IMPROVEMENTS TO FOREST HILL AVENUE (STATE ROUTE 683) RICHMOND, VIRGINIA

State Project Number: U000-127-155 Federal Project Number: STP-5127(543) UPC: 19036

CATEGORICAL EXCLUSION

Documentation Prepared By: Stantec Consulting Services Inc.

Documentation Prepared For: City of Richmond Virginia Department of Transportation

December 2012

Documentation of FHWA Review

Project Name: <u>Route 683</u>; <u>Improvements to Forest Hill Avenue</u> State Project Number: <u>U000-127-155</u>

UPC: <u>19036</u>

Based on the preliminary environmental impact information compiled by VDOT, FHWA approved this project as a Categorical Exclusion on <u>10/11/2012</u>. Based on my review of the Categorical Exclusion documentation submitted by VDOT, I find this information acceptable and sufficient as supporting documentation to support the original Categorical Exclusion determination.

Most Fritt 12/26/2012

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for Approving FHWA Official, Date

IMPROVEMENTS TO FOREST HILL AVENUE (STATE ROUTE 683) RICHMOND, VIRGINIA

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** The project information listed below can be viewed online at http://www.richmondgov.com/PublicWorks/ForestHillImprovementProject.aspx

Project Schedule Costs and Funding Aerial Mapping Conceptual Design State Environmental Review Process Preliminary Environmental Inventory Traffic Study Noise Study Volume Data Preliminary Drainage Study Stakeholder Coordination

TO:	FHWA
FROM:	Nick Frolich
DATE:	12/21/12

CATEGORICAL EXCLUSION (CE)

Date CE level document approved by VA FHWA Division: 10/11/12 FHWA Contact: Mack Frost Route: Forest Hill Avenue (State Route 683) Route Type: Urban Project Type: Construction State Project Number: U000-127-155 Federal Project Number: STP-5127(543) UPC: 19036

From: Hathaway Road To: East Junction Powhite Parkway County/City: Richmond District / Residency: Richmond

Project in STIP: Yes⊠ Project in Long Range Plan: Yes ⊠ No □ N/A Project Outside of MPO Area □

N/A Project Outside of MPO Area

Project Description: The City of Richmond proposes to improve a 0.8-mile section of Forest Hill Avenue from just west of the Powhite Parkway to east of Hathaway Road. A project location map is included in the appendix. Forest Hill Avenue is an urban minor arterial (Richmond MPO, 2005) that connects with two major limited-access highways. Forest Hill Avenue's connectivity with Chippenham Parkway and Powhite Parkway make the roadway function as a major facility for commuter traffic. The posted speed limit on the existing roadway is 45 miles per hour (mph). This section of Forest Hill Avenue is an undivided four-lane facility predominantly flanked by residential development with some commercial use near the Hathaway Road intersection. The purpose of the project is to improve multi-modal safety and enhance livability along the roadway. The need for the project is based on high traffic volumes and a high number of accidents. Over a three year period from January 2006 through December 2008, 216 crashes occurred on this section of roadway; the majority of these were read-end collisions (98), followed by angle crashes (54), side-swipe same direction (20), and head-on collisions (16). Over half of these accidents were at the Powhite Parkway intersection, with rear-end collisions being the most frequent type of accident. Current traffic volumes (2009) indicate that the road carries an average annual daily traffic volume in excess of 32,000 vehicles, with volumes projected to increase in the future.

The proposed design includes four 11-foot lanes, two 5-foot bicycle lanes (one in each direction), 12-foot raised median, curb, two 4-foot grass strips, and 4-foot sidewalks on both shoulders. The sidewalk design includes wider 'passing sections' that extend into the grass strip every 200 feet. These passing sections allow pedestrians to pass each other while remaining on the sidewalk. The posted speed limit would be reduced from 45 to 35 mph. In addition to providing bicycle lanes and sidewalks, the proposed design includes access management strategies to improve safety on Forest Hill Avenue. A raised median would be constructed for the length of the project and left-turns would be eliminated at three existing full-movement intersections (Norcross Road, Heartwood Road, and Glyndon Lane). These intersections would be modified to right-in/right-out intersections. Figures 1A and 1B show the proposed intersection modifications. Construction of the raised median would also prohibit left-turns from 21 driveways. To make a left turn, traffic would be directed to a nearby full-movement intersection. Given that the entire project (including all U-turn locations) is 0.8-mile in length, additional driving distances associated with making a U-turn would be limited, as the proposed intersection modifications are within several hundred feet of the U-turn locations. The proposed improvements would lengthen the westbound off-ramp of the Powhite Parkway to help reduce accidents at this location. The proposed project would also modify the existing traffic signal at the intersection of Forest Hill and Hathaway Road to include

signal heads at the Melbourne Drive intersection. Funding is currently allocated for planning, design, and right-of-way acquisition (VDOT, July 2011).

To minimize the need for additional right-of-way, the project proposes 11-foot lanes and that the roadway gutter (normally concrete) would be paved and included as part of the bicycle lane. The need for a major utility easement would be eliminated by placing utilities in the center median. In addition to median and shoulder landscaping, aesthetic enhancement measures would also include the use of specially-designed pavers in several crosswalks.

CE Category 23 CFR 771.117: d(1)

Description of CE Category: 23 CFR 771.117 d(1)

1) Modernization of a highway by resurfacing, restoration, rehabilitation, reconstruction, adding shoulders, or adding auxiliary lanes (e.g., parking, weaving, turning, climbing).

USGS Map Attached Yes 🖂

Logical Termini and Independent Utility:

Yes N/A (For Non-highway construction only, explain in comments below)

Comments: In adherence with FHWA procedures for project development, the following discussion is provided to demonstrate that the proposed project: 1) connects logical termini and is of sufficient length to address environmental matters on a broad scope; 2) has independent utility or independent significance; and, 3) does not restrict the consideration of alternatives for other reasonable foreseeable transportation improvements [23 CFR 771.111(f)].

The proposed project's termini were set to include Forest Hill Avenue from Hathaway Road to Powhite Parkway. This section of Forest Hill Avenue is between two major limited-access highways and carries a large amount of regional commuter traffic through a section of roadway flanked by single-family residences. The large number of individual driveway connections, combined with the roadway's high amount of through traffic, has contributed to high accident rates. Modifying the roadway's access control between the two termini will address safety and capacity issues associated with the roadway's current access control. With respect to independent utility, this small section of highway has historically experienced very high accident rates, as detailed in the project description. The proposed project demonstrates independent utility as it would prove immediate safety benefits to travelers on the roadway alignment, the project does not limit the consideration of alternatives for other foreseeable transportation projects. The proposed improvements would not increase congestion or safety problems on the remainder of the roadway or create any other situation in which additional improvements would be required.

Typical Section: As shown in Figure 3, the proposed design includes four 11-foot lanes, two 5-foot bicycle lanes (one in each direction), 12-foot raised median, curb, two 4-foot grass strips, and 4-foot sidewalks on both shoulders. In addition to providing bicycle lanes and sidewalks, a raised median would be constructed for the length of the project. As shown in Figure 3, the proposed typical section is 84.5 feet wide and was designed to fit within the existing typical section. Established trees adjacent to the roadway would be preserved or replaced and the center median and grass strips would be landscaped.

Structures: This section of Forest Hill Avenue does not cross any streams. There are no existing structures and the proposed project would not require the construction of any drainage structures.

SOCIO-ECONOMIC		PRESENT		CTS
	YES	NO	YES	NO
Minority/Low Income Populations		\boxtimes		\boxtimes
Source: USBOC, 2010.				
Disproportionate Impacts to Minority/Low Income Populations: Yes 🗌 No 🔀				
Existing or Planned Public Recreational Facilities	\square			\square

Source: Field surveys identified the Willow Oaks Country Club near the eastern terminus of the project.		
Community Services		
Source: City of Richmond, 2012. GRTC Transit, 2012		
Consistent with Local Land Use: Yes 🖄 No 🗌		
Source: VDOT, 2011.		
Existing or Planned Ricycle/Pedestrian Facilities		
Source: City of Richmond 2010		
Comments: To determine the presence of minority populations within the project study area	a. 2010 US	S
Bureau of the Census (BOC) demographic databases were reviewed. The BOC database i	llustrates	minority
population variation within individual census tracts (i.e., block level data), which allowed for	a more pr	ecise
analysis of the project study area. No minority or low-income populations were identified al	ong the ro	adway
corridor. The proposed project will not cause any disproportionately high and adverse effect	ts on any	minority
or low-income populations.	-	-
No direct impacts to schools, police stations, fire stations, churches, or other community fac	ilities are	
associated with the proposed project. Huguenot High School, Thompson Middle School, ar	nd Southai	npton
Elementary School are located within the immediate vicinity of the project and bus routes for	r these sc	hools
utilize Forest Hill Avenue. Construction of the proposed project would have minor temporar	y effects c	n
school bus routes and emergency response times due to possible delays caused by constru	uction and	traffic
related to construction. Upon completion, the proposed project would aid in the reduction o	f emergen	су
response times within the project study area and vicinity. GRTC Transit Route Nos. 64 Exp	ress and 7	70 travel
this section of Forest Hill Avenue. There are a total of six signed bus stops along the project	t corridor	(three in
each direction); all bus stops would be maintained and replaced in-kind. No new bus stops	or modific	ations
to existing stops are included in the proposed improvements.		
No educroe impacts to families, paintherheads, or communities are anticipated from the pro-	nnand	
improvements. The preject would here fit the level community by improving sefety clange	poseu	lant
improvements. The project would benefit the local community by, improving safety along a	nign-accic	aina
invability along the readway. The proposed project's inclusion of bicycle and pedestrian facilities, a	litice is con	cing
with the USDOT's Policy Statement on Ricycle and Pedestrian Accommodation (i.e. "Comr	lata Straa	te"
nolicy) as well as recommendations contained in the Mayor's Pedestrian Ricycling and Tra	ils Plannin	a
Commission Report (May 2010) and the Richmond Area Municipal Planning Organization's	nlan2035	9 Iona-
Range Transportation Plan (July 2012) In addition to providing safe multimodal access to s	shonning a	and
other services in the Hathaway Road area, the project would also provide connectivity to the	e Powhite	Creek
Greenway near the project's eastern terminus.		
SECTION 4(f) and SECTION 6(f)	YES	NO
Use of 4(f) Property: No		
Acres of use: Zero		
Name of Resource: N/A		
Type of Resource:		
Individually Eligible Historic Property:		
Contributing Element to Historic District:		
Dublic Decreation Area:		
Fusic Nedealion Alea.	$\vdash \vdash \vdash$	
Dublic Wildlife Widterfour Defuse		
Public Wildlife/Waterfowl Refuge:		

Source: Cultural Resources Inc., 2009. VDHR, 2012.	
DeMinimis:	
Type of Use:	
Permanent:	
Temporary:	
*Constructive:	
*Temporary Non 4(f) Use:	
Section 4(f) Evaluation Attached:	
Conversion of 6(f) Property:	
Acres of Conversion:	
Source: USDOI, 2012.	
Comments: No comments.	

*Note that a Constructive Use and a Temporary Non 4(f) Use do not apply with a De Minimis finding.

CULTURAL RESOURCES	COMPLETE	N/A
Source: Cultural Resources Inc., 2009. VDHR, 2010.		
"No Effect" Pursuant to 1999 DHR Agreement		\boxtimes
Phase I Architecture Conducted	\square	
Phase II Architecture Conducted		\boxtimes
Phase I Archaeology Conducted		\boxtimes
Phase II Archaeology Conducted		\boxtimes
Section 106 Effect Determination: No Effect		
DHR Concurrence on Effect: Yes 🛛 Date: 2/2/10		
MOA Attached: N/A 🖂 Execution Date: / /		
Name of Historic Property:		
Comments: A Phase I Cultural Resources Study was prepared in Ju	ly 2009, which identif	ied a number of
houses eligible for listing on the National Register of Historic Places.	The City of Richmo	nd provided this
study to the State Historic Preservation Office (SHPO) and in corresp	pondence dated Feb	ruary 2, 2010,
SHPO indicated that the project would not affect any historic propert	ies and that no furthe	r identification

efforts are warranted.

NATURAL RESOURCES	PRESENT		IMPACTS	
	YES	NO	YES	NO
Surface Water:		\boxtimes	Li	near ft.
Source: Stantec, 2009. USGS, 1994. NRCS, 2012.				
Federal Threatened or Endangered Species:				
Terrestrial: None		\boxtimes		\square
Aquatic: None		\boxtimes		\boxtimes
Plants: None		\boxtimes		\boxtimes
Source: VDOT, 2005. Stantec, 2009. VDGIF, 2012. USFWS, 2012a.				
100 Year Floodplain:		\boxtimes		\boxtimes
Source: FEMA, 2012.				
Tidal Waters/Wetlands:		\square	Ad Ty	cres /pe
Wetlands:		\square	Ad Ty	cres /pe
Source: Stantec, 2009. USFWS, 2012b.				

Permits Required:	\square	
Source: USACE, 2012.		

Comments: Drainage for the proposed project will be designed in compliance with Virginia Stormwater Management Program (VSMP) regulations and any other regulations that may be applicable due to the project's proximity to the Chesapeake Bay Preservation resource management area (RMA) south of the project. Coordination will be maintained with permitting agencies during final design, permitting, right-of-way acquisition, and construction.

AGRICULTURAL / OPEN SPACE		PRESENT		CTS
	YES	NO	YES	NO
Open Space Easements:		\boxtimes		\boxtimes
Source: Cedar GIS, 2012.				
Agricultural/Forestal Districts:		\boxtimes		\boxtimes
Source: Cedar GIS, 2012.				
Comments: No comments.				

FARMLAND	YES	NO
NRCS Form CPA-106 Attached:		\boxtimes
Alternatives Analysis Required:		\boxtimes
If Form CPA-106 is not attached check all that are applicable:		
Land already in Urban use:	\boxtimes	
Entire project in area not zoned agriculture:	\boxtimes	
NRCS responded within 45 days:		
NRCS Determined no prime or unique farmland in the project area.		
Source: City of Richmond, 2012.		
Comments: No comments.		

INVASIVE SPECIES	PRESENT		ENT
	YES	NO	UNKNOWN
Invasive Species in the project area:			\boxtimes
Source: Stantec, 2009. VDCR, 2009.			

Comments: Although not observed in abundance, the roadway corridor likely has locations where invasive species such as Chinese privet (*Ligustrum sinense*), blackberry (*Rubus* sp.), trumpet creeper (*Lonicera sempervirens*), and Japanese honeysuckle (*Lonicera japonica*) are present. The proposed improvements include plantings along the roadway shoulders and in the raised median; these plantings will be maintained by the City of Richmond, which will prevent passive cultivation of invasive species.

AIR QUALITY		
Carbon Monoxide (CO)	Yes	No
This project is located in a CO 🖂 Attainment Area 🗌 Maintenance Area		
CO Hotspot Analysis Required? (if "Yes", please attach analysis)		\boxtimes
If "No", indicate which exemption it falls under:		
Exempt project under 40 CFR 93.126.		
Exempt project based on traffic volumes below thresholds in the current VDOT	Project Leve	el
Air Quality Studies Agreement with FHWA/EPA.	-	

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Ozone		
This project is located in an Ozone	Attainment Area Maintenance	Area
 Only projects located in ozone nonattainme Exempt from regional emissions requir Properly programmed in the 2031 CLR The project is not regionally significant regional transportation model. This project is regionally significant; how is not consistent with what was modeled 	Nonattainment Area Early Action C ent or maintenance areas must complete th rements under 40 CFR 93.126 or 40 CFR 9 RP and FY 12 - 15 TIP. and/or is not of a type that would normally wever the project was not modeled, or the ed in the currently conforming CLRP and T	bompact Area his box 03.127. be included in the scope of the project
Fine Particulate Matter (PM2.5)		Yes No
This project is located in a PM _{2.5}	☐ Nonattainment Area ☐ Maintenance ☆ Attainment Area (if checked, do not fill)	Area out box below)
 PM_{2.5} Hotspot Analysis Required? (If "Yes' Check all that apply; A. Exempt project under 40 CFR 93.12 B. Not a project of air quality concern u C. Properly programmed in the D. This project is regionally significant; consistent with what was modeled, in t If "B" is checked above, please indicate the Design Year 	 ", Please Attach Analysis) 26, Table 2. under 40 CFR 93.123(b)(1)(i) thru (v). CLRP and FY - TIP. however the project was not modeled, or i he currently conforming CLRP and TIP. a following for highway projects; Peak Diesel Truck % 	its scope is not
Mobile Source Air Toxics (MSAT)		
Image: Second control of the secon	ningful potential MSAT effects al MSAT effects (attach qualitative MSAT a tial MSAT effects (attach quantitative MSA or qualifies as a CE under 23 CFR 771.117 raffic volumes or vehicle mix.	analysis) T analysis) 7(c).
If a qualitative MSAT analysis is required, p	please indicate the following for highway pr	rojects;
<i>Source:</i> VDOT, 2009. VDOT, 2011.		
Comments: The project is in attainment fo and a maintenance area for Ozone. The pr requirements apply. It comes from the 203 2015 Transportation Improvement Program Plan. The project completion schedule, des conforming transportation plan and program	or Carbon Monoxide (CO) and Fine Particul roject is regionally significant and regional of 1 Long Range Transportation Plan and Fis In that has been found to conform to the Sta sign concept and scope are correctly reflec m.	ate Matter (PM2.5) conformity scal Year 2012- ate Implementation ted in the currently
The project does not include or directly affer volume, skew angle or level of service wou between the Federal Highway Administration streamlining the project-level air quality and "worst-case" parameters has been conduct projects, such as this one, for which the thr air quality and would not cause or contribut	ect any roadway whose design year average and exceed the threshold criteria specified in on and the Virginia Department of Transpo alysis process for carbon monoxide. Model ted for these thresholds and it has been de resholds would not be exceeded would not te to a new violation, or delay timely attain	ge daily traffic In the Agreement Intation for ling using the Intermined that Intermined that Intermined that Intermined that Intermined that

Ambient Air Quality Standards for carbon monoxide.

This project will not result in any meaningful changes in traffic volumes, vehicle mix, location of the existing facility, or any other factor that would cause an increase in emissions impacts relative to the nobuild alternative. As such, FHWA Has determined that this project will generate minimal air quality impacts for Clean Air Act criteria pollutants and has not been linked with any special MSAT concerns. Consequently this effort is exempt from analysis for MSATs.

Moreover, EPA regulations for vehicle engines and fuels will cause overall MSATs to decline significantly over the next 20 years. Even after accounting for a 64 percent increase in vehicle-miles-travelled (VMT), FHWA predicts MSATs will decline in the range of 57 percent to 87 percent from 2000 to 2020, based on regulations now in effect, even with a projected 64 percent increase in VMT. This will both reduce the project level of MSATs as well as the possibility of even minor MSAT emissions from this project.

NOISE	YES	NO
Type I Project:		\boxtimes
Source: VDOT, 2011.		
Noise Analysis Attached:		\boxtimes
Barriers Under Consideration:		\boxtimes
Source: VDOT 2011		

Comments: A noise analysis is not required for the proposed project, in accordance with criteria detailed in the VDOT Highway Traffic Noise Impact Analysis Guidance Manual (VDOT, 2011).

RIGHT OF WAY AND RELOCATIONS	YES	NO
Residential Relocations:		\boxtimes
Source: Parcel data and preliminary designs for proposed project.		
Commercial Relocations:		\boxtimes
Source: Parcel data and preliminary designs for proposed project.		
Non-profit Relocations:		\boxtimes
Source: Parcel data and preliminary designs for proposed project.		
Right of Way required:	\boxtimes	
If "Yes", acreage amount: 0.33-acre (See details below.)		
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Source: Parcel data and preliminary designs for proposed project.

Comments: To minimize the need for additional right-of-way, the project proposes 11-foot lanes and that the roadway gutter (normally concrete) would be paved and included as part of the bicycle lane. The need for a major utility easement would be eliminated by placing utilities in the center median. In addition to median and shoulder landscaping, aesthetic enhancement measures would also include the use of specially-designed pavers in several crosswalks and decorative stone or stone façade for proposed retaining walls.

The proposed project is being designed to fit within the existing right-of-way; however, additional right-ofway will likely be required at six locations (Hathaway Road, Melbourne Drive, Windsorview Drive, Woodberry Lane, Rettig Road, and Willow Oaks Country Club) where short right-turn lanes or U-turn tapers are necessary. Additional right-of-way ranging from 0 to 10 feet would be required for a 500-foot (0.09-mile) section on the north side of Forest Hill Avenue at Melbourne Road. This would be an additional 5,000 ft² (0.11 ac) maximum. Approximately 10 feet of additional right-of-way would be required for a 1,400-foot (0.27-mile) section on the south side of Forest Hill Avenue from Melbourne Drive to just east of Woodberry Lane. This area would be approximately 1,400 ft² (0.03 ac). Additional right-of-way ranging from 10 to 15 feet would be required for a 450-foot (0.09-mile) section on the north side of Forest Hill Avenue along the Willow Oaks Country Club property, where the Powhite Parkway westbound off-ramp would be lengthened. This area would be an additional 6,750 ft² (0.16 ac). There are three other locations outside these areas where U-turn tapers are proposed. Each U-turn taper would require approximately 450 ft² (0.01 ac). The U-turn locations include the northwest quadrant of Windsorview Drive, the northwest quadrant of Rettig Road, and the southeast quadrant of Rettig Road.

In total, up to 14,500 ft² (0.33-acre) of additional right-of-way would be required. Nearly half of this amount (6,750 ft2, 0.16-acre) would be along the Willow Oaks Country Club property line. These preliminary estimates may be reduced during the project's final design phase. Where practicable, low retaining walls would be utilized to eliminate the need for grading and minimize the amount of additional right-of-way required. The proposed project's hydraulic design may require additional right-of-way for the project's drainage design and stormwater detention. The City of Richmond is currently evaluating options for stormwater management.

It is anticipated that approximately 42 temporary construction easements will be required for the proposed project.

	PRESENT		RESENT IMPAC	
	YES	NO	YES	NO
Septic Systems, Wells, or Public Water Supplies:	\boxtimes			\boxtimes
Source: Subsurface surveys conducted for the proposed project.				
Hazardous Materials:		\boxtimes		\boxtimes
Source: Froehing & Robertson Inc., 2009.				

Comments: Due to the urban setting of the project study area, a number of utilities including water, sewer, telephone, and cable lines may be present within the area. The proposed project may require the relocation of existing utilities with the possibility of short-term interruptions to service during construction. The proposed project would have no long-term impact to utilities.

An environmental site assessment was completed on June 17, 2009 which indicates that there are 11 leaky underground storage tank (LUST) and two underground storage tank (UST) sites located within 500 feet of the roadway (250 feet off each side). The majority of these sites are associated with home heating oil USTs. All 11 LUST sites have been closed by the Virginia Department of Environmental Quality and do not require further investigation or remedial action. The report also notes what appear to be two concrete fillports in a concrete slab in the Stratford Hill Shopping Center at the Richmond Bag Company location. No land disturbing activities are anticipated at this or any other hazardous material location. The assessment noted that if petroleum contamination is detected during project-related activities, work should stop and the contamination be reported to the Virginia Department of Environmental Quality.

The report also notes that several pole-mounted transformers are located in the project area. Although not identified as containing PCBs, some of these transformers may contain PCBs. The report recommends that removal of any of these transformers be coordinated with Dominion Power.

CUMULATIVE AND INDIRECT IMPACTS	PRESENT		
	YES	NO	N/A
Present/ reasonably foreseeable future projects (highway and non-highway) in area:	\square		

Impact same resources as the proposed highway project (i.e. cumulative impacts):	\boxtimes		
Indirect (Secondary) impacts:		\boxtimes	

Source: VDOT, 2011. Richmond Regional MPO, 2008.

Comments: South of the proposed project, the City of Richmond plans to widen Jahnke Road from Blakemore Road to Forest Hill Avenue. The construction schedules of the Jahnke Road widening and Forest Hill Avenue improvements may overlap and as such, short-term, temporary travel time impacts may be experienced within the local roadway network. The City will develop construction schedules and traffic maintenance plans for the two projects to ensure these effects are minimal. The City will notify emergency services of construction initiation and, if necessary, coordinate with the Richmond Public School System regarding any changes to school bus routes.

The intensity of the incremental impacts of this project are considered small, when viewed in the context of impacts from other past, present, and reasonably foreseeable future actions and would not rise to a level that would cause significant cumulative impacts.

PUBLIC INVOLVEMENT	YES	NO	
Substantial Controversy on Environmental Grounds:		\square	
Source: Public involvement activities conducted for the proposed project.			
Public Hearing: (Design)	\square		
Other Public Involvement Activities:	\square		
If "Yes", type of Involvement: Stakeholder Meetings and Public Workshops (7)			
Comments: The project was developed in coordination with the public. From 2008 to 2011, a total of seven stakeholder meetings and public workshops were held for the proposed project. Stakeholder concerns included safety concerns along the roadway, encroachment on private property, and removal of existing trees. Along with roadway improvements, the group noted the need to convey a residential aesthetic to drivers as a way to improve safety. Based on comments received at these meetings, the project design was modified and presented at the last stakeholder meeting (October 26, 2011).			

Based on comments received at stakeholder meetings, the project design was modified and presented at the last stakeholder meeting (October 26, 2011). As a result of stakeholder coordination, the project's typical section was reduced by including tree wells for existing trees within the shoulder planting strips and paving/marking the gutter section as part of the bicycle lane. Stakeholders expressed the desire to reduce the sidewalk width to 3 feet; however, this width would be below minimum ADA requirements. In compliance with the ADA, the approved typical section includes 4-foot wide sidewalks. Conceptual plans for design elements such as sidewalks, crosswalks, tree protection, and median/shoulder plantings were also developed in coordination with stakeholders and the public.

Underground utilities remain a recommendation and strong desire by stakeholders. The City of Richmond investigated this action and determined that it would cost approximately \$3.2M but funding is currently unavailable. Stakeholders requested that the City continue efforts to secure additional funding and stated that they would contact local officials to promote the need for underground utilities.

A design public hearing will be held in early 2013 to provide citizens an additional opportunity to comment on the project.

COORDINATION

The following agencies were contacted during development of this study:

U.S. Army Corps of Engineers U.S. Fish and Wildlife Service Virginia Department of Air Pollution Control Virginia Department of Conservation and Recreation Virginia Council on the Environment Virginia Department of Game and Inland Fisheries Virginia Water Control Board Virginia Department of Waste Management Virginia Marine Resources Commission Virginia Department of Historic Resources, State Historic Preservation Office

ATTACHMENTS

Figures Project Location Map SHPO Concurrence

This project meets the criteria for a Categorical Exclusion pursuant to 40 CFR 1508.4 and 23 CFR 771.117 and will not result in significant impacts to the human or natural environment.

Project Location Map Figures SHPO Concurrence Natural Resources Field Survey Memo USFWS IPaC System Search Results List of References

* The project information listed below can be viewed online at http://www.richmondgov.com/PublicWorks/ForestHillImprovementProject.aspx

Project Schedule Costs and Funding Aerial Mapping Conceptual Design State Environmental Review Process Preliminary Environmental Inventory Traffic Study Noise Study Volume Data Preliminary Drainage Study Stakeholder Coordination







Figure 1B: Proposed Intersection Modifications



Figure 2: USGS Topographic Quadrangle



SOURCE: Microsoft Research Maps: US Geological Survey Topographical Quadrangle for Richmond, Virginia. 1994. http://msrmaps.com/default.aspx

Figure 3: Typical Section





COMMONWEALTH of VIRGINIA

L. Preston Bryant, Jr. Secretary of Natural Resources Department of Historic Resources

2801 Kensington Avenue, Richmond, Virginia 23221-0311

Kathleen S. Kilpatrick Director

Tel: (804) 367-2323 Fax: (804) 367-2391 TDD: (804) 367-2386 www.dhr.virginia.gov

MEMORANDUM

- DATE: 2 February 2010 DHR File # 2009-0686 TO: Mr. Kevin T. Newcomb City of Richmond Marc E. Holma, Architectural Historian (804) 367-2323, Ext. 114 FROM: Office of Review and Compliance **PROJECT:** Proposed Forest Hill Avenue Widening City of Richmond This project will have an effect on historic resources. Based on the information provided, the effect will not be adverse. This project will have an adverse effect on historic properties. Further consultation with DHR is needed under Section 106 of the NHPA. Additional information is needed before we will be able to determine the effect of the project on historic resources. Please see attached sheet. X No further identification efforts are warranted. No historic properties will be affected by the project. Should unidentified historic properties be discovered during implementation of the project, please notify DHR. We have previously reviewed this project. Attached is a copy of
- Other (Please see comments below)

COMMENTS:



Administrative Services 10 Courthouse Avenue Petersburg, VA 23803 Tel: (804) 862-6416 Fax: (804) 862-6196 Capital Region Office 2801 Kensington Ave. Richmond, VA 23221 Tel: (804) 367-2323 Fax: (804) 367-2391 Tidewater Region Office 14415 Old Courthouse Way, 2nd Floor Newport News, VA 23608 Tel: (757) 886-2807 Fax: (757) 886-2808 Roanoke Region Office 1030 Penmar Ave., SE Roanoke, VA 24013 Tel: (540) 857-7585 Fax: (540) 857-7588 Northern Region Office 5357 Main Street PO Box 519 Stephens City, VA 22655 Tel: (540) 868-7029 Fax: (540) 868-7033



MEMORANDUM

TO: File

FROM: Andrea L. Dvorak-Grantz, AICP

DATE: October 8, 2009

SUBJECT: Natural resources field survey for the Forest Hill Avenue Improvements, Richmond VA. State Project No. U000-127-155. Federal Project No. STP-5127(543). UPC No. 19036

The City of Richmond proposes to improve a 0.8-mile section of Forest Hill Avenue from just west of the Powhite Parkway to east of Hathaway Road. A majority of the proposed project would be constructed within the existing right-of-way, although the improvements would require small amounts of additional right-of-way along some property frontages.

Natural resource field surveys were conducted on October 8, 2009 for a 200-foot wide corridor along Forest Hill Avenue. The project corridor is in urban area with minimal natural resources. Most of the project corridor does not fit into any natural community classification and has been characterized as a maintained/disturbed terrestrial community. This community includes cleared areas, road shoulders, and landscaped/open commercial and residential areas. Many species are adapted to these disturbed and regularly maintained areas. The dominant plant species within these disturbed areas include fescue (*Festuca* spp.), ryegrass (*Lolium* spp.), clover (*Trifolium* spp.), blackberry (*Rubus* sp.) trumpet creeper (*Lonicera sempervirens*), Japanese honeysuckle (*Lonicera japonica*), broom sedge (*Andropogon virginicus*), pokeweed (*Phytolacca americana*), wild onion (*Allium cernuum*), Queen Anne's lace (*Daucus carota*), dandelion (*Taraxacum officinale*), Chinese privet (*Ligustrum sinense*).

Disturbed or developed land and roadway shoulders provide ample habitat to support viable populations of common wildlife species. Resident fauna is limited by continual habitat disturbance and consists mainly of small animals. Eastern gray squirrel (*Sciurus carolinensis*), American crow (*Corvus brachyrhynchos*), American robin (*Turdus migratorius*), and blue jay (*Cyanocitta cristata*) were observed within the project study area. Northern cardinal (*Cardinalis cardinalis*), tufted titmouse (*Baeolophus bicolor*), five-lined skink (*Eumeces fasciatus*), striped skunk (*Mephitis mephitis*), eastern rat snake (*Elaphe obsolete*), northern black racer (*Coluber constrictor constrictor*), eastern harvest mouse (*Reithrodontomys humulis*), white-footed mouse (*Peromyscus leucopus*), and Virginia opossum (*Didelphis virginiana*) would also likely be found along the roadway corridor.

The project does not cross any streams and there are no wetlands within the project corridor. The project corridor does not contain any habitat suitable for federally-protected sensitive joint-vetch (*Aeschynomene virginica*).

U.S. Fish and Wildlife Service



Natural Resources of Concern

This resource list is to be used for planning purposes only — it is not an official species list.

Endangered Species Act species list information for your project is available online and listed below for the following FWS Field Offices:

VIRGINIA ECOLOGICAL SERVICES FIELD OFFICE 6669 SHORT LANE GLOUCESTER, VA 23061 (804) 693-6694 http://www.fws.gov/northeast/virginiafield/

Project Name: Forest Hill Avenue Improvements U.S. Fish and Wildlife Service



Natural Resources of Concern

Project Location Map:



Project Counties:

Richmond (city), VA

Geographic coordinates (Open Geospatial Consortium Well-Known Text, NAD83):

MULTIPOLYGON (((-77.5202613 37.5378378, -77.5203257 37.5385184, -77.5195747 37.5384163, -77.5185447 37.5380931, -77.5169998 37.5374805, -77.5153046 37.536936, -77.5099616 37.5355918, -77.5086527 37.5351154, -77.5080948 37.5348091, -77.5075155 37.53469, -77.5086742 37.5343327, -77.5092321 37.5348091, -77.5139957 37.5360172, -77.5174933 37.5369871, -77.5193816 37.5377187, -77.5202613 37.5378378)))

Project Type:

Transportation

U.S. Fish and Wildlife Service



Natural Resources of Concern

Endangered Species Act Species List

There are no listed species found within the vicinity of your project.

FWS National Wildlife Refuges

There are no refuges found within the vicinity of your project.

FWS Migratory Birds

Not yet available through IPaC.

FWS Delineated Wetlands

Not yet available through IPaC.

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