## **MONTGOMERY COUNTY HISTORIC PRESERVATION COMMISSION STAFF REPORT**

Addresses:	16501 Norwood Road, Sandy Spring 16400 Layhill Road, Sandy Spring	Meeting Date:	3/20/2024
Resources:	Master Plan Site #28/14 Woodlawn Master Plan Site #23/119 Holland Store and House/Red Door Store	Report Date:	<del>3/13/2024</del> <u>3/15/2024</u>
Applicant:	Jose Thommana, MCDOT (Agent Rebecca Park, MCDOT)	Public Notice:	3/6/2024
<b>Reviews:</b>	HAWP	Tax Credit:	n/a
Permit #:	1060757 and 1060792	Staff:	Chris Berger
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**Proposal:** Shared-use path, lighting, and fence installation and fence relocation and stormwater management facility construction.

## **STAFF RECOMMENDATION**

Staff recommends that the Historic Preservation Commission (HPC) approve with two conditions the HAWP application with final approval of all details delegated to staff:

- 1. Applicant shall label the locations of the proposed lights on the plans.
- 2. Applicant shall provide a representative photo for all of the proposed stormwater management features and add their dimensions to the plans. Revised plans submitted 3/15/2024 met conditions.



Figure 1: The Holland Store and House/Red Door Store, shaded in red, is located to the west of Norwood Road, 1

and Woodlawn, also shaded in red, is to located to the east.

## **ARCHITECTURAL DESCRIPTION**

SIGNIFICANCE:	Individually Listed Master Plan Sites (Woodlawn, #28/14, and Holland Store and
	House/Red Door Store, #23/119)
STYLE:	Federal (Woodlawn) and Vernacular (Holland Store and House/Red Door Store)
DATE:	1800 with later additions (Woodlawn) and circa 1860 with later additions (Holland
	Store and House/Red Door Store)

Woodlawn is described as follows in *Places from the Past*:

One of the finest estates in the county dating from the early 1800s, Woodlawn includes a handsome brick mansion and a superb collection of outbuildings in a beautifully landscaped setting. The house was probably built either by Richard Thomas or his grandson, Samuel Jr., recipient of the property upon Richard's death in 1806. According to tradition, Samuel and Anna Thomas operated a Quaker boarding school at Woodlawn before 1819. Dr. William Palmer purchased the estate in 1825, moving to Montgomery County from Pennsylvania. Palmer was a founder of the Montgomery Mutual Fire Insurance Company.

The symmetrical front façade of the fivebay Federal style house features Flemish bond brick and a fanlight transom over the central entrance. William Palmer expanded the house with a kitchen wing. In 1881, his son, Benjamin Palmer, added the northwest wing. In 1832, master stonemason Isaac Holland built an exceptional three-story stone bank barn with four large roundarched openings on the basement level. The property also includes a combination dairy and smokehouse of stone, a log house, and board and batten tenant house. Grounds include significant mature trees, including an Osage Orange with 11-foot trunk circumference, 100-foot high American Linden, and a 1999 County Champion Norway Spruce.

The Holland Store and House is described as follows in *Places From the Past*:

One of three general stores still in operation in the county, the Holland Store was built about 1860 when James Holland purchased land for the purpose. Located at the intersection of roads to Baltimore and Olney, the store was at the heart of a community that became known as Holland's Corner. In 1889, James Holland was selected postmaster when the crossroads was issued a post office and was renamed Norwood. The structure was expanded to accommodate both the store and living space for the storekeeper.

## BACKGROUND

Montgomery County Department of Transportation (MCDOT) is constructing Phase 1 of the Heritage Triangle Trail along a 1,400 feet section of Doctor Bird Road starting at Olney-Sandy Spring Road (MD 108) heading to the south and a 1,700 foot-long section of Norwood Road starting at the intersection of Norwood Road with Layhill Road/Ednor Road and heading to the north. The mandatory referral documents state the following in regard to the cultural resources:

An archeological investigation was performed along the length of the project. Along the Norwood Road section, five shovel test pits identified a very low-density field scatter of seven artifacts, broadly dating from the late 18th to early 20th century. MHT determined that no additional Phase 2 archaeological investigations will be required and that the project will have no adverse effect on historic properties. MCDOT is continuing to coordinate with

MHT and the Montgomery Planning's Historic Preservation (HP) staff and is pursuing Historic Area Work Permits for Woodlawn Manor and the Red Door Store. The MHT advised that "MCDOT should exercise caution during design and construction of the undertaking to ensure that project construction activities, equipment, and staging areas avoid any disturbance to the Woodlawn Manor property outside the Area of Potential Effects (APE)." Additionally, any archeological findings uncovered during construction shall be shared with Parks Cultural Resources Staff.

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## **PROPOSAL**

MCDOT seeks to install a 10-foot wide asphalt shared-use path measuring approximately 1,600 square feet long in State Highway Administration right of way the length of the Woodlawn Master Plan Historic Site on the east side of Norwood Road (HAWP No. 1060757). The path will include a total of 14 lights measuring 12 feet tall to be installed in the grass buffer between the path and Norwood Road. An existing 4-foot-tall wood rail fence segment will be relocated farther to the east onto the Woodlawn property and a second fence will be installed along the path to the east. The new fence will match the existing fence in design and height.

Storm water management facilities will be constructed on both sides of Norwood Road. Aboveground work will be limited to the installation of grates on the Woodlawn side of the road. Two stormdrains and a 3-foot wide bioswale will be installed in State Highway Administration right of way on the opposite side of Norwood Road on the Holland Store and House/Red Door Store Master Plan Historic Site (HAWP No. 1060792). The bioswale will measure approximately 1,000 feet long.

## **APPLICABLE GUIDELINES**

## **Montgomery County Code Chapter 24A-8**

- (b) The commission shall instruct the director to issue a permit, or issue a permit subject to such conditions as are found to be necessary to ensure conformity with the purposes and requirements of this chapter, if it finds that:
  - (1) The proposal will not substantially alter the exterior features of an historic site or historic resource within an historic district; or
  - (2) The proposal is compatible in character and nature with the historical, archeological, architectural or cultural features of the historic site or the historic district in which an historic resource is located and would not be detrimental thereto or to the achievement of the purposes of this chapter; or
  - (4) The proposal is necessary in order that unsafe conditions or health hazards be remedied.

## Secretary of Interior's Standards for Rehabilitation

The Secretary of the Interior defines rehabilitation as "the act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features, which convey its historical, cultural, or architectural values." The relevant *Standards* are as follows:

- 2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.
- 9. New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportions, and massing to protect the integrity of the property and its environment.

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10. New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

## **STAFF DISCUSSION**

The path will be part of the Heritage Triangle Trail, a larger shared-use path project along Norwood Road that will result in a continuous path between MD 108 (Olney-Sandy Spring Road) and Ednor Road. The completed multi-modal connections will create a network of shared-use paths that will connect the Olney Theatre Center, the Sandy Spring Museum, the Woodlawn Visitor Center, and the Underground Railroad Experience. The paths will provide pedestrians and cyclists with a dedicated travel space where one does not exist.

The 10-foot wide path will be laid with asphalt. There will be a total of 14 lights along the segment. Each will be 12 feet tall, and the black fiberglass posts will hold a "Colonial" style post top with LED lights. Staff seeks a condition that the lights are labled on the provided plans. The lights are a safety enhancement to provide lighting for path users. The design of the posts match the existing lights on the Heritage Triangle Trail. The HPC at its February 21, 2024, meeting approved the same lights along the path at the Norwood (Master Plan Site #28/13) part of HAWP #1056978.

The existing 4-foot tall wood rail fence is about 15 feet from the edge of Norwood Road and is used to contain animals at the Woodlawn Manor Cultural Park. Once relocated it will be about 40 feet to the east of the road's edge. A second, matching fence will be installed to the east along the proposed path.

Storm water management facilities will be constructed on both sides of Norwood Road. At the Woodlawn Master Plan Historic Site, three grates will be installed; the remainder of the work on that side of the road will be underground. Work at the Holland Store and House/Red Door Store will result in the installation of two grates, two storm drains, and a linear, 3-foot wide bioswale. Staff seeks a condition that the applicant provide a representative photos of all storm water management features. Staff also seeks to have the dimensions of all the storm water facilities added to the site plan.

Staff supports the projects and recommends approval as conditioned. At its closest, the path will be approximately 400 feet from the manor house at the Woodlawn Master Plan Historic Site. The bioswale will be about 100 feet from the Red Door Store, and the nearest stormdrain will be approximately 250 feet away. In conformance with Chapter 24A-8(b), the proposal will not substantially alter the exterior features of the historic sites, and it is compatible in character with the sites. The path will also create a safer travel route for pedestrians and cyclists along Norwood Road. In accordance with the applicable Secretary of the Interior Standards, the historic character of the properties will be retained and preserved and no historic features or spaces that characterize the properties will result. No historic materials, features, and spatial relationships that characterize the property will be destroyed. Finally, the the essential form and integrity of the historic property and its environment would be unimpaired if the new construction is removed.

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Figure 2: The existing right of way at the Woodlawn Master Plan Historic Site facing south along Norwood Road. The Red Door Store is in the background indicated with a red arrow. The existing fence will be relocated and the shared-use path will be installed in its location.

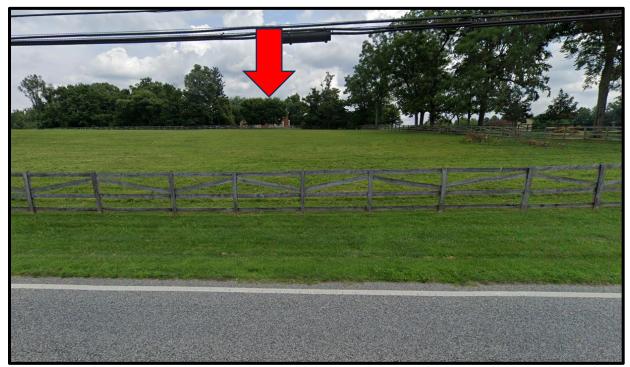


Figure 3: The Woodlawn Manor House is indicated with a red arrow. It is located about 400 feet from the Norwood Road right of way. The shared-use path will be installed where the fence is currently located. Source: Google

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Figure 4: This culvert near the Woodlawn Master Plan Historic Site will be replaced with a stormdrain.

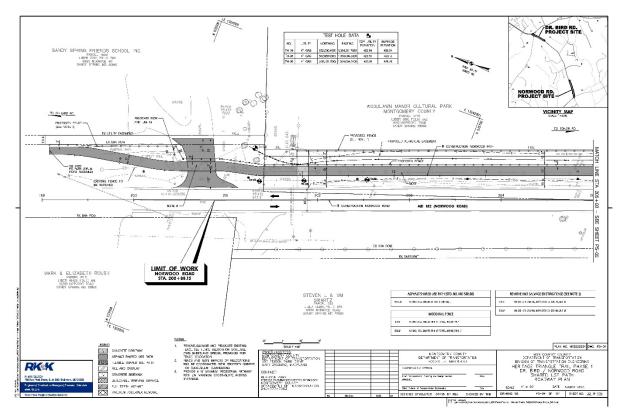


Figure 5: Plan Sheet 1 of 4 for the shared-used path and stormwater management facilities along Norwood Road.

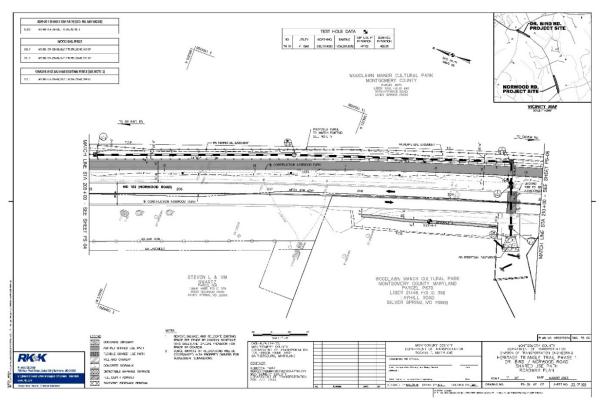


Figure 6: Plan Sheet 2 of 4 for the shared-used path and stormwater management facilities along Norwood Road.

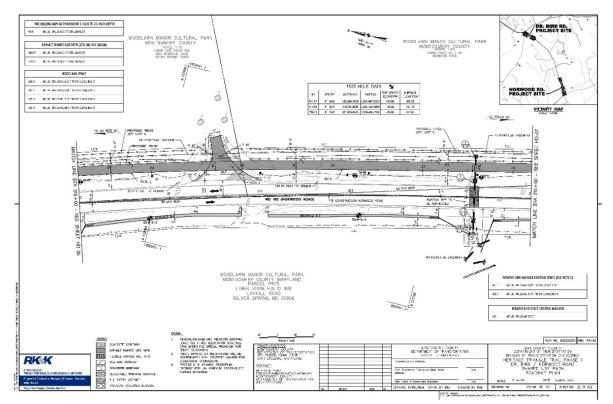


Figure 7: Plan Sheet 3 of 4 for the shared-used path and stormwater management facilities along Norwood Road.

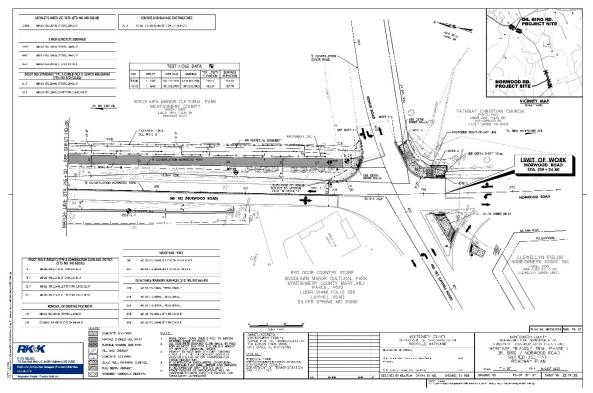


Figure 8: Plan Sheet 4 of 4 for the shared-used path and stormwater management facilities along Norwood Road.



Figure 9: This representative photo provided by the applicant shows the shared-use path at the Norwood Mansion Master Plan Historic Site. The same type of path will be installed at the Woodlawn Master Plan Site. Source: Google



Figure 10: The applicant provided this representative photo to show a bioswale similar to what will be installed at the Red Door Store Master Plan Historic Site.

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## **STAFF RECOMMENDATION**

Staff recommends that the Commission approve with two conditions the HAWP application

- 1. Applicant shall label the locations of the proposed lights on the plans.
- 2. Applicant shall provide a representative photo for all of the proposed stormwater management features and add their dimensions to the plans. Revised plans submitted 3/15/2024 met conditions.

under the Criteria for Issuance in Chapter 24A-8(b)(1),(2), and (4), having found that the proposal will not substantially alter the exterior features of the historic sites and is compatible in character with the district and the purposes of Chapter 24A;

and with the Secretary of the Interior's Standards for Rehabilitation # 2, 9, and 10;

and with the general condition that the applicant will obtain all other applicable Montgomery County or local government agency permits. After the issuance of these permits, the applicant must contact this Historic Preservation Office if any changes to the approved plan are made;

and with the general condition that final project design details, not specifically delineated by the Commission, shall be approved by HPC staff or brought back to the Commission as a revised HAWP application at staff's discretion;

and with the general condition that the applicant shall notify the Historic Preservation Staff if they propose to make any alterations to the approved plans. Once the work is completed the applicant will <u>contact the staff person</u> assigned to this application at 301-495-4571 or <u>chris.berger@montgomeryplanning.org</u> to schedule a follow-up site visit.

			FOR STAFF ONLY:
SCOMERY COL			HAWP# <u>1060757</u> Date assigned
HISTOR	PPLICATION IC AREA WO DRIC PRESERVATION 301.563.3400		RMIT
APPLICANT:			
Name:		E-mail:	
Address:		City:	Zip:
Daytime Phone:		Tax Account	No.:
AGENT/CONTACT (if applicable)	):		
Name:		E-mail:	
Address:		City:	Zip:
Daytime Phone:		Contractor R	egistration No.:
LOCATION OF BUILDING/PREM	ISE: MIHP # of Historio	c Property	
Is the Property Located within an			
Is there an Historic Preservation/I map of the easement, and docum	Land Trust/Environme	ntal Easemen	ite Name t on the Property? If YES, include a supporting this application.
Are other Planning and/or Hearing (Conditional Use, Variance, Record supplemental information.			
Building Number:	Street:		
Town/City:	Nearest Cross	s Street:	
Lot: Block:	Subdivision: _	Parce	l:
TYPE OF WORK PROPOSED: See for proposed work are submit		-	
be accepted for review. Check a			Shed/Garage/Accessory Structure
New Construction	Deck/Porch		Solar
Addition	Fence		Tree removal/planting
Demolition	Hardscape/Lands	саре	Window/Door
Grading/Excavation	Roof		Other:
I hereby certify that I have the au	Ithority to make the fo	regoing applic	ation, that the application is correct
agencies and hereby acknowledg	ge and accept this to b	e a condition	-
Jose Thommana	·		

Signature of owner or authorized agent

# HAWP APPLICATION: MAILING ADDRESSES FOR NOTIFING

[Owner, Owner's Agent, Adjacent and Confronting Property Owners]

Owner's mailing address	Owner's Agent's mailing address
Adjacent and confronting	Property Owners mailing addresses

Description of Property: Please describe the building and surrounding environment. Include information on significant structures, landscape features, or other significant features of the property:

Description of Work Proposed: Please give an overview of the work to be undertaken:

Vork Item 1:				
Description of Current Condition:	Proposed Work:			
Work Item 2:				
Description of Current Condition:	Proposed Work:			

Work Item 3:		
Description of Current Condition:	Proposed Work:	

## HISTORIC AREA WORK PERMIT CHECKLIST OF APPLICATION REQUIREMENTS

	Required Attachments						
Proposed Work	I. Written Description	2. Site Plan	3. Plans/ Elevations	4. Material Specifications	5. Photographs	6. Tree Survey	7. Property Owner Addresses
New Construction	*	*	*	*	*	*	*
Additions/ Alterations	*	*	*	*	*	*	*
Demolition	*	*	*		*		*
Deck/Porch	*	*	*	*	*	*	*
Fence/Wall	*	*	*	*	*	*	*
Driveway/ Parking Area	*	*		*	*	*	*
Grading/Exc avation/Land scaing	*	*		*	*	*	*
Tree Removal	*	*		*	*	*	*
Siding/ Roof Changes	*	*	*	*	*		*
Window/ Door Changes	*	*	*	*	*		*
Masonry Repair/ Repoint	*	*	*	*	*		*
Signs	*	*	*	*	*		*

		For Staf	F ONLY: 1060792
SCOMERY COL			IGNED
	PLICATION F AREA WOR PRESERVATION COM 301.563.3400	K PERMIT	
APPLICANT:			
Name:	E-m	ail:	
Address:	City	:	Zip:
Daytime Phone:	Tax	Account No.:	
AGENT/CONTACT (if applicable):			
Name:	E-m	ail:	
Address:	City	:	Zip:
Daytime Phone:	Con	tractor Registration No	D.:
LOCATION OF BUILDING/PREMISE	MIHP # of Historic Pro	perty	
Is the Property Located within an Hist			
Is there an Historic Preservation/Lan	,	dividual Site Name	
map of the easement, and document	-	-	-
Are other Planning and/or Hearing Ex (Conditional Use, Variance, Record Pl supplemental information.	•• •		
Building Number:	Street:		
Town/City:	Nearest Cross Str	eet:	
Lot: Block:	Subdivision:	Parcel:	
TYPE OF WORK PROPOSED: See the for proposed work are submitted	with this application	. Incomplete Applica	tions will not
be accepted for review. Check all t New Construction	Deck/Porch	Solar	e/Accessory Structure
Addition	Fence	Tree remova	al/planting
Demolition	Hardscape/Landscape		
Grading/Excavation	Roof	,	
I hereby certify that I have the autho	rity to make the forego	ing application. that th	e application is correct
and accurate and that the construct		• • • •	
agencies and hereby acknowledge a	and accept this to be a d	condition for the issuar	nce of this permit.
Jose Thommana			

Signature of owner or authorized agent

# HAWP APPLICATION: MAILING ADDRESSES FOR NOTIFING

[Owner, Owner's Agent, Adjacent and Confronting Property Owners]

Owner's mailing address	Owner's Agent's mailing address
Adjacent and confronting	Property Owners mailing addresses

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Vork Item 1:				
Description of Current Condition:	Proposed Work:			
Work Item 2:				
Description of Current Condition:	Proposed Work:			

Work Item 3:		
Description of Current Condition:	Proposed Work:	

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New Construction	*	*	*	*	*	*	*
Additions/ Alterations	*	*	*	*	*	*	*
Demolition	*	*	*		*		*
Deck/Porch	*	*	*	*	*	*	*
Fence/Wall	*	*	*	*	*	*	*
Driveway/ Parking Area	*	*		*	*	*	*
Grading/Exc avation/Land scaing	*	*		*	*	*	*
Tree Removal	*	*		*	*	*	*
Siding/ Roof Changes	*	*	*	*	*		*
Window/ Door Changes	*	*	*	*	*		*
Masonry Repair/ Repoint	*	*	*	*	*		*
Signs	*	*	*	*	*		*



Photo 1: Woodlawn property and proposed SUP location, looking southeast from intersection of Norwood Road and Excalibur Way (RK&K, March 2021)



Photo 2: Proposed SUP location, looking southeast from northern limits of Woodlawn property (RK&K, March 2021)





Photo 3: Proposed SUP location, looking southeast from just north of the Woodlawn driveway (RK&K, March 2021)



Photo 4: Existing culvert at north end of Woodlawn property (RK&K, March 2021)



Photo 5: Woodlawn driveway and northern sign, looking north from the driveway (RK&K, March 2021)



Photo 6: Woodlawn driveway and southern sign, looking north from the driveway (RK&K, March 2021)



Photo 7: Existing culvert south of driveway, looking southwest to the Red Door Store Property (RK&K, March 2021)



Photo 8: Proposed SUP location, looking northwest from southern limits of Woodlawn property (RK&K, March 2021)



Photo 9: View of existing SUP south of Ednor Road, looking southeast from the Red Door Store property (RK&K, March 2021)



Photo 1: Existing SUP along Norwood Road, looking southeast from north of Hennessy Terrace, similar to what will be installed along the Woodlawn property (Google Street View, November 2022)



Photo 2: Existing SUP along Norwood Road, looking north from just north of Hennessy Terrace at Norwood, similar to what will be installed along Woodlawn (Google Street View, November 2022)



Photo 3: Existing SUP along Norwood Road, looking north from Hennessy Terrace, similar to what will be installed along Woodlawn (Google Street View, November 2022)

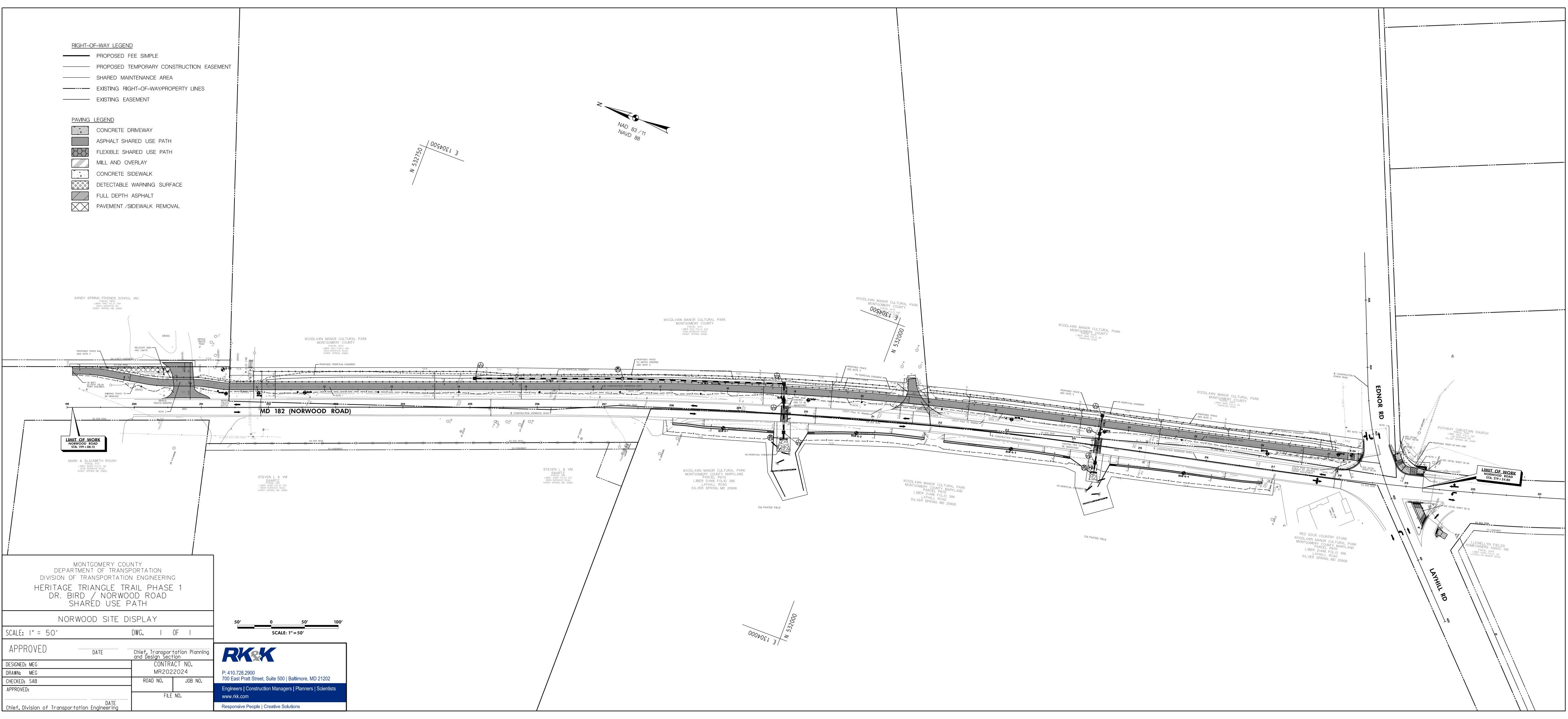


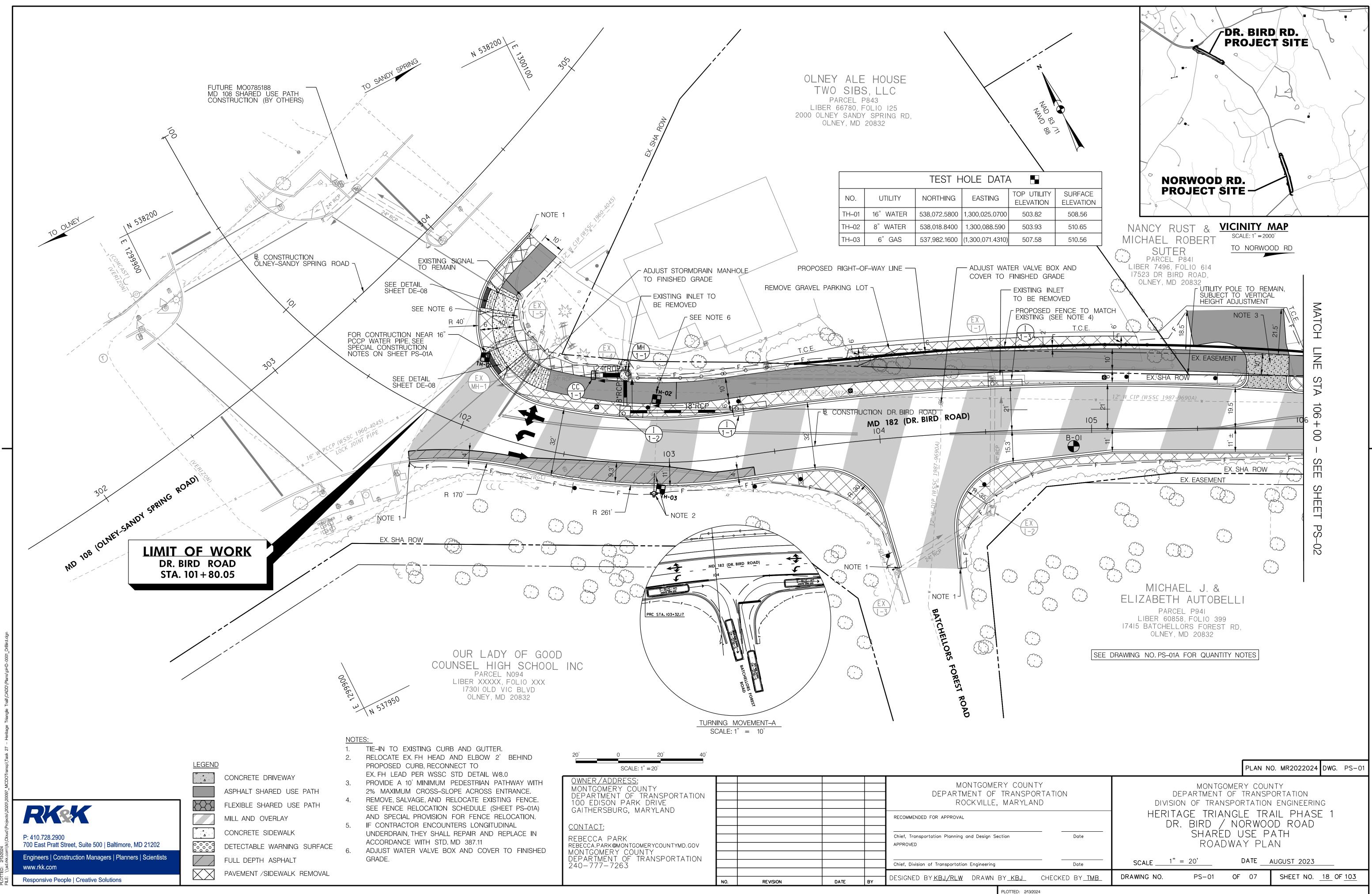
Photo 4: Image of bioswale similar to what is proposed on the Red Door Store property (RKK Photo)

Woodlawn and Red Door Store HAWP Applications Supplemental Photos



Photo 5: Image of bioswale similar to what is proposed on the Red Door Store property (RK&K photo)





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## FINE MILLING ASPHALT PAVEMENT 1 INCH TO 2.5 INCH DEPTH

1600 SY MD 182 - STA. 101+80 TO STA. 106+00

264.65	NAD 400 CTA 204 02 DT TO CTA 204 20 DT
261 SF	MD 108 - STA. 304+03, RT TO STA. 304+30, RT

3306 SF MD 182 - STA. 102+34, LT TO STA. 105+73, LT

69 SF MD 182 - STA. 105+93, LT TO STA. 106+00, LT

# 5 INCH CONCRETE SIDEWALK

683 SF	MD 182 - STA. 101+82, LT TO STA. 102+34, LT
44 SF	MD 182 - STA. 102+72, LT TO STA. 102+78, LT

# DETECTABLE WARNING SURFACES (STD\_NO\_MD 655 40)

	(STD. NO. MD 655.40)
20 SF	MD 108 - STA. 303+90, RT TO STA. 303+99, RT
23 SF	MD 182 - STA. 101+97, LT TO STA. 102+09, LT

	REMOVAL OF EXISTING PAVEMENT
3 CY	MD 108 - STA. 304+00, RT TO STA. 304+18, RT
4 CY	MD 182 - STA. 101+85, LT TO STA. 102+03, LT
50 CY	MD 182 - STA. 102+11, LT TO STA. 105+72, LT
3 CY	MD 182 - STA. 102+60, LT TO STA. 103+27, LT
1 CY	MD 182 - STA. 105+93, LT TO STA. 106+00, LT
17 CY	MD 182 - STA. 103+38, RT TO STA. 104+00, RT
28 CY	MD 182 - STA. 104+34, RT TO STA. 106+00, RT
-	

# 6 INCH PORTLAND CEMENT CONCRETE PAVEMENT, MDOT SHA MIX 9, FOR DRIVEWAYS AND DRIVEWAY APRONS 37 SY MD 182 - STA. 105+71, LT TO STA. 105+94, LT

REMO	VE AND SALVAGE EXISTING FENCE (SEE SHEET HD-01 NOTE 5)
95 LF	MD 182 - STA. 102+83, 44.84' LT TO STA. 103+84, 36.02' LT
146 LF	MD 182 - STA. 104+41, 31.38' LT TO STA. 105+35, 39.35' LT

# WOOD RAIL FENCE

- 251 LF MD 182 STA. 102+83, 39.67' LT TO STA. 105+35, 39.35' LT

P: 410.728.2900 700 East Pratt Street, Suite 500 | Baltimore, MD 21202 Engineers | Construction Managers | Planners | Scientists www.rkk.com

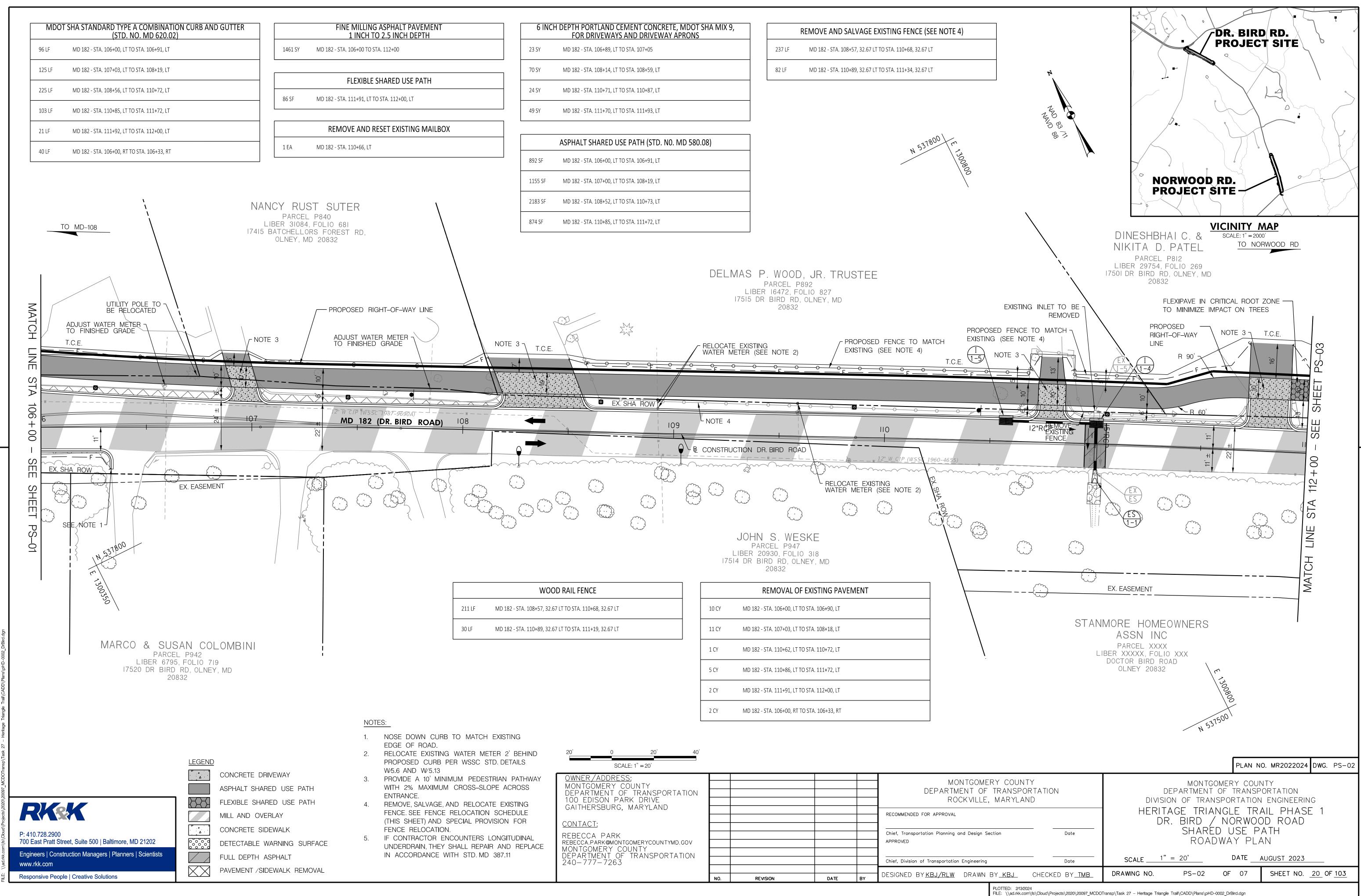
Responsive People | Creative Solutions

MDOT S	SHA STANDARD TYPE A COMBINATION CURB AN (STD. NO. MD 620.02)
441 LF	MD 182 - STA. 101+82, LT TO STA. 105+73, LT
12 LF	MD 182 - STA. 105+93, LT TO STA. 106+00, LT
262 LF	MD 182 - STA. 101+84, RT TO STA. 104+05, RT
202 LF	MD 182 - STA. 104+33, RT TO STA. 106+00, RT
	REMOVE AND RESET EXISTING MAILBOX
1 EA	MD 182 - STA. 102+79, 41.0' LT
	REMOVAL OF EXISTING SIDEWALK
2 CY	MD 108 - STA. 304+04, RT TO STA. 304+29, RT
6 CY	MD 182 - STA. 102+03, LT TO STA. 102+74, LT
	REMOVAL OF GRAVEL PARKING LOT
81 SY	MD 182 - STA. 103+90, 44.0' LT TO STA. 105+21, 44.0' LT

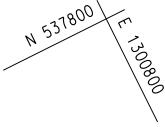
RB AND GUTTER	<ul> <li>SPECIAL CONSTRUCTION REQUIREMENTS FOR WORK PERFORMED IN THE VIOINTY OF EXISTING FOOP WATER MAINS February 2021 version</li> <li>CONSTRUCTION OF DESIGNATION THE LOSS SERVICE MAINS February 2021 version</li> <li>CONSTRUCTION OF DESIGNATION THE LOSS SERVICE MAINS February 2021 version</li> <li>Webscher Kuhler Construction 402 dawn sellul to the existence international science of the Accel Mains and Construction 402 dawn sellul to the existence of the Accel Mains and the Main Mains and Activity and Construction 402 dawn sellul to the existence of the Accel Mains and the Main Mains and Activity and Construction 402 dawn sellul to the existence of the Accel Mains and the Main Mains and Activity and Construction and Construling and Construction and Construction and Construction and C</li></ul>	Image: Construction of the second
	20' 0 20' 40' SCALE: 1" = 20' OWNER/ADDRESS: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE	PLAN NO. MR2022024 DWG. PS-01A MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DWISION OF TRANSPORTATION
	100 EDISON PARK DRIVE       ROCKVILLE, MARYLAND         GAITHERSBURG, MARYLAND       RECONMENDED FOR APPROVAL	DIVISION OF TRANSPORTATION ENGINEERING HERITAGE TRIANGLE TRAIL PHASE 1

20' 0 20' 40'									
SCALE: 1" = 20'								PLAN N	NO. MR2022024 DWG. PS-01
OWNER/ADDRESS: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE GAITHERSBURG, MARYLAND					MONTGOMERY COUN DEPARTMENT OF TRANSPO ROCKVILLE, MARYLA	ORTATION	DEPARTMEN DIVISION OF TRA		PORTATION N ENGINEERING
<u>CONTACT:</u>					RECOMMENDED FOR APPROVAL		HERITAGE TRI DR. BIRD	/ NORWO	od road
REBECCA PARK rebecca.park@montgomerycountymd.gov Montgomery county					Chief, Transportation Planning and Design Section APPROVED	Dote		SHARÈD USE P Roadway pla	
DEPARTMENT OF TRANSPORTATION 240-777-7263					Chief, Division of Transportation Engineering	Dote	SCALE1" = 20'	DATE	AUGUST 2023
	NO.	REVISION	DATE	BY	DESIGNED BY <u>kbj/rlw</u> drawn by <u>kbj</u>	CHECKED BY <u>TMB</u>	DRAWING NO. PS-01A	OF 07	SHEET NO. <u>19</u> OF <u>103</u>

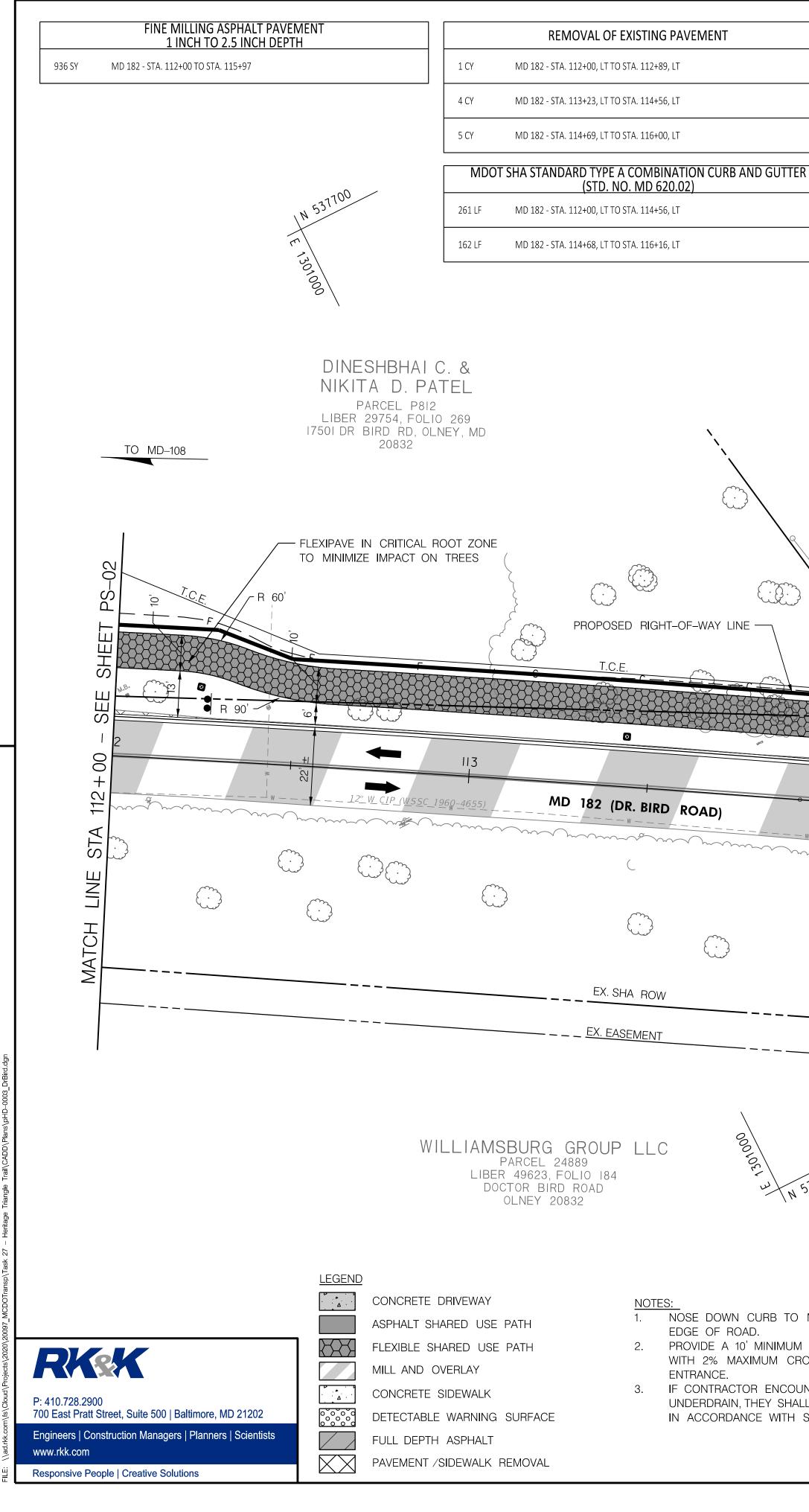
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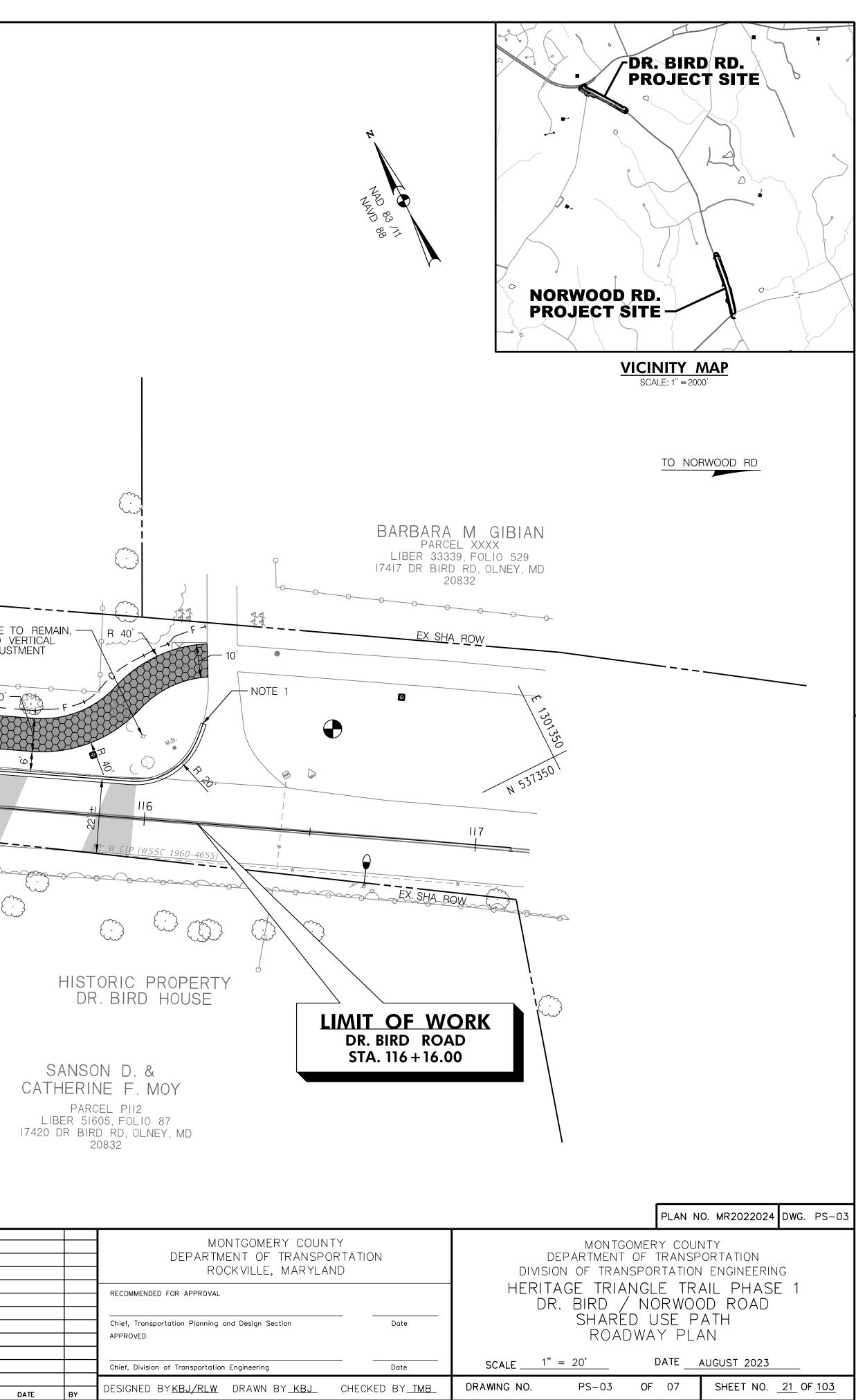
6 INC	H DEPTH PORTLAND CEMENT CONCRETE, MDOT SHA MIX 9 FOR DRIVEWAYS AND DRIVEWAY APRONS
23 SY	MD 182 - STA. 106+89, LT TO STA. 107+05
70 SY	MD 182 - STA. 108+14, LT TO STA. 108+59, LT
24 SY	MD 182 - STA. 110+71, LT TO STA. 110+87, LT
49 SY	MD 182 - STA. 111+70, LT TO STA. 111+93, LT
	ASPHALT SHARED USE PATH (STD. NO. MD 580.08)
892 SF	MD 182 - STA. 106+00, LT TO STA. 106+91, LT
1155 SF	MD 182 - STA. 107+00, LT TO STA. 108+19, LT
2183 SF	MD 182 - STA. 108+52, LT TO STA. 110+73, LT
874 SF	MD 182 - STA 110+85 LT TO STA 111+72 LT



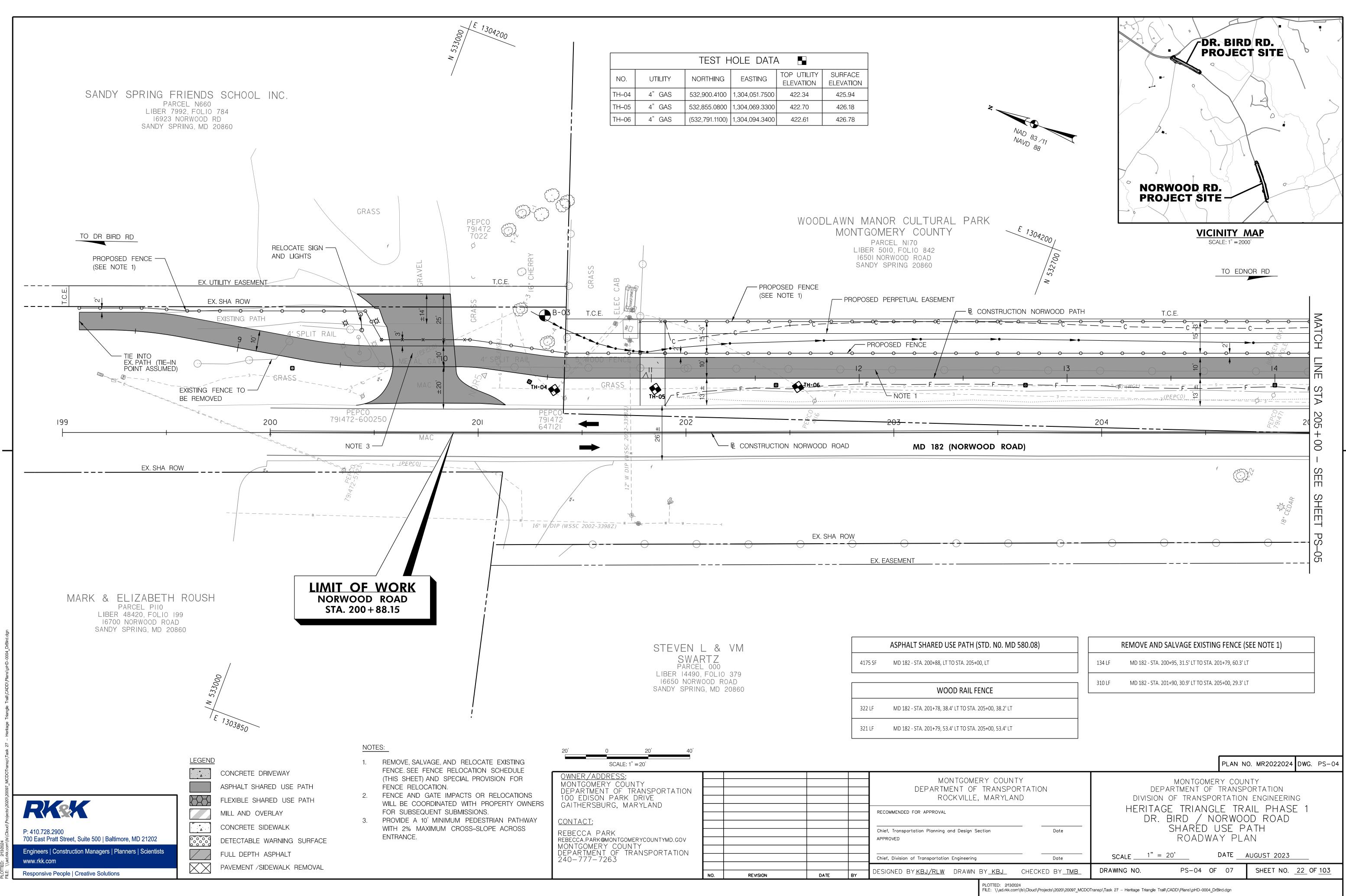
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	FLEXIBLE SHARE	D USE PATH						
2582 SF	MD 182 - STA. 112+00, LT TO STA. 11							
1548 SF	MD 182 - STA. 114+68, LT TO STA. 11	6+16, LT						
	6 INCH DEPTH CONCRET	E. MDOT SHA MIX 9.						
ER 22 SY	6 INCH DEPTH CONCRET FOR DRIVEWAYS AND D MD 182 - STA. 114+54, LT TO STA. 11							
	MU 102 - 51A. 114+54, ET TO 51A. 11	4+70, L1						
	REMOVE AND RESET E	XISTING MAILBOX						
1 EA	MD 182 - STA. 112+03, LT							
1 EA	MD 182 - STA. 114+47, LT							
1 EA	MD 182 - STA. 116+07, LT							
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	B CONSTRUCTION DR	BIRD ROAD				+1 116		
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	OWNER/ADDRESS				<u> </u>		MONTGOME	
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ROSS-SLOPE ACROSS	GAITHERSBURG, I	VIAR YLANU 				RECOMMENDED FOR A		
UNTERS LONGITUDIN ALL REPAIR AND REP STD. MD 387.11.	LACE REBECCA PARK REBECCA.PARK@MONTG	OMERYCOUNTYMD.GOV				Chief, Transportation APPROVED	Planning and Design Sea	tion
	MONTGOMERY COU DEPARTMENT OF 240-777-7263	JN LY TRANSPORTATION				Chief, Division of Tran	sportation Engineering	
		-	NO. REVI	SION	DATE BY	DESIGNED BY <u>KB</u>	I <u>/RLW</u> DRAWN [	3Y_k



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# ASPHALT SHARED USE PATH (STD. NO. MD 580.08)

5022 SF MD 182 - STA. 205+00, LT TO STA. 210+00, LT

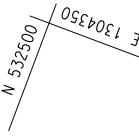
# WOOD RAIL FENCE

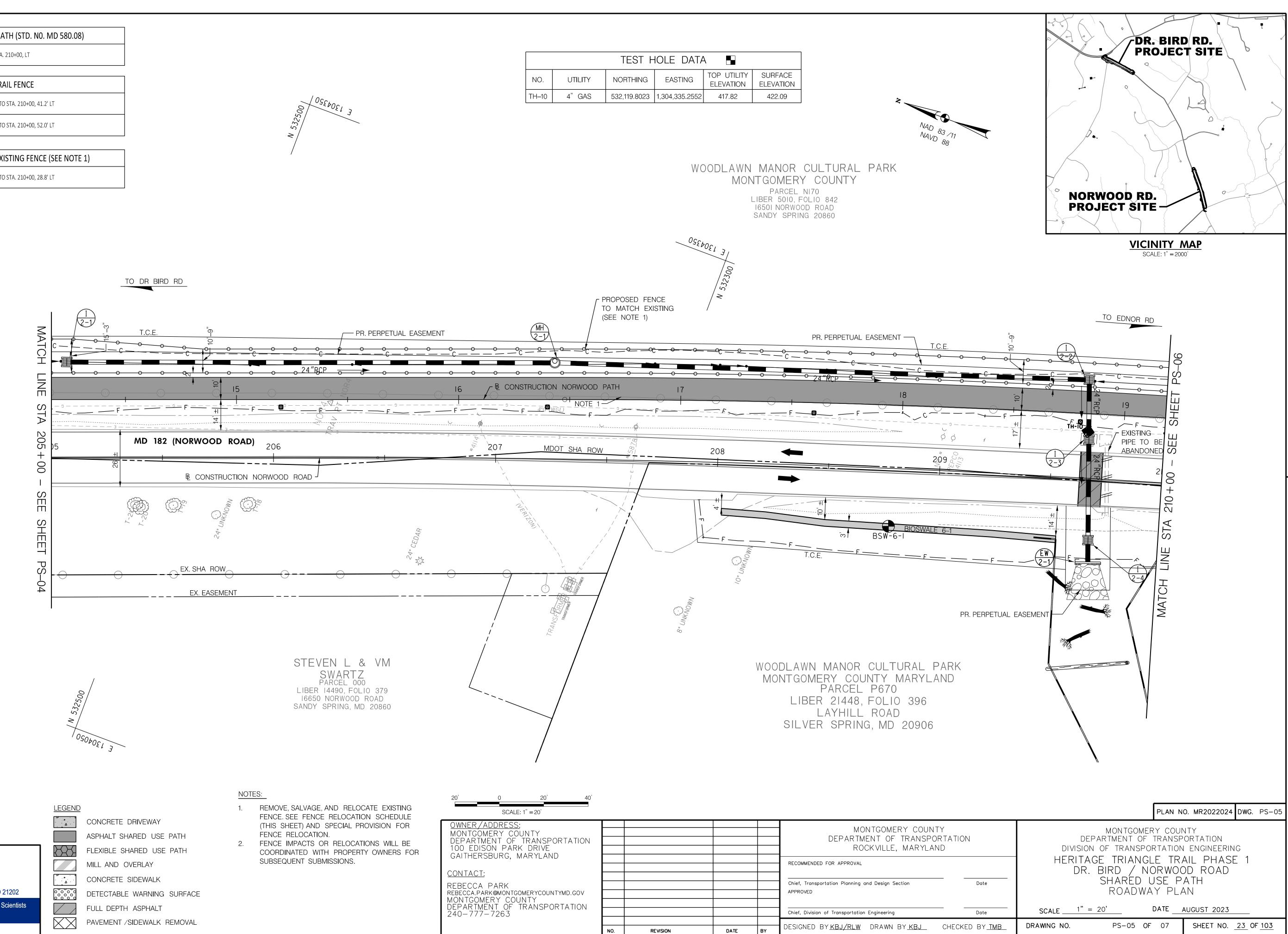
MD 182 - STA. 205+00, 38.2' LT TO STA. 210+00, 41.2' LT 322 LF

321 LF MD 182 - STA. 205+00, 53.4' LT TO STA. 210+00, 52.0' LT

# REMOVE AND SALVAGE EXISTING FENCE (SEE NOTE 1)

502 LF MD 182 - STA. 205+00, 29.3' LT TO STA. 210+00, 28.8' LT

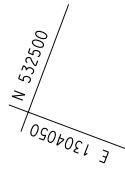






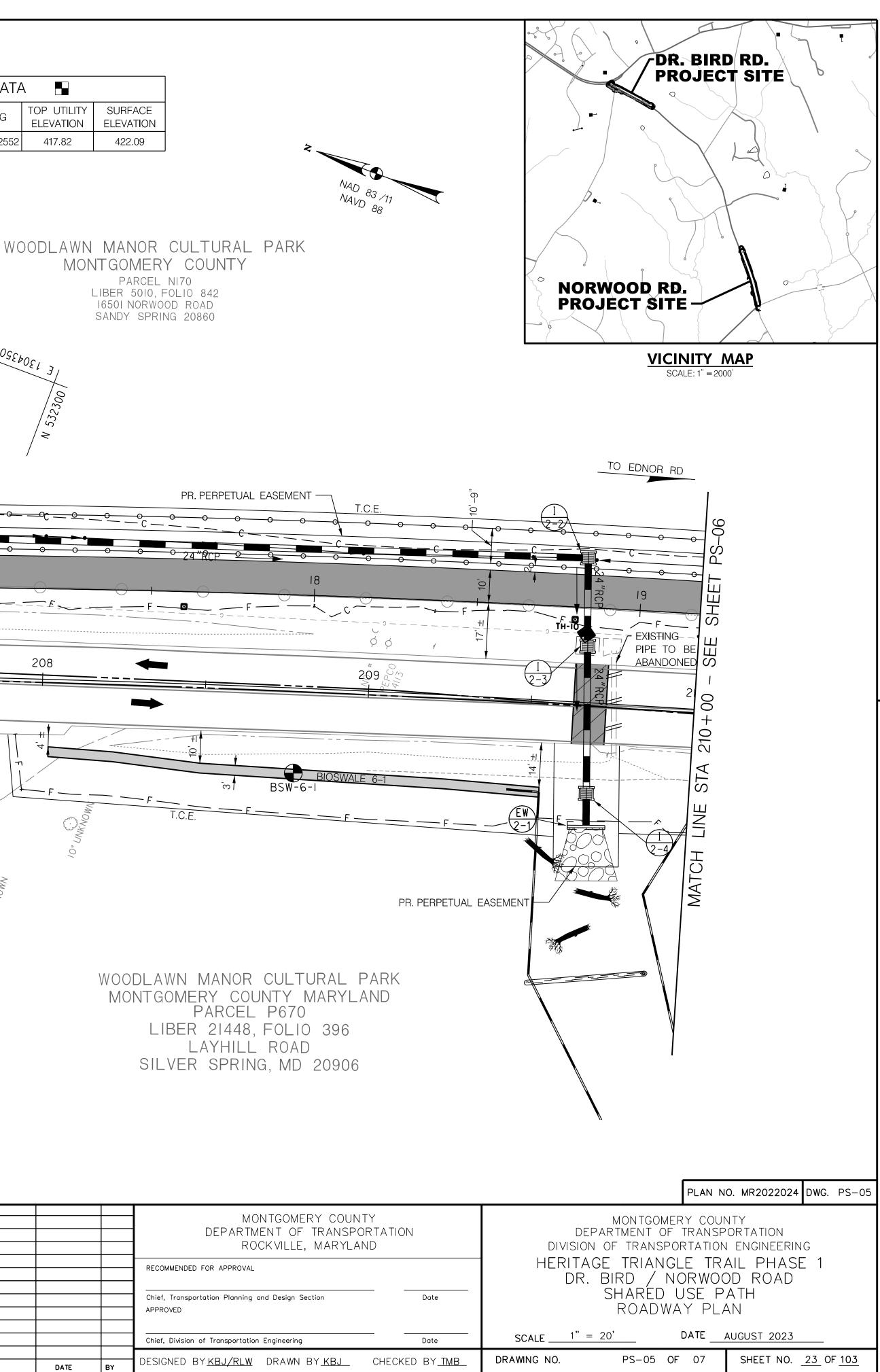
RK
P: 410.728.2900 700 East Pratt Street, Suite 500   Baltimore, MD 21202
Engineers   Construction Managers   Planners   Scientista www.rkk.com

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		TEST H	IOLE DATA	A 📕	
NO.	UTILITY	NORTHING	EASTING	TOP UTILITY ELEVATION	SURFACE ELEVATION
TH–10	4" GAS	532,119.8023	1,304,335.2552	417.82	422.09



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## FINE MILLING ASPHALT PAVEMENT 1 INCH TO 2.5 INCH DEPTH

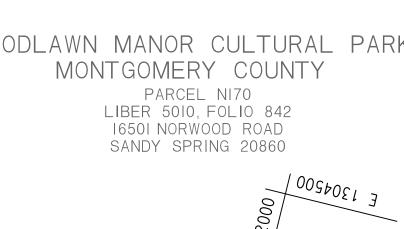
69 SY MD 182 - STA. 211+27. LT TO STA. 212+00. LT

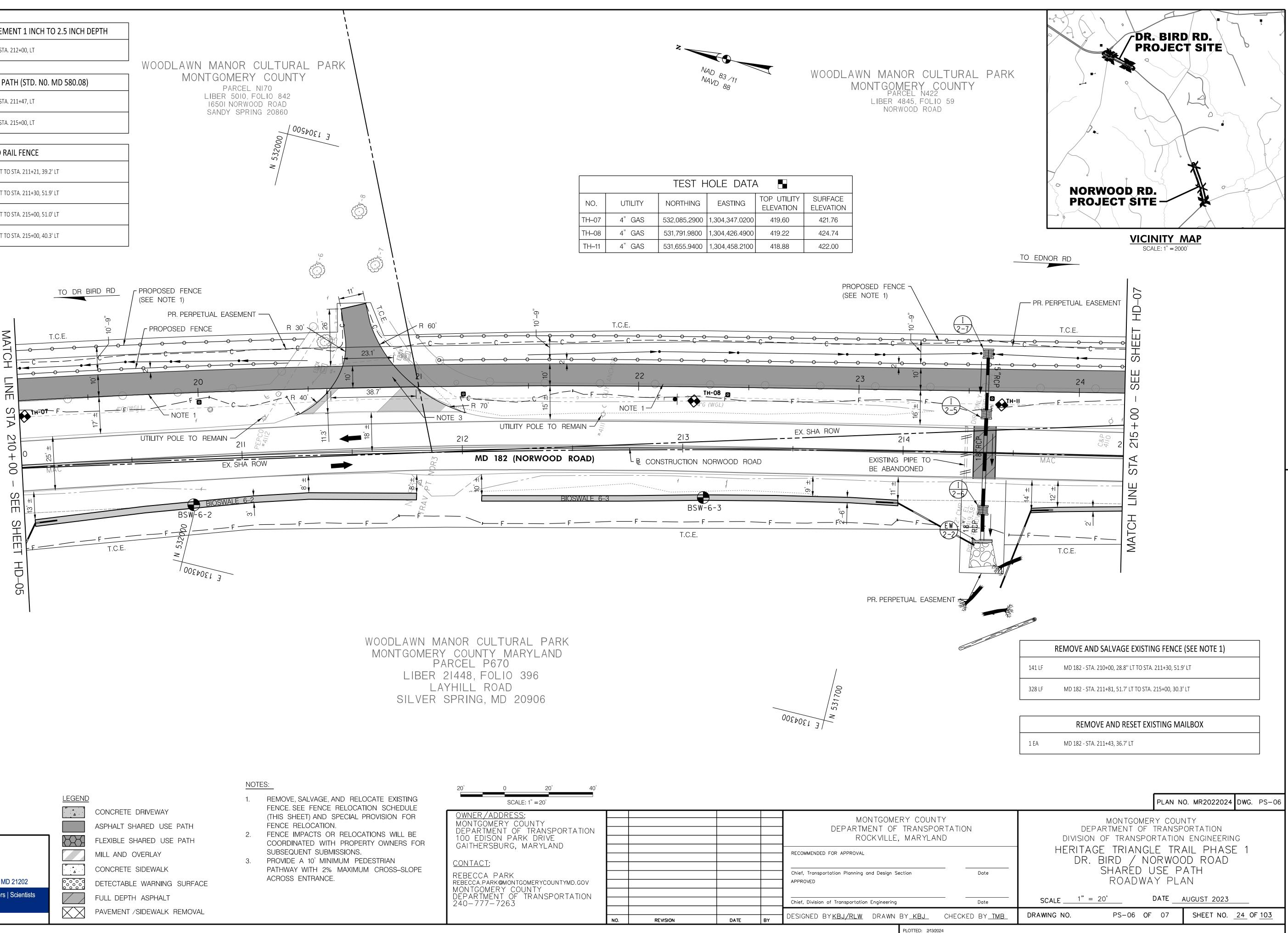
# ASPHALT SHARED USE PATH (STD. NO. MD 580.08)

1452 SF MD 182 - STA. 210+00, LT TO STA. 211+47, LT

3273 SF MD 182 - STA. 211+69, LT TO STA. 215+00, LT

	WOOD RAIL FENCE
124 LF	MD 182 - STA. 210+00, 41.2' LT TO STA. 211+21, 39.2' LT
132 LF	MD 182 - STA. 210+00, 52.0' LT TO STA. 211+30, 51.9' LT
322 LF	MD 182 - STA. 211+81, 51.7' LT TO STA. 215+00, 51.0' LT
312 LF	MD 182 - STA. 211+90, 40.9' LT TO STA. 215+00, 40.3' LT







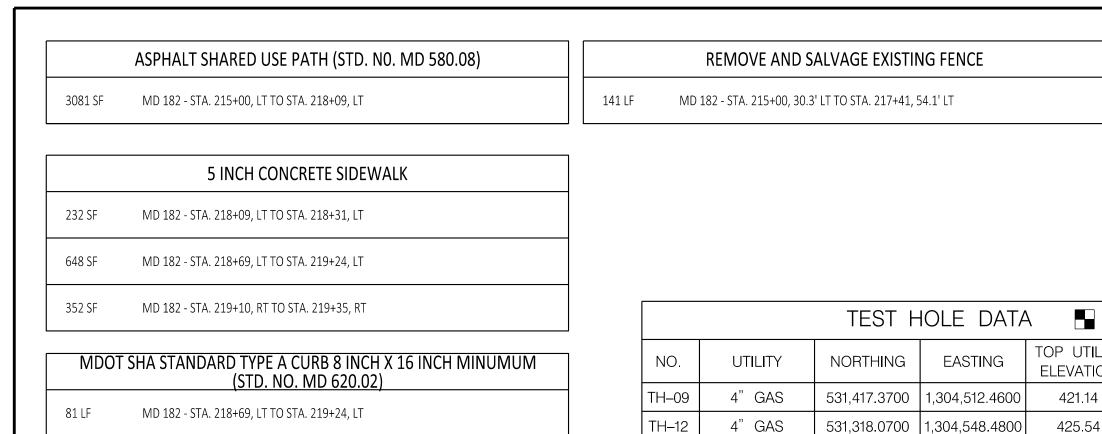
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TO DR BIRD RD

T.C.E.

₿ CONSTRUCTION NORWOOD ROAD ¬

-0-----0----

MDO	T SHA STANDARD TYPE A COMBINATION CURB AND GUTTER (STD. NO. MD 620.02)
72 LF	MD 182 - STA. 217+93, LT TO STA. 218+32, LT
78 LF	MD 182 - STA. 218+68, LT TO STA. 219+25, LT
22 LF	MD 182 - STA. 219+06, 22.7 RT TO STA. 219+28, 22.1 RT
24 LF	MD 182 - STA. 219+29, 61.1 RT TO STA. 219+37, 39.4 RT
	REMOVAL OF EXISTING PAVEMENT

MD 182 - STA. 218+00, LT TO STA. 218+26, LT

EDNOR RD - STA. 402+76, LT TO STA. 402+88, LT

Z

	WOOD RAIL FENCE
289 LF	MD 182 - STA. 215+00, 40.3' LT TO STA. 217+39, 42.1' LT
287 LF	MD 182 - STA. 215+00, 51.0' LT TO STA. 217+38 54.1' LT
	DETECTABLE WARNING SURFACES (STD. NO. MD 655.40)
22 SF	MD 182 - STA. 218+25, LT TO STA. 218+31, LT
20 SF	MD 182 - STA. 218+69, LT TO STA. 218+75, LT
20 SF	MD 182 - STA. 219+14, LT TO STA. 219+24, LT
19 SF	MD 182 - STA. 219+12, RT TO STA. 219+23, RT
19 SF	MD 182 - STA. 219+30, RT TO STA. 219+35, RT

MONTGOMERY COUNTY

LIBER 4845, FOLIO 59

NORWOOD ROAD

- ■ CONSTRUCTION NORWOOD PATH

EX. SHA ROV

- PROPOSED FENCE

216

(SEE NOTE 3)

25

BSW-6-4

T.C.E.

	CONCRETE DRIVEWAY	NOTE	<u>ES:</u>
	ASPHALT SHARED USE PATH	1.	NOSE DOWN CURB OVER 2 EXISTING EDGE OF ROAD.
$\left\langle \right\rangle$	FLEXIBLE SHARED USE PATH	2.	ALL CONCRETE BACKING CU FOR AS MDOT SHA TYPE A
	MILL AND OVERLAY	3.	OR DEPTH; 12" MAXIMUM HE REMOVE, SALVAGE, AND RELO
	CONCRETE SIDEWALK		FENCE. SEE FENCÉ RELOCATI (THIS SHEET) AND SPECIAL PL FENCE RELOCATION.
ç o	DETECTABLE WARNING SURFACE	4.	IF CONTRACTOR ENCOUNTER UNDERDRAIN, THEY SHALL RE
	FULL DEPTH ASPHALT	5.	IN ACCORDANCE WITH STD.I FENCE IMPACTS OR RELOCA
$\Box$	PAVEMENT /SIDEWALK REMOVAL		COORDINATED WITH PROPER SUBSEQUENT SUBMISSIONS.

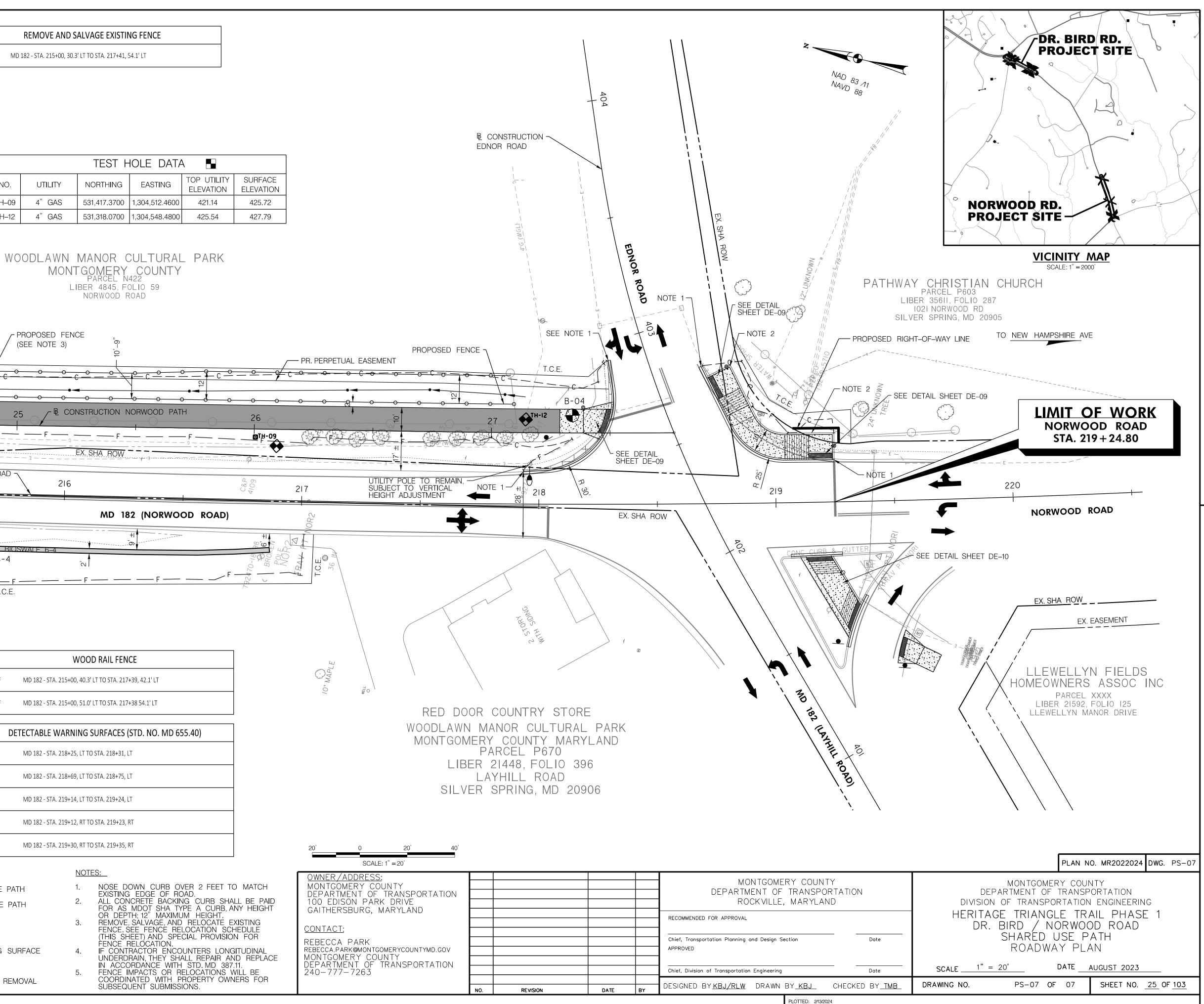
3 CY

1 CY

24 LF

MD 182 - STA. 219+23, 22.9 RT TO STA. 219+35, 43.4 RT

LEGEND
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#### MONTGOMERY COUNTY, MARYLAND DEPARTMENT OF TRANSPORTATION TRAFFIC ENGINEERING AND OPERATIONS

#### JUNE 2016

#### RESIDENTIAL, DIRECT BURIAL FIBERGLASS POLE ROUND, TAPERED, POST-TOP <u>GRAY</u> OR <u>BLACK</u>

#### 1) <u>DESCRIPTION</u>

The residential, round, tapered, direct burial fiberglass pole shall be made of a fiberglass reinforced composite (fiberglass filament and color pigmented resin), with a polyurethane and UV inhibitor coating, with a natural finish. This fiberglass pole is intended for use on residential roadways, walkways, and tunnels throughout Montgomery County. Any manufacturer, distributor or vendor who submits a bid shall agree to comply with these specifications and the attached drawings.

#### 2) <u>DESIGN CRITERIA</u>

#### 2.1 AASHTO Standards

The residential, round, tapered, direct burial fiberglass pole shall meet the requirements of the American Association of State Highway and Transportation Officials (AASHTO) Standard, "Specification for Structural supports for Highway Signs, Luminaires and Traffic Signals," latest edition.

#### 2.2 Wind Load

The residential, round, tapered, direct burial fiberglass pole shall be designed to resist (at yield strength of the material without permanent deflection or destruction) test loads equivalent to the calculated wind loads developed by the velocity pressures of an 80 MPH wind with a 30% gust factor. A minimum safety factor of 1.82 on the yield strength shall be maintained.

#### 2.3 Effective Projected Area (EPA)

The residential, round, tapered, direct burial fiberglass pole shall be designed

using the following assumptions:

- a) The streetlight luminaire shall be mounted at a height of 12 feet above the level of the surrounding ground (EPA of 3 Sq. Ft. +/-).
- b) One (24" x 36") traffic sign may be mounted with the sign's bottom edge 7 feet above the ground. (EPA of 6 Sq. Ft. +/-).

#### 3) <u>MATERIALS</u>

- a) The residential, round, tapered, direct burial fiberglass pole shall be constructed by a winding filament process with color pigmented polyester resin impregnated into the filaments. The filament winding shall be continuously applied with uniform tension.
- b) The resin used will be color pigmented and shall be ultraviolet resistant. A highly weather resistant pigmented polyurethane coating shall be applied to the pole at a minimum thickness of 1.5 mils.

#### 4) <u>FINISH</u>

The residential, round, tapered, direct burial fiberglass pole shall be of a natural finish for the entire length of the pole.

#### 5) <u>TENONS</u>

The residential, round, tapered, direct burial fiberglass pole shall have a permanently bonded, hot-dipped galvanized steel or aluminum, 3 inch tenon.

#### 6) <u>HAND-HOLES</u>

The residential, round, tapered, direct burial fiberglass pole shall have one  $2\frac{1}{2}$  inch x 5 inch hand-hole, with a non-metallic cover secured with a vandal-resistant, stainless steel screws.

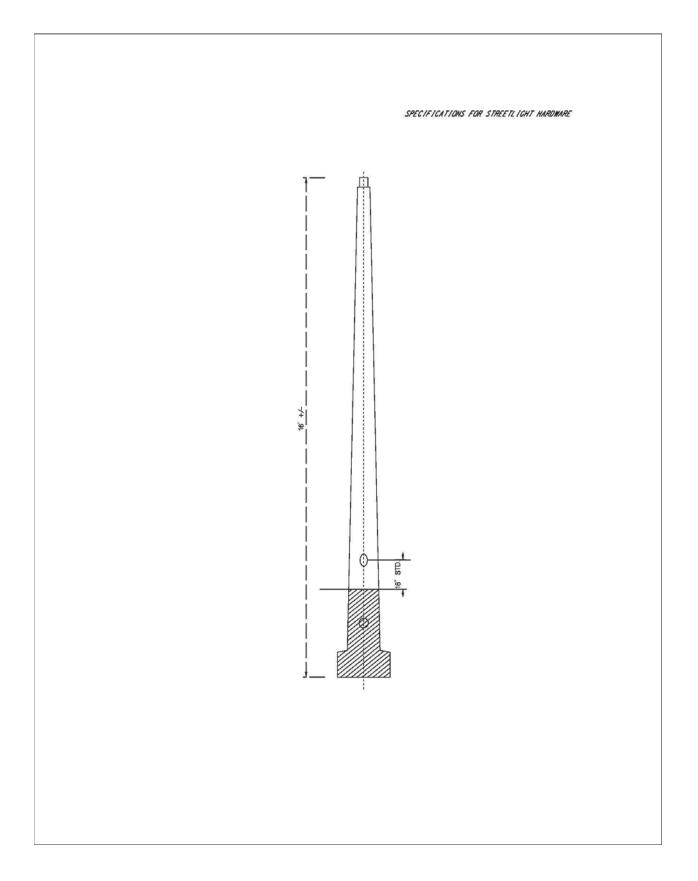
#### 7) <u>POLE</u>

#### 7.1 Shaft

The residential, round, tapered, direct burial fiberglass pole shaft shall have a bottom pole diameter of 5.5 inches (+/- 0.1 inches), and a top pole diameter of 2.9 inches (+/- 0.1 inches)

7.2 Length

The residential, round, tapered, direct burial fiberglass pole shall have a nominal minimum luminaire mounting height of 12 feet and a maximum of 14 feet above the surrounding ground. The shaft shall be embedded a minimum of 3 feet in the ground.



#### MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION TRAFFIC ENGINEERING AND OPERATIONS

#### JUNE 2016

#### RESIDENTIAL, COLONIAL POST-TOP, LED OPTICS, TYPE III DISTRIBUTION, STYLE LUMINAIRE

### 1) <u>PURPOSE</u>

The purpose of these specifications is to prescribe the minimum requirements for the design, manufacture, fabrication, finishing and delivery of colonial post-top, LED optics, type III distribution, style luminaire. This luminaire is intended for use on or with the black fiberglass pole. These colonial post-tops, LED optics, type III distribution, style luminaires are intended for use along residential roadways, walkways, and tunnels throughout Montgomery County. Any manufacturer, distributor or vendor who submits a bid shall agree to comply with these specifications and attached drawings.

### 2) <u>DESCRIPTION</u>

The residential, colonial post-top, LED optics, type III distribution, style luminaire is made of a cast aluminum alloy housing.

Each streetlight luminaire shall include the following:

- a) Cast aluminum housing and hinged top canopy;
- b) 120 volt LED Driver;
- c) 10KV Surge Suppression Device built in;
- d) NEMA standard photoelectric control receptacle and NEMA multi-volt standard photocell;
- f) Acrylic or Polycarbonate resin refractor side panels (lens);
- h) All necessary hardware required for mounting on fiberglass poles, as specified.

### 3) <u>DESIGN CRITERIA</u>

3.1) <u>AASHTO Standards</u>

The luminaire shall meet the requirements of American Association of State Highway and Transportation Officials (AASHTO) Standard, "Specification for Structural supports for Highway Signs, Luminaires and Traffic Signals," latest edition.

- 3.2) <u>Shape and Minimum Size</u>
  - a) The luminaire shall be of a trapezoidal shape. The minimum size for the luminaire shall 40.0 inches (sum of the length plus height), when viewed from the side.
  - b) The luminaire shall be suitable to accommodate 120 volt LED Driver, 10KV Surge Suppression Device and NEMA standard photoelectric control receptacle and NEMA multi-volt standard photocell.
- 3.3 Effective Projected Area (EPA)

The luminaire shall have a maximum estimated allowable EPA for the luminaire of  $0.7 \pm$  square feet.

3.4 <u>Finish</u>

The luminaire shall have a black polyester powder coat finish. During the finishing process, all critical openings shall be plugged to prevent contamination of the threads or reduction of other critical openings.

## 4) <u>MATERIALS</u>

### 4.1 <u>Housing</u>

The luminaire shall consist of a water tight housing fabricated from die-cast aluminum with a gasketed die-cast aluminum canopy. The canopy shall be hinged on one side and secured on the opposite side with a captive stainless steel screw. All castings used to fabricate the luminaire housing shall be clean and smooth with details defined and true to pattern. The housing shall be suitable to accommodate 120 volt LED Driver, 10KV Surge Suppression Device and NEMA standard photoelectric control receptacle and NEMA multi-volt standard photocell.

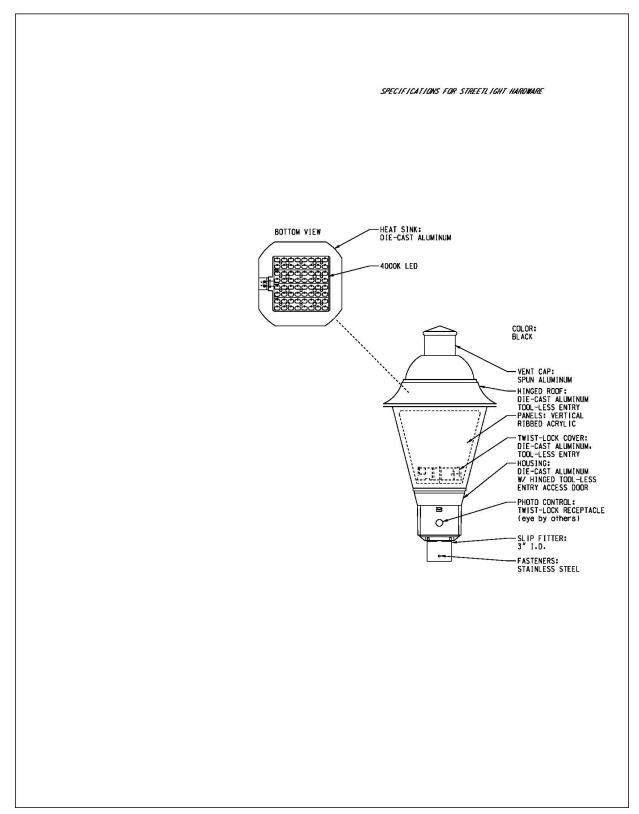
4.2 Driver & Surge Protection

The driver shall be mounted to facilitate easy removal for maintenance operations. The driver shall be equipped with a 10KV Surge Protection and suppression system. All electrical connections shall be polarized and of plug-in design. The driver shall be wired to receive 120 volt AC current. The driver shall reliably start and operate the lamp in ambient temperatures down to minus 30 degrees. The terminal block shall be capable of accepting up to a #6 AWG wire.

- 4.3 <u>LED Color Temperature (CCT) and Rendering Index (CRI)</u> The Correlated Color Temperature (CCT) shall be a nominal Kelvin Temperature of 3500K ± 200K with a minimum Color Rendering Index (CRI) of 70.
- 4.4 <u>Photoelectric Cell</u> The photocell receptacle shall be mounted for easy access and maintenance. The photocell shall be of the NEMA twist-lock type.
- 4.5 <u>Side refractor panels</u> The luminaire shall be equipped with acrylic or polycarbonate resin refractor panels, with spring loaded retainer clips to hold refractor panels.
- 4.6 <u>Slip Fitter</u>

The slip fitter shall have a nominal inside diameter of 3.375 inches +/- 0.25 and shall be secured to the lamp post tenon with three or four evenly spaced set screws. The slip fitter shall accommodate a tenon 3.0 inches long.

#### SPECIFICATIONS FOR STREETLIGHT HARDWARE IFB # 1063092



#### Montgomery County Planning Board

THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION

2425 Reedie Drive Floor 14 Wheaton, MD 20902

MontgomeryPlanningBoard.org

November 15, 2022

Mr. Christopher Conklin, PE, Director Montgomery County Department of Transportation Executive Office Building 101 Monroe Street, 10th Floor Rockville, Maryland 20850

Dear Mr. Conklin:

At its regularly scheduled meeting on November 3, 2022, the Montgomery County Planning Board voted to provide the following comments for Mandatory Referral No. 20220024 by a vote of 4:0 (Commissioner Piñero was absent), for the design of sidepath improvements on Doctor Bird Road and Norwood Road between Olney-Sandy Spring Road (MD 108) and Layhill Road/Ednor Road:

- 1. Construction plans must be submitted to the Montgomery Parks Department for review as part of the Park Construction Permit process to ensure that all work is performed in accordance with M-NCPPC standard details, specifications, and policies. No work on parkland may occur until an approved Park Construction Permit is issued for the project.
- 2. The final Memorandum of Understanding regarding access and maintenance must be agreed to and finalized between MCDOT and M-NCPPC before the issuance of a Park Construction Permit. MCDOT will be responsible for maintaining the asphalt sidepath facility and the proposed lighting.
- 3. MCDOT shall continue to coordinate with M-NCPPC on the design of the path and other elements including lighting, user safety elements, stormwater culvert and outfalls, stormwater bioswales, security cameras, double fence design including a mow strip, and natural resource protection and mitigation.
- 4. Mitigation for impacts to Park trees (with a 6" diameter at breast high or greater) damaged or removed, shall either be (1) replacement planting on parkland at a rate of one inch to one inch diameter or (2) a monetary per inch caliper basis at the rate of \$100/diameter inch, to be paid to Montgomery Parks prior to completion of construction.
- 5. Where the sidepath crosses driveways, maintain the sidepath's elevation across the driveway. Where possible, the sidepath should be pulled away from the roadway at driveways.
- 6. Given the open section cross section proposed along Norwood Road and the proximity of existing utility poles close to the road's edge on the east side, consideration from a Vision Zero perspective should be given to relocating or undergrounding these utilities in the future.

Mr. Christopher Conklin, PE, Director November 15, 2022 Page Two

The Planning Board appreciates the opportunity to review this project and continue coordinating with your staff on this and future projects. If you have questions, please contact Stephen Aldrich at (301) 495-4528 or <u>Stephen.Aldrich@MontgomeryPlanning.org</u>.

Sincerely,

Jeffrey Zyontz

Chair

cc: Stephen Aldrich, Planner IV, M-NCPPC Jason Sartori, Chief, M-NCPPC Dan Sheridan, MCDOT

Enclosure:

M-NCPPC Staff Mandatory Referral Staff Report

JZ:SA:aj

#### Montgomery Planning

## HERITAGE TRIANGLE TRAIL – PHASE 1 DOCTOR BIRD ROAD/NORWOOD ROAD SIDEPATH

## MANDATORY REFERRAL NO. 2022024

#### Description

Montgomery County Department of Transportation (MCDOT) is proposing to contract a sidepath for pedestrian and bicycle use along two sections of MD 182 – 1,400 feet along Doctor Bird Road starting at its intersection with Olney Sandy Spring Road (MD 108) and 1,700 feet along Norwood Road starting at the Norwood Road intersection with Layhill Road and Ednor Road and running to the north. The project is located in the Olney/Sandy Spring area. The proposed improvements will include construction of a ten-foot-wide sidepath to tie into the existing pedestrian and bicycle network at the project limits.



Montgomeryplanning.org

## **Planning Staff**

 Stephen Aldrich, PE, Planner IV, Countywide Planning & Policy Division,

 Stephen.Aldrich@MontgomeryPlanning.org, 301-495-4528

 DS
 Douglas Stephens, Principal Natural Resources Specialist, Park Planning & Stewardship,

 Douglas.Stephens@MontgomeryPlanning.org, 301-650-4367

 JS
 Jason Sartori, Chief, Countywide Planning & Policy Division,

 Jason.Sartori@MontgomeryPlanning.org, 301-495-2172

### LOCATION

Doctor Bird Road starting at Olney Sandy Spring Road (MD 108) and running south a distance of 1,400 feet, and Norwood Road from Layhill Road/Ednor Road intersection running north a distance of 1,700 feet (adjacent to Woodlawn Manor Cultural Park)

#### MASTER PLAN

1998 Sandy Spring Ashton Master Plan, 2018 Bicycle Master Plan, 2018 Master Plan of Highways and Transitways

#### APPLICANT

Montgomery County Department of Transportation

#### ACCEPTANCE DATE

August 22, 2022

#### **REVIEW BASIS**

20-302 of the Land Use Article (Mandatory Referral)

# Summary:

- Montgomery County Department of Transportation to construct sidepath improvements along a 1,400 feet section of Doctor Bird Road starting at Olney-Sandy Spring Road (MD 108) heading to the south and a 1,700 foot-long section of Norwood Road starting at the intersection of Norwood Road with Layhill Road/Ednor Road and heading to the north.
- Forest Conservation exemption #42021057E was confirmed on February 27, 2015 as a linear county road project per Section 22A-5(e).
- Staff recommends approval of the Mandatory Referral with comments. .

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SECTION 1: RECOMMENDATIONS SUMMARY
SECTION 2: PROJECT DESCRIPTION 4
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STORMWATER MANAGEMENT AND DRAINAGE
Public Land
LIGHTING
IMPACTS TO MONTGOMERY PARKS PROPERTIES
SECTION 3: 35% DESIGN PLANS FINDINGS AND ANALYSIS
DESIGN ELEMENTS - TRANSPORTATION
PARKLAND IMPACTS
SECTION 4: COMMUNITY OUTREACH
SECTION 5: CONCLUSION
ATTACHMENTS

#### MANDATORY REFERRAL REVIEW BASIS

This proposal for the construction of pedestrian and bicycle improvements is required to undergo the Mandatory Referral review process under the Montgomery County Planning Department's Uniform Standards for Mandatory Referral Review. State law requires all federal, state, and local governments and public utilities to submit proposed projects for a Mandatory Referral review by the Commission. The law requires the Planning Board to review and approve the proposed location, character, grade and extent of any road, park, public way, or ground, public (including federal) building or structure, or public utility (whether publicly or privately owned) prior to the project being located, constructed, or authorized. This review is typically performed in context with the relevant master plans, guidelines, and policies in effect.

Planning Staff acknowledges that the implementation of master plan transportation recommendations is a challenge faced by the Applicant in developing design plans to convert desired master plan recommendations into engineering design drawings. The design process up to 30/35 percent design typically brings clarity with considerably more detail than considered during a master plan, and issues such as environmental impacts, historic impacts, and construction costs may introduce new factors that need to be weighed in developing a final design solution. It is the intention of the Board that the Mandatory Referral process aids in this process to develop an optimal or at least an improved design solution.

#### SECTION 1: RECOMMENDATIONS SUMMARY

Planning Staff recommends approval of the Heritage Triangle Trail – Phase 1 Sidepath 35 percent design plans (MR2022024) with the following comments.

- Construction plans must be submitted to the Parks Department for review as part of the Park Construction Permit process to ensure that all work is performed in accordance with M-NCPPC standard details, specifications, and policies. No work on parkland may occur until an approved Park Construction Permit is issued for the project.
- 2. The final MOU regarding access and maintenance must be agreed to and finalized between MCDOT and M-NCPPC before the issuance of a Park Construction Permit. MCDOT will be responsible for maintaining the asphalt sidepath facility and the proposed lighting.
- 3. MCDOT shall continue to coordinate with M-NCPPC on the design of the path and other elements including lighting, user safety elements, stormwater culvert and outfalls, stormwater bioswales, security cameras, double fence design including a mow strip, and natural resource protection and mitigation.
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- 5. Where the sidepath crosses driveways, maintain the sidepath's elevation across the driveway. Where possible, the sidepath should be pulled away from the roadway at driveways.
- 6. Given the open section cross section proposed along Norwood Road and the proximity of existing utility poles close to the road's edge on the east side, consideration from a Vision Zero perspective should be given to relocating or undergrounding these utilities in the future.

### **SECTION 2: PROJECT DESCRIPTION**

#### **PROPOSED DESIGN PROJECT**

The Montgomery County Department of Transportation (MCDOT) recently completed the 35% design phase of the Heritage Triangle Trail - Phase 1 Doctor Bird / Norwood Road Sidepath Project. The project provides a well-connected pedestrian and bicycle network sidepath along Doctor Bird Road (MD 182) and Norwood Road (MD 182). The project limits, shown below in Figure 1, complete two missing links in the bicycle network and provide a pedestrian and bicycling space where none exists today by adding the following:

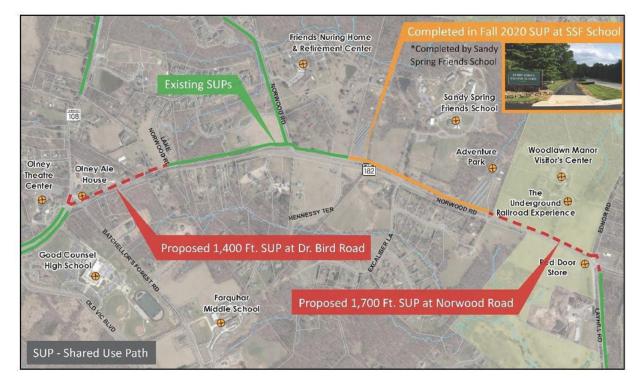
- Approximately 1,400 feet of new shared-use path along MD 182 starting at MD 108 (Olney Sandy Spring Road) and traveling south towards Norwood Road.
- Approximately 1,700 feet of new shared-use path along MD 182 starting at the driveway of The Adventure Park at Sandy Spring and traveling south to Ednor Road.
- Lighting, stormwater management facilities, and any required signal/crosswalk improvements at the intersections of MD 108 / MD 182 and Ednor Road / MD 182.

Completing the missing links in the bicycle network will provide a connection between several existing Maryland Heritage Sites along the MD 182 corridor, providing access to residential areas, transit, commercial districts, schools, places of worship, parks, and recreational areas.

#### PEDESTRIAN AND BICYCLE SAFETY IMPACT

This project is anticipated to significantly improve pedestrian and bicycle safety in the project area. In addition to improvements along Doctor Bird Road and Norwood Road, this project will complete two missing links in the larger bicycle network, providing a safe north/south connection for bicyclists and pedestrians in the Sandy Spring area.

In addition, the grading associated with the sidepath will provide adequate horizontal sight distance for motorists along a roadway where sight distance does not meet current AASHTO requirements. This will allow motorists to see pedestrians and bicyclists using the sidepath, improving safety for all parties.



#### Figure 1 – Vicinity map

**Doctor Bird Road** - The existing roadway (see Figure 2) has two travel lanes with some shoulder towards the intersection of MD 182 / MD 108, resulting in bicyclists sharing the narrow lanes with vehicles. The proposed sidepath (see Figure 3) will provide an off-road separated bicycle facility to accommodate bicycle users who are not comfortable riding in a shared lane on a narrow roadway. It will also accommodate pedestrians through an area that currently does not have any separated pedestrian space. The path will connect to existing sidepaths at both termination points, improving the overall transportation network.

**Norwood Road** - The existing roadway (see Figure 4) contains two travel lanes with no existing shoulder, which results in bicyclists sharing narrow lanes with vehicles. The proposed sidepath (see Figure 5) will provide an off-road separated bicycle facility to accommodate bicycle users who are not comfortable riding in a shared lane on a narrow roadway. It will also accommodate pedestrians through an area that currently does not have any separated pedestrian space. The path will connect to existing sidepaths at both termination points, improving the overall transportation network.



Figure 2 – Doctor Bird Road: Existing



Figure 3 – Doctor Bird Road: Proposed



Figure 4 – Norwood Road: Existing

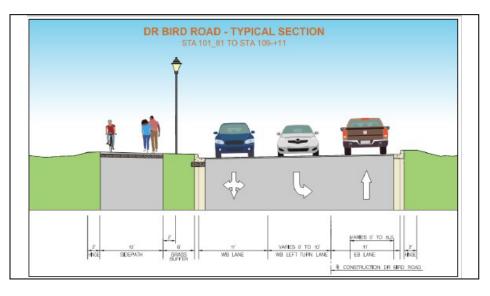


Figure 5 – Norwood Road: Proposed

#### **TYPICAL SECTIONS**

**Doctor Bird Road** – Doctor Bird Road (MD 182) is classified as a two-lane Major Highway in the Master Plan of Highway and Transitways (MPOHT). The existing typical section consists of one eastbound through lane (11' to 12') and one westbound through lane (11'). There is a westbound left-turn lane approaching the intersection of Doctor Bird Road with Olney Sandy Spring Road (MD 108). The immediate area has a rural character.

Under the proposed condition, the existing roadway alignment will be shifted south, near the MD 182 / MD 108 intersection, to provide space for a buffer separated sidepath on the adjacent westbound lane. The proposed typical section will have a lane configuration identical to existing conditions with one eastbound 11-foot eastbound through lane, one 11-foot westbound through lane, a six-foot grass buffer, and an additional 10-foot sidepath adjacent to the westbound lane. Details are provided below:



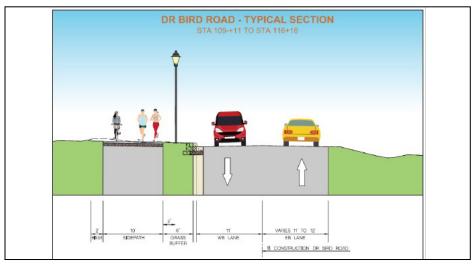


Figure 6 – Doctor Bird Road Proposed Typical Sections

**Norwood Road** – Norwood Road (MD 182) is classified as a two-lane Major Highway in the MPOHT. The existing typical section consists of one northbound lane (11' to 13') and one southbound lane (10' to 14') without shoulders or safety grading. The immediate area has a rural character.

Under the proposed condition, the existing roadway will not be impacted. The proposed typical section will add a variable width buffered grass shoulder and variable width bio-swale adjacent to the southbound lane as well as a variable width buffered grass shoulder, 10-foot sidepath with buffered grass shoulders on each side, and a variable width drainage ditch adjacent to the northbound lane.

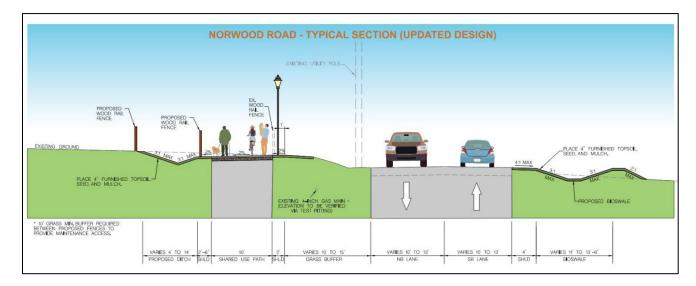


Figure 7 – Norwood Road Proposed Typical Section

#### STORMWATER MANAGEMENT AND DRAINAGE

The Applicant has provided full stormwater management treatment for this project; however, due to surrounding residential properties, utilities, constrained right-of-way (ROW), and the existence of high-value park properties adjacent to portions of the proposed path, locations to provide stormwater management are limited. Through previous discussions with M-NCPPC Staff, it was decided that stormwater management treatment within their property should be limited to the south side of Norwood Road. This limits the ability to treat the newly proposed path; however, treatment in these facilities has been maximized to the extent possible.

The project provides environmental site design (ESD) to the maximum extent practicable (MEP) within the project area through the provision of one (1) Micro-bioretention Facility along the Doctor Bird portion of the project, and four (4) Bioswale facilities location along the south side of Norwood Road. The one micro-bioretention facility will be built within MDOT SHA ROW and use MDOT SHA details, while the bioswales will be built on parks property and use Montgomery County Stormwater Management details. Though all available space within the project area is utilized to provide as much stormwater management treatment as possible, these 5 facilities still do not treat the full stormwater management requirement. Therefore, MCDOT will be seeking a waiver for the treatment that cannot be provided.

The proposed work will not impact any stream buffers, floodplains, or wetlands. The project site drains to the Watershed of the Anacostia River (02140205) to the South and the Watershed of Rocky Gorge Dam (02-13-11-07) to the North.

Drainage design within the project area is limited to replacing existing roadside drainage amenities inkind along Doctor Bird Road. Along Norwood Road, a drainage ditch is proposed and designed between the newly proposed shared-use path and the roadway. This ditch provides conveyance to existing cross-culverts, which will be replaced and upgraded under this task to meet current criteria. The outfalls of these cross culverts are being upgraded with a riprap design to provide a stable outfall for crossflows and the proposed bioswales, which outfall into these areas.

#### PHASING SCHEDULE

This project represents Phase 1 of the Heritage Triangle Trail, a phased project that will connect four heritage tourism destinations—the Olney Theatre Center, Sandy Spring Museum, Underground Railroad Experience Trail Hike, and Woodlawn Manor Cultural Park—via a sidepath for bicyclists and pedestrians. Approximately one mile of trail exists along the eastern portion of Doctor Bird Road/Norwood Roads. A segment along the Sandy Spring Friends School's Norwood Road frontage was recently completed in 2020. The current phase closes the gap between the Olney Theatre and the existing trail while establishing a new connection to Woodlawn Manor Cultural Park. An overview map is provided in Figure 8.

Following construction of Phase 1, the team is planning to continue design on the remaining segments of the Heritage Triangle Trail. The goal would be to initiate community outreach and preliminary design work on the remaining segments in 2024.

#### PUBLIC LAND

The proposed sidepath will be constructed largely within the existing state and county right-of-way; however, some parts of the path along Doctor Bird Road will be installed on private residential property. Additionally, portions of the path along Norwood Road will be installed on Montgomery Parks property. The project team has been coordinating with both groups of stakeholders regarding the project design and will prepare full right-of-way/ easement plats as part of the final design process. Temporary construction easements will be required on both the private residential properties and Montgomery Parks property.

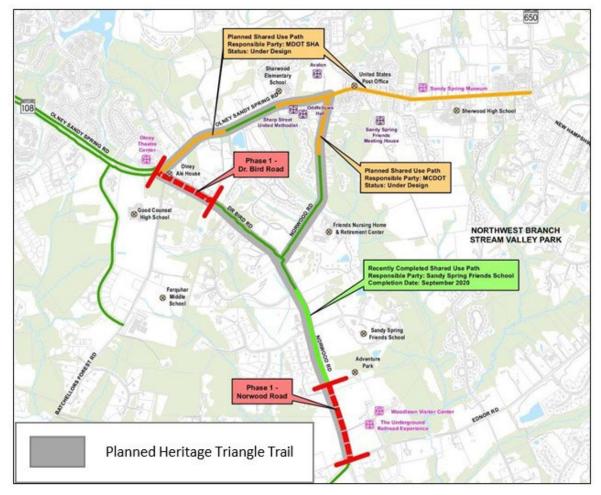


Figure 8 – Heritage Triangle Trail Overview Map

### FUNDING

The design and construction of the project is currently funded by MCDOT with a contribution of \$100,000 from the Maryland Heritage Areas Authority Grant Program.

### LIGHTING

The initial design plans for this project included pedestrian lighting along all sections of the newly installed sidepath. During the project's stakeholder outreach, Parks identified several concerns with the installation of lighting along the Norwood Road section. Over the course of several months, MCDOT held several meetings with Parks and several associated stakeholders to review and resolve the lighting concerns identified. Following several discussions, all parties agreed that lighting fixtures would be acceptable along Norwood Road under the following established criteria:

- Lighting Fixtures MCDOT agreed to select a colonial post lighting fixture that met Parks' requirements for light transmission (dark sky compliant, shielding, low wattage LED bulbs)
- Lighting Maintenance MCDOT agreed to maintain the lighting fixtures
- Lighting Continuity MCDOT agreed to coordinate the future lighting of currently un-lit portions of the surrounding sidepaths that are a part of the proposed Heritage Triangle Trail system (Sandy Spring Friends School Path and the sidepath directly north of this newly constructed path)
- Trail Counters MCDOT agreed to install bicycle/pedestrian trail counters along the sidepath

MCDOT reviewed several proposed fixtures with Parks and it was agreed that the MCDOT standard colonial post fixture would be acceptable. Regarding the lighting continuity issue, MCDOT and Parks agreed to the following conditions per an email from Montgomery Parks in Spring 2022:

"The installation of lighting on parkland along Norwood Road is contingent upon lighting the adjacent path sections, North Path and Sandy Spring Friends School, concurrently. If lighting the adjacent path sections (North Path and Sandy Spring Friends School) is not to be included in HTT Phase 1, then conduit only will be approved for the parkland section at this time, with delayed approval for light fixtures when funds are procured for the adjacent path lighting to be installed concurrently. Parks' goal is to provide lighting uniformity along the route that doesn't lead trail users to unsafe dark zone."

MCDOT AGREES TO THESE CONDITIONS AND CONFIRMED THAT THE LIGHTING FOR THE CURRENTLY UN-LIT AREAS WILL BE INSTALLED UNDER A SEPARATE CONTRACT SUBJECT TO THE APPROPRIATION OF FUNDS. ALL FUTURE LIGHTING PLANNED IS SUBJECT TO APPROPRIATION. MEMORANDUM OF UNDERSTANDING

In addition to the lighting coordination described in the previous section, MCDOT and Montgomery Parks conducted extensive coordination regarding the proposed project design and the division of maintenance responsibilities for the new project facilities. Because a significant portion of the planned sidepath, drainage facilities, and stormwater management facilities fall on parks property, the team initiated preliminary development on how the assets would be maintained following the completion of construction. Below is an outline of the preliminary responsibilities as discussed by the team:

- **Sidepath Facility MCDOT:** MCDOT will be responsible for maintaining the asphalt sidepath facility. This will include repairs to the asphalt surface and any additional maintenance required.
- **Vegetation and Fences Parks:** Montgomery Parks will maintain the lawns, trees, and fences/railings located along the path on Parks property.
- **Drainage Facility Parks:** Montgomery Parks will maintain the drainage swales installed on Parks property. This will include mowing, weeding, trash removal, and any other associated maintenance for the swales. MCDOT shall be responsible for structural maintenance (inlets, pipes, endwalls, and headwalls).

- Stormwater Management Facility Parks: Montgomery Parks will maintain the stormwater management facilities on Parks property. This includes managing the vegetation in the bioswale, removing trash/debris, and inspecting and maintaining outfalls to ensure they are not blocked. The Department of Environmental Permitting (DEP) will be responsible for structural maintenance per the existing agreement between Parks and DEP (Chapter 19, Article II).
- **Path Lighting MCDOT**: Currently MCDOT and Montgomery Parks are coordinating regarding project lighting. MCDOT will maintain the lighting if standard Montgomery County light posts and fixtures are installed. MCDOT and the project team are currently researching and investigating ways to amend the contract and maintain lighting if timers are included.
- Security System Parks: Montgomery Parks to own and maintain security cameras installed along the sidepath.

All parties reviewed and acknowledged that this outline should be considered a starting point for the detailed MOU that will be developed to document the final maintenance responsibilities. MCDOT will continue to coordinate with Montgomery Parks and all associated stakeholders to develop, review, and finalize a maintenance MOU for this project.

#### IMPACTS TO MONTGOMERY PARKS PROPERTIES

This project will have an impact on the Woodlawn Manor Park and MCDOT has been coordinating closely with M-NCPPC, Montgomery County Parks, and the Park Police to incorporate these stakeholders' concerns into its preliminary design. During early coordination with Parks, MCDOT redesigned the preliminary stormwater management system to shift the facilities to the west side of Norwood Road and significantly limit the property impacts to Woodlawn Manor Park. Other than the impacts to Woodlawn Manor Park, there are no additional impacts to M-NCPPC property.

#### **PUBLIC OUTREACH**

A newsletter was mailed to residents within the vicinity of the project in February 2021. A virtual public meeting was held on February 25, 2021. A link to the project website is below:

https://www.montgomerycountymd.gov/dot-dte/projects/heritageTTph1/index.html

The project team is continuing to coordinate with all project stakeholders as the design is finalized.

#### SECTION 3: 35% DESIGN PLANS FINDINGS AND ANALYSIS

The primary purpose of the proposed facility is to improve connectivity and safety for both pedestrians and bicyclists along Doctor Bird and Norwood Roads. Providing a ten-foot-wide sidepath facility parallel to Doctor Bird and Norwood Road in two distinct segments will fill in missing sidepath segments and improve the safety for users along the corridor and reduce the potential for crashes by minimizing conflict points with vehicles. The facility will improve the level of comfort for users of all ages and abilities by providing a dedicated facility with horizontal separation from the roadway in the form of a proposed grass buffer with a minimum width of five feet (primarily six feet wide or better) between the roadway and the proposed facility. The proposed facility will connect to existing shared use facilities on Olney Sandy Spring Road (MD 108) to the north and Layhill Road to the south.

#### **DESIGN ELEMENTS - TRANSPORTATION**

#### **ROADWAY DESIGN**

Doctor Bird Road and Norwood are considered to be Country Connectors with a 40-mph target speed under the Planning Board-approved Complete Streets Design Guide (CSDG). The road currently has a 35-mph posted speed along its length.

#### SHOULDER DESIGN

Doctor Bird Road and Norwood Road do not currently have paved shoulders, and short portions of the corridor are curbed (typically near new intersections and recently approved driveways). Along Norwood Road, the design will be adding a four-foot grass shoulder on the west side between the roadway and a drainage swale. If a shoulder is provided on a Country Connector, six feet is the minimum shoulder width identified in the CSDG. There is some concern with the east side of Norwood Road and the proximity of utility poles very close to the road edge. This is more of a Vision Zero concern along this corridor than the lack of shoulders. The project will not significantly change shoulder conditions along the east side of the road in this section.

#### **BUFFER DESIGN**

The buffers proposed in this design are primarily six feet or wider for the majority of the project limits. This is consistent with the minimum buffer width identified in the CSDG.

#### ENVIRONMENTAL REVIEW

#### ENVIRONMENTAL GUIDELINES

The project area does not contain any environmental buffers, streams, other sensitive features. The project area does contain 0.07 acres of forest. The project is within the Northwest Branch watershed

and partially within the Hawlings River Watershed, both of which have a Use Class IV<sup>1</sup> (recreational trout waters) designation.

The project proposes 0.07 acres of forest removal and has no impacts on a stream valley buffer, wetlands, or the 100-Year-Floodplain. The environmental impacts are necessary and unavoidable to achieve the design standards of creating the new pathway, and those impacts have been minimized to the greatest extent possible.

#### FOREST CONSERVATION

The project is exempt from submission of a forest conservation plan. A forest conservation exemption (#42021057E) was granted under the provisions of Section 22A-5(e) as "a state or county highway project." The exemption was confirmed on February 27, 2015.

While the project is exempt, the Applicant is still required under section 22A-9 of the County Code to:

- a) Minimize forest cutting, clearing, and loss of specimen trees to the extent possible while balancing other design, construction, and environmental standards. The constructing agency must make a reasonable effort to minimize the cutting or clearing of trees and other woody plants.
- b) If the forest to be cut or cleared for a county highway project equals or exceeds 20,000 square feet, the constructing agency must reforest a suitable area at the rate of one acre of reforestation for each acre of forest cleared.
- c) Mitigation for loss of specimen or champion trees. Mitigation amounts are based on the size and character of the tree.

The Applicant has minimized the limits of disturbance, minimizing the amount of forest clearing and impacts to large and specimen trees. However, the project still has impacts to forest and specimen trees. The Applicant has provided a plan to highlight forest loss/mitigation, tree save, and specimen tree mitigation.

#### Forest loss/mitigation

Even with minimizing the limits of disturbance and altering some design aspects there are some necessary and unavoidable impacts to forest. The project proposes to remove 0.07 acres (~3,050 square feet) of forest which is below the forest clearing threshold of .46 acres (20,000 square feet) allowed under the exemption. Therefore, the Applicant is not required to provide reforestation.

<sup>&</sup>lt;sup>1</sup> Environmental Guidelines: Guidelines for Environmental Management of Development in Montgomery County, 2021, page 58.

#### Tree Save

The Applicant has submitted a tree save plan in conjunction with the Mandatory Referral process to show how the impacts have been minimized and what stress reduction methods are being used to further minimize impacts on trees. Three specimen trees are being removed by this project.

#### PARKLAND IMPACTS

The proposed sidepath project along Norwood Road (MD182) will impact approximately 64,590 SF square feet of parkland at the frontage of Woodlawn Manor Cultural Park on the east side of Norwood Road. In addition, there are approximately 22,180 SF of proposed parkland impacts, at the Red Door Store Cultural Park on the west side of Norwood Road to accommodate stormwater management swales (Figure 9). There are no parkland impacts associated with the approximately 1,400-foot-long section along Doctor Bird Road starting at MD 108 (Olney Sandy Spring Road) and traveling south towards Norwood Road.

Woodlawn Manor Cultural Park is an 80-acre park dedicated to the preservation and interpretation of cultural resources. Woodlawn Manor is part of the National Park Service's National Underground Railroad Network to Freedom and is an active educational site serving thousands of children and families each year. The two main functions of Woodlawn Manor include the museum and Park Police operations:

- The museum located in the \$3.5 million renovated barn project, historic house, and Underground Railroad Experience Trail functions to tell the story of the Underground Railroad, Quakers, enslaved and Free African Americans of Sandy Spring and Montgomery County.
- 2) Park Police Special Operations have their headquarters at the park, where they prepare for emergency operations as well as stable and pasture their horses in barns and within electrified fencing.

The park is located in the Northwest Branch watershed and in the North Olney Manor Management Region.



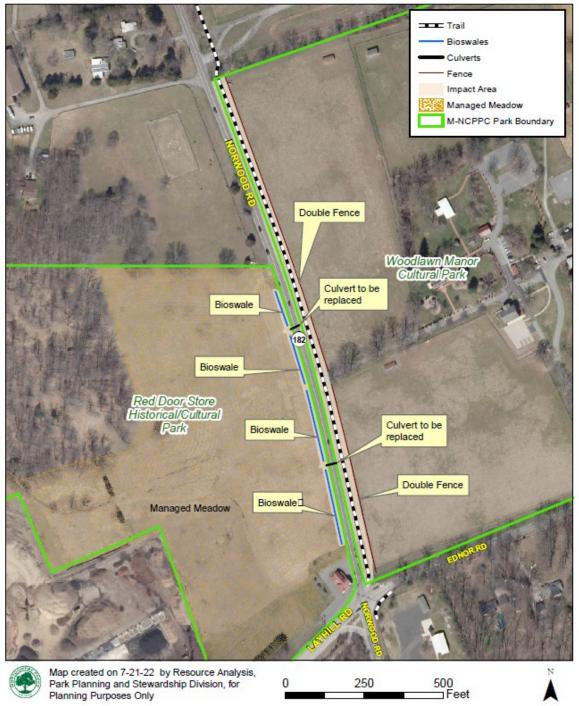


Figure 9 – Project Impacts to Parkland

Montgomery Parks supports the project's goal to improve pedestrian and cyclist connectivity to these important cultural resources and is working with MCDOT to reduce the impacts to parkland where feasible and provide appropriate mitigation for unavoidable impacts. The 10-foot-wide sidepath connector proposed on the east side of Norwood Road along Woodlawn Manor Cultural Park, includes a variable 10- to 15-foot-wide grass buffer between the path and the roadway (see Figure 7). The pasture will be reduced by 22 to 30 feet along the approximately 1,600-foot length on park property.

#### LIGHTING

Montgomery Parks supports pedestrian lighting (as described in Section 2) for the Heritage Triangle Trail as long as all sections of the path are lit to prevent a discontinuity of lighting along the trail. MCDOT will be responsible for the maintenance of the lighting posts and fixtures. Since there is currently no existing path lighting on the sections adjacent to park property Parks is requiring that conduit only be installed until lighting for the adjacent trail sections is funded. Additional coordination on lighting and minimizing impacts from lighting in this section will be required and included in the Memorandum of Understanding (MOU) and Park Construction Permit.

#### CULTURAL RESOURCES

Due to the historical context of this site, MCDOT has been in coordination with the Maryland Historical Trust, the Maryland State Historic Preservation Office (MHT) and Parks' Cultural Resources Staff. An archeological investigation was performed along the length of the project. Along the Norwood Road section, five shovel test pits identified a very low-density field scatter of seven artifacts, broadly dating from the late 18th to early 20th century. MHT determined that no additional Phase 2 archaeological investigations will be required and that the project will have no adverse effect on historic properties. MCDOT is continuing to coordinate with MHT and the Montgomery Planning's Historic Preservation (HP) staff and is pursuing Historic Area Work Permits for Woodlawn Manor and the Red Door Store. The MHT advised that "MCDOT should exercise caution during design and construction of the undertaking to ensure that project construction activities, equipment, and staging areas avoid any disturbance to the Woodlawn Manor property outside the Area of Potential Effects (APE)." Additionally, any archeological findings uncovered during construction shall be shared with Parks Cultural Resources Staff.

#### NATURAL RESOURCES

The proposed trail runs across the road frontage and the Woodlawn site and will impact landscape plantings including trees and shrubs. Nine red cedars (not specimen trees) on parkland at the intersection of Ednor Road and Norwood Road will be removed as part of the project (see Figure 10). At the entrance to Woodlawn Manor two large shrubs and one bur oak (not a specimen tree) will need to be removed to improve sightlines (see Figure 11). Parks and MCDOT will work collaboratively to fulfill Parks tree mitigation requirements through either the planting of new trees, mitigation fee payment, or other natural resource mitigation. Parks Urban Forester will provide guidance during the Park Construction Permit review to avoid and minimize impacts to the critical root zones to the large oaks lining the entrance to the park.

On the west side of Norwood Road, is the Red Door Store Cultural Park, an approximately 80-acre park which houses the Red Door Store, a distinctive historical example of a mid-19th century rural crossroads store. In 2018, architectural, engineering and market studies were undertaken to better understand the level of effort required to rehabilitate and activate the structure. The Red Door Store Cultural Park contains an approximately 58-acre meadow management site. Meadow areas at the site are primarily composed of old field non-native species, with some native grasses and wildflowers



Figure 10 - Red Cedars to be removed adjacent to Woodlawn Manor Cultural Park

present. Active management currently includes annual mowing to keep the site open and dominated by herbaceous species. It is currently identified as an important area for open habitat species within the Montgomery Parks system. The meadow and adjacent forested area slope down to Batchellor's Run, a restored tributary of Northwest Branch.



Figure 11 – Entrance to Woodlawn Manor Cultural Park

#### STORMWATER MANAGEMENT

Four bioswales are proposed along the west side of Norwood Road within the Red Door Store Cultural Park to provide required stormwater management for the project. Parks has committed to maintaining the stormwater facilities built by MCDOT on parkland per the agreement with the Montgomery County Department of Environmental Protection. Two SHA culverts will be replaced under Norwood Rd which currently do not function causing flooding on the roadway. Both culverts outfall into the meadow area on the west side of Norwood Rd. Parks will require MCDOT to construct stable and environmentally sensitive outfall structures that avoid erosion and channelization in the meadow.

#### SAFETY AND SECURITY

Montgomery Parks looks forward to the improved pedestrian and cycling access to Woodlawn Cultural Park, however the new path does present new challenges for safety and security. Figure 12 shows the proposed shared-use path plan view at the entrance to Woodlawn Manor. Parks Staff have noted concerns with the vehicular traffic utilizing this entrance as a cut-through and additional measures should be taken to improve the safety of the path crossing including better signage to reduce thru traffic, a marked crossing and detectable warning strips for pedestrian and cyclists, and other appropriate measures identified during detailed design. The existing signage at the entrance to Woodlawn will need to be relocated and replaced at the direction of Parks Staff.

Along the length of the east side of the path, at the request of Park Police, a double fence separated by a 10-foot width is proposed to separate the equestrian pasture from the path for the safety of both the

horses and path users. The fence must match the existing fence in design and materials. In addition, due to increased access and activity that the path will provide around the Park Police headquarters and equestrian facilities MCDOT will also provide four security cameras along the frontage of the Woodlawn Property. Finally, MCDOT will provide a trail counter along this section of the path to Parks' specification to allow for user data tracking and analysis.

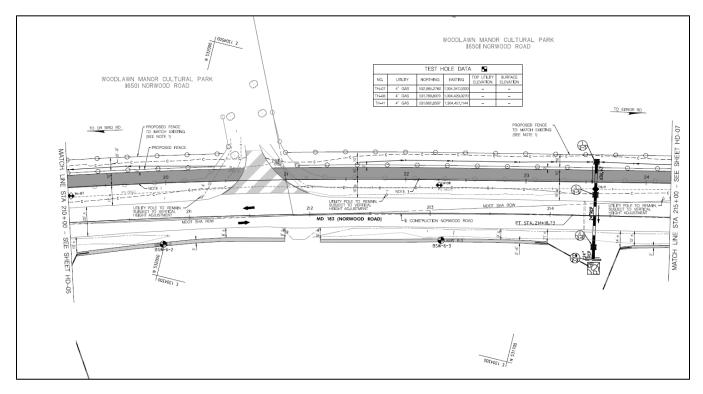


Figure 12 – Plan view of the proposed Sidepath at the Entrance of Woodlawn Manor Cultural Park

#### PARK CONSTRUCTION PERMIT AND MOU

Parks and MCDOT have agreed that Parks will maintain ownership over the land and no easements will be granted. A Memorandum of Understanding (MOU) will outline the long-term maintenance agreements for each agency.

MCDOT will be required to obtain a Park Construction Permit from Montgomery County Department of Parks prior to commencement of any construction activities on parkland. Plans submitted for Park Construction Permit review must include existing topography, utilities, and identify and locate all trees (with size and species) larger than 6" diameter at breast heigh (DBH) and greater within 100 feet of the proposed limit of disturbance on park property. Mitigation for impacts to Park trees (with a 6" DBH or greater) damaged or removed, shall either be (1) replacement planting on parkland at a rate of one inch to one inch diameter or (2) a monetary per inch caliper basis at the rate of \$100/diameter inch, to be paid to Montgomery Parks prior to completion of construction. Tree impacts will be determined by an M-NCPPC forester prior to construction based on the Final Design. During Park Construction Permit Review, Parks Staff will work with MCDOT to minimize impacts to parkland to the greatest extent possible and avoid all critical resources identified.

#### HISTORIC PRESERVATION

MCDOT's consultant completed detailed cultural resources analysis and submitted a Phase 1 Cultural Resources Report to the Maryland Historic Trust (MHT) in June 2021. MHT responded in August 2021 and determined that no additional Phase 2 archaeological investigations will be required and that the project will have no adverse effect on historic properties. The Applicant is continuing to coordinate with MHT and Montgomery Planning's Historic Preservation (HP) staff as the design progresses forward. Per coordination with HP staff, the Applicant has initiated the submission of draft Historic Area Work Permits (HAWP) via the online portal for the Red Door Store and Woodlawn properties.

The Doctor Bird/Norwood Road sidepath project is adjacent to several sites on the Master Plan for Historic Preservation including Woodlawn (28/14), the Holland Store and House/Red Door Store (23-119), and the Doctor Bird House (23/121). The project limits of disturbance will not encroach on the Doctor Bird House master plan site; but impacts both the Woodlawn and the Holland Store and House/Red Door Store sites, so a HAWP is required before the work begins.

Historic Preservation Staff supports the project and is not concerned about the potential impacts the work will have on the designated sites. The sidepath, lighting, and relocated fencing adjacent to Woodlawn will not significantly impact the historic character of the site's environmental setting. Additionally, HP Staff finds the re-grading necessary for the bioswale and culverts installed on the Holland Store and House/Red Door Store site will only minimally impact the visual character of the site.

A Phase 1 archaeological survey was completed under the MHT's oversite. MHT determined that no further archaeology in the project area was warranted.

Historic Preservation Staff encourages the Applicant to apply for a HAWP around the 70% design phase or at their earliest convenience.

#### MASTER PLAN CONFORMANCE

The Heritage Triangle Trail – Phase 1 Sidepath is subject to three master plans: the 1998 Ashton Sandy Spring Master Plan, the 2018 Bicycle Master Plan and the 2018 Master Plan of Highways and Transitways.

The 2018 Bicycle Master Plan includes the following recommendation for MacArthur Boulevard:

BIKEWAY	FROM	то	FACILITY TYPE	BIKEWAY TYPE
Doctor Bird Road (MD 182)	Olney Sandy Spring Road (MD 108)	Norwood Road	Separated Bikeway	Sidepath
Norwood Road (MD 182)	Doctor Bird Road (MD 182)	Layhill Road/Ednor Road	Separated Bikeway	Sidepath

The 2018 Master Plan of Highways and Transitways and the 1998 Ashton Sandy Spring Master Plan classifies Doctor Bird Road/Norwood Road (MD 182) from Olney Sandy Spring Road to Layhill Road/Ednor Road as a two-lane major highway with a master plan right-of-way of 120 feet. Per the Complete Streets Design Guide, these roads would be classified as a Country Connector.

The project is in conformance with the three plans it is subject to: the 1998 Ashton Sandy Spring Master Plan, the 2018 Bicycle Master Plan and the 2018 Master Plan of Highways and Transitways.

### SECTION 4: COMMUNITY OUTREACH

A newsletter was mailed to residents within the vicinity of the project in February 2021. A virtual public meeting was held on February 25, 2021. A link to the project website is below:

https://www.montgomerycountymd.gov/dot-dte/projects/heritageTTph1/index.html

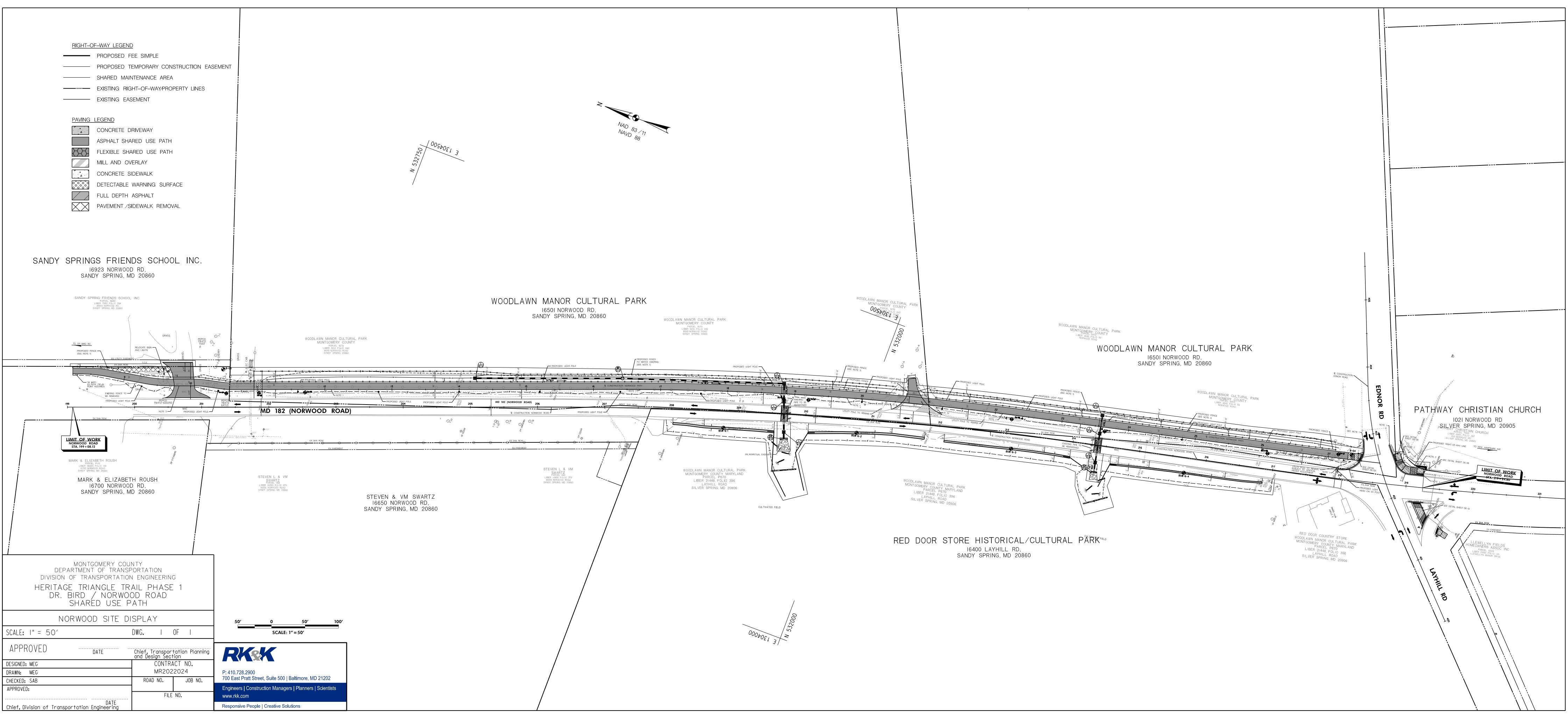
The project team is continuing to coordinate with all project stakeholders as the design is finalized.

### SECTION 5: CONCLUSION

Based on information provided by the Applicant, Planning Staff recommends approval of the Mandatory Referral with comments listed on pages 3 and 4 of this report to be transmitted to the Montgomery County Department of Transportation. The Applicant is requested to reply in writing to the Planning Board, addressing all comments.

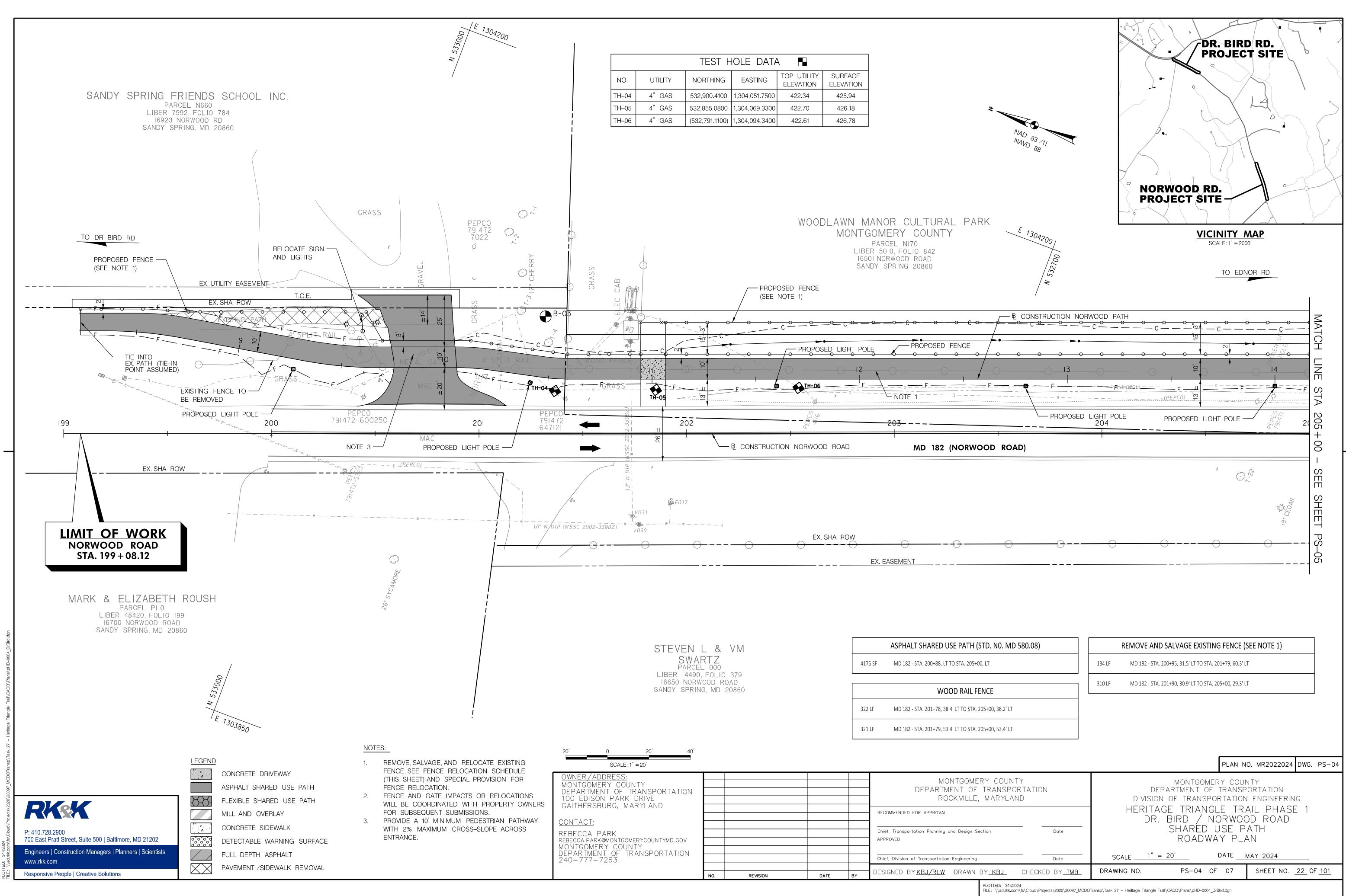
### ATTACHMENTS

Attachment A: 35 Percent Design Plans









## ASPHALT SHARED USE PATH (STD. NO. MD 580.08)

5022 SF MD 182 - STA. 205+00, LT TO STA. 210+00, LT

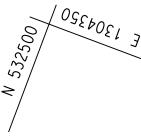
## WOOD RAIL FENCE

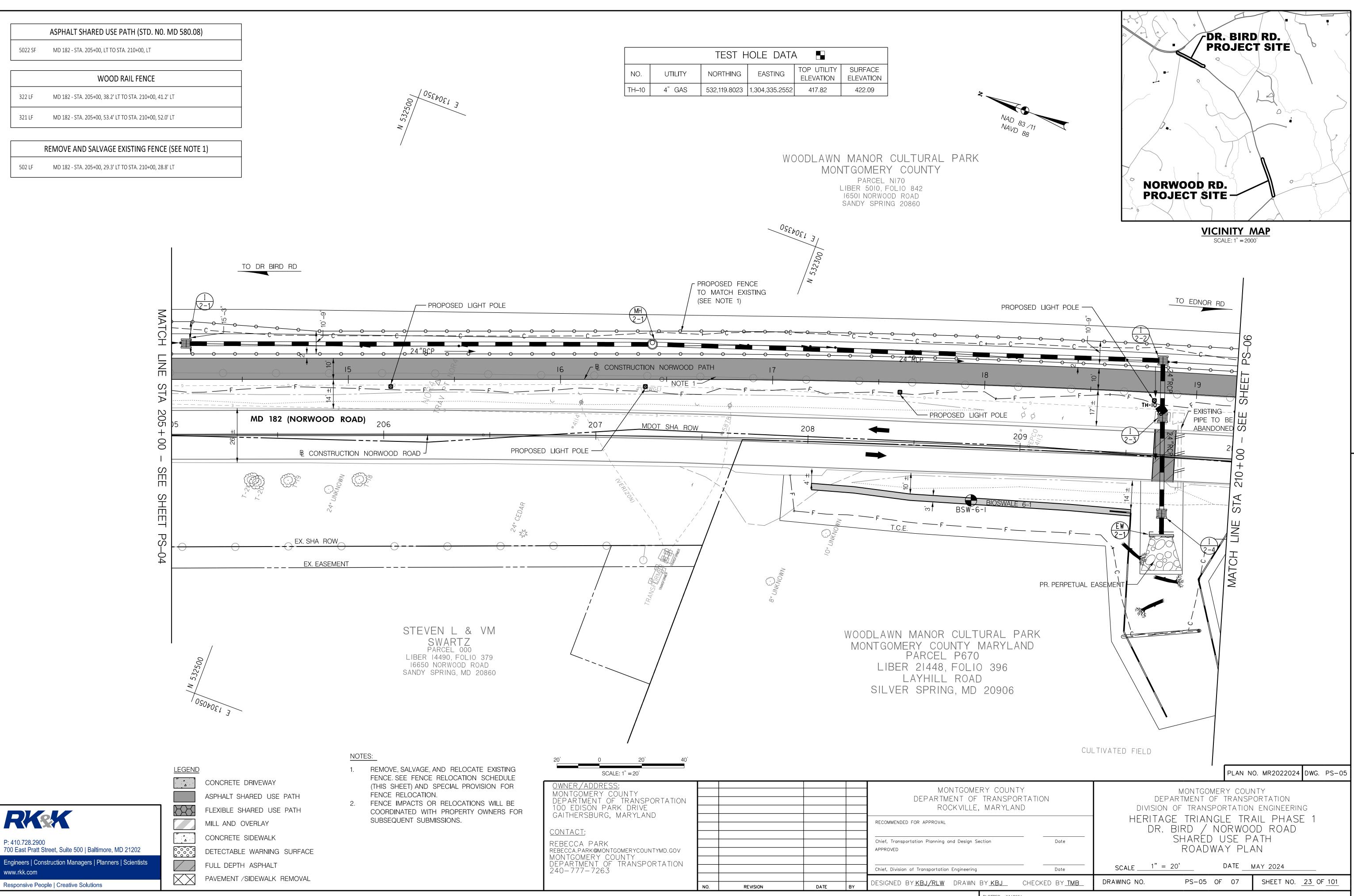
MD 182 - STA. 205+00, 38.2' LT TO STA. 210+00, 41.2' LT 322 LF

MD 182 - STA. 205+00, 53.4' LT TO STA. 210+00, 52.0' LT 321 LF

# REMOVE AND SALVAGE EXISTING FENCE (SEE NOTE 1)

502 LF MD 182 - STA. 205+00, 29.3' LT TO STA. 210+00, 28.8' LT





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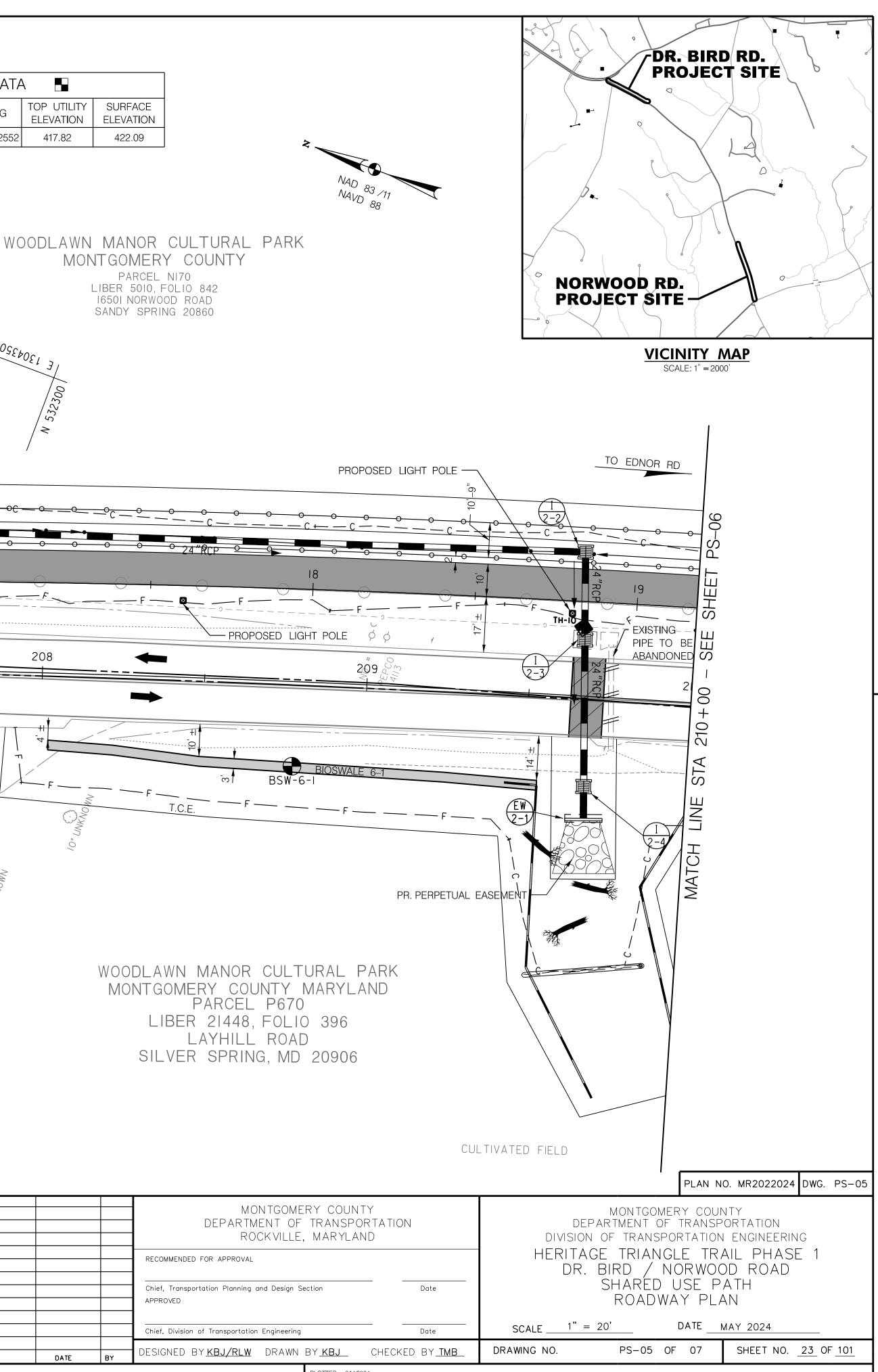
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TEST HOLE DATA							
NO.	NO. UTILITY NORTHING EASTING TOP UTILITY SURFACE ELEVATION ELEVATION						
TH–10	4" GAS	532,119.8023	1,304,335.2552	417.82	422.09		



PLOTTED: 314/2024 FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097\_MCDOTransp\Task 27 - Heritage Triangle Trail\CADD\Plans\pHD-0005\_DrBird.dgn

## FINE MILLING ASPHALT PAVEMENT 1 INCH TO 2.5 INCH DEPTH

69 SY MD 182 - STA. 211+27, LT TO STA. 212+00, LT

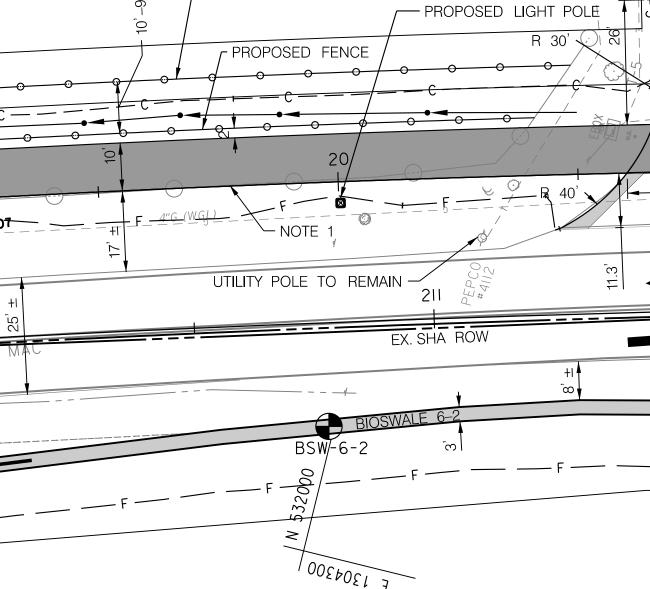
## ASPHALT SHARED USE PATH (STD. NO. MD 580.08)

1452 SF MD 182 - STA. 210+00, LT TO STA. 211+47, LT

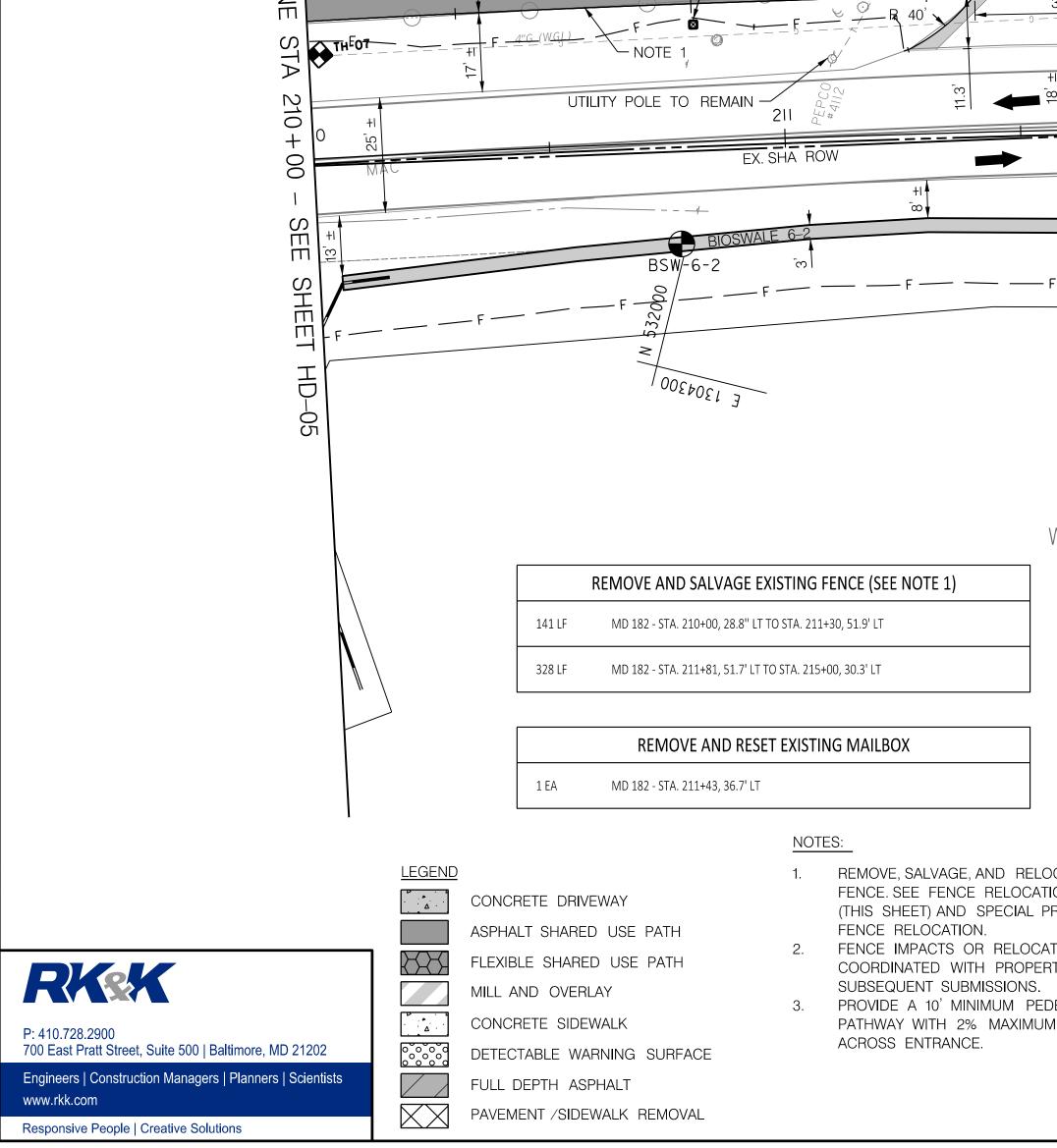
3273 SF MD 182 - STA. 211+69, LT TO STA. 215+00, LT

	WOOD RAIL FENCE
124 LF	MD 182 - STA. 210+00, 41.2' LT TO STA. 211+21, 39.2' LT
132 LF	MD 182 - STA. 210+00, 52.0' LT TO STA. 211+30, 51.9' LT
322 LF	MD 182 - STA. 211+81, 51.7' LT TO STA. 215+00, 51.0' LT
312 LF	MD 182 - STA. 211+90, 40.9' LT TO STA. 215+00, 40.3' LT

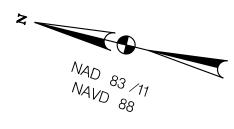




(SEE NOTE 1)



TO DR BIRD RD

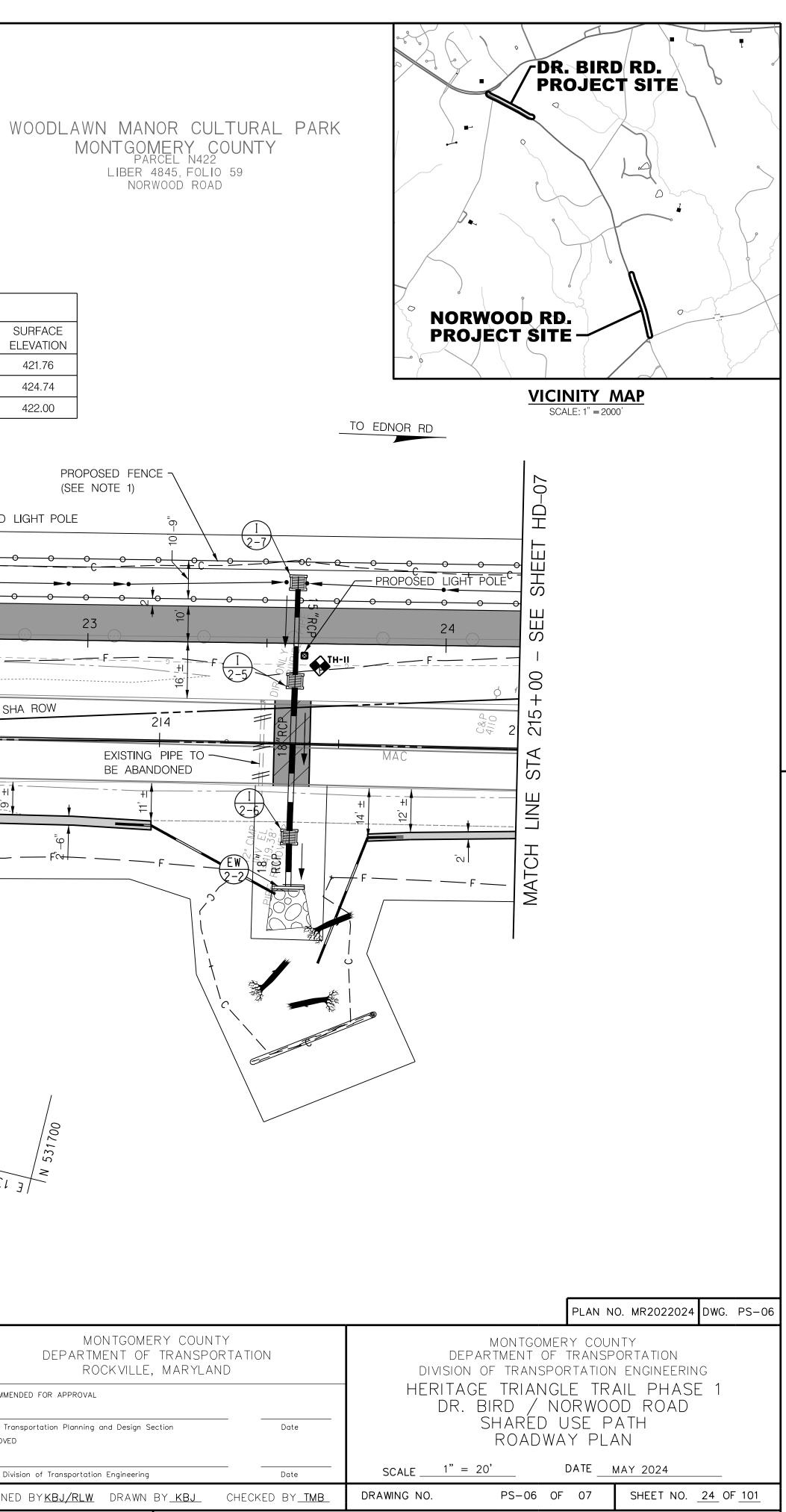


			TEST H	IOLE DATA			
	NO.	UTILITY	NORTHING	EASTING	TOP UTILITY ELEVATION	SURFACE ELEVATION	
	TH-07	4" GAS	532,085.2900	1,304,347.0200	419.60	421.76	
	TH-08	4" GAS	531,791.9800	1,304,426.4900	419.22	424.74	
$\sim$	TH-11	4" GAS	531,655.9400	1,304,458.2100	418.88	422.00	
						PR	DPOSED FENCE -
	OLE						E NOTE 1)
10, -9,						D LIGHT POLE	÷
$\begin{array}{c c} & R & 60' \\ \hline & & C & - & - & - & C & - & - & - & C \\ \hline & & & C & - & - & - & C & - & - & - & C \\ \hline \end{array}$		⊖⊖ 	<u> </u>	°c_/		o	; 
			•	→•/ → •/ ↔		<b>→</b> •	
		<sup>40</sup> <sup>40</sup> <sup>40</sup> <sup>40</sup> <sup>40</sup> <sup>40</sup>					23
38.7'	<u>+</u> E		9 9	<b>H-08</b>	<u> </u>		
R 70' <u>р</u> NOTE 3	¢	, NOTE 1-		(WGL)			
ti UTILITY POLE TO REMA Ω Ω Ω 212	IN -/ 11   + #		213		EX.	SHA ROW	214
MD 182 (NORWOOD RO	AD)		NSTRUCTION N	IORWOOD ROA	D		EXISTING PI BE ABANDO
	·		1	1			+I 
$\sim$	/ALE 6-	-3	BSW-	-6-3		٩	
— F — + — F — — F + — F — — F — F —		F	F		— F —— —	F ~ + F ~ + + + + + + + + + + + + + + +	— — — F -

WOODLAWN MANOR CULTURAL PARK MONTGOMERY COUNTY MARYLAND PARCEL P670 LIBER 21448, FOLIO 396 LAYHILL ROAD SILVER SPRING, MD 20906

E 1304300

		NO.	REVISION	DATE	BY	DESIGNED BY <u>k<b>bj/rlw</b></u> drawn by <u>k</u>
	240-777-7263					Chief, Division of Transportation Engineering
	REBECCA.PARK@MONTGOMERYCOUNTYMD.GOV MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION					APPROVED
JM CROSS-SLOPE	REBECCA PARK					Chief, Transportation Planning and Design Section
	<u>CONTACT:</u>					-
CHIT OWNERS FOR	GAITHERSBURG, MARYLAND					RECOMMENDED FOR APPROVAL
ATIONS WILL BE ERTY OWNERS FOR	DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE					DEPARTMENT OF TRA Rockville, Ma
PROVISION FOR	<u>owner/address:</u> Montgomery county					MONTGOMERY (
OCATE EXISTING	SCALE: 1" = 20'					
	20' 0 20' 40'					



PLOTTED: 3142024 FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097\_MCDOTransp\Task 27 - Heritage Triangle Trail\CADD\Plans\pHD-0006\_DrBird.dgn

## ASPHALT SHARED USE PATH (STD. NO. MD 580.08)

5022 SF MD 182 - STA. 205+00, LT TO STA. 210+00, LT

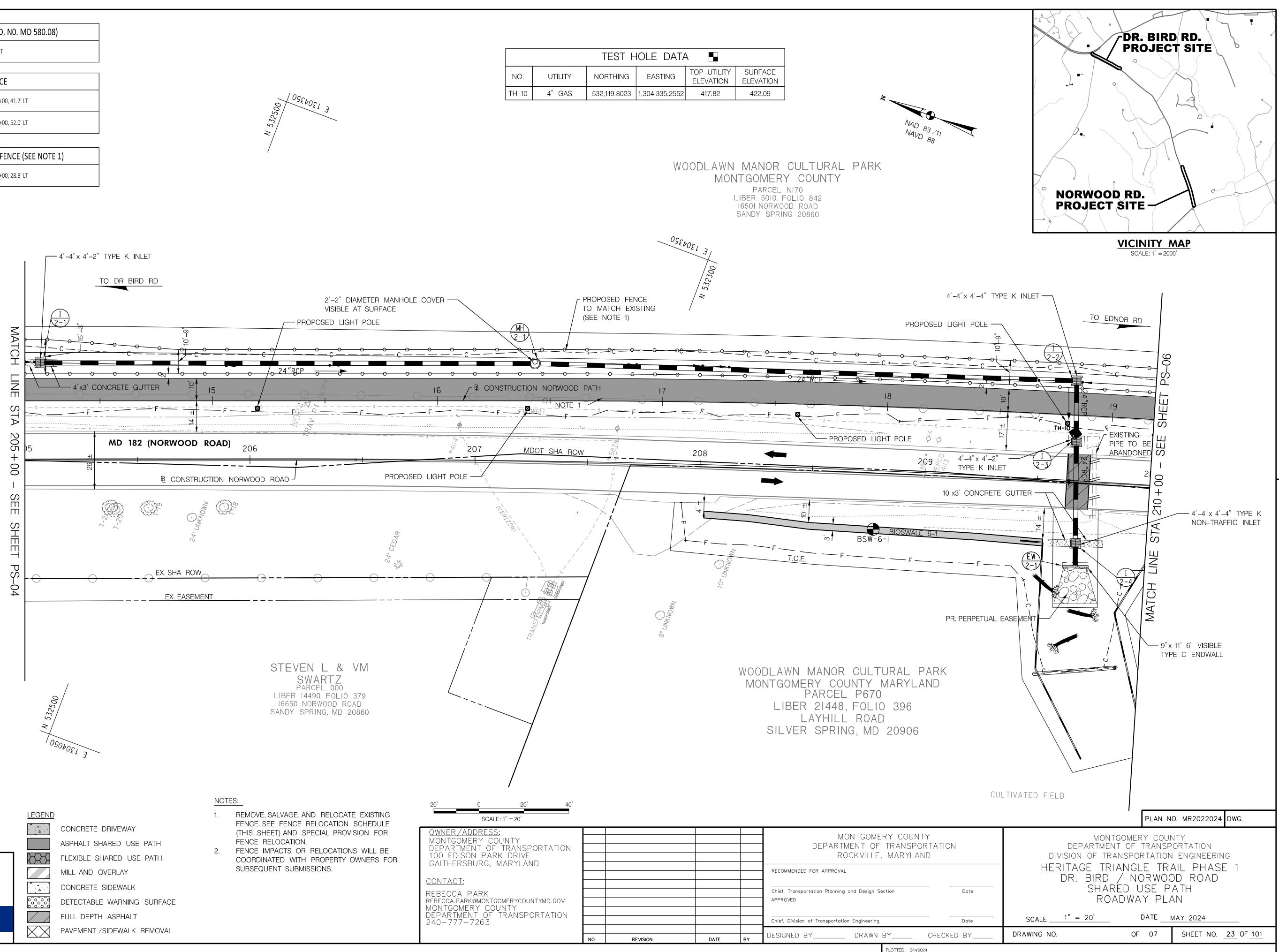
## WOOD RAIL FENCE

MD 182 - STA. 205+00, 38.2' LT TO STA. 210+00, 41.2' LT 322 LF

321 LF MD 182 - STA. 205+00, 53.4' LT TO STA. 210+00, 52.0' LT

## REMOVE AND SALVAGE EXISTING FENCE (SEE NOTE 1)

502 LF MD 182 - STA. 205+00, 29.3' LT TO STA. 210+00, 28.8' LT



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TEST HOLE DATA							
NO.	NO. UTILITY NORTHING EASTING TOP UTILITY SURFACE ELEVATION ELEVATION						
TH–10	4" GAS	532,119.8023	1,304,335.2552	417.82	422.09		

PLOTTED: 314/2024 FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097\_MCDOTransp\Task 27 - Heritage Triangle Trail\CADD\Plans\pHD-0005\_DrBird.dgn

3081 SF MD 182 - STA. 215+00, LT TO STA. 218+09, LT

MD 182 - STA. 215+00, 30.3' LT TO STA. 217+41, 54.1' LT

5 INCH CONCRETE SIDEWALK				
232 SF	MD 182 - STA. 218+09, LT TO STA. 218+31, LT			
648 SF	MD 182 - STA. 218+69, LT TO STA. 219+24, LT			
352 SF	MD 182 - STA. 219+10, RT TO STA. 219+35, RT			

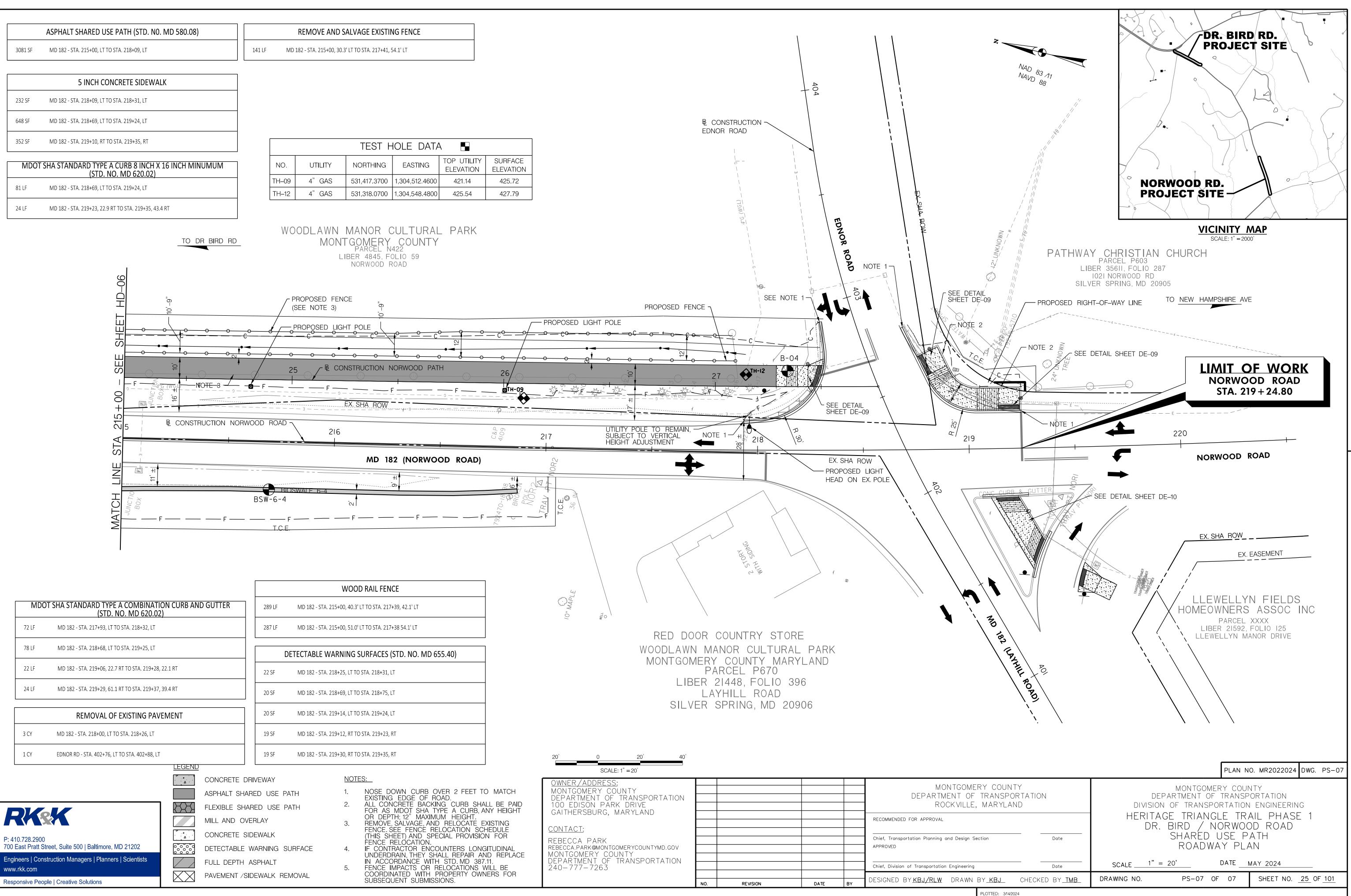
# MDOT SHA STANDARD TYPE A CURB 8 INCH X 16 INCH MINUMUM

81 LF MD 182 - STA. 218+69, LT TO STA. 219+24, LT

24 LF	MD 182 - STA. 219+23, 22.9 RT TO STA. 219+35, 43.4 RT

TEST HOLE DATA								
NO.	UTILITY	NORTHING	EASTING	TOP U ELEV				
TH-09	4" GAS	531,417.3700	1,304,512.4600	42				
TH-12	4" GAS	531,318.0700	1,304,548.4800	42				

# MONTGOMERY COUNTY PARCEL N422 LIBER 4845, FOLIO 59



MDOT SHA STANDARD TYPE A COMBINATION CURB AND GUTTER (STD. NO. MD 620.02)					
72 LF	MD 182 - STA. 217+93, LT TO STA. 218+32, LT				
78 LF	MD 182 - STA. 218+68, LT TO STA. 219+25, LT				
22 LF	MD 182 - STA. 219+06, 22.7 RT TO STA. 219+28, 22.1 RT				
24 LF	MD 182 - STA. 219+29, 61.1 RT TO STA. 219+37, 39.4 RT				
	REMOVAL OF EXISTING PAVEMENT				
3 CY	MD 182 - STA. 218+00, LT TO STA. 218+26, LT				

	WOOD RAIL FENCE				
289 LF	MD 182 - STA. 215+00, 40.3' LT TO STA. 217+39, 42.1' LT				
287 LF	MD 182 - STA. 215+00, 51.0' LT TO STA. 217+38 54.1' LT				
DETECTABLE WARNING SURFACES (STD. NO. MD 655.40)					
22 SF	MD 182 - STA. 218+25, LT TO STA. 218+31, LT				
20 SF	MD 182 - STA. 218+69, LT TO STA. 218+75, LT				
20 SF	MD 182 - STA. 219+14, LT TO STA. 219+24, LT				
19 SF	MD 182 - STA. 219+12, RT TO STA. 219+23, RT				
19 SF	MD 182 - STA. 219+30, RT TO STA. 219+35, RT				

1 CY

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CONCRETE DRIVEWAY
ASPHALT SHARED USE PATH
FLEXIBLE SHARED USE PATH
MILL AND OVERLAY
CONCRETE SIDEWALK
DETECTABLE WARNING SURFACE
FULL DEPTH ASPHALT
PAVEMENT /SIDEWALK REMOVAL

NOTES:
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NOSE DOWN CURB OVER 2 F EXISTING EDGE OF ROAD. ALL CONCRETE BACKING CUP FOR AS MDOT SHA TYPE A C OR DEPTH; 12" MAXIMUM HER REMOVE, SALVAGE, AND RELOC FENCE. SEE FENCE RELOCATIO (THIS SHEET) AND SPECIAL PF FENCE RELOCATION. IF CONTRACTOR ENCOUNTERS UNDERDRAIN, THEY SHALL REF IN ACCORDANCE WITH STD. N FENCE IMPACTS OR RELOCAT	<u>.</u>
IF CONTRACTOR ENCOUNTERS UNDERDRAIN, THEY SHALL REF IN ACCORDANCE WITH STD. N	NOSE DOWN CURB OVER 2 F EXISTING EDGE OF ROAD. ALL CONCRETE BACKING CUF FOR AS MDOT SHA TYPE A C OR DEPTH; 12" MAXIMUM HEIG REMOVE, SALVAGE, AND RELOC FENCE. SEE FENCE RELOCATIO (THIS SHEET) AND SPECIAL PF
	IF CONTRACTOR ENCOUNTERS UNDERDRAIN, THEY SHALL REF IN ACCORDANCE WITH STD. N FENCE IMPACTS OR RELOCAT

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## ASPHALT SHARED USE PATH (STD. NO. MD 580.08)

5022 SF MD 182 - STA. 205+00, LT TO STA. 210+00, LT

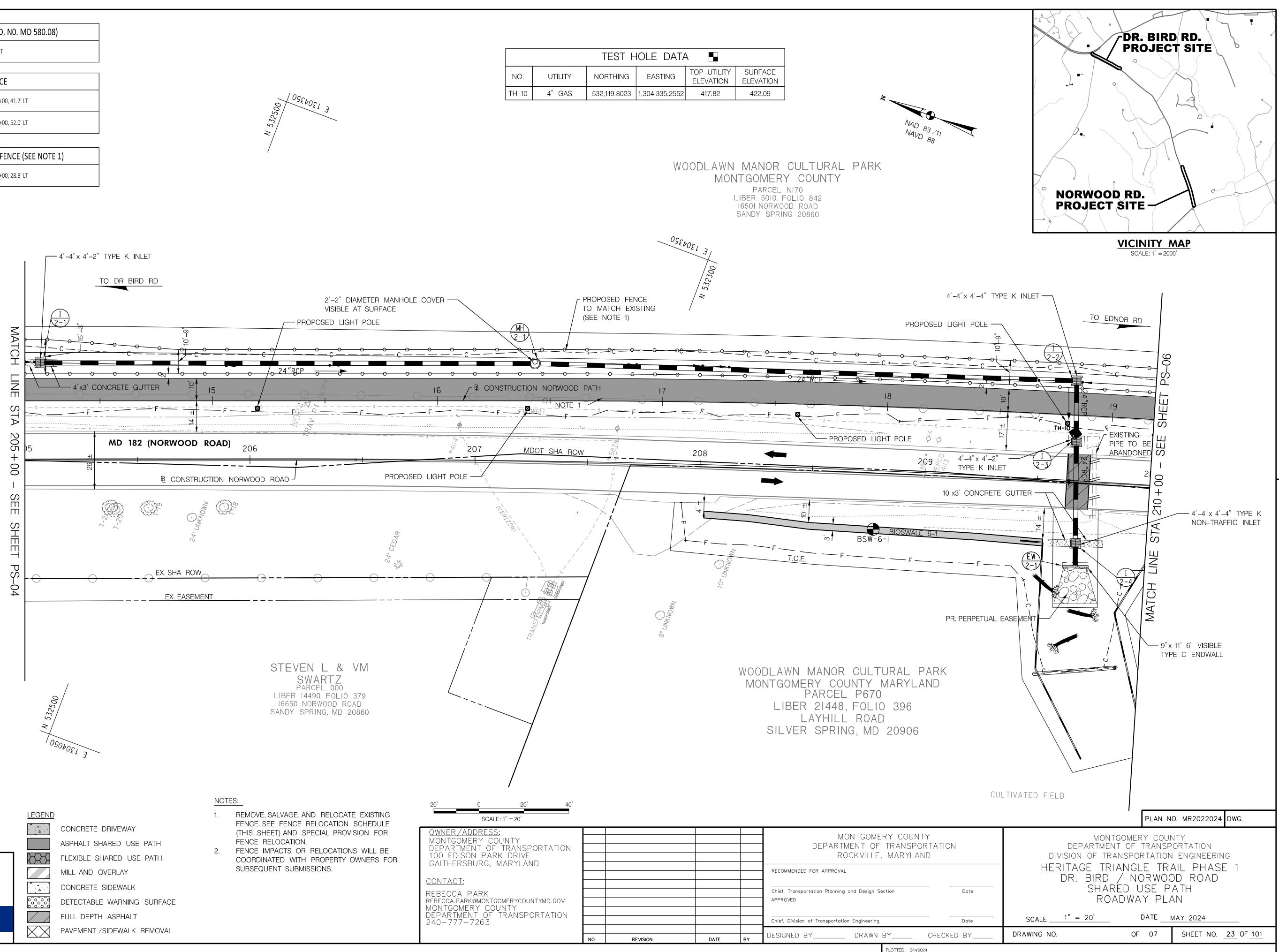
## WOOD RAIL FENCE

MD 182 - STA. 205+00, 38.2' LT TO STA. 210+00, 41.2' LT 322 LF

321 LF MD 182 - STA. 205+00, 53.4' LT TO STA. 210+00, 52.0' LT

## REMOVE AND SALVAGE EXISTING FENCE (SEE NOTE 1)

502 LF MD 182 - STA. 205+00, 29.3' LT TO STA. 210+00, 28.8' LT



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TEST HOLE DATA							
NO.	UTILITY	NORTHING	EASTING	TOP UTILITY ELEVATION	SURFACE ELEVATION		
TH–10	4" GAS	532,119.8023	1,304,335.2552	417.82	422.09		

PLOTTED: 314/2024 FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097\_MCDOTransp\Task 27 - Heritage Triangle Trail\CADD\Plans\pHD-0005\_DrBird.dgn

## FINE MILLING ASPHALT PAVEMENT 1 INCH TO 2.5 INCH DEPTH

69 SY MD 182 - STA. 211+27, LT TO STA. 212+00, LT

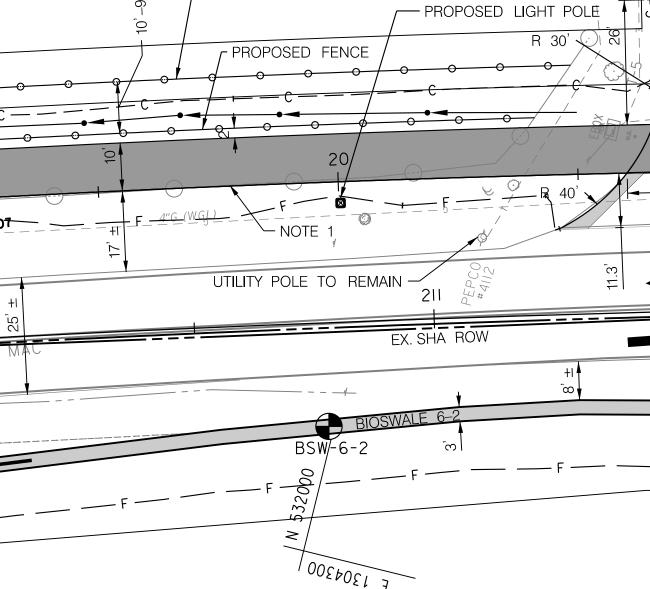
## ASPHALT SHARED USE PATH (STD. NO. MD 580.08)

1452 SF MD 182 - STA. 210+00, LT TO STA. 211+47, LT

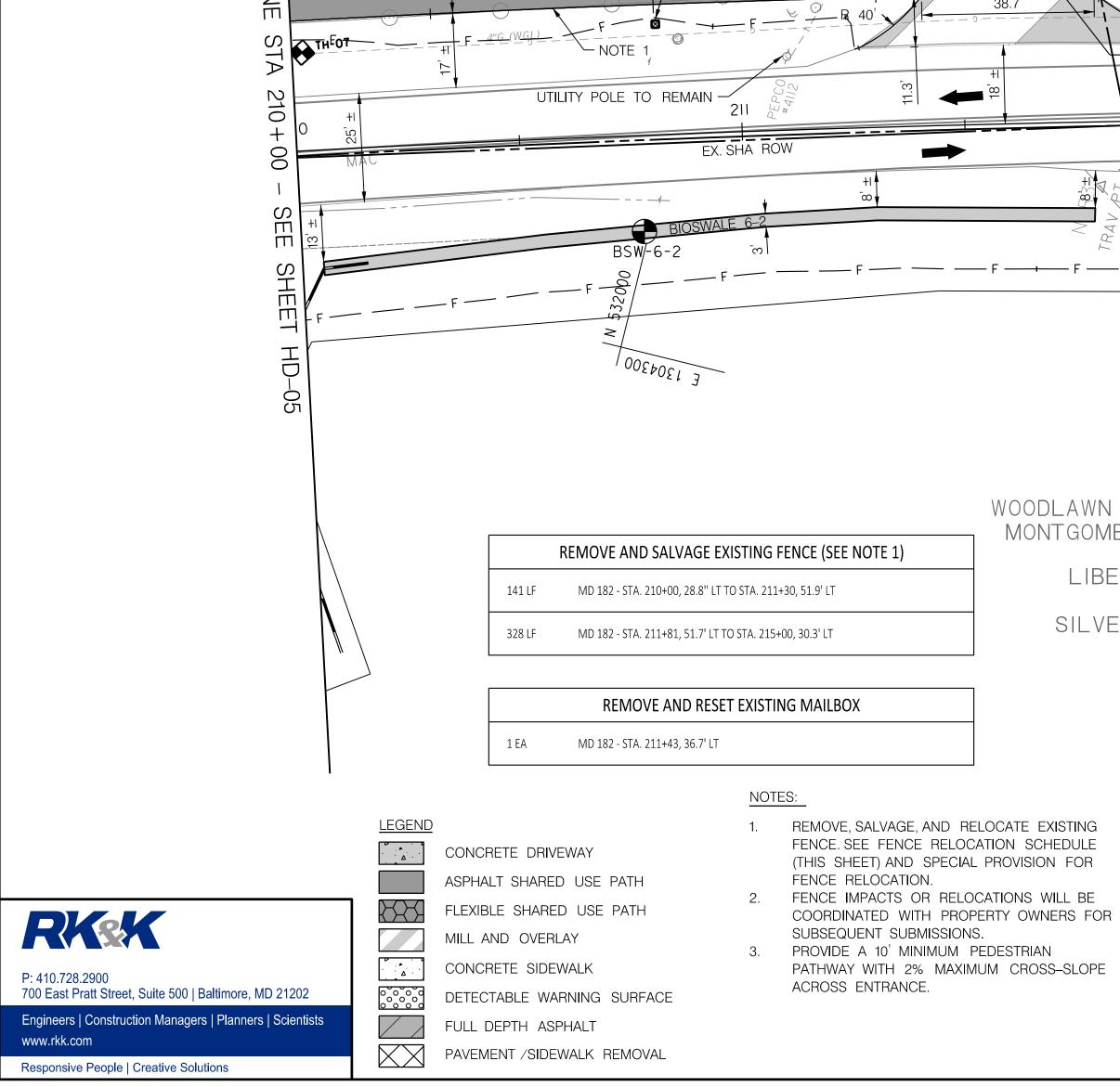
3273 SF MD 182 - STA. 211+69, LT TO STA. 215+00, LT

	WOOD RAIL FENCE
124 LF	MD 182 - STA. 210+00, 41.2' LT TO STA. 211+21, 39.2' LT
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322 LF	MD 182 - STA. 211+81, 51.7' LT TO STA. 215+00, 51.0' LT
312 LF	MD 182 - STA. 211+90, 40.9' LT TO STA. 215+00, 40.3' LT

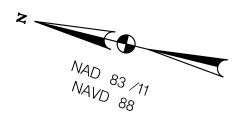




r proposed fence (SEE NOTE 1)



TO DR BIRD RD



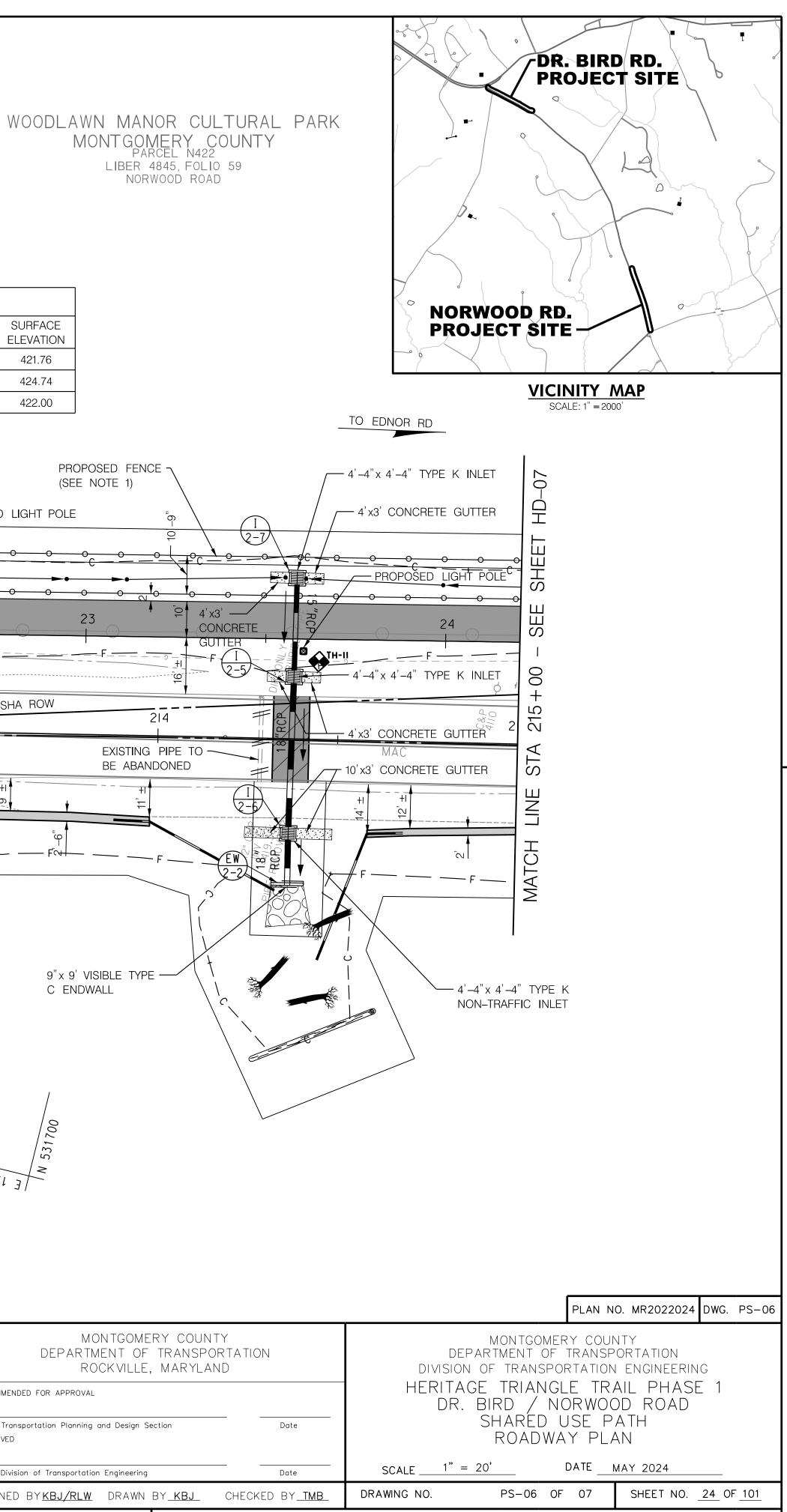
	TRAV PT		BIOSWALE 6-3	}	BSW-	-6-3			
	NDR3		RWOOD ROAD)			IORWOOD ROA	D		EXISTING PI BE ABANDO
 18	2	UTILITY P	OLE TO REMAIN		213		EX.	SHA ROW	214
30.7 0 — — —	NOTE 3	R 70'	<u>ع ــــــــــــــــــــــــــــــــــــ</u>	NOTE 1-/		(WGL)	<u> </u>		
38.7				22					23
23.1'		<u> </u>					C		
, Ç, Ë	R 60'		<u>9</u>						-0000000000000-
			OSED LIGHT POLE						DPOSED FENCE - E NOTE 1)
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			TH-07 TH-08	4" GAS 4" GAS	532,085.2900 531,791.9800	1,304,347.0200 1,304,426.4900	419.60 419.22	421.76 424.74	
C 7-8			NO.	UTILITY	NORTHING	EASTING	TOP UTILITY ELEVATION	SURFACE ELEVATION	
					IEST F	IOLE DATA			

9" x 9' VISIBLE TYPE -C ENDWALL

WOODLAWN MANOR CULTURAL PARK MONTGOMERY COUNTY MARYLAND PARCEL P670 LIBER 21448, FOLIO 396 LAYHILL ROAD SILVER SPRING, MD 20906

|E 1304300

SCALE: 1" = 20' <u>OWNER/ADDRESS:</u> MONTGOMERY COUNTY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND GAITHERSBURG, MARYLAND RECOMMENDED FOR APPROVAL <u>CONTACT:</u> Chief, Transportation Planning and Design Section REBECCA PARK REBECCA.PARK@MONTGOMERYCOUNTYMD.GOV MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 240-777-7263 APPROVED Chief, Division of Transportation Engineering DESIGNED BY<u>k**bj/rlw**</u> drawn by<u>k**bj**</u> NO. REVISION DATE BY



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Photo 1: Example of a K inlet with concrete gutter. Note that the gutter is not used for all K inlets and where it is used, it may be used on both sides.



Photo 2: Example of a manhole in grass.



Photo 3: Example manhole cover.



Photo 4: Example of type C endwall with outfall protection.