

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION

CAPITAL CRESCENT SURFACE TRAIL - PHASE 2

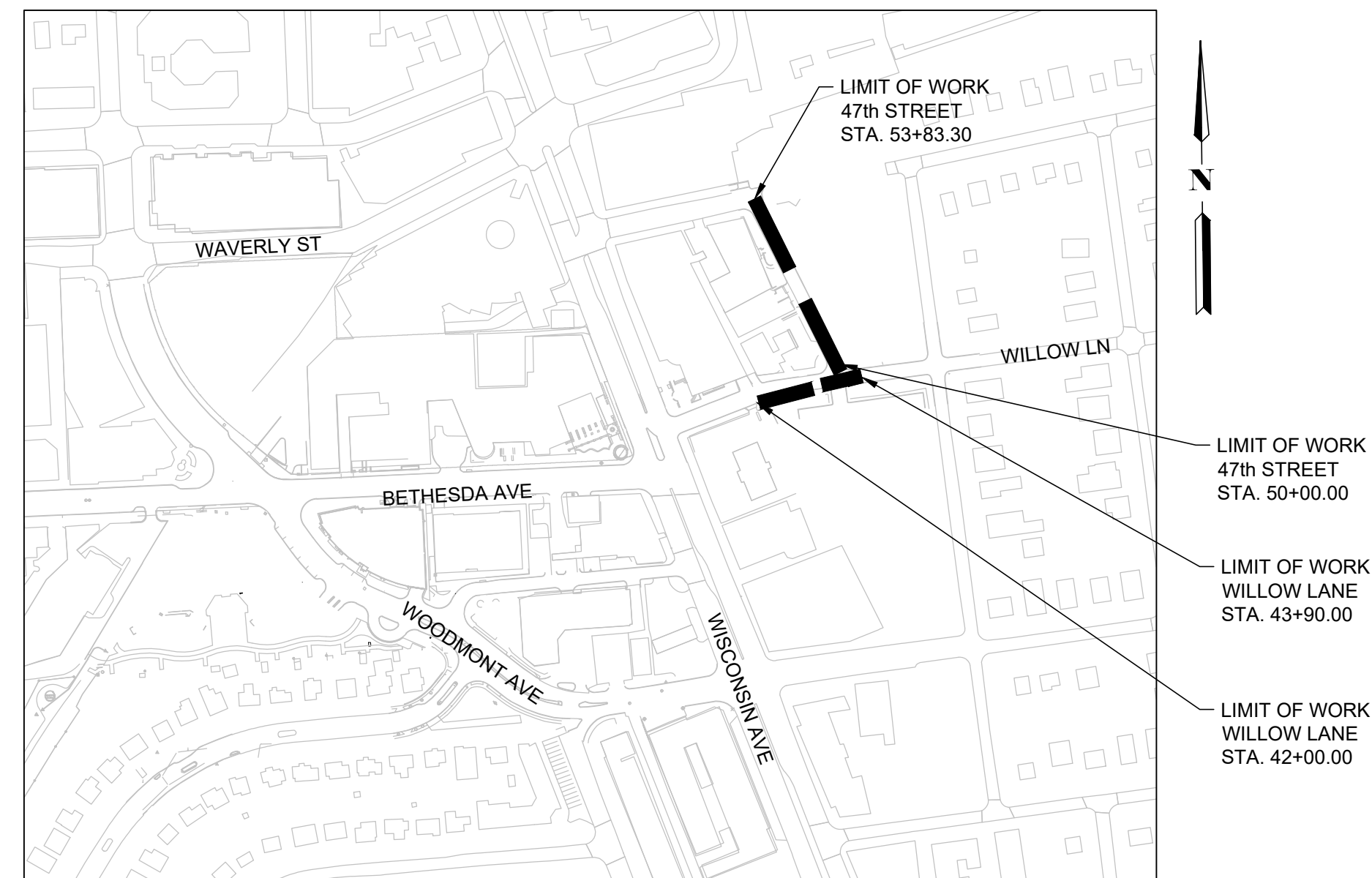
WILLOW LANE TO 47th STREET
MONTGOMERY COUNTY, MARYLAND
C.I.P PROJECT NO. 501307

30% DESIGN REVIEW - APRIL 16, 2020

MR2020030 - BASE MAP # 209NW05 - TAX MAP # 122

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT			
STORMWATER MANAGEMENT	SEDIMENT CONTROL TECHNICAL REQUIREMENTS:	ADMINISTRATIVE REQUIREMENTS:			
REVIEWED DATE	REVIEWED DATE	REVIEWED DATE	DATE		
APPROVED DATE	APPROVED DATE	SEDIMENT CONTROL PERMIT NO.			
S.M FILE NO.		MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE OF APPROVAL. IF THE PROJECT HAS NOT STARTED, UNLESS THE PERMIT HAS BEEN EXTENDED.			
DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects uphill or downhill properties.					
RELATED REQUIRED PERMITS					
To be completed by the consultant and placed on the first sheet of the Sediment Control/Stormwater Management plan set for all projects					
IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT:					
TYPE OF PERMIT	REQ'D	NOT REQ'D	PERMIT NO.	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS Floodplain district		X			
WATERWAYS/WETLAND(S)		X			NA
a. Corps of Engineers		X			NA
b. MDE		X			NA
c. MDE Water Quality Certification		X			NA
MDE Dam Safety		X			
*DPS Roadside Trees Protection Plan	X		MCDOT Blanket Permit No. 361405	APPROVAL DATE	
NPDOS		X			DATE FILED
NOTICE OF INTENT		X			NA
FEMA LOMR (Required post construction)		X	NA	NA	
OTHERS (Please List):					
MNCPKC Park Construction Permit		X			
WSSC	X		NA	NA	
Montgomery County Tree Canopy Conservation Law Approval	X				

*A copy of the approved Roadside Trees Protection Plan must be delivered to the sediment control inspector at the preconstruction meeting



VICINITY MAP

1"=250'

HORIZONTAL DATUM NAD 83
VERTICAL DATUM NAVD 88

OWNER'S/DEVELOPER'S CERTIFICATION
I/We hereby certify that all clearing, grading, construction, and or development will be done pursuant to this plan and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project.

Signature Date

Printed Name and Title

CERTIFICATION OF THE QUANTITIES
I hereby certify that the estimated total amount of excavation and fill as shown on these plans has been computed to 660 cubic yards of excavation, 660 cubic yards of fill and the total area to be disturbed as shown on these plans has been determined to be 25,265 square feet.

Signature Date

Printed Name and Title Registration Number

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19	C8.0	CROSS SECTION - 1
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21	C8.2	CROSS SECTION - 3
22	C8.3	CROSS SECTION - 4
23	C8.4	CROSS SECTION - 5
24	C8.5	CROSS SECTION - 6
25	C8.6	CROSS SECTION - 7
26	SC-1	EROSION AND SEDIMENT CONTROL PLAN

MISS UTILITY

CALL "MISS UTILITY" AT 1-800-257-777, 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. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

ALL UTILITIES SHOWN ON THE PLANS ARE PROVIDED FOR INFORMATION ONLY AND SHALL BE CONSIDERED APPROXIMATE. ANY UTILITIES OR OTHER UNDERGROUND FACILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED / REPLACED AT THE CONTRACTOR'S SOLE EXPENSE.

TOOLE
DESIGN

8484 GEORGIA AVENUE, SUITE 800, SILVER SPRING, MD 20910
PHONE: (301) 927-1900 FAX: (301) 927-2800
www.tooledesign.com

DRAFT
NOT FOR CONSTRUCTION

OWNER/ADDRESS:
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:

PROJECT MANAGER
MATT JOHNSON, AICP
240-777-7237

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section

Date

APPROVED

Chief, Division of Transportation Engineering

Date

DESIGNED BY LB DRAWN BY VR CHECKED BY RP

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

MR2020030 - BASE MAP # 209NW05 - TAX MAP # 122

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
WILLOW LANE TO 47TH STREET
TITLE SHEET

SCALE NONE DATE APRIL 16, 2020

DWG. C0.0

SHEET NO. 1 OF 26

GENERAL NOTES

1.

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE 2019 EDITION OF THE STANDARD SPECIFICATIONS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION, AND WASHINGTON SUBURBAN SANITARY COMMISSION.
2.

ALL STRIPING AND SIGNS WORK SHALL COMPLY WITH THE LATEST APPLICABLE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MDMUTCD) AND MCDOT STANDARDS AND SPECIFICATIONS. SIGNS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION(MCDOT) AND MARYLAND STATE HIGHWAY ADMINISTRATION (MDSHA) STANDARDS AND SPECIFICATIONS.
3.

ALL EXISTING PAVEMENT MARKINGS MAY NOT BE SHOWN. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED BY A METHOD APPROVED BY MCDOT.
4.

REPAIRS TO UTILITIES OR PROPERTY DAMAGES AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION MUST BE MADE AT THE CONTRACTOR'S EXPENSE WITHOUT ANY ADDITIONAL COST TO THE COUNTY BEFORE PROCEEDING WITH CONSTRUCTION.
5.

THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTION TO PROTECT ALL GRADING, SIDEWALKS AND FEATURES OUTSIDE THE LIMITS OF WORK AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AS DIRECTED BY MCDOT ANY SUCH OR CAUSED BY THE CONTRACTOR'S OPERATIONS AT NO ADDITIONAL COST TO MCDOT.
6.





































































































































































































ALL ELEVATIONS SHOWN ON THIS PLAN ARE IN ACCORDANCE WITH THE FOLLOWING: HORIZONTAL--MARYLAND COORDINATE SYSTEM (STATE PLANE GRID) BASED ON NAD 83; VERTICAL--NAVD88.
7.

ALL EXISTING STORM DRAIN STRUCTURES, SEWER MANHOLES, VALVE BOXES, VAULTS, ETC. SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET THE FINISHED GRADE ELEVATION AS APPROVED BY THE COUNTY INSPECTOR, UNLESS THESE APPURTENANCES ARE ABANDONED OR REMOVED UNDER THIS CONTRACT. ADJUSTMENTS WILL NOT BE MEASURED, BUT THE COST WILL BE INCIDENTAL TO THE ASPHALT ITEM.
8.

THE CONTRACTOR SHOULD NOT UNDER ANY CIRCUMSTANCE BAG OR REMOVE PARKING METERS. REQUESTS FOR BAGGING METERS NEED TO GO TO THE MONTGOMERY COUNTY DIVISION OF PARKING MANAGEMENT. HOWEVER REQUESTS MUST COME FROM A MCDOT EMPLOYEE, NOT AN OUTSIDE PERSON. REQUESTS FOR BAGGING MUST BE SUBMITTED BY THE MCDOT STAFF PERSON TO THE DIVISION OF PARKING MANAGEMENT 72 HOURS IN ADVANCE, AND THEREFORE MUST BE SUBMITTED TO THE MCDOT STAFF PERSON EARLIER. THE DIVISION OF PARKING MANAGEMENT WILL HAVE THE SOLE RESPONSIBILITY FOR BAGGING METERS, REMOVING METERS, REMOVING METER POLES, AND INSTALLING ANY SIGNAGE RELATED TO PARKING. THE CONTRACTOR SHOULD NOT INSTALL ANY SIGNAGE RELATED TO PARKING RESTRICTIONS.
9.

SURVEYS WERE PERFORMED BY AB CONSULTANTS INC IN SEPTEMBER 2013 AND JANUARY 2014.

STANDARD SYMBOLS

EXISTING LINE TYPES	PROPOSED LINE TYPES		EXISTING SYMBOLS	PROPOSED SYMBOLS	
 T	 T	UNDERGROUND TELEPHONE			COMBINATION SEWER
 E	 E	UNDERGROUND ELECTRIC			SEWER MANHOLE
 C	 C	UNDERGROUND CABLE			SEWER CLEANOUT
 FO	 FO	UNDERGROUND FIBER OPTIC			STORM DRAIN MANHOLE
 G	 G	UNDERGROUND GAS			STORM DRAIN CLEANOUT
 W	 W	UNDERGROUND WATER			WATER MANHOLE
 /	 /	ABANDONED LINE			WATER METER
 CS	 CS	UNDERGROUND COMBINATION SEWER			FIRE HYDRANT
 SD		UNDERGROUND STORM SEWER			WATER VALVE
 SS	 SS	UNDERGROUND SANITARY SEWER			WATER HOUSE CONNECTION
 STM	 STM	UNDERGROUND STEAM			SPIGOT
 STR	 STR	UNDERGROUND STEAM RETURN			FOUNTAIN
		TRAFFIC STRIPING, CROSSWALK			FIRE MONITORING WELL
		TRAFFIC STRIPING, CROSSWALK			WELL
		TRAFFIC STRIPING, CROSSWALK			ELECTRICAL MANHOLE
		TRAFFIC STRIPING, LANES			ELECTRICAL OUTLET
		TRAFFIC STRIPING, LANES			UTILITY POLE
		TRAFFIC STRIPING, LANES			GUY WIRE
		TRAFFIC STRIPING, LANES			ELECTRICAL BOX
 X	 X	FENCE / CHAIN LINK			LAMP POST
 X	 X	FENCE / BARBED WIRE			GROUND LIGHT
		BLDG			CIRCUIT BREAKER
		BLDG-STEP			TELEPHONE MANHOLE
		BLDG-WALL			TELEPHONE BOX
		CURB			TEST VALVE
		CURB-GUTR			GAS MANHOLE
		CURB-X			GAS METER
		ROAD-EDGE			GAS METER
		SDWK			GAS VALVE
		SITE-PAD			UNIDENTIFIED MANHOLE
					TRANSFORMER
					SIGNBOARD
					MAIL BOX
					TRAVERSE / FLY
					BENCHMARK
					TREE
					PULL BOX
					U.S. POST BOX
					TRAFFIC CONTROL BOX
					FIRE CALL BOX
					POLICE CALL BOX
					BOLLARD
					MONITORING WELL
					PARKING METER
					TRAFFIC LIGHT
					DECIDUOUS TREE
					APPROX. DRIP LINE
					CONIFEROUS TREE
					APPROX. DRIP LINE

OWNER/ADDRESS:
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CONTACT:

PROJECT MANAGER
MATT JOHNSON, AICP
240-777-7237

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Transportation Planning and Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
DESIGNED BY <u>LB</u>	DRAWN BY <u>VR</u>
CHECKED BY <u>RP</u>	

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MR2020030 - BASE MAP # 209NW05 - TAX MAP # 122
CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
WILLOW LANE TO 47TH STREET
GENERAL NOTES

SCALE NONE DATE APRIL 16, 2020

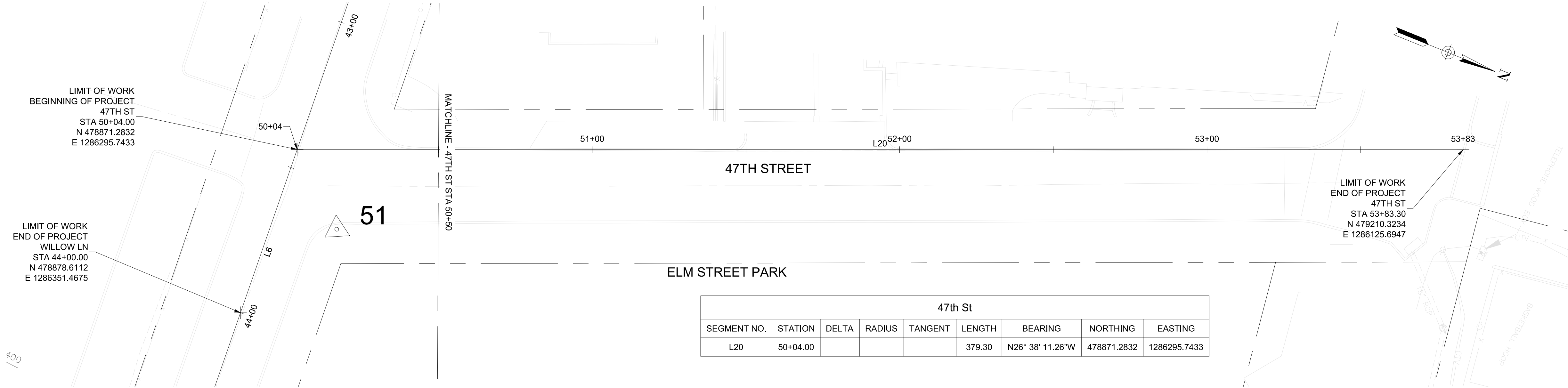
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SHEET NO. 2 OF 26

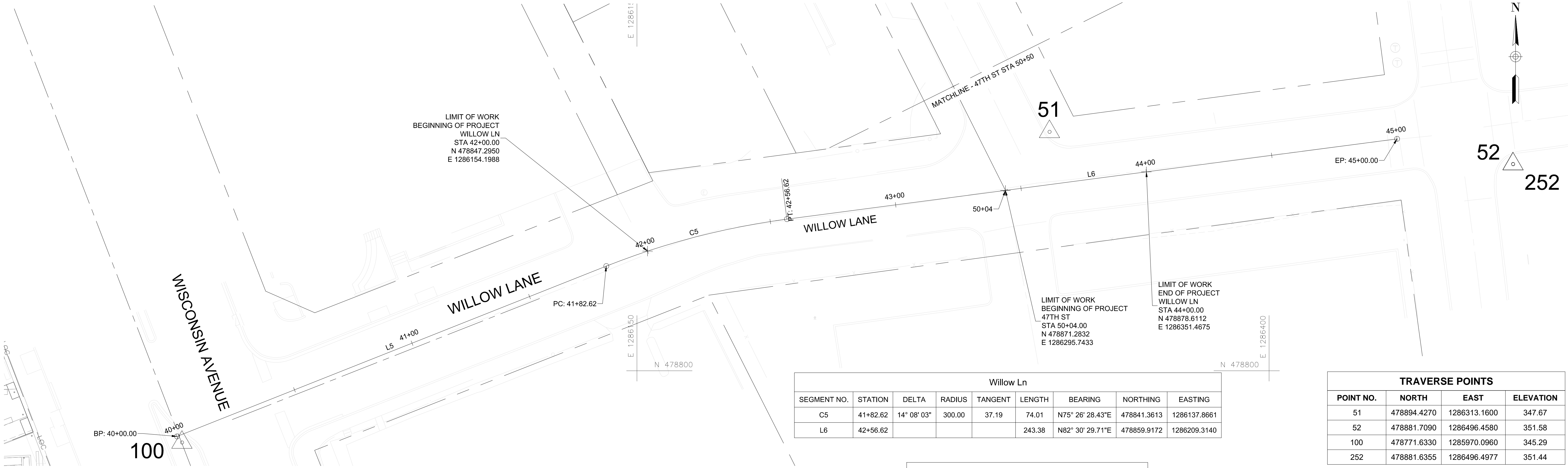
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47th St								
SEGMENT NO.	STATION	DELTA	RADIUS	TANGENT	LENGTH	BEARING	NORTHING	EASTING
L20	50+04.00				379.30	N26° 38' 11.26"W	478871.2832	1286295.7433



Willow Ln								
SEGMENT NO.	STATION	DELTA	RADIUS	TANGENT	LENGTH	BEARING	NORTHING	EASTING
C5	41+82.62	14° 08' 03"	300.00	37.19	74.01	N75° 26' 28.43"E	478841.3613	1286137.8661
L6	42+56.62				243.38	N82° 30' 29.71"E	478859.9172	1286209.3140

TRAVERSE POINTS			
POINT NO.	NORTH	EAST	ELEVATION
51	478894.4270	1286313.1600	347.67
52	478881.7090	1286496.4580	351.58
100	478771.6330	1285970.0960	345.29
252	478881.6355	1286496.4977	351.44

HORIZONTAL DATUM NAD 83
VERTICAL DATUM NAVD 88



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240-777-7237

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
APPROVED

Chief, Division of Transportation Engineering

Date

Date

DESIGNED BY LB

DRAWN BY VR

CHECKED BY RP

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MR2020030 - BASE MAP # 209NW05 - TAX MAP # 122
CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
WILLOW LANE TO 47TH STREET
ALIGNMENT PLAN

SCALE 1"=20'

DATE APRIL 16, 2020

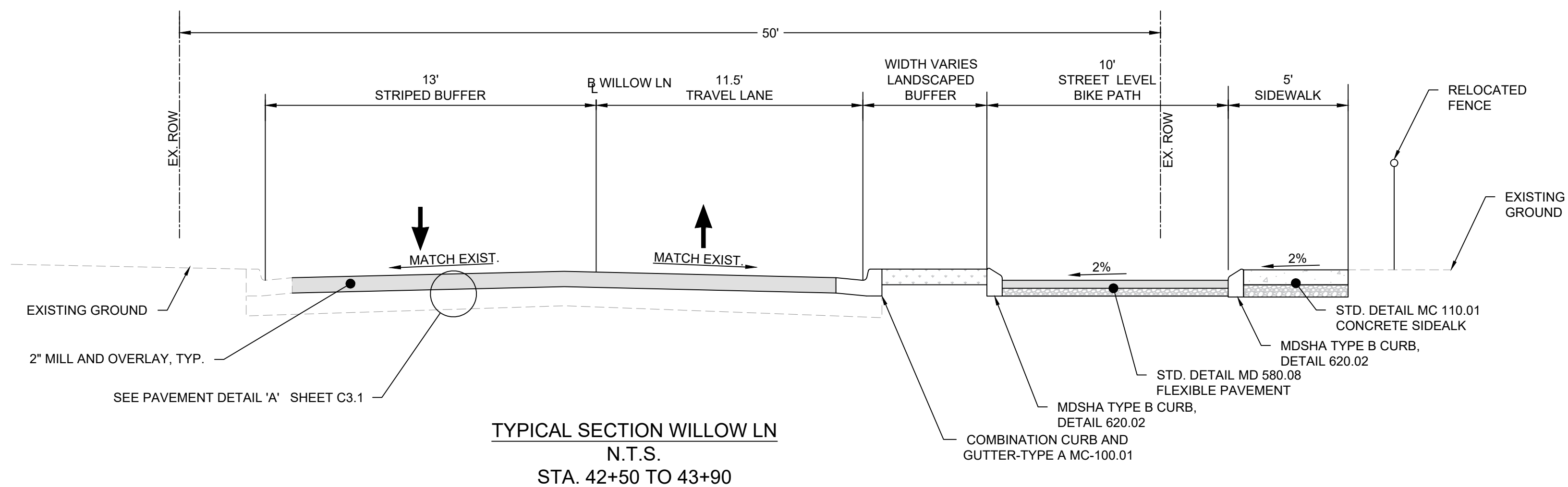
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SHEET NO. 3 OF 26

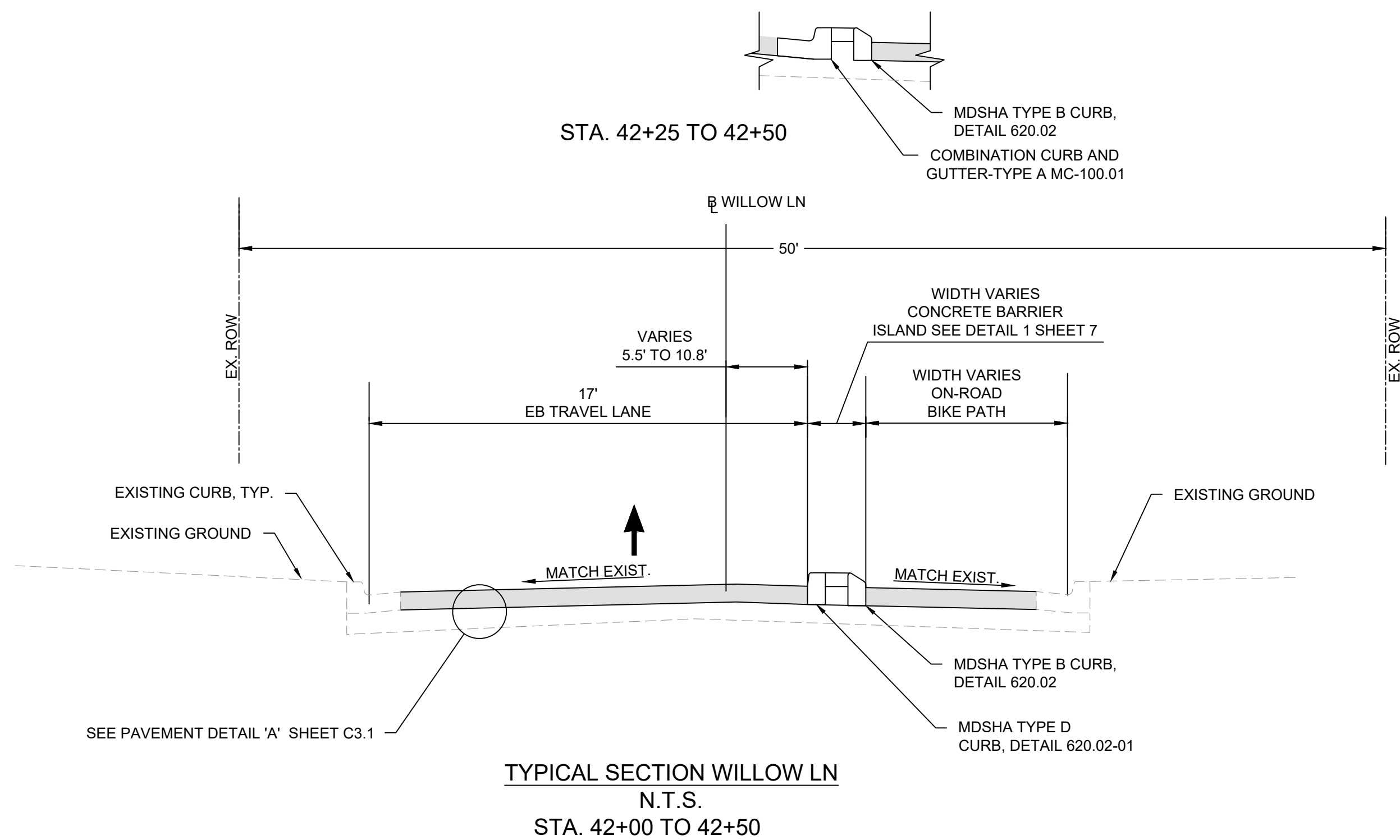
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STA. 42+25 TO 42+50



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GAITHERSBURG, MARYLAND

CONTACT:

PROJECT MANAGER
MATT JOHNSON, AICP
240-777-7237

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
APPROVED

Chief, Division of Transportation Engineering

Date

Date

DESIGNED BY LB

DRAWN BY VR

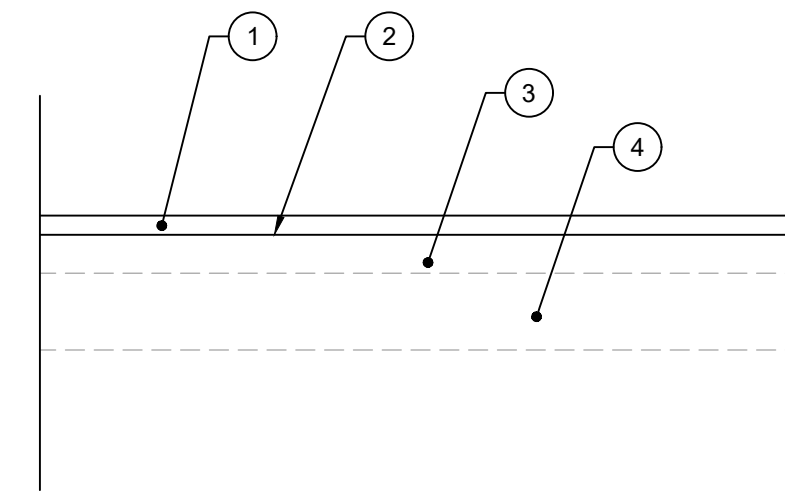
CHECKED BY RP

SCALE NOT TO SCALE DATE APRIL 16, 2020

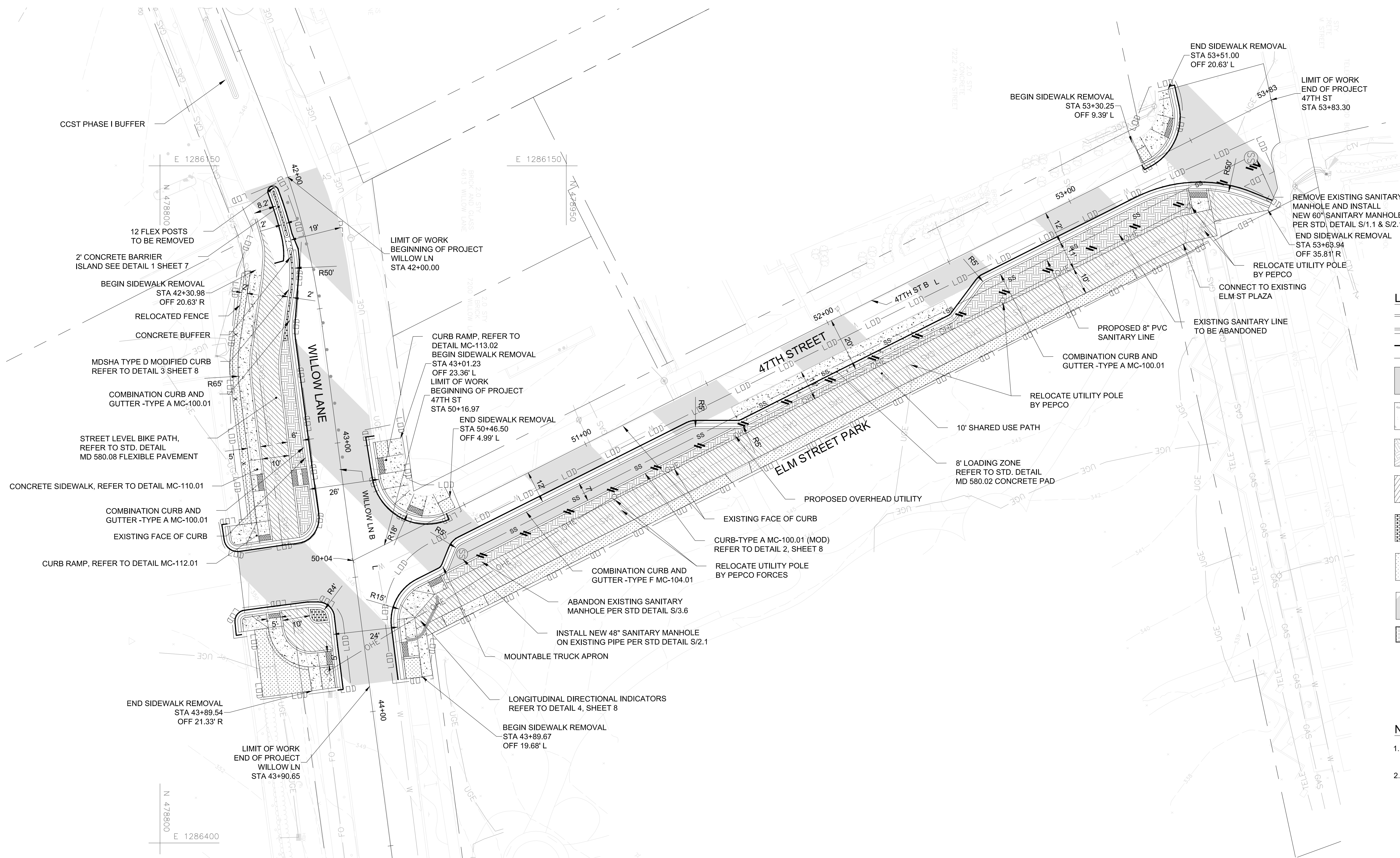
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SHEET NO. 4 OF 26

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MR2020030 - BASE MAP # 209NW05 - TAX MAP # 122
CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
WILLOW LANE TO 47TH STREET
TYPICAL SECTIONS -1



MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING MR2020030 - BASE MAP # 209NW05 - TAX MAP # 122 CAPITAL CRESCENT SURFACE TRAIL PHASE 2 WILLOW LANE TO 47TH STREET TYPICAL SECTIONS -2	
SCALE <u>NOT TO SCALE</u>	DATE <u>APRIL 16, 2020</u>
DWG. C3.1	SHEET NO. <u>5</u> OF <u>26</u>

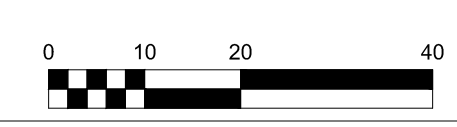


LEGEND

- PROPOSED CURB
- PROPOSED CURB AND GUTTER
- SAW CUT
- LOD - LIMIT OF DISTURBANCE
- MOUNTABLE TRUCK APRON (REFER TO DETAIL 5, SHEET 8)
- PROPOSED CONCRETE
- VEGETATIVE BUFFER
- PROPOSED ASPHALT-BIKE OR SHARED-USE PATH (REFER TO STD. DETAIL MD 580.08 FLEXIBLE PAVEMENT)
- PROPOSED DYED STAMPED CONCRETE BRICK SHAPED
- PROPOSED SOD ESTABLISHMENT
- PROPOSED 2" MILL AND OVERLAY
- DETECTABLE WARNING SURFACE
- GEOMETRY POINT SEE SHEET 9
- DRAINAGE

NOTES

- FOR PROPOSED LANDSCAPING, SEE TREE PROTECTION AND LANDSCAPING SHEET, TP-1.
- FOR PROPOSED LIGHTING, SEE LIGHTING PLAN SHEET, LT-1

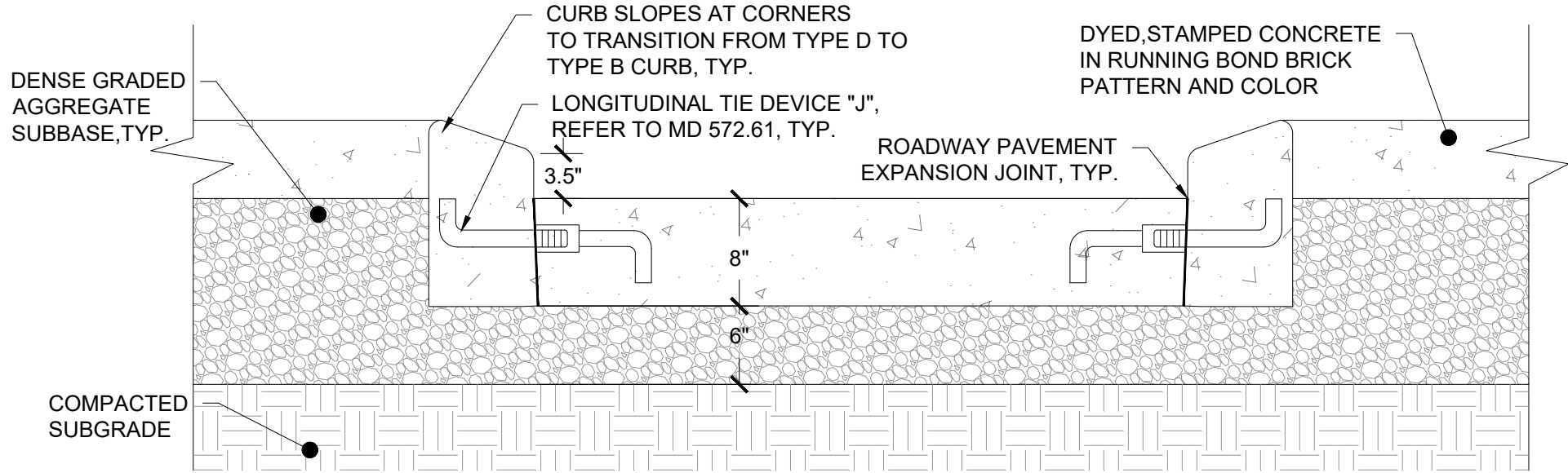
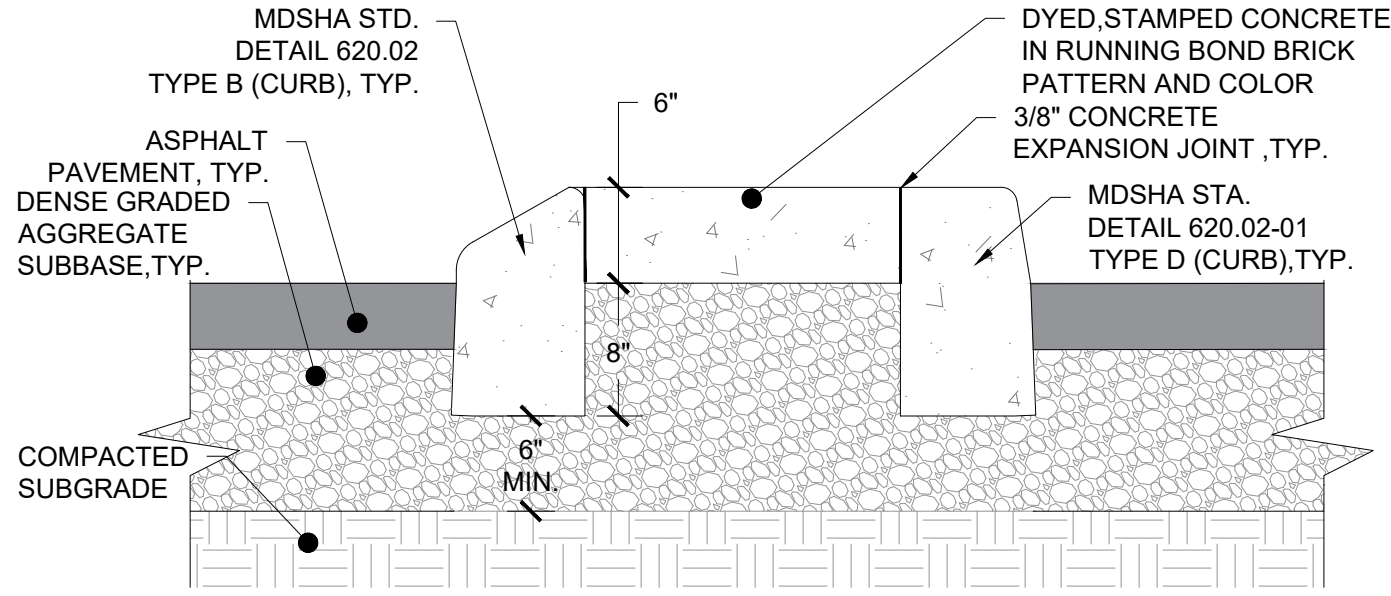
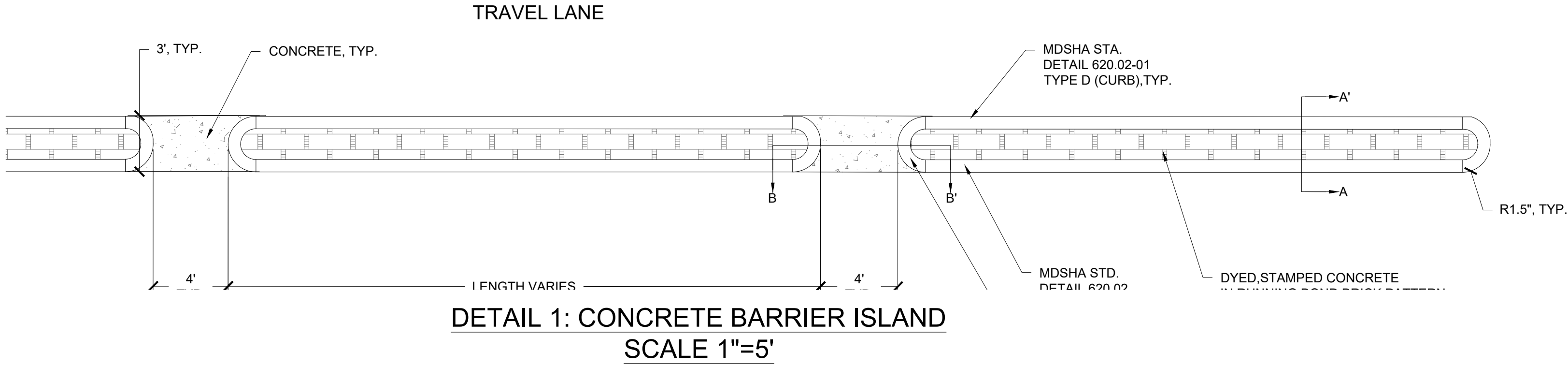


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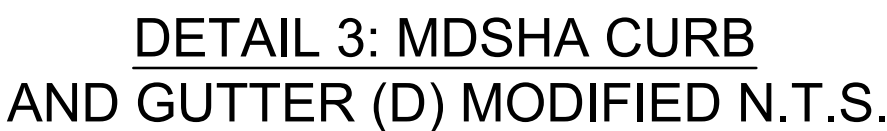
OWNER/ADDRESS: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE GAITHERSBURG, MARYLAND								MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING MR2020030 - BASE MAP # 209NW05 - TAX MAP # 122 CAPITAL CRESCENT SURFACE TRAIL PHASE 2 WILLOW LANE TO 47TH STREET ROADWAY PLAN SCALE 1"=20' DATE APRIL 16, 2020 DWG. C5.0 SHEET NO. 6 OF 26			
CONTACT:								RECOMMENDED FOR APPROVAL							
PROJECT MANAGER MATT JOHNSON, AICP 240-777-7237								Chief, Transportation Planning and Design Section APPROVED							
								Chief, Division of Transportation Engineering							
NO.	REVISION	DATE	BY					DESIGNED BY	LB	DRAWN BY	VR	CHECKED BY	RP		



NO.	REVISION	DATE	BY	

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Transportation Planning and Design Section APPROVED	Date
Chief, Division of Transportation Engineering	Date
DESIGNED BY <u>LB</u>	DRAWN BY <u>VSE</u>
CHECKED BY <u>RP</u>	

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING MR2020030 - BASE MAP # 209NW05 - TAX MAP # 122	
CAPITAL CRESCENT SURFACE TRAIL PHASE 2 WILLOW LANE TO 47TH STREET HARDSCAPE DETAILS-1	
SCALE <u>NOTED ABOVE</u>	DATE <u>APRIL 16, 2020</u>
DWG. C5.1	SHEET NO. <u>7</u> OF <u>26</u>


























SIGNING AND PAVEMENT MARKINGS

1. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC UNLESS OTHERWISE NOTED.
2. ALL NEW SIGNS SHALL BE HIGH INTENSITY REFLECTIVE SHEETING MEETING THE REQUIREMENTS OF AASHTO M268.
3. PROPOSED SIGNS SHALL BE INSTALLED SO THAT NO PORTION OF THE SIGN PANEL OVERHANGS ADJACENT ROADWAY PAVEMENT, I.E. SHALL NOT HANG IN FRONT OF A FACE OF CURB.
4. PROPOSED SIGN POSTS SHALL BE LOCATED A MINIMUM OF 2 FEET BEHIND ANY ADJACENT FACE OF CURB. IF LOCATED IN OR ADJACENT TO SIDEWALKS, A 60" MINIMUM CLEAR IS REQUIRED BY SHA FOR PASSING SPACE ON EXISTING AND PROPOSED SIDEWALKS SHALL BE MAINTAINED.
5. PROPOSED SIGNS AND RELOCATED EXISTING SIGNS SHALL BE INSTALLED SO THEY DO NOT BLOCK THE VISIBILITY OF ANY EXISTING SIGNS OR SIGNALS, OR OBSTRUCT SIGHT LINES AT INTERSECTIONS.
6. PROPOSED SIGNS AND POSTS SHALL BE CLEAR OF EXISTING FIRE HYDRANTS, SURFACE UTILITY, AND OVERHEAD UTILITY EQUIPMENT A MINIMUM OF 10 FEET.
7. FOR NEW POST INSTALLATION, THE CONTRACTOR SHALL VERIFY THAT THERE ARE NO CONFLICTING UNDERGROUND OR OVERHEAD UTILITIES.
8. NEW POST INSTALLATION SHALL COMPLY WITH MD SHA STANDARD NO. MD 802.04 AND MD 813.08-1.
9. SIGNS MOUNTED TO EXISTING LIGHT, SIGNAL OR UTILITY POLES SHALL BE FASTENED WITH A MANUFACTURED STEEL BANDING SYSTEM PER MD SHA STANDARD NO. MD 813.08. POLES SHALL NOT BE DRILLED DIRECTLY. THE CONTRACTOR SHALL SUBMIT MANUFACTURER INFORMATION ON THE BANDING SYSTEM TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
10. IF SIGN INSTALLATION IS SHOWN ON A POLE THAT IS NOT OWNED BY THE COUNTY, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER (UTILITY COMPANY OR PROPERTY OWNER). THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING REQUIRED PERMISSION.
11. ALL CROSSWALKS SHALL BE INSTALLED CONNECTING THE CURB RAMPS SUCH THAT THE CURB RAMPS FALL WITHIN THE MARKED CROSSWALK. MINIMUM CROSSWALK WIDTH IS 10 FEET. DIAGONAL CORNER CURB RAMPS SHALL HAVE A CLEAR SPACE OF FOUR FEET WITHIN THE CROSSWALK MARKINGS. CROSSWALK MARKINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO FINAL INSTALLATION.

SIGN SCHEDULE					
SHEET NO.	SIGN DESCRIPTION	APPROX. LOCATION	SIZE (INCHES)	SF	NEW SIGN POST (LF)
9	R5-1	STA. 43+18.47, 17.01 LT ON WILLOW LN	-	0	0
9	D1-1(X4)	STA. 43+18.47, 17.01 LT ON WILLOW LN	-	0	0
9	D3-2	STA. 43+16.46, 15.61 RT ON WILLOW LN	-	0	0
9	R1-1	STA. 43+64.82, 38.08 RT ON WILLOW LN	-	0	0
9	R3-2	STA. 43+64.82, 38.08 RT ON WILLOW LN	-	0	0
9	R7-4 MOD	STA. 43+63.33, 13.83 RT ON WILLOW LN	-	0	0
9	R7-5	STA. 43+63.33, 13.83 RT ON WILLOW LN	-	0	0
9	R1-1	STA. 43+90.85, 15.54 LT ON WILLOW LN	-	0	0
9	D3-2	STA. 50+17.19, 22.72 RT ON 47TH ST	-	0	0
9	R7-4 MOD	STA. 50+42.87, 22.40 RT ON 47TH ST	-	0	0
9	R3-1	STA. 50+87.65, 21.71 RT ON 47TH ST	-	0	0
9	R6-1L	STA. 50+87.65, 21.71 RT ON 47TH ST	-	0	0
9	R7-4 MOD	STA. 51+47.64, 22.51 RT ON 47TH ST	12 X 18	1.5	1
9	R7-6	STA. 51+48.37, 22.70 RT ON 47TH ST	12 X 18	1.5	1
9	R3-1	STA. 51+59.41, 22.58 RT ON 47TH ST	-	0	0
9	R6-1L	STA. 51+67.72, 27.37 RT ON 47TH ST	-	0	0
9	R7-2a MOD	STA. 51+95.38, 22.54 RT ON 47TH ST	12 X 18	1.5	1
9	R7-6	STA. 51+95.38, 22.54 RT ON 47TH ST	12 X 18	1.5	1
9	W3-1	STA. 52+31.02, 22.34 RT ON 47TH ST	-	0	0
9	R7-2a MOD	STA. 52+48.89, 20.51 RT ON 47TH ST	12 X 18	1.5	1
9	R7-4 MOD	STA. 52+48.89, 20.51 RT ON 47TH ST	12 X 18	1.5	1
9	R1-1	STA. 53+35.89, 17.69 RT ON 47TH ST	-	0	0
9	R5-1	STA. 53+35.89, 17.69 RT ON 47TH ST	-	0	0

MARKING LEGEND

EXISTING	PROPOSED	
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		SIGN AND POST
		BICYCLE LANE SYMBOL
		SHARED LANE MARKING SYMBOL
	5" SWL	5" SOLID WHITE LANE LINE
	10" SWL	10" SOLID WHITE LANE LINE
	5" BWL	5" BROKEN WHITE LANE LINE (10' STRIPE, 30' SKIP)
	5" DWL OR 5" DYL	5" DOTTED WHITE OR YELLOW LANE LINE (2' STRIPE, 4' SKIP)
	10" DWL	10" DOTTED WHITE LANE LINE (2' STRIPE, 4' SKIP)
	5" SYL	5" SOLID YELLOW LANE LINE
	5" SYCL	5" SOLID YELLOW CENTERLINE
	5" DAYCL	5" DASHED YELLOW CENTER LINE (3' STRIPE, 9' SKIP)
	5" DSYCL	5" DOUBLE SOLID YELLOW CENTERLINE
	5" SBYCL	5" SOLID YELLOW LANE LINE WITH 5" BROKEN YELLOW LANE LINE (10' STRIPE, 30' SKIP)
	8" SWCT	8" SOLID WHITE/BLACK CONTRAST TAPE (SUGGESTED MANUFACTURER: 3M STAMARK OR APPROVE EQUAL)
	10" SWCHL	10" SOLID WHITE CHANNELIZATION LINE (45° TYP.)
	10" SYCHL	10" SOLID YELLOW CHANNELIZATION LINE (45° TYP.)
	12" SWL	12" SOLID WHITE LINE
	16" SL	16" STOP LINE
	24" SL	24" STOP LINE
	 HVCW	CROSSWALK WITH 2' SWL - 5' O.C. ALIGNED WITH DIRECTION OF TRAVEL UNLESS OTHERWISE NOTED, REFER TO MDMUTCD
		WHITE PAVEMENT ARROW, REFER TO MDMUTCD
		BIKE LANE WHITE PAVEMENT ARROW, REFER TO MDMUTCD
		GREEN PAVEMENT MARKING MATERIAL, PREFORMED THERMOPLASTIC
		GREEN PAVEMENT MARKING MATERIAL, LIQUID EPOXY-BASED
		SIGN
		ADVANCE SPEED HUMPS MARKING, REFER TO MDMUTCD
		HALF-SIZED ADVANCE SPEED HUMPS MARKING FOR BIKE LANE, REFER TO MDMUTCD
		YIELD AHEAD TRIANGLE SYMBOLS, REFER TO MDMUTCD
		12" YIELD AHEAD TRIANGLE SYMBOLS FOR BIKE LANE, REFER TO MDMUTCD
		BICYCLE CROSSING STRIPING

TOOLE
DESIGN

8484 GEORGIA AVENUE, SUITE 800, SILVER SPRING, MD 20910
PHONE: (301) 927-1900 FAX: (301) 927-2800
www.tooledesign.com

DRAFT
NOT FOR CONSTRUCTION

OWNER/ADDRESS:
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:

PROJECT MANAGER
MATT JOHNSON, AICP
240-777-7237

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section

Date

APPROVED

Chief, Division of Transportation Engineering

Date

DESIGNED BY LB

DRAWN BY VR

CHECKED BY RP

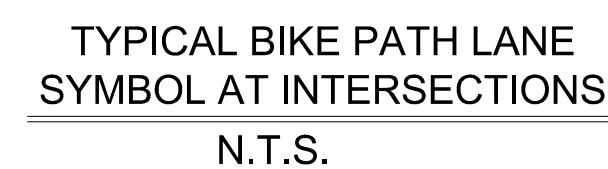
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MR2020030 - BASE MAP # 209NW05 - TAX MAP # 122

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
WILLOW LANE TO 47TH STREET
SIGNING AND MARKING NOTES

SCALE DATE APRIL 16, 2020

DWG. C6.0

SHEET NO. 10 OF 26



OWNER/ADDRESS:					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING MR2020030 - BASE MAP # 209NW05 - TAX MAP # 122	
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE GAITHERSBURG, MARYLAND						CAPITAL CRESCENT SURFACE TRAIL PHASE 2 WILLOW LANE TO 47TH STREET SIGNING AND MARKING DETAILS	
CONTACT:					RECOMMENDED FOR APPROVAL		
					_____ Chief, Transportation Planning and Design Section APPROVED	_____ Date	
					_____ Chief, Division of Transportation Engineering	_____ Date	
PROJECT MANAGER MATT JOHNSON, AICP 240-777-7237					DESIGNED BY LB	DRAWN BY VR	CHECKED BY RP
	NO.	REVISION	DATE	BY	DWG. C6.1		SHEET NO. 11 OF 26

1. TREE PROTECTION AND LANDSCAPE PLAN PREPARED BY GREG O'HARE, CA, LTE, MD L.P.F. #658 USING FIELD DATA COLLECTED ON MARCH 15, 2018.

3. NO FOREST, 100-YEAR FLOODPLAINS, OR WETLANDS/WATERWAYS EXIST WITHIN THE PROJECT AREA. THE SITE IS LOCATED IN THE POTOMAC RIVER MONTGOMERY COUNTY WATERSHED.

MD DNR & USFWS DETERMINED THAT NO RECORDS OF RTE SPECIES OR RTE HABITAT EXISTS WITHIN THE PROJECT LIMITS. NO RTE SPECIES OR RTE HABITAT WERE OBSERVED DURING FIELD INVESTIGATIONS.

7. SUPPLEMENTAL WATERING OF SIGNIFICANT/SPECIMEN TREES SHALL BE CONDUCTED AT THE DIRECTION OF THE MD LTE AND WITH PERMISSION FROM PROPERTY OWNERS TO REDUCE WATER STRESS DURING CONSTRUCTION. SOIL MOISTURE MONITORING WILL BE REQUIRED TO FACILITATE THIS ACTIVITY.

3. CONSTRUCTION ACCESS SHALL BE LIMITED ADJACENT TO SIGNIFICANT/SPECIMEN TREES AND ALL WORK ACTIVITIES NEAR THESE TREES SHALL BE SUPERVISED AND DIRECTED BY THE PROJECT MD LTE. SHALLOW ROOT PRUNING TO THE DEPTH OF EXCAVATION MAY BE REQUIRED ADJACENT TO SIGNIFICANT/SPECIMEN TREES, AS DIRECTED BY THE MD LTE.

1. MITIGATION FOR TREE REMOVAL IS SHOWN IN A TABLE ON THIS SHEET. MCDOT'S BLANKET PERMIT FOR THE MONTGOMERY COUNTY ROADSIDE TREE LAW (PERMIT #361405) AND THE TOWN OF CHEVY CHASE'S BLANKET PERMIT FOR MARYLAND DEPARTMENT OF NATURAL RESOURCES ROADSIDE TREE LAW (PERMIT # XXXXX) WILL BE USED FOR THIS PROJECT.

AN ON-SITE PRE-CONSTRUCTION MEETING IS REQUIRED AFTER THE LOD HAS BEEN STAKED AND FLAGGED, BUT BEFORE ANY CLEARING OR GRADING BEGINS. THE MD LITE WILL IMPLEMENT THE TREE PROTECTION MEASURES.

- ROOT PRUNING
- CROWN REDUCTION OR PRUNING
- WATERING
- FERTILIZING
- VERTICAL MULCHING
- ROOT AERATION MATTING

MEASURES NOT SPECIFIED ON THE TREE PROTECTION AND LANDSCAPE PLAN MAY BE REQUIRED AS DETERMINED BY THE MD LTE.

4. TEMPORARY TREE PROTECTION DEVICES SHALL BE INSTALLED PER THE TREE PROTECTION AND LANDSCAPE PLAN AND PRIOR TO ANY CONSTRUCTION ACTIVITIES. TREE PROTECTION FENCING LOCATIONS SHALL BE STAKED PRIOR TO THE PRE-CONSTRUCTION MEETING. THE COUNTY INSPECTOR, IN COORDINATION WITH THE DPS SEDIMENT CONTROL INSPECTOR, MAY MAKE FIELD ADJUSTMENTS TO INCREASE THE SURVIVABILITY OF TREES SHOWN AS SAVED ON THE APPROVED PLAN. TEMPORARY TREE PROTECTION DEVICES MAY INCLUDE:

5. TEMPORARY PROTECTION DEVICES SHALL BE MAINTAINED AND INSTALLED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION PROJECT AND MUST NOT BE ALTERED WITHOUT PRIOR APPROVAL FROM THE MD LTE. NO EQUIPMENT, TRUCKS, MATERIALS, OR DEBRIS MAY BE STORED WITHIN THE TREE PROTECTION FENCE AREAS DURING THE ENTIRE CONSTRUCTION PROJECT. NO VEHICLE OR EQUIPMENT ACCESS TO THE FENCED AREA WILL BE PERMITTED. TREE PROTECTION SHALL NOT BE REMOVED WITHOUT PRIOR APPROVAL FROM DPS INSPECTOR.

6. PERIODIC INSPECTION BY THE MD LTE WILL OCCUR DURING THE CONSTRUCTION PROJECT. CORRECTIONS AND REPAIRS TO ALL TREE PROTECTION DEVICES MUST BE MADE WITHIN THE TIMEFRAME ESTABLISHED BY THE MD LTE.

8. AFTER CONSTRUCTION IS COMPLETED, AN INSPECTION FROM DPS SHALL BE REQUESTED. CORRECTIVE MEASURES MAY INCLUDE:

9. AFTER INSPECTION AND COMPLETION OF CORRECTIVE MEASURES HAVE BEEN UNDERTAKEN, ALL TEMPORARY PROTECTION DEVICES SHALL BE REMOVED FROM THE SITE. REMOVAL OF TREE PROTECTION DEVICES THAT ALSO OPERATE FOR EROSION AND SEDIMENT CONTROL MUST BE COORDINATED WITH BOTH THE DEPARTMENT OF PERMITTING SERVICES AND THE MD LITE. NO ADDITIONAL GRADING, SODDING OR BURIAL MAY TAKE PLACE AFTER THE TREE PROTECTION FENCING IS REMOVED.

TREE ID	SCIENTIFIC NAME	COMMON NAME	DBH	CONDITION	TREE REMOVAL	SHEET NO.
T-43*	<i>Pinus strobus</i>	White pine	27	Fair	No	TP-1
T-53*	<i>Zelkova serrata</i>	Japanese Zelkova	24	Fair	No	TP-1
T-72**	<i>Quercus phellos</i>	Willow oak	35	Fair	Yes	TP-1
T-74*	<i>Quercus phellos</i>	Willow oak	27	Fair	No	TP-1

***Specimen Trees = Trees Having a Diameter Measured at 4.5 Feet Above the Ground of 30 Inches or More (DBH), or Trees Having 75% or More of the Diameter of the Current State Champion Tree.*

Affected Right-of-Way	Number of Trees Removed	Mitigation Ratio	Required Planting	Proposed On Site Planting	Remainder Replacement Requirement
County ROW, Subject to Montgomery County Roadside Tree Protection Law	7 Trees: T-37, T-38, T-39, T-40, T-41, T-42, & T-72**	3:1	21 Trees	1 Tree	20 Trees
Town ROW, Subject to DNR Roadside Tree Law	9 Trees: T-48, T-49, T-50, T-51, T-52, T-53*, T-62, T-63, & T-64	1:1	9 Trees	2 Trees	7 Trees

1. TO MEET THE MONTGOMERY COUNTY ROADSIDE TREE LAW 3:1 REPLACEMENT REQUIREMENT, ONE 1" CALIPER TREE WILL BE PLANTED ON SITE WITHIN IN THE EXISTING COUNTY ROAD RIGHT-OF-WAY (ROW). FOR PERMIT COMPLIANCE, \$750 PER NON-MITIGATED ROADSIDE TREE REMOVAL (\$250 PER REMAINDER REPLACEMENT TREE) WILL BE PAID INTO THE STREET TREE FUND PRIOR TO CONSTRUCTION FOR A TOTAL OF \$5,000.
2. TO MEET THE MARYLAND DEPARTMENT OF NATURAL RESOURCES ROADSIDE TREE LAW 1:1 REPLACEMENT REQUIREMENT, TWO 1" CALIPER TREES WILL BE PLANTED IN THE TOWN OF CHEVY CHASE ROW FOR PERMIT COMPLIANCE AND ROW ENHANCEMENT.



PROJECT MANAGER
MATT JOHNSON, AICP
240-777-7237

[illegible]

TREE ID	SCIENTIFIC NAME	COMMON NAME	DBH	CONDITION	TREE REMOVAL	SHEET NO.
T-33	<i>Lagerstroemia indica</i>	Crape myrtle	6	Fair	No	TP-1
T-34	<i>Lagerstroemia indica</i>	Crape myrtle	4	Poor	No	TP-1
T-35	<i>Betula nigra</i>	River birch	12	Fair	No	TP-1
T-36	<i>Quercus palustris</i>	Pin oak	3	Good	No	TP-1
T-37	<i>Acer rubrum</i>	Red maple	18	Fair	Yes	TP-1
T-38	<i>Quercus palustris</i>	Pin oak	18	Fair	Yes	TP-1
T-39	<i>Acer platanoides</i>	Norway maple	6	Fair	Yes	TP-1
T-40	<i>Acer rubrum</i>	Red maple	9	Good	Yes	TP-1
T-41	<i>Acer rubrum</i>	Red maple	15	Fair	Yes	TP-1
T-42	<i>Acer rubrum</i>	Red maple	15	Fair	Yes	TP-1
T-43*	<i>Pinus strobus</i>	White pine	27	Fair	No	TP-1
T-44	<i>Gleditsia triacanthos</i> var. <i>inermis</i>	Thornless honey locust	22	Fair	No	TP-1
T-45	<i>Pinus strobus</i>	White pine	18	Fair	No	TP-1
T-46	<i>Pinus strobus</i>	White pine	18	Fair	No	TP-1
T-47	<i>Pinus strobus</i>	White pine	14	Fair	No	TP-1
T-48	<i>Prunus</i> sp.	Flowering cherry sp.	2	Good	Yes	TP-1
T-49	<i>Prunus</i> sp.	Flowering cherry sp.	2	Good	Yes	TP-1
T-50	<i>Zelkova serrata</i>	Japanese Zelkova	7	Good	Yes	TP-1
T-51	<i>Zelkova serrata</i>	Japanese Zelkova	10	Fair	Yes	TP-1
T-52	<i>Zelkova serrata</i>	Japanese Zelkova	5	Good	Yes	TP-1
T-53*	<i>Zelkova serrata</i>	Japanese Zelkova	24	Fair	Yes	TP-1
T-54	<i>Pinus strobus</i>	White pine	19	Fair	No	TP-1
T-55	<i>Pinus strobus</i>	White pine	10	Fair	No	TP-1
T-56	<i>Pyrus calleryana</i>	Bradford pear	19	Good	No	TP-1
T-57	<i>Tsuga canadensis</i>	Hemlock sp.	15	Good	No	TP-1
T-58	<i>Pinus strobus</i>	White pine	19	Fair	No	TP-1
T-59	<i>Pinus strobus</i>	White pine	20	Fair	No	TP-1
T-60	<i>Juniperus virginiana</i>	Eastern red cedar	15	Poor	No	TP-1
T-61	<i>Ulmus americana</i>	American elm	16	Fair	No	TP-1
T-62	<i>Zelkova serrata</i>	Japanese Zelkova	6	Fair	Yes	TP-1
T-63	<i>Zelkova serrata</i>	Japanese Zelkova	11	Fair	Yes	TP-1
T-64	<i>Zelkova serrata</i>	Japanese Zelkova	9	Fair	Yes	TP-1
T-65	<i>Magnolia x soulangeana</i>	Saucer magnolia	9	Fair	No	TP-1
T-66	<i>Liquidambar styraciflua</i>	Sweetgum	15	Poor	No	TP-1
T-67	<i>Tilia cordata</i>	Littleleaf linden	16	Fair	No	TP-1
T-68	<i>Tilia cordata</i>	Littleleaf linden	19	Fair	No	TP-1
T-69	<i>Tilia cordata</i>	Littleleaf linden	13	Fair	No	TP-1
T-70	<i>Tilia cordata</i>	Littleleaf linden	8	Fair	No	TP-1
T-71	<i>Tilia cordata</i>	Littleleaf linden	12	Fair	No	TP-1
T-72**	<i>Quercus phellos</i>	Willow oak	35	Fair	Yes	TP-1
T-73	<i>Quercus phellos</i>	Willow oak	18	Fair	No	TP-1
T-74*	<i>Quercus phellos</i>	Willow oak	27	Fair	No	TP-1

EXCELLENT - healthy tree with exceptional growth form; no visible defects; well-formed crown; few minor dead branches; this tree condition is rare.

GOOD - healthy tree; very minor defects/decay acceptable with callous forming/complete; well-formed crown; minor lean and/or few minor/major dead branches acceptable; vines may be growing along trunk but not present within crown.

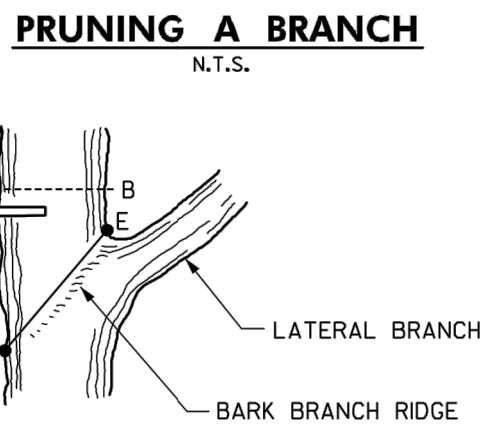
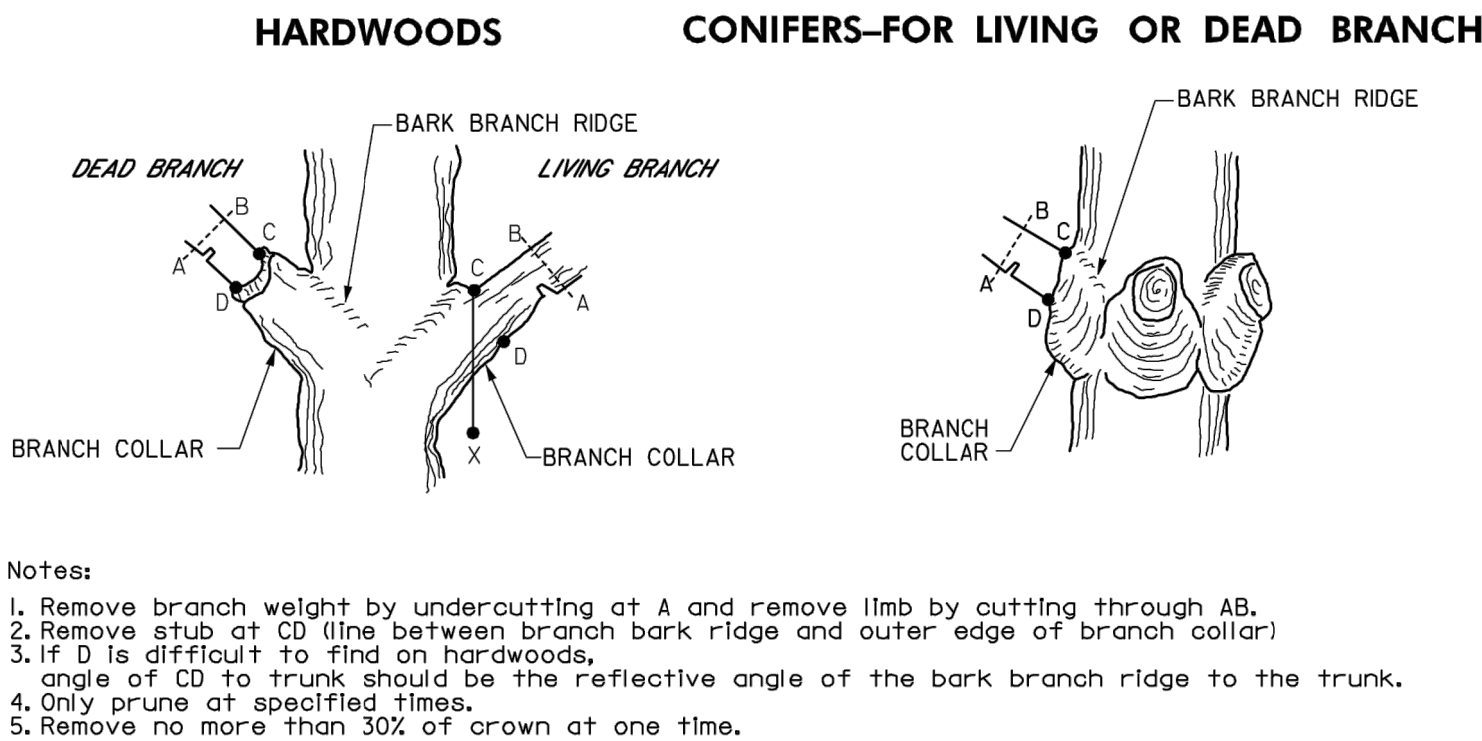
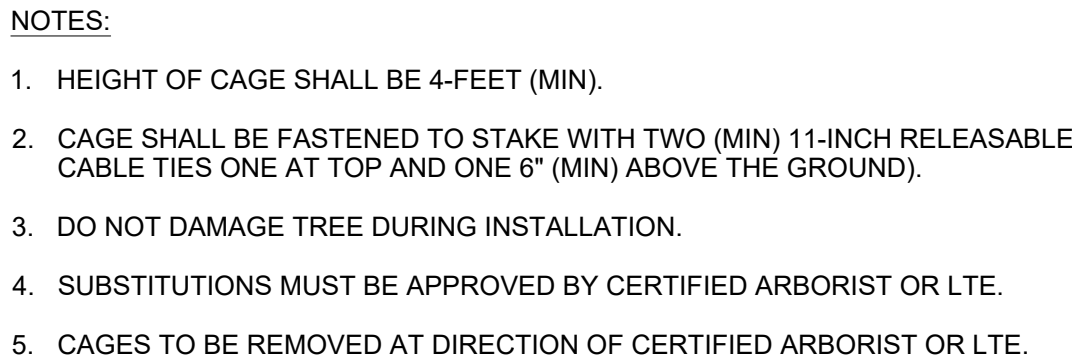
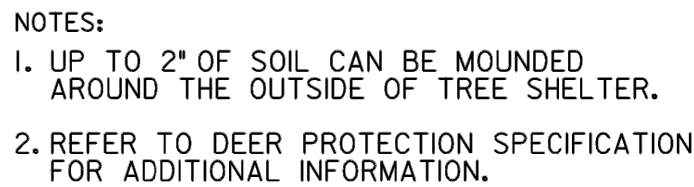
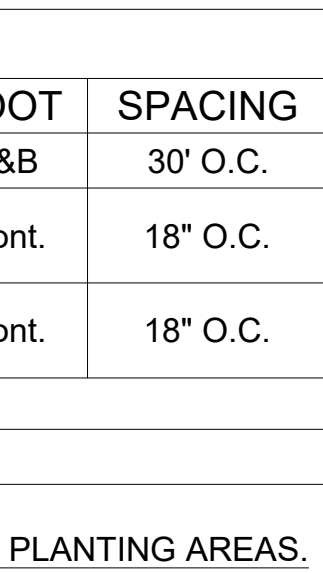
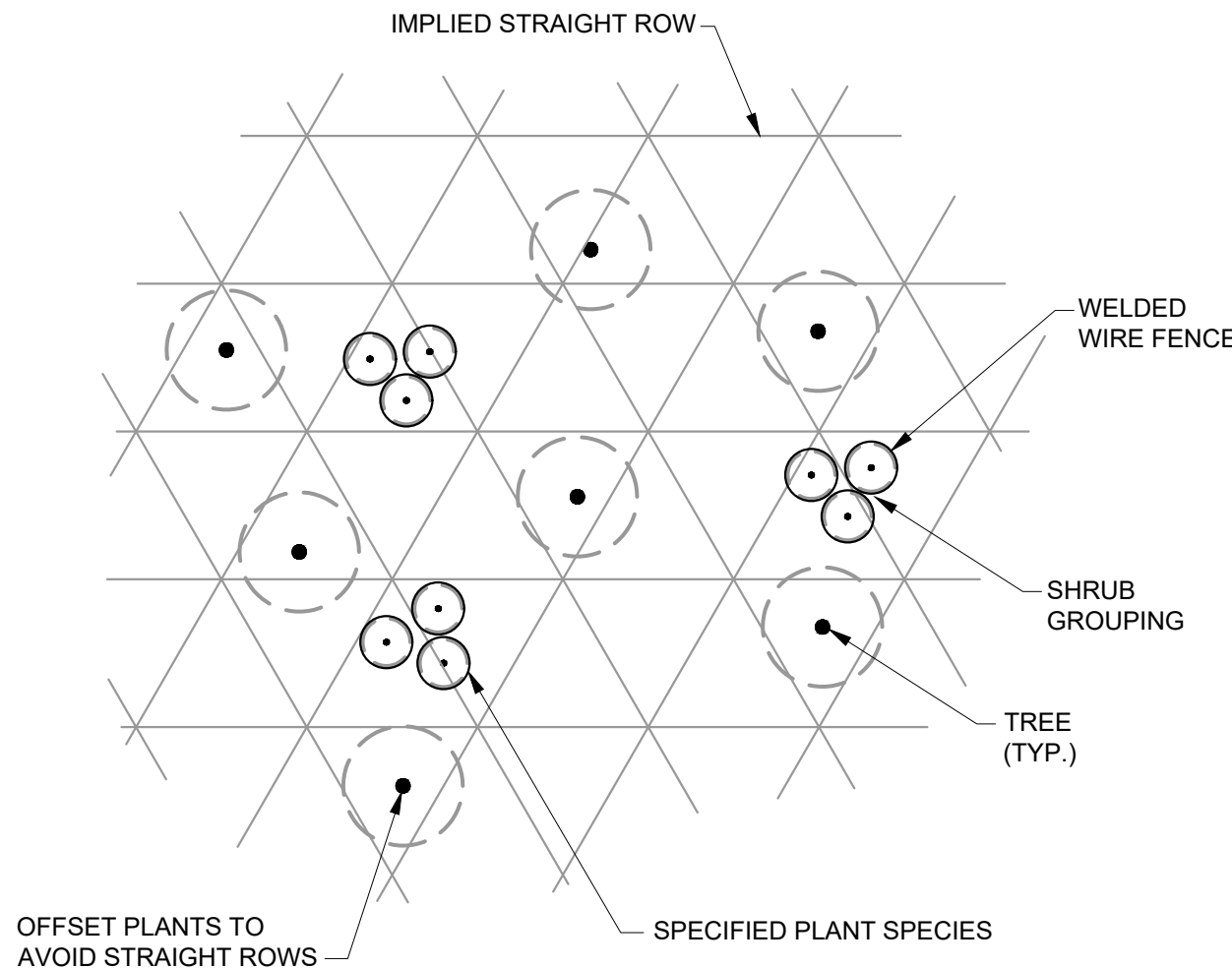
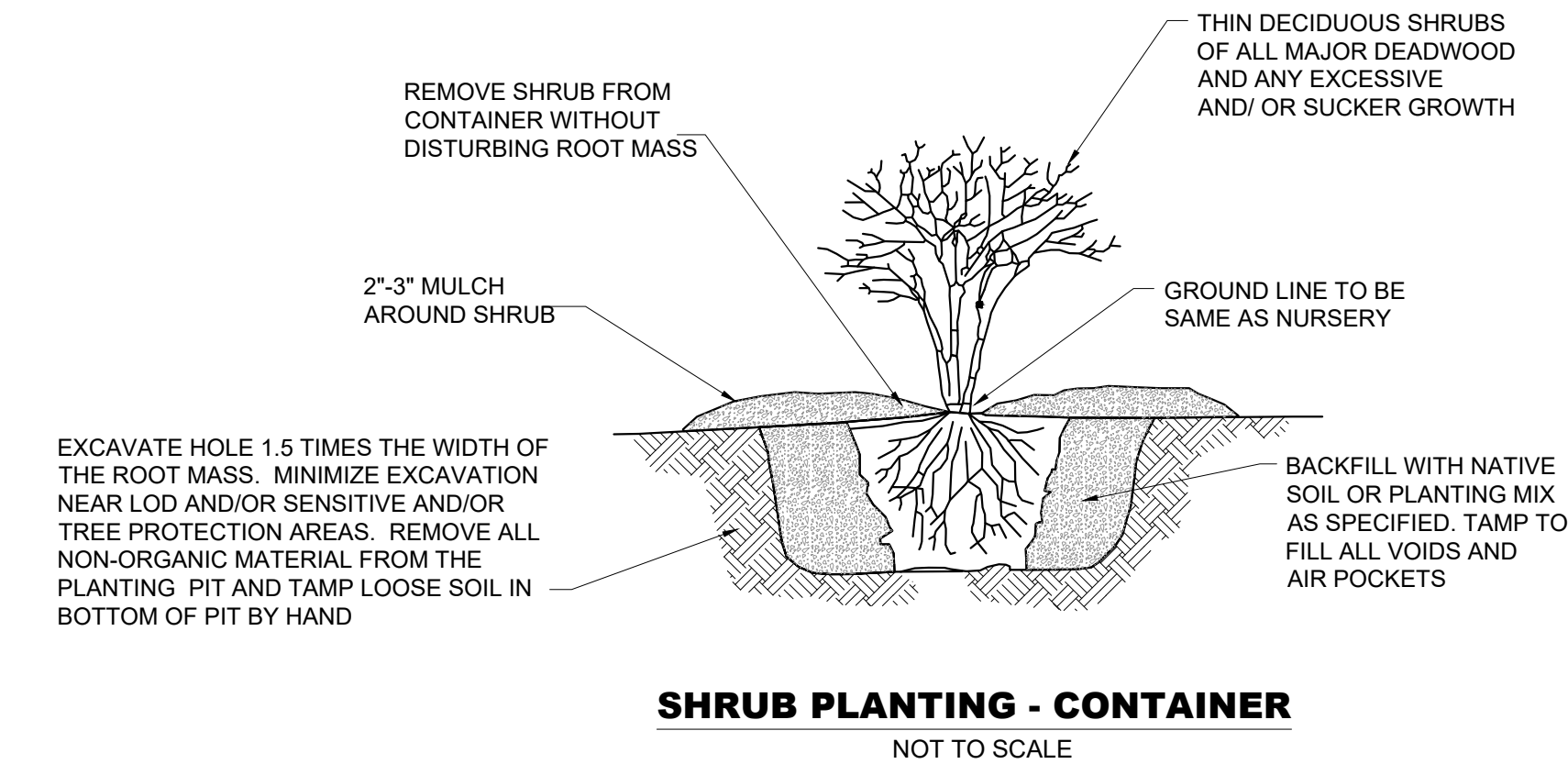
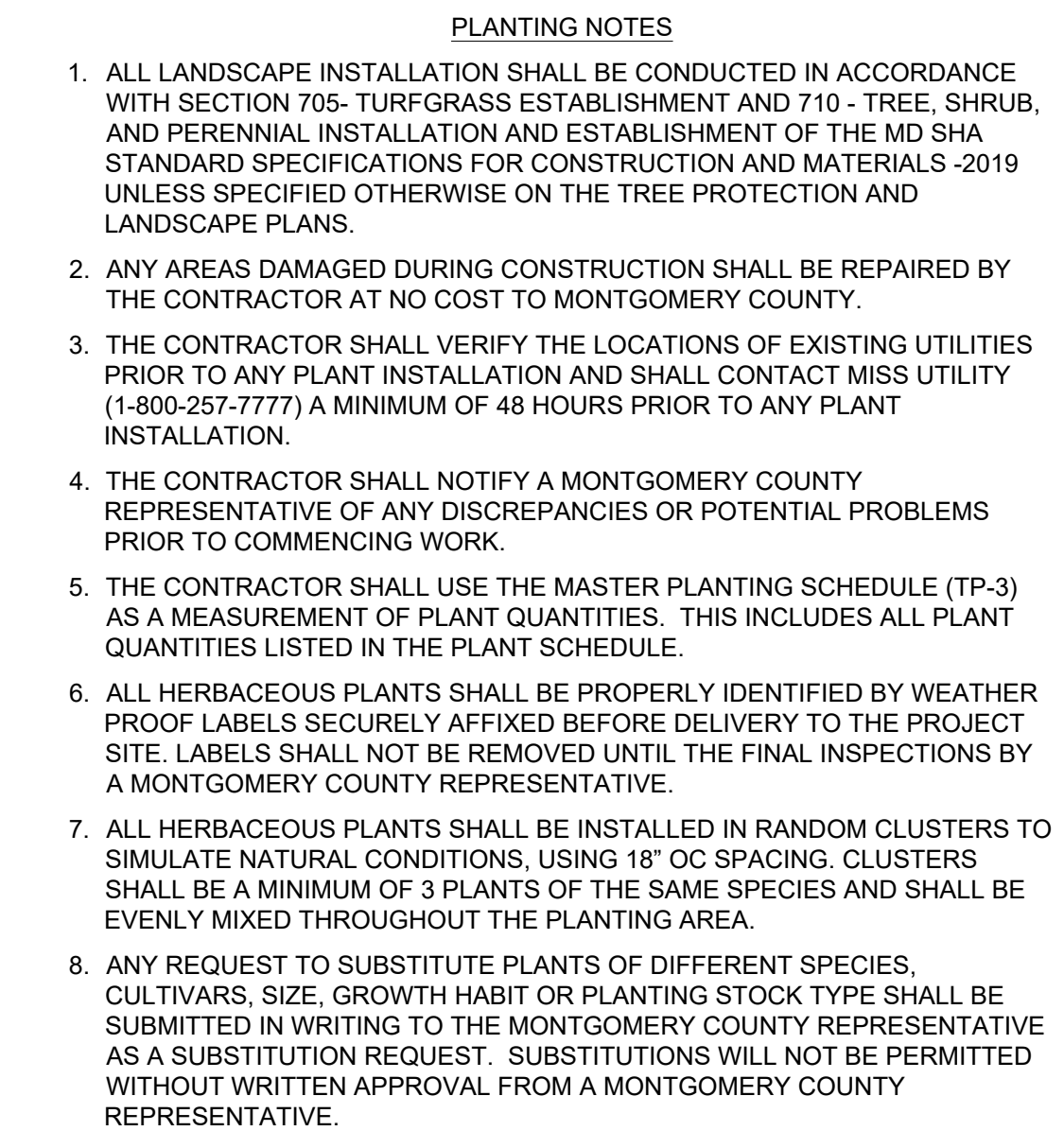
FAIR - health questionable/stress evident; structurally sound tree; defects present that do not affect structural integrity; moderate lean; minor/major dead branches may be present; crown not broken out but not necessarily well formed or even; vines may be growing along trunk and within crown.

Ex. Fair tree could be experiencing insect damage, or exhibit a growth form that makes it very susceptible to wind damage in an open setting

POOR - significant health problems; may be structurally unsound; may be dead or dying; may contain significant decay; may have broken or missing top/crown; may have heavy lean; vines may be significantly affecting tree health.

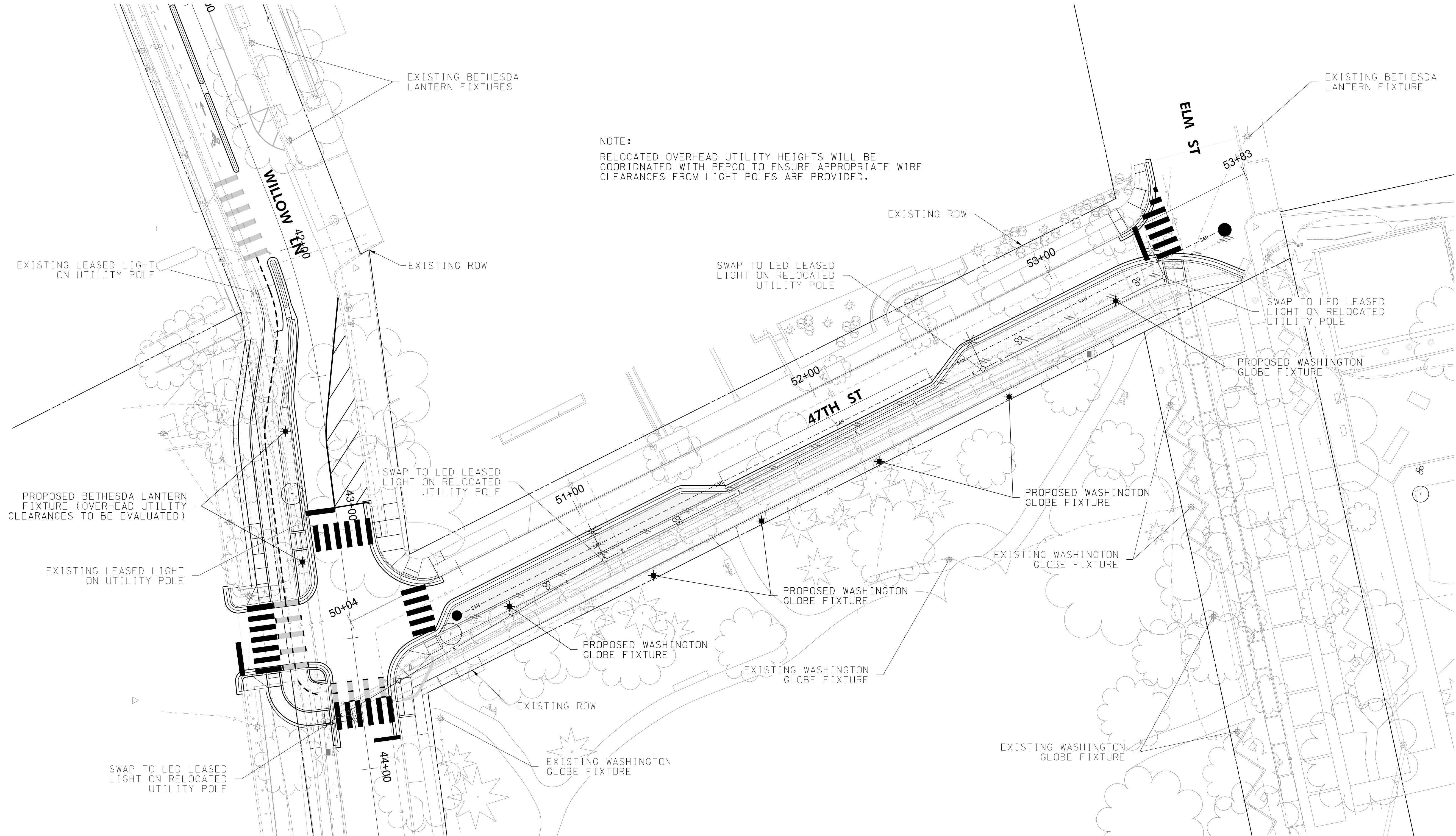
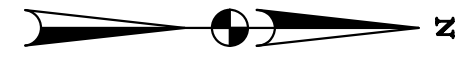
Note: These guidelines were developed in-house based on the professional judgment of our Certified Arborists and other senior environmental staff. These guidelines should be incorporated into documents (Such as FSD's) whenever a tree assessment is conducted.

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING <div style="border: 1px solid red; padding: 2px; display: inline-block; color: red;"> MR2020030 - BASE MAP # 209NW05 - TAX MAP # 122 </div> CAPITAL CRESCENT SURFACE TRAIL WILLOW AVE TO 47TH STREET TREE PROTECTION AND LANDSCAPE TABLES AND NOTES SCALE 1"=20' DATE 04/16/20
RECOMMENDED FOR APPROVAL <div style="display: flex; justify-content: space-between;"> <div style="width: 45%; border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="width: 45%; border-bottom: 1px solid black; margin-bottom: 5px; text-align: center;">Date</div> </div> Chief, Transportation Planning and Design Section APPROVED <div style="display: flex; justify-content: space-between;"> <div style="width: 45%; border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="width: 45%; border-bottom: 1px solid black; margin-bottom: 5px; text-align: center;">Date</div> </div> Chief, Division of Transportation Engineering	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> DESIGNED BY <u> MH </u> DRAWN BY <u> CP </u> CHECKED BY <u> GRO </u> </div> <div style="width: 45%;"> DWG. TP-2 </div> </div>
SHEET NO. <u> 14 </u> OF <u> 29 </u>	



LANDSCAPE SCHEDULE							
	KEY	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	ROOT	SPACING
TREES	CC	<i>Cercis canadensis</i>	Eastern Redbud	2	1" Cal.	B&B	30' O.C.
	IG-F	Ilex glabra 'Shamrock' (Female)	Shamrock Inkberry	8	3 Gal.	Cont.	18" O.C.
	IG-M	Ilex glabra 'Shamrock' (Male)	Shamrock Inkberry	4	3 Gal.	Cont.	18" O.C.
TURFGRASS ESTABLISHMENT				209 SY			
NOTE: APPLY TURFGRASS ESTABLISHMENT WITHIN THE VEGETATIVE BUFFER OUTSIDE OF PROPOSED TREE AND SHRUB PLANTING AREAS.							

OWNER/ADDRESS: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE GAITHERSBURG, MARYLAND CONTACT: PROJECT MANAGER MATT JOHNSON, AICP 240-777-7237																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</
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NOTE:
RELOCATED OVERHEAD UTILITY HEIGHTS WILL BE
COORDINATED WITH PEPCO TO ENSURE APPROPRIATE WIRE
CLEARANCES FROM LIGHT POLES ARE PROVIDED.

EXISTING LEASED LIGHT
ON UTILITY POLE

EXISTING ROW

SWAP TO LED LEASED
LIGHT ON RELOCATED
UTILITY POLE

EXISTING ROW

EXISTING BETHESDA
LANTERN FIXTURE

ELM ST

53+83

PROPOSED WASHINGTON
GLOBE FIXTURE

SWAP TO LED LEASED
LIGHT ON RELOCATED
UTILITY POLE

PROPOSED BETHESDA LANTERN
FIXTURE (OVERHEAD UTILITY
CLEARANCES TO BE EVALUATED)

EXISTING LEASED LIGHT
ON UTILITY POLE

SWAP TO LED LEASED
LIGHT ON RELOCATED
UTILITY POLE

51+00

47TH ST

52+00

PROPOSED WASHINGTON
GLOBE FIXTURE

EXISTING WASHINGTON
GLOBE FIXTURE

PROPOSED WASHINGTON
GLOBE FIXTURE

EXISTING WASHINGTON
GLOBE FIXTURE

PROPOSED WASHINGTON
GLOBE FIXTURE

EXISTING ROW

EXISTING WASHINGTON
GLOBE FIXTURE

EXISTING WASHINGTON
GLOBE FIXTURE

SWAP TO LED LEASED
LIGHT ON RELOCATED
UTILITY POLE

50+04

44+00

LIGHTING LEGEND

- ★ PROPOSED DECORATIVE LIGHT POLE WITH LED LUMINAIRE
- ⊙ EXISTING DECORATIVE LIGHT POLE TO REMAIN
- ⊙ PROPOSED LED LEASED LIGHT ON UTILITY POLE
- ⊙ EXISTING LEASED LIGHT ON UTILITY POLE

OWNER/ADDRESS:
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION
ENGINEERING
240-777-7220
DESIGN SECTION
240-777-7221

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Transportation Planning and Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
DESIGNED BY <u>WEW</u>	DRAWN BY <u>MRL</u>
CHECKED BY <u>WEW</u>	

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING	
CAPITAL CRESCENT SURFACE TRAIL 47TH STREET AND WILLOW LANE LIGHTING PLAN	
SCALE 1"=20'	DATE APRIL 2020
SHEET NO. 16 OF 26	

MR2020030 - BASE MAP # 209NW05 - TAX MAP # 122

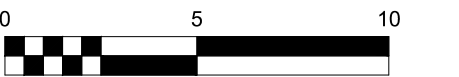
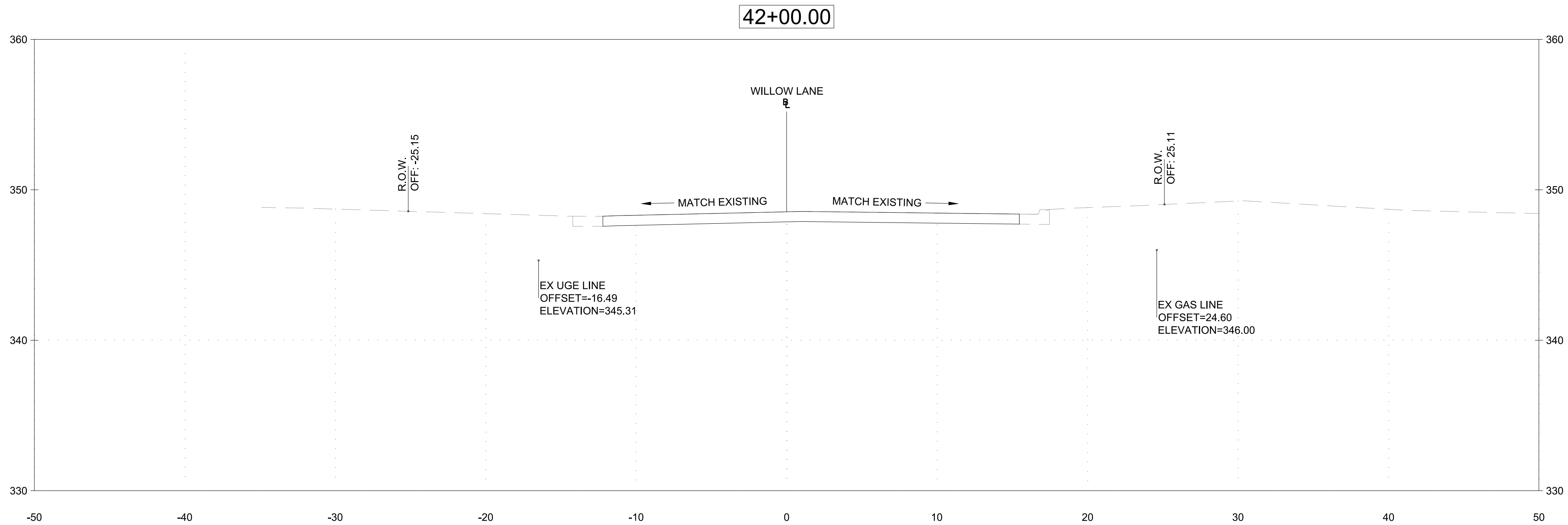
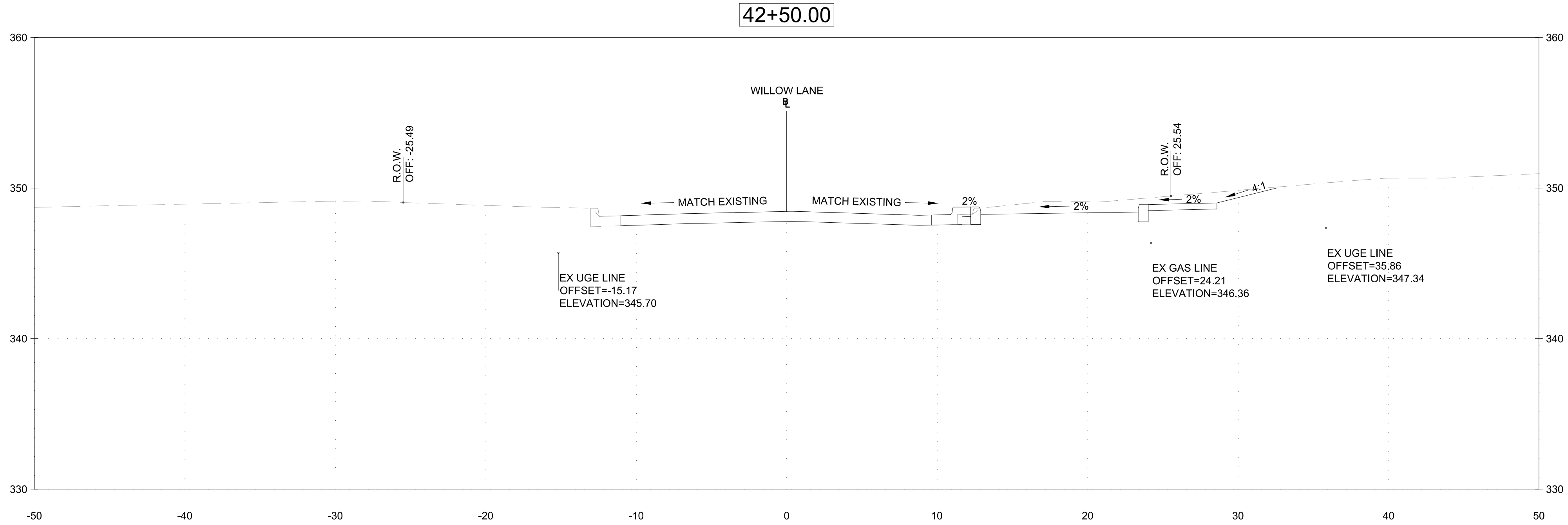
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700 EAST PRATT STREET, SUITE 500 | BALTIMORE, MD 21202
PH: (410) 728-2900

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PLOTTED: 4/12/2020
FILE: \\va001va001\2019\303\1884_MCDOT\Task_25_COST\PHASE_2_Capital_Crescent\CADD\Plan\LT-001_COST_P16.dgn



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GAITHERSBURG, MARYLAND

CONTACT:

PROJECT MANAGER
MATT JOHNSON, AICP
240-777-7237

NO.	REVISION	DATE	BY

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DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
APPROVED

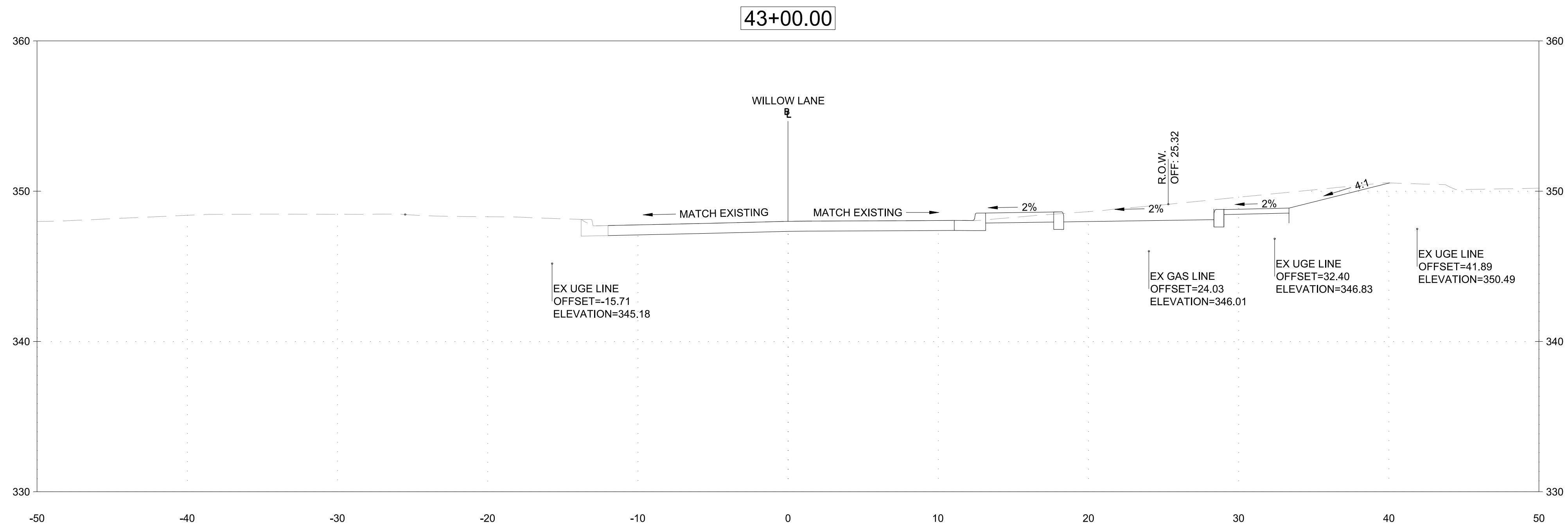
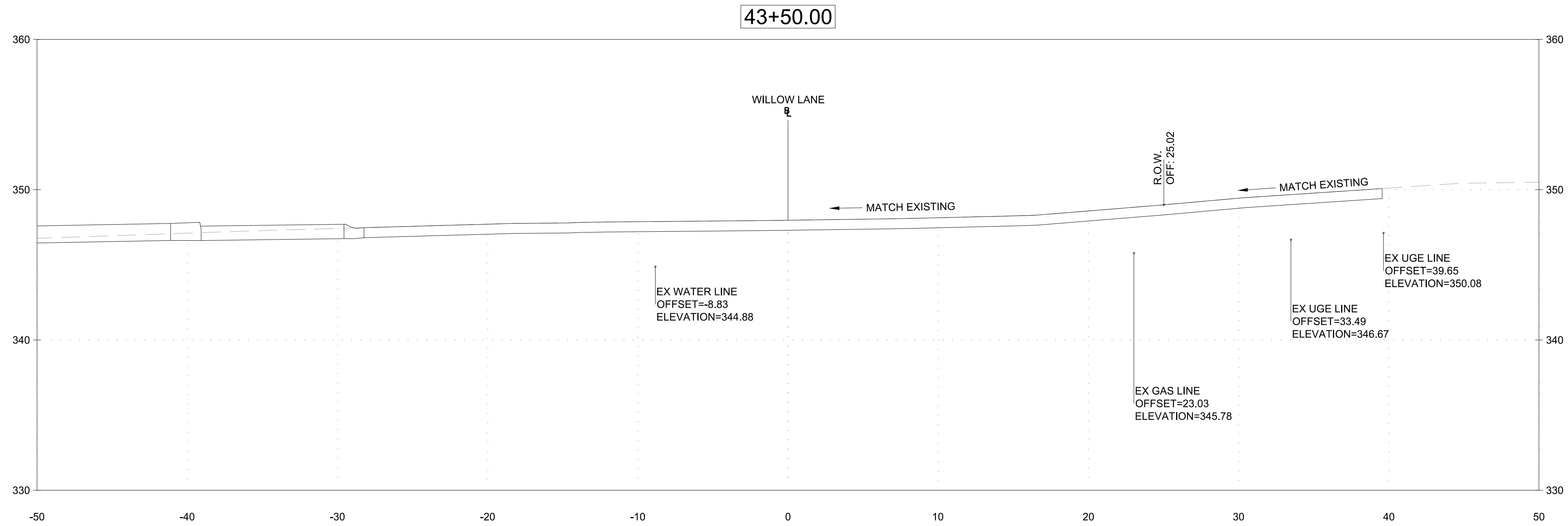
Chief, Division of Transportation Engineering

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MR2020030 - BASE MAP # 209NW05 - TAX MAP # 122
CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
47TH STREET AND WILLOW LANE
CROSS SECTIONS - 1

SCALE _____ DATE APRIL 16, 2020

DWG. C8.0 SHEET NO. 19 OF 26



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DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section

Date

APPROVED

Chief, Division of Transportation Engineering

Date

DESIGNED BY LB DRAWN BY JK CHECKED BY RP

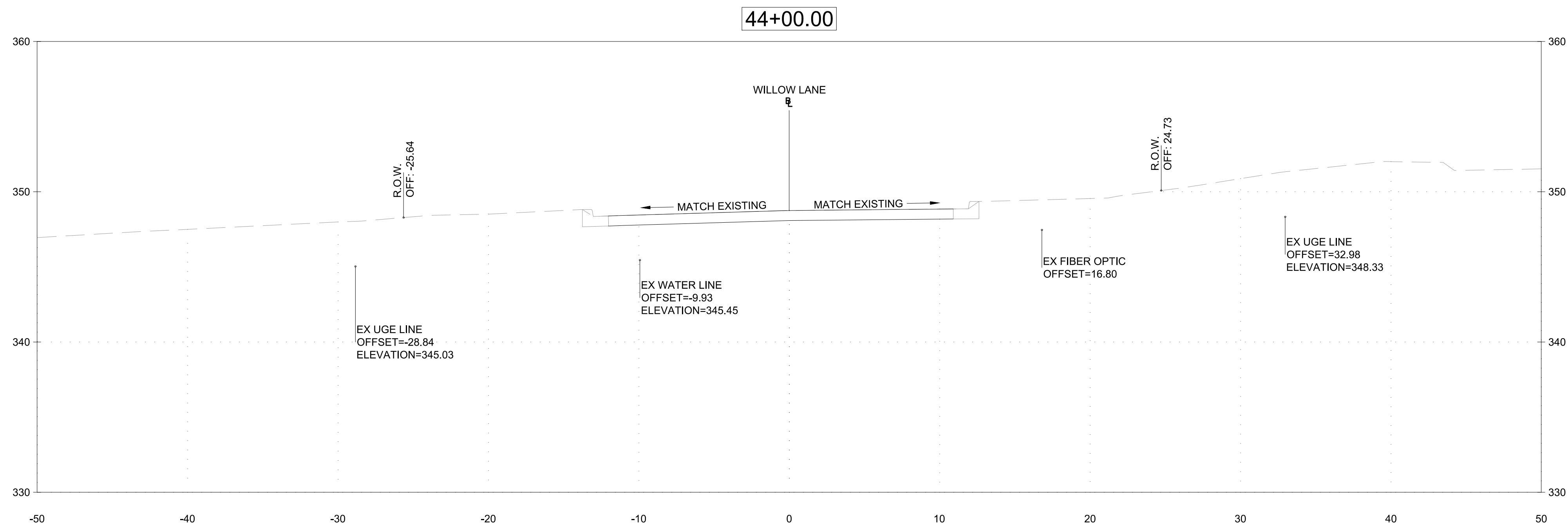
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MR2020030 - BASE MAP # 209NW05 - TAX MAP # 122

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
47TH STREET AND WILLOW LANE
CROSS SECTIONS - 2

SCALE _____ DATE APRIL 16, 2020

DWG. C8.1

SHEET NO. 20 OF 26



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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section

Date

APPROVED

Chief, Division of Transportation Engineering

Date

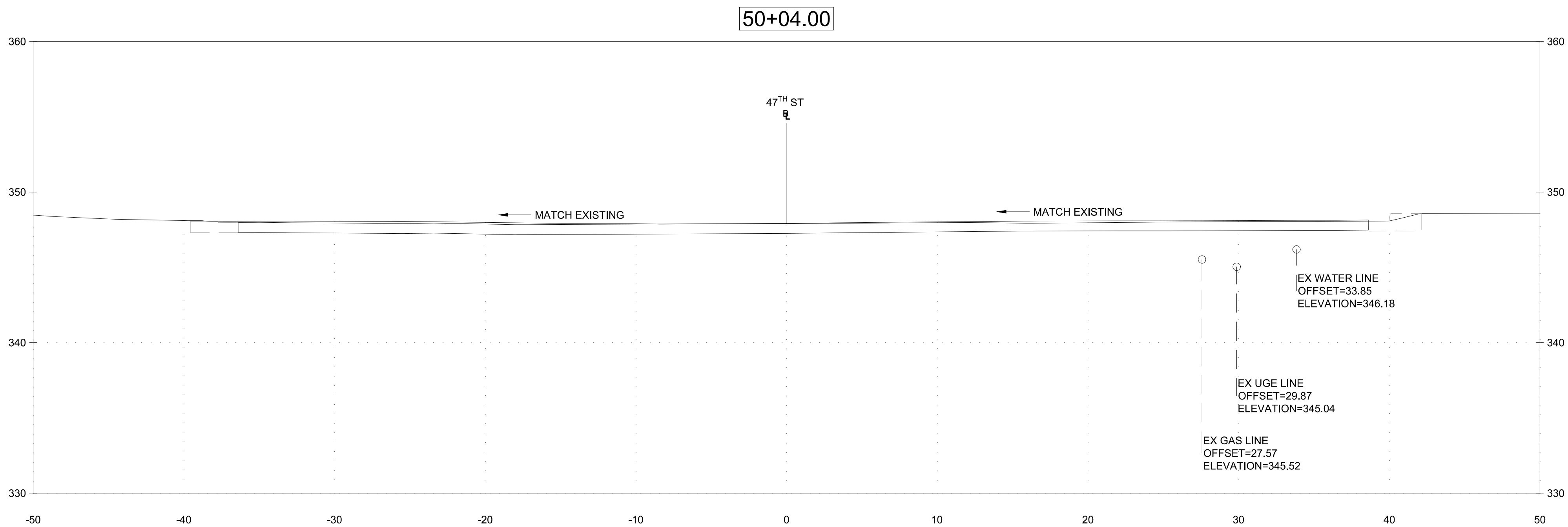
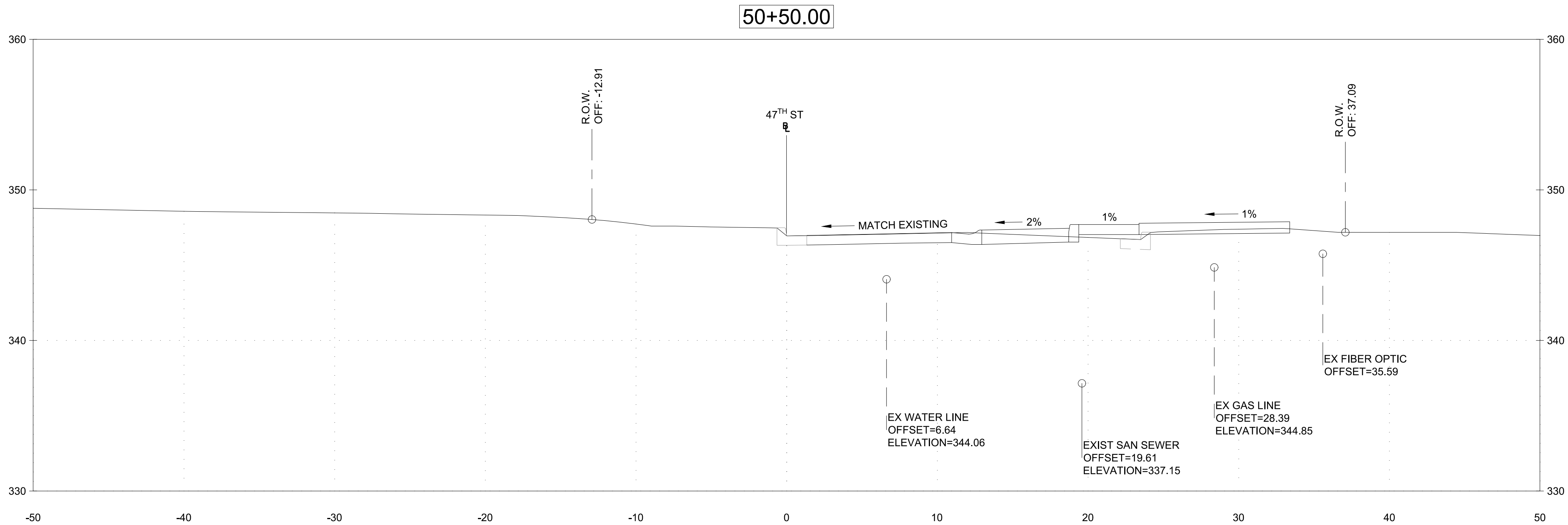
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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MR2020030 - BASE MAP # 209NW05 - TAX MAP # 122
CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
47TH STREET AND WILLOW LANE
CROSS SECTIONS - 3

SCALE _____ DATE APRIL 16, 2020

DWG. C8.2

SHEET NO. 21 OF 26



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GAITHERSBURG, MARYLAND

CONTACT:

PROJECT MANAGER
MATT JOHNSON, AICP
240-777-7237

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ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section

Date

APPROVED

Chief, Division of Transportation Engineering

Date

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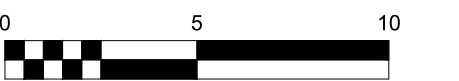
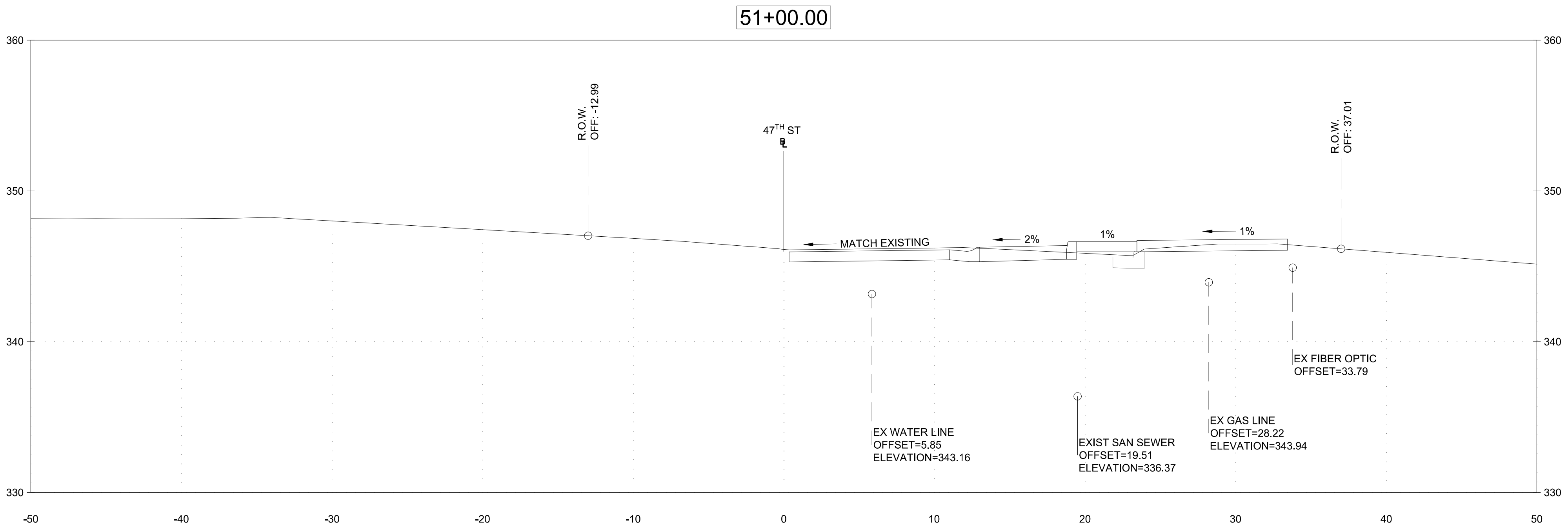
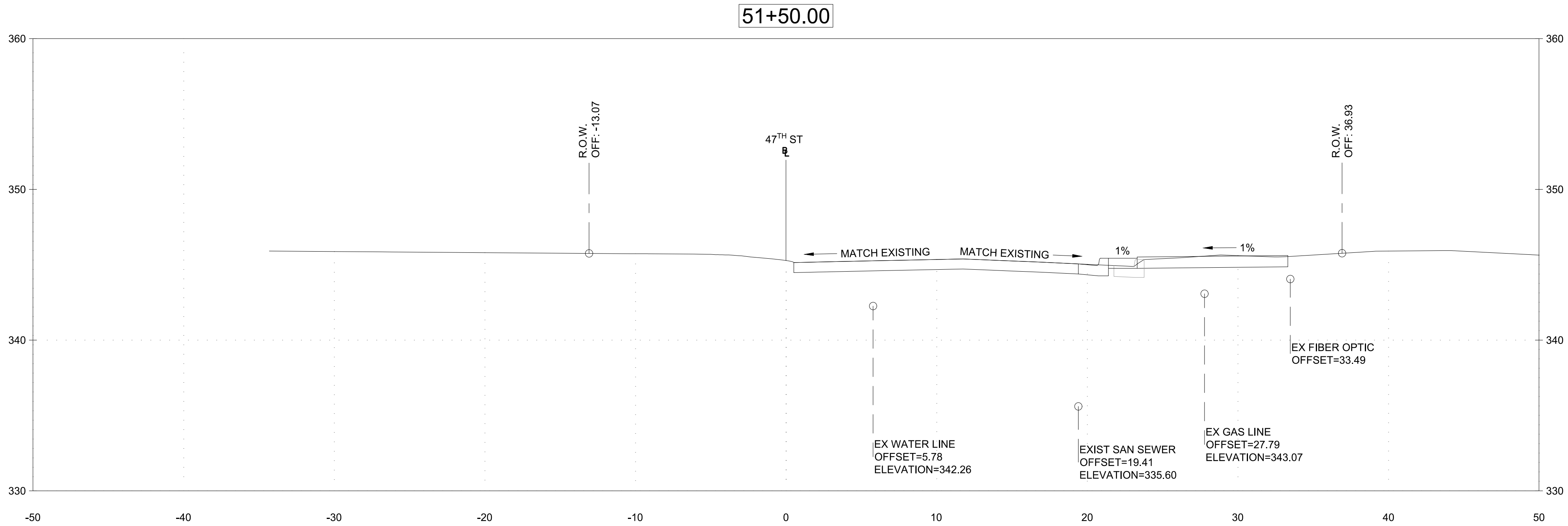
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MR2020030 - BASE MAP # 209NW05 - TAX MAP # 122

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
47TH STREET AND WILLOW LANE
CROSS SECTIONS - 4

SCALE _____ DATE APRIL 16, 2020

DWG. C8.3

SHEET NO. 22 OF 26



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DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section

Date

APPROVED

Chief, Division of Transportation Engineering

Date

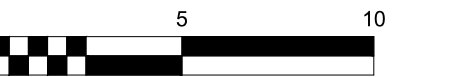
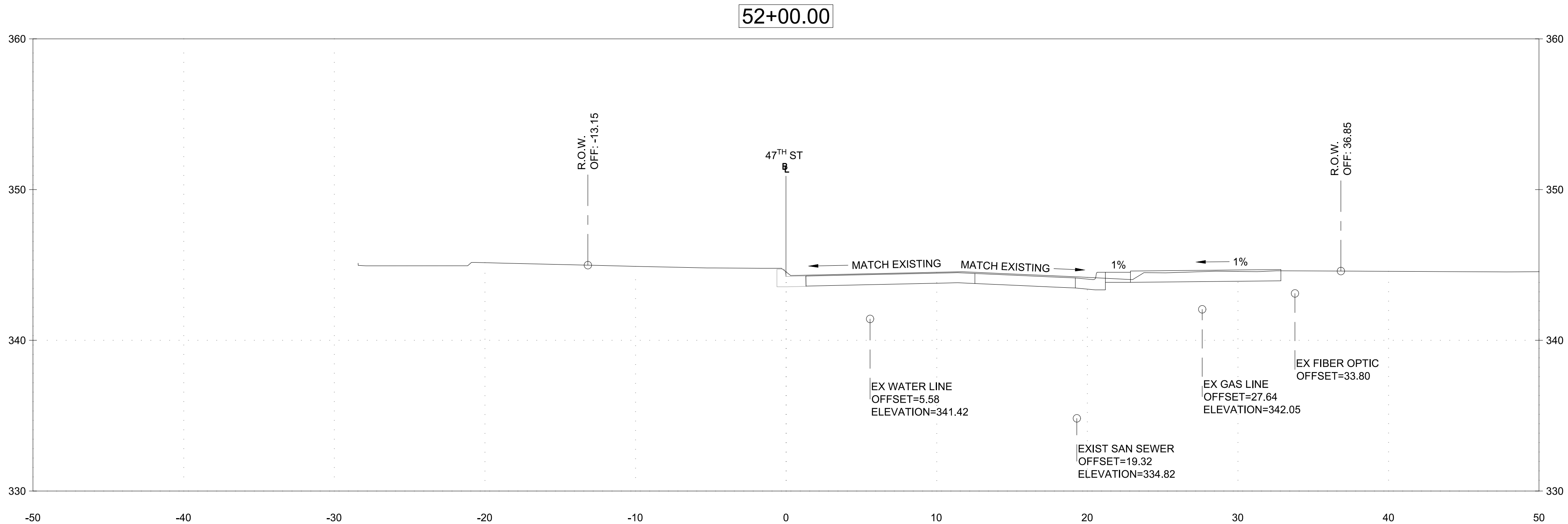
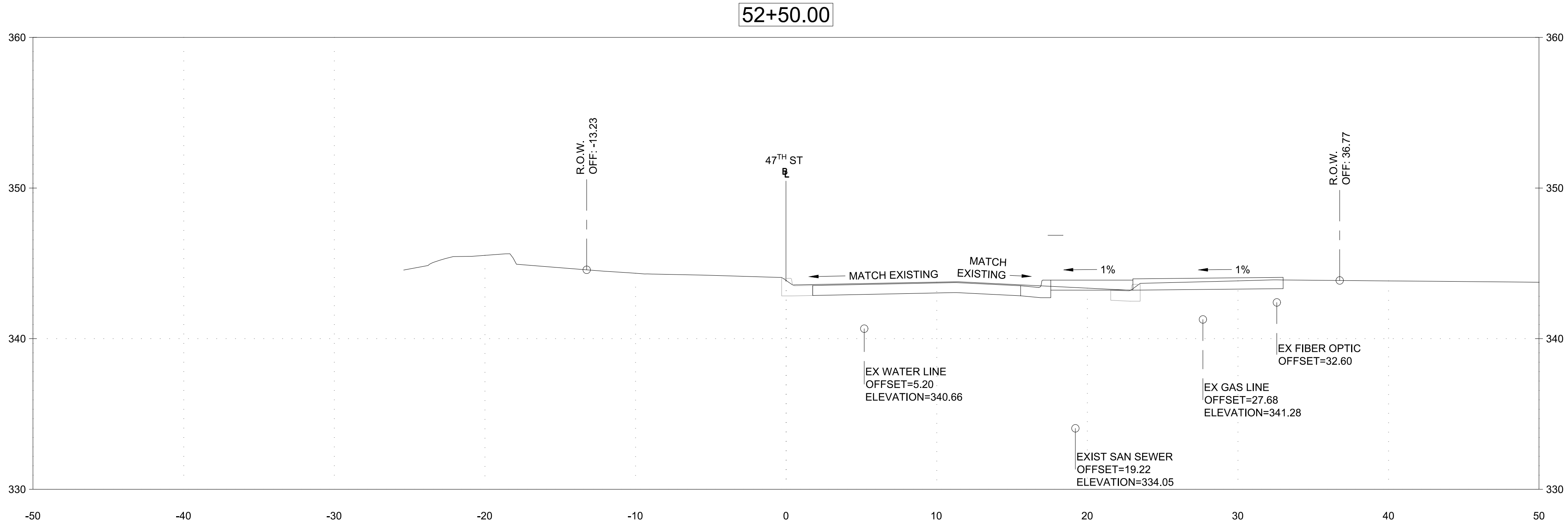
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MR2020030 - BASE MAP # 209NW05 - TAX MAP # 122
CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
47TH STREET AND WILLOW LANE
CROSS SECTIONS - 5

SCALE _____ DATE APRIL 16, 2020

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SHEET NO. 23 OF 26



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ROCKVILLE, MARYLAND

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Chief, Transportation Planning and Design Section
APPROVED

Chief, Division of Transportation Engineering

Date

Date

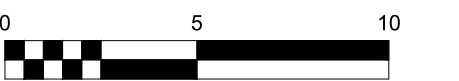
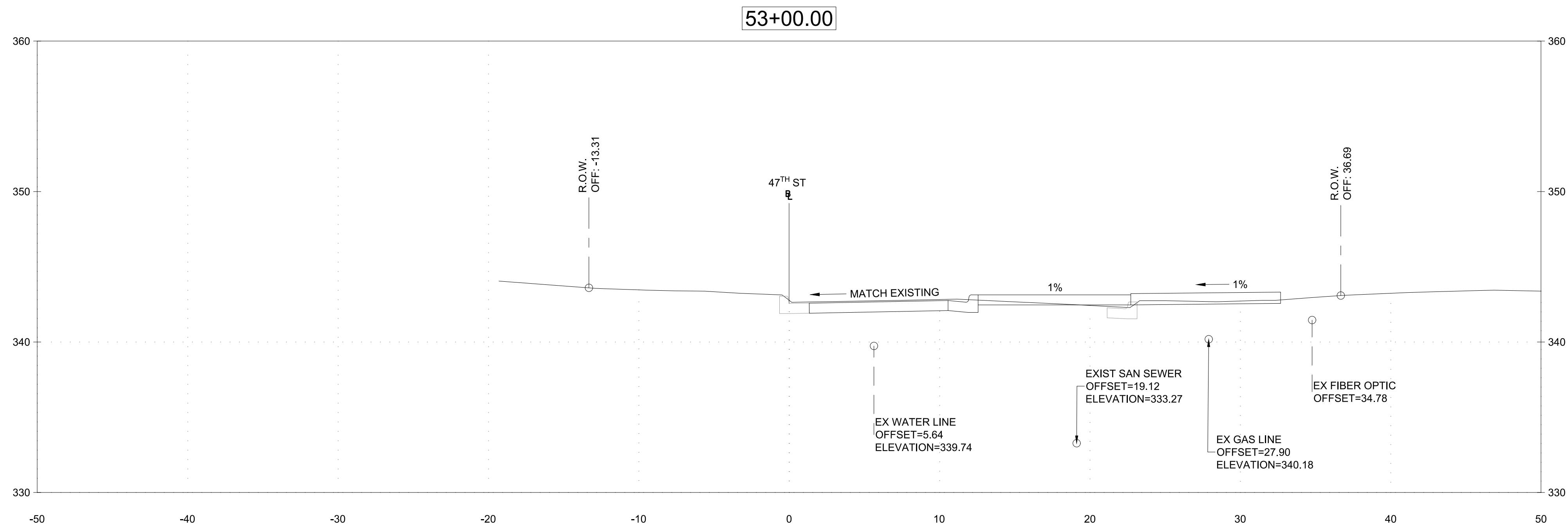
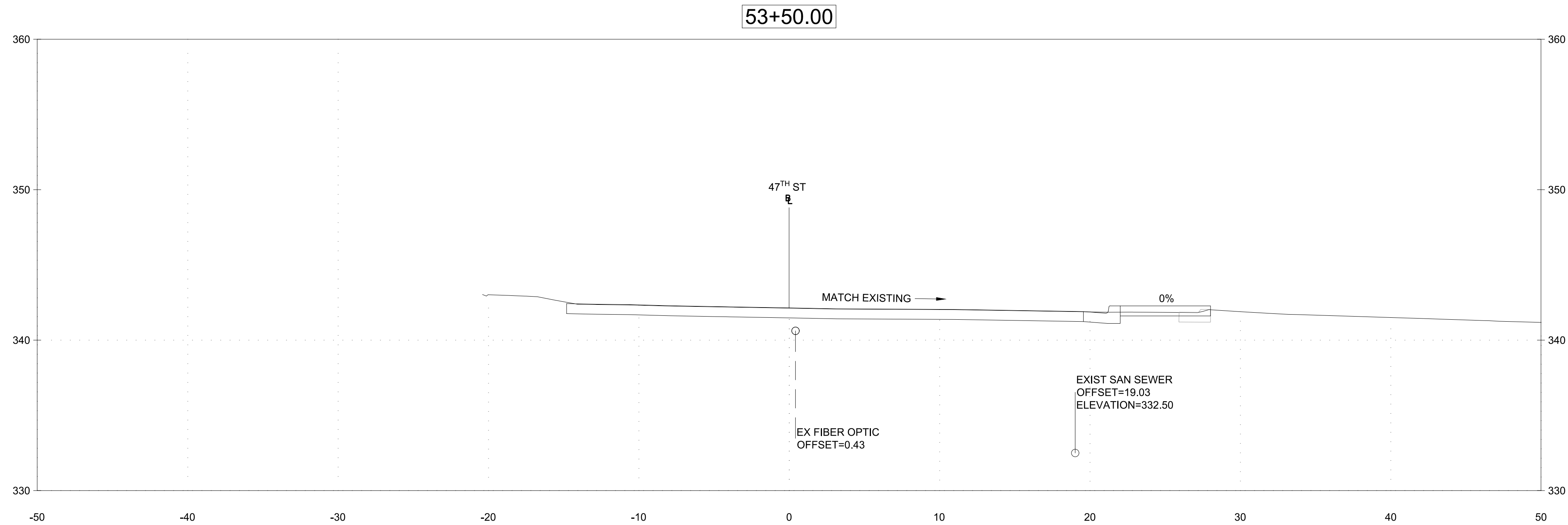
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DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
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CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
47TH STREET AND WILLOW LANE
CROSS SECTIONS - 6

SCALE _____ DATE APRIL 16, 2020

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SHEET NO. 24 OF 26



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CONTACT:

PROJECT MANAGER
MATT JOHNSON, AICP
240-777-7237

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section

Date

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Chief, Division of Transportation Engineering

Date

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MR2020030 - BASE MAP # 209NW05 - TAX MAP # 122

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
47TH STREET AND WILLOW LANE
CROSS SECTIONS - 7

SCALE _____ DATE APRIL 16, 2020

DWG. C8.6

SHEET NO. 25 OF 26

NOTES:

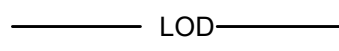
1. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS THE RUNOFF IS DIRECTED TO AN MCDPS-APPROVED SEDIMENT CONTROL DEVICE. PROVIDE SAME-DAY STABILIZATION FOR ALL DISTURBED AREAS NOT DRAINING TO AN APPROVED SEDIMENT CONTROL DEVICE.
2. NO SCE IS PROVIDED, THEREFORE THE CONTRACTOR SHALL DESIGNATE PIECES OF CONSTRUCTION EQUIPMENT ALLOWED WITHIN THE LOD UNTIL THE PROPOSED CONSTRUCTION IS COMPLETED AND SHALL LEAVE TREADS/TIRES CLEANED PRIOR TO LEAVING THE LOD. ANY SEDIMENT TRACKED ONTO THE ROADWAY SHALL BE PROMPTLY REMOVED.
3. EROSION AND SEDIMENT CONTROL DEVICES AND/OR MEASURES ARE TO REMAIN IN PLACE UNTIL THEIR REMOVAL IS APPROVED BY THE MCDPS INSPECTOR. STABILIZE THE DISTURBED AREAS.

SEQUENCE OF CONSTRUCTION:

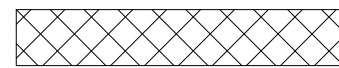
1. SET UP MOT AS INDICATED IN THE PLANS
2. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED
3. EROSION AND SEDIMENT CONTROL DEVICES AND/OR MEASURES ARE TO REMAIN IN PLACE UNTIL THEIR REMOVAL IS APPROVED BY THE MCDPS INSPECTOR. STABILIZE THE DISTURBED AREAS.

LEGEND

LIMIT OF DISTURBANCE



PAVEMENT REMOVAL



TREE REMOVAL



RJM ENGINEERING
6031 University Blvd., Ste. 290
Ellicott City, MD 21043

OWNER/ADDRESS:
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:

ENGINEERING
240-777-7220
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
APPROVED

Chief, Division of Transportation Engineering

DESIGNED BY KJS DRAWN BY BL CHECKED BY DZ

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MR2020030 - BASE MAP # 209NW05 - TAX MAP # 122

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2 - WILLOW LANE TO 47TH STREET

SC-01 ESC PLAN

SCALE 1" = 20' DATE APRIL 16, 2020

DWG.

SHEET NO. 26 OF 26

