Facility Planning Study - Phase I

Goldsboro Road

Environmental Site Assessment

June 2013

Montgomery County Department of Transportation

Planning

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I. Introduction

In December 2012, the Montgomery County Department of Transportation (MCDOT) initiated a Facility Planning Study to evaluate roadway widening and spot improvements for provision of bike lanes and a 5-foot wide sidewalk along a 1-mile segment of the existing 2-lane Goldsboro Road corridor between MacArthur Boulevard and River Road. Goldsboro Road is located west of Bethesda, near the Potomac River and the Maryland / Virginia State Line. The MCDOT has a long-standing investment in conserving natural, cultural, and socioeconomic resources. As part of the Goldsboro Road Facility Planning Study's efforts, this report has been prepared to assess existing conditions and identify any natural environmental, cultural and socioeconomic resources within the study area (**Figure 1**), as a basis for determining impacts from potential improvements. The study area is within the master plan for the *Bethesda-Chevy Chase Planning Area*. Within the study area, natural environmental, cultural, and socioeconomic resources were identified using a variety of available data including the master plan, interactive internet mapping resources supplied by Maryland-National Capital Park and Planning Commission (M-NCPPC) and supplementary field reviews. Federal, state and local agencies were contacted to assist in the development of this inventory, including the U.S. Fish and Wildlife Service (USFWS), the Maryland Department of the Environment (MDE), Maryland Department of Natural Resources (DNR), MCDOT, M-NCPPC, Montgomery County Historic Preservation Commission, and Maryland Historical Trust (MHT). See the Appendix for agency correspondence.

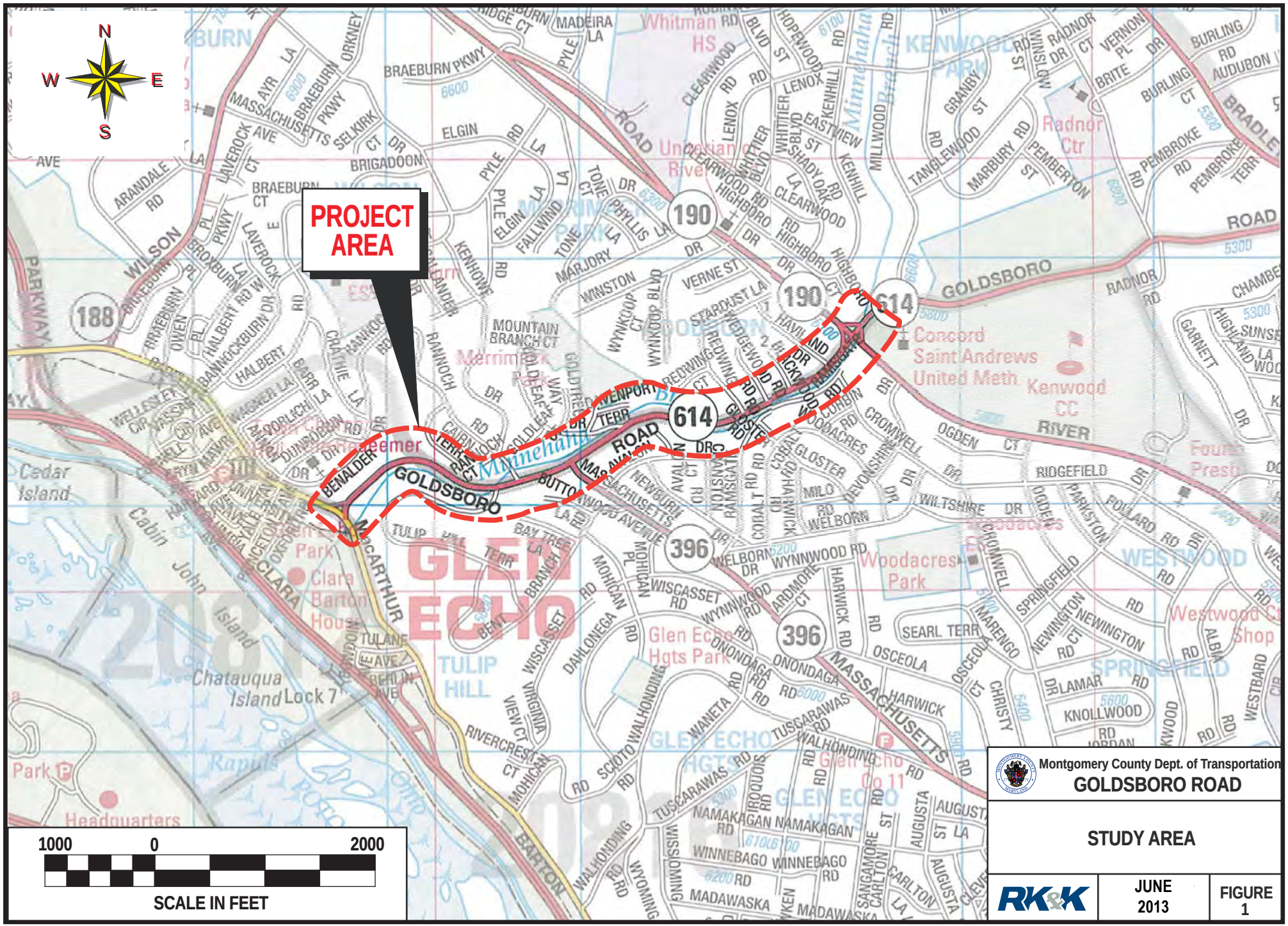
II. Natural Environment

The inventory of natural environmental features includes topography, geology and soils; vegetation; wetlands and other Waters of the US; floodplain boundaries; and wildlife, including rare, threatened and endangered species. The field inventory study area encompasses approximately 50 feet on each side of Goldsboro Road from MacArthur Boulevard to River Road and is depicted, along with the natural environmental features, on **Figure 2**, Environmental Features Plan.

Topography, Geology and Soils

Topography

The study area is characterized by steep and gently sloping hills that surround Minnehaha Branch - a perennial stream flowing alongside Goldsboro Road throughout the project limits. Elevations in the study area range from 125 feet to 260 feet according to the United States Geological Survey 7.5 Minute Washington West and Falls Church Topographic Quadrangles (USGS, 2011).


N
W
E
S
PROJECT AREA
GOLDSBORO ROAD
614
190
396
188
1000
0
2000
SCALE IN FEET
Montgomery County Dept. of Transportation
GOLDSBORO ROAD
STUDY AREA
RK&K
JUNE 2013
FIGURE 1

Dunrobbin Dr

MacArthur Blvd

The Episcopal Church of the Redeemer

Benalder Dr

8" SAN.

15" SAN.

T1 T2 T3

2UC

2UB

UNITED STATES OF AMERICA

7301 SHIRAZI ENTERPRISES MD, LLC

6727 SOUTHSIDE OIL, LLC

3" DWM CONDUIT (OUT)

10"X15" ELLIPTICAL CONDUIT

15" SAN.

T10 T11 T12 T13 T14 T15 W1

VIRGINIA J TR DAWSON

6789 VIRGINIA J TR DAWSON

2UC 16D

6A 16D

2C

6707 RUPA DAINER

6705 MENG DA SHU

6701 KAREN L CASSER

T16 T17

15" SAN. 21" SAN.

10" W

4" G (WGL)

2" G (WGL)

W2

Goldsboro Rd

T18 T19

Minnehaha Branch

T7 T8 T9

CHARLES L BLACKWELL

2UC 2UB 16D

Washington Aquaduct Control Station

T4 T5 T6 T93

2B 16D

6828 EMBASSY OF THE REPUBLIC OF

6832 WILLIAM M & SMITH

6836 KAREN M PARK

6840 BLACKWELL DEVELOPMENT CORPORATION

6844 ALAN B & S J MILLER

6848 REPUBLIC OF FRANCE

6824 LELAND M MIDDLETON

Tulip Hill Terr

16D 2UC

MATCHLINE - SEE SHEET 2

NAD83 NGVD29

Legend

- Study Area
- Right of Way/Property Line
- Water Line
- Sanitary Sewer Line
- Gas Line
- Verizon Underground
- 2' Contours
- T1 Significant Tree (DBH≥ 24")
- Waters of the U.S.
- Wetlands
- 100 Year Floodplain
- Soil Boundary
- Bus Stop

100' 0 100' 200'

SCALE: 1" = 100'

GOLDSBORO ROAD
Environmental Features Plan
Figure 2 - Sheet 1

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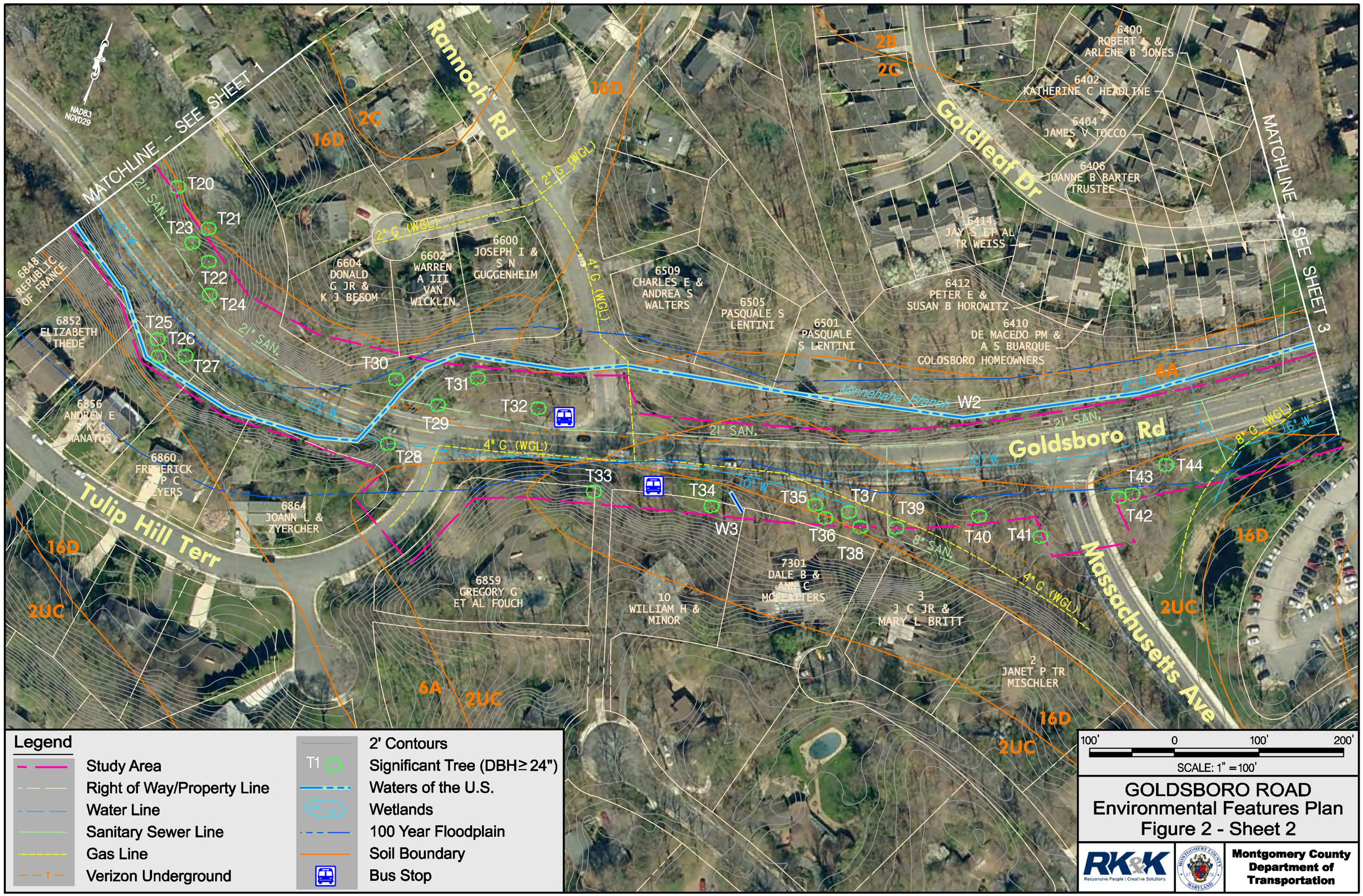
Montgomery County Maryland

Montgomery County Department of Transportation



GOLDSBORO ROAD
Environmental Features Plan
Figure 2 - Sheet 2

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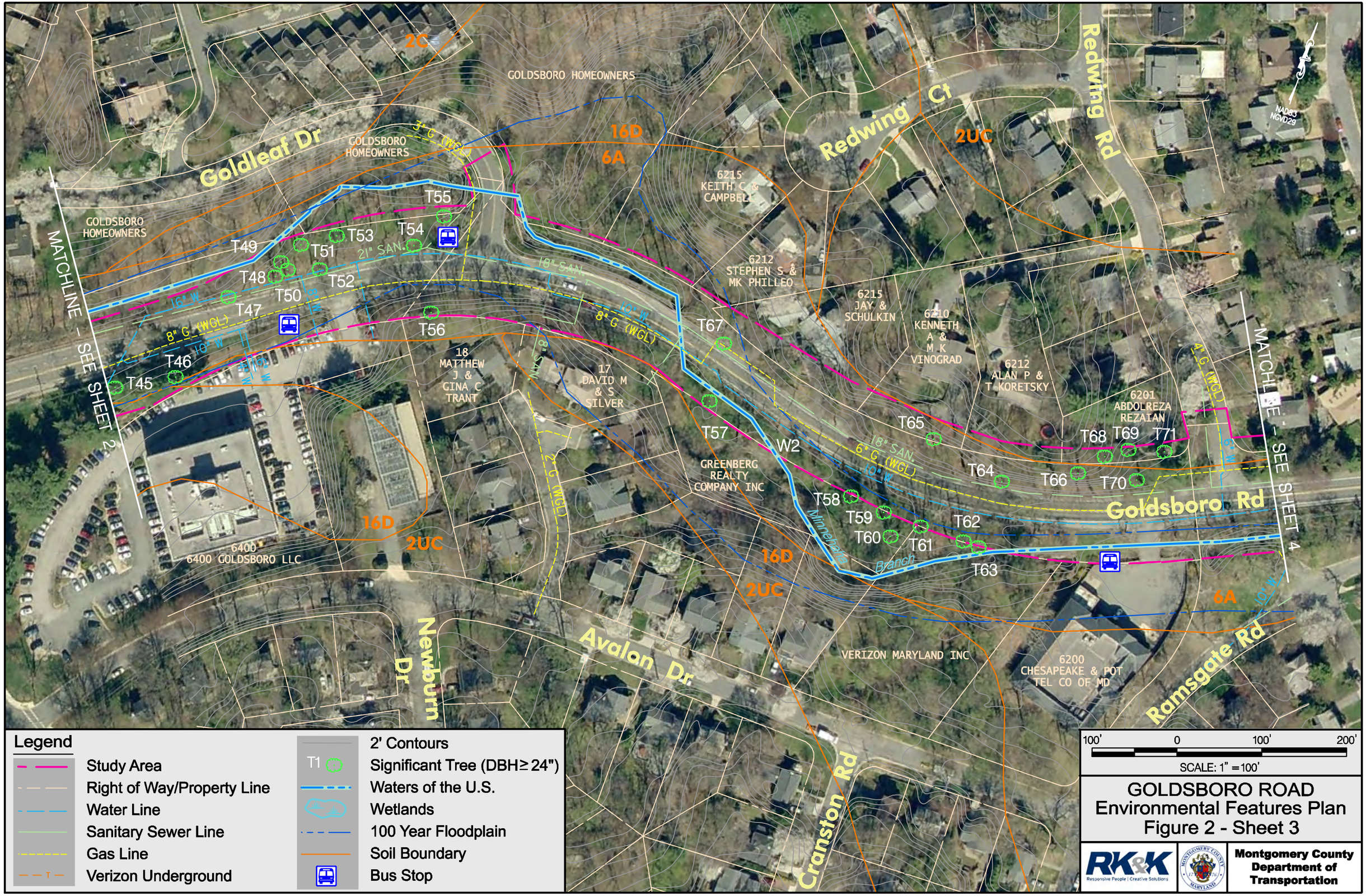

Legend

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GOLDSBORO ROAD
Environmental Features Plan
Figure 2 - Sheet 3

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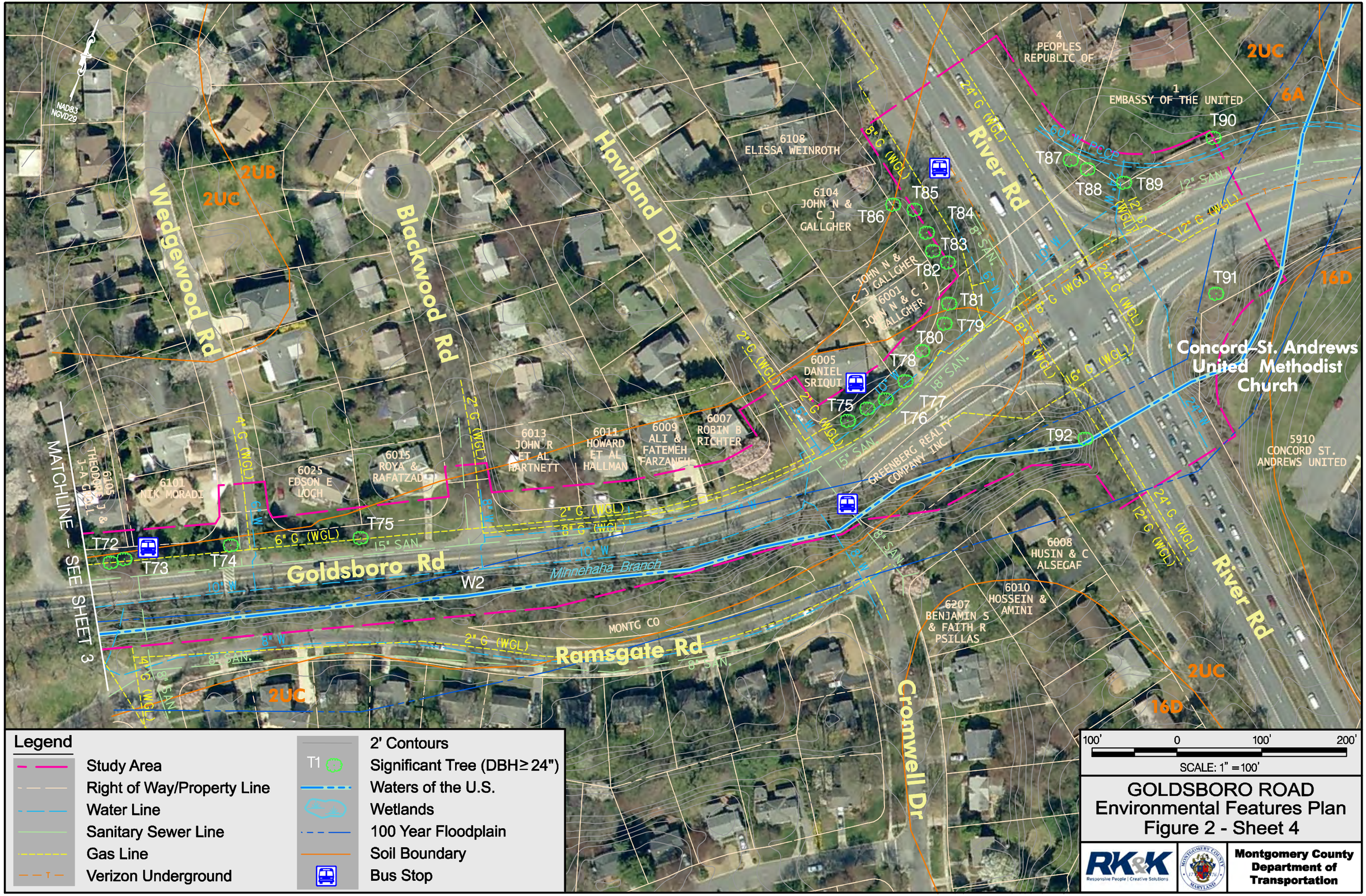
Montgomery County Department of Transportation



Legend

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100' 0 100' 200'

SCALE: 1" =100'

GOLDSBORO ROAD
Environmental Features Plan
Figure 2 - Sheet 4

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Montgomery County Department of Transportation

Geology and Soils

The study area is located within the Piedmont Plateau Physiographic Province. According to the *Soil Survey Geographic (SSURGO) Database for Montgomery County, Maryland* (USDA, NRCS, 2007), the following soil series occur within the study area (see **Table 1** & **Figure 2**):

- Baile (6A) – very deep, poorly drained soils located in upland depressions and footslopes.
- Brinklow-Blocktown (16D):
  - Brinklow – moderately deep, well drained soils in uplands.
  - Blocktown – shallow, well drained soils in uplands.
- Glenelg (2B, 2UB, 2UC) - very deep, well drained soils on broad ridgetops and side slopes in uplands.

Table 1
GENERAL SOIL PROFILE

Soil Series	Depth (Inches)	Texture(s)
Baile	0-9	Silt loam
	9-14	Silty clay loam
	14-22	Silty clay loam
	22-32	Silty clay loam
	32-65	Loam
Brinklow	0-10	Channery silt loam
	10-25	Channery silt loam, loam, silty clay loam
	25-35	Weathered bedrock
	35-39	Unweathered bedrock
Blocktown	0-6	Channery silt loam
	6-17	Very channery loam, very channery silty clay loam, extremely channery silt loam
	17-21	Weathered bedrock
	21+	Unweathered bedrock
Glenelg	0-8	Silt loam
	8-28	Channery silt loam, loam, silty clay loam
	28-60	Channery loam, loam, sandy loam

The *SSURGO Database* lists the Baile soil series as hydric. The Glenelg and Brinklow-Blocktown soil series have Baile hydric inclusions in flats.

The Baile series has a reported K-value (erodibility factor) of 0.43, greater than the 0.35 threshold when soils may pose construction-related hazards. The Glenelg (2B) soil series is described as prime farmland in the *SSURGO Database*. **Table 2** provides additional information and limitations for soil subclasses.

Table 2 SOIL CHARACTERISTICS AND LIMITATIONS				
Soil Type	**Hydric Status**	**K-Value**	**Prime or Other Important Farmlands**	**Restrictions and Limitations [a]**
Glenelg (2B)	Baile inclusions	0.32	All areas are Prime farmland	Somewhat limited due to frost action
Glenelg (2UB)	Baile inclusions	0.32	No	Somewhat limited due to frost action
Glenelg (2UC)	Baile inclusions	0.32	No	Somewhat limited due to slope and frost action
Baile (6A)	Yes	0.43	No	Very limited due to depth to saturated zone, frost action, and shrink-swell potential
Brinklow (16D)	Baile inclusions	0.28	None	Very limited due to slope, shrink-swell, frost action, depth to hard bedrock, and low strength
Blocktown (16D)	Baile inclusions	0.24	None	Very limited due to slope, depth to soft bedrock, and frost action

a. Based on limitations for local roads and streets.
Source: USDA, NRCS. 2007. *Soil Survey Geographic (SSURGO) Database for Montgomery County, Maryland*.

Vegetation

The project team conducted a walk-through level Forest Stand Delineation (FSD) to characterize the forest within the study area on January 21 & 23, 2013. This FSD includes information typically required by the Montgomery County Trees Approved Technical Manual (i.e. common and dominant species, overall forest condition, invasive species, and successional stage). Additionally, the project team identified all significant trees (individual trees with a DBH of 24 inches or more) within the project study area in accordance with Montgomery County requirements. In total, one forest stand (FS1) and 94 significant trees were identified and are depicted on **Figure 2**.

Forest Stand 1 (FS1)

Forest Stand 1 (FS1) along Goldsboro Rd. near MacArthur Blvd.

FS1 is an early to mid-successional Tulip Poplar Association forest that surrounds Goldsboro Road throughout the entire study area. This urban forested community is dominated by 12-20-inch DBH tulip poplar (*Liriodendron tulipifera*), American sycamore (*Platanus occidentalis*), American beech (*Fagus grandifolia*), northern red oak (*Quercus rubra*), and white oak (*Quercus alba*) in the tree canopy. Dominant understory species include black gum (*Nyssa sylvatica*), red maple (*Acer rubrum*), American beech (*Fagus grandifolia*), box elder (*Acer negundo*), black locust (*Robinia pseudoacacia*), spicebush (*Lindera benzoin*), and white mulberry (*Morus rubra*). Common herbaceous species include common greenbrier (*Smilax rotundifolia*), Japanese honeysuckle (*Lonicera japonica*),

multiflora rose (*Rosa multiflora*), English Ivy (*Hedera helix*), poison ivy (*Toxicodendron radicans*), bamboo (*Arundinaria gigantean*), purpleleaf wintercreeper (*Euonymous fortunei*), and lesser celandine (*Ranunculus ficaria*). This forest is in fair condition overall and includes some areas of disturbance, primarily along utilities and road edges. These areas of disturbance generally include 6-12 inch DBH black locust, box elder, red maple, with higher levels of invasive species. **Table 3** summarizes the investigation results.

Table 3
GENERAL CHARACTERISTICS OF FOREST STAND 1

Forest Association	Tulip Poplar
Successional stage	early to mid
Dominant species in canopy	tulip poplar (*Liriodendron tulipifera*) American sycamore (*Platanus occidentalis*) American beech (*Fagus grandifolia*) northern red oak (*Quercus rubra*) white oak (*Quercus alba*)
Size class of dominant species	12-20 inches DBH with some larger species scattered throughout
Percent canopy closure	70-80% with some gaps
Dominant understory species	black gum (*Ilex opaca*) red maple (*Acer rubrum*) American beech (*Fagus grandifolia*) box elder (*Acer negundo*) black locust (*Robinia pseudoacacia*) spicebush (*Lindera benzoin*) white mulberry (*Morus rubra*)*
Common herbaceous species	common greenbrier (*Smilax rotundifolia*) Japanese honeysuckle (*Lonicera japonica*)* multiflora rose (*Rosa multiflora*)* English ivy (*Hedera helix)** poison ivy (*T. radicans*) bamboo (*Arundinaria gigantea*)* purpleleaf wintercreeper (*Euonymous fortunei*)* lesser celandine (*Ranunculus ficaria*)*
Invasive species	see species above with an *
Invasive cover	moderate
Downed Woody Debris	moderate
Condition	fair due to moderate invasive cover and disturbed areas

Table 4 summarizes characteristics for all the significant trees within the study area.

Table 4
SIGNIFICANT TREES

Tree #	Common Name	Scientific Name	DBH	Condition	Comments
T1	Northern red oak	*Quercus rubra*	43	Fair	Included bark, girdling roots, interfering branch
T2	Willow oak	*Quercus phellos*	31	Fair/poor	Decay, girdling roots
T3	Willow oak	*Quercus phellos*	32	Fair	Girdling roots

Table 4 SIGNIFICANT TREES					
T4	American Sycamore	*Platanus occidentalis*	34	Good	
T5	American Sycamore	*Platanus occidentalis*	32	Fair	Deadwood, thin crown
T6	Northern red oak	*Quercus rubra*	37	Fair	Lean, deadwood
T7	American beech	*Fagus grandifolia*	26	Good	
T8	Tulip poplar	*Liriodendron tulipifera*	37	Fair	Thin crown, deadwood
T9	American Sycamore	*Platanus occidentalis*	41	Fair	Vines, roots restricted by road
T10	Tulip poplar	*Liriodendron tulipifera*	29	Fair	Vines in crown, deadwood
T11	Tulip poplar	*Liriodendron tulipifera*	33	Fair/poor	Deadwood, thin crown
T12	Tulip poplar	*Liriodendron tulipifera*	33	Good	
T13	White oak	*Quercus alba*	29	Fair	Sparse crown
T14	Box elder	*Acer negundo*	25	Fair	Lean, deadwood
T15	American Sycamore	*Platanus occidentalis*	35	Fair	Lean
T16	White mulberry	*Morus alba*	25	Poor	Vines in crown, heavy suckering
T17	American beech	*Fagus grandifolia*	24	Poor	Main stem decay, vines
T18	American Sycamore	*Platanus occidentalis*	38	Fair	Lean
T19	American Sycamore	*Platanus occidentalis*	25	Fair	Lean
T20	American Sycamore	*Platanus occidentalis*	30	Fair	Lean
T21	American Sycamore	*Platanus occidentalis*	33	Fair	Severe lean
T22	American Sycamore	*Platanus occidentalis*	25	Good/fair	Vines
T23	Tulip poplar	*Liriodendron tulipifera*	26	Fair	Vines in crown, deadwood
T24	White oak	*Quercus alba*	42	Fair	Twin, included bark, deadwood
T25	American Sycamore	*Platanus occidentalis*	25	Fair	Thin crown
T26	American Sycamore	*Platanus occidentalis*	24	Fair	Vines, thin canopy
T27	Tulip poplar	*Liriodendron tulipifera*	26	Fair/poor	Lean, deadwood
T28	Green ash	*Fraxinus pennsylvanica*	32	Fair	Lean
T29	American Sycamore	*Platanus occidentalis*	29	Fair	Roots compromised
T30	White oak	*Quercus alba*	28	Fair/good	Vines
T31	American beech	*Fagus grandifolia*	27	Good	
T32	White oak	*Quercus alba*	28	Good/fair	Deadwood, lean

Table 4 SIGNIFICANT TREES					
T33	American Sycamore	*Platanus occidentalis*	32	Fair	Lean, vines
T34	Tulip poplar	*Liriodendron tulipifera*	35	Good	
T35	Tulip poplar	*Liriodendron tulipifera*	26	Good	Minor lean
T36	Tulip poplar	*Liriodendron tulipifera*	38	Fair/poor	Triple, IB, deadwood
T37	Tulip poplar	*Liriodendron tulipifera*	27	Good	
T38	Tulip poplar	*Liriodendron tulipifera*	24	Fair	Mainstem decay, included bark, crooked lead
T39	Northern red oak	*Quercus rubra*	30	Good/fair	Some lean, deadwood
T40	American Sycamore	*Platanus occidentalis*	24	Fair	Trunk decay, some lean
T41	American beech	*Fagus grandifolia*	28	Good	
T42	Tulip poplar	*Liriodendron tulipifera*	28	Fair	Crooked lead
T43	American Sycamore	*Platanus occidentalis*	34	Fair	Topped
T44	American Sycamore	*Platanus occidentalis*	38	Good	
T45	Eastern white pine	*Pinus strobus*	25	Good	
T46	Eastern white pine	*Pinus strobus*	24	Good	
T47	American Sycamore	*Platanus occidentalis*	24	Fair	Lean
T48	Northern red oak	*Quercus rubra*	25	Fair	Lean
T49	American Sycamore	*Platanus occidentalis*	38	Fair	Deadwood, some lean
T50	American Sycamore	*Platanus occidentalis*	24	Poor	Mainstem decay, vines
T51	Tulip poplar	*Liriodendron tulipifera*	28	Good/fair	Deadwood
T52	Tulip poplar	*Liriodendron tulipifera*	25	Fair	Thin crown, deadwood
T53	Tulip poplar	*Liriodendron tulipifera*	25	Fair	Thin crown, deadwood
T54	Tulip poplar	*Liriodendron tulipifera*	29	Fair	Crooked lead, deadwood
T55	Northern red oak	*Quercus rubra*	24	Fair	Deadwood
T56	Tulip poplar	*Liriodendron tulipifera*	24	Good	
T67	Red maple	*Acer rubrum*	32	Poor	Included bark, broken top, deadwood
T57	American Sycamore	*Platanus occidentalis*	50	Fair	Lean, vines
T58	American Sycamore	*Platanus occidentalis*	28	Fair	Lean, vines

Table 4 SIGNIFICANT TREES					
T59	Tulip poplar	*Liriodendron tulipifera*	24	Fair/poor	Thin crown, vines
T60	Tulip poplar	*Liriodendron tulipifera*	29	Good	Vines
T61	American Sycamore	*Platanus occidentalis*	26	Good	Some lean
T62	American Sycamore	*Platanus occidentalis*	28	Fair	Lean, deadwood
T63	Tulip poplar	*Liriodendron tulipifera*	27	Fair	Deadwood, crooked lead
T65	Tulip poplar	*Liriodendron tulipifera*	31	Good/fair	Deadwood
T64	Northern red oak	*Quercus rubra*	52	Fair	Deadwood, lean, vines
T66	White oak	*Quercus alba*	28	Fair	Deadwood, vines in crown
T68	Northern red oak	*Quercus rubra*	50	Fair	Included bark, deadwood, vines
T69	White oak	*Quercus alba*	30	Good/fair	Deadwood
T70	Tulip poplar	*Liriodendron tulipifera*	32	Good/fair	Deadwood
T71	Eastern white pine	*Pinus strobus*	32	Good/fair	Some lean, deadwood
T72	Red maple	*Acer rubrum*	24	Good/fair	Girdling roots, deadwood
T73	Red maple	*Acer rubrum*	26	Poor	Vines smothering into crown
T74	Siberian elm	*Ulmus pumila*	29	Poor	Mainstem decay, included bark, base damage
T75	Eastern white pine	*Pinus strobus*	28	Fair/poor	Lean, deadwood, vines
T76	Eastern white pine	*Pinus strobus*	28	Poor	Vines in crown, one sided
T77	Eastern white pine	*Pinus strobus*	24	Poor	Vines in crown, one-sided
T78	Red maple	*Acer rubrum*	33	Fair	Included bark, broken stem
T79	Tulip poplar	*Liriodendron tulipifera*	35	Fair	Included bark, deadwood
T80	Tulip poplar	*Liriodendron tulipifera*	35	Good	Deadwood
T81	Tulip poplar	*Liriodendron tulipifera*	29	Fair	Crooked lead, deadwood, suckers
T82	Tulip poplar	*Liriodendron tulipifera*	36	Good/fair	Deadwood
T83	Tulip poplar	*Liriodendron tulipifera*	38	Fair/poor	2x, included bark, suspect union, deadwood
T84	Tulip poplar	*Liriodendron tulipifera*	29	Good/fair	Deadwood, vines
T85	Tulip poplar	*Liriodendron tulipifera*	25	Good/fair	Deadwood, vines
T86	Tulip poplar	*Liriodendron tulipifera*	32	Fair	Deadwood, suspect base
T87	Black locust	*Robinia pseudoacacia*	35	Poor	Broken limb, vines, dying
T88	White mulberry	*Morus alba*	24	Poor	Vines, suckering

Table 4 SIGNIFICANT TREES					
T89	Green ash	*Fraxinus pennsylvanica*	32	Poor	Lean, deadwood
T90	Red maple	*Acer rubrum*	26	Fair	Vines, busted limbs
T91	Tulip poplar	*Liriodendron tulipifera*	24	Fair	Vines
T92	Red maple	*Acer rubrum*	24	Poor	2x, hollow base, deadwood, vines
T93	Tulip poplar	*Liriodendron tulipifera*	33	Fair	Broken top
T94	Red maple	*Acer rubrum*	24	Poor	Vines smothering into canopy, deadwood

Watersheds and Floodplains

The project area is located in the Potomac River Montgomery County watershed (8-digit code 02140202), part of the Middle Potomac River tributary basin. This tributary basin conveys flow to the Potomac River and eventually the Chesapeake Bay.

The *Q3 Flood Data; Montgomery County, Maryland* (FEMA, 2001) indicates that the majority of the study area is located within the 100-year floodplain (see **Figure 2**).

Wetlands and Waters of the US

Review of the National Wetlands Inventory (NWI) and MD DNR GIS mapping for Montgomery County indicates that no wetlands were previously recorded within the study area (see Appendix). MD DNR GIS mapping identifies a waterway (Minnehaha Branch) that flows through the majority of the study area along Goldsboro Road.

The project team delineated wetlands within the study area in accordance with the U. S. Army Corps of Engineers 2010 *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region Version 2.0,* ed. J.F. Berkowitz, J.S. Wakeley, R.W. Lichvar, C.V. Noble. ERDC/EL TR-12-9. Vicksburg, MS: U.S. Army Engineer Research and Development Center. Routine wetland determination methods with onsite inspection were used to determine the presence of wetlands in the study area.

Waters of the U.S., other than wetlands were delineated using the limits defined in 33 C.F.R. § 328. The boundaries of non-tidal waters of the U.S. other than wetlands were set at the ordinary high water mark (OHW), which was determined in the field using physical characteristics established by the fluctuations of water (e.g., change in plant community, changes in the soil character, shelving) in accordance with U.S. Army Corps of Engineers Regulatory Guidance Letter No. 05-05.

Clean Water Act jurisdiction of delineated features was determined in accordance with the June 5, 2007 joint guidance issued by U.S. Environmental Protection Agency and U.S. Army Corps of Engineers following the U.S. Supreme Court's decision in the consolidated cases

Rapanos v. United States and Carabell v. United States (Rapanos); and the January 19, 2001 joint guidance issued by U.S. Environmental Protection Agency and U.S. Army Corps of Engineers following U.S. Supreme Court's decision in Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers (SWANCC).

The project team identified one wetland, one perennial stream (Minnehaha Branch), and one intermittent stream within the study area during the field investigation on January 23, 2013. These features are shown on **Figure 2** and are described below. A jurisdictional determination (JD) by the US Army Corps of Engineers and the Maryland Department of the Environment has not been conducted to verify the wetland and waters of the U.S. boundaries. A JD is recommended during the design phase of this project.

Wetland W1

Wetland W1 along Goldsboro Rd. near MacArthur Blvd.

Wetland W1 is a palustrine emergent/palustrine forested (PEM/PFO) wetland located along the westbound side of Goldsboro Road within the western limits of the project study area. Dominant vegetation includes box elder, multiflora rose, and purple-leaf wintercreeper. The soils in this area met the hydric soil indicator F3: Depleted Matrix. Hydrologic indicators include sediment deposits, water-stained leaves, and geomorphic position. This wetland receives hydrology from an intermittent stream that flows through the center of the wetland. This small stream becomes less defined as it passes through the study area into wetland W1. Three 18-inch pipes, mostly blocked with leaf litter and debris, convey hydrology from W1 and the stream across Goldsboro Road. These pipes drain into the main stem of the Minnehaha Branch on the eastbound side of Goldsboro Road. This wetland feature is not shown on NWI or MD DNR GIS mapping, however this area is considered jurisdictional, since all three wetland parameters were met during field investigations.

Waters of the U.S. W2

Waters of the U.S. W2 – Minnehaha Branch at MacArthur Blvd.

The Minnehaha Branch was identified as Waters of the U.S. W2. This perennial, relatively permanent waters (RPW) flows alongside Goldsboro Road throughout the entire study area and crosses under the roadway at two locations (Tulip Hill Terrace and Goldleaf Drive). The western portion of the stream within the study area (closer to MacArthur Blvd.) has a more natural channel shape and includes bedrock and cobble as

substrate, while the eastern portion becomes increasingly channelized and includes sections with gabion baskets. The substrate in the eastern portion includes more silt, sand, and gravel and the side slopes exhibit more significant erosion. Overall, stream width averages 10-15 feet and water depth averages 12-18 inches. Sediment deposition, water stained leaves, litter and debris, scour, and flow were observed during the investigation. Vegetation along the banks consists primarily of American sycamore, tulip poplar, beech, and spicebush, with a higher incidence of black locust, greenbrier, English ivy, and bamboo in the more disturbed areas. This feature is identified on MD DNR GIS mapping and is considered jurisdictional under Rapanos guidance.

Waters of the U.S. W2 – Minnehaha Branch near Massachusetts Ave.

Waters of the U.S. W3

Waters of the U.S. W3 is an intermittent RPW located along eastbound Goldsboro Road, just east of Tulip Hill Terrace. This feature originates at a 36-inch pipe and flows approximately 100 feet downstream into another 36-inch pipe, where it crosses under Goldsboro Road and connects to Minnehaha Branch (Waters of the U.S. W2). W3 has stable banks with an average width of 2-5 feet and water depth of 6-10 inches. Substrate includes silt and sand and adjacent vegetation consists of box elder, beech, red maple, tulip poplar, and English ivy. Disturbed leaf litter, water staining, litter and debris, and flow were observed during the investigation. W3 is not shown on MD DNR GIS mapping but is considered jurisdictional under Rapanos guidance.

Waters of the U.S. W3 – East of Tulip Hill Terrace

The project team examined a low lying area located west of Tulip Hill Terrace on the westbound side of Goldsboro Road as a potential wetland. The area receives hydrology from an ephemeral stream; however, the project team determined that the area did not meet the three parameter wetland requirements since soils were not hydric.

Impacts to jurisdictional wetlands and/or Waters of the U.S. will require permit authorization through the USACE and Maryland Department of the Environment (MDE).

Special Protection Areas

A review of the Montgomery County Department of Environmental Protection mapping indicated that the study area is not within a designated Special Protection Area (SPA).

Wildlife, including Rare, Threatened and Endangered Species

The Nongame and Endangered Species Conservation Act (Annotated Code of Maryland 10-2A-01) governs the listing of rare, threatened, and endangered (RTE) species in the State of Maryland. Information from the United States Department of the Interior Fish and Wildlife Service (USFWS), MD DNR's Wildlife and Heritage Service, and MD DNR's Environmental Review Unit was requested January 17, 2013 to identify any previously documented RTE species in or near the study area. A summary of the responses are provided below, copies of these letters are included in the Appendix.

- In a letter dated March 4, 2013 USFWS responded, "[E]xcept for occasional transient individuals, no federally proposed or listed endangered or threatened species are known to exist within the project impact area."

- In a letter dated March 4, 2013 MD DNR Wildlife and Heritage Service, "determined that there are no State or Federal records for rare, threatened or endangered species within the boundaries of the project site as delineated."

- In a letter dated February 6, 2013 MD DNR Environmental Review Unit responded with the following:

> Minnehaha Branch (Washington Metropolitan River Basin) and tributaries near the site are classified as Use I-P streams (Water Contact Recreation, and Protection of Aquatic Like and Public Water Supply.) Generally no instream work is permitted in Use I streams during the period of March 1 through June 15, inclusive, during any year….No anadromous fish have been documented near the site.

No federal or state RTE species would be impacted by the proposed project. The instream construction restriction period would be adhered to during construction should the construction of the proposed facility occur within waterways.

III. Historic and Cultural Resources

Washington Aqueduct Valve Station at the Goldsboro Rd. / MacArthur Blvd. Traffic Circle

The project team initiated coordination with the Maryland Historical Trust (MHT), Maryland-National Capital Parks and Planning Commission (M-NCPPC), and Montgomery County Planning Department on January 24, 2013. Background research completed at the MHT Library, indicated that the Washington Aqueduct is the only historic resource previously identified within the project area. The Washington Aqueduct has been confirmed as a National Register Listed National Historic Landmark and is located at the west end of the project area, along the alignment of MacArthur Boulevard. Additionally, several previously identified cultural resources and archaeological reports are located near the west end of the project area at MacArthur Boulevard. These resources include the following:

Table 5
ARCHITECTURAL RESOURCES

Name	MHT#	Description	NRHP Status
Cabin John Right-of-Way (Brookmont Trolley Row)	M:35-31	Unused street car right-of-way of the old Washington Railway and Electric Company's electric street railway to Cabin John, Maryland, dating to 1896.	Not previously evaluated
Glen Echo Park Historic District *7300 MacArthur Blvd.*	M:35-41	Site of the late 19th century Chatauqua movement at Glen Echo, Maryland; a rare surviving regional example of an early 20th century amusement park of architectural and historical significance; and a major commercial and recreational facility for area residents and visitors from its establishment in 1899 on the site of the short-lived Chautauqua until its closing in 1968.	Listed (Criteria A and C)
Washington Aqueduct	M:29-49	An intact 19th century water supply system located within Montgomery County, MD and Washington, DC. The NRHP boundary reflects the period of significance extending to 1939.	Listed (Criteria A and C) and also a National Historic Landmark

Table 6
HISTORIC ARCHAEOLOGICAL SITES

Name	MHT#	Description	Finding
Glen Echo Chatauqua	18MO153	19th century summer resort and early 20th century amusement park	Identified in archaeological report MO43.
Washington & Great Falls Electric Railroad Company	18MO166	Late 19th to 20th century electric railroad bed, trolley line	Identified in archaeological report MO43.

Table 7 ARCHAEOLOGICAL REPORTS			
MHT#	**Author**	**Title**	**Date**
MO43	Katherine Franklin and Sarah Gregory	Report on a Reconnaissance Archeological Survey of Park Service Property Affected by the Rock Run WSSC Alternate Points of Discharge	December 1980
MO233	Stuart Fiedel, John Bedell, and Charles Lee Decker	Archeological Identification and Evaluation Study of C&O Canal National Historical Park Rock Creek to Sandy Hook (Mile Markers 0 to 59), Volume II	December 2005

Based upon the current scope of the project, it is not anticipated that any of these resources or their environmental settings would be affected by the project.

Figure 3 depicts the location of the recorded historic resources mentioned above.

In an email dated February 28, 2013 (see Appendix), MHT responded that additional consultation should occur once the project has been defined and project plans are available for review. When 35 percent design and the limit of disturbance are established for the undertaking, Section 106 consultation will continue with MHT and any additional consulting parties. This consultation will address any potential archaeological subsurface work, the identification and evaluation of properties greater than 45 years old in the area of potential effects, and the undertaking's effect on historic properties.

IV. Parks and Recreational Facilities

Figure 3 depicts the location of known parks located in proximity of the study area. Merrimack Neighborhood Park is a 10-acre community park located north of the project area. Its southernmost extent abuts the northern boundary of Davenport Terrace. This neighborhood park features tennis courts, a playground, and multi-use recreational field. Glen Echo Heights Neighborhood Park is located south of the project area, at 5530 Mohican Road. This approximately two-acre park features a playground, basketball court, and small multi-use field.

Additionally, Clara Barton National Historic Site and Glen Echo Park are located south of the study area. Both of these sites are managed by the National Park Service.

The proposed bicycle and pedestrian improvements would occur primarily within the existing roadway right-of-way and any potential property acquisitions would consist of minor strip takes of neighboring properties. No parks are located directly abutting the study area. As a result, no impacts to area parks are anticipated to occur.

V. Community and Emergency Facilities and Services

The project team reviewed the study area for the presence of community facilities and services. **Figure 3** depicts the location of these facilities. Two places of worship were identified near the project area. Concord-St. Andrews United Methodist Church is located at the southeast corner of River and Goldsboro Roads, just east of the project area. In addition to worship services, this facility also operates a nursery school on site. The Episcopal Church of the Redeemer is located at the corner of Dunrobbin Drive and MacArthur Boulevard, northwest of the project area. No fire stations, post offices, libraries, or other community facilities were identified within the study area. The study area is currently served by the following schools: Bannockburn Elementary School, Wood Acres Elementary School, Thomas W. Pyle Middle School, and Walt Whitman High School. All existing and planned schools are located outside the immediate project area (Goldsboro Road).

Concord-St. Andrews United Methodist Church at Goldsboro Rd. / River Rd.

Table 8
COMMUNITY FACILITIES AND SERVICES

Facility	Name	Location
Places of Worship	Concord-St. Andrews United Methodist Church	5910 Goldsboro Road
	The Episcopal Church of the Redeemer	6201 Dunrobbin Drive
Schools	Concord-St. Andrews Cooperative Nursery School	5910 Goldsboro Road
	Bannockburn ES	Dalroy Lane, west of study area
	Wood Acres ES	Cromwell Drive, east of study area
	Thomas W. Pyle MS	Wilson Lane, north of study area
	Walt Whitman HS	Whittier Boulevard, northeast of study area

VI. Hazardous Materials

The project team performed a hazardous materials preliminary screening assessment (PSA) to determine project risks associated with subsurface contamination originating at or near the project site. The PSA identifies potential sites of concern based on a database search of regulatory files for potentially contaminated sites in and around the project, a review of available historical maps and aerial photographs with coverage of the site, and a subject area inspection for any recognized environmental conditions. The georeferenced regulatory database and historic document searches covered a study area extending approximately ½ mile from the project site, searching applicable state, local, and federal databases.

The area surrounding the project site consists primarily of residential development interspersed with tracts of forest. Non-residential properties near the project site include: an Exxon gas station at 6729 Goldsboro Road, Kenwood Golf & Country Club at 5601 River Road, Walt Whitman High School at 7100 Whittier Boulevard, a small shopping mall at 7301

MacArthur Boulevard, a corporate center at 6400 Goldsboro Road, and Concord-St. Andrew's United Methodist Church at 5910 Goldsboro Road.

An inspection of the project site occurred on December 21, 2012. The visual inspection along Goldsboro Road and the Minnehaha Branch that flows parallel to the road identified minor amounts of roadside trash and non-hazardous debris. These consisted of solid waste and household trash consistent with typical litter. A particularly large amount of trash was noted at a potential illegal dumping site located in a wooded area at 6789 Goldsboro Road. No hazardous material issues were noted at the MacArthur Boulevard traffic circle, which contains the Washington Aqueduct control station.

Exxon Gas Station at Goldsboro Rd. / MacArthur Blvd.

An inspection of the Exxon gas station identified four gasoline underground storage tanks (USTs), adjacent to the filling station island, approximately 15 to 20 feet from the project site. Adjacent to the Exxon repair shop was an exterior chemical storage area, partially protected by steel/concrete posts. This area contained: one 275-gallon aboveground heating oil tank; a double-walled waste oil container; several plastic 55-gallon drums of used antifreeze; and two steel 55-gallon drums labeled for storage of waste oil and water. The heating oil tank was in good condition and had no signs of visible staining underneath. The waste oil tank appeared to be significantly rusted but otherwise in good condition with no signs of visible staining. The 55-gallon drums were in good condition and labeled for disposal.

An inventory of possible hazardous material sites was performed by reviewing environmental databases from the following federal, state, and local agencies: the Environmental Protection Agency (EPA); the Maryland Department of Environment (MDE); and the Montgomery County Department of Environmental Protection (DEP), Department of Permitting Services (DPS), and Office of Emergency Management and Homeland Security (OEMHS). *Responses are pending from all agencies other than MDE and this memo will be updated upon receipt of additional information*. See the Appendix for letters requesting environmentally relevant public records and for the MDE response.

Online databases of EPA and MDE records, historical USGS maps, and aerial photographs were reviewed. From this review, seventeen (17) documented hazardous material sites were identified and are summarized in **Table 9**. These sites are depicted on **Figure 3**.

Table 9 DOCUMENTED HAZARDOUS MATERIAL INCIDENTS		
Site	**Address**	**Status**
MDE – Oil Control Program		
A. Exxon	6729 Goldsboro Road	UST installation. No reported incidents.
B. Glen Echo Park	7300 MacArthur Boulevard	UST installation. Two release incidents, both closed.
C. Woodacres Wire Center	6200 Goldsboro Road	UST installation. Three release incidents, all closed.
D. Woodacres Elementary School	5800 Cromwell Drive	UST installation. One release incident, closed.
E. Kenwood Golf & Country Club	5601 River Road	UST installation. Five release incidents, all closed.
F. Long & Foster	6836 Tulip Hill Terrace	One release incident, closed.
G. Robert Perry Residence	6211 Wagner Lane	One release incident, closed.
H. Stewart Seides Residence	4 Buttonwood Lane	One release incident, closed.
I. Glen Echo Town Hall	6106 Harvard Avenue	One release incident, closed.
J. Town of Glen Echo	6101 Harvard Avenue	One release incident, closed.
K. Clara Barton National Historic Site	5801 Oxford Road	UST installation. Two release incidents, both closed.
L. Glen Echo Baptist Church	2 Vassar Circle	UST installation. One release incident, closed.
M. Pepco	6311 Avalon Drive	One release incident, closed.
N. Nelson Residence	6221 Verne Street	One release incident, closed.
O. Walt Whitman High School	7100 Whittier Boulevard	UST installation. One release incident, closed.
P. Residence	6513 Kenhill Road	One release incident, closed.
EPA – Resource Conservation and Recovery Act		
A. Exxon	6729 Goldsboro Road (also 6727 Goldsboro Road)	Listing – *Conditionally Exempt Small Quantity Generator.*
B. National Park Service	7300 MacArthur Boulevard	Listing – *Conditionally Exempt Small Quantity Generator.*
C. Verizon	6200 Goldsboro Road	No Listing.
Q. Bannockburn Elementary School	6520 Dalroy Lane	Listing – *Conditionally Exempt Small Quantity Generator.*

The Oil Control Program reports were all closed; therefore, petroleum impacts relating to these records are not expected to impact the proposed project. The RCRA sites all had no records of violations.

Historical aerial photographs from 1998 to present and topographic maps for 1982 indicate that the area has been primarily residential, with light commercial development at the intersections of Goldsboro Road with MacArthur Boulevard and Massachusetts Avenue. For the time period available, there were no observed environmentally substantive changes to the properties neighboring the subject area.

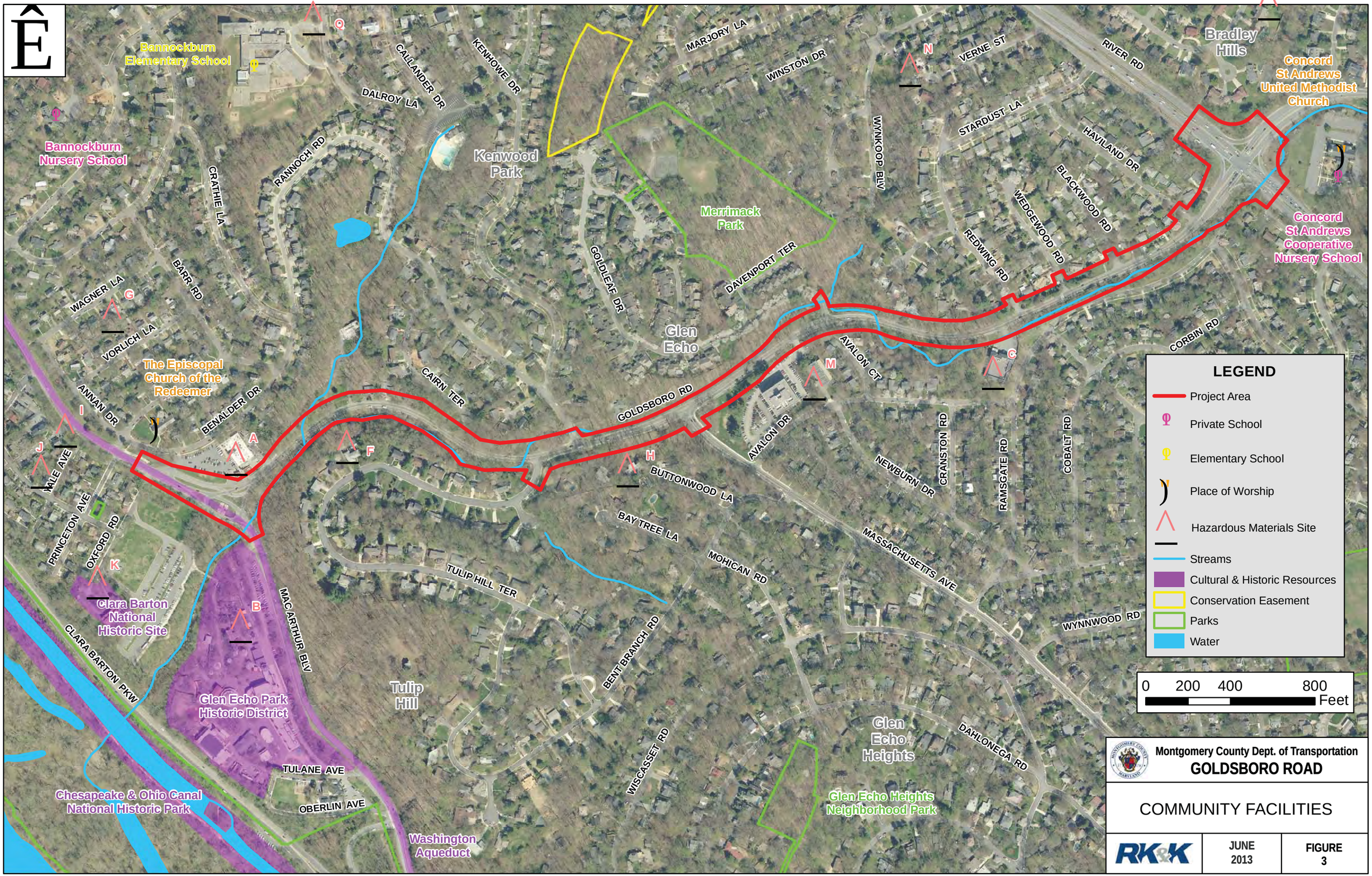
Additional records were received from MDE on January 31, 2013, under a Public Information Act request. These records document the following:

Site A, Exxon Gas Station: Owned by Southside Oil, LLC, this facility has had four gasoline fiberglass-reinforced plastic USTs since their installation in May 1979 (three 6000-gallon, one 8000-gallon). Two additional USTs, a 1000-gallon tank for used oil and a 1000-gallon tank for heating oil, were removed from the Exxon site in March 1997. High concentrations of petroleum contamination in soil and groundwater were found in the area near the current USTs, and three monitoring wells were installed in July 1997. Quarterly sampling of these wells found high levels of MTBE and BTEX in groundwater that flowed southward toward the Goldsboro Road/MacArthur Boulevard intersection. Sampling continued until the wells were abandoned in August 1998.

Site E, Kenwood Golf & Country Club: This facility has had four USTs – three 1000-gallon tanks for gasoline (one remaining in operation and two that have been removed from the site), and one 6000-gallon heating oil tank that has also been removed. All tanks were located near the facility's maintenance building, on the east side of the property, away from the project area. Contamination of the groundwater and soil was detected in March 2002, requiring a Geoprobe investigation and the installation of one monitoring well.

Site O, Walt Whitman High School: This facility has had one 20,000-gallon UST for heating oil. It was removed from the ground in June 1990, with low levels of petroleum contamination detected in the soil at the time of removal.

Based on the available information, there is a risk that the proposed project could encounter cost impacts due to subsurface hazardous material contamination emanating from the Exxon gas station at 6729 Goldsboro Road. Due to the potential environmental hazards within and near the subject area the project team recommends that, as design progresses, an assessment of the affected project area near the gas station be conducted, including the collection of soil and groundwater samples for the characterization of the nature and extent of potential contamination within the planned or presumed construction area. The primary contaminants of concern should include common petroleum constituents (such as diesel-range organics and gasoline-range organics), BTEX, MTBE, and hazardous metals. Pending the results of the additional assessment, special soil and groundwater-handling specifications may be required during excavation, for site worker health and safety exposure concerns and environmental protection requirements.



Montgomery County Dept. of Transportation

GOLDSBORO ROAD

COMMUNITY FACILITIES

RK&K

JUNE 2013

FIGURE 3

VII. Socioeconomic Environment

An inventory of the socioeconomic resources in the project area included a review of data from the Montgomery County General Plan, and current land use and zoning maps.

Land Use and Zoning

Land use in the study area is primarily residential as illustrated in **Figure 4**.

The majority of the land in the study area is zoned residential, allowing for a variety of housing densities (**Figure 4**). The zones and their descriptions are described in **Table 10**.

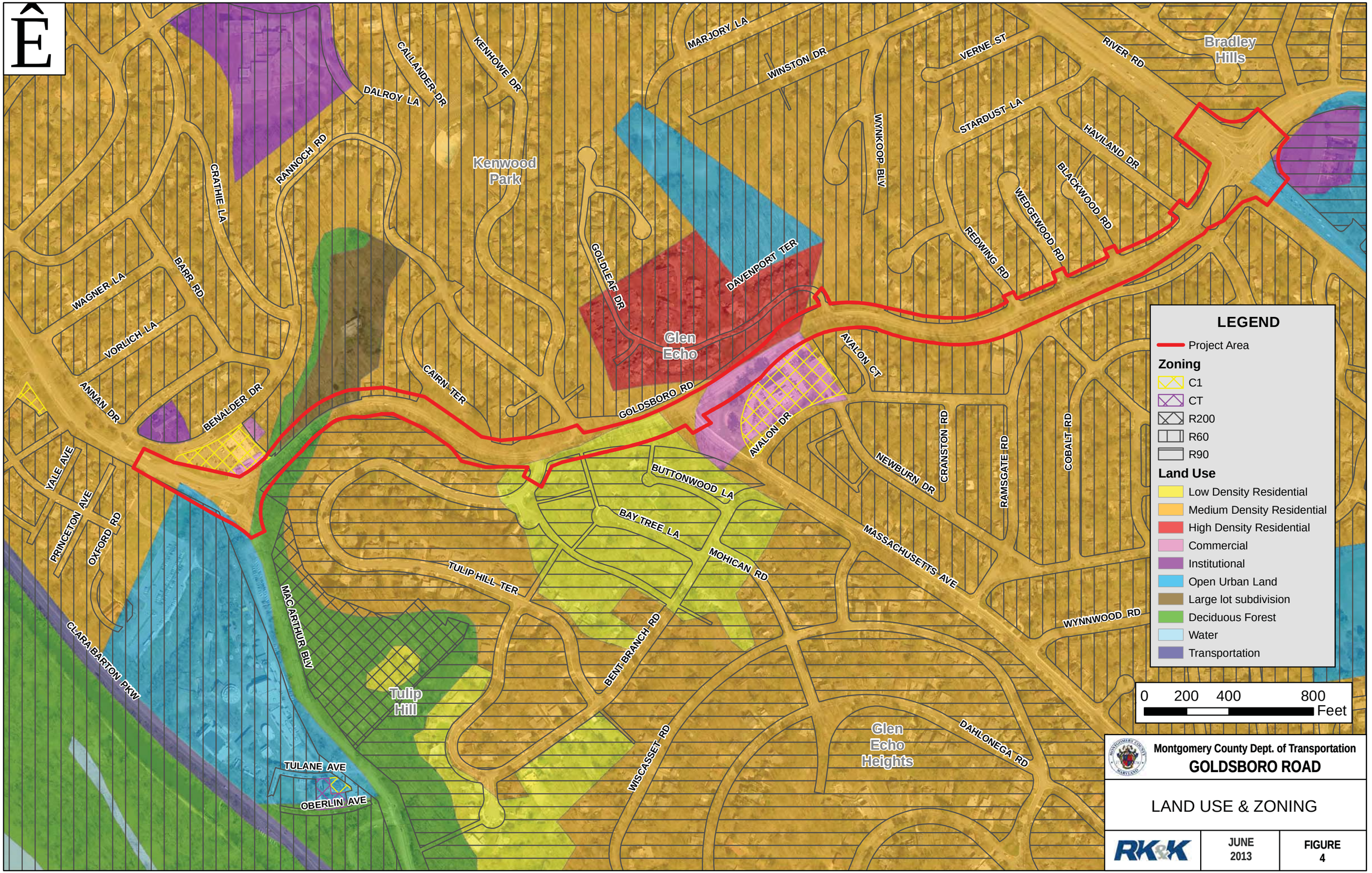
Table 10
ZONING

Zoning	Description
C1	Convenience Commercial
CT	Commercial Transitional
R-200	Single-Family
R-60	Single-Family
R-90	Single-Family

Five residential developments exist within the study area. A description of each is described in **Table 11** below:

Table 11
RESIDENTIAL COMMUNITIES AND DEVELOPMENTS

Community	Location	Type of Housing
Bradley Hills	North quadrant of the intersection of River Road and Goldsboro Road	Single-Family
Glen Echo	North side of Goldsboro Road	Single-Family Attached
Glen Echo Heights	South side of Goldsboro Road	Single-Family
Kenwood Park	North side of Goldsboro Road	Single-Family
Tulip Hill	South side of Goldsboro Road	Single-Family



Montgomery County Dept. of Transportation

GOLDSBORO ROAD

LAND USE & ZONING

RK&K	JUNE 2013	FIGURE 4

VIII. Utilities

An inventory of existing utilities in the study area was performed by contacting Miss Utility for a listing of known utilities in the project area, collecting record maps from public and private utilities and through field review. A list of the inventoried utilities and status of records received is presented in **Table 12**.

Table 12
EXISTING UTILITY INVENTORY

Owner	Utility	Status of Record Plans
PEPCO	Electric	Pending Receipt
Washington Gas	Gas	Received
WSSC	Water & Sewer	Received
USACE	Water (Washington Aqueduct)	Shown on WSSC plans
Verizon	Telecommunications	Received
Comcast	Cable Television	Received
FiberLight	Telecommunications	Received
Century Link (formerly QWEST)	Telecommunications	Received

The following are brief descriptions of utilities in the Goldsboro Road corridor.

PEPCO facilities include overhead power lines along the entire Goldsboro Road corridor. The overhead power line utility poles are typically offset two to four feet behind the back of the existing shoulders, sidewalk, or curb (in some instances also behind guardrail). From MacArthur Boulevard at the western limit of Goldsboro Road to Massachusetts Avenue, the overhead power lines are located on both sides of the roadway. From Massachusetts Avenue to River Road at the eastern limit of the study area, the overhead power lines are located on the south side of the roadway. In addition to distribution, the overhead power lines also feed existing roadway lighting (mounted on utility poles) throughout the corridor.

Washington Gas facilities along Goldsboro Road include:

- 4-inch main along the north side - MacArthur Blvd. to west of Rannoch Rd. (turning at 6701 Goldsboro Rd. toward Rannoch Rd.)
- 4-inch main along the south side - Tulip Hill Terr. to Massachusetts Ave.
- 8-inch main along the south side - Massachusetts Ave. to east of Goldleaf Dr. (crossing the roadway at 6215 Goldsboro Rd.)
- 6-inch main below the center line (approx.) - 6215 Goldsboro Rd. to Redwing Rd.
- 6-inch main along the north side - Redwing Rd. to Blackwood Rd.
- Parallel 2-inch and 8-inch mains along the north side - Blackwood Rd. to Haviland Dr.
- 8-inch main along the north side - Haviland Dr. to east of River Rd.

Verizon facilities include overhead and underground telecommunication lines along the Goldsboro Road corridor. Underground telecommunication lines (duct banks / manholes) cross MacArthur Boulevard north of Goldsboro Road; parallel the Glen Echo Shopping Center parking lot (between the traffic circle and parking lot); cross Goldsboro Road east of the traffic circle; extend along Goldsboro Road from MacArthur Boulevard to Massachusetts Avenue; and are also located at the intersection of Goldsboro Road and River Road.

WSSC water facilities include:

- 10-inch main along the south side - MacArthur Blvd. to east of Massachusetts Ave.
- 16-inch main along the north side - east of Massachusetts Ave. to Goldleaf Dr.
- 10-inch main along the south side - Goldleaf Dr. to Haviland Dr.
- Parallel 4-inch (north side) and 10-inch (south side) mains - Haviland Dr. to River Rd.

WSSC sewer facilities include:

- 15-inch main along the north side - MacArthur Blvd. to west of Rannoch Rd.
- 21-inch main along the north side - west of Rannoch Rd. to Goldleaf Dr.
- 18-inch main along the north side - Goldleaf Dr. to Redwing Rd.
- 15-inch main along north side – Redwing Rd. to River Road

The USACE maintains the **Washington Aqueduct**, which is located along MacArthur Boulevard and supplies drinking water to Washington, D.C and parts of Northern Virginia. The Aqueduct is comprised of two conduits, one 9-feet in diameter and one 10-feet x 10-feet 6-inch elliptical. A control station for the Washington Aqueduct is located within the traffic circle at the intersection of MacArthur Boulevard and Goldsboro Road. As noted in this report, the Washington Aqueduct is a National Register Listed National Historic Landmark.

Comcast facilities are primarily located overhead, on PEPCO poles, with some underground cable at the intersection of Goldsboro Road and Goldleaf Lane.

FiberLight and **Century Link** (formerly QWEST) maintain underground fiber optic lines along the east side of River Road and along the south side of Goldsboro Road, east of River Road.

IX. Existing Roadway and Pedestrian Facilities

Within the Project Area, Goldsboro Road is an undivided, two-lane, two-way roadway, with a speed limit of 35 mph. Goldsboro Road is identified in the Bethesda-Chevy Chase Master Plan as Arterial A-84 from MacArthur Boulevard to Massachusetts Avenue, and as Major Highway M-93 from Massachusetts Avenue to River Road. The Master Plan recommends that A-84 remain as a two-lane section, and recommends M-93 have an ultimate width of four lanes. The Countywide Bikeways Functional Master Plan proposes on-street bike lanes along Goldsboro Road within the limits of the study area.

The existing right of way along Goldsboro Road varies but is typically 90-100 feet wide. There are large areas of additional right of way adjacent to the Massachusetts Avenue intersection, established to accommodate a previous intersection configuration. The right of way has a minimum width of approximately 65 feet near the western limit of the project.

The roadway has shoulders along the majority of the project corridor, which vary in width, but are typically 2-4 feet wide. The intersections with side roads usually do not have acceleration, deceleration, or turning lanes, except at the major intersections at Massachusetts Avenue and River Road. The roadway has a mix of open and closed section roadway; the closed section areas do not generally enter a closed drainage system, but instead outfall into adjacent drainage features. There is some closed drainage system at the eastern limit of the project area near River Road.

There are limited pedestrian facilities along Goldsboro Road, typically serving only to connect bus stops to the side roads (several bus stops do not include sidewalk connections). The only significant continuous sidewalk facility is along the southern side of the roadway, from Tulip Hill Terrace, running east approximately a quarter mile to the bus stop east of Massachusetts Avenue. The only marked pedestrian crosswalk across Goldsboro Road within the Project Area is 1,000 feet west of River Road, and is located adjacent to an existing pedestrian crossing of Minnehaha Branch. There is a crosswalk across Goldsboro Road with curb ramps and detectable walking surfaces located at the intersection of Rannoch Road, but there are no pavement markings for this crosswalk.

X. Transit Services

The Goldsboro Road project area is served by Ride-On Route 29, which operates from Bethesda Metro Station to Friendship Heights Metro Center. Weekday services for the route are provided from approximately 5:45 AM to 10:00 PM. All buses are wheelchair accessible.

Ride-On Bus 29 at Goldsboro Rd. / Massachusetts Ave.

The existing bus route services eight stops on Goldsboro Road between MacArthur Boulevard and River Road, located on the north and south side of the roadway. Also, within the study area, there is one bus stop on MacArthur Boulevard (west side of traffic circle) and one bus stop on River Road (just north of Goldsboro Road). One bus stop on Goldsboro Road, just east of MacArthur Boulevard, and the bus stop on River Road include shelters. Existing bus stops are shown on **Figure 2** provides an inventory of the stops.

XI. ADA Standards and Compliance

The purpose of the Americans with Disabilities Act (July, 1990) is to ensure that no individual with a disability is excluded, denied services, segregated or otherwise treated differently than other individuals because of the absence of accommodations. In designing the Goldsboro Road bicycle and pedestrian improvements, accommodations will be included to make the public right-of-way accessible to all users. These accommodations will include sidewalks, pedestrian curb ramps and landings, and pedestrian refuges in any planned medians and crosswalks in compliance with the Maryland State Highway Administration's Accessibility Policy & Guidelines for Pedestrian Facilities along State Highways (June 2010).

XII. Summary

The following is a summary of existing conditions for the natural environment, cultural resources, community facilities and socio-economic resources within the Goldsboro Road study area:

- Highly erodible soils exist with the Baile soil series.
- One forest stand and ninety-four specimen trees were identified within the study area.
- There is one wetland area and two waters of the U.S. within the study area, including Minnehaha Branch (Use 1-P stream) that flows parallel to and crosses Goldsboro Road at two locations. Work within the stream would be restricted between March 1 and June 15 as a result of its Use 1-P status.
- No federal or state rare, threatened or endangered (RTE) species would be impacted by the proposed project.
- The only historic resource located within the study area is the Washington Aqueduct, located along MacArthur Boulevard with a control station within/below the traffic circle at Goldsboro Road. Impacts to this resource are not anticipated.
- Depending on the project's proposed improvements, there is a risk of cost impacts associated with subsurface hazardous material contamination associated with the Exxon gas station site at 6729 Goldsboro Road.
- Land use in the study area is primarily residential.
- The following utilities are located in the study area: gas, water, sewer, telecommunications, electric, and cable television.
- The existing roadway does not include designated bicycle lanes and pedestrian facilities are intermittent along the corridor. Eight Ride-On bus stops are located along the corridor.

XIII. References

BING Maps Aerial Imagery. 2012.

Federal Emergency Management Agency. 2001. *Q3 Flood Data; Montgomery County, Maryland*. National Flood Insurance Program Q3 Flood Data.

Maryland Department of Natural Resources. 1997. *State Forest Conservation Technical Manual,* Third Edition. Maryland Department of Natural Resources, Annapolis, MD.

Maryland Department of Natural Resources. 2005. *Geospatial Data.*

Maryland-National Capital Park & Planning Commission (M-NCPPC). 1994. *Trees, Approved Technical Manual*. M-NCPPC, Montgomery County, Maryland. Silver Spring, MD.

United States Army Corps of Engineers. 2012. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region Version 2.0,* ed. J.F. Berkowitz, J.S. Wakeley, R.W. Lichvar, and C.V. Noble. ERDC/EL TR-12-9. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

USDA, NRCS. 2007. *Soil Survey Geographic Database for Montgomery County, Maryland*.

United States Fish and Wildlife Service (USFWS). 2002. *National Wetlands Inventory Map for Montgomery County, Maryland*.

United States Geological Survey (USGS). 2011. *7.5 Minute Topographic Quadrangle, Falls Church, VA.*

United States Geological Survey (USGS). 2011. *7.5 Minute Topographic Quadrangle, Washington DC, West.*

Real Property database of the Maryland Department of Assessment & Taxation website.
http://sdat.resiusa.org/RealProperty/Pages/default.aspx
Accessed January 21, 2013.

USGS. 1965 (Photorevised 1979). *7.5 Minute Topographic Quadrangle, Falls Church, VA-MD.*

USGS. 1965 (Photorevised 1983, Bathymetry Added 1982). *7.5 Minute Topographic Quadrangle, Washington West, DC-MD-VA.*

Maryland -National Capital Park and Planning Commission, Montgomery County Department of Park and Planning. April 1990. *Comprehensive Amendment to Bethesda-Chevy Chase Master Plan.*

Maryland -National Capital Park and Planning Commission, Montgomery County Department of Park and Planning. March 2005. *Countywide Bikeways Functional Master Plan.*

Montgomery County Department of Transportation Ride On and Transit Services website. http://www.montgomerycountymd.gov/DOT-Transit/routesandschedules/allroutes/route029.html Accessed February 7, 2013.

Montgomery County Department of Environmental Protection website. http://www.montgomerycountymd.gov/dep/ Accessed January 24, 2013.

Montgomery Parks website. http://www.montgomeryparks.org/index.shtm Accessed January 23, 2013.

EPA Envirofacts System Database Searches http://www.epa.gov/enviro/ Accessed January 28, 2013.

APPENDIX

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont

Project/Site: Goldsboro Road City/County: Montgomery Sampling Date: 1/23/13

Applicant/Owner: Montgomery County DOT State: MD Sampling Point: W1-wet

Investigator(s): WMM/ESG Section, Township, Range: Glen Echo

Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): concave Slope (%): 1-2

Subregion (LRR or MLRA): MLRA 147 Lat: 38.9698 Long: 77.1374 Datum:

Soil Map Unit Name: Brinklow-Blocktown (16D) w/ Baile inclusions NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☐ No ☐

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ◉	No ○	**Is the Sampled Area within a Wetland?** Yes ☐ No ☐
Hydric Soil Present?	Yes ◉	No ○	
Wetland Hydrology Present?	Yes ◉	No ○	

Remarks:

Wetland extends outside of study area.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Drainage Patterns (B10)
- ☐ Moss Trim Lines (B16)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ Microtopographic Relief (D4)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☐ Depth (inches): _____

Water Table Present? Yes ☐ No ☐ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ☐ No ☐ Depth (inches): _____

Wetland Hydrology Present? Yes ◉ No ○

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Hydrology source is intermittent stream that flows through the center of the wetland. This small stream is conveyed across Goldsboro Road through 3 18" pipes that are blocked with leaf litter and debris. This pipe meets up with the mainstem of the Minnehana Branch on the eastbound side of Goldsboro Road.

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: W1-wet

Tree Stratum (Plot size: 10' R)	Absolute % Cover	Dominant Species?	Indicator Status
1. Acer negundo	50	Y	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	50	= Total Cover	

Sapling/Shrub Stratum (Plot size: 10' R)			
1. Rosa multiflora	40	Y	FACU
2. Acer negundo	20	Y	FAC
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	60	= Total Cover	

Herb Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
		= Total Cover	

Woody Vine Stratum (Plot size: 10' R)			
1. Euonymous fortunei	100	Y	NI
2.			
3.			
4.			
5.			
6.			
	100	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.66666666666666 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	0
FACW species		x 2 =	0
FAC species		x 3 =	0
FACU species		x 4 =	0
UPL species		x 5 =	0
Column Totals:	0 (A)		0 (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☐ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is ≤3.0[1]
- ☐ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ◉ No ○

Remarks: (Include photo numbers here or on a separate sheet.)

photos 3304 - 3309

SOIL

Sampling Point: W1-wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-9	10 YR 3/2	80	7.5 YR 5/6	20	C	PL	loam	
9-15	2.5Y 3/3	75	7.5 YR 5/6	25	C	M	sandy loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10) **(LRR N)**
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7)
- ☐ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ☐ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ☐ Umbric Surface (F13) **(MLRA 136, 122)**
- ☐ Piedmont Floodplain Soils (F19) **(MLRA 148)**

Indicators for Problematic Hydric Soils[3]:

- ☐ 2 cm Muck (A10) **(MLRA 147)**
- ☐ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ☐ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ☐ Red Parent Material (TF2)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ◉ **No** ○

Remarks:

Waters of the U.S. Data Sheet

Project: Goldsboro Rd		**Feature ID:** W2	**Stream Order:**
Date: 1/23/13	**State:** MD	**Photos:** 3285, 3286, 3303, 3310, 3314	
Crew: WMM/ESG	**County:** Mont Co	**Last Flag Number:** not flagged	

Feature Hydrologic Class (check one):

Tidal	Perennial	Intermittent (SNE)	Ephemeral (SNE)
○ TNW (Subject to ebb and flow)	○ TNW – Perennial (Flowing year round)	○ RPW – Seasonal (must flow at least 3 months a year)	○ Non-RPW draining uplands (*not jurisdictional*)
	◉ RPW – Perennial (Flowing year round)		○ Non-RPW erosional feature (*not jurisdictional*)
			○ Non-RPW with abutting wetland
			○ Non-RPW with adjacent wetland
			○ Non-RPW wetland adjacent or abutting upstream (outside of study area)

Describe rational for hydrologic class: Minnehana Branch

Feature Description: ***(check all that apply)***

Shape (with respect to top of bank)			Substrate			Vegetation
☐ Natural Channel Shape	Width: 10-15	Depth: 12-18"	☐ Silts	☐ Sands	☐ Muck	RB: Sycamore, knotweed, tulip poplar, beech, black locust,English ivy, spice bush, greenbrier, bamboo
☐ Artificial (man-made)	Bank Erosion/stability:		☐ Cobbles	☐ Gravel	☐ Other:	
☐ Manipulated (man-altered)	Moderate		☐ Bedrock	☐ Concrete		LB: same
☐ Other:	Side slope: ☐ 1:1(to *vertical*)	☐ 2:1 ☐ 3:1 ☐ 4:1(*or less*)				

Notes: River Rd end - more silt, sand, gravel ; MacArthur Blvd end - bedrock, cobble

Flow & Biological Characteristics: (*check all that apply*)

Surface Flow	Subsurface Flow	Biological Characteristics	
☐ Single channel – confined	☐ Yes	☐ Riparian corridor	*Habitat for:*
☐ Multiple/braided channels	☐ No	Type: forest Width: 10-100+'	☐ Federally listed species
☐ Poorly/undefined channel	☐ Unknown	☐ Wetland fringe	☐ Fish/spawn areas
☐ Overland Sheetflow			☐ Other environmentally sensitive areas

Notes: Some areas are channelized, gabions present; stream crosses under Goldsboro Rd 2x within study area

Non-tidal tributary has: (*check all that apply; include photos for each & list photo #)*

Bed and Banks	Ordinary High Water Mark			
☐ Yes	☐ Clear, natural line impressed on the bank	☐ Sediment deposition	☐ Sediment sorting	
☐ No	☐ Changes in the character of soil	☐ Water staining	☐ Scour	
	☐ Shelving	☐ Presence of litter and debris	☐ Observed/predicted flow events	
	☐ Vegetation matted down, bent, or absent	☐ Destruction of terrestrial veg.	☐ Abrupt change in plant community	
	☐ Leaf litter disturbed	☐ Presence of wrack line	☐ Other:	

Tidal tributary has: (*check all that apply; include photos for each & list photo #)*

High Tide Line	Mean High Water Mark indicated by:	Chemical Characteristics
☐ Oil or scum line along shore objects	☐ Survey to available datum	☐ Water is clear
☐ Fine shell or debris deposits (foreshore)	☐ Physical markings	☐ Water is discolored
☐ Physical markings/characteristics	☐ Vegetation lines/changes in types	☐ Oily film
☐ Tidal gauges		☐ Other:

Notes:

Waters of the U.S. Data Sheet

Project: Goldsboro Rd		**Feature ID:** W3	**Stream Order:**
Date: 1/23/13	**State:** MD	**Photos:** 3316	
Crew: WMM/ESG	**County:** Mont Co	**Last Flag Number:** W3-2b	

Feature Hydrologic Class (check one):

Tidal	Perennial	Intermittent (SNE)	Ephemeral (SNE)
○ TNW (Subject to ebb and flow)	○ TNW – Perennial (Flowing year round)	● RPW – Seasonal (must flow at least 3 months a year)	○ Non-RPW draining uplands (*not jurisdictional*)
	○ RPW – Perennial (Flowing year round)		○ Non-RPW erosional feature (*not jurisdictional*)
			○ Non-RPW with abutting wetland
			○ Non-RPW with adjacent wetland
Describe rational for hydrologic class:			○ Non-RPW wetland adjacent or abutting upstream (outside of study area)

Feature Description: ***(check all that apply)***

Shape (with respect to top of bank)		Substrate			Vegetation
☐ Natural Channel Shape	Width: 2-5' Depth: 6-10"	☐ Silts	☐ Sands	☐ Muck	RB: Box elder, beech, eng ivy, red maple, tulip poplar,
☐ Artificial (man-made)	Bank Erosion/stability:	☐ Cobbles	☐ Gravel	☐ Other:	
☐ Manipulated (man-altered)	Stable	☐ Bedrock	☐ Concrete		LB:
☐ Other:	Side slope: ☐ 1:1(to *vertical*) ☐ 2:1 ☐ 3:1 ☐ 4:1(*or less*)				
Notes: originates at 36" pipe that flows downstream into another 36" pipe that flows under Goldsboro rd to Minnehana Branch					

Flow & Biological Characteristics: (*check all that apply*)

Surface Flow	Subsurface Flow	Biological Characteristics	
☐ Single channel – confined	☐ Yes	☐ Riparian corridor	*Habitat for:*
☐ Multiple/braided channels	☐ No	Type: Forest Width: 10-50'	☐ Federally listed species
☐ Poorly/undefined channel	☐ Unknown	☐ Wetland fringe	☐ Fish/spawn areas
☐ Overland Sheetflow			☐ Other environmentally sensitive areas
Notes:			

Non-tidal tributary has: (*check all that apply; include photos for each & list photo #)*

Bed and Banks	Ordinary High Water Mark			
☐ Yes	☐ Clear, natural line impressed on the bank	☐ Sediment deposition	☐ Sediment sorting	
☐ No	☐ Changes in the character of soil	☐ Water staining	☐ Scour	
	☐ Shelving	☐ Presence of litter and debris	☐ Observed/predicted flow events	
	☐ Vegetation matted down, bent, or absent	☐ Destruction of terrestrial veg.	☐ Abrupt change in plant community	
	☐ Leaf litter disturbed	☐ Presence of wrack line	☐ Other:	

Tidal tributary has: (*check all that apply; include photos for each & list photo #)*

High Tide Line	Mean High Water Mark indicated by:	Chemical Characteristics
☐ Oil or scum line along shore objects	☐ Survey to available datum	☐ Water is clear
☐ Fine shell or debris deposits (foreshore)	☐ Physical markings	☐ Water is discolored
☐ Physical markings/characteristics	☐ Vegetation lines/changes in types	☐ Oily film
☐ Tidal gauges		☐ Other:
Notes:		

WALK-THROUGH FOREST STAND ANALYSIS

Forest Stand ID: FS1		**Project:** Goldsboro Road	
Owner/Applicant: Mont Co DOT		**State:** MD	**County:** Montgomery
Date: 1/21/13	**Prepared by:** WMM/ESG	**Photos:** 3283-3291; 3299-3303	

Type of Community: Tulip Poplar Association	**Forest Stand Area:**
Stand Successional Stage: ☐ **Early** ☐ **Mid** ☐ **Mature**	**Percent Canopy Closure:** ~70-80

Existing Vegetation

Dominant Species in Canopy: Sycamore, Tulip Poplar, Beech, N Red Oak, White Oak	**Size Class:** ☐ **2-6”** ☐ **6-11”** ☐ **12-20”** ☐ **20-30”** ☐ **>30”**	**Notes:**
Dominant Species in Understory: Black gum, Red Maple, Beech, Box Elder, Black Locust, Spicebush, White Mulberry		**Notes:**
Dominant Species in Herbaceous Layer: Japanese Honeysuckle, English Ivy, Multiflora Rose, Bamboo, Euonymous, Lesser Celandine, Poison Ivy, Greenbrier,		**Notes:**

Downed Woody Debris: ☐ **High** ☐ **Medium** ☐ **Low**	**Invasive Species Cover:** ☐ **High** ☐ **Medium** ☐ **Low**	**Invasive Species Present:** Japanese Honeysuckle, English Ivy, Multiflora Rose, Bamboo, Euonymous, Lesser Celandine,

General Stand Conditions:

Urban forest surrounding Goldsboro Road. Overall forest in fair condition. Areas of disturbance along road edges includes smaller trees (6-12"), that are often invasive species.

Goldsboro Road Photo Log 1/23/13

FS 1 (western end)

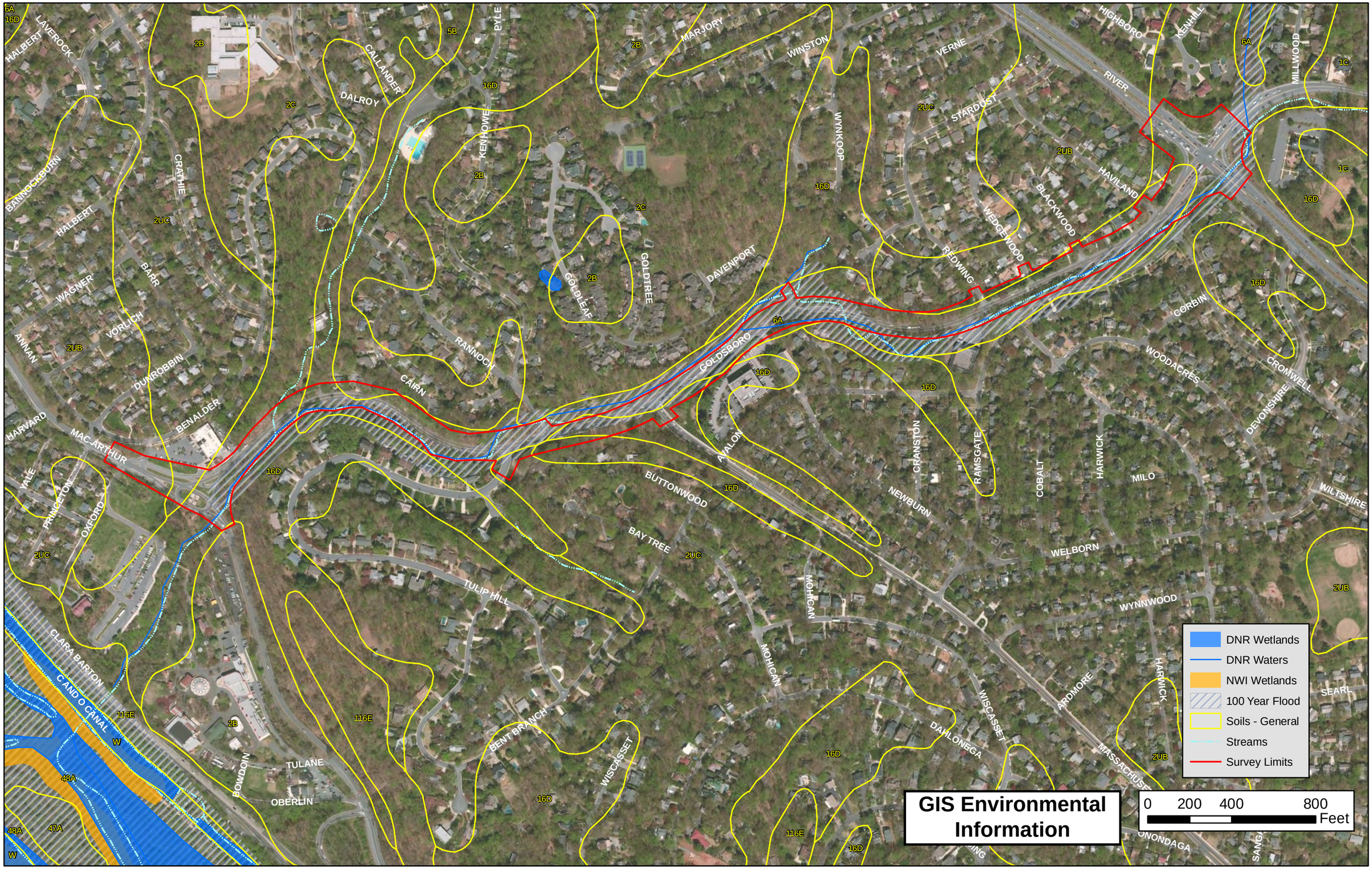
FS 1 (east end)

W1

W2 (western end)

W2 (eastern end)

W3


HALBERT
LAVEROCK
CALLANDER
DALROY
PYLE
KENHOWE
MARJORY
WINSTON
WYNKOOP
VERNE
HIGHBORO
KENHILL
MILLWOOD
RIVER
STARDUST
HAVILAND
BLACKWOOD
WEDGEWOOD
REDWING
DAVENPORT
GOLDTREE
GOLDLEAF
BANNOCKBURN
CRATHIE
BARR
WAGNER
VORLICH
ANNAN
DUNROBBIN
RANNOCH
CAIRN
GOLDSBORO
CORBIN
WOODACRES
CROMWELL
DEVONSHIRE
HARVARD
MAC-ARTHUR
BENALDER
YALE
PRINCETON
OXFORD
BUTTONWOOD
BAY TREE
AVALON
CRANSTON
RAMSGATE
COBALT
HARWICK
MILO
NEWBURN
WELBORN
WILTSHIRE
WYNNWOOD
TULIP HILL
MOHICAN
WISCASSET
DAHLONEGA
ARDMORE
MASSACHUSETTS
SEARL
ONONDAGA
CLARA BARTON
C AND O CANAL
BENT BRANCH
BOWDOIN
TULANE
OBERLIN
2B
2C
2UC
2UB
5B
16D
6A
1C
116E
48A
47A
W
DNR Wetlands
DNR Waters
NWI Wetlands
100 Year Flood
Soils - General
Streams
Survey Limits
0 200 400 800
Feet
GIS Environmental Information

81 Mosher Street | Baltimore, MD 21217 | P 410.728.2900 | T 800.787.3755 | www.rkk.com

December 19, 2012

Freedom of Information Officer
US EPA Region 3 (3CG00)
1650 Arch Street
Philadelphia, PA 19103-2029

RE: **Public Information Request**
Goldsboro Road (Maryland Route 614)
between MacArthur Boulevard and River Road
Bethesda, Maryland

To Whom It May Concern:

I am performing an environmental assessment of the Maryland State Highway referenced above. Please notify me, at your earliest convenience, if you have any information that may indicate the presence or release of subsurface contaminants or hazardous substances at the site area. Attached is a map showing the location of the site area for your convenience.

Thank you for your time and effort. If you have any questions, please contact our office at (410) 728-2900.

Sincerely,
Rummel, Klepper & Kahl, LLP

Ted Chadeayne
Geologist

Enclosure

81 Mosher Street | Baltimore, MD 21217 | P 410.728.2900 | T 800.787.3755 | www.rkk.com

December 19, 2012

Bob Hoyt, Department Director
Office of the Director
Montgomery County Department of Environmental Protection
255 Rockville Pike, Suite 120
Rockville, MD 20850

RE: **Public Information Request**
Goldsboro Road (Maryland Route 614)
between MacArthur Boulevard and River Road
Bethesda, Maryland

Dear Mr. Hoyt:

I am performing an environmental assessment of the Maryland State Highway referenced above. Please notify me, at your earliest convenience, if you have any information that may indicate the presence or release of subsurface contaminants or hazardous substances at the site area. Attached is a map showing the location of the site area for your convenience.

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Sincerely,
Rummel, Klepper & Kahl, LLP

Ted Chadeayne
Geologist

Enclosure

81 Mosher Street | Baltimore, MD 21217 | P 410.728.2900 | T 800.787.3755 | www.rkk.com

December 19, 2012

Montgomery County
Department of Permitting Services
255 Rockville Pike, 2nd Floor
Rockville, MD 20850-4166

RE: **Public Information Request**
Goldsboro Road (Maryland Route 614)
between MacArthur Boulevard and River Road
Bethesda, Maryland

To Whom It May Concern:

I am performing an environmental assessment of the Maryland State Highway referenced above. Please notify me, at your earliest convenience, if you have any information that may indicate the presence or release of subsurface contaminants or hazardous substances at the site area. Attached is a map showing the location of the site area for your convenience.

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Sincerely,
Rummel, Klepper & Kahl, LLP

Ted Chadeayne
Geologist

Enclosure

81 Mosher Street | Baltimore, MD 21217 | P 410.728.2900 | T 800.787.3755 | www.rkk.com

January 10, 2013

Attn: Barbara Moore
Office of Emergency Management and Homeland Security
100 Edison Park Drive, Suite 1S31
Gaithersburg, MD 20878

RE: **Public Information Request**
Goldsboro Road (Maryland Route 614)
between MacArthur Boulevard and River Road
Bethesda, Maryland

Dear Ms. Moore:

This letter is in response to your telephone message of January 7, 2013.

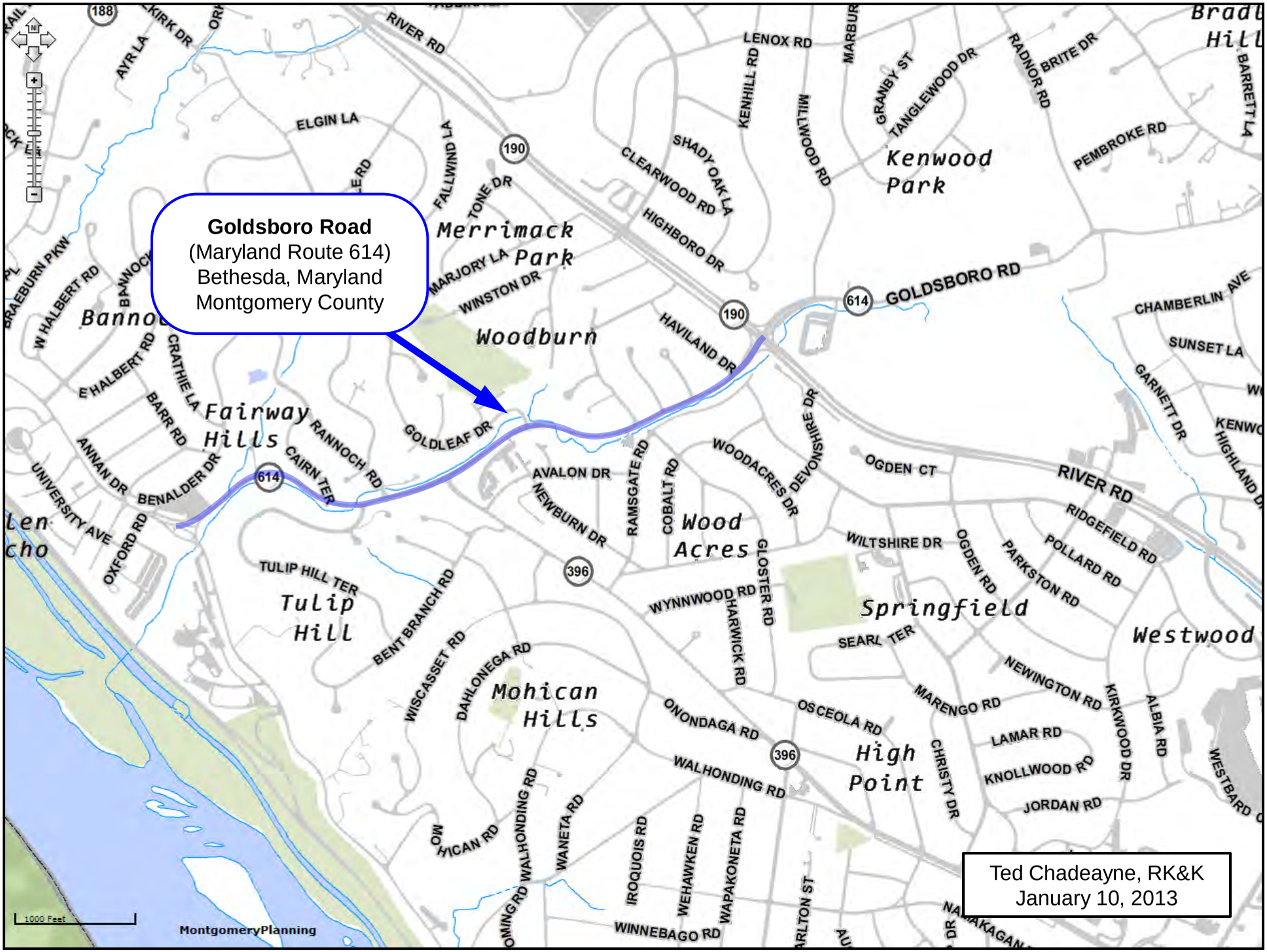
I am performing an environmental assessment of the Maryland State Highway referenced above. Please notify me, at your earliest convenience, if you have any information that may indicate the presence or release of subsurface contaminants or hazardous substances at the site area. Attached is a map showing the location of the site area for your convenience.

Thank you for your time and effort. If you have any questions, please contact our office at (410) 728-2900.

Sincerely,
Rummel, Klepper & Kahl, LLP

Ted Chadeayne
Geologist

Enclosure


Goldsboro Road
(Maryland Route 614)
Bethesda, Maryland
Montgomery County
GOLDSBORO RD
RIVER RD
Kenwood Park
Merrimack Park
Woodburn
Fairway Hills
Wood Acres
Springfield
Tulip Hill
Mohican Hills
High Point
Westwood
Ted Chadeayne, RK&K
January 10, 2013
1000 Feet
MontgomeryPlanning

MDE

MARYLAND DEPARTMENT OF THE ENVIRONMENT

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410-537-3000 • 1-800-633-6101 • http://www.mde.state.md.us

Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D
Secretary

December 18, 2012

DEC 19 2012

Mr. Ted Chadeayne
Rummel Klepper & Kahl LLP
81 Mosher Street
Baltimore MD 21217

RE: Tracking Number: 2012-52605
Request Received December 18, 2012

KENWOOD GOLF & COUNTRY CLUB
MERRIMACK PARK RECREATION ASSOCIATION
PROPERTY-TULANE AVE
PROPERTY - 6400 GOLDSBORO ROAD
EXXON - 6729 GOLDSBORO ROAD

Dear Mr. Chadeayne:

The Maryland Department of the Environment (MDE) received your recent request for information under the Public Information Act (PIA).

Your request has been assigned the tracking number listed above. Please use this number in all communications referring to this request.Your request has been reviewed and distributed to all appropriate MDE programs. After all programs have completed the search, you will be notified by mail as to whether or not pertinent records exist. If files exist, the notification letter will contain instructions for reviewing the records. Only after you schedule an appointment to review files will the requested files be gathered in preparation for your review.

There may be fees associated with the search whether or not files are located. The PIA fees are limited to standard charges for direct document search, review, duplication, and postage. The first two hours of search are free of charge. If your request did not indicate a willingness to pay fees, you will be notified only if the fees are likely to exceed $25.

When requesting information regarding this request, please cite the tracking number referenced above. If you have any questions, please call me at (410) 537-4120.

Sincerely,

Amanda Degen
PIA Coordinator
Other MDE Administrations

MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore, Maryland 21230
410-537-3000 • 1-800-633-6101 • http://www.mde.state.md.us

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Secretary

December 18, 2012

Mr. Ted Chadeayne
Rummel Klepper & Kahl LLP
81 Mosher Street
Baltimore MD 21217

RE: Tracking Number: 2012-52610
Request Received December 18, 2012

WALT WHITMAN HIGH SCHOOL

Dear Mr. Chadeayne:

The Maryland Department of the Environment (MDE) received your recent request for information under the Public Information Act (PIA).

Your request has been assigned the tracking number listed above. Please use this number in all communications referring to this request.Your request has been reviewed and distributed to all appropriate MDE programs. After all programs have completed the search, you will be notified by mail as to whether or not pertinent records exist. If files exist, the notification letter will contain instructions for reviewing the records. Only after you schedule an appointment to review files will the requested files be gathered in preparation for your review.

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Sincerely,

Amanda Degen
PIA Coordinator
Other MDE Administrations

MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore, Maryland 21230
410-537-3000 • 1-800-633-6101 • http://www.mde.state.md.us

MDE

Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D
Secretary

January 24, 2013

Mr. Ted Chadeayne
Rummel Klepper & Kahl LLP
81 Mosher Street
Baltimore MD 21217

RE: Tracking Number: 2012-52605
Request Received December 18, 2012

KENWOOD GOLF & COUNTRY CLUB
MERRIMACK PARK RECREATION ASSOCIATION
PROPERTY-TULANE AVE
PROPERTY - 6400 GOLDSBORO ROAD
EXXON - 6729 GOLDSBORO ROAD

Dear Mr. Chadeayne:

The Maryland Department of the Environment (MDE) received your recent request for information under the Public Information Act (PIA).

The Land Management Administration has information and data available on the site(s) listed above. Please call Maria Stephens at (410) 537-3422 to schedule an appointment for file review or to arrange for photocopies of all releasable materials. You will be invoiced for all applicable search, review, duplication and postage charges. It is requested that you make arrangements to review available files within 30 days of receipt of this letter. After 30 days your request will be closed and it will be necessary to file a new request.

When requesting information regarding this request, please cite the tracking number referenced above. If you have any questions, please call me at (410) 537-4120.

Sincerely,

Amanda Degen
PIA Coordinator
Other MDE Administrations

cc: Maria Stephens, Land Management Administration

MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore, Maryland 21230
410-537-3000 • 1-800-633-6101 • http://www.mde.state.md.us

MDE

Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D
Secretary

January 24, 2013

Mr. Ted Chadeayne
Rummel Klepper & Kahl LLP
81 Mosher Street
Baltimore MD 21217

RE: Tracking Number: 2012-52610
Request Received December 18, 2012

WALT WHITMAN HIGH SCHOOL

Dear Mr. Chadeayne:

The Maryland Department of the Environment (MDE) received your recent request for information under the Public Information Act (PIA).

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When requesting information regarding this request, please cite the tracking number referenced above. If you have any questions, please call me at (410) 537-4120.

Sincerely,

Amanda Degen
PIA Coordinator
Other MDE Administrations

cc: Maria Stephens, Land Management Administration

81 Mosher Street | Baltimore, MD 21217 | P 410.728.2900 | T 800.787.3755 | www.rkk.com

January 17, 2013

Ms. Lori Byrne
Wildlife and Heritage Division
Department of Natural Resources
580 Taylor Avenue
Tawes State Office Building, E-1
Annapolis, Maryland 21401

Project: **Goldsboro Road Bicycle and Pedestrian Improvements**
Montgomery County, Maryland

Subject: Request for Information on State Listed Rare, Threatened and Endangered Species

Dear Ms. Byrne:

We are providing engineering and environmental services to Montgomery County Department of Transportation to support Transportation Facility Planning Phase I for bicycle and pedestrian improvements along approximately one mile of Goldsboro Road (MD 614) between MacArthur Boulevard and River Road, west of Bethesda. The project will include evaluation of roadway widening and spot improvements along the existing 2-lane roadway to provide uniform shoulders, striping, and pavement markings of the master planned bike lanes and a 5-foot wide sidewalk. State and/or federal permits will be required during later project design stages if stream/wetland, wetland buffer, or floodplain impacts are proposed. In addition, on site resources coordination is required for the MD forest conservation approval.

We are requesting information regarding the potential presence of Maryland listed rare, threatened or endangered species within or near the project area. A map of the Project Area is enclosed to aid your review.

If you have any questions concerning this project and/or the information requested, please contact me at amorris@rkk.com or (410) 462-9349. Thank you for your assistance.

Sincerely,

Rummel, Klepper and Kahl, LLP

Alexis Morris

Alexis Morris
Environmental Planner

Encl.

cc: Patricia Shepherd, AICP (MCDOT)
Bill Morgante (RK&K)
Pat Martino, P.E. (RK&K)

MARYLAND
DEPARTMENT OF
NATURAL RESOURCES

Martin O'Malley, Governor
Anthony G. Brown, Lt. Governor
John R. Griffin, Secretary
Joseph P. Gill, Deputy Secretary

March 4, 2013

Ms. Alexis Morris
Rummel, Klepper & Kahl, LLP
81 Mosher Street
Baltimore, MD 21217

RE: Environmental Review for Goldsboro Road Bicycle and Pedestrian Improvements, Between MacArthur Boulevard and River Road, Montgomery County, Maryland.

Dear Ms. Morris:

The Wildlife and Heritage Service has determined that there are no State or Federal records for rare, threatened or endangered species within the boundaries of the project site as delineated. As a result, we have no specific comments or requirements pertaining to protection measures at this time. This statement should not be interpreted however as meaning that rare, threatened or endangered species are not in fact present. If appropriate habitat is available, certain species could be present without documentation because adequate surveys have not been conducted.

Thank you for allowing us the opportunity to review this project. If you should have any further questions regarding this information, please contact me at (410) 260-8573.

Sincerely,

Lori A. Byrne

Lori A. Byrne,
Environmental Review Coordinator
Wildlife and Heritage Service
MD Dept. of Natural Resources

ER# 2013.0152.mo

81 Mosher Street | Baltimore, MD 21217 | P 410.728.2900 | T 800.787.3755 | www.rkk.com

January 17, 2013

Mr. Roland Limpert
Maryland Department of Natural Resources
Environmental Review
Tawes State Office Building, E-1
580 Taylor Avenue
Annapolis, Maryland 21401

Project: **Goldsboro Road Bicycle and Pedestrian Improvements**
Montgomery County, Maryland

Subject: Request for Information on Project Area Fisheries Resources

Dear Mr. Limpert:

We are providing engineering and environmental services to Montgomery County Department of Transportation to support Transportation Facility Planning Phase I for bicycle and pedestrian improvements along approximately one mile of Goldsboro Road (MD 614) between MacArthur Boulevard and River Road, west of Bethesda. The project will include evaluation of roadway widening and spot improvements along the existing 2-lane roadway to provide uniform shoulders, striping, and pavement markings of the master planned bike lanes and a 5-foot wide sidewalk. State and/or federal permits will be required during later project design stages if stream/wetland, wetland buffer, or floodplain impacts are proposed. In addition, on site resources coordination is required for the MD forest conservation approval.

We are requesting information regarding the potential presence of state fisheries resources within or near the project area. A map of the Project Area is enclosed to aid your review.

If you have any questions concerning this project and/or the information requested, please contact me at amorris@rkk.com or (410) 462-9349. Thank you for your assistance.

Sincerely,

Rummel, Klepper and Kahl, LLP

Alexis Morris
Environmental Planner

Encl.

cc: Patricia Shepherd, AICP (MCDOT)
Bill Morgante (RK&K)
Pat Martino (RK&K)

Coordination Sheet for Maryland Department of Natural Resources, Environmental Review Unit information on fisheries resources, including anadromous fish, related to project locations and study areas

DATE OF REQUEST: **January 17, 2013**

PROJECT NAME AND LOCATION: **Goldsboro Road Bicycle and Pedestrian Improvements**
MacArthur Boulevard to River Road
Montgomery County, Maryland

NAME OF STREAM(S) (and MDE Use Classification) WITHIN THE STUDY AREA:
Unnamed tributary of Little Falls, Use I-P

SUB-BASIN (6 digit watershed): **02-14-02**

DNR RESPONSE (sections below to be completed by MD DNR):

____Generally, no instream work is permitted in Use I streams during the period of March 1 through June 15, inclusive, during any year.

____Where presence of yellow perch has been documented in the vicinity of an instream project area, generally no instream work is permitted in Use I and Certain Use II waters during the period of February 15 through June 15, inclusive, during any year.

____Generally, no instream work is permitted in Use III streams during the period of October 1 through April 30, inclusive, during any year.

____Generally, no instream work is permitted in Use IV streams during the period of March 1 through May 31, inclusive, during any year.

____Other applicable site specific time of year restriction information:

ADDITIONAL FISHERIES RESOURCE NOTES:

ADDITIONAL COMMENTS ON BEST MANAGEMENT PRACTICES:

MD DNR, Environmental Review Unit signature

_____-

DATE: ----------
PHONE: 410-260-8334

MARYLAND
DEPARTMENT OF
NATURAL RESOURCES

Martin O'Malley, Governor
Anthony G. Brown, Lt. Governor
John R. Griffin, Secretary
Joseph P. Gill, Deputy Secretary

13-MIS-139

February 6, 2013

Alexis Morris
Rummel, Klepper, and Kahl
81 Mosher Street
Baltimore, MD 21217

Subject: Fisheries Information for the Proposed Goldsboro Road Bicycle and Pedestrian Improvements, in Montgomery County, Maryland.

Dear Ms. Morris,

The above referenced project has been reviewed to determine fisheries species in the vicinity of the proposed project. The proposed activities include the Goldsboro Road bicycle and pedestrian improvements, between MacArthur Boulevard and River Road, in Montgomery County, Maryland.

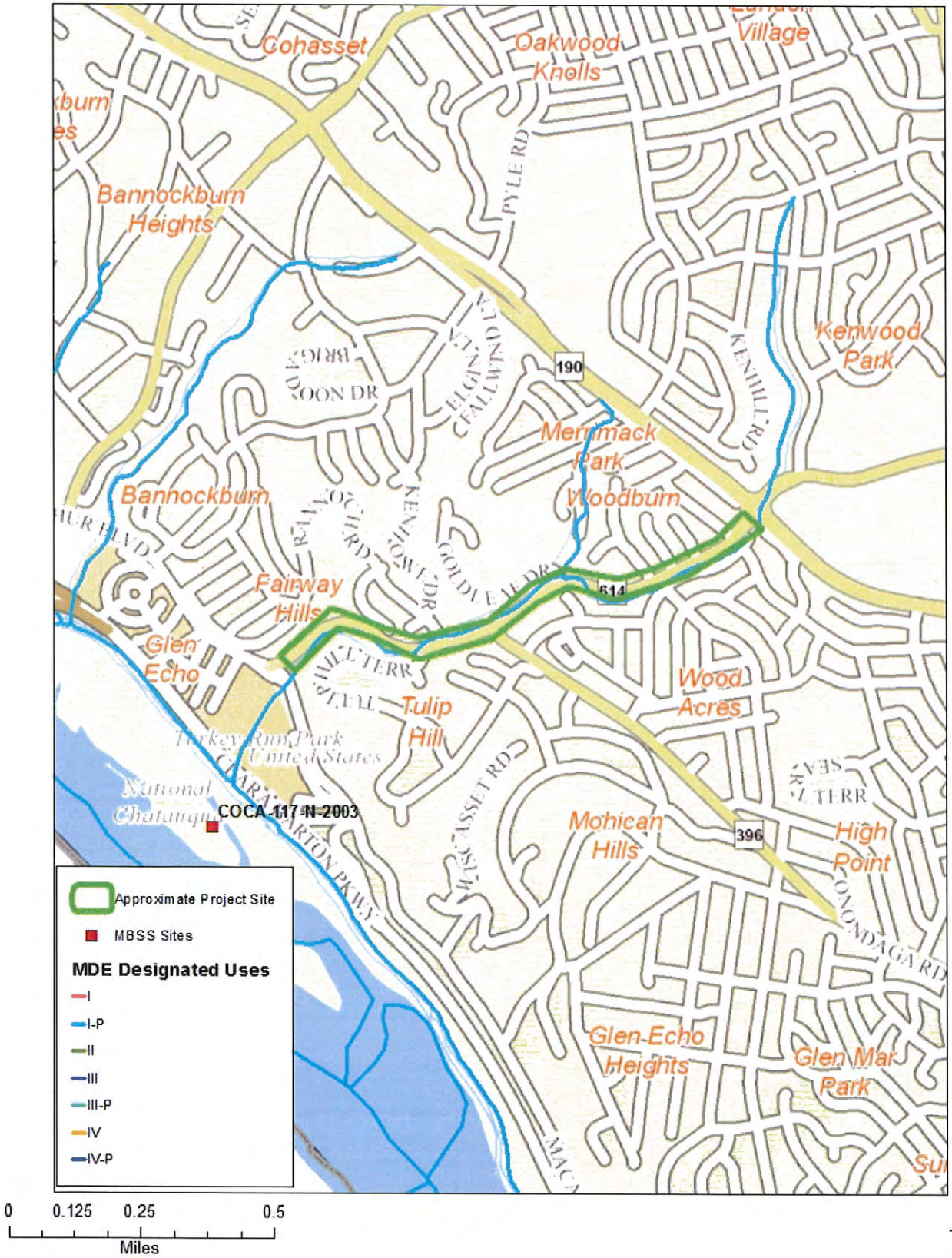
Minnehaha Branch (Washington Metropolitan River Basin) and tributaries near the site are classified as Use I-P streams (Water Contact Recreation, and Protection of Aquatic Life and Public Water Supply). Generally, no instream work is permitted in Use I streams during the period of March 1 through June 15, inclusive, during any year.

No anadromous fish have been documented near the project site. These streams may support many resident fish species documented by our Maryland Biological Stream Survey. However, there are no Maryland Biological Stream Survey (MBSS) stations near the project location. MBSS data can be accessed via the MDDNR web page at http://mdimap.towson.edu/streamhealth/, allowing access to resource surveys in neighboring tributaries.

If you have further questions, please contact the Environmental Review Program at 410-260-8799.

Sincerely,

Ken Yetman
Environmental Review Program


Cohasset
Oakwood Knolls
Village
Bannockburn Heights
PYLE RD
Kenwood Park
190
KENHILL RD
Merrimack Park
Woodburn
Bannockburn
Fairway Hills
614
Glen Echo
Tulip Hill
Wood Acres
Turkey Run Park
United States
National Chatanqua
COCA-117-N-2003
Mohican Hills
396
High Point
Approximate Project Site
MBSS Sites
MDE Designated Uses
I
I-P
II
III
III-P
IV
IV-P
Glen Echo Heights
Glen Mar Park
0
0.125
0.25
0.5
Miles
N

United States Department of the Interior
U.S. Fish & Wildlife Service
Chesapeake Bay Field Office
177 Admiral Cochrane Drive
Annapolis, MD 21401
410/573 4575

Endangered Species List Review

Today's date	January 16, 2013
Name	Alexis Morris
Company	RK&K
street address	81 Mosher Street
city, state, zip	Baltimore, MD 21217
email	amorris@rkk.com

My project is ***not*** located on one of the quad maps on the Chesapeake Bay Field Office web site.

Please send the endangered species and critical habitats list review to me at either the address above, or email a response. If additional information is required, please call me.

Project Location:

Street name	Goldsboro Road
City, state, zip	West of Bethesda, Maryland
County	Montgomery County
Lat & Long	38-58.197N, 77-07.771W

Proposed Construction/ Refurbishment Activity:
(Example: The proposed project is to build 100 rental units to replace apartments that were razed. This is Phase I of a larger residential development.)

We are providing engineering and environmental services to Montgomery County Department of Transportation to support Transportation Facility Planning Phase I for bicycle and pedestrian improvements along approximately one mile of Goldsboro Road (MD 614) between MacArthur Boulevard and River Road, west of Bethesda. The project will include evaluation of roadway widening and spot improvements along the existing 2-lane roadway to provide uniform shoulders, striping, and pavement markings of the master planned bike lanes and a 5-foot wide sidewalk. State and/or federal permits will be required during later project design stages if stream/wetland, wetland buffer, or floodplain impacts are

Enclosed are photographs (optional), either a location map or current topographic map, or a site map of the subject property.

United States Department of the Interior

FISH AND WILDLIFE SERVICE

Chesapeake Bay Field Office
177 Admiral Cochrane Drive
Annapolis, Maryland 21401
http://www.fws.gov/chesapeakebay

March 4, 2013

Ms. Alexis Morris
Environmental Planner
RK&K
81 Mosher Street
Baltimore, MD 21217

RE: Goldsboro Bicycle and Pedestrian Improvements - Montgomery County MD

Dear Ms. Morris:

This responds to your letter, received January 16, 2013, requesting information on the presence of species which are federally listed or proposed for listing as endangered or threatened within the vicinity of the above referenced project area. We have reviewed the information you enclosed and are providing comments in accordance with section 7 of the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*).

Except for occasional transient individuals, no federally proposed or listed endangered or threatened species are known to exist within the project impact area. Therefore, no Biological Assessment or further section 7 Consultation with the U.S. Fish and Wildlife Service is required. Should project plans change, or if additional information on the distribution of listed or proposed species becomes available, this determination may be reconsidered.

This response relates only to federally protected threatened or endangered species under our jurisdiction. For information on the presence of other rare species, you should contact Lori Byrne of the Maryland Wildlife and Heritage Division at (410) 260-8573.

Effective August 8, 2007, under the authority of the Endangered Species Act of 1973, as amended, the U.S. Fish and Wildlife Service (Service) removed (delist) the bald eagle in the lower 48 States of the United States from the Federal List of Endangered and Threatened Wildlife. However, the bald eagle will still be protected by the Bald and Golden Eagle Protection Act, Lacey Act and the Migratory Bird Treaty Act. As a result, starting on August 8, 2007, if your project may cause “disturbance” to the bald eagle, please consult the “National Bald Eagle Management Guidelines” dated May 2007.

If any planned or ongoing activities cannot be conducted in compliance with the National Bald

Eagle Management Guidelines (Eagle Management Guidelines), please contact the Chesapeake Bay Ecological Services Field Office at 410-573-4573 for technical assistance. The Eagle Management Guidelines can be found at: **http://www.fws.gov/migratorybirds/issues/BaldEagle/NationalBaldEagleManagementGuidelines.pdf.**

In the future, if your project can not avoid disturbance to the bald eagle by complying with the Eagle Management Guidelines, you will be able to apply for a permit that authorizes the take of bald and golden eagles under the Bald and Golden Eagle Protection Act, generally where the take to be authorized is associated with otherwise lawful activities.

An additional concern of the Service is wetlands protection. Federal and state partners of the Chesapeake Bay Program have adopted an interim goal of no overall net loss of the Basin's remaining wetlands, and the long term goal of increasing the quality and quantity of the Basin's wetlands resource base. Because of this policy and the functions and values wetlands perform, the Service recommends avoiding wetland impacts. All wetlands within the project area should be identified, and if construction in wetlands is proposed, the U.S. Army Corps of Engineers, Baltimore District, should be contacted for permit requirements. They can be reached at (410) 962-3670.

We appreciate the opportunity to provide information relative to fish and wildlife issues, and thank you for your interests in these resources. If you have any questions or need further assistance, please contact Trevor Clark at (410) 573-4527.

Sincerely,

Genevieve LaRouche
Supervisor

81 Mosher Street | Baltimore, MD 21217 | P 410.728.2900 | T 800.787.3755 | www.rkk.com

January 25, 2013

Mr. J. Rodney Little
State Historic Preservation Officer
Maryland Department of Planning
Maryland Historical Trust
100 Community Place
Crownsville, MD 21032-2023

Attn: Ms. Elizabeth Cole, Administrator
Project Review and Compliance

Project: Goldsboro Road Bicycle and Pedestrian Improvements
MacArthur Boulevard to River Road, Montgomery County, Maryland

Subject: Section 106 Consultation Initiation

Dear Ms. Cole:

On behalf of the Montgomery County Department of Transportation (MCDOT) and the U.S. Army Corps of Engineers (USACE), we are initiating consultation with the Maryland Historical Trust (MHT) regarding the Goldsboro Road Bicycle and Pedestrian Improvements project in Montgomery County, Maryland. The proposed project involves bicycle and pedestrian improvements along approximately one-mile of Goldsboro Road (MD 614) between MacArthur Boulevard and River Road, west of Bethesda (see attached maps). Although the project will be funded with county-only monies, it will require a permit from the USACE following Section 404 of the Clean Water Act. It is therefore considered an undertaking per Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations at 36 CFR Part 800.

Records Search

A records research was conducted at the MHT Library on January 21, 2013, to identify previously documented cultural resources and archaeological reports in the project vicinity:

Architectural Resources			
MHT#	*Name/Location Relative to Project*	*Description*	*NRHP Status*
M:35-31	Cabin John Right-of-Way (Brookmont Trolley Row) *Parallel to MacArthur Blvd., in close vicinity*	Unused street car right-of-way of the old Washington Railway and Electric Company's electric street railway to Cabin John, Maryland, dating to 1896.	Not previously evaluated
M:35-41	Glen Echo Park Historic District *South and southeast of Goldsboro Road and MacArthur Blvd. intersection*	Site of the late 19th century Chatauqua movement at Glen Echo, Maryland; a rare surviving regional example of an early 20th century amusement park of architectural and historical significance; and a major commercial and recreational facility for area residents and visitors from its	Listed-Criteria A and C

Architectural Resources			
		establishment in 1899 on the site of the short-lived Chautauqua until its closing in 1968.	
M:35-132	Small Structure No. 15078X0 *On Goldsboro Road over Minnehaha Creek, just west of Tulip Hill Terrace*	A circa 1933 ten-foot long, single span concrete slab with an open rail and standard abutments with horizontal scoring.	Not eligible
M:29-49	Washington Aqueduct *Below MacArthur Blvd.*	An early major public water supply system established in 1853 by the USACE and located within Montgomery County, MD and Washington, DC. Designed by architect-engineer Montgomery C. Meigs.	(1) *Listed*-Criteria A and C (2) *National Historic Landmark (NHL)*-Criteria 1 and 4 (3) *Eligible*-Criteria A and C-includes all NHL resources but expands the period of significance to 1939

Historic Archaeological Sites			
MHT#	*Name*	*Description*	*Finding*
18MO153	Glen Echo Chatauqua	19th century summer resort and early 20th century amusement park	Identified in archaeological report MO43
18MO166	Washington & Great Falls Electric Railroad Company	Late 19th to 20th century electric railroad bed, trolley line	Identified in archaeological report MO43

Archaeological Reports			
MHT#	*Author*	*Title*	*Date*
MO43	Katherine Franklin and Sarah Gregory	Report on a Reconnaissance Archeological Survey of Park Service Property Affected by the Rock Run WSSC Alternate Points of Discharge	December 1980
MO233	Stuart Fiedel, John Bedell, and Charles LeeDecker	Archeological Identification and Evaluation Study of C&O Canal National Historical Park Rock Creek to Sandy Hook (Mile Markers 0 to 59), Volumes I-III	December 2005

General Description of Project Vicinity

The proposed project area is located within a wooded suburban setting that includes:

1) Mostly residential housing developments (generally dating from the 1950s to 1980s) that face onto curved streets and cul-de-sacs, and are located on ground elevated above Goldsboro Road.

2) A shopping center, gas station, office building, telephone company office building, and church, generally from the 1950s and 1960s, are located along Goldsboro Road.

3) Various culverts for Minnehaha Branch run along and cross under Goldsboro Road, including an older rock face stone culvert near the southeast intersection of Goldsboro Road and MacArthur Boulevard.

The project is currently in Transportation Facility Planning Phase I as we initiate 35% design preliminary engineering to carry forward into Phase II. We will continue Section 106 consultation with MHT for this upcoming phase, which will include a more detailed description of the proposed improvements and a copy of the project plans.

We look forward to receiving any comments you may have at this time and consulting with you throughout the Section 106 process. By copy of this letter, we are also notifying The Maryland-National Capital Park and Planning Commission (M-NCPPC), Montgomery County Planning Department of this project and welcome any comments from them. Please contact me at ctaniguchi@rkk.com or 410-462-9147 if you require further information or clarification.

Sincerely,

Christeen Taniguchi
Senior Architectural Historian

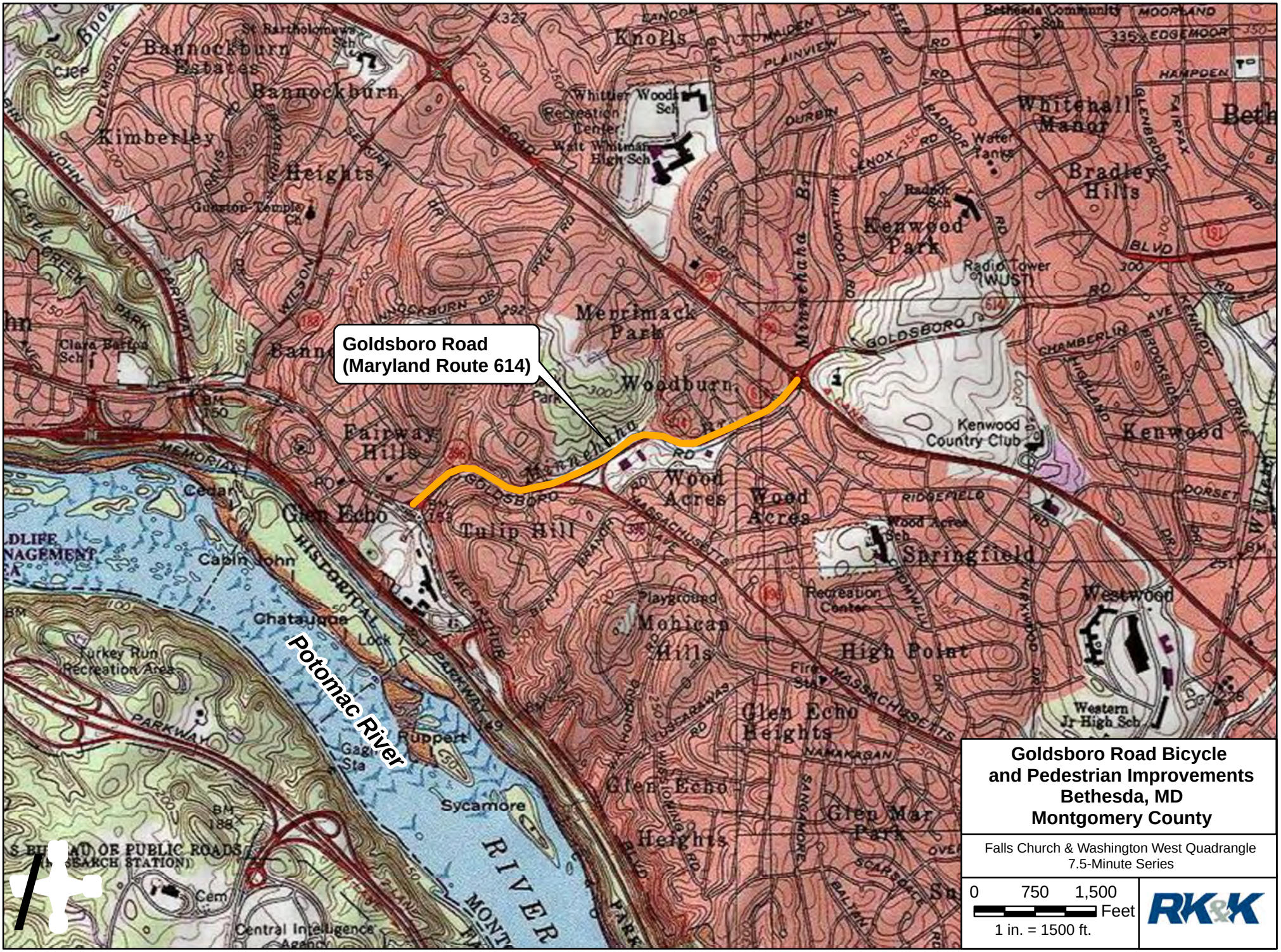
Attachments: Location Map and USGS Topo Map

cc: Mr. Joe DaVia, USACE
Ms. Patricia D. Shepherd, MCDOT
Mr. Scott Whipple, M-NCPPC, Montgomery County Planning Department
Mr. Pat Martino, RK&K, LLP

\\rkkm\V2008\2008\08122_mcboa\Task10 - Goldsboro Road\Cultural Resources\MHT Correspondence\Goldsboro Rd_MHT initiation_1 25 2013.pdf

Location Map

USGS Topo Map



Goldsboro Road Bicycle and Pedestrian Improvements
Bethesda, MD
Montgomery County

Falls Church & Washington West Quadrangle
7.5-Minute Series

0 750 1,500 Feet
1 in. = 1500 ft.

RK&K

Zimbra **amorris@rkk.com**

Fwd: Goldsboro Road Bicycle and Pedestrian Improvements

From : Christeen Taniguchi <ctaniguchi@rkk.com> **Thu, Feb 28, 2013 04:05 PM**

Subject : Fwd: Goldsboro Road Bicycle and Pedestrian Improvements

To : Alexis Morris <amorris@rkk.com>

Attached is MHT's formal response for the Goldsboro Road project correspondence.

From: "Tim Tamburrino" <TTamburrino@mdp.state.md.us>
To: "Christeen Taniguchi" <ctaniguchi@rkk.com>
Sent: Thursday, February 28, 2013 3:59:23 PM
Subject: Goldsboro Road Bicycle and Pedestrian Improvements

Christeen,
The Maryland Historical Trust (Trust) has reviewed your letter initiating consultation under Section 106 for Montgomery County's proposed improvements to Goldsboro Road near Glen Echo. We acknowledge that you have already conducted background research at the Trust's library to identify previously documented historic properties and review our reports. We will continue consultation once the project has been defined and project plans are available for our review. Once we are provided with a description of the project, we will be able to provide recommendations for survey work, if necessary, and determine the effect of the undertaking on historic properties. Please accept this email as the Trust's official response since we are unable to provide any substantial or meaningful comments regarding the proposed project until more information is available. We look forward to working with you as the project planning process continues.
Feel free to contact me if you have any questions.
Thanks,
Tim

Tim Tamburrino
Maryland Historical Trust / MDP
100 Community Place
Crownsville, MD 21032
410-514-7637 p
410-987-4071 f
ttamburrino@mdp.state.md.us
www.mht.maryland.gov
