

## Appendix A

### 30% Construction Documents



The Maryland-National Capital Park and Planning Commission

CAPITAL CRESCENT TRAIL

PEDESTRIAN CROSSING IMPROVEMENT PLANS

LITTLE FALLS PARKWAY: FROM ARLINGTON ROAD TO HILLANDALE ROAD

FINAL SCANNED:

PLAN SCANNED:

PARK CODE: NA

Wednesday, April 17, 2019 AT 12:38 PM

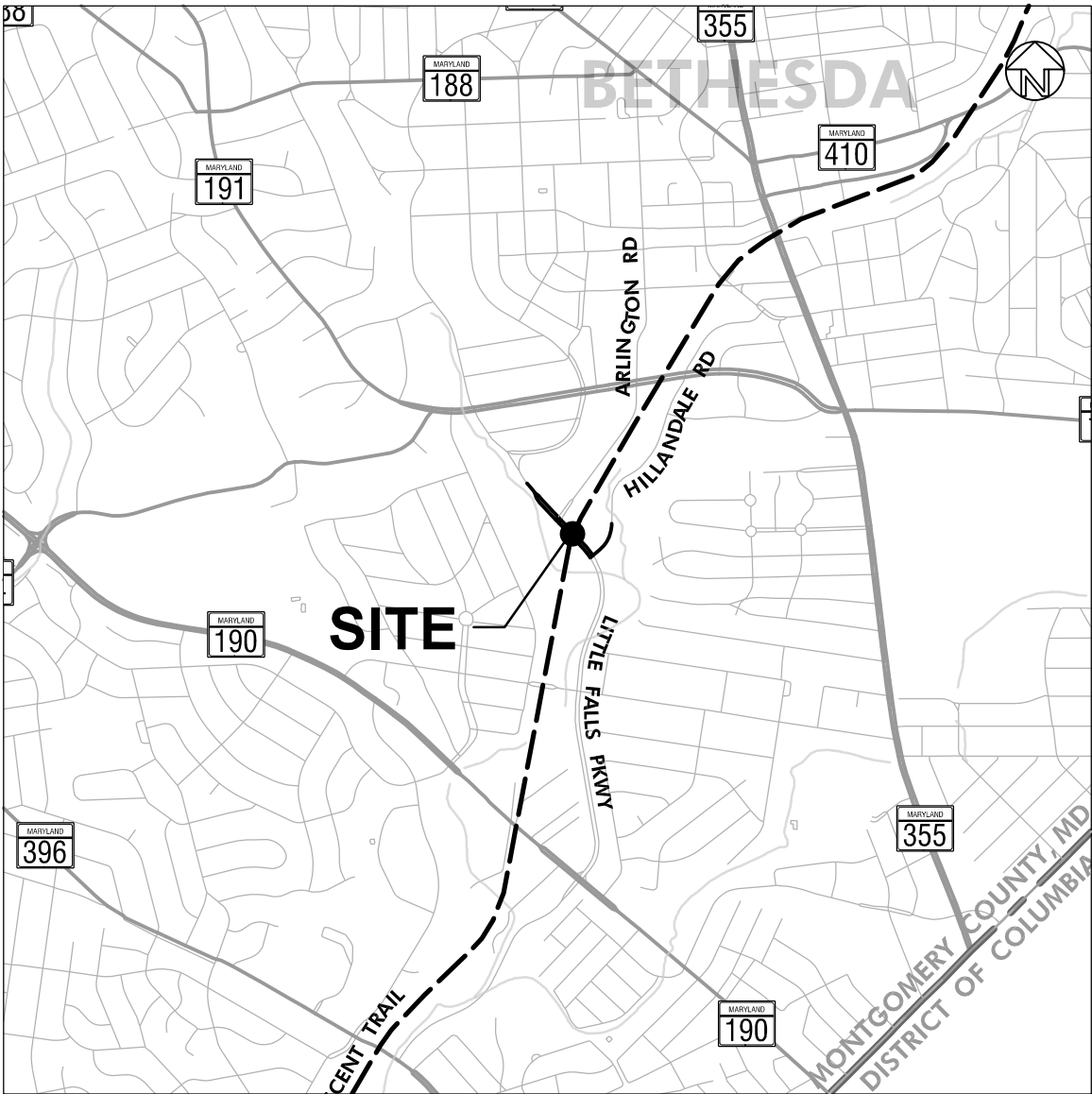
R:\2017\41 CapitalCrescent Trail\_MNCPPC\_\$148(DWG)30% Plans\p1-000%\_CCT.dgn PLOTTED BY: deller -

LEGEND:

	EXISTING CONTOUR
	EXISTING TREE LINE
	EXISTING TREES
	PROPERTY LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING STORM DRAINS
	EXISTING FLEX POSTS
	EXISTING GROUND MOUNTED SIGN
	EXISTING TRAFFIC SIG. MOUNTED SIGNS
	EXISTING SIGNAL POLE AND MAST ARM
	EXISTING SIGNAL HEAD
	EXISTING PEDESTRIAN SIGNAL
	EXISTING GROUND MOUNTED CONTROL CABINET
	EXISTING HAND BOX
	EXISTING METER SERVICE PEDESTAL
	EXISTING SIGNAL POLE MOUNTED LUMINAIRE
	EXISTING STORM DRAIN
	EXISTING ELECTRICAL (UNDERGROUND)
	EXISTING ELECTRICAL (OVERHEAD)
	EXISTING GUARDRAIL
	EXISTING CURB AND GUTTER
	EXISTING DETECTABLE WARNING SURFACE
	LIMITS OF DISTURBANCE
	PROPOSED TRAFFIC FLOW ARROW
	PROPOSED CUT LINE
	PROPOSED FILL LINE

GENERAL NOTES

1. Detail drawings and schedules describe construction at given areas. The General Contractor and all subcontractors shall utilize equivalent construction methods in all areas.
2. All notes shown on the drawings shall be assumed as typical unless otherwise shown or noted.
3. It shall be the duty of the contractor to verify all dimensions and conditions given on the drawings and to report to the M-NCPPC's Construction Manager any error or inconsistency with the actual circumstances in the field before commencing work.
4. The General Contractor shall be responsible for any and all items required to provide a site clear of obstructions (above and below grade) and rough grade to specified elevations.
5. To All Bidders: The General Contractor and all major subcontractors shall visit the site to familiarize themselves with existing conditions prior to submitting Bid.
6. Any work within the public right-of-way, shall be performed in accordance with the latest MCDPWT standards and specifications. This work includes, but not limited to: Repairing; Restoring; and obtaining final inspection approvals.
7. Prior to vegetative stabilization, all disturbed areas must be topsoiled per the Montgomery County "Standards and Specifications for Topsoil" (see DPS sheet 4 of 8) and M-NCPPC Technical Specifications. If on-site materials do not meet requirements of topsoil, coordinate with M-NCPPC regarding tilling-in of certified compost to on-site soils in order to meet specifications.
8. Any discrepancies, omissions, ambiguities, or conflicts in or among the construction documents or doubt about their meaning, shall be brought to the attention of the M-NCPPC Construction Manager for direction before proceeding with work. If ambiguities exist, the better quality and greater quantity of work shall be bid upon and installed by the Contractor unless otherwise indicated by the M-NCPPC's Construction Manager in writing.



VICINITY MAP  
SCALE : 1"= 2000'

INDEX OF DRAWINGS

DPS SHEET#	SHEET#	DESCRIPTION
	01	TITLE SHEET
	02-03	EXISTING CONDITIONS PLAN
	04-07	TYPICAL SECTIONS
	08-09	ROADWAY PLAN
	10	CONSTRUCTION DETAILS
	11-12	GRADING PLAN
	13	CROSS SECTIONS
	14-15	STORMWATER MANAGEMENT PLAN
	16	SWM BIO-RETENTION DETAILS
	17-18	TRAFFIC SIGNAL PLAN
	19-20	SIGNING AND MARKING PLAN
	21	SIGNING AND MARKING DETAILS
	22-23	LANDSCAPE PLAN
	24	LANDSCAPE DETAILS

30% SUBMITTAL  
APRIL 19, 2019

NOT FOR CONSTRUCTION

Sabra & Associates, Inc.

Designer's Name

7055 Samuel Morse Drive, #100

Address

Columbia, MD 21046

City/State/Zip

(443) 741-3500

Telephone Number

DESIGN

Landscape Architect

Date

Checked By:

Architect

Date

Checked By:

BW

04/2019

Checked By:

Engineer

Date

Checked By:

CK

04/2019

Checked By:

Drawn By

Date

Checked By:

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. \_\_\_\_\_

Expiration Date \_\_\_\_\_

PROFESSIONAL STAMP

The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks

9500 Brunett Avenue

Silver Spring, Maryland 20901

(301) 495-2535

REVIEW AND APPROVAL

Project Manager

Date

Construction Manager

Date

Park Manager

Date

ISSUED FOR PROCUREMENT ON \_\_\_\_\_

REVISIONS

Rev. No.

Date

Description

Cover Sheet

Capital Crescent Trail

SCALE: N/A

DWG. # 1 of 1

SHT. # 01 of 24



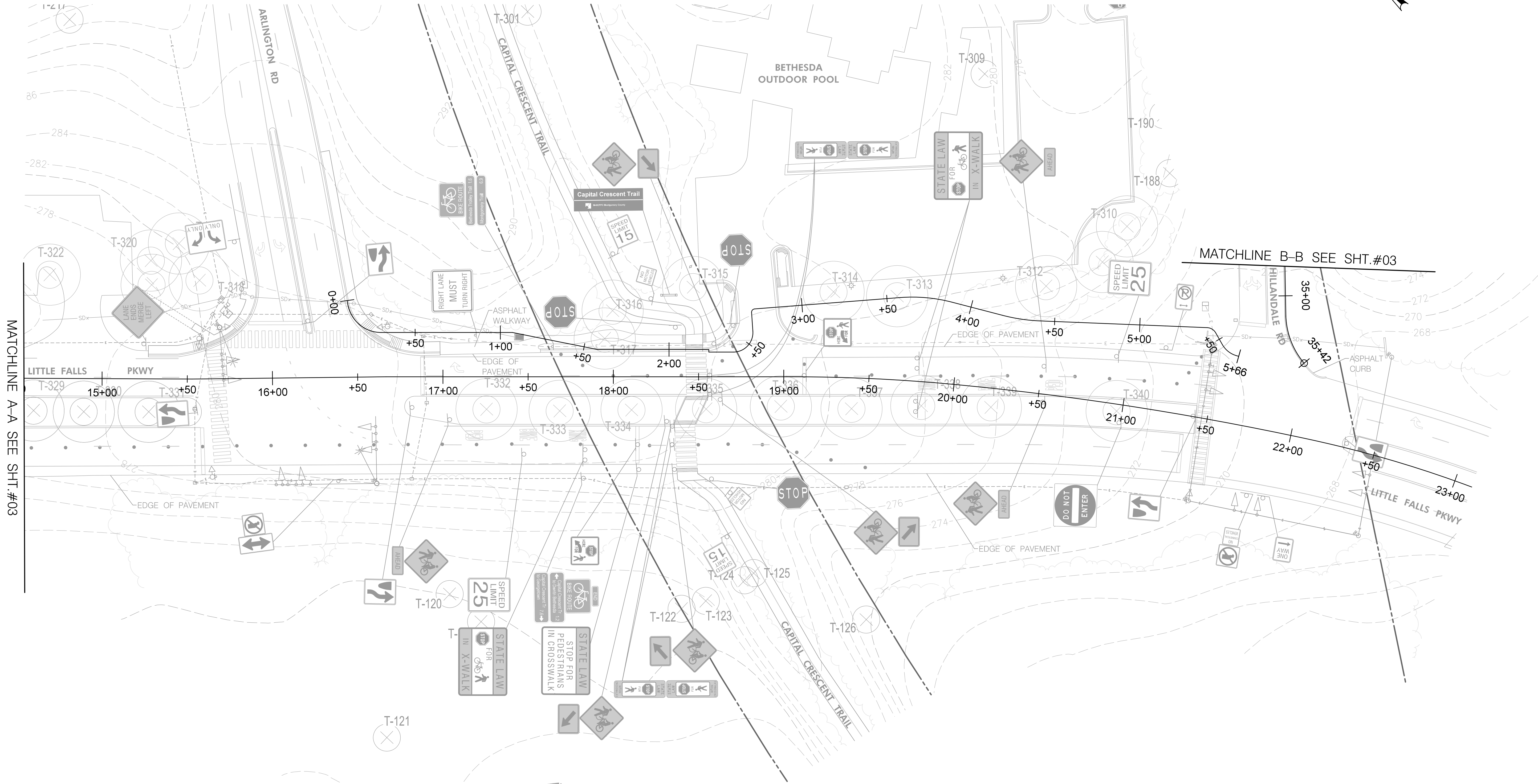
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PLAN SCANNED:

PARK CODE: NA

Wednesday, April 17, 2019 AT 12:43 PM

R:\2017\41 CapitalCrescent Trail\_MNCP\PCP\_30% Plans\p10-E001\_DCC.dgn PLOTTED BY: seller



Sabra & Associates, Inc.		DESIGN		<div>Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.</div> <div><div>PROFESSIONAL STAMP</div><div><div>The Maryland-National Capital Park and Planning Commission</div><div>Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535</div></div></div>	REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____		<div>Existing Conditions Plan</div> <div>Capital Crescent Trail</div> <div>SCALE: 1"=30'</div>	<div>DWG. # <u>1</u> of <u>2</u></div> <div>SHT. # <u>02</u> of <u>24</u></div>
Designer's Name						REVISIONS				
7055 Samuel Morse Drive, #100	Landscape Architect	Date	Checked By:			Rev. No.	Date	Description		
Address										
Columbia, MD 21046	Architect	Date	Checked By:							
City/State/Zip	BW	04/2019								
(443) 741-3500	Engineer	Date	Checked By:							
Telephone Number	CK	04/2019								
	Drawn By	Date	Checked By:	License No. _____						
				Expiration Date _____						



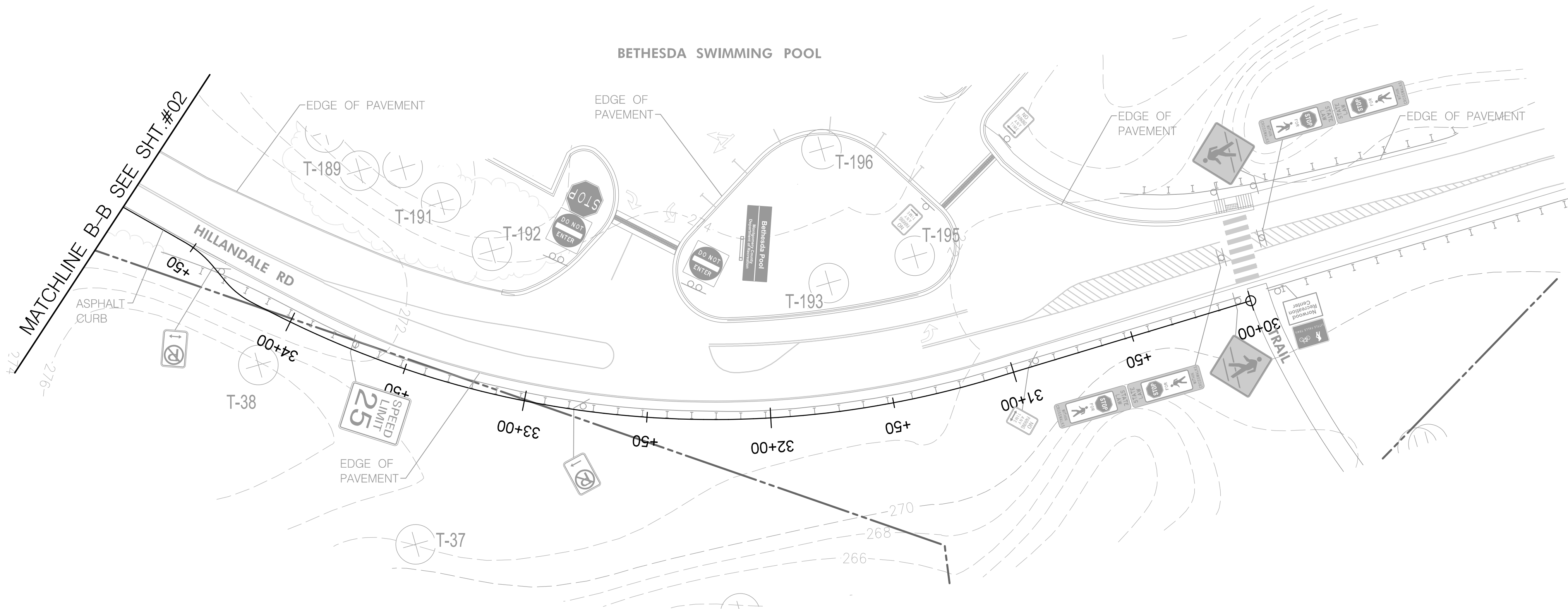
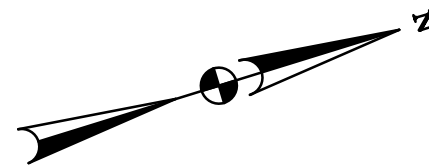
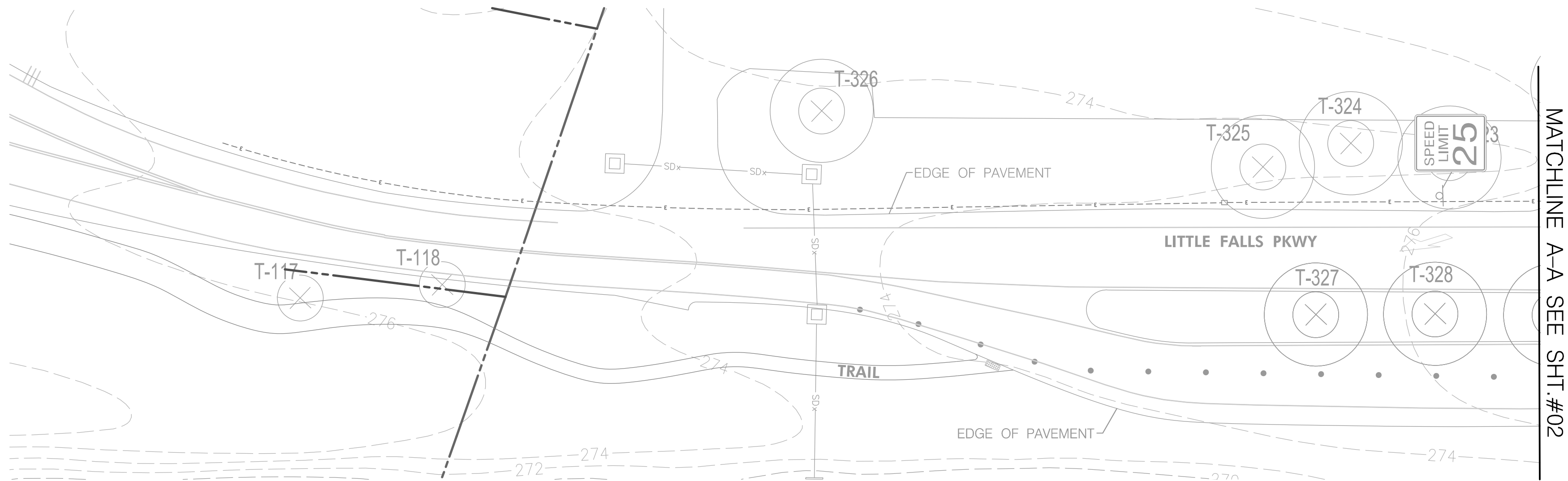
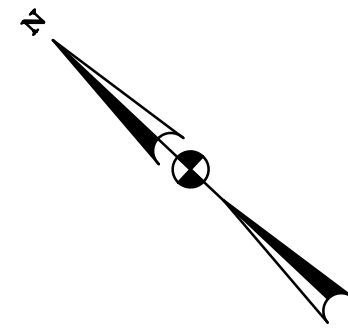
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PLAN SCANNED:

PARK CODE: NA

Wednesday, April 17, 2019 AT 01:29 PM

R:\2017\41 CapitalCrescent Trail\_MNCPFC\_30% Plans\p10-Ex02\_CCT.dgnPLOTTED BY: seller -



Sabra & Associates, Inc. Designer's Name 7055 Samuel Morse Drive, #100 Address Columbia, MD 21046 City/State/Zip (443) 741-3500 Telephone Number	DESIGN		
	Landscape Architect	Date	Checked By:
	Architect	Date	Checked By:
	BW	04/2019	
	Engineer	Date	Checked By:
	CK	04/2019	
	Drawn By	Date	Checked By:

**Professional Certification.** I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. \_\_\_\_\_

Expiration Date \_\_\_\_\_

PROFESSIONAL  
STAMP

**The Maryland-National Capital  
Park and Planning Commission**  
Montgomery County Department of Parks  
9500 Brunett Avenue  
Silver Spring, Maryland 20901  
(301) 495-2535

REVIEW AND APPROVAL	
Project Manager	Date
Construction Manager	Date
Park Manager	Date

ISSUED FOR PROCUREMENT ON _____		
REVISIONS		
Rev. No.	Date	Description

**Existing Conditions Plan  
Capital Crescent Trail**

SCALE: 1"=30'

DWG. # 2 of 2

SHT. # 03 of 24



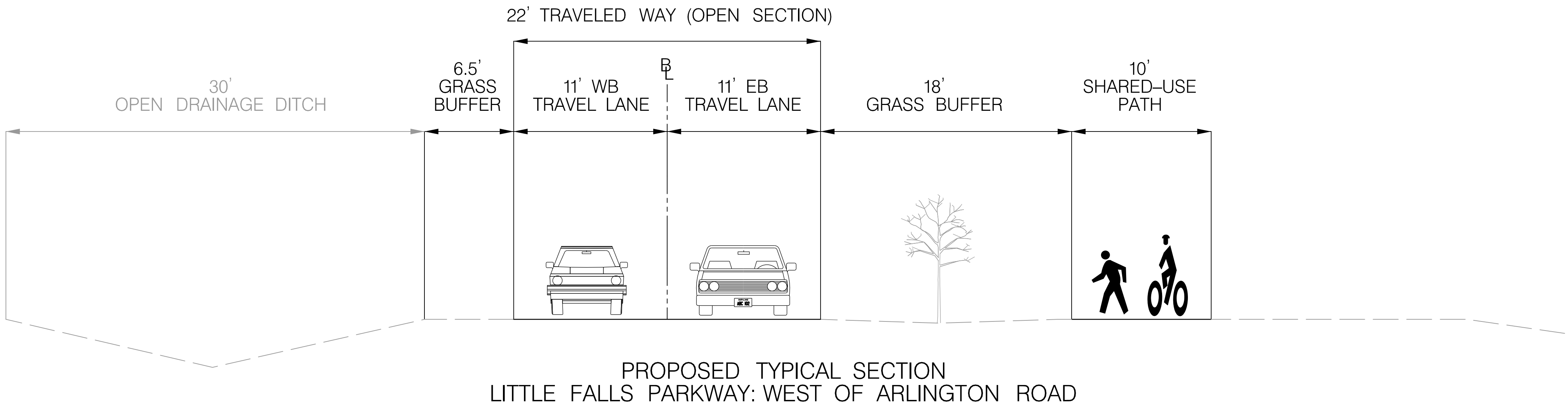
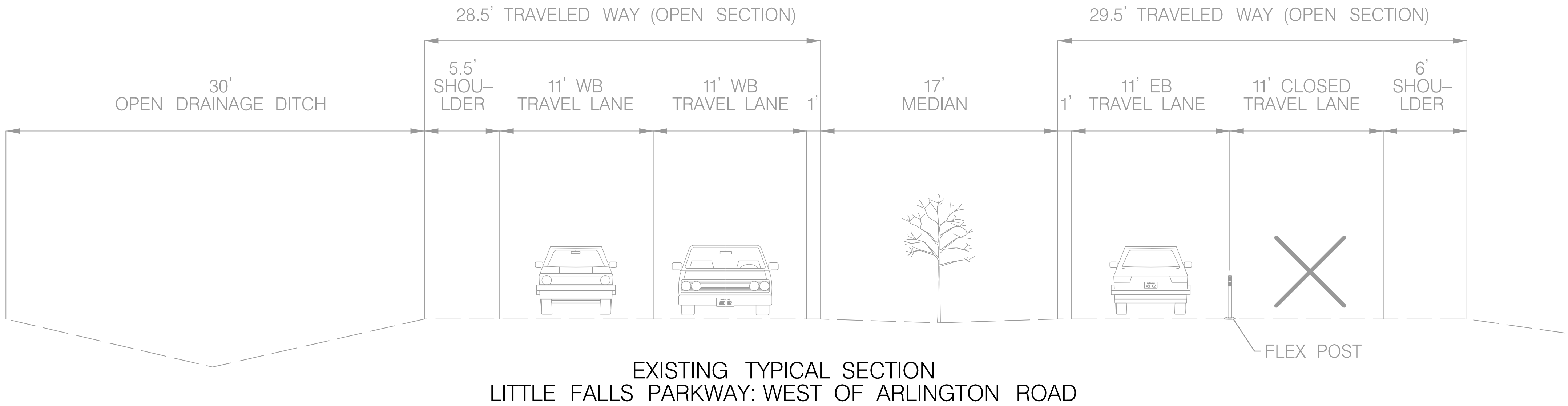
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PLAN SCANNED:

PARK CODE: NA

Thursday, April 04, 2019 AT 10:46 AM

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Designer's Name				
7055 Samuel Morse Drive, #100	Landscape Architect	Date	Checked By:	
Address	Architect	Date	Checked By:	
Columbia, MD 21046	BW	04/2019		
City/State/Zip	Engineer	Date	Checked By:	
(443) 741-3500	CK	04/2019		
Telephone Number	Drawn By	Date	Checked By:	

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.		
License No.		
Expiration Date		



The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks  
9500 Brunett Avenue  
Silver Spring, Maryland 20901  
(301) 495-2535

REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____		
		REVISIONS		
Rev. No.	Date	Description		
Project Manager	Date			
Construction Manager	Date			
Park Manager	Date			

## Typical Sections

### Capital Crescent Trail

SCALE: 1"=5'



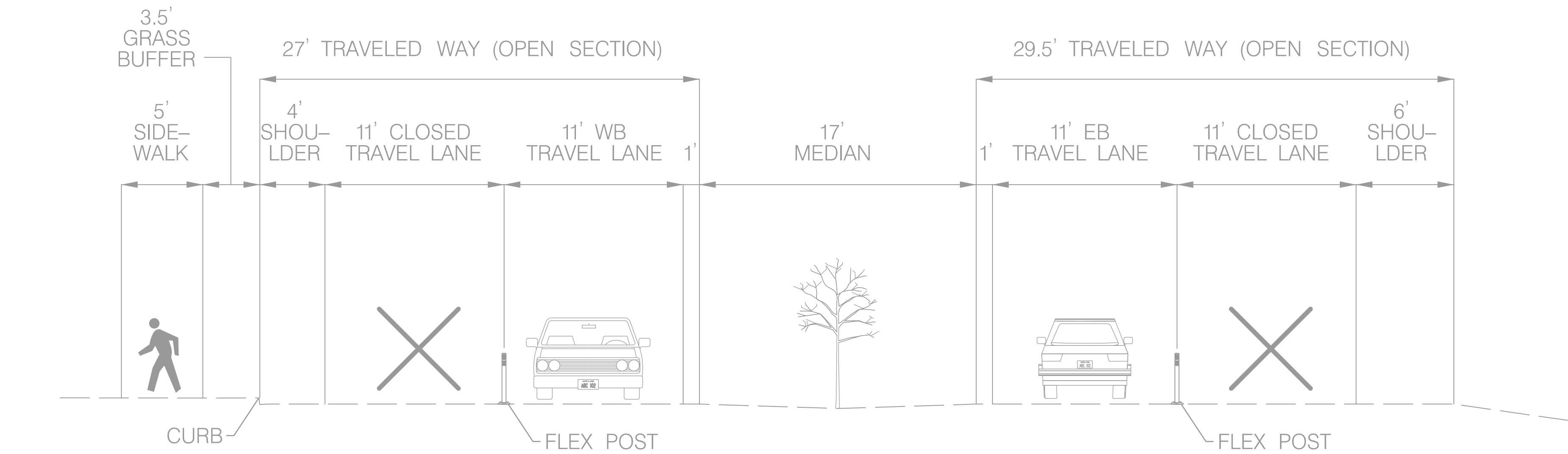
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PLAN SCANNED:

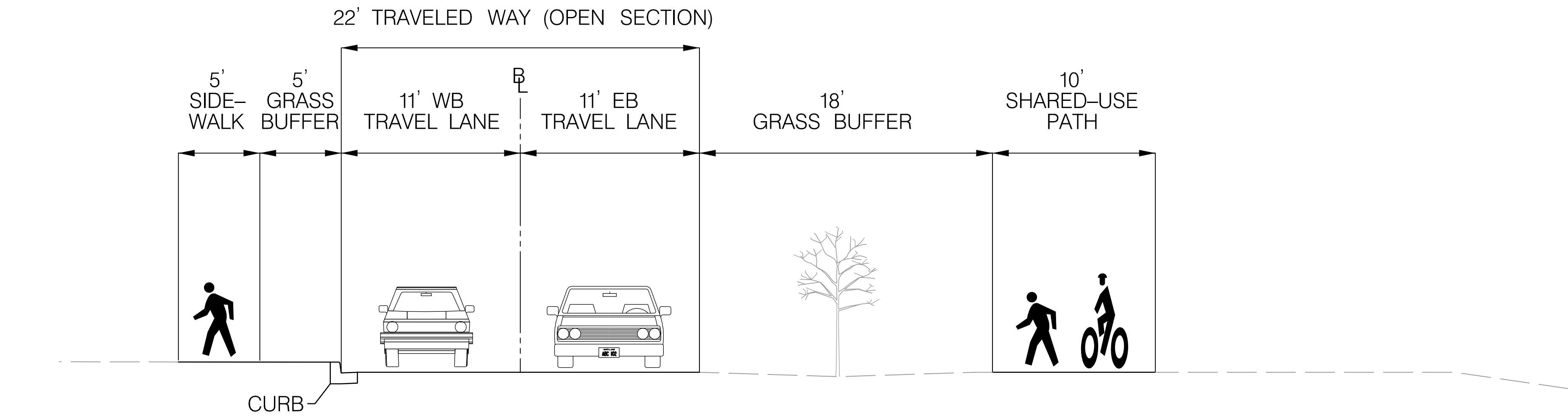
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Wednesday, April 17, 2019 AT 01:50 PM

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EXISTING TYPICAL SECTION  
LITTLE FALLS PARKWAY: BETWEEN ARLINGTON ROAD AND BETHESDA SWIMMING POOL ENTRANCE



PROPOSED TYPICAL SECTION  
LITTLE FALLS PARKWAY: BETWEEN ARLINGTON ROAD AND BETHESDA SWIMMING POOL ENTRANCE

<div>Sabra &amp; Associates, Inc. Designer's Name 7055 Samuel Morse Drive, #100 Address Columbia, MD 21046 City/State/Zip (443) 741-3500 Telephone Number</div>			<div>DESIGN Landscape Architect Date Checked By: Architect Date Checked By: Engineer Date Checked By: CK 04/2019 Drawn By Date Checked By:</div>			<div>Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. _____ Expiration Date _____</div>			<div>PROFESSIONAL STAMP</div>			<div>The Maryland-National Capital Park and Planning Commission Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535</div>			<div>REVIEW AND APPROVAL Project Manager Construction Manager Park Manager</div>			<div>ISSUED FOR PROCUREMENT ON _____ REVISIONS Rev. No. Date Description</div>			<div>Typical Sections Capital Crescent Trail SCALE: 1"=5'</div>			<div>DWG. # 2 of 4 SHT. # 05 of 24</div>		
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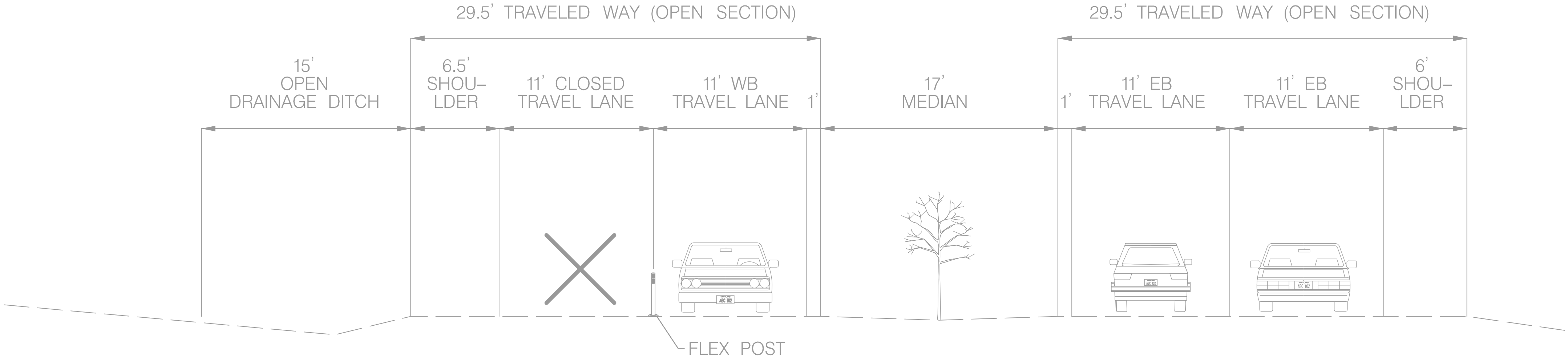
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PLAN SCANNED:

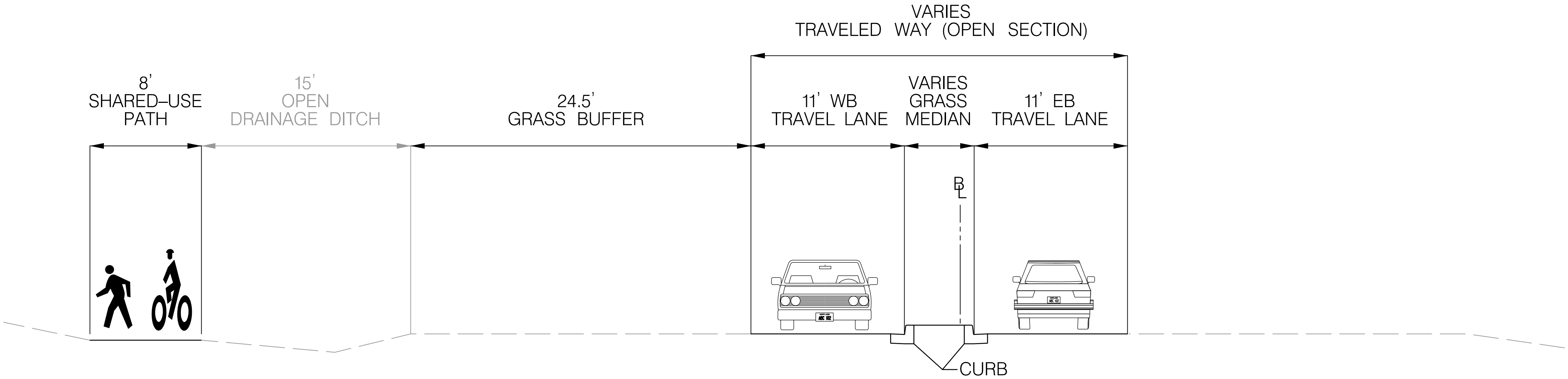
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Wednesday, April 17, 2019 AT 01:32 PM

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EXISTING TYPICAL SECTION  
LITTLE FALLS PARKWAY: BETWEEN BETHESDA SWIMMING POOL ENTRANCE AND HILLANDALE ROAD



PROPOSED TYPICAL SECTION  
LITTLE FALLS PARKWAY: BETWEEN BETHESDA SWIMMING POOL ENTRANCE AND HILLANDALE ROAD

<div>Sabra &amp; Associates, Inc.</div> <div>Designer's Name</div> <div>7055 Samuel Morse Drive, #100</div> <div>Address</div> <div>Columbia, MD 21046</div> <div>City/State/Zip</div> <div>(443) 741-3500</div> <div>Telephone Number</div>			<div>DESIGN</div> <table><tr><td>Landscape Architect</td><td>Date</td><td>Checked By:</td></tr><tr><td>Architect</td><td>Date</td><td>Checked By:</td></tr><tr><td>BW</td><td>04/2019</td><td></td></tr><tr><td>Engineer</td><td>Date</td><td>Checked By:</td></tr><tr><td>CK</td><td>04/2019</td><td></td></tr><tr><td>Drawn By</td><td>Date</td><td>Checked By:</td></tr></table>			Landscape Architect	Date	Checked By:	Architect	Date	Checked By:	BW	04/2019		Engineer	Date	Checked By:	CK	04/2019		Drawn By	Date	Checked By:	<div>Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.</div> <div>License No. _____</div> <div>Expiration Date _____</div> <div>PROFESSIONAL STAMP</div> <div><div>The Maryland-National Capital Park and Planning Commission</div><div>Montgomery County Department of Parks</div><div>9500 Brunett Avenue</div><div>Silver Spring, Maryland 20901</div><div>(301) 495-2535</div></div>			<div>REVIEW AND APPROVAL</div> <table><tr><td>Project Manager</td><td>Date</td></tr><tr><td>Construction Manager</td><td>Date</td></tr><tr><td>Park Manager</td><td>Date</td></tr></table>			Project Manager	Date	Construction Manager	Date	Park Manager	Date	<div>ISSUED FOR PROCUREMENT ON _____</div> <div>REVISIONS</div> <table><tr><th>Rev. No.</th><th>Date</th><th>Description</th></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table>			Rev. No.	Date	Description													<div>Typical Sections</div> <div>Capital Crescent Trail</div> <div>SCALE: 1"=5'</div>			<div>DWG. # <u>3</u> of <u>4</u></div> <div>SHT. # <u>06</u> of <u>24</u></div>		
Landscape Architect	Date	Checked By:																																																									
Architect	Date	Checked By:																																																									
BW	04/2019																																																										
Engineer	Date	Checked By:																																																									
CK	04/2019																																																										
Drawn By	Date	Checked By:																																																									
Project Manager	Date																																																										
Construction Manager	Date																																																										
Park Manager	Date																																																										
Rev. No.	Date	Description																																																									



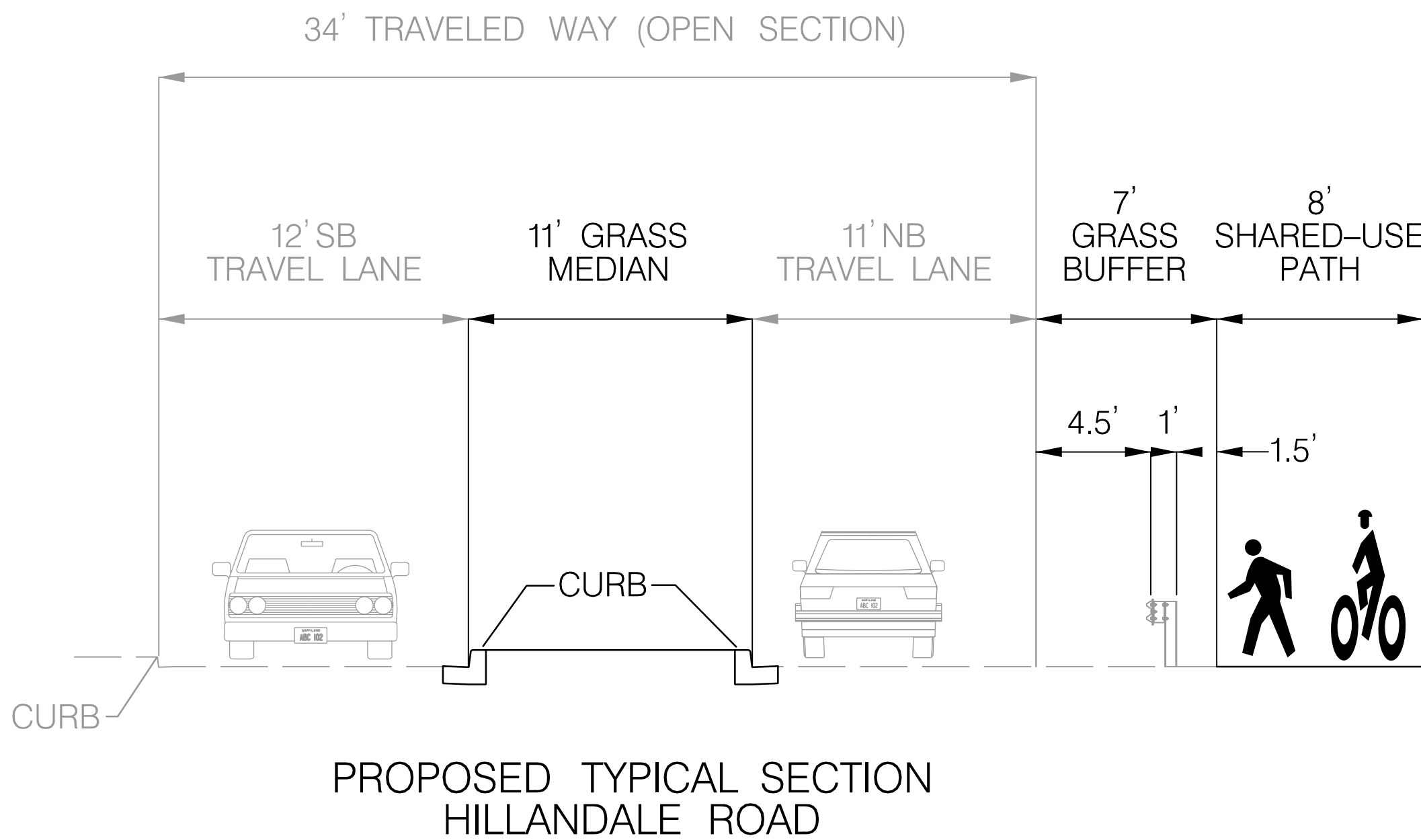
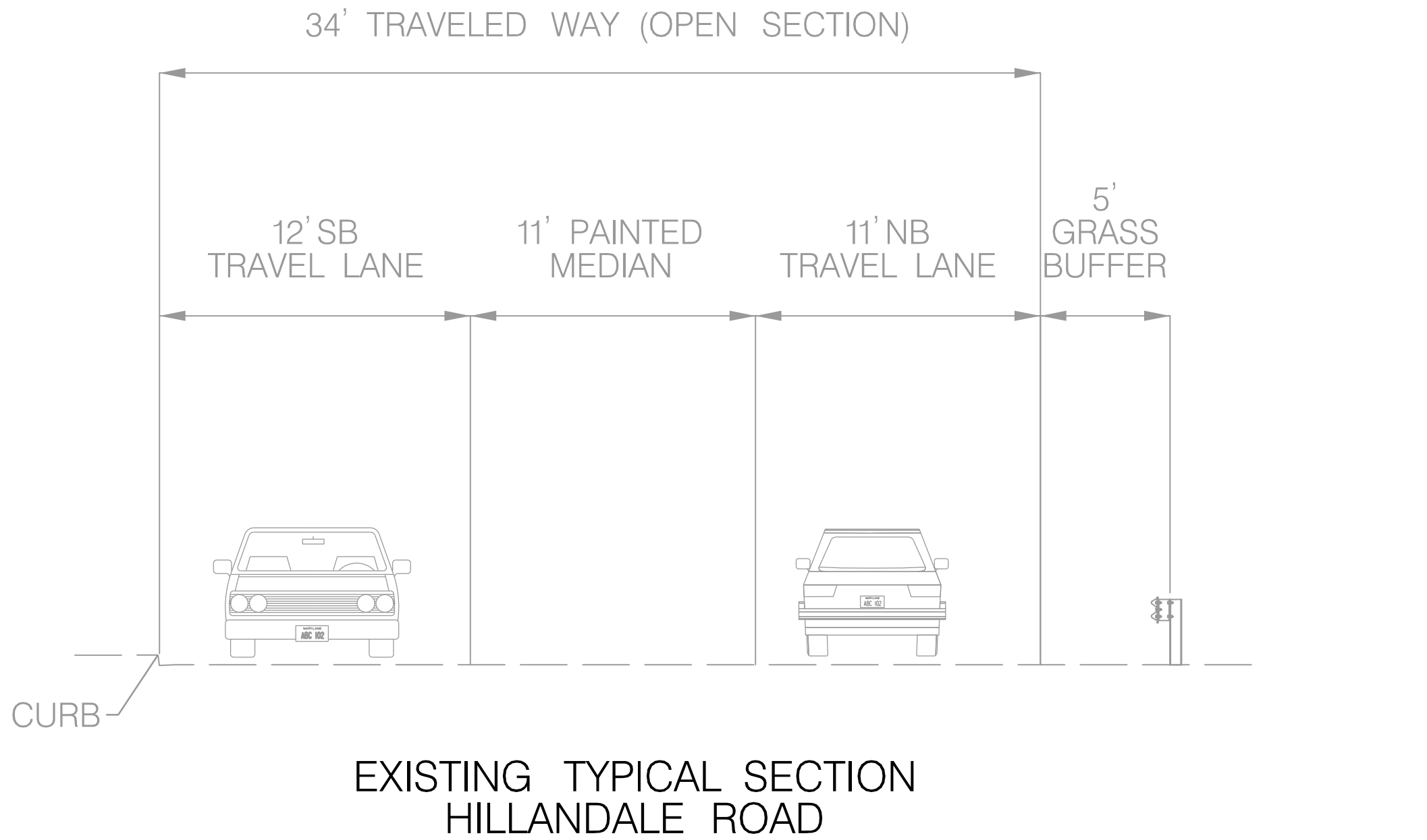
FINAL SCANNED:

PLAN SCANNED:

PARK CODE: NA

Wednesday, April 17, 2019 AT 01:53 PM

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Sabra & Associates, Inc.	DESIGN		
Designer's Name			
7055 Samuel Morse Drive, #100	Landscape Architect	Date	Checked By:
Address			
Columbia, MD 21046	Architect	Date	Checked By:
City/State/Zip	BW	04/2019	
(443) 741-3500	Engineer	Date	Checked By:
Telephone Number	CK	04/2019	
	Drawn By	Date	Checked By:

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.		
License No. _____		
Expiration Date _____		



The Maryland-National Capital  
Park and Planning Commission  
Montgomery County Department of Parks  
9500 Brunett Avenue  
Silver Spring, Maryland 20901  
(301) 495-2535

REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____	
		REVISIONS	
Project Manager	Date	Rev. No.	Date
Construction Manager	Date		
Park Manager	Date		

REVISIONS	
Rev. No.	Date



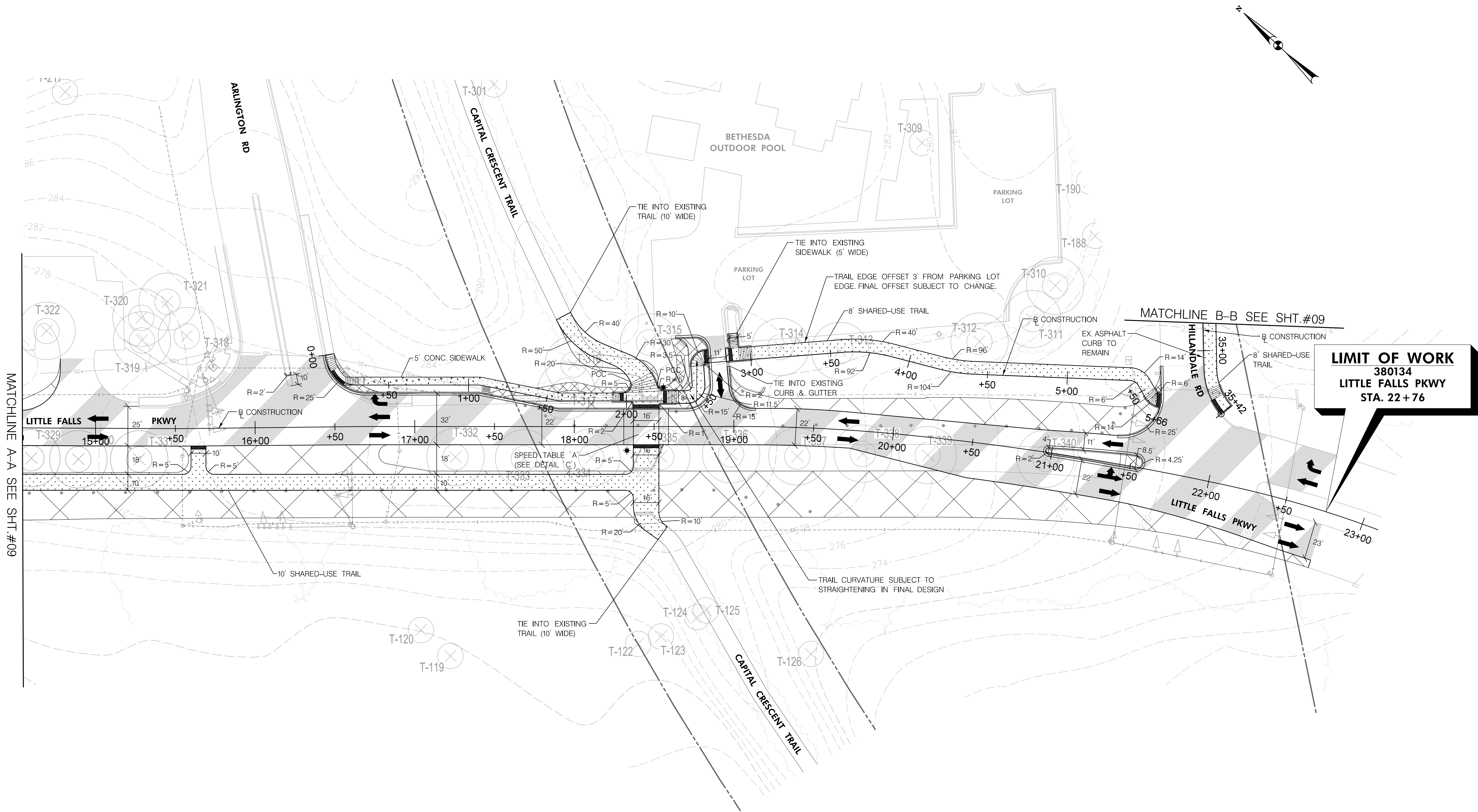
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PLAN SCANNED:

PARK CODE: NA

Wednesday, April 17, 2019 AT 01:52 PM

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PROPOSED LEGEND

- SHARED USE PATH
- 5 INCH CONCRETE SIDEWALK
- GRIND AND RESURFACE EXISTING PAVEMENT
- EXISTING SIDEWALK TO BE REMOVED
- EXISTING PAVEMENT TO BE REMOVED
- PROPOSED CURB AND GUTTER

Sabra & Associates, Inc. Designer's Name 7055 Samuel Morse Drive, #100 Address Columbia, MD 21046 City/State/Zip (443) 741-3500 Telephone Number	DESIGN			<b>Professional Certification.</b> I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  License No. _____ Expiration Date _____
	Landscape Architect	Date	Checked By:	
	Architect	Date	Checked By:	
	BW	04/2019		
	Engineer	Date	Checked By:	
	CK	04/2019		
	Drawn By	Date	Checked By:	



The Maryland-National Capital  
Park and Planning Commission  
Montgomery County Department of Parks  
9500 Brunett Avenue  
Silver Spring, Maryland 20901  
(301) 495-2535

REVIEW AND APPROVAL	
Project Manager	Date
Construction Manager	Date
Park Manager	Date

ISSUED FOR PROCUREMENT ON _____		
REVISIONS		
Rev. No.	Date	Description

Roadway Plan  
Capital Crescent Trail

SCALE: 1"=30'

DWG. # 1 of 3

SHT. # 08 of 24



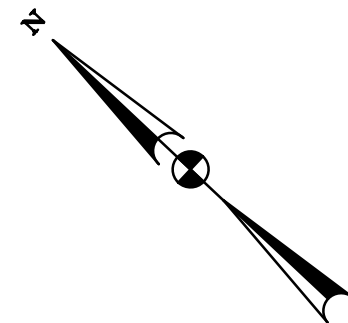
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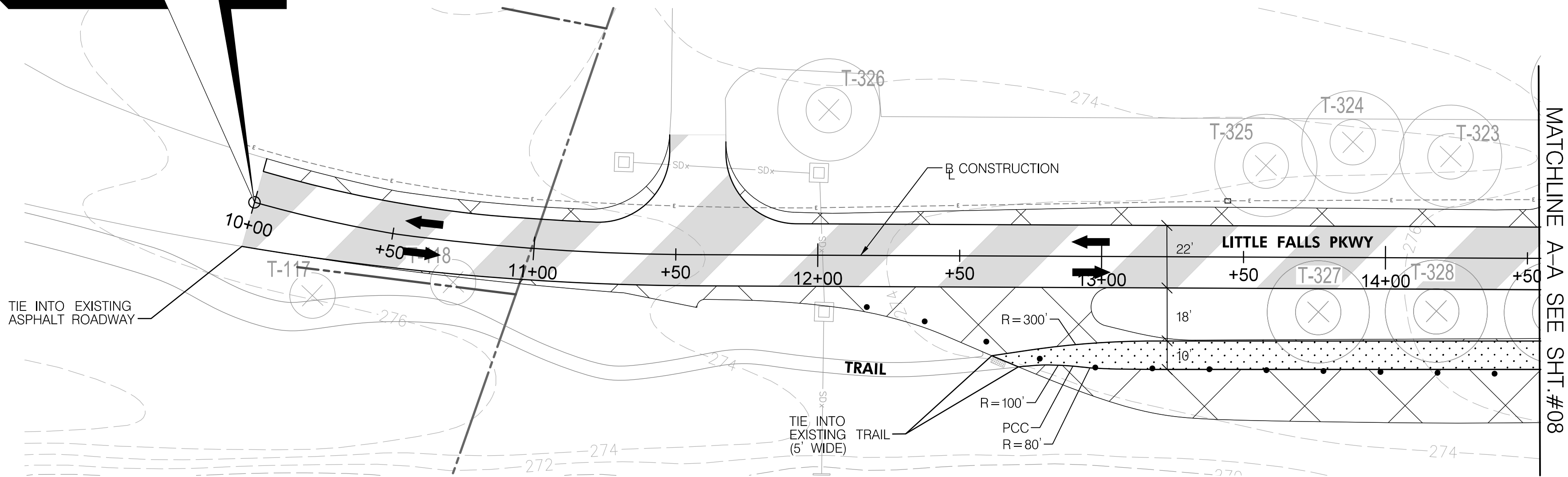
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Wednesday, April 17, 2019 AT 01:54 PM

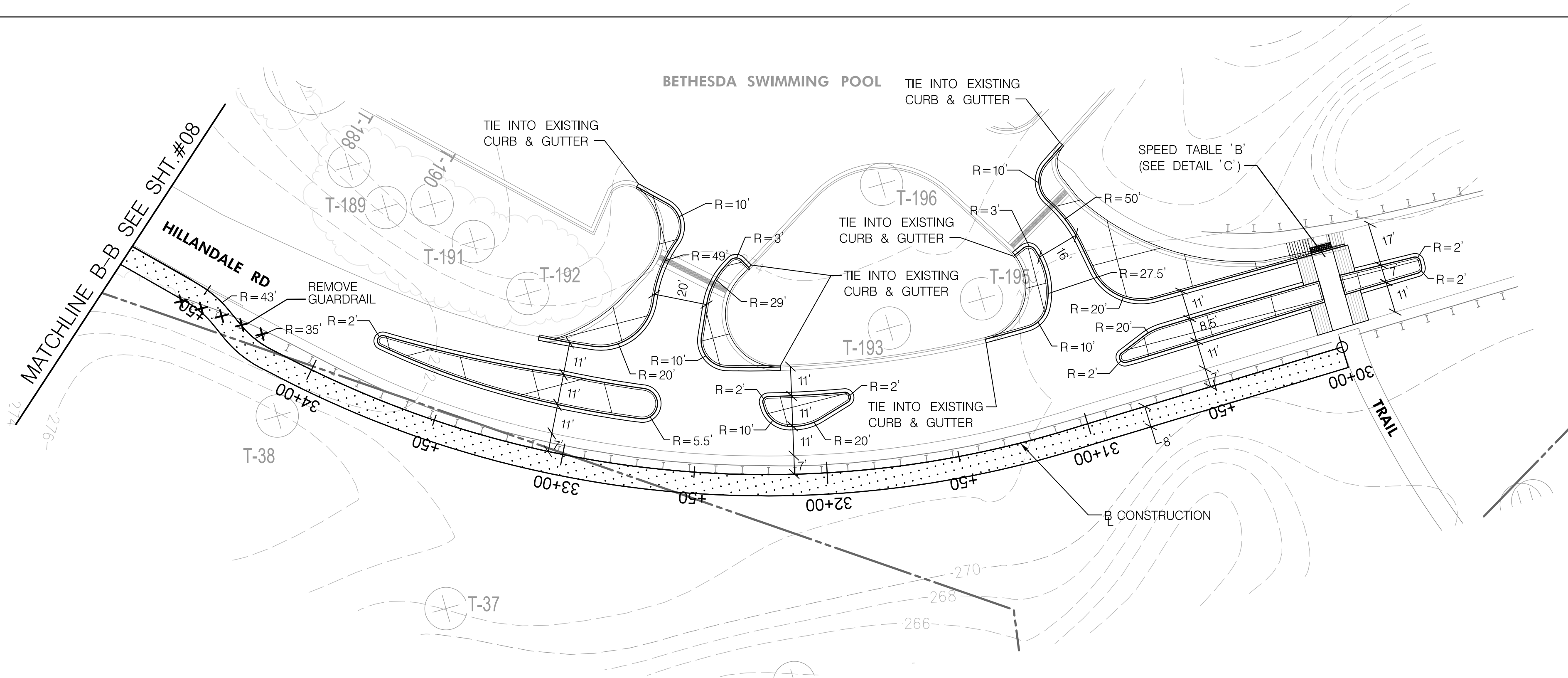
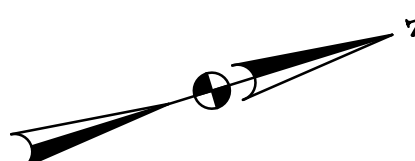
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**LIMIT OF WORK**  
380134  
LITTLE FALLS PKWY  
STA. 10 + 00



MATCHLINE A-A SEE SHT.#08



MATCHLINE B-B SEE SHT.#08

PROPOSED LEGEND

- SHARED USE PATH
- 5 INCH CONCRETE SIDEWALK
- GRIND AND RESURFACE EXISTING PAVEMENT
- EXISTING SIDEWALK TO BE REMOVED
- EXISTING PAVEMENT TO ME REMOVED
- PROPOSED CURB AND GUTTER

Sabra & Associates, Inc.	DESIGN			<b>Professional Certification.</b> I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  License No. _____ Expiration Date _____
Designer's Name	Landscape Architect	Date	Checked By:	
7055 Samuel Morse Drive, #100				
Address	Architect	Date	Checked By:	
Columbia, MD 21046	BW	04/2019		
City/State/Zip	Engineer	Date	Checked By:	
(443) 741-3500	CK	04/2019		
Telephone Number	Drawn By	Date	Checked By:	



**The Maryland-National Capital Park and Planning Commission**  
Montgomery County Department of Parks  
9500 Brunett Avenue  
Silver Spring, Maryland 20901  
(301) 495-2535

REVIEW AND APPROVAL	
Project Manager	Date
Construction Manager	Date
Park Manager	Date

ISSUED FOR PROCUREMENT ON _____		
REVISIONS		
Rev. No.	Date	Description

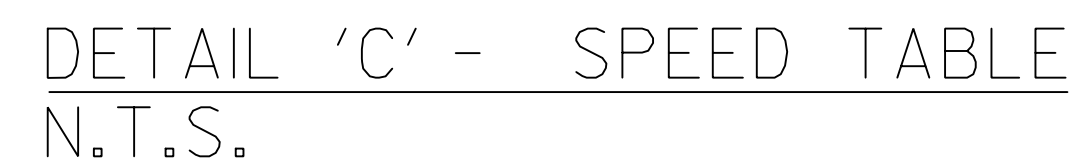
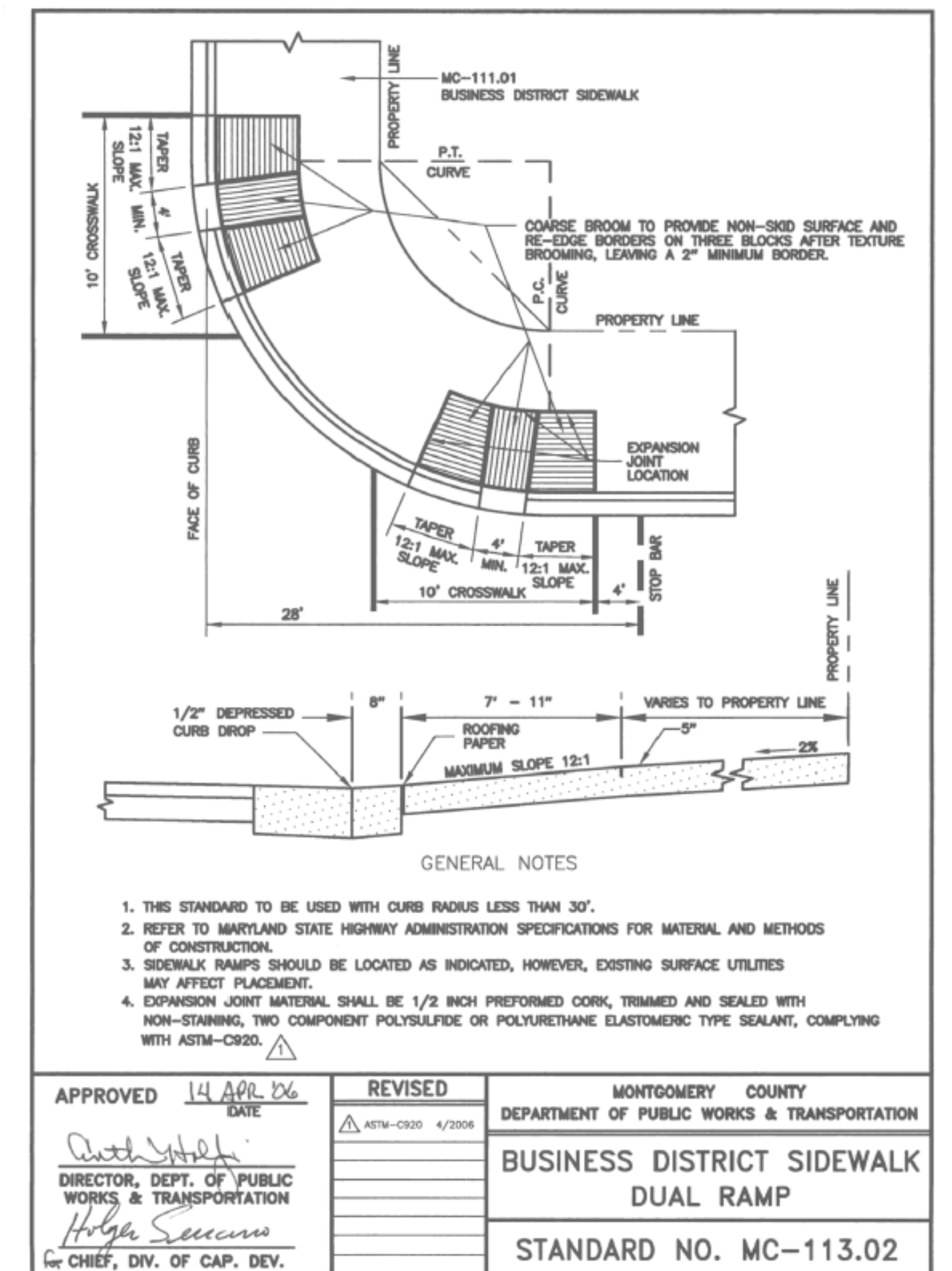
**Roadway Plan**  
**Capital Crescent Trail**



SCALE: 1"=30'

DWG. # 2 of 3

SHT. # 09 of 24





Sabra & Associates, Inc.		DESIGN		<b>Professional Certification.</b> I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.			The Maryland-National Capital Park and Planning Commission Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535	REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____		<h1>Construction Details</h1> <h2>Capital Crescent Trail</h2>	DWG. # <u>3</u> of <u>3</u>
Designer's Name								REVISIONS					
7055 Samuel Morse Drive, #100		Landscape Architect	Date	Checked By:	License No. _____	Expiration Date _____	Project Manager	Date	Rev. No.	Date	Description		
Address		Architect	Date	Checked By:			Construction Manager	Date					
Columbia, MD 21046		BW	04/2019				Park Manager	Date					
City/State/Zip		Engineer	Date	Checked By:									
(443) 741-3500		CK	04/2019										
Telephone Number		Drawn By	Date	Checked By:									



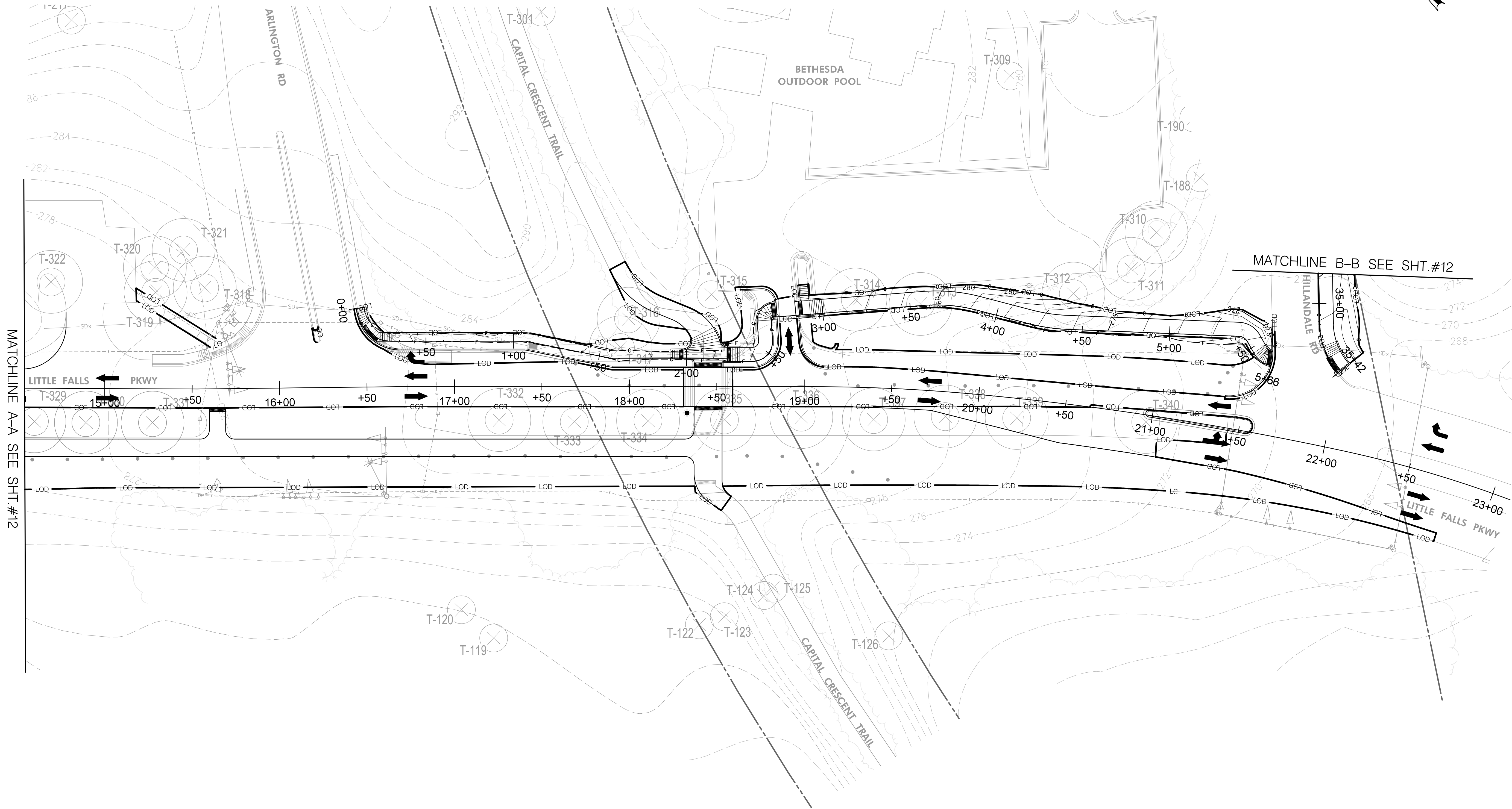
FINAL SCANNED:

PLAN SCANNED:

PARK CODE: NA

Wednesday, April 17, 2019 AT 09:04 AM

R:\2017\41 CapitalCrescent Trail\_MNCP\PC\_\$148\DWG\30% Plans\035-FRM01\_CCT.dgn PLOTTED BY: seller -



Sabra & Associates, Inc.		DESIGN		<b>Professional Certification.</b> I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. <div>PROFESSIONAL STAMP</div>		 <div><b>The Maryland-National Capital Park and Planning Commission</b> Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535</div>		REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____		<h1>Grading Plan</h1> <h2>Capital Crescent Trail</h2> <p>SCALE: 1"=30'</p>		DWG. # <u>1</u> of <u>2</u>	
Designer's Name 7055 Samuel Morse Drive, #100		Landscape Architect	Date					Checked By:	Project Manager		Date				
Address Columbia, MD 21046		Architect	Date	Checked By:	Construction Manager		Date	Rev. No.		Date	Description				
City/State/Zip (443) 741-3500		Engineer	Date	Checked By:	Park Manager		Date								
Telephone Number		CK	04/2019	Checked By:											
		Drawn By	Date	Checked By:											



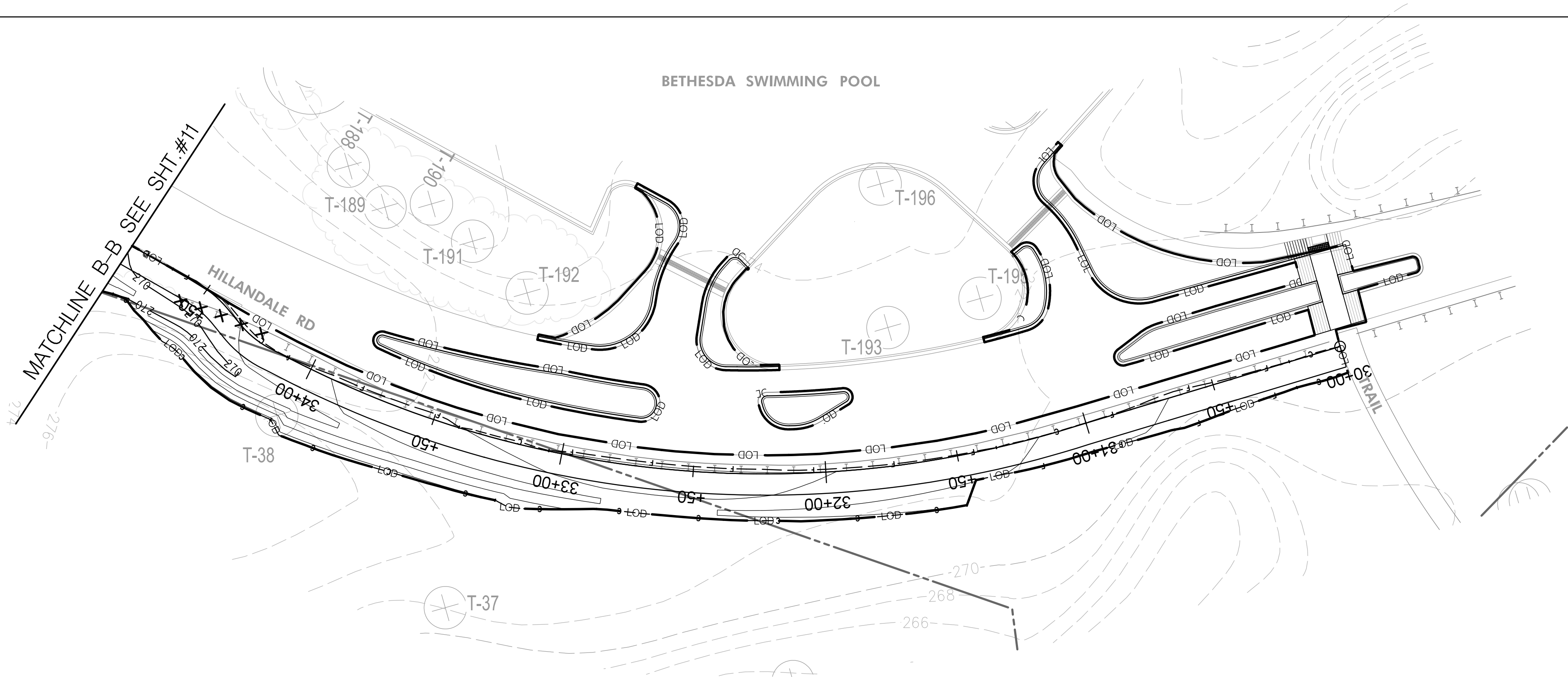
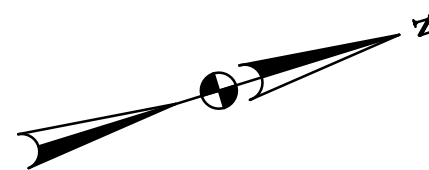
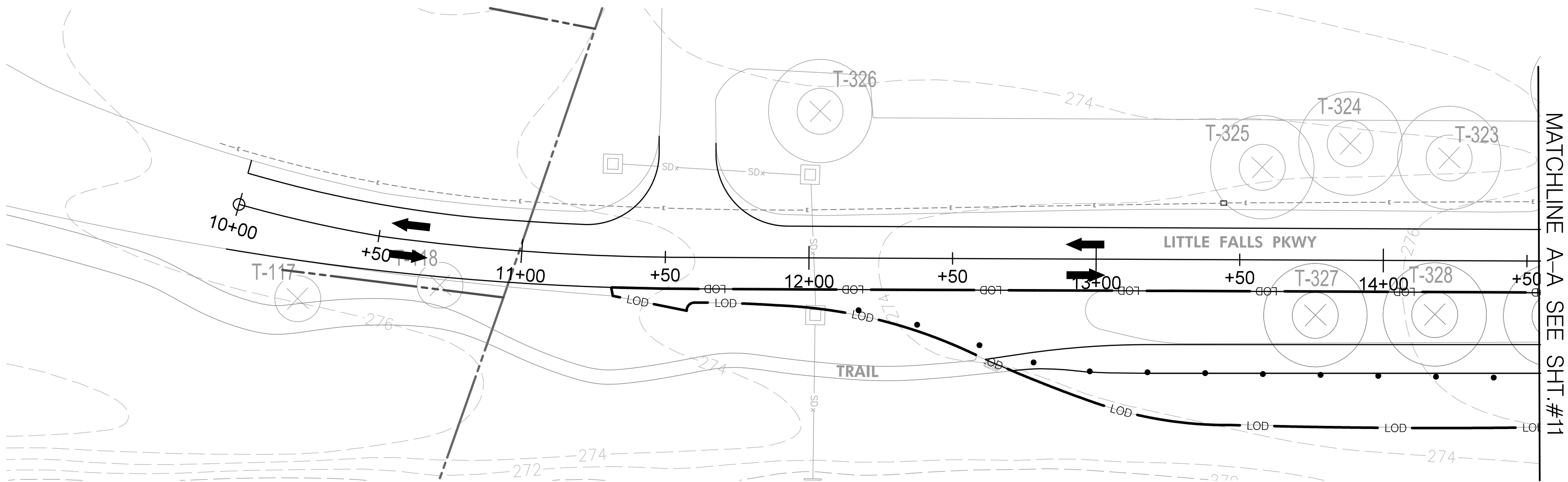
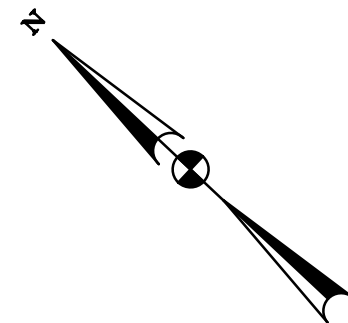
FINAL SCANNED:

PLAN SCANNED:

PARK CODE: NA

Wednesday, April 17, 2019 AT 01:58 PM

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Sabra & Associates, Inc.		DESIGN		<div>Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.</div> <div>PROFESSIONAL STAMP</div>	<div>The Maryland-National Capital Park and Planning Commission</div> <div>Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535</div>	REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____		<div>Grading Plan</div> <div>Capital Crescent Trail</div> <div>SCALE: 1"=30'</div>	<div>DWG. # <u>2</u> of <u>2</u></div> <div>SHT. # <u>12</u> of <u>24</u></div>
Designer's Name						REVISIONS					
7055 Samuel Morse Drive, #100	Landscape Architect	Date	Checked By:	Rev. No.	Date	Description					
Address	Architect	Date	Checked By:								
Columbia, MD 21046	BW	04/2019									
City/State/Zip	Engineer	Date	Checked By:								
(443) 741-3500	CK	04/2019									
Telephone Number	Drawn By	Date	Checked By:								
				License No. _____							
				Expiration Date _____							



FINAL SCANNED:

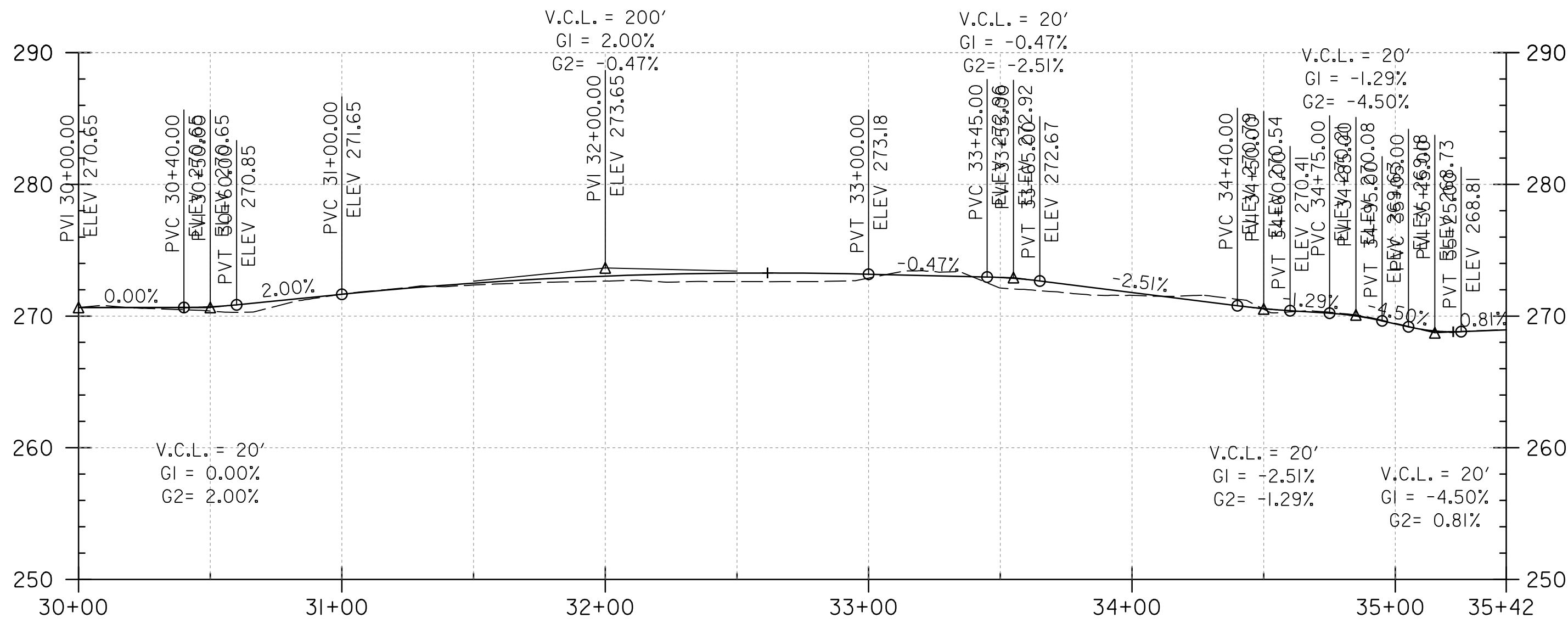
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PARK CODE: NA

Wednesday, April 17, 2019 AT 01:55 PM

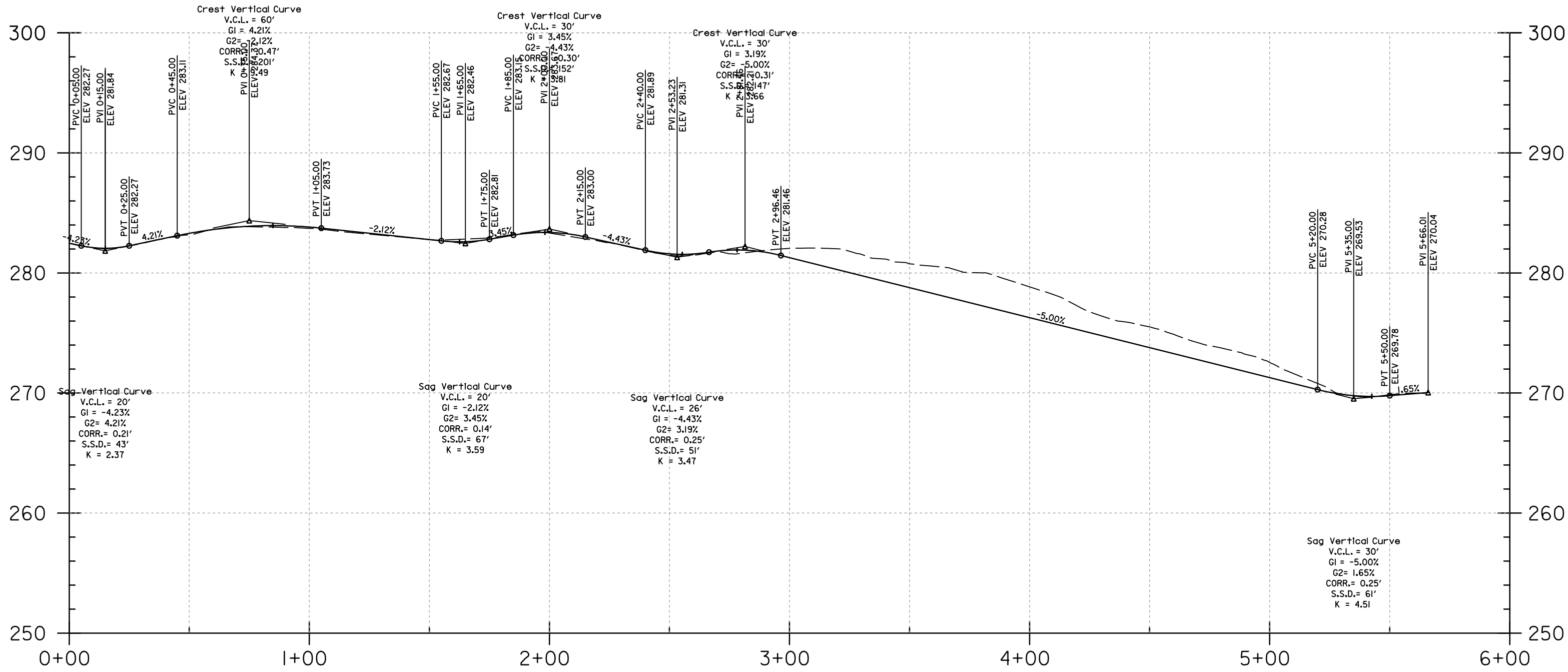
R:\2017\41 CapitalCrescent Trail\_MNCP\PC \$148(DWG)30% Plans\p1C-F100\_CCT.dgnPLOTTED BY: seller -

# Hillandale Rd Trail



LINE	SURFACE	OFFSET
--	GIS Contours	0.0000
Scaled 5.0000 Times Ver. Scaled 1.0000 Times Hor.		

# Little Falls Rd Trail



LINE	SURFACE	OFFSET
--	GIS Contours	0.0000
Scaled 5.0000 Times Ver. Scaled 1.0000 Times Hor.		

Sabra & Associates, Inc.

Designer's Name

7055 Samuel Morse Drive, #100

Address

Columbia, MD 21046

City/State/Zip

(443) 741-3500

Telephone Number

DESIGN		
Landscape Architect	Date	Checked By:
Architect	Date	Checked By:
BW	04/2019	
Engineer	Date	Checked By:
CK	04/2019	
Drawn By	Date	Checked By:

**Professional Certification.** I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. \_\_\_\_\_

Expiration Date \_\_\_\_\_

PROFESSIONAL STAMP

**The Maryland-National Capital Park and Planning Commission**

Montgomery County Department of Parks  
9500 Brunett Avenue  
Silver Spring, Maryland 20901  
(301) 495-2535

REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____	
		REVISIONS	
Rev. No.	Date	Description	

Project Manager

Date

Construction Manager

Date

Park Manager

Date

## Cross Sections

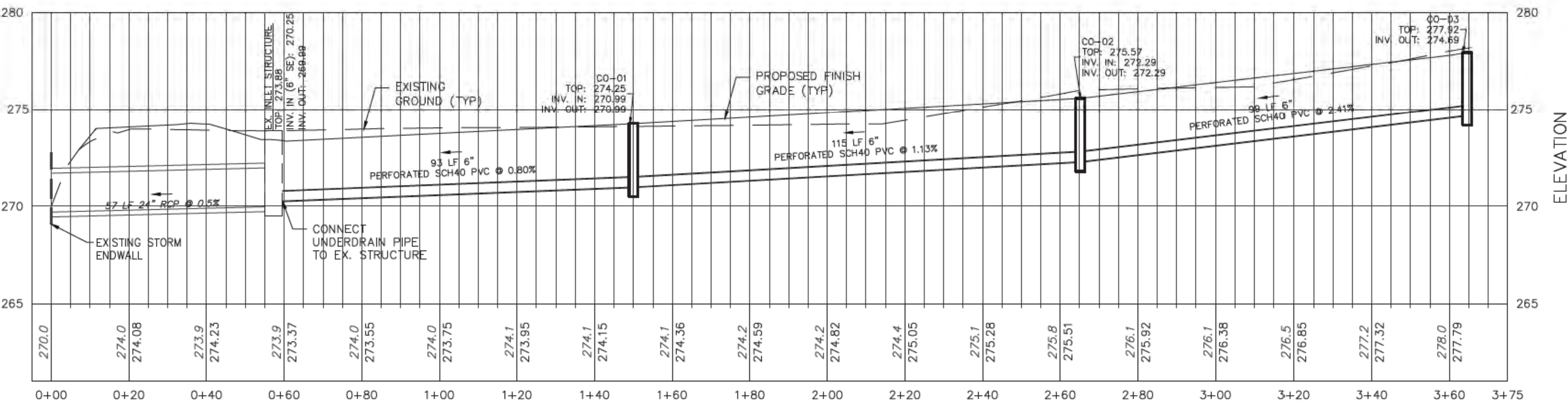
## Capital Crescent Trail

SCALE: AS SHOWN

DWG. # 1 of 1

SHT. # 13 of 24



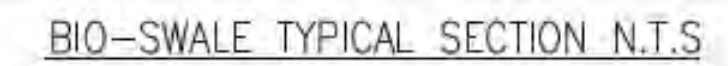


**HORIZONTAL SCALE: 1"=20'**


20' 0 20' 40'


**VERTICAL SCALE: 1"=4'**


4' 0 4' 8'



**LEGEND**

DRAINAGE DIVIDE 

TREATED IMPERVIOUS COVER 

PROPOSED SPOT ELEVATION 

Bio Swale-1 (Proposed Parraller to SB-Little Falls Parkway Before Arlington Rd.)			
Impervious Area	8980		
Total DA to Bio-Swale	15960		
I	56%	Proposed Area (SF)	915
Rv	0.56	Proposee Planting Medium Depth (Ft.)	2
Pe (MAX)	2.6	Gravel Layer Depth (Ft.)	1
Pe (MIN)	1.0	Sand Layer Depth (Ft.)	0.5
		Void Ratio for Sand, Gravel, and Planting Medium	0.4
ESDv (MAX)	1924	<b>Required ESDv (CF)</b>	<b>1278</b>
ESDv (MIN)	740	ESDv (provided in the filter Media) (CF)	1281
		ESDv Met	<b>Yes</b>

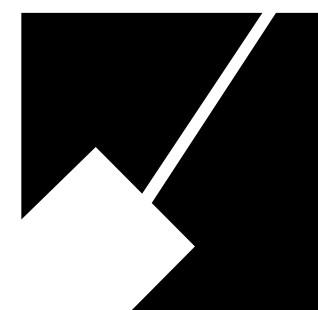
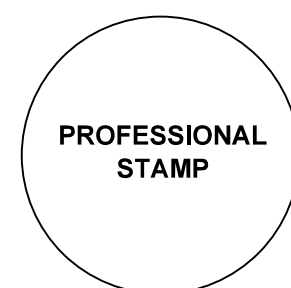
**Professional Certification.** I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. \_\_\_\_\_

Expiration Date \_\_\_\_\_

License No. \_\_\_\_\_

Expiration Date \_\_\_\_\_



Montgomery County Department of Parks  
9500 Brunett Avenue  
Silver Spring, Maryland 20901  
(301) 495-2535

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SCALE: AS SHOWN

SHT. # 14 of 24



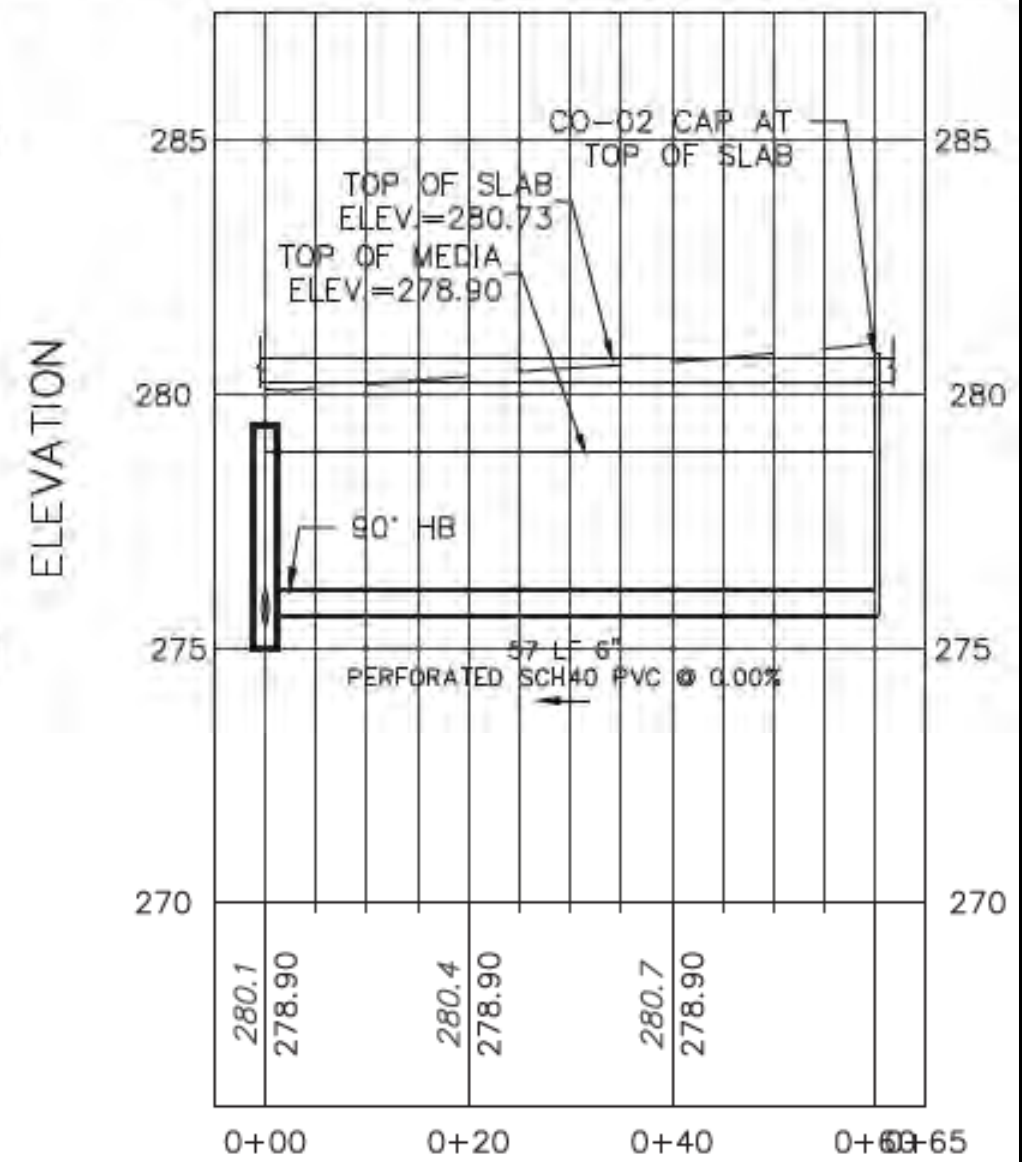
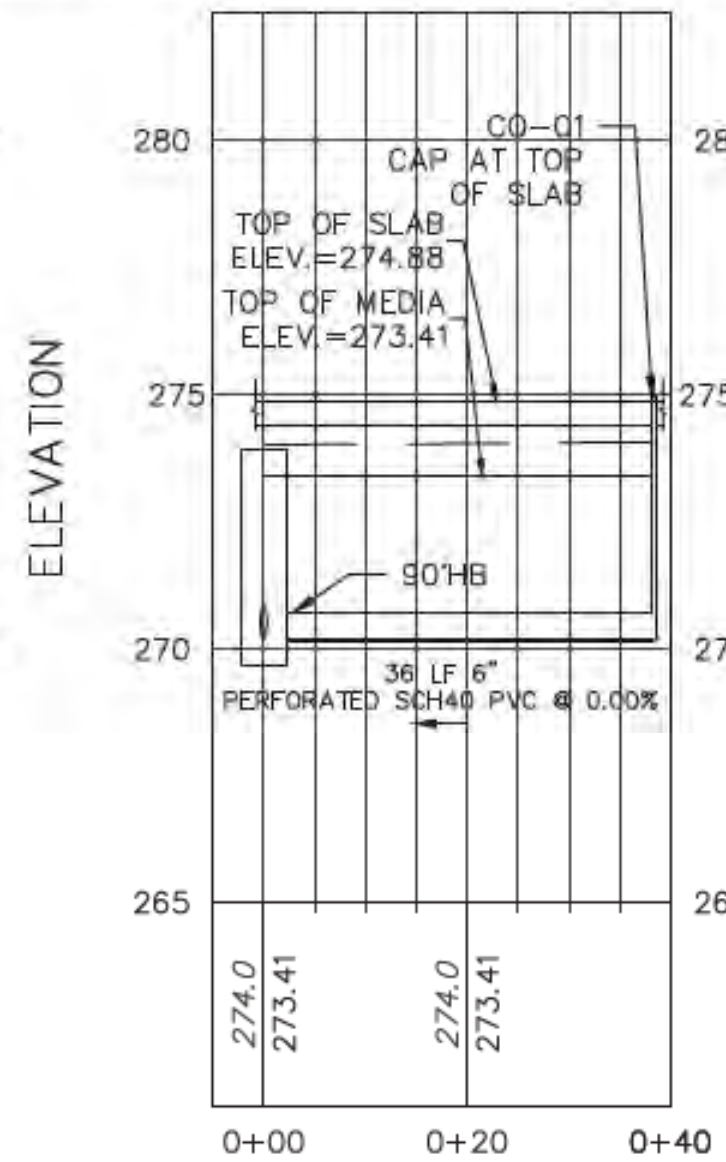
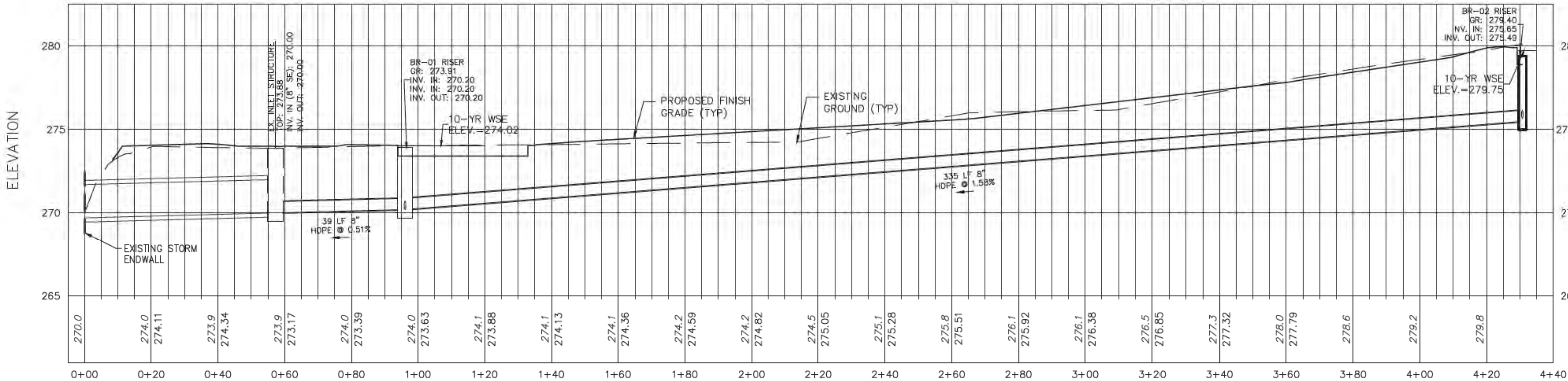
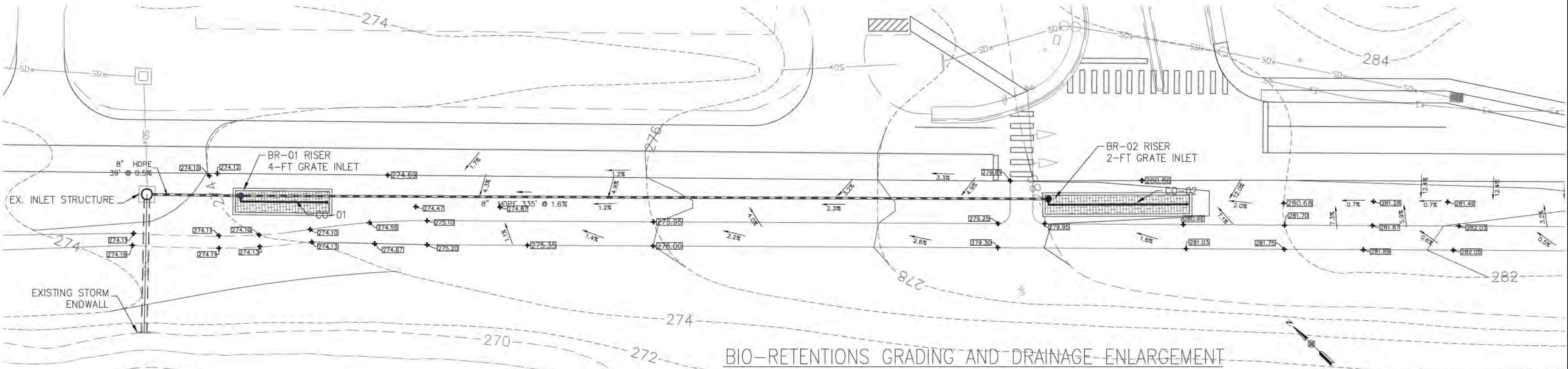
FINAL SCANNED:

PLAN SCANNED:

PARK CODE: NA

Wednesday, April 10, 2019 AT 03:31 PM

R:\2017\41 CapitalCrescent Trail\_MNCPPC \$148(DWG)30% Plans\USW-P002\_CCT\_TopPLOTTED BY: Keller -



BIO-RETENTION BR-01			
Impervious Area	6890		
Total DA-1	13450	Proposed Area (SF)	312
I	51%	Ponding depth	0.5
Rv	0.51	Proposee Planting Medium Depth (Ft.)	2
Pe (MAX)	2.6	Gravel Layer Depth (Ft.)	1
Pe (MIN)	1.0	Sand Layer Depth (Ft.)	0.5
		Void Ratio for Sand, Gravel, and Planting Medium	0.4
ESDv (MAX)	1489		
ESDv (MIN)	573	ESDv (provided in the filter Media) (CF)	593
BIO-RETENTION BR-02			
Impervious Area	10848		
Total DA-2	16125	Proposed Area (SF)	468
I	67%	Ponding depth	0.5
Rv	0.66	Proposee Planting Medium Depth (Ft.)	2
Pe (MAX)	2.6	Gravel Layer Depth (Ft.)	1
Pe (MIN)	1.0	Sand Layer Depth (Ft.)	0.5
		Void Ratio for Sand, Gravel, and Planting Medium	0.4
ESDv (MAX)	2290		
ESDv (MIN)	881	ESDv (provided in the filter Media) (CF)	889
		Required ESDv (CF)	1276
		Total ESDv Provided	1482
		ESDv Met	Yes

DRAINAGE PROFILE

NOTE: OWNER IS RESPONSIBLE FOR ALL MAINTENANCE AND REGULAR INSPECTIONS.

BR-01 DRAINAGE PROFILE

BR-02 DRAINAGE PROFILE

LEGEND

PROPOSED SPOT ELEVATION



ALPHA Corporation Designer's Name 21351 Ridgeway Circle, Ste. 200 Address Dulles, VA 20166 City/State/Zip (703) 450-0800 Telephone Number	DESIGN			Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  License No. _____ Expiration Date _____		REVIEW AND APPROVAL  Project Manager _____ Date _____ Construction Manager _____ Date _____ Park Manager _____ Date _____	ISSUED FOR PROCUREMENT ON _____  REVISIONS Rev. No. Date Description	SWM Plan - Alternate Capital Crescent Trail  SCALE: AS SHOWN	DWG. # 2 of 3  SHT. # 15 of 24
	Landscape Architect	Date	Checked By:						
	Architect	Date	Checked By:						
	Engineer	Date	Checked By:						
	Drawn By	Date	Checked By:						



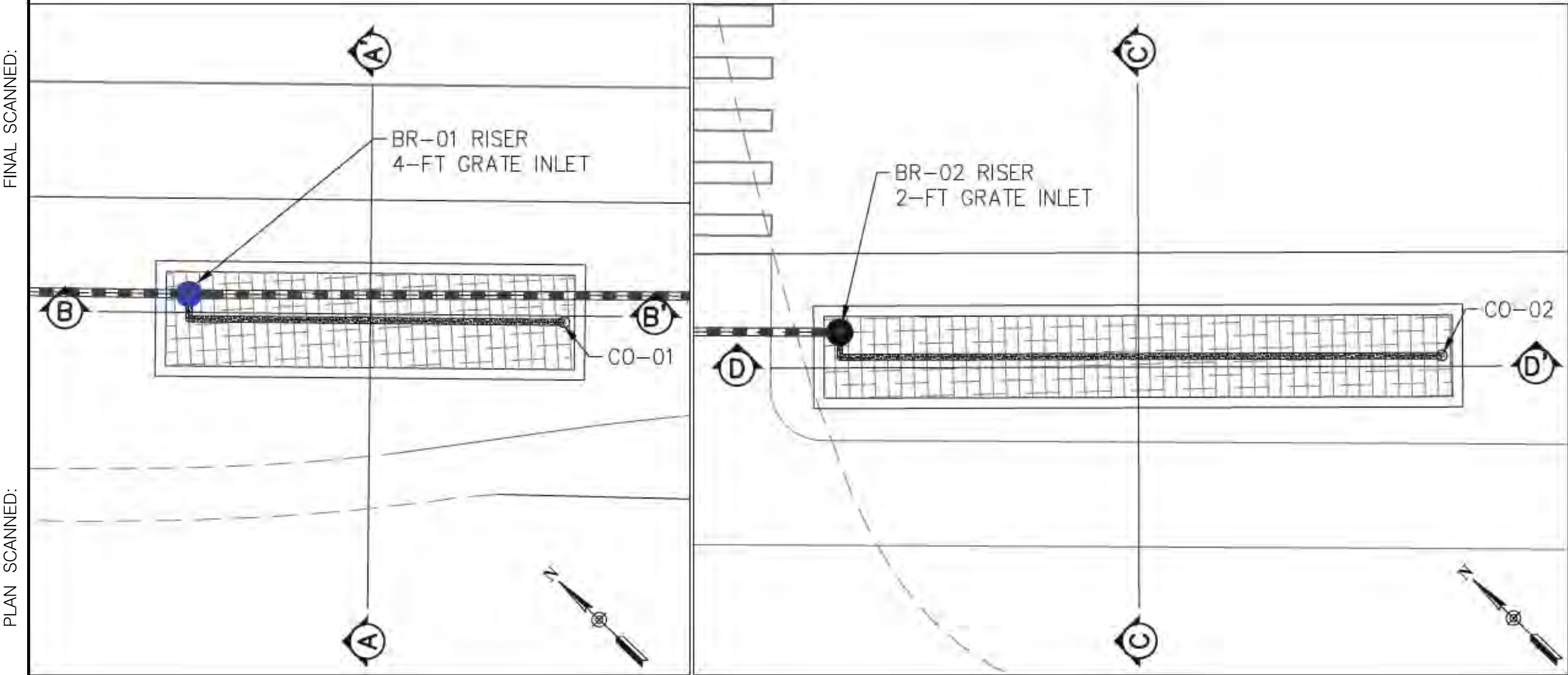
FINAL SCANNED:

PLAN SCANNED:

PARK CODE: NA

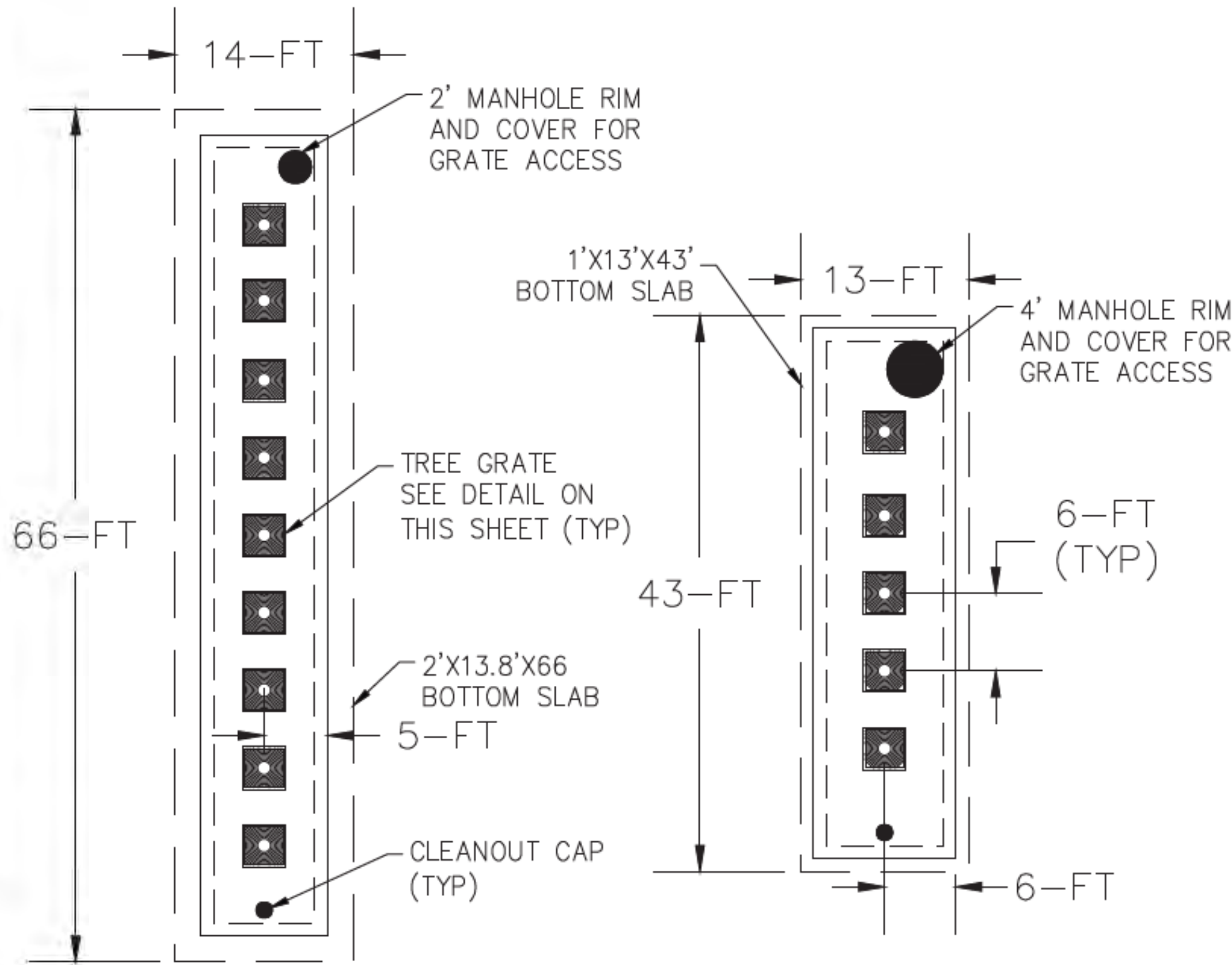
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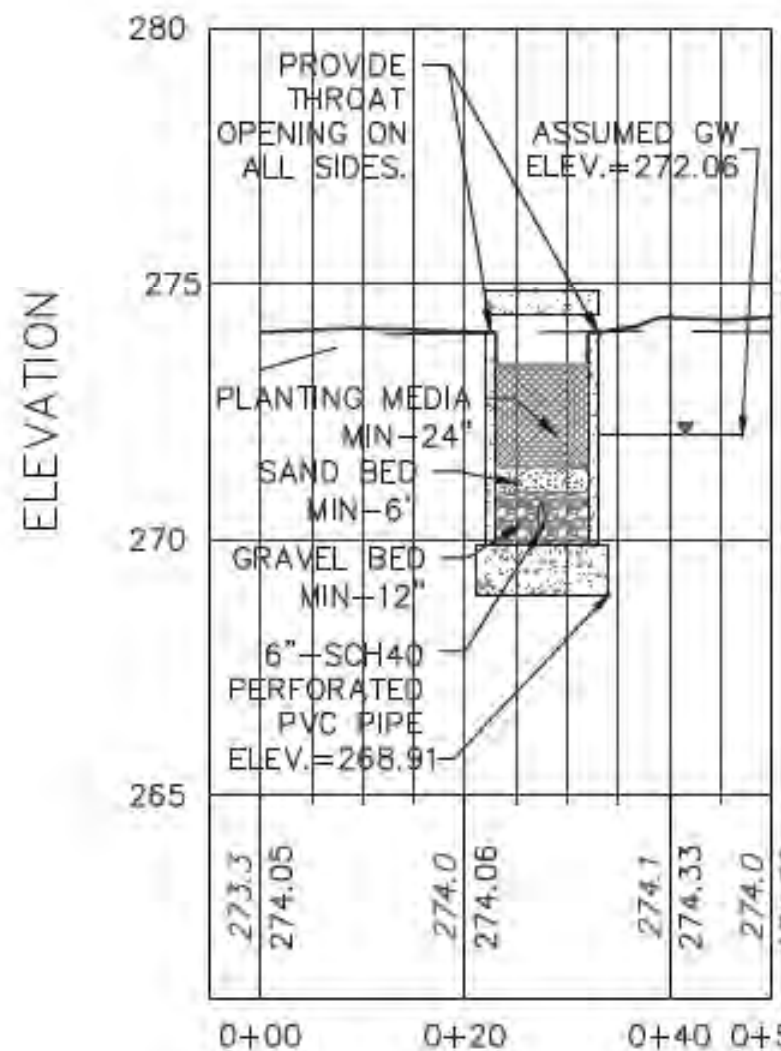


BIO-RETENTION ENLARGEMENT 1"=10'

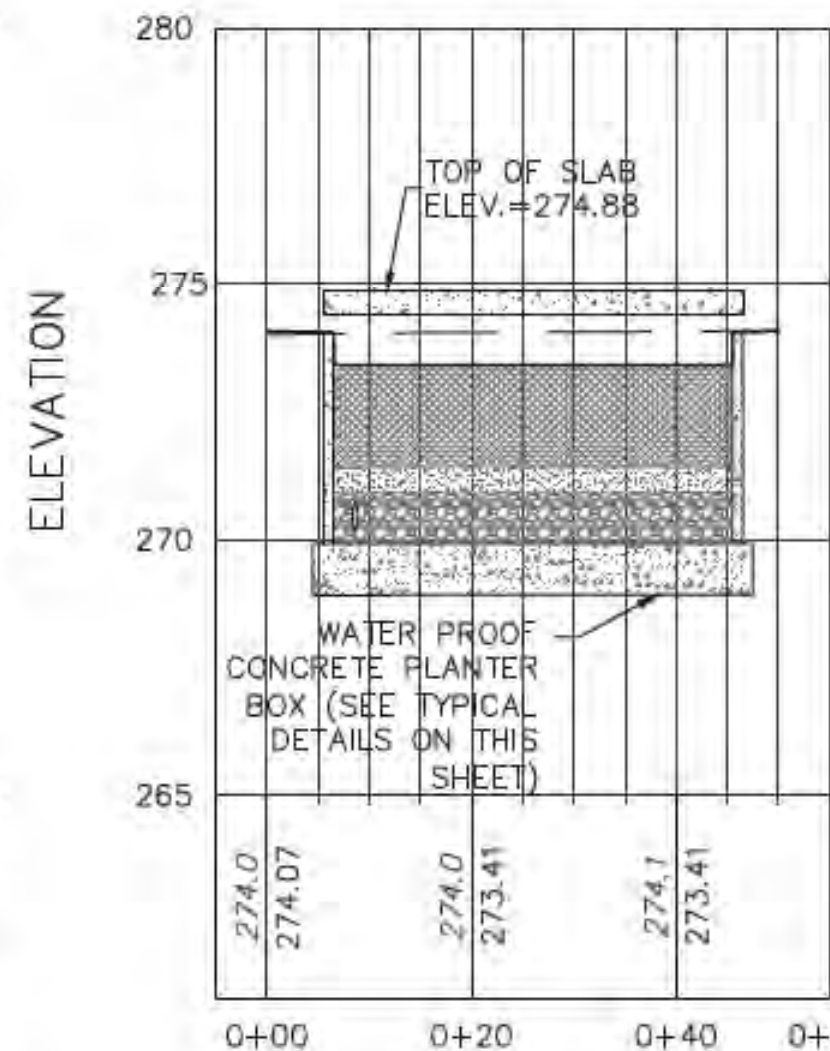
STRUCTURE INFORMATION		
DIMENSIONS	BIO-RETENTION BR-01	BIO-RETENTION BR-02
PLANTER BOX SIZES (FT)		
WALL THICKNESS	1	1
WIDTH	9	7.8
LENGTH	39	60
TOP SLAB SIZES (FT)		
THICKNESS	1	1
WIDTH	11	9.8
LENGTH	41	62
BASE SLAB SIZES (FT)		
THICKNESS	1	2
WIDTH	13	13.8
LENGTH	43	66
CONCRETE VOLUME (CF)	1361	2897
WEIGHT GRATES AND COVER (LBS.)	800	900
WEIGHT OF STRUCTURE (LBS.)	204950	435480
BACKFILL AND SLIDING RESISTANCE FORCES		
ASSUMED BACKFILL $\gamma_{sub}$	70	70
BURIED STRUCTURAL PERIMETER (FT)	104	144
P (LBS./FT)	306	306
SLIDING RESISTANCE (LBS.)	9558	13197
WEIGHT SOIL (LBS.)	31374	66856
BOX BOTTOM ELEV.	268.9	273.4
ASSUMED GW ELEV.	272.1	278.6
SUBMERGED DEPTH	3.1	5.2
BUOYANCY ANALYSIS RESULTS		
TOTAL RESISTING FORCES (LB.)	245882	515533
BUOYANT FORCE (LB.)	88649	197154
F.S. MIN 2.0	2.8	2.6



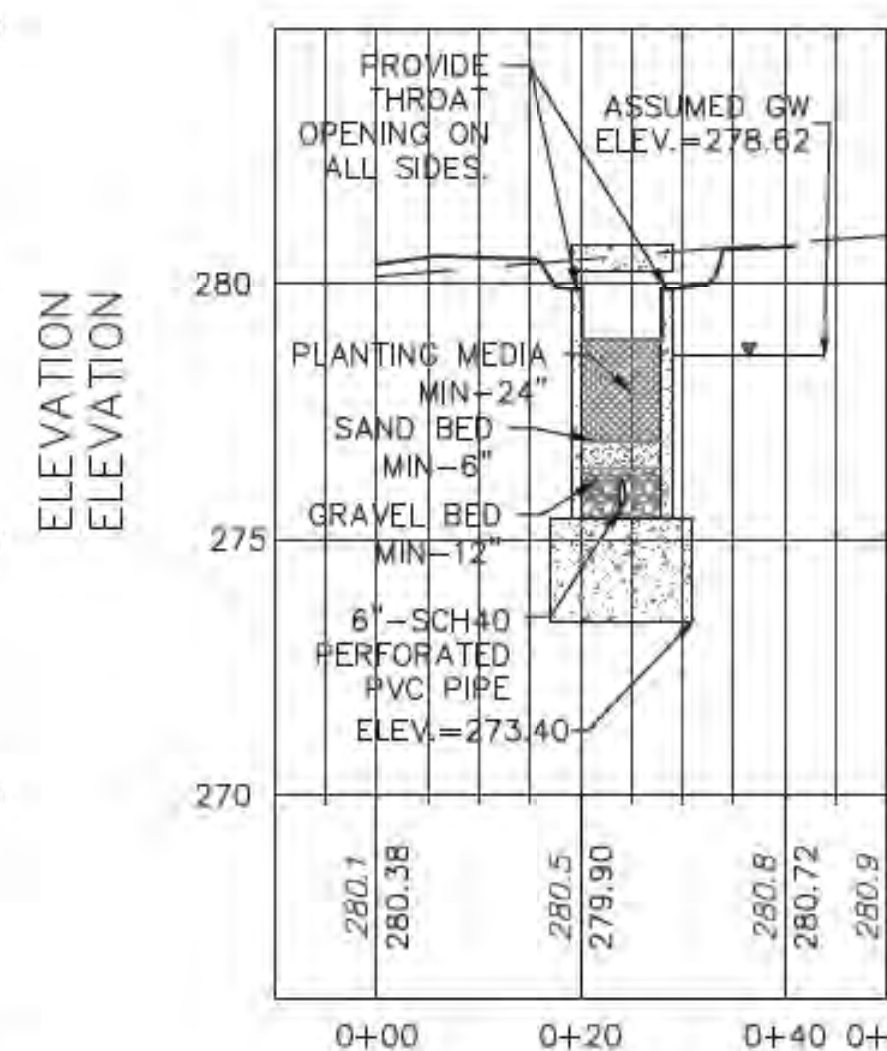
BIO-RETENTION PLAN DETAIL 1"=10'



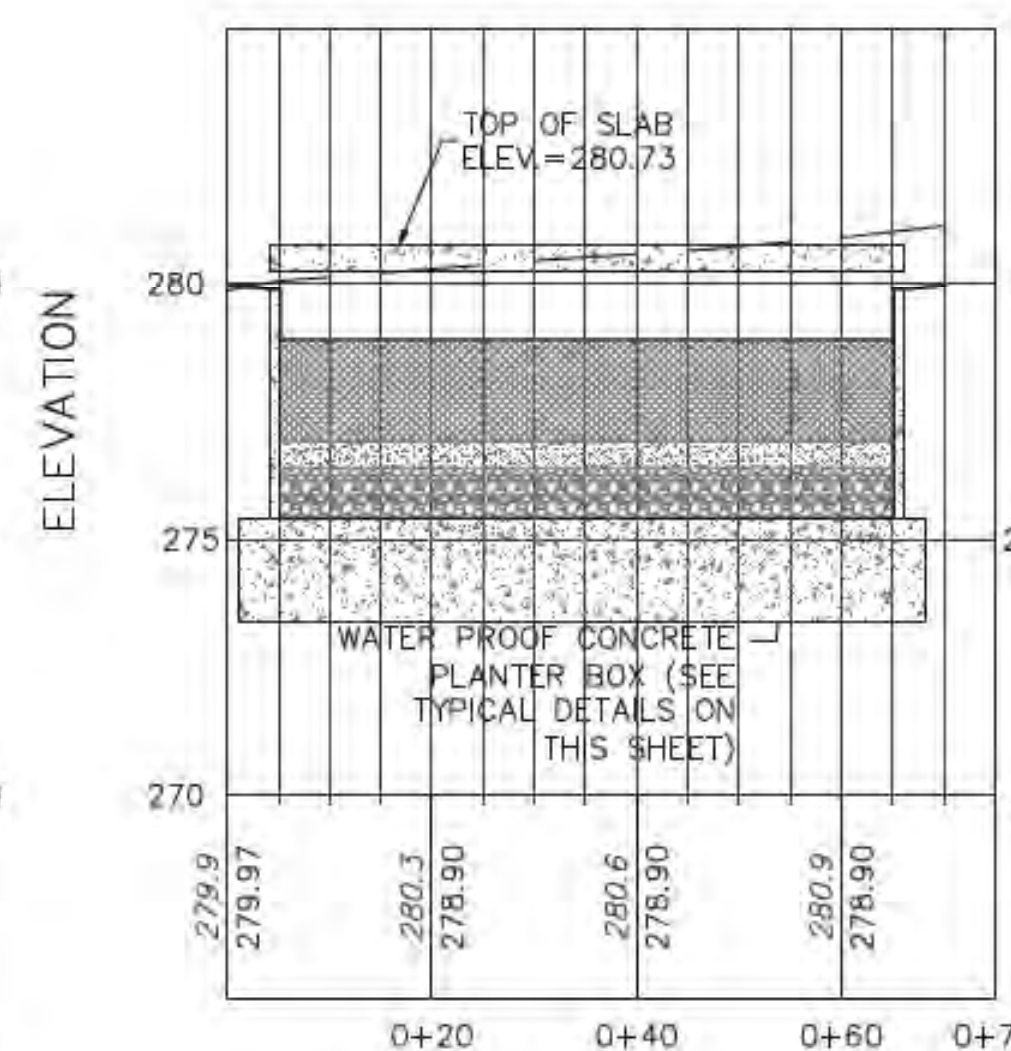
BR-01 SECTION A-A'



BR-01 SECTION B-B'



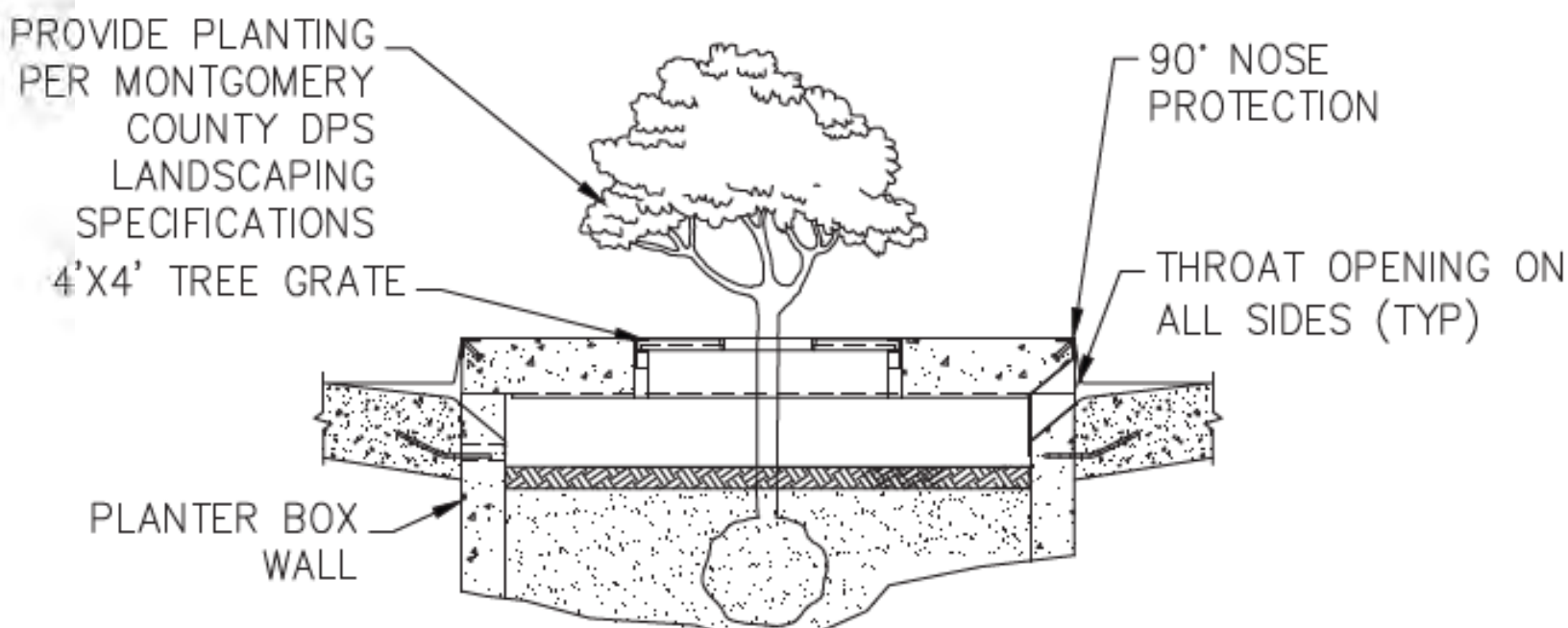
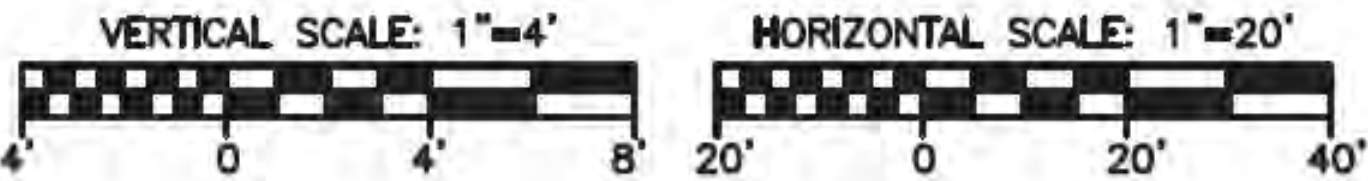
BR-02 SECTION C-C'



BR-02 SECTION D-D'

NOTE: OWNER IS RESPONSIBLE FOR ALL MAINTENANCE AND REGULAR INSPECTIONS.

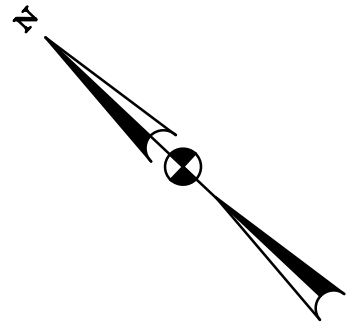
BIO-RETENTION SECTION PROFILES



BIO-RETENTION TREE GRATE SECTION N.T.S

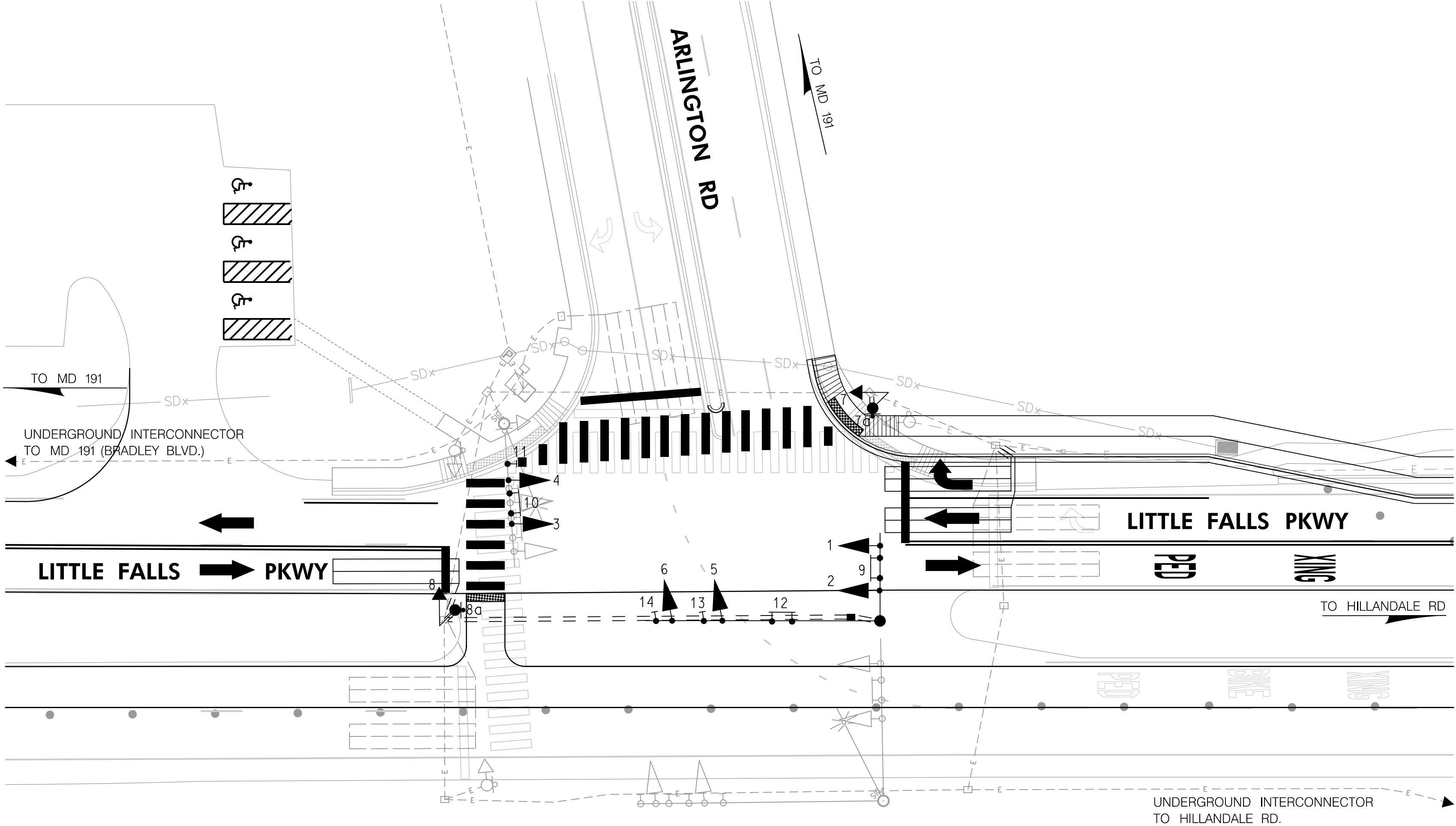
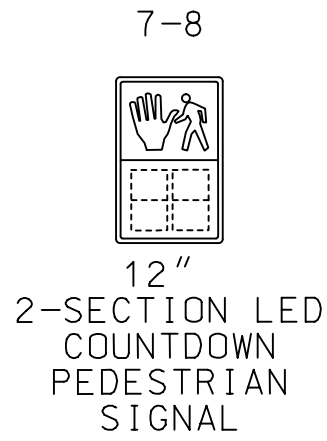
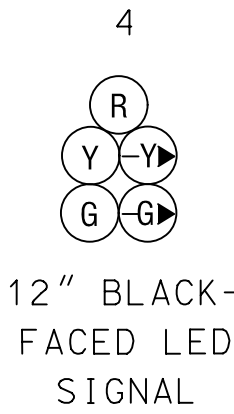
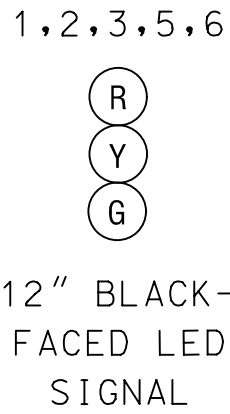
<b>DESIGN</b>			<b>Professional Certification.</b> I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.		<b>REVIEW AND APPROVAL</b>		<b>ISSUED FOR PROCUREMENT ON</b>		<b>SWM Bio-Retention Details-Alternate Capital Crescent Trail</b>		<b>DWG. # 3 of 3</b>		
ALPHA Corporation	Landscape Architect	Date	Checked By:	License No. _____	Project Manager	Date	Rev. No.	Date	Description	SCALE: AS SHOWN		<b>SHT. # 16 of 24</b>	
Designer's Name	Architect	Date	Checked By:	Expiration Date _____	Construction Manager	Date							
21351 Ridgeway Circle, Ste. 200	Engineer	Date	Checked By:		Park Manager	Date							
Address	Drawn By	Date	Checked By:										
Dulles, VA 20166													
City/State/Zip													
(703) 450-0800													
Telephone Number													



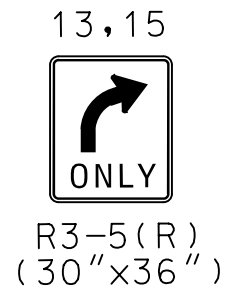
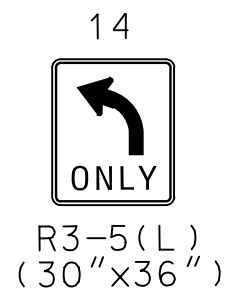
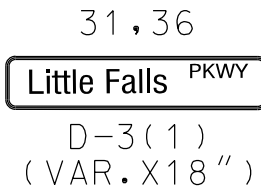
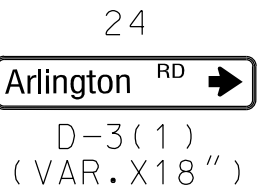
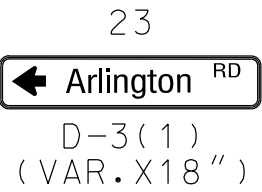
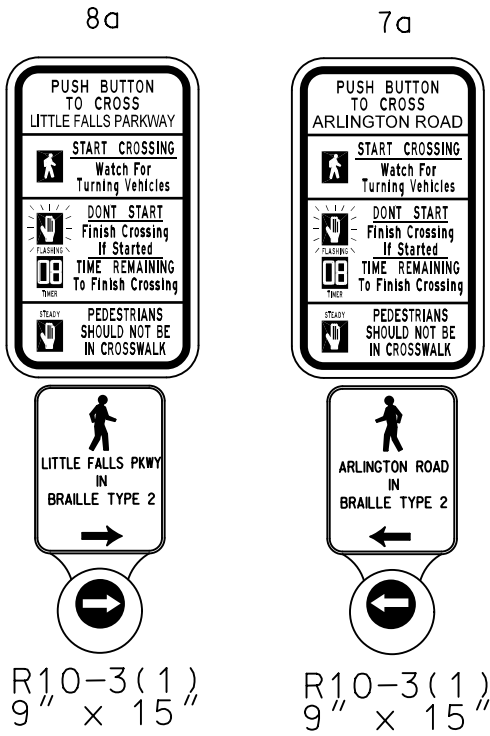


LITTLE FALLS PARKWAY IS ASSUMED TO RUN  
IN AN EAST-WEST DIRECTION

PROPOSED SIGNALS



PROPOSED SIGNS

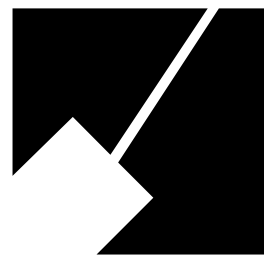
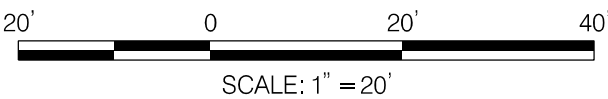


GEOMETRIC LEGEND

———— EXISTING  
———— PROPOSED

UTILITY LEGEND

——SD—— STORM DRAIN  
- - - - - E - - - - - ELECTRICAL



The Maryland-National Capital  
Park and Planning Commission  
Montgomery County Department of Parks  
9500 Brunett Avenue  
Silver Spring, Maryland 20901  
(301) 495-2535



NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: B. WHITE	DATE 04/2019
					DRAWN BY: C. KELLER	DATE 04/2019
					CHECKED BY: S. DU	DATE 04/2019
					DRAWING NO.:	
					Approved: _____ Chief, Traffic Engineering and Operations	
					Reviewed: _____ Manager, Transportation Systems Engineering	
					Reviewed: _____ Manager, Traffic Control and Lighting Engineering	
					Recommended: _____ Engineer, Transportation Systems Engineering	

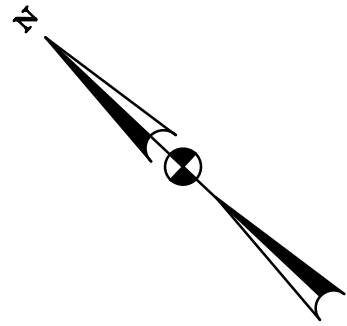
DEPARTMENT OF TRANSPORTATION  
DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS  
MONTGOMERY COUNTY, MARYLAND

CAPITAL CRESCENT TRAIL  
PED. CROSSING IMPROVEMENT PLAN  
LITTLE FALLS PKWY. AT ARLINGTON RD.  
BETHESDA, MARYLAND  
TRAFFIC SIGNAL PLAN

SCALE: 1"=20'

DATE: APRIL 2019

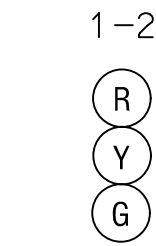




LITTLE FALLS PARKWAY IS ASSUMED TO RUN  
IN AN EAST-WEST DIRECTION

RELOCATED SIGNALS

PROPOSED SIGNALS



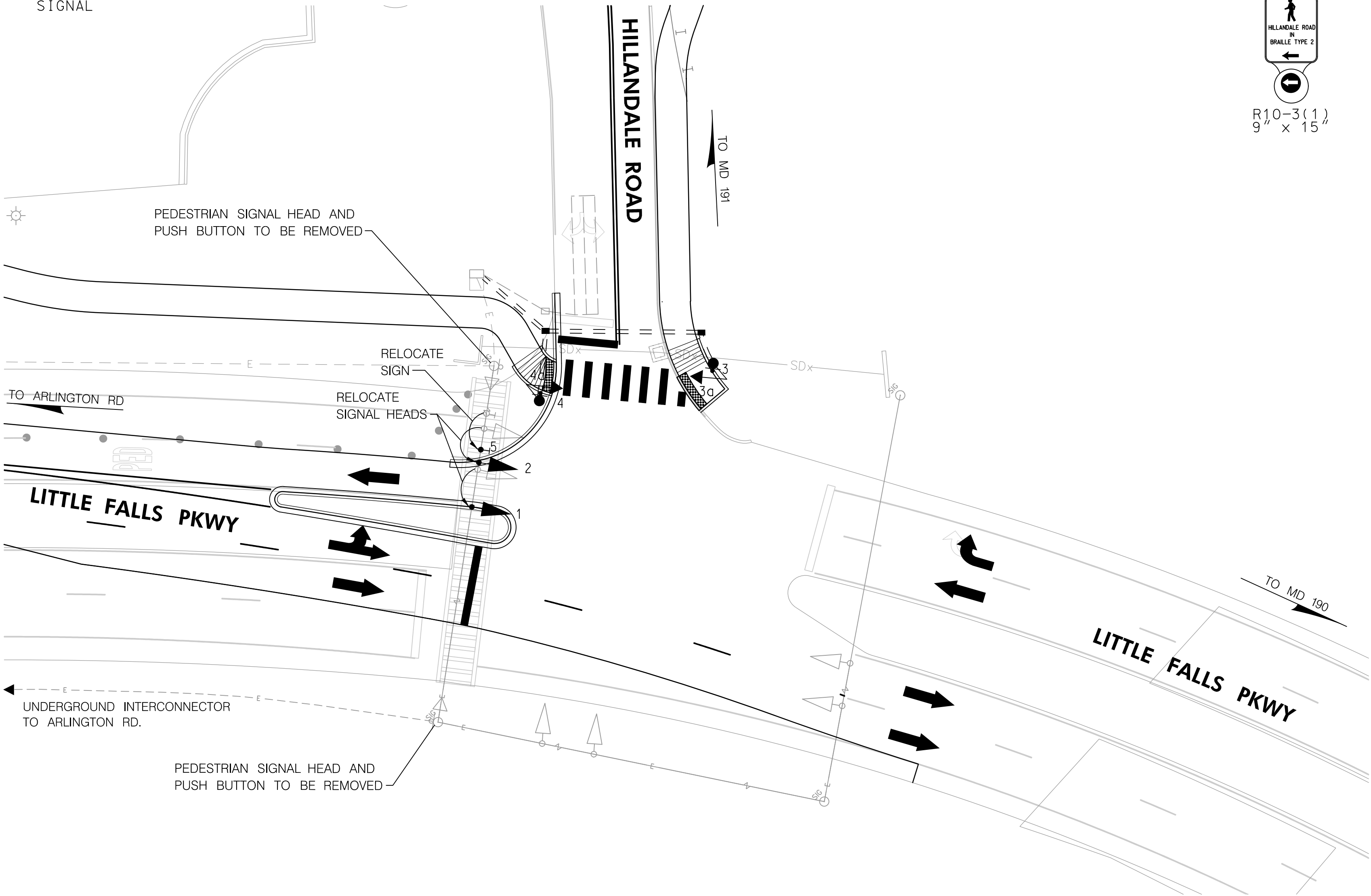
1-2  
12" BLACK-  
FACED LED  
SIGNAL



3-4  
12"  
2-SECTION LED  
COUNTDOWN  
PEDESTRIAN  
SIGNAL

PROPOSED SIGNS

RELOCATED SIGN

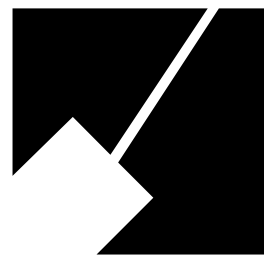
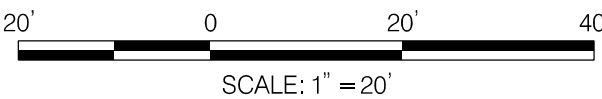


GEOMETRIC LEGEND

EXISTING  
PROPOSED

UTILITY LEGEND

SDx STORM DRAIN  
E ELECTRICAL



The Maryland-National Capital  
Park and Planning Commission  
Montgomery County Department of Parks  
9500 Brunett Avenue  
Silver Spring, Maryland 20901  
(301) 495-2535



NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: B. WHITE	DATE 04/2019
					DRAWN BY: C. KELLER	DATE 04/2019
					CHECKED BY: S. DU	DATE 04/2019
					DRAWING NO.:	
					Approved: _____ Chief, Traffic Engineering and Operations	
					Reviewed: _____ Manager, Transportation Systems Engineering	
					Reviewed: _____ Manager, Traffic Control and Lighting Engineering	
					Recommended: _____ Engineer, Transportation Systems Engineering	

DEPARTMENT OF TRANSPORTATION  
DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS  
MONTGOMERY COUNTY, MARYLAND

CAPITAL CRESCENT TRAIL  
PED. CROSSING IMPROVEMENT PLAN  
LITTLE FALLS PKWY.AT HILLDALE RD.  
BETHESDA, MARYLAND  
TRAFFIC SIGNAL PLAN

SCALE: 1"=20'

DATE: APRIL 2019



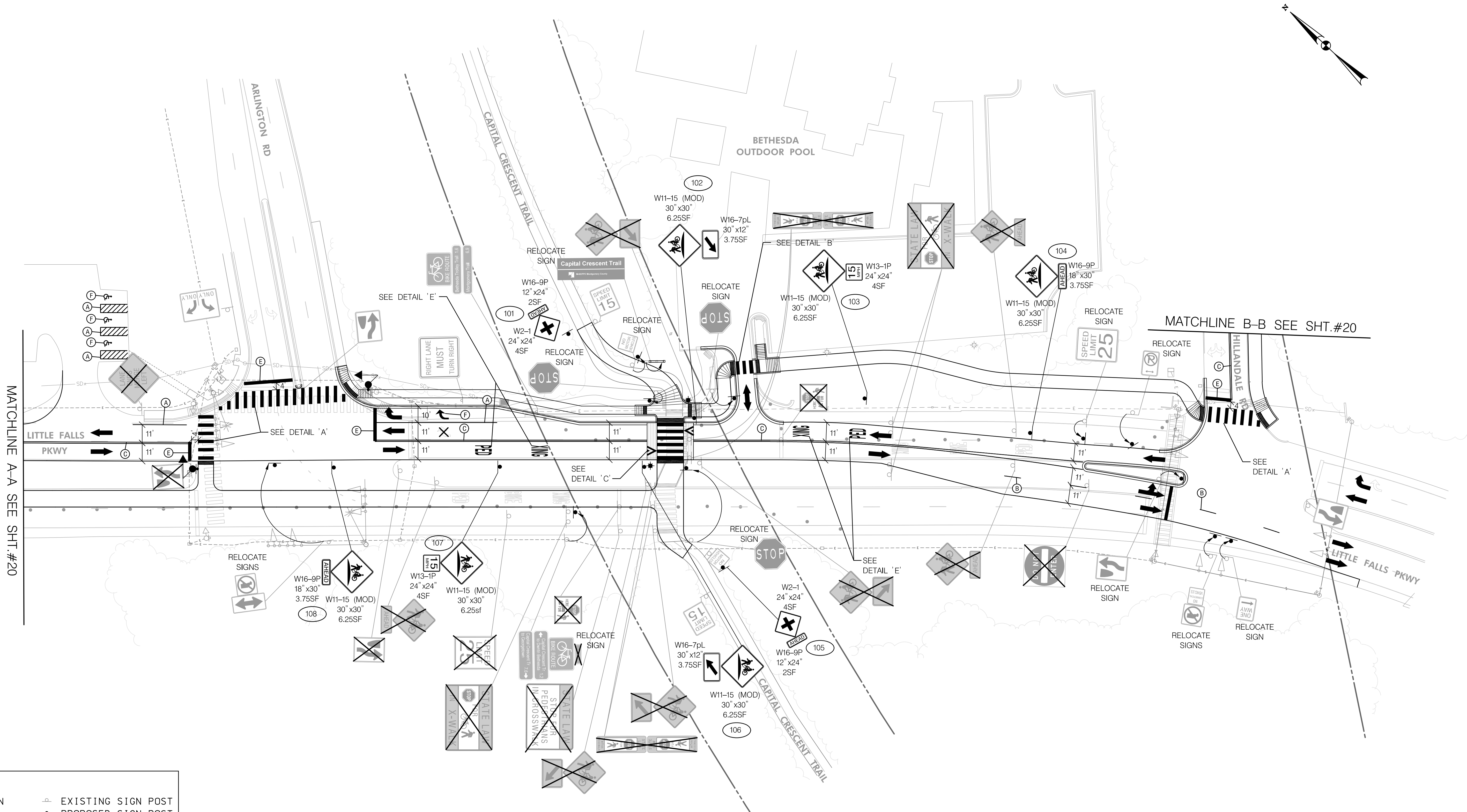
FINAL SCANNED:

PLAN SCANNED:

PARK CODE: NA

Wednesday, April 17, 2019 AT 02:48 PM

R:\2017\41 CapitalCrescent Trail\_MNCP\PCP \$148 (DWG)30% Plans\30%LAYOUT.DCT dgn PLOTTED BY: deller -



**SIGNING LEGEND:**

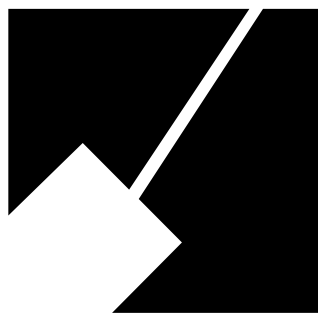
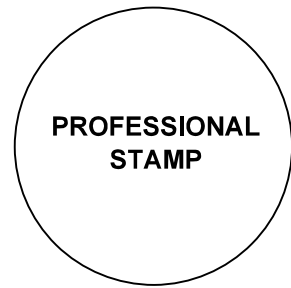
	EXISTING SIGN TO REMAIN		EXISTING SIGN POST
	EXISTING SIGN TO BE REMOVED		PROPOSED SIGN POST
	PROPOSED SIGN		

**PAVEMENT MARKING LEGEND:**

- Ⓐ 5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING - SOLID
- Ⓑ 5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING - 10' STRIPE, 30' SKIP
- Ⓒ 5 INCH DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING
- Ⓓ 12 INCH WHITE THERMOPLASTIC PAVEMENT MARKING
- Ⓔ 24 INCH WHITE THERMOPLASTIC PAVEMENT MARKING
- Ⓕ WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGEND AND SYMBOLS

SIGNAGE SCHEDULE			
SIGN ID	SIGN TYPE	QTY. (SHEET ALUMINUM)	SIGN SUPPORT
101	W2-1, W16-9P	6 SF	ONE 14' SQUARE PERFORATED STEEL TUBULAR SIGN POST
102	W11-15 (MOD), W16-7PL	10 SF	ONE 14' SQUARE PERFORATED STEEL TUBULAR SIGN POST
103	W11-15 (MOD), W13-1P	10.25 SF	ONE 14' SQUARE PERFORATED STEEL TUBULAR SIGN POST
104	W11-15 (MOD), W16-9P	10 SF	ONE 14' SQUARE PERFORATED STEEL TUBULAR SIGN POST
105	W2-1, W16-9P	6 SF	ONE 14' SQUARE PERFORATED STEEL TUBULAR SIGN POST
106	W11-15 (MOD), W16-7PL	10 SF	ONE 14' SQUARE PERFORATED STEEL TUBULAR SIGN POST
107	W11-15 (MOD), W13-1P	10.25 SF	ONE 14' SQUARE PERFORATED STEEL TUBULAR SIGN POST
108	W11-15 (MOD), W16-9P	10 SF	ONE 14' SQUARE PERFORATED STEEL TUBULAR SIGN POST

Sabra & Associates, Inc.		<b>DESIGN</b>		<b>Professional Certification.</b> I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  License No. _____ Expiration Date _____	
Designer's Name		Landscape Architect	Date		Checked By:
7055 Samuel Morse Drive, #100					
Address		Architect	Date		Checked By:
Columbia, MD 21046		BW	04/2019		
City/State/Zip		Engineer	Date		Checked By:
(443) 741-3500		CK	04/2019		
Telephone Number		Drawn By	Date	Checked By:	



**The Maryland-National Capital Park and Planning Commission**  
Montgomery County Department of Parks  
9500 Brunet Avenue  
Silver Spring, Maryland 20901  
(301) 495-2535

REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____	
		REVISIONS	
Project Manager	Date	Rev. No.	Date
Construction Manager	Date		
Park Manager	Date		

## Signing and Marking Plan Capital Crescent Trail

SCALE: 1"=30'

DWG. # 1 of 3

SHT. # 19 of 24



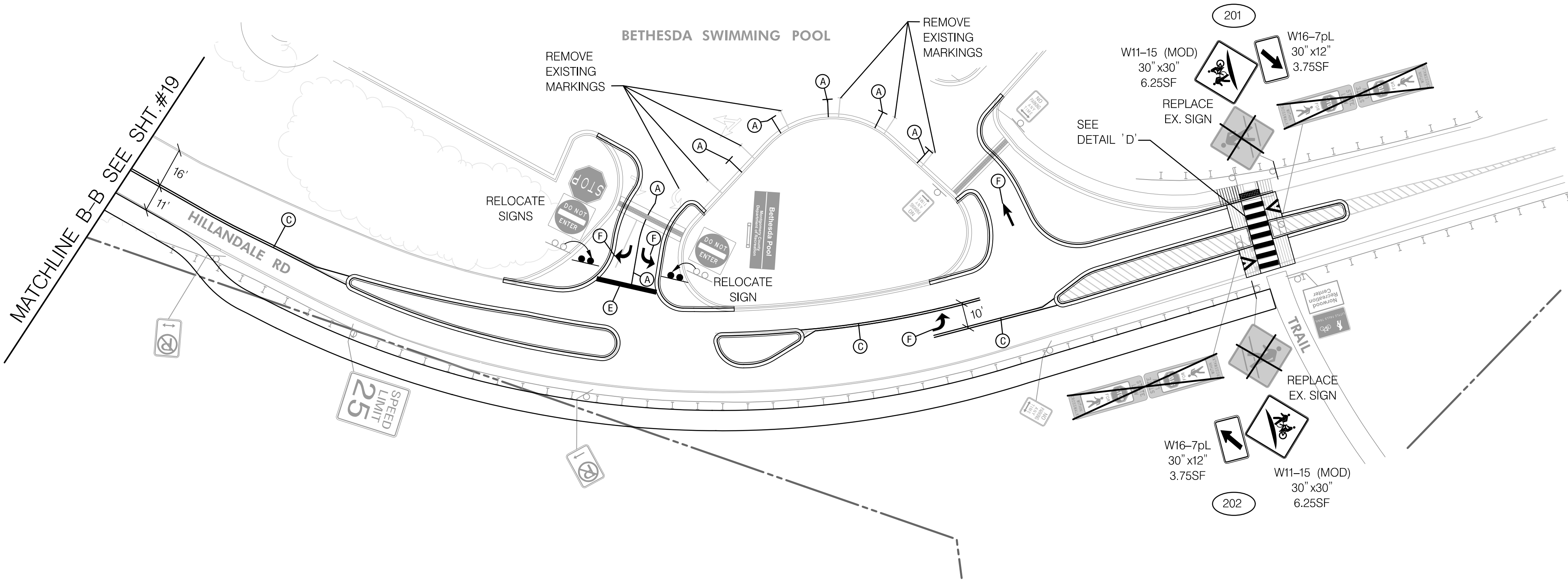
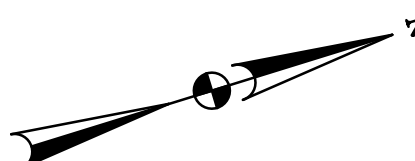
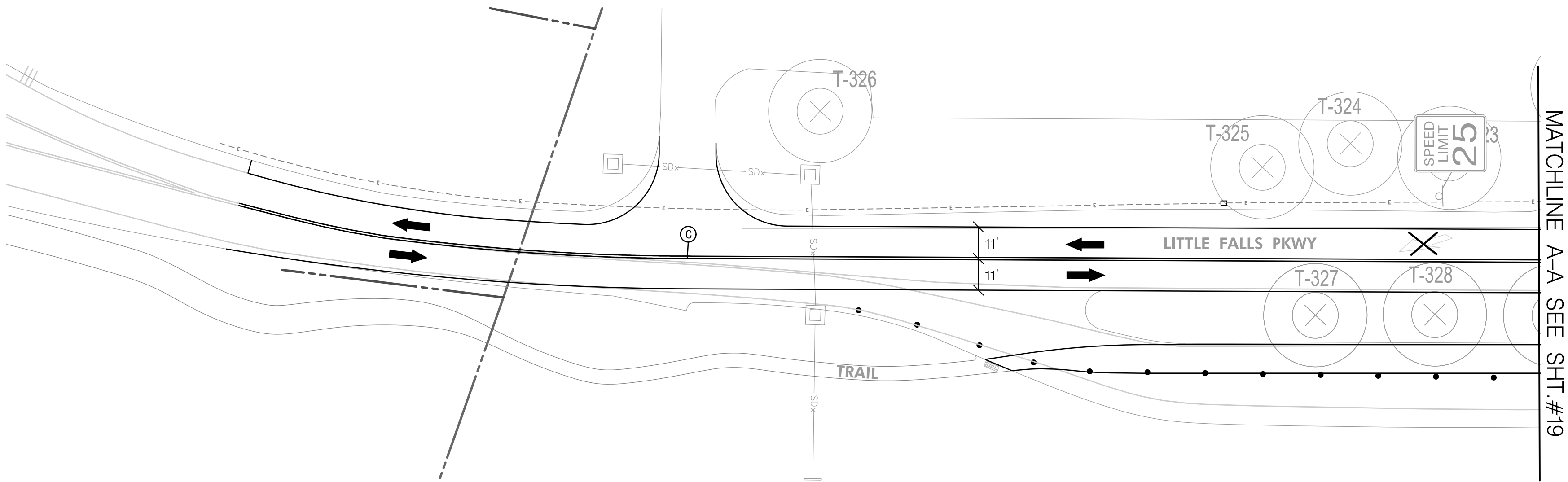
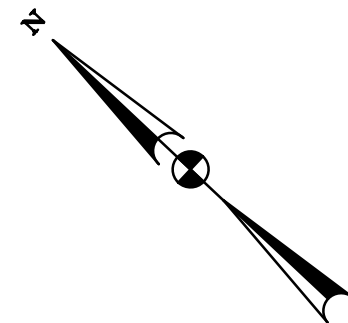
FINAL SCANNED:

PLAN SCANNED:

PARK CODE: NA

Wednesday, April 17, 2019 AT 02:00 PM

R:\2017\41 Capital Crescent Trail\_MNCP\PC \$148 (DWG) 30% Plans\30%L-Plan2 CCT.dgn PLOTTED BY: seller -



**SIGNING LEGEND:**

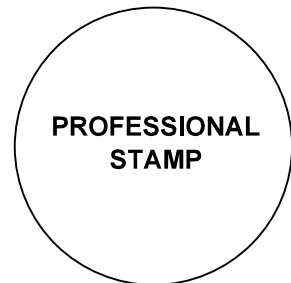
	EXISTING SIGN TO REMAIN		EXISTING SIGN POST
	EXISTING SIGN TO BE REMOVED		PROPOSED SIGN POST
	PROPOSED SIGN		

**PAVEMENT MARKING LEGEND:**

	5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING - SOLID
	5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING - 10' STRIPE, 30' SKIP
	5 INCH DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING
	12 INCH WHITE THERMOPLASTIC PAVEMENT MARKING
	24 INCH WHITE THERMOPLASTIC PAVEMENT MARKING
	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGEND AND SYMBOLS

SIGNAGE SCHEDULE			
SIGN ID	SIGN TYPE	QTY. (SHEET ALUMINUM)	SIGN SUPPORT
201	W11-15 (MOD), W16-7PL	10 SF	ONE 14' SQUARE PERFORATED STEEL TUBULAR SIGN POST
202	W11-15 (MOD), W16-7PL	10 SF	ONE 14' SQUARE PERFORATED STEEL TUBULAR SIGN POST

DESIGN			Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
Sabra & Associates, Inc.			
Designer's Name			
7055 Samuel Morse Drive, #100	Landscape Architect	Date	
Address			
Columbia, MD 21046	Architect	Date	
City/State/Zip	BW	04/2019	
(443) 741-3500	Engineer	Date	License No. _____
Telephone Number	CK	04/2019	Expiration Date _____
	Drawn By	Date	Checked By: _____



The Maryland-National Capital  
Park and Planning Commission  
Montgomery County Department of Parks  
9500 Brunnet Avenue  
Silver Spring, Maryland 20901  
(301) 495-2535

REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____	
		REVISIONS	
Project Manager	Date	Rev. No.	Date
Construction Manager	Date		
Park Manager	Date		

## Signing and Marking Plan Capital Crescent Trail

SCALE: 1"=30'

DWG. # 2 of 3

SHT. # 20 of 24



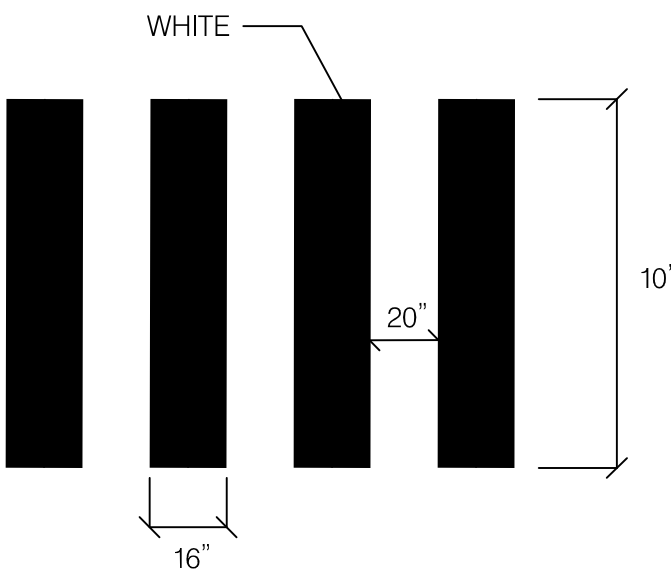
FINAL SCANNED:

PLAN SCANNED:

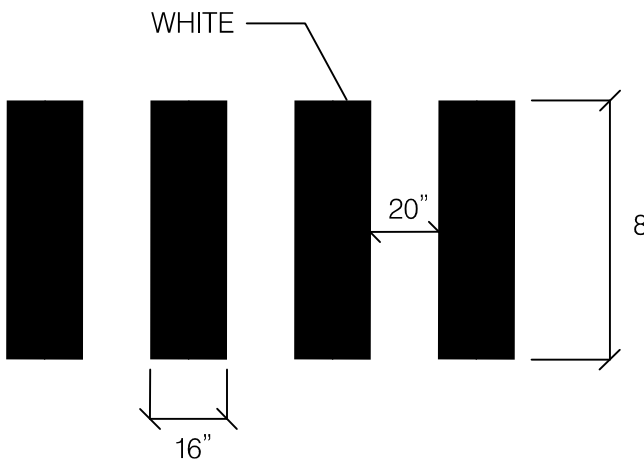
PARK CODE: NA

Tuesday, April 02, 2019 AT 03:58 PM

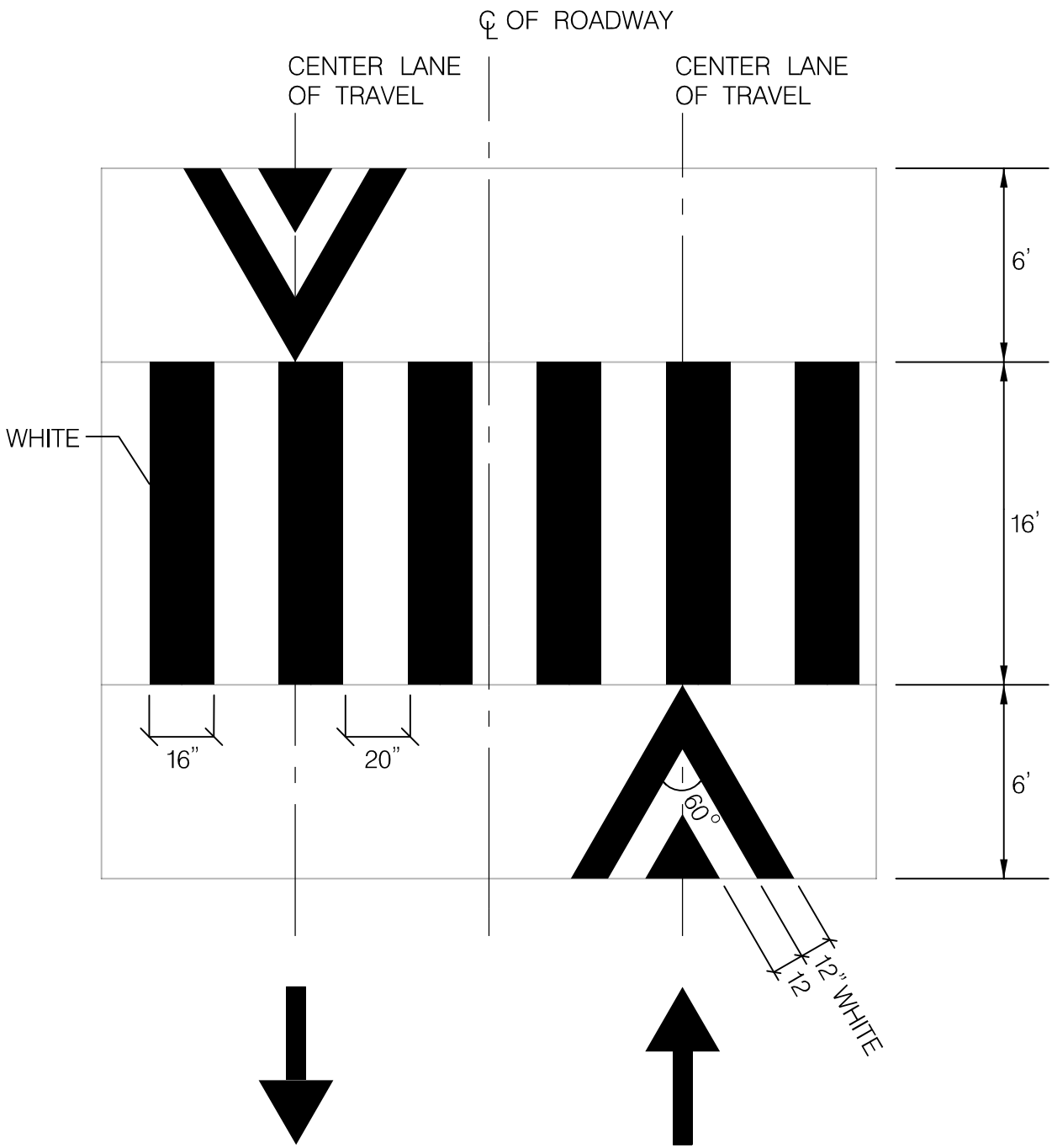
R:\2017\41 CapitalCrescent Trail\_MNCPPC\_\$148(DWG)30% Plans\p0E-r002\_CCT.dgnPLOTTED BY: seller -



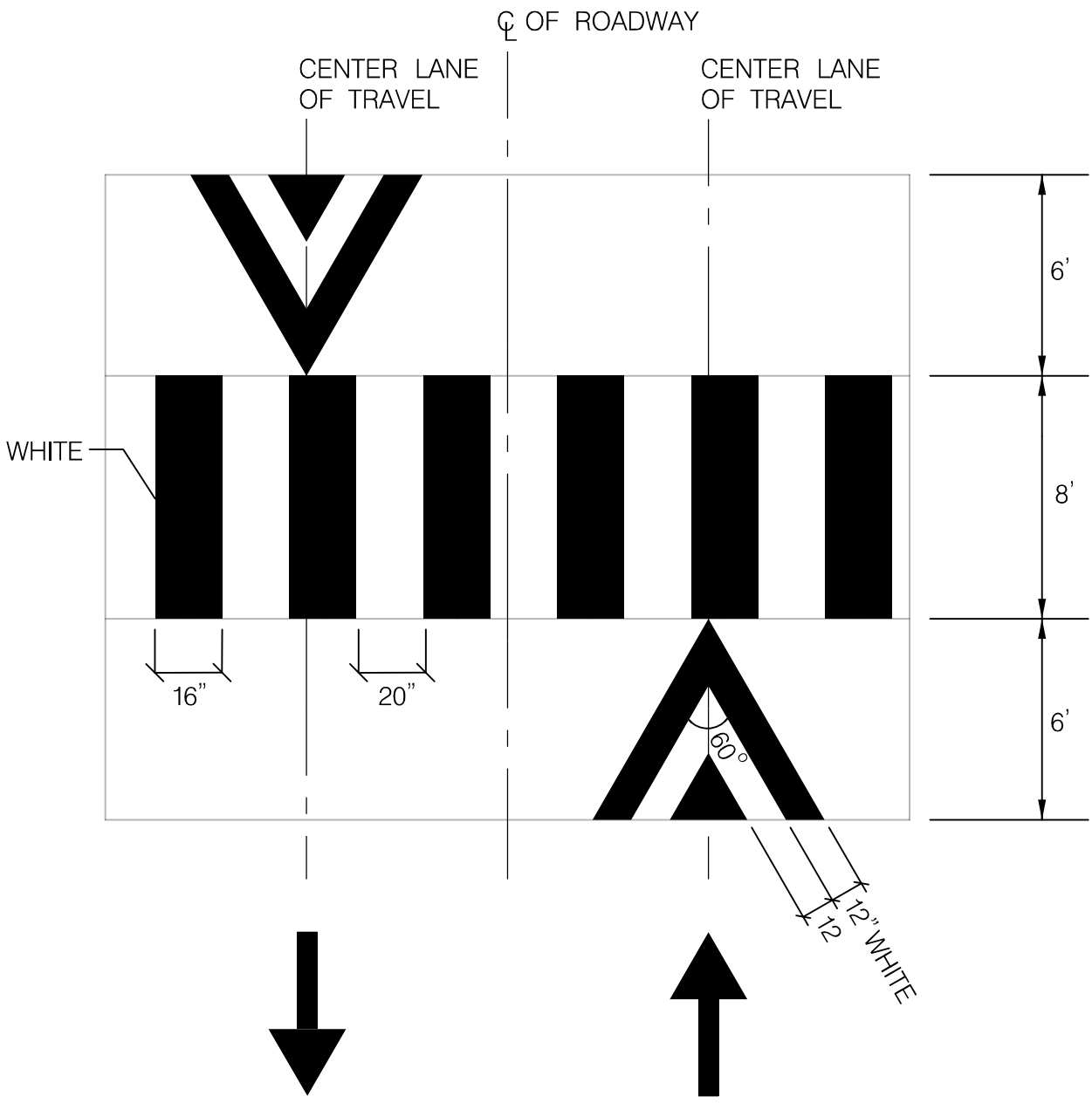
DETAIL 'A' - CROSSWALK  
N.T.S.



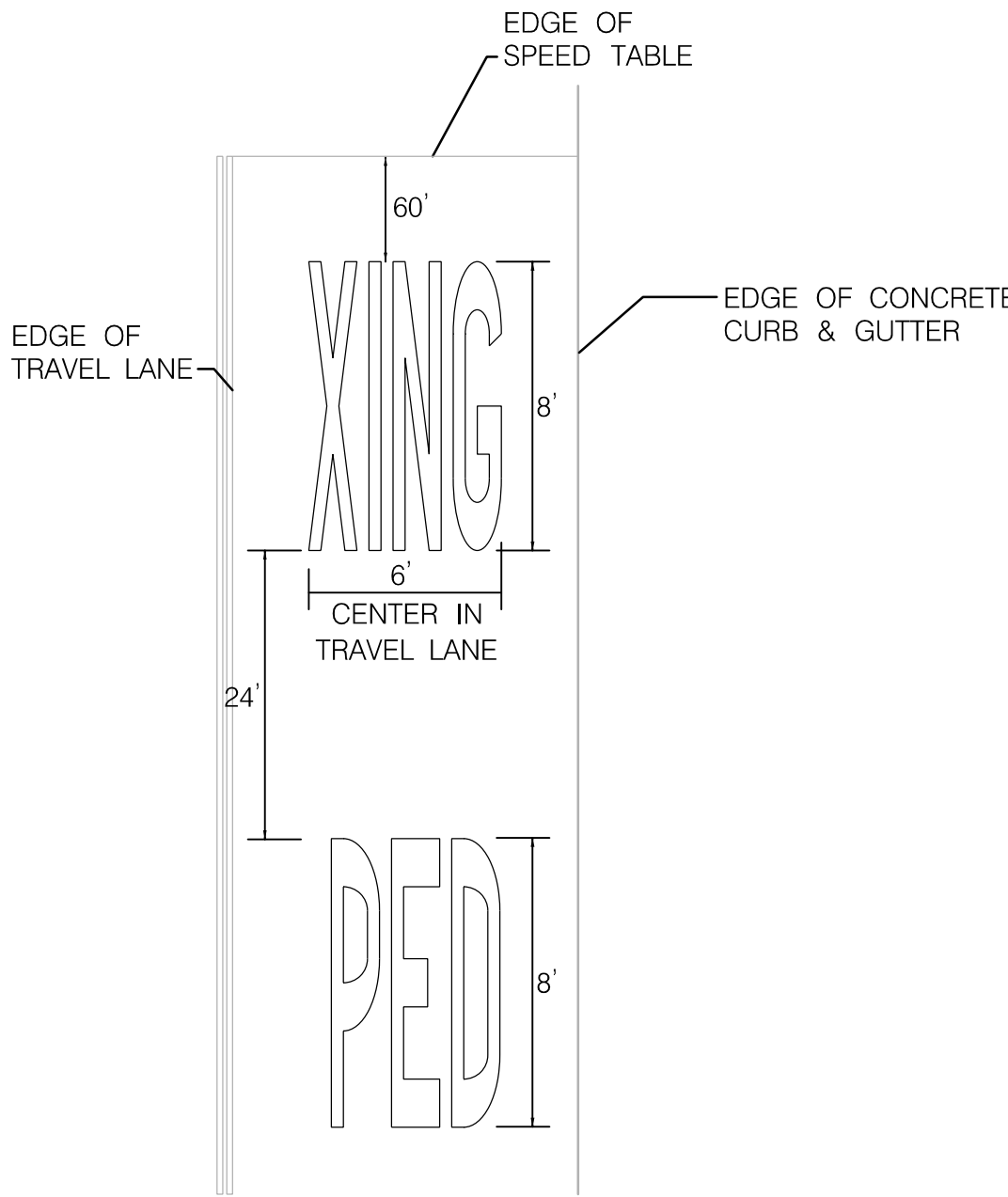
DETAIL 'B' - CROSSWALK  
N.T.S.



DETAIL 'C' - SPEED TABLE MARKINGS  
N.T.S.



DETAIL 'D' - SPEED TABLE MARKINGS  
N.T.S.

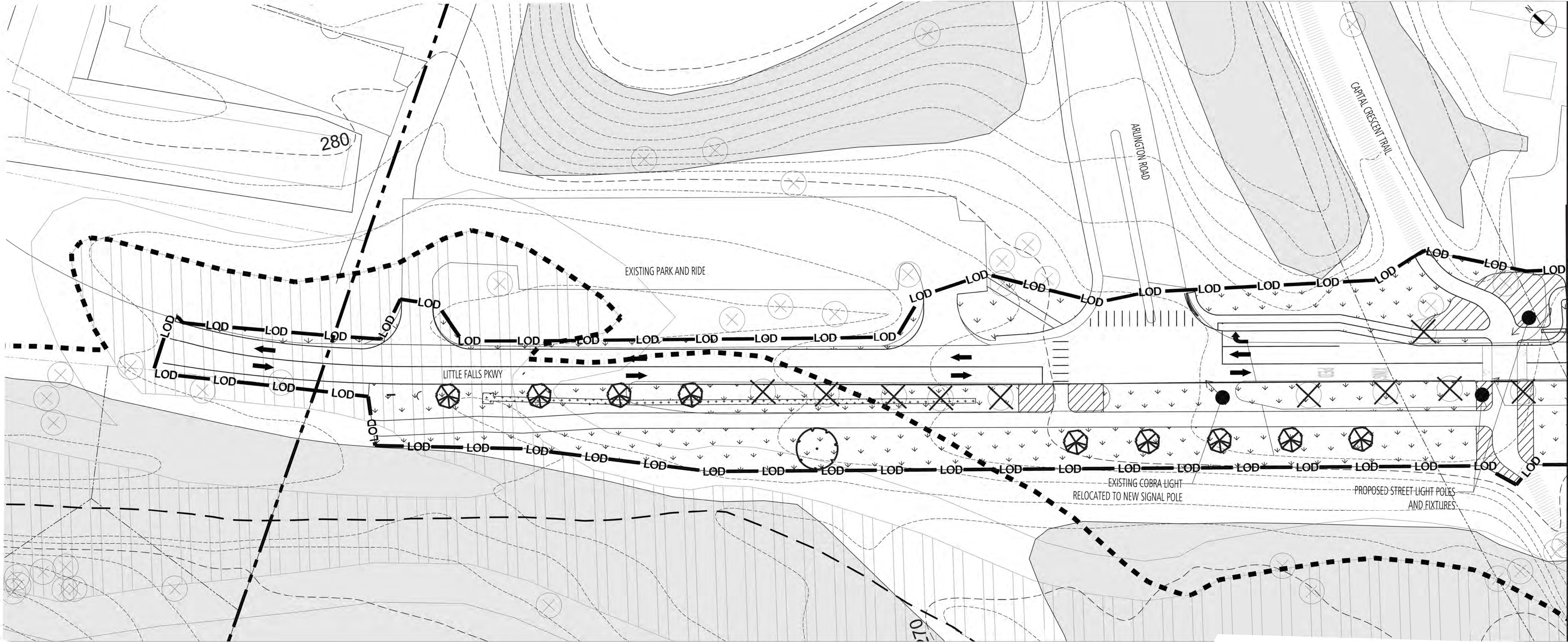


DETAIL 'E' - PAVEMENT MARKING TEXT  
N.T.S.

Sabra & Associates, Inc.			DESIGN		<div>Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.</div> <div>License No. _____</div> <div>Expiration Date _____</div> <div>PROFESSIONAL STAMP</div> <div><div>The Maryland-National Capital Park and Planning Commission</div><div>Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535</div></div>	REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____		<div>Signing and Marking Details</div> <div>Capital Crescent Trail</div> <div>SCALE: N/A</div>	<div>DWG. # <u>3</u> of <u>3</u></div> <div>SHT. # <u>21</u> of <u>24</u></div>
Designer's Name			<div>Landscape Architect</div> <div>Date</div> <div>Checked By:</div> <div>Architect</div> <div>Date</div> <div>Checked By:</div> <div>Engineer</div> <div>Date</div> <div>Checked By:</div> <div>Drawn By</div> <div>Date</div> <div>Checked By:</div>	REVISIONS							
7055 Samuel Morse Drive, #100				Rev. No.		Date	Description				
Address											
Columbia, MD 21046											
City/State/Zip											
(443) 741-3500											
Telephone Number											



NOTE:  
1. TREES LOCATED IN THE EXISTING MEDIAN ARE ALL RELATIVELY IMMATURE AND ARE RECOMMENDED FOR RELOCATION ON SITE WITH LITTLE TO NO HEALTH IMPACT ANTICIPATED.



**LEGEND**

- PROPOSED STREET LIGHT
- PROPERTY LINE
- EXISTING TREE
- EXISTING FOREST COVER
- STREAM
- STREAM BUFFER
- 100 YEAR FLOODPLAIN & BLR
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- SOIL LINE
- WETLAND
- EXISTING TRAIL
- LOD LIMIT OF DISTURBANCE
- PROPOSED ROADWAY
- EXISTING TREE TO BE REMOVED
- PROPOSED PERENNIAL PLANTINGS
- PROPOSED TURFGRASS SOD
- PROPOSED SWM FACILITY (ORNAMENTAL GRASS PLANTINGS)
- PROPOSED LARGE CANOPY TREE
- PROPOSED SMALL/MEDIUM CANOPY TREE



PLANT SCHEDULE (This Sheet Only)							
Key	Quantity	Botanical Name	Common Name	Size	Root	Spacing/	Comments
Shade Tree Species (Overstory)							
ST	1			2" Cal.	B&B / CG		
Ornamental Tree Species (Understory)							
OT	10			5' Ht.	B&B / CG	Multi-stem (3 or 5)	
Perennial Beds							
PB	134	Perennial / Planting Beds (SY)					
Stormwater Management							
SWM	36	SWM Planting Zone (SY)					
Seed Mixes and Treatment							
TURF	1,391	Turfgrass Sod Establishment (SY)					
Misc.							
MULCH	178	Mulch - 3" Depth (SY)					

FINAL SCANNED:

PLAN SCANNED:

PARK CODE: NA

STATIMES  
PLOTTED BY: SUBSERVANCES

MATCHLINE SEE SHT. #23

SFILES

Floura Teeter

Designer's Name

800 North Charles Street, Ste. 300

Address

Baltimore, MD 21201

City/State/Zip

(410) 528-8395

Telephone Number

DESIGN

Landscape Architect

Date

Checked By:

Architect

Date

Checked By:

MM

04/2019

MM

Engineer

Date

Checked By:

AL

04/2019

MM

Drawn By

Date

Checked By:

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. \_\_\_\_\_

Expiration Date \_\_\_\_\_

PROFESSIONAL STAMP

The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks

9500 Brunett Avenue

Silver Spring, Maryland 20901

(301) 495-2535

REVIEW AND APPROVAL

Project Manager

Date

Construction Manager

Date

Park Manager

Date

ISSUED FOR PROCUREMENT ON \_\_\_\_\_

REVISIONS

Rev. No.

Date

Description

Landscaping Plan

Capital Crescent Trail

SCALE: 1"=20'

DWG. # 1 of 3

SHT. # 22 of 24




1. TREES LOCATED IN THE EXISTING MEDIAN ARE ALL RELATIVELY IMMATURE AND ARE RECOMMENDED FOR RELOCATION ON SITE WITH LITTLE TO NO HEALTH IMPACT ANTICIPATED.



Age Group	Number of People
0-15	10
15-30	20
30-45	30
45-60	40

PLANT SCHEDULE (This Sheet Only)						
Key	Quantity	Botanical Name	Common Name	Size	Root	Spacing/ Comments
<b>Shade Tree Species (Overstory)</b>						
ST	1			2" Cal.	B&B / CG	
<b>Ornamental Tree Species (Understory)</b>						
OT	5			5' Ht.	B&B / CG	Multi-stem (3 or 5)
<b>Perennial Beds</b>						
PB	168	Perennial / Planting Beds (SY)				
<b>Stormwater Management</b>						
SWM	0	SWM Planting Zone (SY)				
<b>Seed Mixes and Treatment</b>						
TURF	1,041	Turfgrass Sod Establishment (SY)				
<b>Misc.</b>						
MULCH	172	Mulch - 3" Depth (SY)				

	<b>DESIGN</b>		<b>Professional Certification.</b> I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  License No. _____  Expiration Date _____		<p>The Maryland-National Capital Park and Planning Commission</p> <p>Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535</p>	<table border="1"> <thead> <tr> <th colspan="2">REVIEW AND APPROVAL</th> </tr> </thead> <tbody> <tr> <td>Project Manager</td> <td>Date</td> </tr> <tr> <td>Construction Manager</td> <td>Date</td> </tr> <tr> <td>Park Manager</td> <td>Date</td> </tr> </tbody> </table>	REVIEW AND APPROVAL		Project Manager	Date	Construction Manager	Date	Park Manager	Date	<table border="1"> <thead> <tr> <th colspan="3">ISSUED FOR PROCUREMENT ON _____</th> </tr> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>Rev. No.</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	ISSUED FOR PROCUREMENT ON _____			REVISIONS			Rev. No.	Date	Description																<h1 style="text-align: center;">Landscaping Plan</h1> <h2 style="text-align: center;">Capital Crescent Trail</h2> <div style="text-align: right; margin-top: 20px;">           DWG. # <u>  2  </u> of <u>  3  </u>             SHT. # <u> 23 </u> of <u> 24 </u> </div> <p style="text-align: right; margin-top: 20px;">SCALE: 1"=20'</p>
REVIEW AND APPROVAL																																								
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800 North Charles Street, Ste. 300	Landscape Architect	Date _____ Checked By: _____																																						
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Baltimore, MD 21201	MM	04/2019																																						
City/State/Zip	Engineer	Date _____ Checked By: _____																																						
(410) 528-8395	AL	04/2019 MM																																						
Telephone Number	Drawn By	Date _____ Checked By: _____																																						




1 TREE PLANTING DETAIL d-tree\_planting.dwg  
SECTION SCALE: 1/2" = 1'-0"

2 PERENNIAL PLANTING DETAIL d-grndcover\_planting.dwg  
SECTION SCALE: 1/2" = 1'-0"

3 TURFGRASS SOD DETAIL d-lawn detail sod.dwg  
SECTION SCALE: 1"=1'-0"

4 TREE PROTECTION FENCE - MONTGOMERY COUNTY d-TPF.dwg  
DETAIL SCALE: 1" = 1'-0"

MASTER PLANT SCHEDULE						
Key	Quantity	Botanical Name	Common Name	Size	Root	Spacing/ Comments
<b>Shade Tree Species (Overstory)</b>						
ST	2			2" Cal.	B&B / CG	
<b>Ornamental Tree Species (Understory)</b>						
OT	15			5' Ht.	B&B / CG	Multi-stem (3 or 5)
<b>Perennial Beds</b>						
PB	302	Perennial / Planting Beds (SY)				
<b>Stormwater Management</b>						
SWM	36	SWM Planting Zone (SY)				
<b>Seed Mixes and Treatment</b>						
TURF	2,432	Turfgrass Sod Establishment (SY)				
<b>Misc.</b>						
MULCH	350	Mulch - 3" Depth (SY)				

Floura Teeter	DESIGN		<b>Professional Certification.</b> I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.		
Designer's Name					
800 North Charles St., Ste. 300	Landscape Architect	Date			Checked By:
Address	Architect	Date			Checked By:
Baltimore, MD 21201	MM	04/2019			License No. _____
City/State/Zip	Engineer	Date			Checked By:
(410) 528-8395	AL	04/2019	MM	Expiration Date _____	
Telephone Number	Drawn By	Date	Checked By:		



**The Maryland-National Capital  
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		REVISIONS		
		Rev. No.	Date	Description
Project Manager	Date			
Construction Manager	Date			
Park Manager	Date			

# Landscape Details

## Capital Crescent Trail

SCALE: AS SHOWN

DWG. # 3 of 3

SHT. # 24 of 24