market Heights is nationally significant because of the all-important role played by Black soldiers in this fight and the recognition of their gallantry by the United States government through the award of 14 Medals of Honor to participants.	Eligible under Criterion A	




► Continued – see end of table for notes.

Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
108	020-0063	Falling Creek Ironworks Archaeological Site	Chesterfield County	1619	The Falling Creek Ironwork archaeological site was originally recorded as the location of the Virginia Company Ironworks. Subsequent investigation suggests that it could also be Cary's Ironworks, destroyed in 1781 during the American Revolution.	Listed under Criterion D	
109	020-5320	Proctor's Creek Battlefield	Chesterfield County, Colonial Heights	1864	Currently the battlefield consists of monuments, interpretive markers (state and freeman markers/park service interpretation at Fort Darling unit/county interpretation at Fort Stephens), a cemetery, historic road beds, period structures (Wooldridge, Willis, Halfway houses), and trenches/field fortifications.	Eligible/Potentially Eligible under Criterion A	
110	020-0147	Drewry's Bluff Battlefield (Fort Darling, Fort Drewry), Fort Darling Road	Chesterfield County, Henrico County	1862	Drewry's Bluff encompasses 42.4 acres of land. The CCC camp based at Fort Harrison rehabilitated the site in 1935, clearing brush and trees and stabilizing the earthworks.	Eligible under Criterion A	
111	123-5025	Assault on Petersburg (Petersburg Battlefield II), Bermuda Hundred Road (Alt Route 697)	Charles City County, Chesterfield County, City of Colonial Heights, City of Hopewell, City of Petersburg, Prince George County	1865	This resource includes a Civil War battlefield that represents part of the Richmond Petersburg campaign in and around Petersburg. Today, the battlefield consists of earthworks, roadways, and other features as well as interpretive materials.	Eligible under Criterion A	





► Continued – see end of table for notes.

Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
112	020-5336	The Bellwood-Richmond Quartermaster Depot Historic District, US Department of Defense Supply Center Historic District	Chesterfield County	post-1942	The district is a group of residential, industrial, and military buildings dating from the construction Sheffield/Bellwood Manor (020-0007), circa 1804, to the development of the Korean Conflict era buildings in 1952.	Eligible under Criteria A, B, C, D	
113	020-0007	Bellwood, Sheffields, Auburn Chase, Building 42, Defense Supply Center Richmond, 8000 Jefferson Davis Hwy	Chesterfield County	1804	This resource is significant as a representative of an early-nineteenth century antebellum plantation that has evolved into a modern, twentieth-century farm and dairying operation. The main house is an excellent example of vernacular interpretation of the Early Classical Revival style in the piedmont area constructed in an I-form. Numerous archaeological resources are located on the parcel.	Listed under Criteria A, C, and D	
114	44CF0680 / 020-0022	Fort Darling/Battlefield, Earthworks, Fort/Centralia Earthworks	Chesterfield County	1861-1865	The earthworks were developed by Confederate troops as part of the Outer Line of defenses for Drewry's Bluff. Although some segments of the earthworks have been destroyed, the extant areas remain in excellent condition and the remaining elements of the artillery battery, trenches, and gun emplacements are representative of earthworks developed in this area during the Civil War.	Eligible under Criteria A, C, and D	



► Continued – see end of table for notes.

Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
115	020-5351	Richmond & Petersburg Electric Railway	Chesterfield County	1902	This resource contains the alignment of the regional trolley system. Creation of this line was the direct impetus for large-scale modifications to settlement patterns in central Virginia.	Eligible under Criterion A	
116	020-0013	House, 3619 Thurston Road	Chesterfield County	1913	This resource is a 1.5-story Colonial Revival dwelling with a gambrel roof and flared eaves. It retains a high degree of architectural integrity.	Eligible under Criterion C	
117	127-6251	Atlantic Coast Line Railroad Corridor, Richmond and Petersburg Railroad	City of Richmond, Chesterfield County	post 1833	Historic railroad corridor that represents the origins and growth of the railroad industry in the Richmond to Petersburg corridor; reflects the post-Civil War trend of merging smaller operations to provide better service while being more economical.	Eligible under Criterion A	
118	020-5378	VEPCo Power Transmission Line	Chesterfield County	ca. 1910	The VEPCo Line was built The line was built sometime between 1910 and 1930, likely between 1925 and 1927, providing high-voltage electric power service to the people in the area. It is approximately one mile long, and it is the only remaining portion of the line that once extended from Richmond to Petersburg.	Eligible under Criteria A and C	

► Continued – see end of table for notes.

Table D1.1-1: List of Historic Properties in APE of Preferred Alternative

North-South Order	DHR ID	Name/Description	City/County	Date/Time Period	Description	NRHP Eligibility	Image
119	020-0140	Circle Oaks/4510 Centralia Road	Chesterfield County	1840	This resource is a two-story, wood frame single-family dwelling featuring a two-story, wrap around veranda. Property includes a small tenant house (perhaps servant's quarters) and a kitchen. Circle Oaks is the oldest and largest building in the community.	Eligible under Criterion C	
120	020-0552	Centralia Post Office	Chesterfield County	1905	The one-story building was the center of the community of Centralia. It was constructed to face east onto the rail tracks to accommodate rail travelers through this area during the economic boom of the pre-World War I days.	Eligible under Criterion A	

Note: Resources that have been added to the APE since the publication of the Draft EIS are noted by an asterisk (*) before their "Name/Description."

Table D1.1-2: List of Resources Removed from the APE since the Draft EIS

DHR ID	Resource Name / Description
500-0001-0013	RF&P Bridge over Holmes Run in Cameron Run Park
029-5741	Hannah P. Clark House/Enyedi House, 10605 Furnace Road
287-0010	Marine Corps Base Quantico (Current), Quantico Marine Corps Base Historic District
287-5147	Town of Quantico (Historic/Current), Town of Quantico Historic District (Current)
089-0019	Richland/Richlands, 945 Widwater Road
089-0045	RF&P Bridge over Potomac Creek at Leland Road
089-0080	RF&P Bridge over Naomi Road
089-0016/ 44ST0084	Ferry Farm
089-0014	Sherwood Forest (Historic)
016-5129	Woodford Historic District
016-0224	Glenwood House, 11102 Woodford Road
042-0470	House, 10570 Doswell Rd
042-0469	Tri-County Bank, Doswell branch (part of Squahspenny Antiques), 10561 Doswell Rd
500-0001-0002	RF&P Bridge over Little River
042-0836	Earthworks, Little River
042-0557	Dry Bridge, 10411 Old Bridge Road
042-0392	Montevideo
166-5073-0010	House, Dabney Funeral Home, 600 B Street
042-5048	Elmont Historic District
043-0693	Mill Road Historic District
043-5646	House, 11501 Old Washington Highway
043-5657	Darling Smokestack, Old Washington Highway
043-5636	Integrated Power Sources of VA, 2260 Dabney Road
127-6569	Central National Bank, 3501 W Broad Street
127-6514	Kent Road Village, 905 Kent Road
127-0742	West of Boulevard Historic District
127-6756	Carillon Neighborhood Historic District

► Continued.

Table D1.1-2: List of Resources Removed from the APE since the Draft EIS

DHR ID	Resource Name / Description
127-6629	Cedarhurst Neighborhood Historic District
127-6980	House, 351 W. 49th Street
127-6757	Woodstock Historic District
127-7036	Rolando Historic District
127-8036-0001	Broad Run House, 2011 S. Kinsley Avenue
127-6840	Warehouse, 2728 Hermitage Road
127-6165	Cookie Factory Lofts, 900 Terminal Place
127-0226	Science Museum of Virginia, 2500 Broad Street, West
127-6570	West Broad Street Industrial and Commercial Historic District
127-0343	Chestnut Hill/ Plateau Historic District
44HE1092	Warehouse
127-5808	Bridge #1857, South 14th Street; Mayo Bridge South
127-0197	Philip Morris Leaf Storage Warehouse, 1717-1721 East Cary Street
44HE1095	Storage facility
127-0282	Henrico County Courthouse, 2127 Main Street East
127-0192	St. John's Church Historic District
127-0192-0322	Libby Hill Park and Park House, 2801 East Franklin Street
127-0854	Bridge #1850, E Main Street, spanning Southern Railway
127-0119	John Woodward House, 3017 Williamsburg Avenue
127-6693	Armitage Manufacturing Company, 3200 Williamsburg Avenue (Function/Location)
127-6255	Fulton Gas Works, Williamsburg Avenue
127-0257	Bridge #8067
043-5313	James River Steam Brewery Cellars, 4920 Old Main Street
043-0439	Aviation General Supply Depot, 508 Bickerstaff Road
043-5071	Darbytown & New Market Roads Battlefield, Route 5
020-0022/ 44CF0680	Centralia Earthworks (repeated in Draft EIS as both above- and below-ground resources; one removed in Final EIS)

D1.2 SECTION 106 EFFECT DETERMINATIONS

FRA has completed an evaluation of effect of the Preferred Alternative for the Project on historic properties in accordance with Section 106. DHR has concurred with these recommendations. Effects are defined as adverse effect (the Project would diminish the characteristics that render a property eligible for the NRHP); no adverse effect (the Project may alter an aspect of the resource's integrity but the character-defining features that rendered it eligible for the NRHP would remain intact); or no effect (the Project does not have the potential to alter or diminish aspects of the historic property that render it eligible for the NRHP).

The Project will have an adverse effect on 21 historic properties, as shown in Table D1.2-1. It will have no adverse effect on 69 historic properties and no effect on 30 properties. Details on these effect determinations are discussed in the sections below the table, by resource type:

- Archaeological sites
- Architectural sites, which includes above ground resources including buildings, districts, structures, and objects
- Battlefields

Table D1.2-1: Summary of Effect Determinations on Historic Properties, Preferred Alternative

Type of Historic Property	Effect Determination (Number of Resources)		
	Adverse	No Adverse	No Effect
Archaeological Resources	8	6	0
Architectural Resources	13	54	30
Battlefields	0	10	0
Total for the Preferred Alternative:	21	69¹	30

Notes: 1. Fredericksburg & Spotsylvania Co. Battlefields National Military Park & Cemetery, Lee Drive (111-0147) is both an above and below ground resource, and it is counted in the table twice in the "No Adverse Effect" column, as both an Archaeological Resource and a Historic Resource. Therefore, while the numbers in the three historic property categories under "No Adverse Effect" add to 70, the total for the Preferred Alternative is 69 individual resources.

D1.2.1 Archaeological Resources

FRA's determinations of effect for archaeological resources in Virginia for the Preferred Alternative of the Project are summarized in Table D1.2-2 and detailed in Table D1.2-3. DHR has concurred on these determinations in letters dated June 28, 2018, July 18, 2018, and January 4, 2019. Data recovery excavations will be completed on any segment of these sites that will be impacted by the Project. Details on the data recovery are included as stipulations in the Draft Section 106 Memorandum of Agreement (MOA) that is being developed as part of the environmental process (see Appendix K of the Final EIS).

Table D1.2-2: Summary of Effect Determinations on Archaeological Sites

Alternative Area	Alternative	Effect Determination (Number of Resources)		
		Adverse	No Adverse	No Effect
Area 2: Northern Virginia (Long Bridge Approach to Dahlgren Spur)	2A	1	0	0
<i>Range of impacts for all Draft EIS Alternatives in this Alternative Area</i>		0	0	0
Area 3: Fredericksburg (Dahlgren Spur to Crossroads)	3B	4	2	0
<i>Range of impacts for all Draft EIS Alternatives in this Alternative Area</i>		0-1	0-1	0-3
Area 6: Richmond (I-295 to Centralia)	6F	3	3	0
<i>Range of impacts for all Draft EIS Alternatives in this Alternative Area</i>		0-3	4-7	2-4
Total¹ for the Preferred Alternative:		8	5	0

Notes: 1. Fredericksburg & Spotsylvania Co. Battlefields National Military Park & Cemetery, Lee Drive (111-0147) is both an above and below ground resource and is included in the above totals as “No Adverse Effect.”

There are no archaeological sites within the APE in Alternative Areas 1, 4, and 5, so they are not shown in the table.

**Table D1.2-3: Details of Effect Determinations on Archaeological Sites
(Listed North to South)**

DHR ID	Name/Description	City/County	Date/Time Period	NRHP Eligibility	DHR Effect Determination
44ST1223	Civil War Campsite	Stafford County	1862-1863	Potentially Eligible under Criterion D (Assuming eligible for undertaking)	Adverse
111-0147	Fredericksburg & Spotsylvania Co. Battlefields National Military Park & Cemetery, Lee Drive	City of Fredericksburg	1862	Listed under Criteria A and D	No Adverse
44SP0187	Bridge/Marye’s Mill	City of Fredericksburg	19th century	Potentially Eligible under Criteria A and D (Assuming eligible for undertaking)	Adverse
44SP0688	Block 49/Train Station	City of Fredericksburg	Late Archaic; 19th/20th c	Potentially Eligible under Criterion D (Assuming eligible for undertaking)	Adverse

► Continued.

**Table D1.2-3: Details of Effect Determinations on Archaeological Sites
(Listed North to South)**

DHR ID	Name/Description	City/County	Date/Time Period	NRHP Eligibility	DHR Effect Determination
44SP0687	Block 48/Train Station	City of Fredericksburg	Late Archaic; 19th/20th c	Potentially Eligible under Criterion D (Assuming eligible for undertaking)	Adverse
111-0145	Fredericksburg Gun Manufactory	City of Fredericksburg	ca. 1775	Listed under Criteria A and D	No Adverse
44SP0468	Earthwork/ Jackson's Earthwork	Spotsylvania County	1861	Potentially Eligible under Criteria A, C and D (Assuming eligible for undertaking)	Adverse
44HE1203	Grave Yard for Free People of Color and Slaves	City of Richmond	1816	Potentially Eligible under Criteria A and D (Assuming eligible for undertaking)	No Adverse
44HE1053	Lumpkins Jail/ Devil's Half Acre	City of Richmond	1830s through 1850s	Potentially Eligible under Criteria A and D (Assuming eligible for undertaking)	No Adverse
44HE1098	Main Street Station Parking Lot/Railroad	City of Richmond	19th century	Potentially Eligible under Criterion D (Assuming eligible for undertaking)	Adverse
44HE1097	Railroad, Warehouse	City of Richmond	19th century	Potentially Eligible under Criterion D (Assuming eligible for undertaking)	Adverse
44HE1094	Warehouse	City of Richmond	19th century	Potentially Eligible under Criterion D (Assuming eligible for undertaking)	Adverse
020-0063	Falling Creek Ironworks Archaeological Site	Chesterfield County	1619	Listed under Criterion D	No Adverse
44CF0680 / 020-0022	Fort Darling/Battlefield, Earthworks, Fort/ Centralia Earthworks	Chesterfield County	1861-1865	Eligible under Criteria A, C, and D	No Adverse

D1.2.2 Historical Resources

Ninety-seven (97) eligible or listed buildings, districts, structures, and objects are located within the APE of the Preferred Alternative for the Project: 96 above ground resources and 1 that has an above ground and below ground component. They range from single-family rural dwellings to significant historic districts along the rail corridor. Main Street Station (127-0172) in Richmond is also a National Historic Landmark (NHL); see the technical reports in Draft EIS Appendix R and Final EIS Appendix D2–D6 for additional details.

FRA’s determinations of effect for historic resources in the Project APE are listed in Table D1.2-4; details of all resources can be found in Table D1.2-5. DHR has concurred with these determinations in letters dated June 28, 2018, July 18, 2018, and January 4, 2019. Discussions of the coordination of these determinations with DHR and relevant consulting parties is provided in Appendix E of this Final EIS.

Table D1.2-4: Summary of Effect Determinations on Buildings, Districts, Structures, and Objects

Alternative Area	Alternative	Effect Determination (Number of Resources)		
		Adverse	No Adverse	No Effect
Corridor Wide ¹	All	1	0	0
Area 1: Arlington (Long Bridge Approach)	1B	0	2	0
<i>Range of impacts for all Draft EIS Alternatives in this Alternative Area</i>		1	2	0
Area 2: Northern Virginia (Long Bridge Approach to Dahlgren Spur)	2A	2	5	3
<i>Impacts reported in Draft EIS for this Alternative</i>		1	10	4
Area 3: Fredericksburg (Dahlgren Spur to Crossroads)	3B	2	8	4
<i>Range of impacts for all Draft EIS Alternatives in this Alternative Area</i>		1-4	0-11	0-15
Area 4: Central Virginia (Crossroads to Doswell)	4A	2	8	3
<i>Impacts reported in Draft EIS for this Alternative</i>		3	12	4
Area 5: Ashland (Doswell to I-295)	5A	3	2	11
<i>Range of impacts for all Draft EIS Alternatives in this Alternative Area</i>		0-7	0-10	0-16
Area 6: Richmond (I-295 to Centralia)	6F	3	29	9
<i>Range of impacts for all Draft EIS Alternatives in this Alternative Area</i>		7-16	42-60	2-11
Total² for the Preferred Alternative:		13	54	30

Notes: 1. The RF&P Railroad (500-0001) spans the majority of the Project corridor from the Potomac River on the north to Main Street Station in Richmond on the south.

2. Fredericksburg & Spotsylvania Co. Battlefields National Military Park & Cemetery, Lee Drive (111-0147) is both an above and below ground resource and is included in the above totals as “No Adverse Effect.”

Table D1.2-5: Details of Effect Determinations on Buildings, Districts, Structures, and Objects (Listed North to South)

DHR ID	Name/ Description	City/County	Date / Time Period	NRHP Eligibility	DHR Effect Determination
500-0001	Richmond, Fredericksburg, and Potomac Railroad	Arlington County, City of Alexandria, Fairfax County, Prince William County, Stafford County, City of Fredericksburg, Spotsylvania County, Caroline County, Hanover County, Henrico County, City of Richmond	1836-1943	Eligible under Criterion A	Adverse
029-0218	Mount Vernon Memorial Highway (portion of George Washington Memorial Parkway)	Fairfax County, Arlington County, City of Alexandria	ca. 1929	Listed under Criteria A and C	No Adverse
000-0045	Washington National Airport (Reagan National Airport)	Arlington County	1941	Listed under Criteria A and C	No Adverse
100-0160	George Washington Junior High School, 1005 Mt. Vernon Avenue	City of Alexandria	1935	Potentially Eligible under C (Assuming eligible for undertaking)	No Effect
100-0133	Parker-Gray Historic District/Uptown	City of Alexandria	ca. 1810	Listed under Criteria A and C	No Adverse
100-0137	Rosemont Historic District	City of Alexandria	ca. 1900	Listed under Criteria A and C	No Adverse
100-0124	Alexandria Union Station, 110 Callahan Drive	City of Alexandria	1905	Listed under Criteria A and C	No Adverse
100-0128	George Washington National Masonic Memorial	City of Alexandria	ca. 1922	Listed under Criterion C and Criteria Consideration F	No Effect
100-0277	Phoenix Mill, 3642 Wheeler Avenue	City of Alexandria	ca. 1776	Eligible under Criteria A and C	No Adverse
029-0953	Old Colchester Road, Potomac Path, King's Highway	Fairfax County	ca. 1664	Eligible under Criterion A	No Effect
029-0043	Colchester Arms, Fairfax Arms, 10712 Old Colchester Road	Fairfax County	ca. 1756	Listed under Criteria A and C	No Adverse
500-0001-0022	RF&P Bridge over Occoquan River	Prince William County	1915	Eligible under Criterion C; Contributing to RF&P HD	Adverse
076-0023	Rippon Lodge	Prince William County	1747	Listed under Criteria A and B	Adverse
111-0147	Fredericksburg & Spotsylvania Co. Battlefields National Military Park & Cemetery, Lee Drive	City of Fredericksburg	1862	Listed under Criteria A and D	No Adverse

► Continued.

Table D1.2-5: Details of Effect Determinations on Buildings, Districts, Structures, and Objects (Listed North to South)

DHR ID	Name/ Description	City/County	Date / Time Period	NRHP Eligibility	DHR Effect Determination
111-0132-0025	Rappahannock River Railroad Bridge and Associated Structures/ Platform	City of Fredericksburg	1927	Eligible under Criterion C; Contributing to Fredericksburg HD and RF&P HD	Adverse
111-0132	Fredericksburg Historic District	City of Fredericksburg	post 1727	Listed under Criterion C	Adverse
111-0067/ 111-0132-0505	Dr. Charles Mortimer House, House, 213 Caroline Street	City of Fredericksburg	1764-1801	Eligible under Criteria B and C; Contributing to Fredericksburg HD	No Effect
111-0132-0458	Robert Adams Residence, 528 Caroline Street	City of Fredericksburg	1891	Eligible under Criterion C; Contributing to Fredericksburg HD	No Effect
111-0132-0147	Shiloh Baptist Church New Site, 521 Princess Anne Street	City of Fredericksburg	1890-1968	Eligible under Criteria A and C and Criteria Consideration A; Contributing to Fredericksburg HD	No Effect
111-0132-0704	Fredericksburg Train Station, 200 Lafayette Boulevard	City of Fredericksburg	1910	Eligible under Criteria A and C; Contributing to Fredericksburg HD	No Adverse
111-0132-0126	The 1770 House, 227 Princess Anne Street	City of Fredericksburg	1770	Potentially Eligible under Criterion C (Assuming eligible for undertaking); Contributing to Fredericksburg HD	No Effect
111-0132-0020	Purina Tower	City of Fredericksburg	1916	Eligible under Criteria A and C; Contributing to Fredericksburg HD	No Adverse
111-0132-0522	House, 314-316 Frederick Street	City of Fredericksburg	1851	Eligible under Criteria A and B; Contributing to Fredericksburg HD	No Adverse
111-0009-0795	Pulliam's Service Station, 411 Lafayette Boulevard	City of Fredericksburg	ca. 1937	Eligible under Criteria A and C; Contributing to Fredericksburg HD	No Adverse
111-0009	Fredericksburg Historic District Extension	City of Fredericksburg	1794-1967	Eligible under Criteria A and C	No Adverse
088-5364	Virginia Central Railway Historic District	City of Fredericksburg, Spotsylvania County, and more	1853	Eligible under Criterion A	No Adverse
088-0039	La Vue, 3232 LaVue Lane (Prospect View)	Spotsylvania County	ca. 1848	Listed under Criterion C	No Adverse

► Continued.

Table D1.2-5: Details of Effect Determinations on Buildings, Districts, Structures, and Objects (Listed North to South)

DHR ID	Name/ Description	City/County	Date / Time Period	NRHP Eligibility	DHR Effect Determination
016-0092	Fairfield Plantation Office, Jackson Shrine, 12019 Stonewall Jackson Road	Caroline County	1828	Eligible under Criteria A and C	No Adverse
016-0208	House, 12096 Guinea Drive	Caroline County	ca. 1900	Potentially Eligible under Criterion C (Assuming eligible for undertaking)	No Effect
016-5165	Excelsior Industry of Caroline County MPD	Caroline County	ca. 1925-1960	Eligible under Criteria A and C	No Adverse
016-0223	First Woodford Post Office	Caroline County	1874	Eligible under Criteria A and C	No Adverse
016-0222	Woodford Freight & Passenger Depot, Woodford Road	Caroline County	ca. 1900	Eligible under Criteria A and C; Contributing to RF&P HD	No Adverse
016-0220	Carolina Mansion, 11146 Woodford Road	Caroline County	ca. 1900	Potentially Eligible under Criterion C (Assuming eligible for undertaking)	No Effect
016-5136	Milford Historic District	Caroline County	ca. 1880–1960	Eligible under Criteria A and C	No Adverse
016-0270	Milford State Bank, 15461 Antioch Road	Caroline County	ca. 1910	Potentially Eligible under Criterion C (Assuming eligible for undertaking)	No Adverse
016-0286	Coghill-Jeter Store, 22275 Penola Road; Penola, 16095 Polecat Lane	Caroline County	1880	Eligible under Criteria A and C	No Adverse
042-5448	Doswell Historic District	Hanover County	ca. 1880-1940	Eligible under Criteria A and C	Adverse
042-0093	Doswell Depot and Tower, 10577 Doswell Rd	Hanover County	ca. 1928	Eligible under Criteria A and C; Contributes to RF&P HD and Doswell HD	Adverse
042-5307	Taylorville Road Historic District	Hanover County	ca. 1900-1935	Eligible under Criteria A and C	No Adverse
042-0556	Hoopers, 11108 McConnell Lane	Hanover County	1810	Not evaluated; Not accessible (Assuming eligible for undertaking)	No Effect
166-5073	Berkleystown Historic District	Hanover County	ca. 1900-1965	Eligible under Criterion A	Adverse
166-0001	Ashland Historic District	Hanover County	1850-1950	Listed under Criteria A and C	No Adverse

► *Continued.*

Table D1.2-5: Details of Effect Determinations on Buildings, Districts, Structures, and Objects (Listed North to South)

DHR ID	Name/ Description	City/County	Date / Time Period	NRHP Eligibility	DHR Effect Determination
166-0001-0015	Business Office, Randolph-Macon, 310 N. Center Street	Hanover County	ca. 1895	Potentially Eligible under C (Assuming eligible for undertaking); Contributing to Ashland HD	No Effect
166-5072	Randolph-Macon College Historic District Expansion	Hanover County	ca. 1900-1960	Potentially Eligible under Criteria A and C (Assuming eligible for undertaking)	No Effect
166-0002	Randolph-Macon College Historic District	Hanover County	1872-1950	Listed under Criteria A and C	No Effect
166-0001-0008	Ashland Station Depot, 112 N. Railroad Avenue	Hanover County	1910	Potentially Eligible under A and C (Assuming eligible for undertaking); Contributing to Ashland HD	No Effect
166-5041	Priddy House, 107 Stebbins Street	Hanover County	ca. 1926	Potentially Eligible under Criterion C (Assuming eligible for undertaking); Contributing to Ashland HD	No Effect
166-0001-0055	Emily Gray House, 702 S. Center Street	Hanover County	ca. 1850	Potentially Eligible under Criterion C (Assuming eligible for undertaking); Contributing to Ashland HD	No Effect
166-0001-0060	Fleming Fox House, 708 S. Center Street	Hanover County	ca. 1894	Potentially Eligible under Criterion C (Assuming eligible for undertaking); Contributing to Ashland HD	No Effect
166-0036	MacMurdo House, 713 S. Center Street	Hanover County	ca. 1858	Potentially Eligible under Criterion C (Assuming eligible for undertaking); Contributing to Ashland HD	No Effect
166-0037	Hugo House/Lefebvre House, 904 S. Central Street	Hanover County	ca. 1886	Potentially Eligible under Criterion C (Assuming eligible for undertaking); Contributing to Ashland HD	No Effect

► *Continued.*

Table D1.2-5: Details of Effect Determinations on Buildings, Districts, Structures, and Objects (Listed North to South)

DHR ID	Name/ Description	City/County	Date / Time Period	NRHP Eligibility	DHR Effect Determination
166-0001-0077	House, 1005 S. Center Street	Hanover County	ca. 1890	Potentially Eligible under Criterion C (Assuming eligible for undertaking); Contributing to Ashland HD	No Effect
042-0113	Charles Gwathmey House, 11247 Gwathmey Church Road	Hanover County	1896	Eligible under Criterion C	No Adverse
043-0694	Hunton Treasures, 11701 Greenwood Road	Henrico County	1930	Eligible under Criterion C	No Effect
043-0690	Lewis-McLeod House, 2945 Mountain Road	Henrico County	ca. 1921	Potentially Eligible under Criterion C (Assuming eligible for undertaking)	No Effect
043-0292	Laurel Industrial School Historic District, Hungary Road	Henrico County	1892	Listed under Criteria A and C	Adverse
043-0292-0001	Main Building/Robert Stiles Building/Bluford Office Building, 2900 Hungary Road	Henrico County	1895	Eligible under Criteria A and C; Contributing to Laurel Industrial School HD	Adverse
127-6136	Scott's Addition Historic District	City of Richmond	post-1900	Listed under Criteria A and C	No Adverse
127-6188	Movieland Bowtie Cinema, 1331 North Boulevard	City of Richmond	1887	Listed under Criteria A and C	No Adverse
127-6730	Hermitage Road Warehouse Historic District	City of Richmond	1930-1958	Listed under Criteria A and C	No Effect
127-5978	Todd Lofts, 1128 Hermitage Road	City of Richmond	1892	Listed under Criterion A	No Adverse
127-6145	Southern Stove Works, 1215 Hermitage Road	City of Richmond	1905	Listed under Criteria A and C	No Adverse
127-0414	Governor's School, 1000 North Lombardy Street	City of Richmond	1938	Listed under Criteria A and C	No Adverse
127-0354	Virginia Union University Historic District, 1500 North Lombardy Street	City of Richmond	1899	Listed under Criteria A and C	No Effect
127-0822	Carver Residential Historic District	City of Richmond	1845-1920	Listed under Criteria A and C	No Effect
127-0428	George W. Carver Elementary School, 1110 West Leigh Streets	City of Richmond	1887	Eligible under Criterion C; Contributing to Carver Residential HD	No Effect

► *Continued.*

Table D1.2-5: Details of Effect Determinations on Buildings, Districts, Structures, and Objects (Listed North to South)

DHR ID	Name/ Description	City/County	Date / Time Period	NRHP Eligibility	DHR Effect Determination
127-6171	Richmond and Chesapeake Bay Railway Barn), Richmond-Ashland Railway Company Car Barn	City of Richmond	1907	Listed under Criteria A and C	No Effect
127-6883	Gilpin Court Apartment Complex, 203 Charity Street West/ 4 E. Hill Street/ 1403 St. James St./ 1100 N 2nd Street	City of Richmond	1942	Eligible under Criteria A and C	No Adverse
127-5679	Barton Heights Cemetery, 1600 Lamb Avenue	City of Richmond	1814	Listed under Criteria A and B and Criteria Consideration D	No Adverse
127-0353	Richmond Nursing Home, 210 Hospital Street	City of Richmond	1860	Listed under Criterion C	No Adverse
127-6166	Hebrew Cemetery, 320 Hospital Street	City of Richmond	1816	Listed under Criteria A and C	No Adverse
127-0344	Shockoe Valley & Tobacco Row Historic District	City of Richmond	post 1737	Listed under Criteria A and C	Adverse
127-6129	Winfree Cottage, East Main Street	City of Richmond	ca. 1866	Eligible under Criterion C and Criteria Consideration B	No Adverse
127-0172	Main Street Station and Trainshed, New Union Station, Seaboard Airline & Chesapeake & Ohio Railroad Depot	City of Richmond	1901	Determined NHL; Listed under Criteria A and C	Adverse
127-6271	Seaboard Air Line Railroad Corridor	City of Richmond	1900	Eligible under Criterion A	Adverse
127-0019	Masons' Hall, 1805 Franklin Street	City of Richmond	1785	Listed under Criteria A and C	No Adverse
127-0344-0123	Railroad Y.M.C.A., 1552 East Main Street	City of Richmond	1907	Eligible under Criteria A and C; Contributing to Shockoe Valley and Tobacco Row HD	No Adverse
127-0219	Shockoe Slip Historic District and Expansions	City of Richmond	1780	Listed under Criteria A and C	No Adverse
127-6793	Chesapeake & Ohio (C&O) Railroad Segment	City of Richmond	pre-1851	Eligible under Criterion A	No Adverse
127-0171	James River and Kanawha Canal Historic District	City of Richmond	1795	Listed under Criteria A and C	No Adverse
127-5809	Bridge #1857, North 14th Street; Mayo Bridge North	City of Richmond	1911	Potentially Eligible under Criteria A and C (Assuming eligible for undertaking)	No Adverse

► Continued.

Table D1.2-5: Details of Effect Determinations on Buildings, Districts, Structures, and Objects (Listed North to South)

DHR ID	Name/ Description	City/County	Date / Time Period	NRHP Eligibility	DHR Effect Determination
127-6792	Southern Railway	City of Richmond	ca. 1850	Eligible under Criterion A	No Adverse
127-0457	Manchester Warehouse Historic District	City of Richmond	1880-1960	Listed under Criteria A and C	No Adverse
127-6193	J.P. Taylor Leaf Tobacco, Southern Stove Works, 516 Dinwiddie Ave	City of Richmond	1920	Listed under Criteria A and C	No Adverse
127-6245	Williams Bridge Company, Emergency Fleet Corporation Factory, 700 East 4th Street	City of Richmond	1919	Eligible under Criteria A, C, and D	No Adverse
127-6248	Pure Oil Company, 1314 Commerce Street, Transmontaigne	City of Richmond	1936	Eligible under Criteria A and C	No Adverse
127-6213	Davee Gardens Historic District	City of Richmond	1947	Eligible under Criteria A and C	No Adverse
127-5818	Philip Morris Operations Complex, 3601 Commerce Road	City of Richmond	1959–1974	Eligible under Criteria A and C and Criteria Consideration G	No Adverse
020-5474	DuPont Spruance	Chesterfield County	1929	Eligible under Criteria A and C	No Effect
020-5336	The Bellwood-Richmond Quartermaster Depot Historic District, US Department of Defense Supply Center Historic District	Chesterfield County	post-1942	Eligible under Criteria A, B, C, D	No Adverse
020-0007	Bellwood, Sheffields, Auburn Chase, Building 42, Defense Supply Center Richmond, 8000 Jefferson Davis Hwy	Chesterfield County	1804	Listed under Criteria A, C, and D	No Adverse
020-5351	Richmond & Petersburg Electric Railway	Chesterfield County	1902	Eligible under Criterion A	No Adverse
020-0013	House, 3619 Thurston Road	Chesterfield County	1913	Eligible under Criterion C	No Effect
127-6251	Atlantic Coast Line Railroad Corridor, Richmond and Petersburg Railroad	City of Richmond, Chesterfield County	post 1833	Eligible under Criterion A	No Adverse
020-5378	VEPCo Power Transmission Line	Chesterfield County	ca. 1910	Eligible under Criteria A and C	No Effect
020-0140	Circle Oaks/ 4510 Centralia Road	Chesterfield County	1840	Eligible under Criterion C	No Adverse
020-0552	Centralia Post Office	Chesterfield County	1905	Eligible under Criterion A	No Adverse

D1.2.3 Battlefields

There are 10 battlefields located in the APE, all of which are associated with Civil War activities located in areas that were sites of numerous troop engagements during the war, notably the localities from Stafford County to the southern terminus of the Project. The resources were defined and mapped based on the American Battlefield Protection Program (ABPP)-defined Potential National Register (PotNR) boundaries, as determined in 2009. If PotNR boundaries were not available, DHR boundaries were used. In February 2016, DHR agreed to use these boundaries in the current analysis.

FRA’s determinations of effect for historic resources in Virginia are listed in Table D1.2-6; details on each battlefield are presented in Table D1.2-7. DHR concurred with these determinations in letters dated June 28, 2018, July 18, 2018, and January 4, 2019. Based on dialogues with DHR, the Project will have no adverse effect on all 10 battlefields within the APE.

Table D1.2-6: Summary of Effect Determinations on Battlefields

Alternative Area	Alternative	Effect (Number of Resources)		
		Adverse	No Adverse	No Effect
Area 3: Fredericksburg (Dahlgren Spur to Crossroads)	3B	0	4	0
<i>Range of impacts for all Draft EIS Alternatives in this Alternative Area</i>		0	0-3	0-3
Area 4: Central Virginia (Crossroads to Doswell)	4A	0	1	0
<i>Impacts reported in Draft EIS for this Alternative</i>		0	1	0
Area 6: Richmond (I-295 to Centralia)	6F	0	5	0
<i>Range of impacts for all Draft EIS Alternatives in this Alternative Area</i>		0	4-6	0-2
Total for the Preferred Alternative:		0	10	0

Notes: There are no battlefields within the APE in Alternative Areas 1, 2, and 5.

Table D1.2-7: Summary of Effect Determinations on Battlefields (Listed North to South)

DHR ID	Name/Description	City/County	Date / Time Period	NRHP Eligibility	DHR Effect Determination
111-5295	Battle of Fredericksburg I	City of Fredericksburg	1862	Eligible/ Potentially Eligible under Criterion A	No Adverse
111-5296	Battle of Fredericksburg II	City of Fredericksburg	1863	Eligible/ Potentially Eligible under Criterion A	No Adverse
088-5181	Salem Church Battlefield (Banks Ford Battlefield)	Spotsylvania County, City of Fredericksburg	1863	Eligible under Criterion A	No Adverse
088-0254	Slaughter Pen Farm, 11232 Tidewater Trail (Wayside Farm or Pierson Farm)	Spotsylvania County	ca. 1861	Eligible under Criterion A	No Adverse
042-0123	North Anna Battlefield	Hanover County	1864	Eligible under Criterion A	No Adverse

► Continued.

Table D1.2-7: Summary of Effect Determinations on Battlefields (Listed North to South)

DHR ID	Name/Description	City/County	Date / Time Period	NRHP Eligibility	DHR Effect Determination
043-5108	Yellow Tavern Battlefield	Henrico County	1864	Eligible/ Potentially Eligible under Criterion A	No Adverse
043-0307	Battle of Chaffin's Farm (New Market Heights Battlefield), New Market Road	Chesterfield County, Henrico County, City of Richmond	1862	Eligible under Criterion A	No Adverse
020-5320	Proctor's Creek Battlefield	Chesterfield County, Colonial Heights	1864	Eligible/ Potentially Eligible under Criterion A	No Adverse
020-0147	Drewry's Bluff Battlefield (Fort Darling, Fort Drewry), Fort Darling Road	Chesterfield County, Henrico County	1862	Eligible under Criterion A	No Adverse
123-5025	Assault on Petersburg (Petersburg Battlefield II), Bermuda Hundred Road (Alt Route 697)	Charles City County, Chesterfield County, City of Colonial Heights, City of Hopewell, City of Petersburg, Prince George County	1865	Eligible under Criterion A	No Adverse

D1.3 SUMMARY AND MITIGATION

In summary, FRA's determination is that 21 historic properties will be adversely affected by the Preferred Alternative. Eleven of these impacts will be direct, two indirect/cumulative, and eight both direct and indirect. Another 69 properties will have no adverse effect resulting from the Preferred Alternative and the remaining 30 historic properties in the APE will have no effect resulting from the Preferred Alternative.

Where FRA has determined that the Preferred Alternative will have an adverse effect on historic resources, and DHR has concurred with that determination, efforts have been undertaken to avoid, minimize, or mitigate the adverse effects. Efforts have been made by DRPT to identify a Preferred Alternative that avoids adverse effects to Section 106 resources identified in this section. Where avoidance is not possible, through the Section 106 consultation process, FRA, DRPT, DHR, ACHP, and the consulting parties have identified measures to minimize and mitigate for impacts.

The Section 106 Draft Memorandum of Agreement (MOA) has been developed based on feedback from consulting parties, property owners, and involved agencies and includes a roster of tasks to be completed on all adversely affected resources, such as public interpretation, additional research, National Register documentation, archaeological data recovery, and more, to mitigate any adverse effects caused by the undertaking. All mitigation measures are noted in the Section 106 Draft MOA, which is Appendix K of this Final EIS. Acquiring a signed MOA is the final step in the Section 106 process; a final, signed MOA will be part of the Record of Decision for the Project.