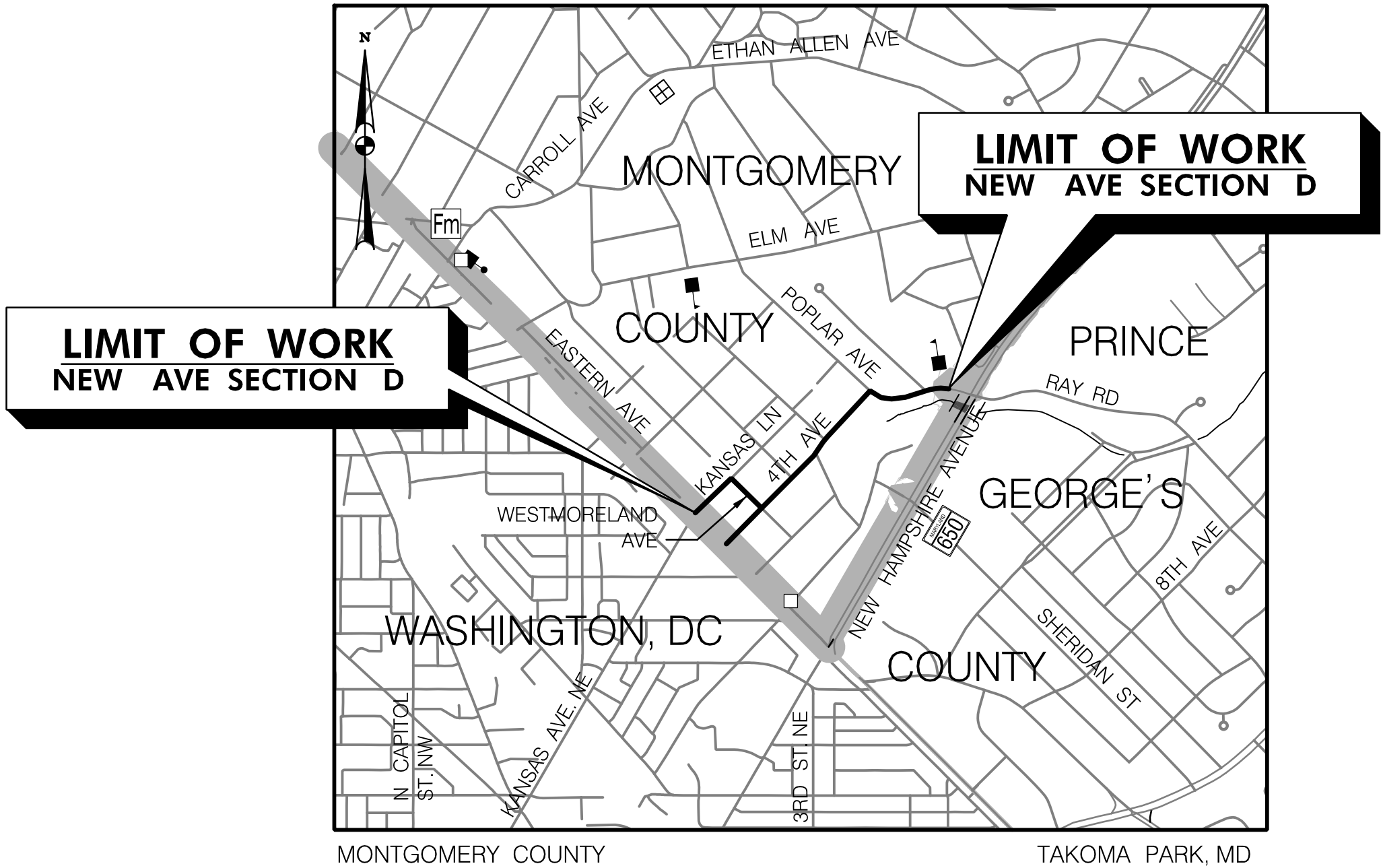


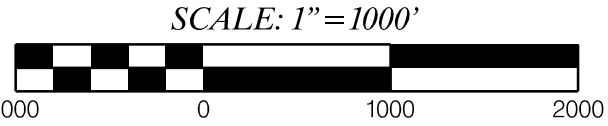
THE CITY OF TAKOMA PARK
AND THE METROPOLITAN WASHINGTON
COUNCIL OF GOVERNMENTS (MWCOC)
NEW AVE BIKEWAY SECTION D
DISTRICT CONNECTOR
MWCOC CONTRACT NO. 21-093

INDEX OF SHEETS

SHEET NO.	DRAWING NO.	SHEET NAME
1	TS-01	TITLE SHEET
2	AB-01	NOTES, ABBREVIATIONS, AND SYMBOLS
3	GS-01	GEOMETRY SHEET
4	HT-01	TYPICAL SECTIONS
5-9	HD-01 TO HD-05	PLAN SHEETS



LOCATION MAP



PROJECT LENGTH = 0.51 MILES

HORIZONTAL DATUM	NAD 83 /11
VERTICAL DATUM	NAVD 88

30% DESIGN SUBMITTAL
FEBRUARY 2023
NOT FOR CONSTRUCTION



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ABBREVIATIONS

AASHTO American Association of State Highway Transportation Officials	HDWL..... Headwall	RW or RW... Right of Way
ADT.....Average Daily Traffic	HERCP.....Horizontal Elliptical Reinforced Concrete Pipe	RCP Reinforced Concrete Pipe
AHD..... Ahead	HP.....High Point	RCPP Reinforced Concrete Pressure Pipe
APPROX..... Approximate	IN..... Inch	R.Q.D. Rock Quality Designation
B or BL..... Baseline	I.S.T..... Inlet Sediment Trap	R.M. Rootmat
BK Back /Book	INV.....Invert	S South
BIT..... Bituminous	J.B.....Junction Box	SAN..... Sanitary Sewer
B.C..... Bituminous Concrete	K K Inlet	SB or SB Southbound
B.M..... Bench Mark	L Length	S.D. Storm Drain
BOT..... Bottom	LF Linear Feet	S.D.D. Surface Drain Ditch
C.C. Center of Curve	L.L..... Liquid Limit	SE Super Elevation
CAP..... Corrugated Aluminum Pipe	LP Low Point	SF Silt Fence
CAPA..... Corrugated Aluminum Pipe Arch	L.P. Light Pole	SF Square Feet
CATV Cable Television	LT..... Left	SHT. Sheet
C.B.R..... California Bearing Ratio	MAC.....Macadam	SPP Structural Steel Plate Pipe
℄ or CL..... Centerline	M.C. Moisture Content	SPPA Structural Steel Plate Pipe Arch
CL..... Class	MAX..... Maximum	S.P.T. Standard Penetration Testing
CLF..... Chainlink Fence	M.D.D..... Maximum Dry Content	SRP Steel Spiral Rib Pipe – Aluminized Type 2
CMP..... Corrugated Metal Pipe	MOD..... Modified	SRPA Steel Spiral Rib Pipe Arch – Aluminized Type 2
C.O..... Cleanout	MIN..... Minimum	SSD Stopping Sight Distance
COMB..... Combination	N..... North	SSF Super Silt Fence
CONC..... Concrete	NB Northbound	STD. Standard
CONSTR. Construction	NE Northeast	STA. Station
COR..... Corner	N.P. Non–Plastic	SO. Single Opening
CORR..... Correction	O.C. On Center	SY Square Yards
CPP–S Corrugated Polyethylene Pipe – Type ‘S’	OHE.....Overhead Electric	SWM Stormwater Management
CSP Corrugated Steel Pipe – Aluminized Type 2	O.M. Optimum Moisture	T Tangent
CSPA Corrugated Steel Pipe Arch – Aluminized Type 2	PAV T..... Pavement	T Telephone
DC.....Degree of Curve	PC Point of Curvature	T.C. Top of Cover
D.H.V.....Design Hourly Volume	PCC Point of Compound Curvature	T.G. Top of Grate
D.I..... Drop Inlet	PC Point of Crown	T or TL Traverse Line
DIA..... Diameter	P/GE Profile Grade Elevation	T.M. Top of Manhole
D.O..... Double Opening	P.G.E..... Profile Ground Elevation	TRAV..... Traverse
E East	P.G.L. Profile Grade Line	TS Temporary Swale
E Electric	P/GL Profile Ground Line	T.S. Top of Slab
E External Distance	P/R Point of Rotation	T.S. Topsoil
EA Each	P.I. Plasticity Index	TYP..... Typical
EB Eastbound	PI Point of Intersection	U.D. Under Drain
ELEV Elevation	POC Point On Curve	U.G. Underground
ES End Section	POT Point On Tangent	U.P. Utility Pole
EX or EXIST..... Existing	PPWP Polyvinyl Chloride Profile Wall Pipe	USDA United States Department of Agriculture
FT Feet	PROP Proposed	VCL Vertical Clearance
F or FL Flowline	PRC Point of Reverse Curve	V.C.L..... Vertical Curve Length
F.B.D. Flat Bottom Ditch	PT Point	W Water
F.H..... Fire Hydrant	PT Point of Tangency	W West
FWD..... Forward	PVC Point of Vertical Curve	WB Westbound
G Gas	PVC Polyvinyl Chloride	WB Wetland Buffer
G.V..... Gas Valve	PVI Point of Vertical Intersection	W.M. Water Meter
H.B..... Handbox	PVRC Point of Vertical Reverse Curve	W.S. Wrapped Steel
HDPE High Density Polyetheylene	PVT Point of Vertical Tangency	WUS Waters of the United States
	R Radius	W.V. Water Valve
	R.F. Rock Fragments	
	RT Right	

CONVENTIONAL SIGNS

PROPOSED MEDIAN BARRIER		PROPOSED PIPE / CULVERT	
ELECTRICAL HAND BOX – SIGNALS		EXISTING PIPE / CULVERT	
FLOW LINE		EXISTING DROP INLET	
STATE, COUNTY OR CITY LINES		UTILITY POLE	
PROPOSED TRAFFIC BARRIER		WETLAND	
EXISTING TRAFFIC BARRIER		WETLAND BUFFER	
PROPOSED FENCE LINE		WATERS OF THE U.S.	
EXISTING FENCE LINE		HEDGE /TREE LINE	
RIGHT OF WAY LINE		DECIDUOUS TREE.....	
EXISTING ROADWAY		CONIFEROUS TREE	
RAILROAD		GROUND ELEVATION	
BASE LINE OR SURVEY LINE		GRADE ELEVATION	
FIRE HYDRANT			
HISTORIC BOUNDARY			
WATERS OF THE U.S.			
WETLAND BOUNDARY			

GENERAL NOTES

- THIS PROJECT WAS DESIGNED IN ACCORDANCE WITH THE 2012 PUBLICATION OF AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) "GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES" AND THE 2015 MARYLAND STATE HIGHWAY ADMINISTRATION BICYCLE POLICY AND DESIGN GUIDELINES.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MARYLAND STATE HIGHWAY ADMINISTRATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS AND BOOK OF STANDARDS FOR HIGHWAYS & INCIDENTAL STRUCTURES, AND THE MARYLAND MUTCD.
- LIMITED TOPOGRAPHIC AND PROPERTY SURVEYS WERE COMPLETED BY CDDI IN DECEMBER 2022. HORIZONTAL DATUM IS BASED ON NAD 83/2011 AND VERTICAL DATUM IS BASED ON NAVD 88.
- CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION.
- REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION SHALL BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO ALL PROPERTIES WITHIN THE PROJECT LIMITS AND SHALL COORDINATE WITH PROPERTY OWNERS TO MAINTAIN INGRESSEGRESS DURING THE ENTRIE PERIOD OF CONSTRUCTION.
- RIGHT OF WAY AND EASEMENT LINES SHOWN ON THESE PLANS ARE FOR ASSISTANCE IN INTERPRETING THE PLANS.
- THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE OF THE ACCURACY OF SAID LOCATIONS.
- THE DESIGN OF THIS PROJECT HAS INCORPORATED FACILITIES TO ACCOMODATE PERSONS WITH DISABILITIES IN COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS.

CITY OF TAKOMA PARK
NEW AVE BIKEWAY
SECTION D
DISTRICT CONNECTOR

NOTES AND ABBREVIATIONS SHEET

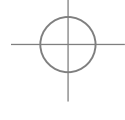
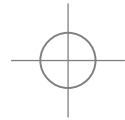
SCALE _____ NTS _____	DATE _FEBRUARY 2023_	CONTRACT NO. _T.B.D._
DESIGNED BY _____ AMA _____	COUNTY _MONTGOMERY_	
DRAWN BY _____ AMA _____	LOGMILE _____	
CHECKED BY _____ R/JG _____		
F.A.P. NO. _____ T.B.D. _____		
DRAWING NO. AB 01	SHEET NO. 2	OF 09



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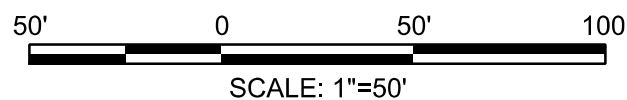
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FILE: \\ad.rkk.com\\s\\Cloud\\Projects\\2021\\21270_COGTLC\\Task 4.2 - Takoma Park New Ave D\\CADD\\Plan\\pGS-0001_NewAveD.dgn

TRAVERSE POINTS				
POINT NO.	NORTH	EAST	ELEVATION	DESCRIPTION
TRV-2	474,996.08	1,312,182.88	148.55	MAG NAIL
TRV-3	475,059.61	1,311,925.93	165.34	MAG NAIL
TRV-4	474,784.19	1,311,710.33	149.54	MAG NAIL
TRV-5	474,611.39	1,311,538.28	155.17	MAG NAIL
TRV-6	474,390.81	1,311,360.92	160.71	MAG NAIL
TRV-7	474,140.70	1,311,112.55	173.09	MAG NAIL
TRV-8	474,405.72	1,310,871.34	175.94	MAG NAIL
TRV-9	474,120.37	1,310,560.57	181.64	XCUT
TRV-19	474,797.62	1,312,563.84	159.69	MAG NAIL
TRV-806	475,087.45	1,312,732.23	136.99	MAG NAIL (ADJ.)

Curve	Point	Station	Northing	Easting	Bearing
	POB	10+00.00	474112.33	1310608.07	N 45°22'02.39" E
	POE	14+16.80	474405.16	1310904.67	

Curve	Point	Station	Northing	Easting	Bearing
	POB	30+00.00	474385.87	1310885.13	S 45°09'16.68" E
	POE	33+21.72	474158.99	1311113.24	

Curve	Point	Station	Northing	Easting	Bearing
	POB	50+00.00	474141.60	1311095.88	N 44°55'38.34" E
	PC	56+03.86	474569.13	1311522.33	
4TH-1	PI	56+15.46	474577.34	1311530.52	
	PT	56+26.95	474587.21	1311536.62	N 31°41'38.88" E
	PC	57+42.41	474685.45	1311597.28	
4TH-2	PI	57+52.41	474693.96	1311602.53	
	PT	57+62.34	474701.26	1311609.37	N 43°06'53.98" E
	POE	62+79.29	475078.62	1311962.68	

CURVE DATA							
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL	CHORD
4TH-1	13°13'59.46"	57°17'44.81"	100.00	11.60	23.10	0.67	23.04
4TH-2	11°25'15.10"	57°17'44.81"	100.00	10.00	19.93	0.50	19.90

MATCH LINE - SEE THIS SHEET

Curve	Point	Station	Northing	Easting	Bearing
	POB	20+00.00	475092.92	1311947.25	S 47°09'46.04" E
	PC	20+47.71	475060.48	1311982.24	
POP-1	PI	20+72.18	475043.85	1312000.18	
	PCC	20+96.16	475034.23	1312022.68	
POP-2	PI	21+37.45	475018.00	1312060.64	
	PCC	21+77.79	475016.57	1312101.89	
POP-3	PI	22+53.50	475013.95	1312177.56	
	PT	23+27.67	475037.38	1312249.56	N 71°58'06.18" E
	PC	24+66.18	475080.26	1312381.26	
POP-4	PI	25+61.44	475109.74	1312471.84	
	PT	26+53.31	475095.86	1312566.09	S 81°37'21.95" E
	PC	27+04.89	475088.35	1312617.11	
POP-5	PI	27+25.66	475085.32	1312637.66	
	PT	27+46.38	475080.18	1312657.77	S 75°39'52.53" E
	POE	28+20.88	475061.74	1312729.96	

CURVE DATA							
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL	CHORD
POP-1	19°41'18.37"	40°38'07.10"	141.00	24.47	48.45	2.11	48.21
POP-2	21°09'44.18"	25°55'32.49"	221.00	41.28	81.63	3.82	81.16
POP-3	20°01'05.23"	13°21'20.37"	429.00	75.71	149.88	6.63	149.12
POP-4	26°24'31.87"	14°06'44.14"	406.00	95.26	187.13	11.03	185.48
POP-5	5°57'29.42"	14°21'35.44"	399.00	20.76	41.49	0.54	41.47

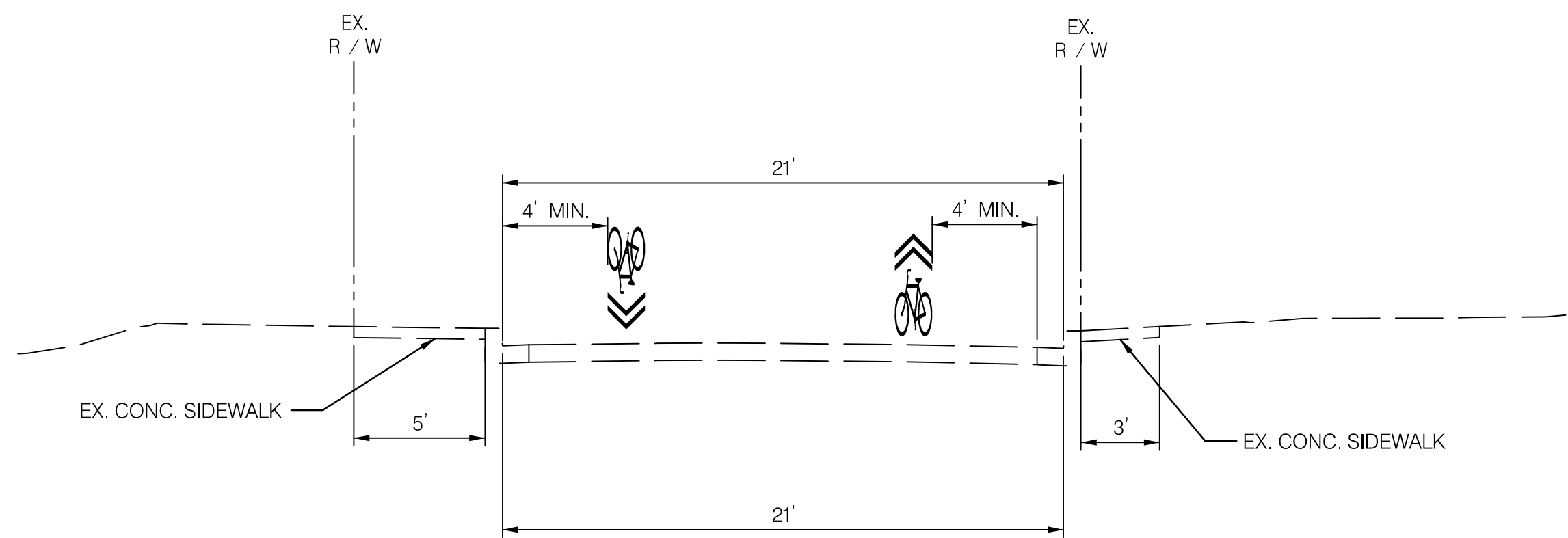
CITY OF TAKOMA PARK
NEW AVE BIKEWAY
SECTION D
DISTRICT CONNECTOR

GEOMETRY SHEET

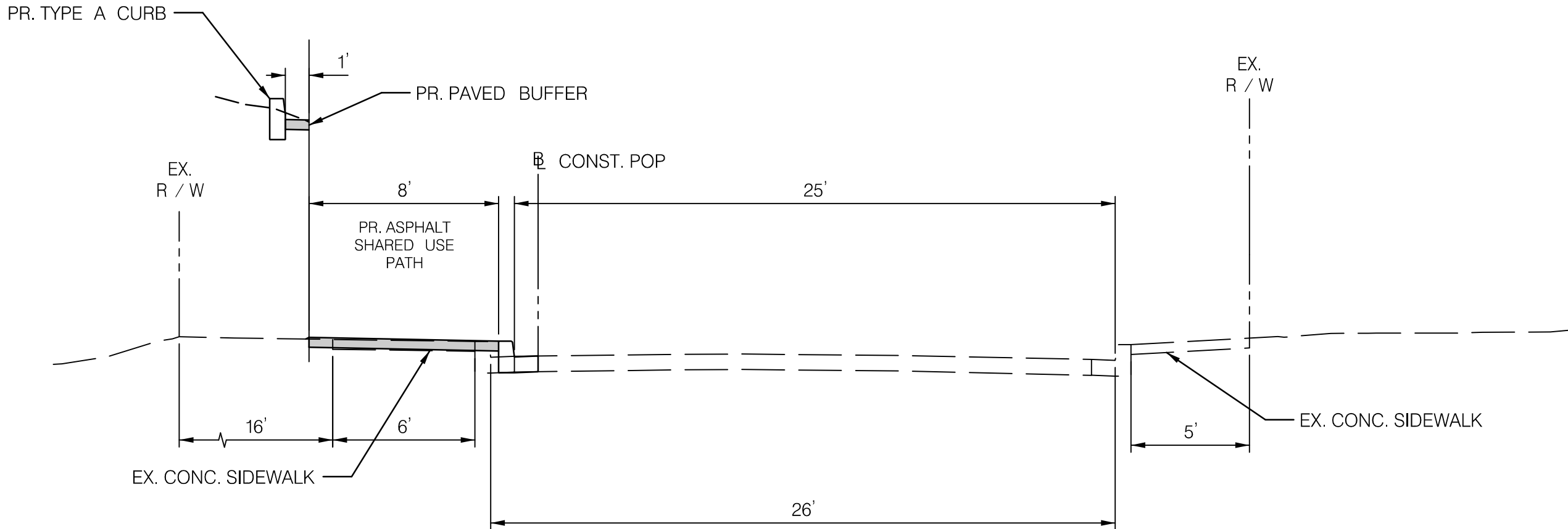
SCALE 1"=50' DATE FEBRUARY 2023 CONTRACT NO. T.B.D.

DESIGNED BY AMA COUNTY MONTGOMERY
DRAWN BY AMA LOGMILE
CHECKED BY RJG
F.A.P. NO. T.B.D.

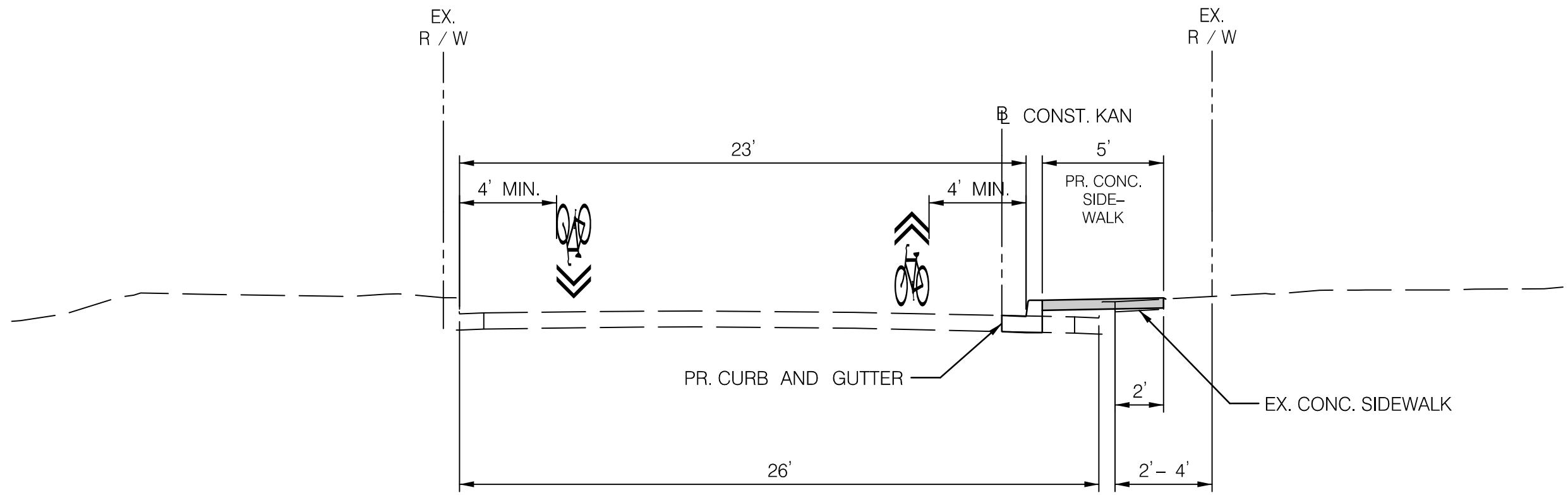
DRAWING NO. GS-01 SHEET NO. 03 OF 09



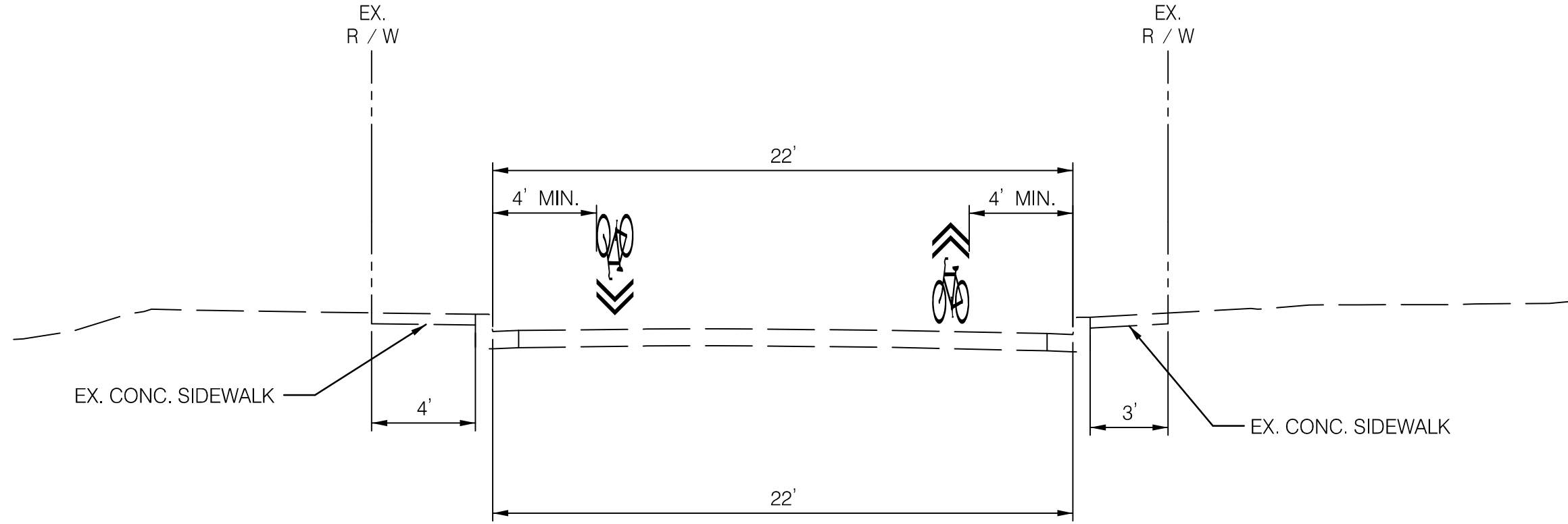
WESTMORELAND AVENUE
FROM KANSAS LANE TO 4TH AVENUE



POPLAR AVENUE
FROM 4TH AVENUE TO NEW HAMPSHIRE AVENUE



KANSAS LANE
FROM EASTERN AVENUE TO WESTMORELAND AVENUE



4TH AVENUE
FROM WESTMORELAND AVENUE TO POPLAR AVENUE

- NOTES:
1. LOCATION OF PROPOSED SHARROW MARKINGS AND BIKE ROUTE SIGNS ARE AS SHOWN ON PLAN SHEETS HD-01 TO HD-05.



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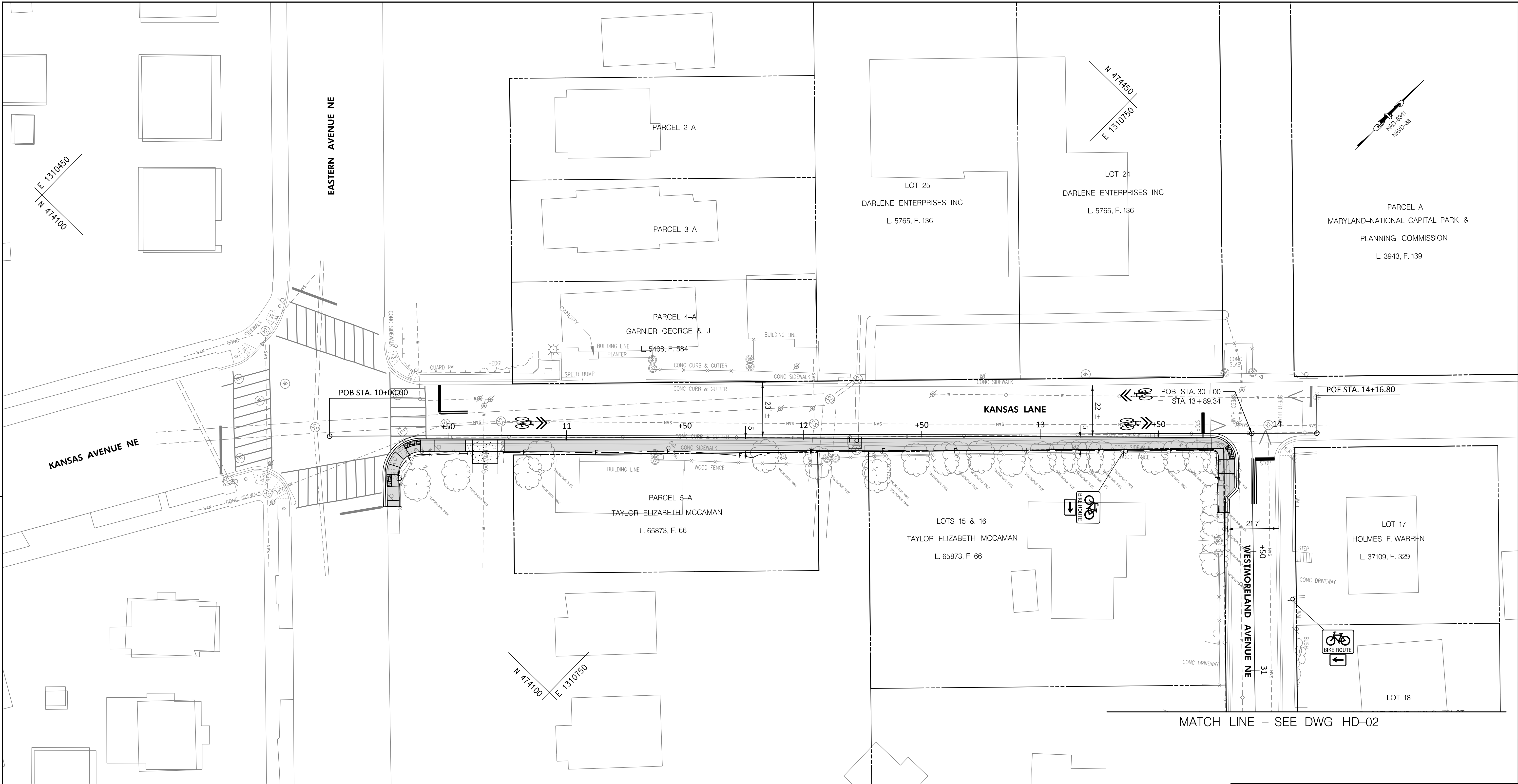
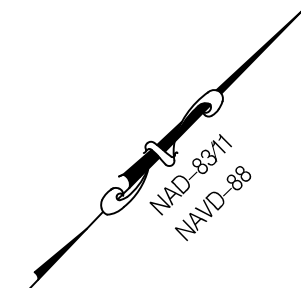
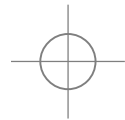
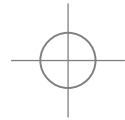


CITY OF TAKOMA PARK
NEW AVE BIKEWAY
SECTION D
DISTRICT CONNECTOR

TYPICAL SECTIONS

SCALE	1"=5'	DATE	FEBRUARY 2023	CONTRACT NO.	T.B.D.
DESIGNED BY	AMA	COUNTY	MONTGOMERY		
DRAWN BY	AMA	LOGMILE			
CHECKED BY	RJG				
F.A.P. NO.	T.B.D.				
DRAWING NO.	HT-01	SHEET NO.	04	OF	09

PLOTTED: 2/21/2023
FILE: \\ad.rkk.com\its\Cloud\Projects\2021\21270_COGLTC\Task 4.2 - Takoma Park New Ave D\CADD\Plan\pHT-0001_NewAveD.dgn



MATCH LINE - SEE DWG HD-02

LEGEND:

- PROPOSED CONCRETE SIDEWALK
- PROPOSED ASPHALT SHARED USE PATH
- PROPOSED CONCRETE DRIVEWAY APRON
- TREE TO BE REMOVED
- PROPOSED BIKE SHARROW MARKINGS
- PROPOSED BIKE ROUTE SIGN



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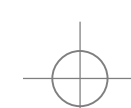
ROADWAY PLAN

SCALE 1"=20' DATE FEBRUARY 2023 CONTRACT NO. T.B.D.

DESIGNED BY AMA COUNTY MONTGOMERY
DRAWN BY AMA LOGMILE
CHECKED BY RJG
F.A.P. NO. T.B.D.

DRAWING NO. HD-01 SHEET NO. 05 OF 09

PLOTTED: 2/21/2023
FILE: \\ad.rkk.com\ts\Cloud\Projects\2021\21270_COGLT\Task 4.2 - Takoma Park New Ave D\ICADD\Plan\PHD-0001_NewAveD.dgn



BY: agular -



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LEGEND:

- PROPOSED CONCRETE SIDEWALK
- PROPOSED ASPHALT SHARED USE PATH
- PROPOSED CONCRETE DRIVEWAY APRON
- TREE TO BE REMOVED
- PROPOSED BIKE SHARROW MARKINGS
- PROPOSED BIKE ROUTE SIGN

NOTES:

- ALTERNATE ALIGNMENT FOR CONSIDERATION: EXTEND BIKEWAY ALONG 4TH AVENUE FROM WESTMORELAND AVENUE NE, WEST TO THE INTERSECTION OF EASTERN AVENUE NE AND TIE-INTO THE DISCTRICT DOT'S PROPOSED MULTI-MODAL IMPROVEMENTS.



CITY OF TAKOMA PARK NEW AVE BIKEWAY SECTION D DISTRICT CONNECTOR

ROADWAY PLAN

SCALE 1"=20' DATE FEBRUARY 2023 CONTRACT NO. T.B.D.

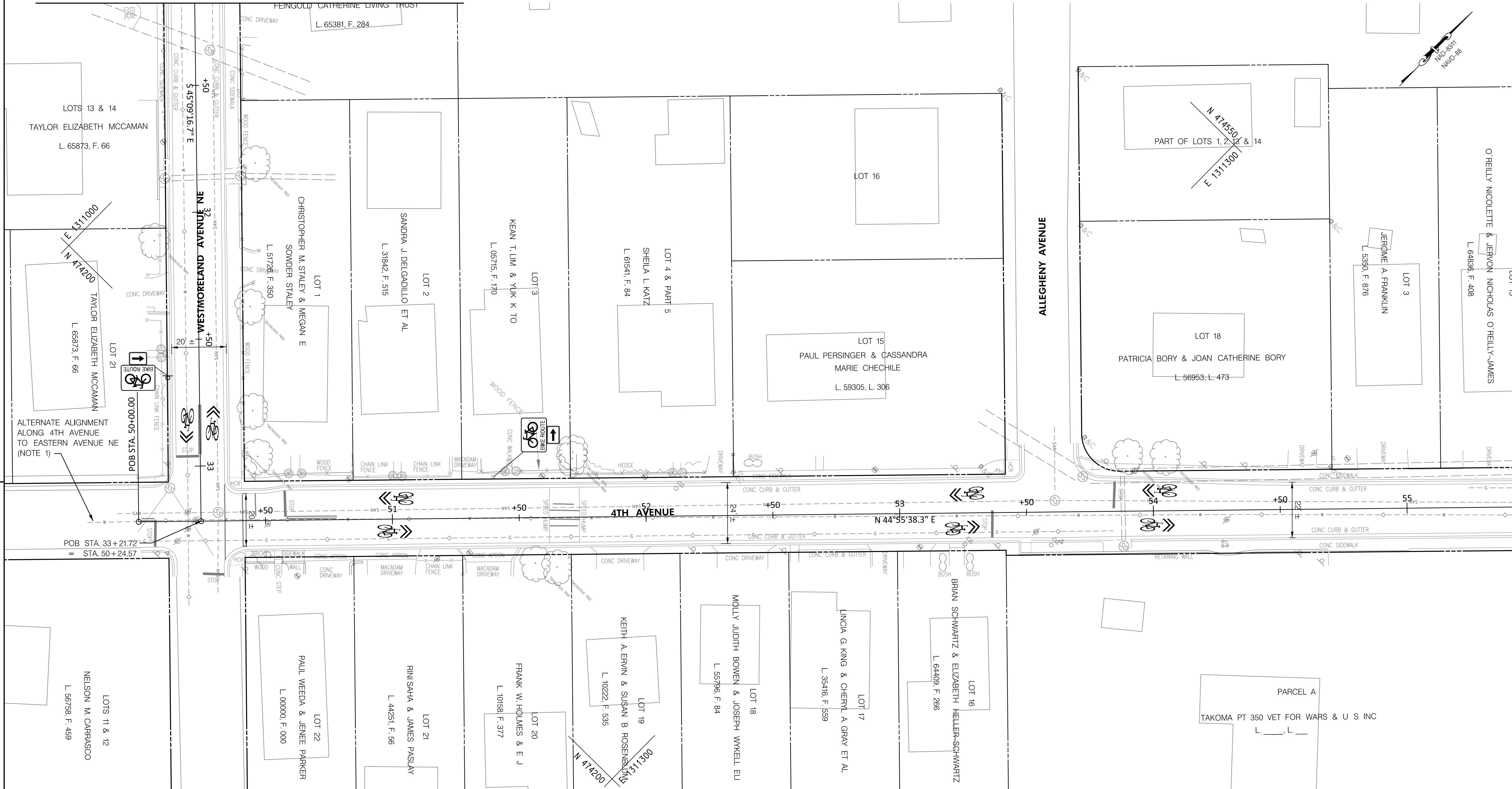
DESIGNED BY AMA COUNTY MONTGOMERY
DRAWN BY AMA LOGMILE
CHECKED BY RJG
F.A.P. NO. T.B.D.

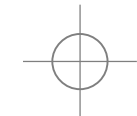
DRAWING NO. HD-02 SHEET NO. 06 OF 09

PLOTTED: 2/21/2023
FILE: \\ad.rkk.com\its\Cloud\Projects\2021\21270_COGLTC\Task 4.2 - Takoma Park New Ave D\CADD\Plan\PHD-0002_NewAveD.dgn

MATCH LINE - SEE DWG HD-01

MATCH LINE - SEE DWG HD-03





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LEGEND:

- PROPOSED CONCRETE SIDEWALK
- PROPOSED ASPHALT SHARED USE PATH
- PROPOSED CONCRETE DRIVEWAY APRON
- TREE TO BE REMOVED
- PROPOSED BIKE SHARROW MARKINGS
- PROPOSED BIKE ROUTE SIGN



CITY OF TAKOMA PARK NEW AVE BIKEWAY SECTION D DISTRICT CONNECTOR

ROADWAY PLAN

SCALE 1"=20' DATE FEBRUARY 2023 CONTRACT NO. T.B.D.

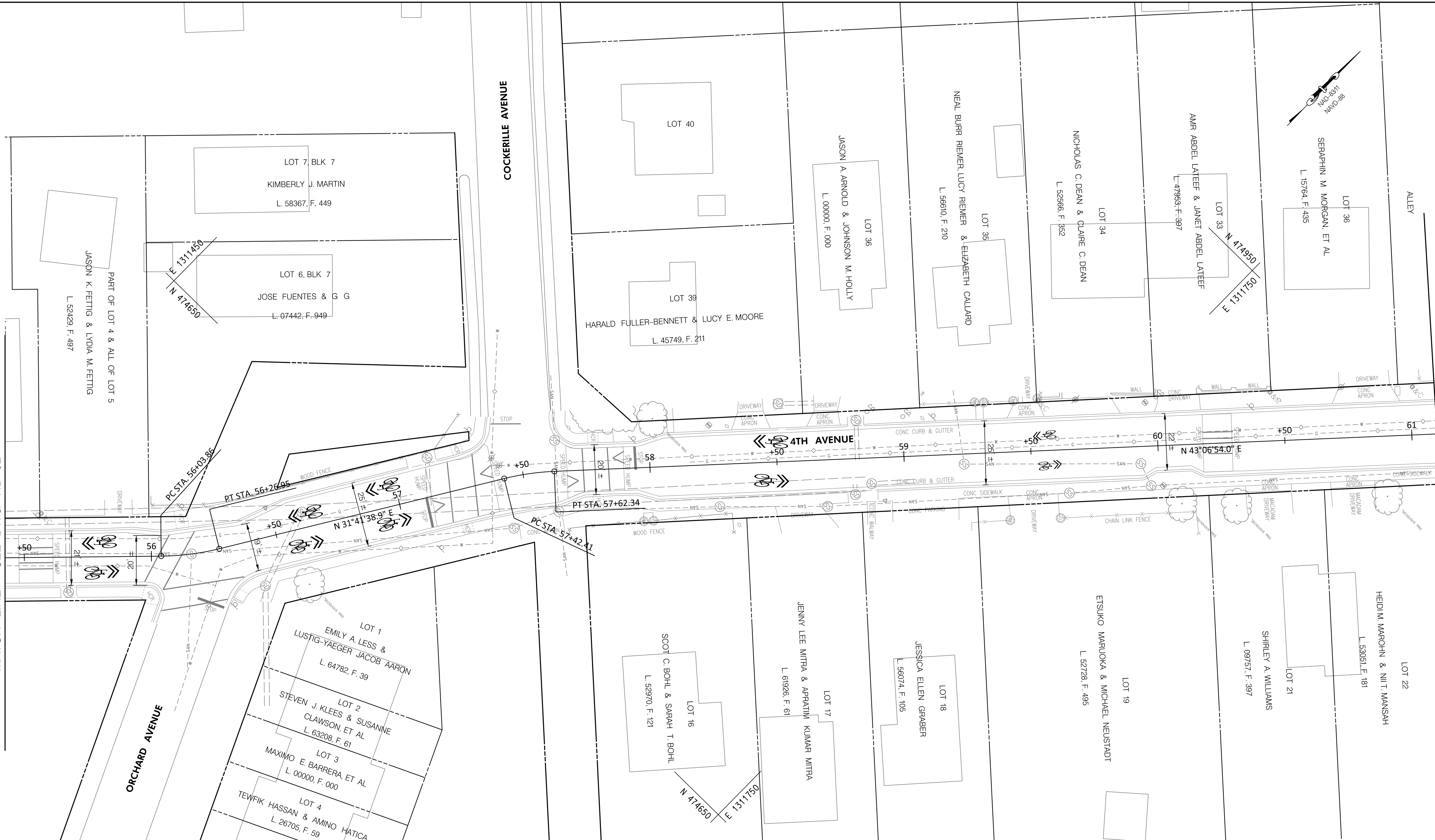
DESIGNED BY AMA COUNTY MONTGOMERY
DRAWN BY AMA LOGMILE
CHECKED BY RJG
F.A.P. NO. T.B.D.

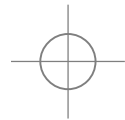
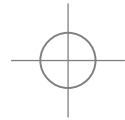
DRAWING NO. HD-03 SHEET NO. 07 OF 09

PLOTTED: 2/21/2023
FILE: \\ad.rkk.com\its\Cloud\Projects\2021\21270_COGLT\Task 4.2 - Takoma Park New Ave D\CADD\Plan\PHD-0003_NewAveD.dgn

MATCH LINE - SEE DWG HD-02

MATCH LINE - SEE DWG HD-04





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LEGEND:

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- PROPOSED ASPHALT SHARED USE PATH
- PROPOSED CONCRETE DRIVEWAY APRON
- TREE TO BE REMOVED
- PROPOSED BIKE SHARROW MARKINGS
- PROPOSED BIKE ROUTE SIGN



CITY OF TAKOMA PARK
NEW AVE BIKEWAY
SECTION D
DISTRICT CONNECTOR

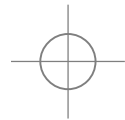
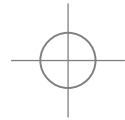
ROADWAY PLAN

SCALE 1"=20' DATE FEBRUARY 2023 CONTRACT NO. T.B.D.

DESIGNED BY AMA COUNTY MONTGOMERY
DRAWN BY AMA LOGMILE
CHECKED BY RJG
F.A.P. NO. T.B.D.

DRAWING NO. HD-04 SHEET NO. 08 OF 09

PLOTTED: 2/21/2023
FILE: \\ad.rkk.com\its\Cloud\Projects\2021\21270_COGLT\Task 4.2 - Takoma Park New Ave D\CADD\Plan\PHD-0004_NewAveD.dgn



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LEGEND:	
	PROPOSED CONCRETE SIDEWALK
	PROPOSED ASPHALT SHARED USE PATH
	PROPOSED CONCRETE DRIVEWAY APRON
	TREE TO BE REMOVED
	PROPOSED BIKE SHARROW MARKINGS
	PROPOSED BIKE ROUTE SIGN



CITY OF TAKOMA PARK
NEW AVE BIKEWAY
SECTION D
DISTRICT CONNECTOR

ROADWAY PLAN

SCALE 1"=20' DATE FEBRUARY 2023 CONTRACT NO. T.B.D.

DESIGNED BY AMA COUNTY MONTGOMERY
DRAWN BY AMA LOGMILE
CHECKED BY R/JG
F.A.P. NO. T.B.D.

DRAWING NO. HD-05 SHEET NO. 09 OF 09

PLOTTED: 2/21/2023
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