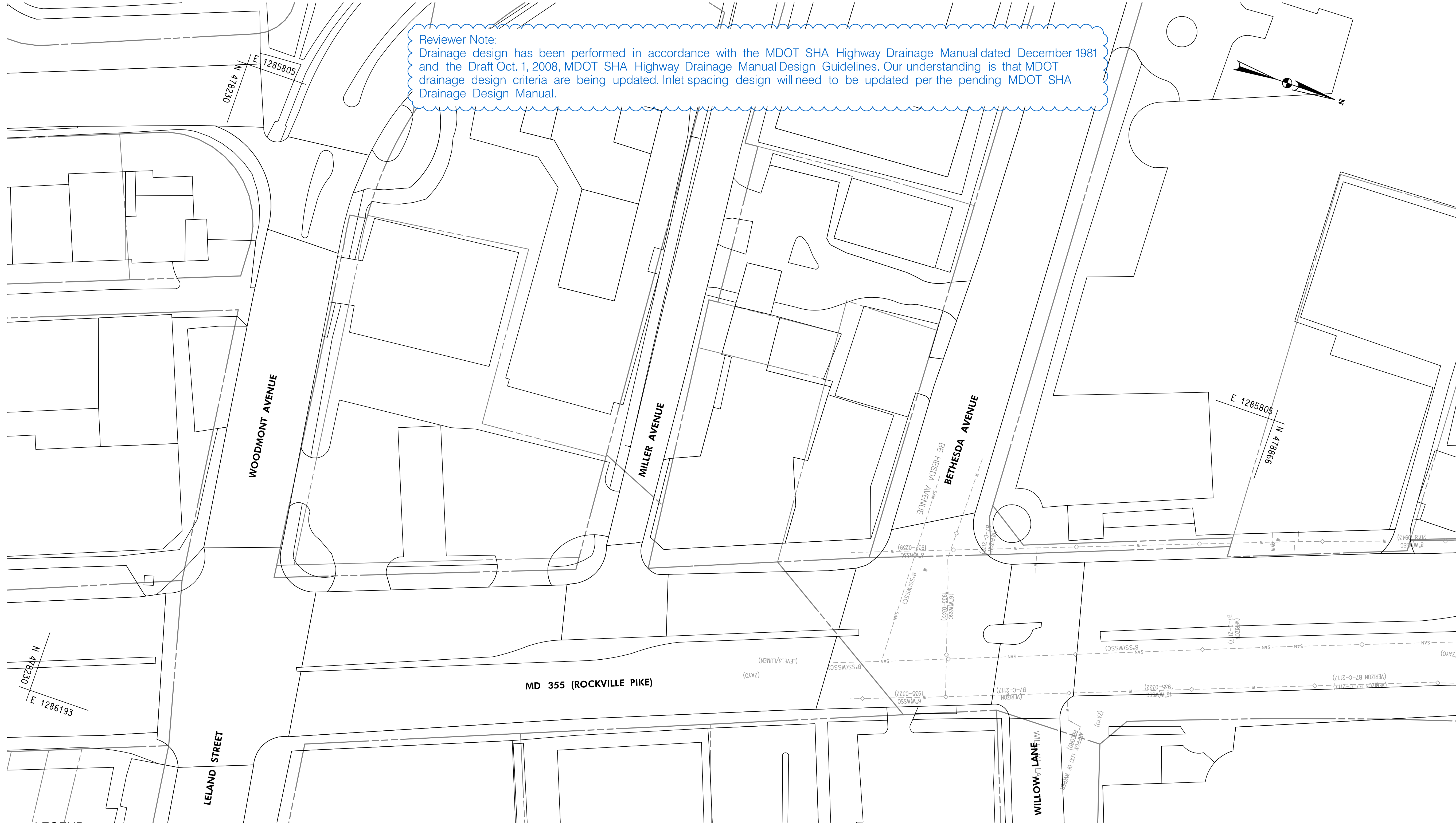
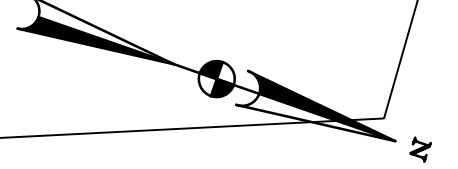


Reviewer Note:
 Drainage design has been performed in accordance with the MDOT SHA Highway Drainage Manual dated December 1981 and the Draft Oct. 1, 2008, MDOT SHA Highway Drainage Manual Design Guidelines. Our understanding is that MDOT drainage design criteria are being updated. Inlet spacing design will need to be updated per the pending MDOT SHA Drainage Design Manual.



MATCH LINE - SEE DD - 02

LEGEND

- | | | | |
|--|---|--|---|
| | PROPOSED DRAINAGE STRUCTURE | | PROPOSED DRAINAGE PIPE |
| | EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM | | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
| | EXISTING DRAINAGE STRUCTURE | | EXISTING DRAINAGE PIPE |
| | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL | | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL |
| | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED | | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED |

GENERAL STORM DRAIN LABEL NOTES:
 1. PROPOSED STORM DRAIN SIZES HAVE BEEN ESTIMATED AT THIS PHASE AND ARE SUBJECT TO CHANGE WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED.
 2. ATTEMPTS HAVE BEEN MADE TO UTILIZE EXISTING STORM DRAIN PIPES TO THE EXTENT PRACTICAL.
 3. WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED IT MAY BE DETERMINED THAT THE EXISTING STORM DRAIN PIPE DOES NOT FUNCTION ADEQUATELY AND MAY NEED TO BE REPLACED.
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PROFESSIONAL CERTIFICATION:
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 LICENSE NO: _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

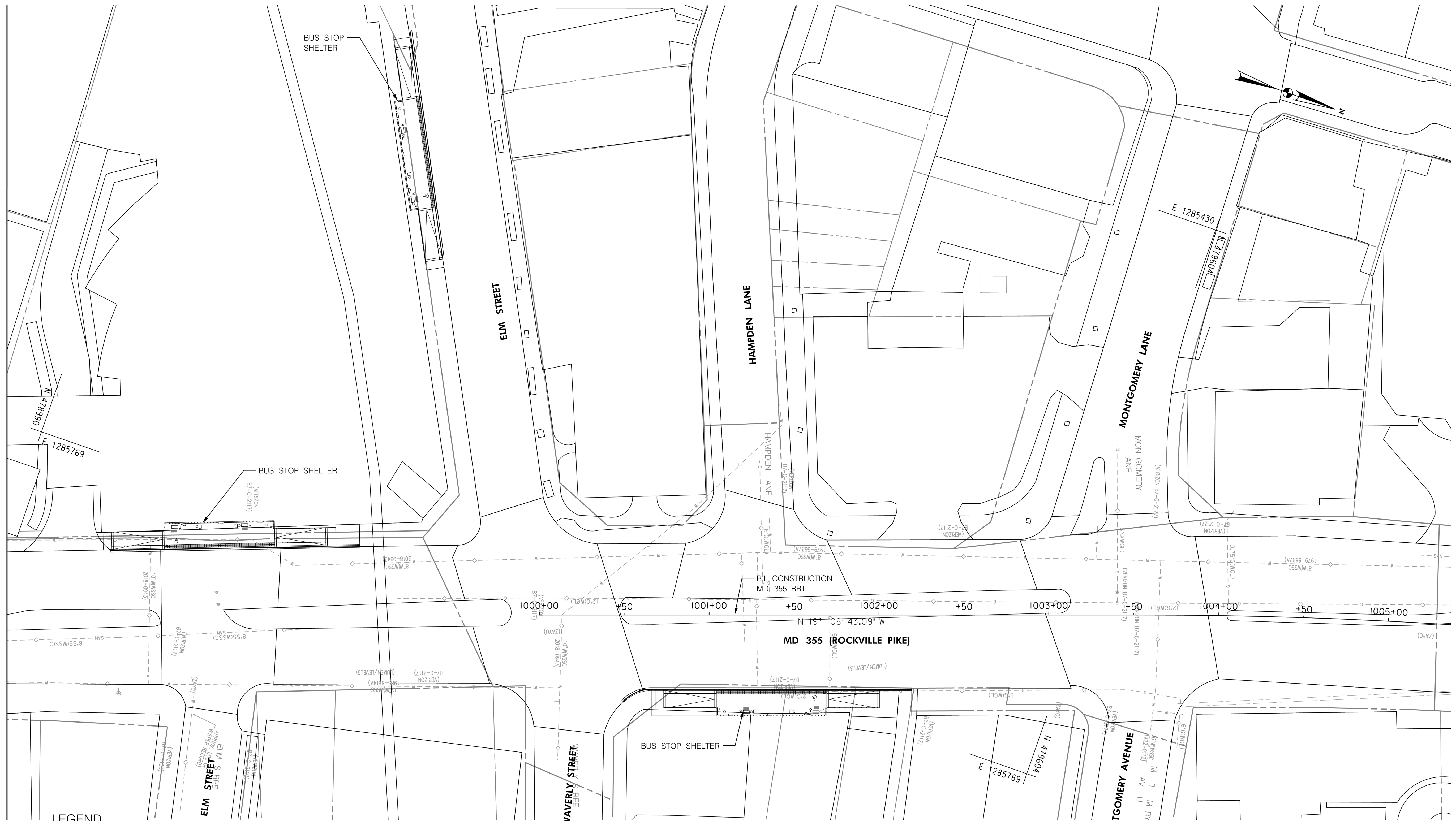
RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering
 Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 1

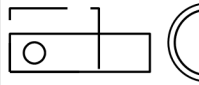
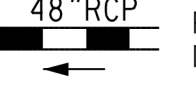



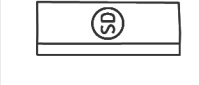
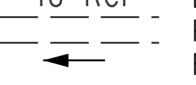
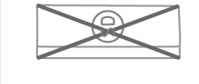

SCALE : 1" = 30'
 DATE : DECEMBER 2022
 Project No. : 502005 SHEET 405 of 887

DD-01

MATCH LINE - SEE DD - 01



LEGEND

-  PROPOSED DRAINAGE STRUCTURE
-  PROPOSED DRAINAGE PIPE
-  ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
-  EXISTING DRAINAGE STRUCTURE
-  EXISTING DRAINAGE PIPE
-  EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
-  EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
-  EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
-  EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

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 LICENSE NO: _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering

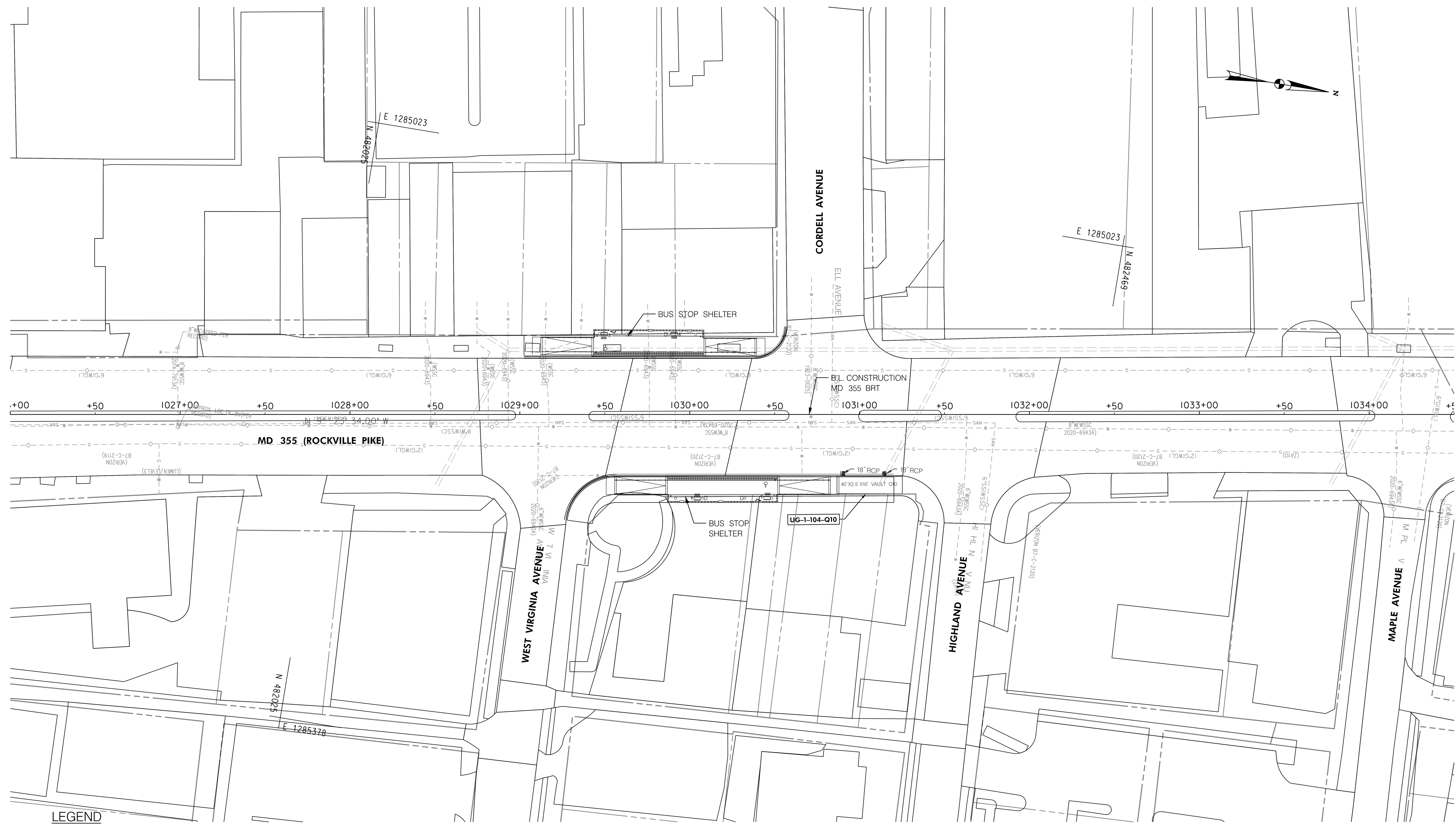
Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 1

SCALE : 1" = 30'
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 406 of 887

DD-02



LEGEND

	PROPOSED DRAINAGE STRUCTURE		PROPOSED DRAINAGE PIPE
	EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM		ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
	EXISTING DRAINAGE STRUCTURE		EXISTING DRAINAGE PIPE
	EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL		EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
	EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED		EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section _____ Date _____

APPROVED

SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)

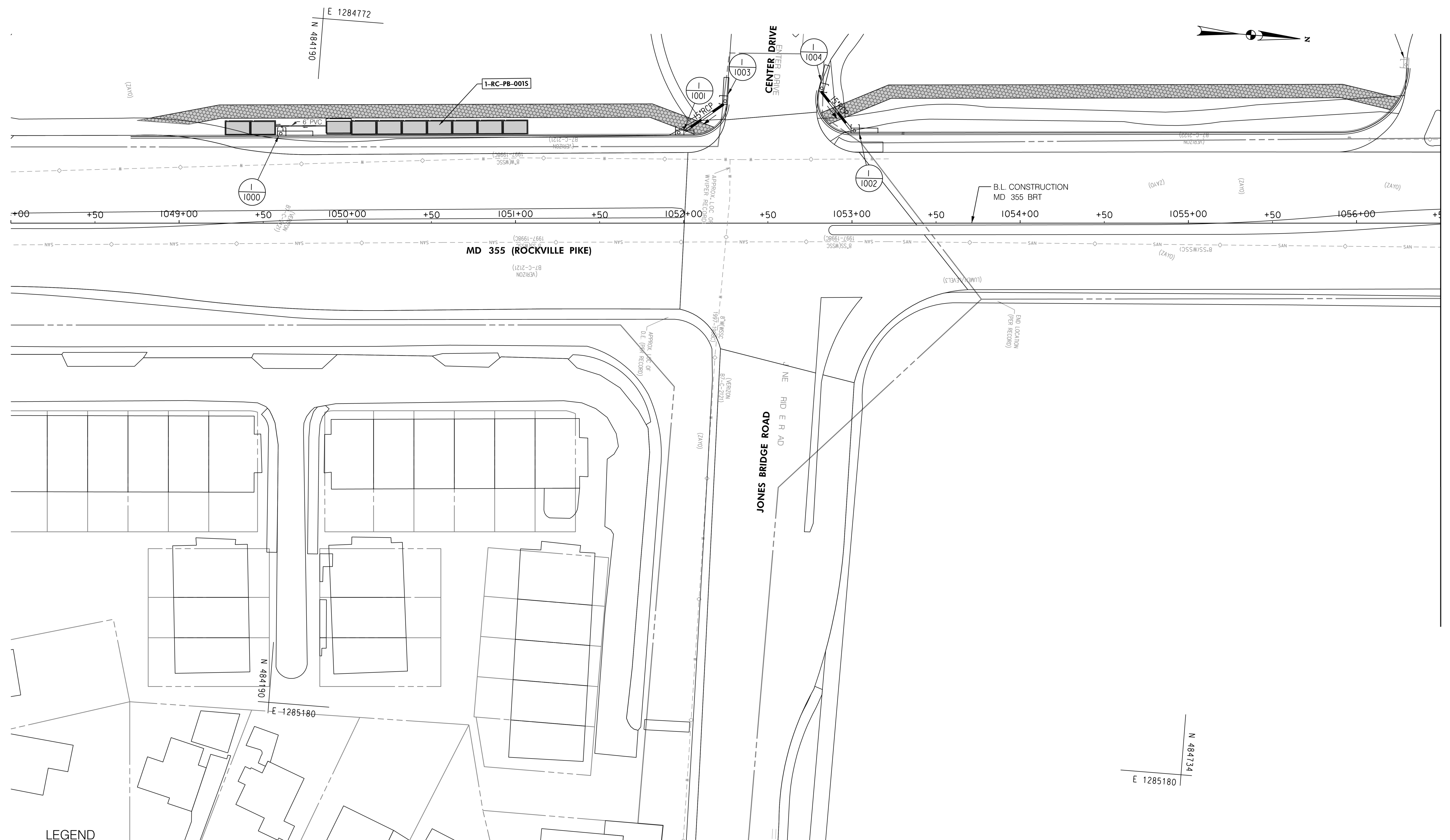
DRAINAGE PLAN
 SEGMENT 1

SCALE : 1" = 30'

DATE : DECEMBER 2022

Project No. : 502005 SHEET 407 of 887

DD-03



MATCH LINE - SEE DD - 05 STA. 1056 + 50.00

LEGEND

- | | | | |
|--|---|--|---|
| | PROPOSED DRAINAGE STRUCTURE | | PROPOSED DRAINAGE PIPE |
| | EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM | | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
| | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL | | EXISTING DRAINAGE PIPE |
| | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED | | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL |
| | | | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED |

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 LICENSE NO. _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

SEE TITLE SHEET FOR SIGNATURES _____ Date _____
 Chief, Design Section

APPROVED

SEE TITLE SHEET FOR SIGNATURES _____ Date _____
 Chief, Division of Transportation Engineering

Designed by: _____ Drawn by: _____ Checked by: _____

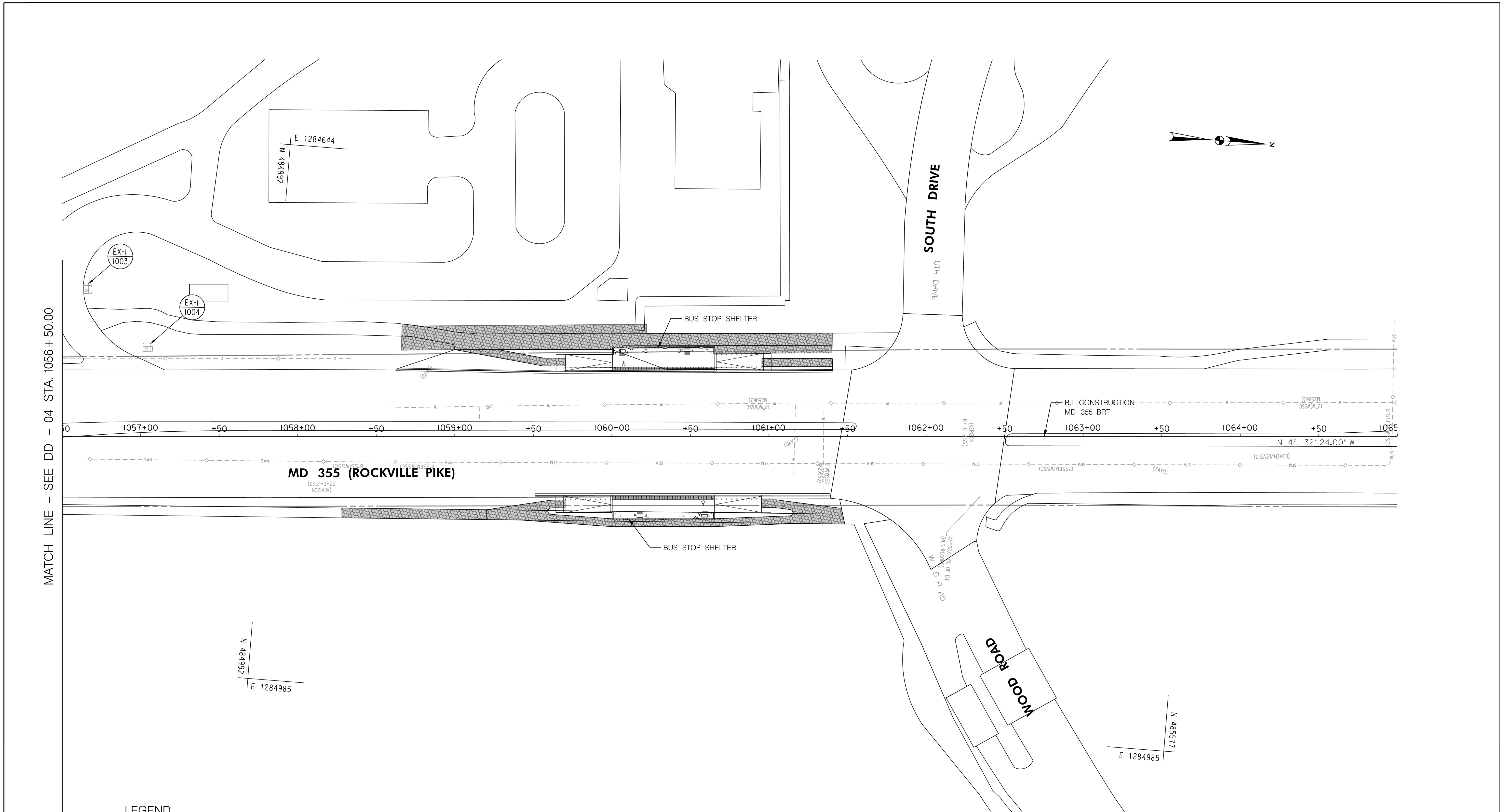
MD 355 BUS RAPID TRANSIT (BRT)

DRAINAGE PLAN
 SEGMENT 1

SCALE : 1" = 30'
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 408 of 887

DD-04



MATCH LINE - SEE DD - 04 STA. 1056+50.00

LEGEND

- | | | | |
|--|---|--|---|
| | PROPOSED DRAINAGE STRUCTURE | | PROPOSED DRAINAGE PIPE |
| | EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM | | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
| | EXISTING DRAINAGE STRUCTURE | | EXISTING DRAINAGE PIPE |
| | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL | | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL |
| | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED | | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED |

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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
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 Chief, Design Section
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES _____ Date _____
 Chief, Division of Transportation Engineering
 Designed by: _____ Drawn by: _____ Checked by: _____

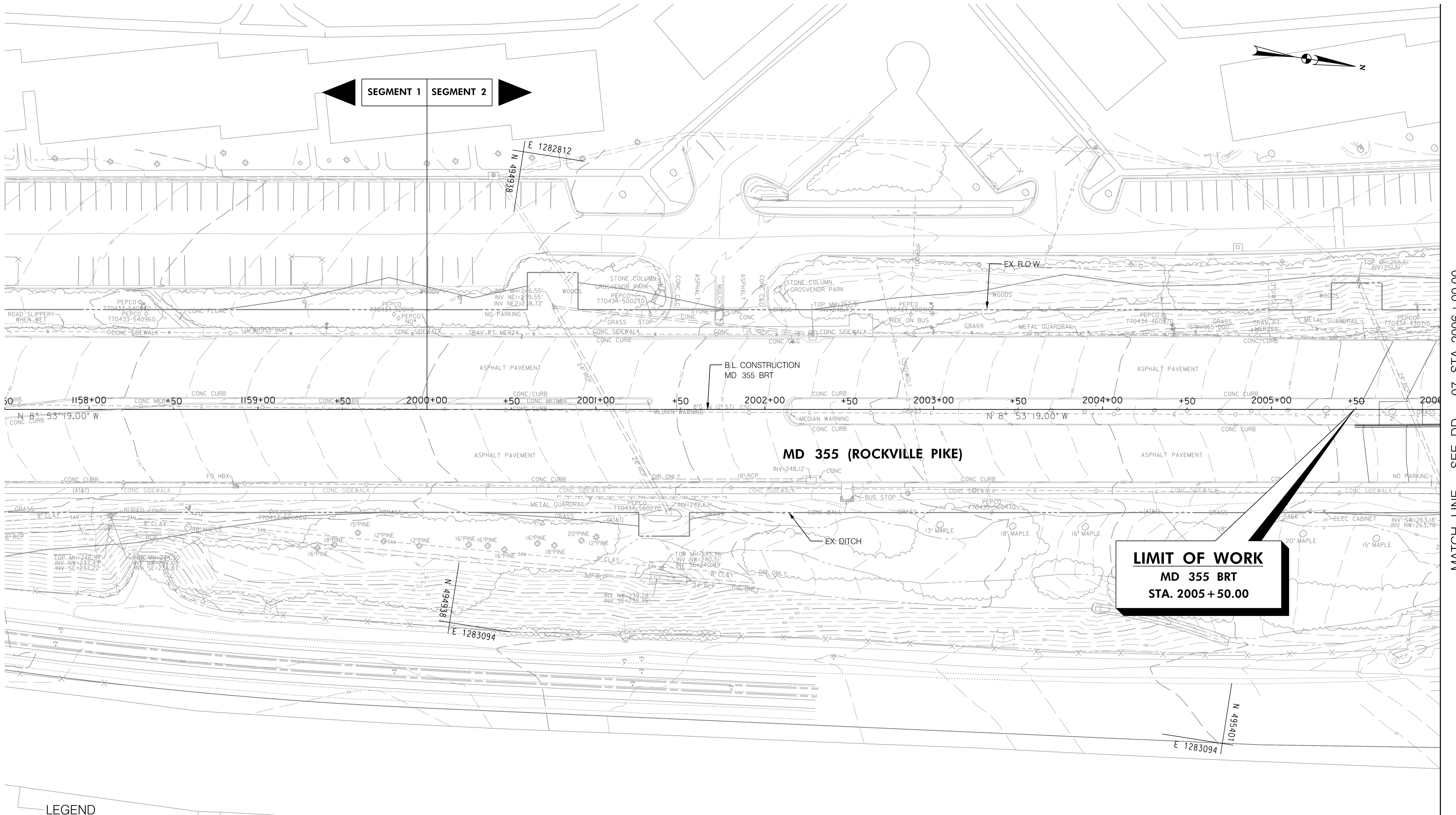
DD-05

MD 355 BUS RAPID TRANSIT (BRT)

DRAINAGE PLAN
 SEGMENT 1

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 409 of 887



MATCH LINE - SEE DD - 07 STA. 2006 + 00.00

LEGEND

- | | | | |
|--|---|--|---|
| | PROPOSED DRAINAGE STRUCTURE | | PROPOSED DRAINAGE PIPE |
| | EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM | | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
| | EXISTING DRAINAGE STRUCTURE | | EXISTING DRAINAGE PIPE |
| | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL | | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL |
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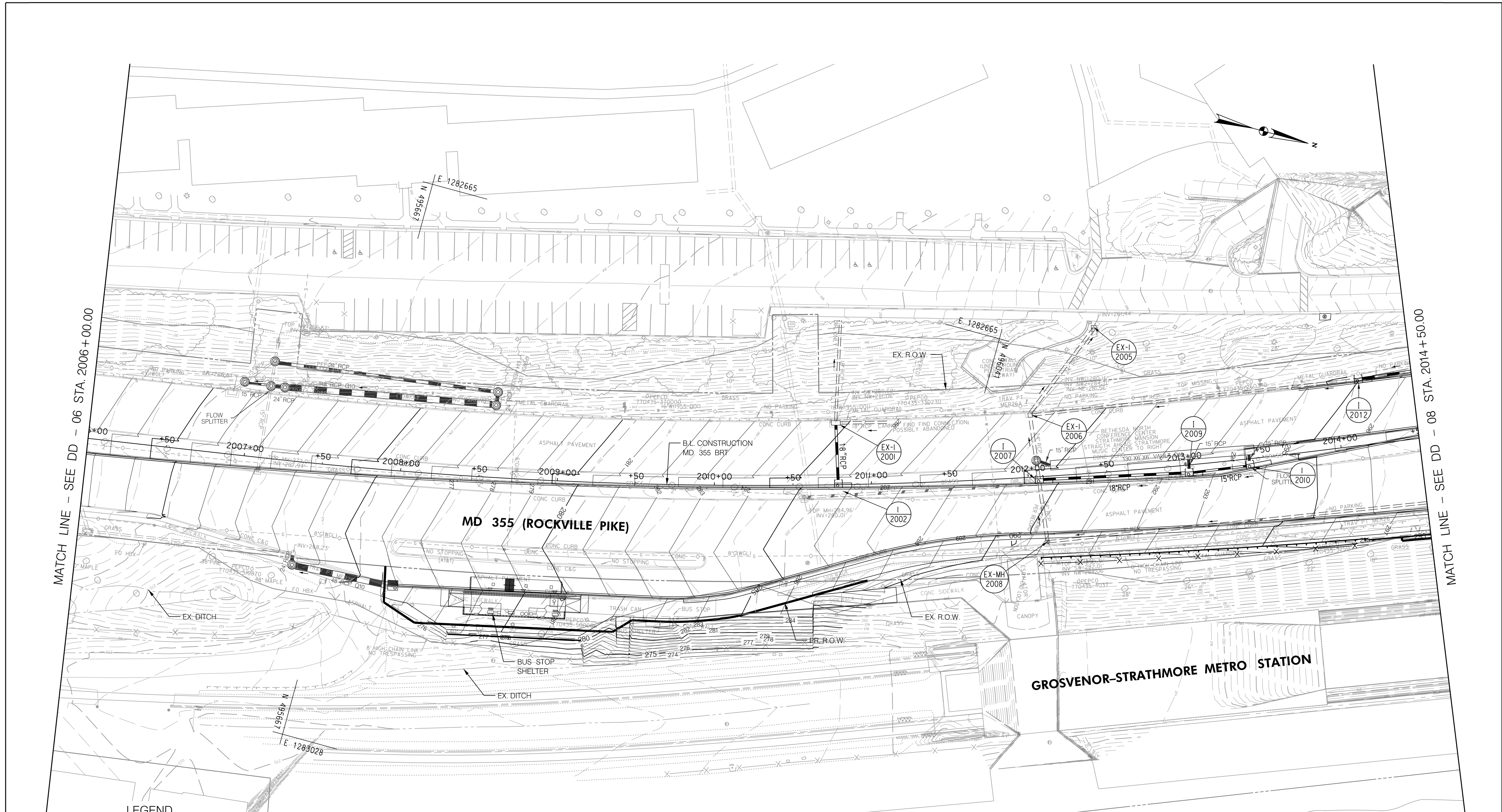
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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES _____ Date _____
 Chief, Design Section
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES _____ Date _____
 Chief, Division of Transportation Engineering
 Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 1 - SEGMENT 2
 SCALE : 1" = 30'
 DATE : DECEMBER 2022
 Project No. : 502005 SHEET 410 of 887



MATCH LINE - SEE DD - 06 STA. 2006+00.00

MATCH LINE - SEE DD - 08 STA. 2014+50.00

LEGEND

- | | | | |
|--|---|--|---|
| | PROPOSED DRAINAGE STRUCTURE | | |
| | PROPOSED 48" RCP DRAINAGE PIPE | | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
| | EXISTING DRAINAGE STRUCTURE | | EXISTING DRAINAGE PIPE |
| | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL | | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL |
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NO.	REVISION	DATE	BY

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 Chief, Design Section
 Date _____

APPROVED
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 Chief, Division of Transportation Engineering
 Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)

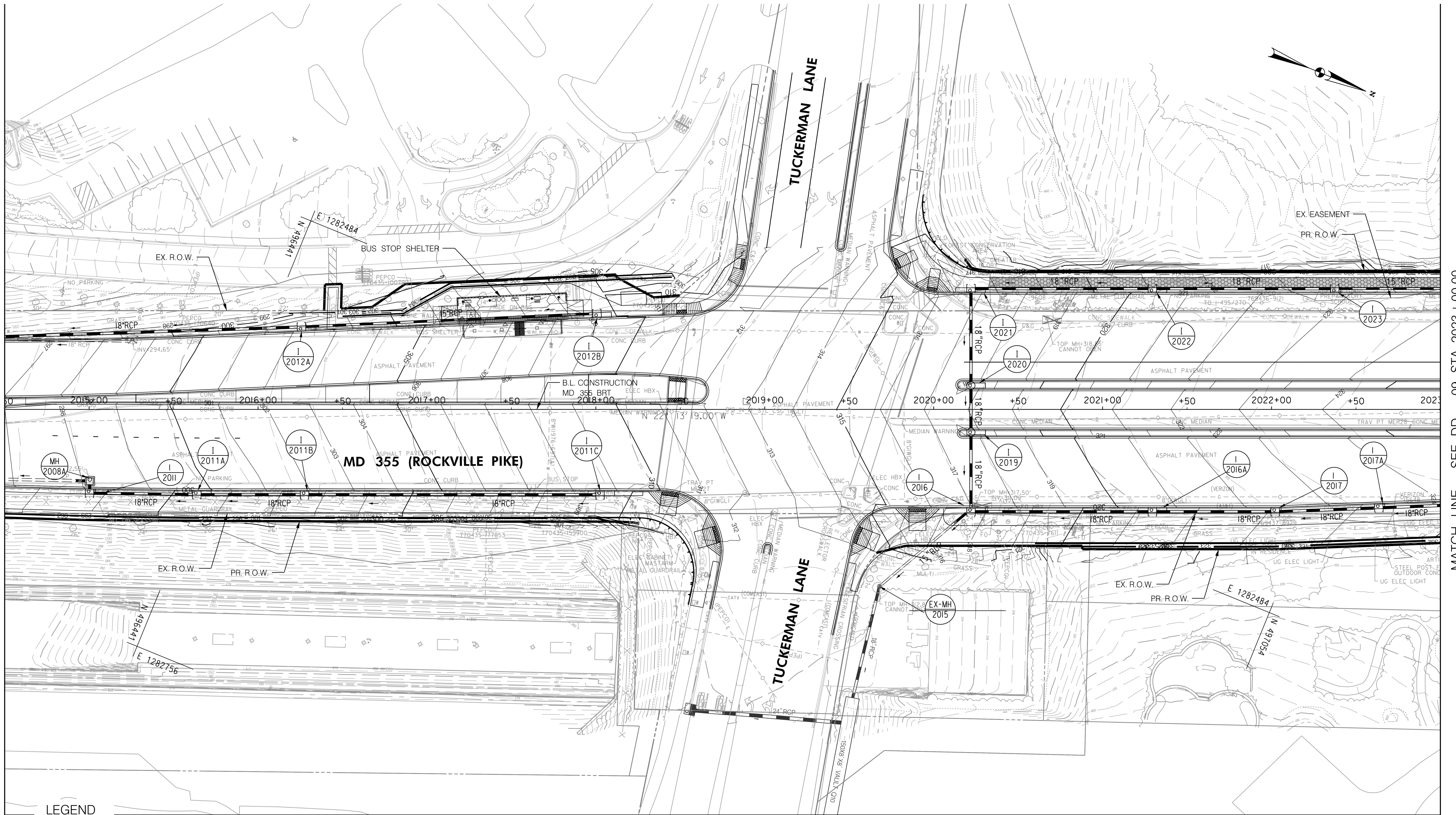
DRAINAGE PLAN
 SEGMENT 2

SCALE : 1" = 30'
 DATE : DECEMBER 2022

Project No. : 502005
 SHEET 411 of 887

DD-07

MATCH LINE - SEE DD - 07 STA. 2014+50.00



MATCH LINE - SEE DD - 09 STA. 2023+00.00

LEGEND

	PROPOSED DRAINAGE STRUCTURE		PROPOSED DRAINAGE PIPE
	EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM		ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
	EXISTING DRAINAGE STRUCTURE		EXISTING DRAINAGE PIPE
	EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL		EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
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MATCH LINE - SEE DD - 08A



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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
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 GAITHERSBURG, MARYLAND

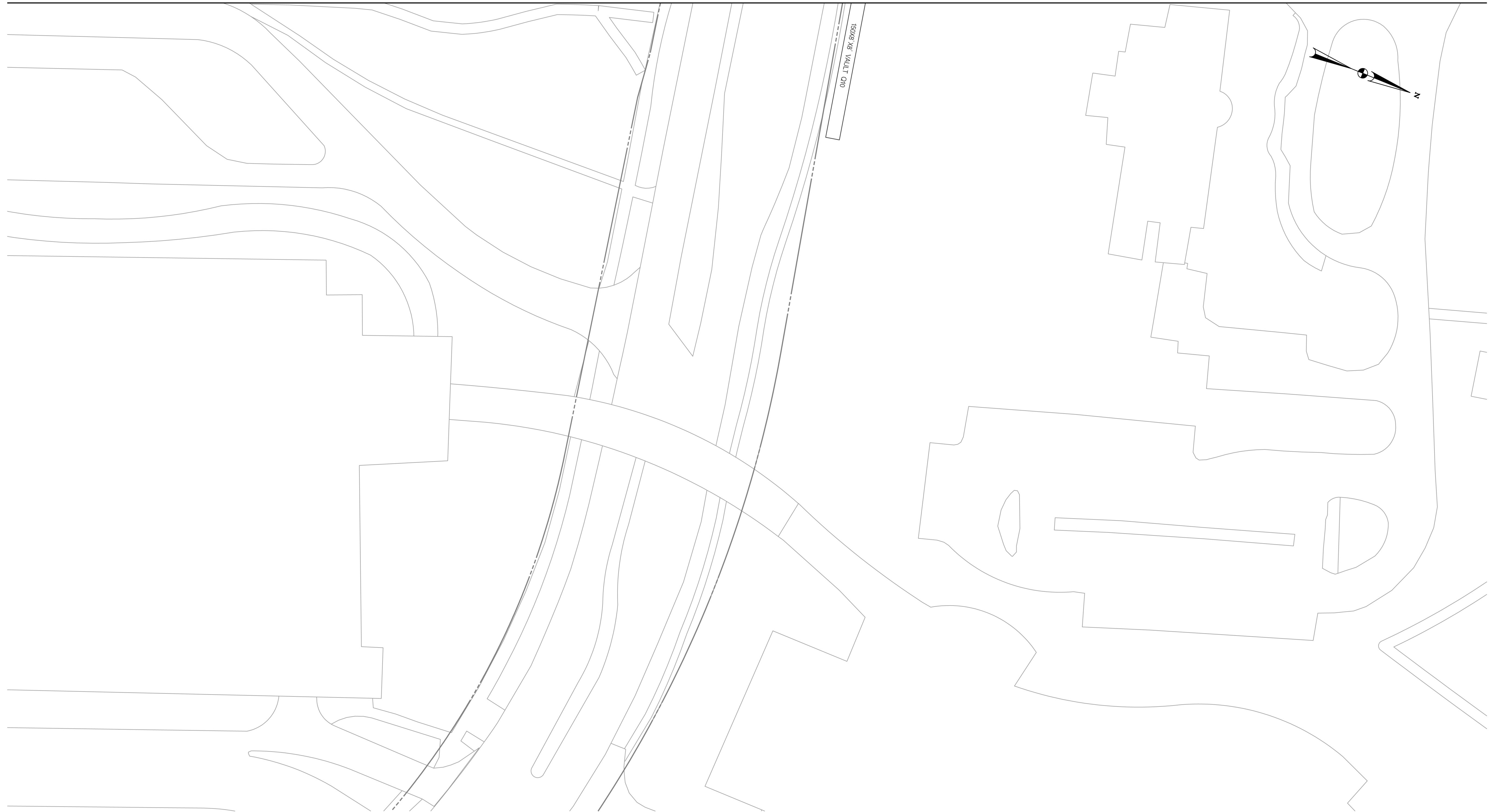
RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering
 Design by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 2

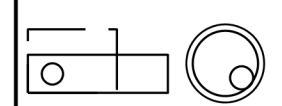






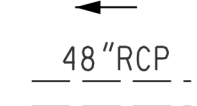

SCALE : 1" = 30'
 DATE : DECEMBER 2022
 Project No. : 502005 SHEET 412 of 887

DD-08

MATCH LINE - SEE DD - 08



LEGEND

- 
PROPOSED DRAINAGE STRUCTURE
- 
EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM
- 
EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- 
EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- 
48" RCP PROPOSED DRAINAGE PIPE
- 
48" RCP (ASSUMED) ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- 
48" RCP EXISTING DRAINAGE PIPE
- 
48" RCP EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- 
EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

SEE TITLE SHEET FOR SIGNATURES _____ Date _____
 Chief, Design Section

APPROVED

SEE TITLE SHEET FOR SIGNATURES _____ Date _____
 Chief, Division of Transportation Engineering

Designed by : _____ Drawn by : _____ Checked by : _____

DD-08A

MD 355 BUS RAPID TRANSIT (BRT)

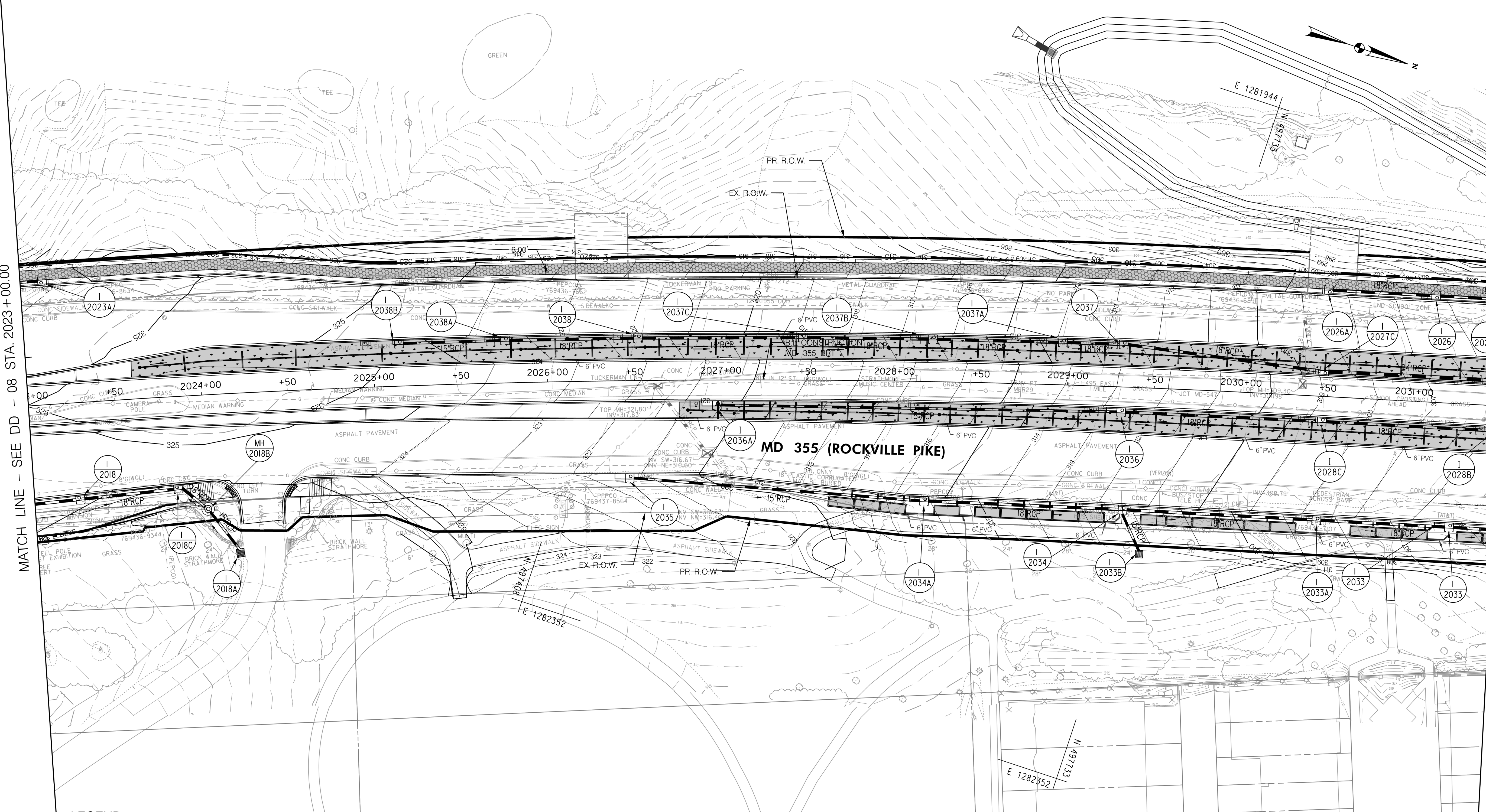
DRAINAGE PLAN
 SEGMENT 2

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 413 of 887

MATCH LINE - SEE DD - 08 STA. 2023+00.00

MATCH LINE - SEE DD - 10 STA. 2031+50.00



LEGEND

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

GENERAL STORM DRAIN LABEL NOTES:
 1. PROPOSED STORM DRAIN SIZES HAVE BEEN ESTIMATED AT THIS PHASE AND ARE SUBJECT TO CHANGE WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED.
 2. ATTEMPTS HAVE BEEN MADE TO UTILIZE EXISTING STORM DRAIN PIPES TO THE EXTENT PRACTICAL.
 3. WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED IT MAY BE DETERMINED THAT THE EXISTING STORM DRAIN PIPE DOES NOT FUNCTION ADEQUATELY AND MAY NEED TO BE REPLACED.
 4. EXISTING STORM DRAIN PIPES AND STRUCTURES TO REMAIN IN PLACE AND ONLINE WILL NEED TO BE INSPECTED AT A LATER PHASE TO DETERMINE THEIR CURRENT CONDITIONS AND MAY NEED TO BE CLEANED, REPAIRED, OR REPLACED.

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 6110 FROST PLACE,
 LAUREL, MARYLAND 20707
 (301) 982-2800
 www.stantec.com

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: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

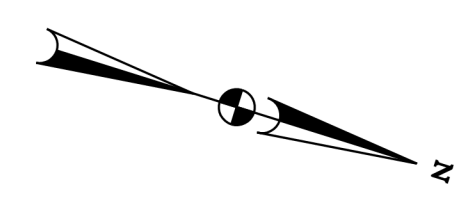
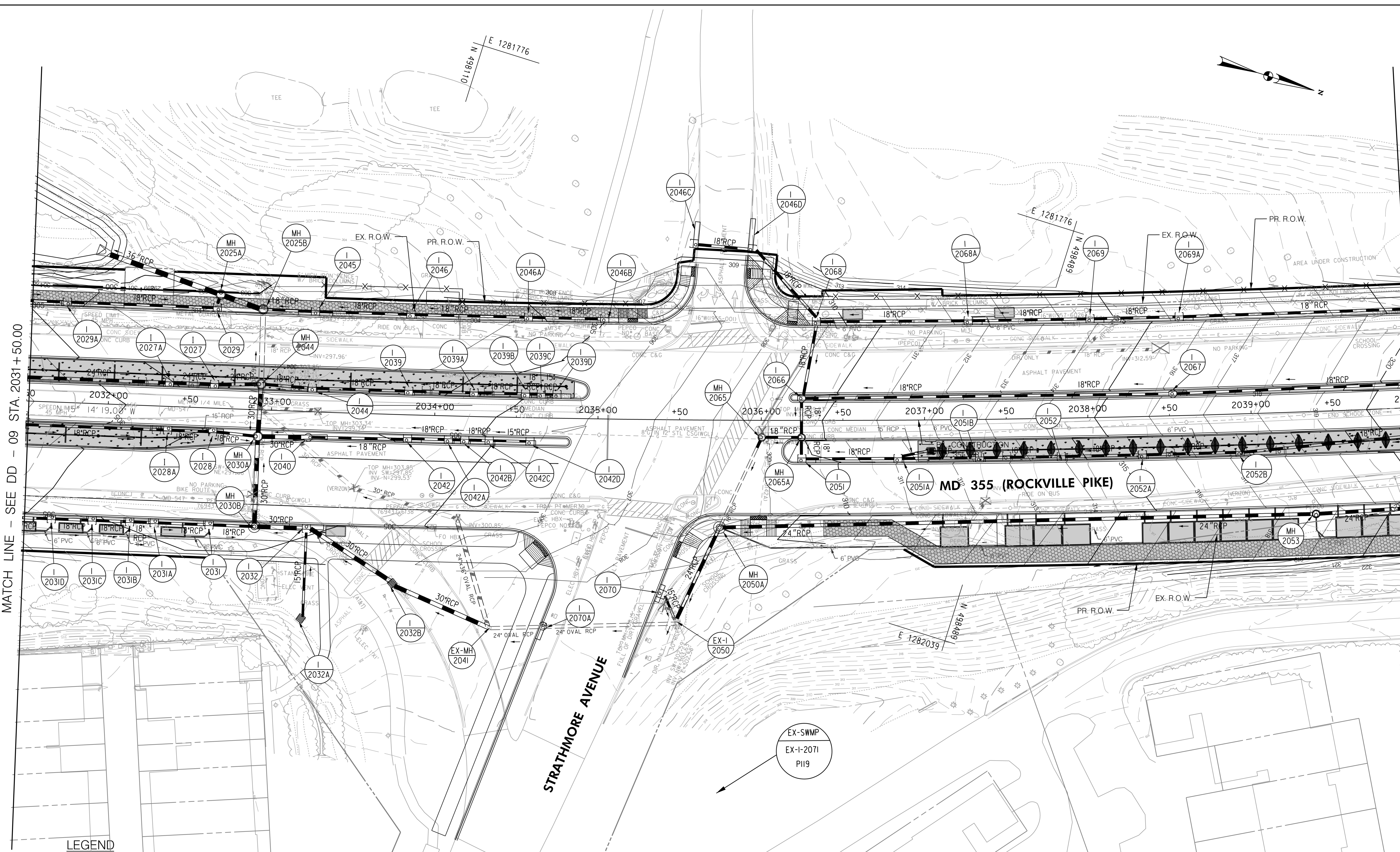
RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section
 Date _____
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering
 Date _____
 Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 2

SCALE : 1" = 30'
 DATE : DECEMBER 2022
 Project No. : 502005
 SHEET 414 of 887

MATCH LINE - SEE DD - 09 STA. 2031 + 50.00

MATCH LINE - SEE DD - 11 STA. 2040 + 00.00



LEGEND

	PROPOSED DRAINAGE STRUCTURE		PROPOSED DRAINAGE PIPE
	EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM		ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
	EXISTING DRAINAGE STRUCTURE		EXISTING DRAINAGE PIPE
	EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL		EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
	EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED		EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

GENERAL STORM DRAIN LABEL NOTES:
 1. PROPOSED STORM DRAIN SIZES HAVE BEEN ESTIMATED AT THIS PHASE AND ARE SUBJECT TO CHANGE WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED.
 2. ATTEMPTS HAVE BEEN MADE TO UTILIZE EXISTING STORM DRAIN PIPES TO THE EXTENT PRACTICAL.
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PROFESSIONAL CERTIFICATION:
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 LICENSE NO. _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering

Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 2

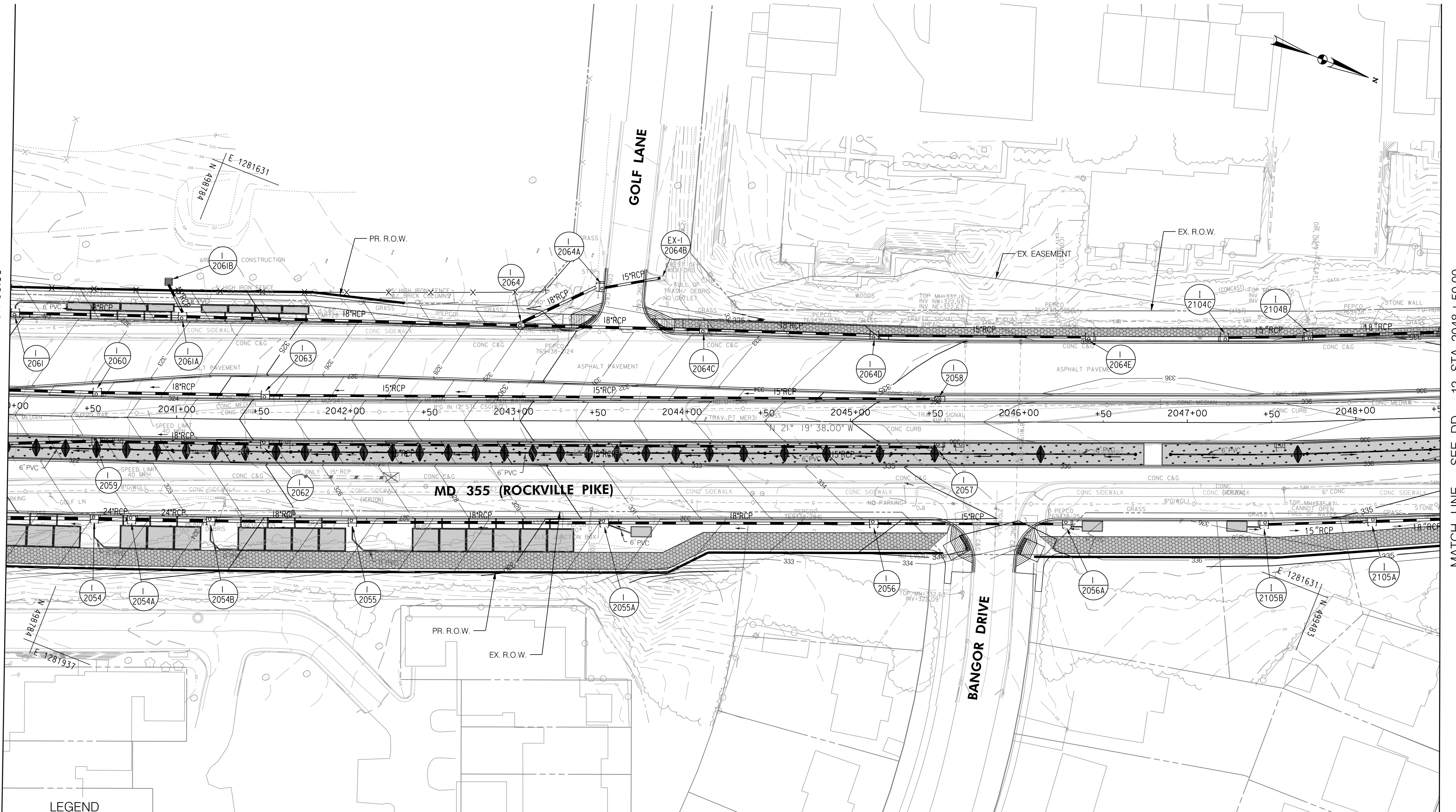
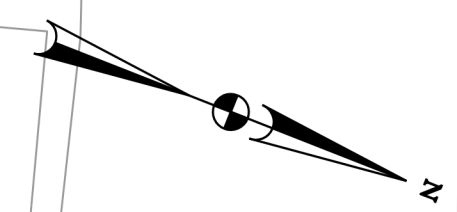
SCALE : 1" = 30'
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 415 of 887

DD-10

MATCH LINE - SEE DD - 10 STA. 2040 + 00.00

MATCH LINE - SEE DD - 12 STA. 2048 + 50.00



LEGEND

- | | | | |
|--|---|--|---|
| | PROPOSED DRAINAGE STRUCTURE | | PROPOSED DRAINAGE PIPE |
| | EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM | | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
| | EXISTING DRAINAGE STRUCTURE | | EXISTING DRAINAGE PIPE |
| | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL | | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL |
| | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED | | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED |

GENERAL STORM DRAIN LABEL NOTES:
 1. PROPOSED STORM DRAIN SIZES HAVE BEEN ESTIMATED AT THIS PHASE AND ARE SUBJECT TO CHANGE WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED.
 2. ATTEMPTS HAVE BEEN MADE TO UTILIZE EXISTING STORM DRAIN PIPES TO THE EXTENT PRACTICAL.
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 LICENSE NO. _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

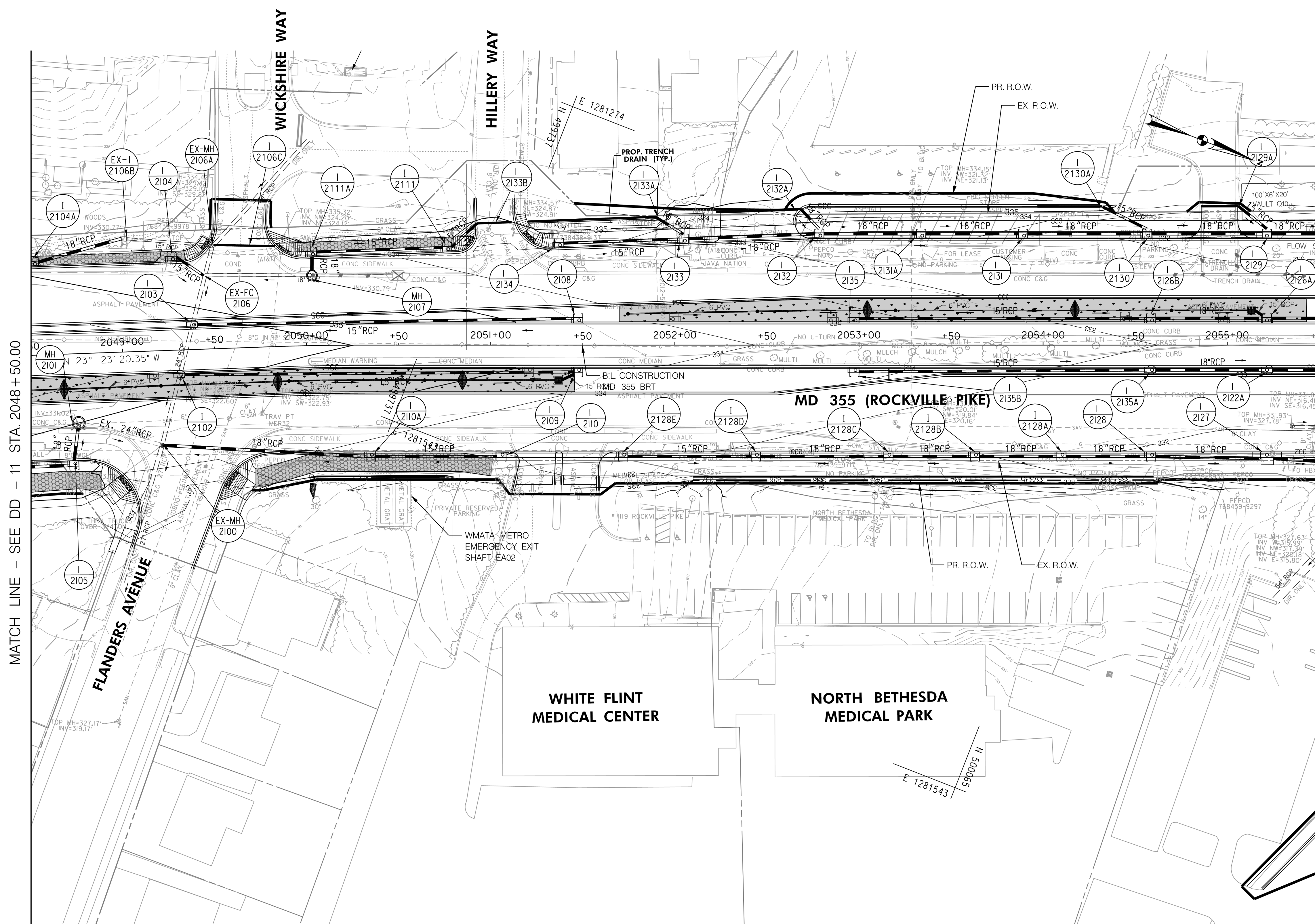
RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering
 Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)

DRAINAGE PLAN
SEGMENT 2

SCALE : 1" = 30'
 DATE : DECEMBER 2022
 Project No. : 502005 SHEET 416 of 887

DD-11



LEGEND

- | | | | |
|--|---|--|---|
| | PROPOSED DRAINAGE STRUCTURE | | PROPOSED 48" RCP DRAINAGE PIPE |
| | EXISTING DRAINAGE STRUCTURE | | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
| | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL | | EXISTING 48" RCP DRAINAGE PIPE |
| | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED | | EXISTING 48" RCP DRAINAGE PIPE TO REMAIN FUNCTIONAL |
| | | | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED |

GENERAL STORM DRAIN LABEL NOTES:
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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES _____ Date _____
 Chief, Design Section
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES _____ Date _____
 Chief, Division of Transportation Engineering
 Designed by: _____ Drawn by: _____ Checked by: _____

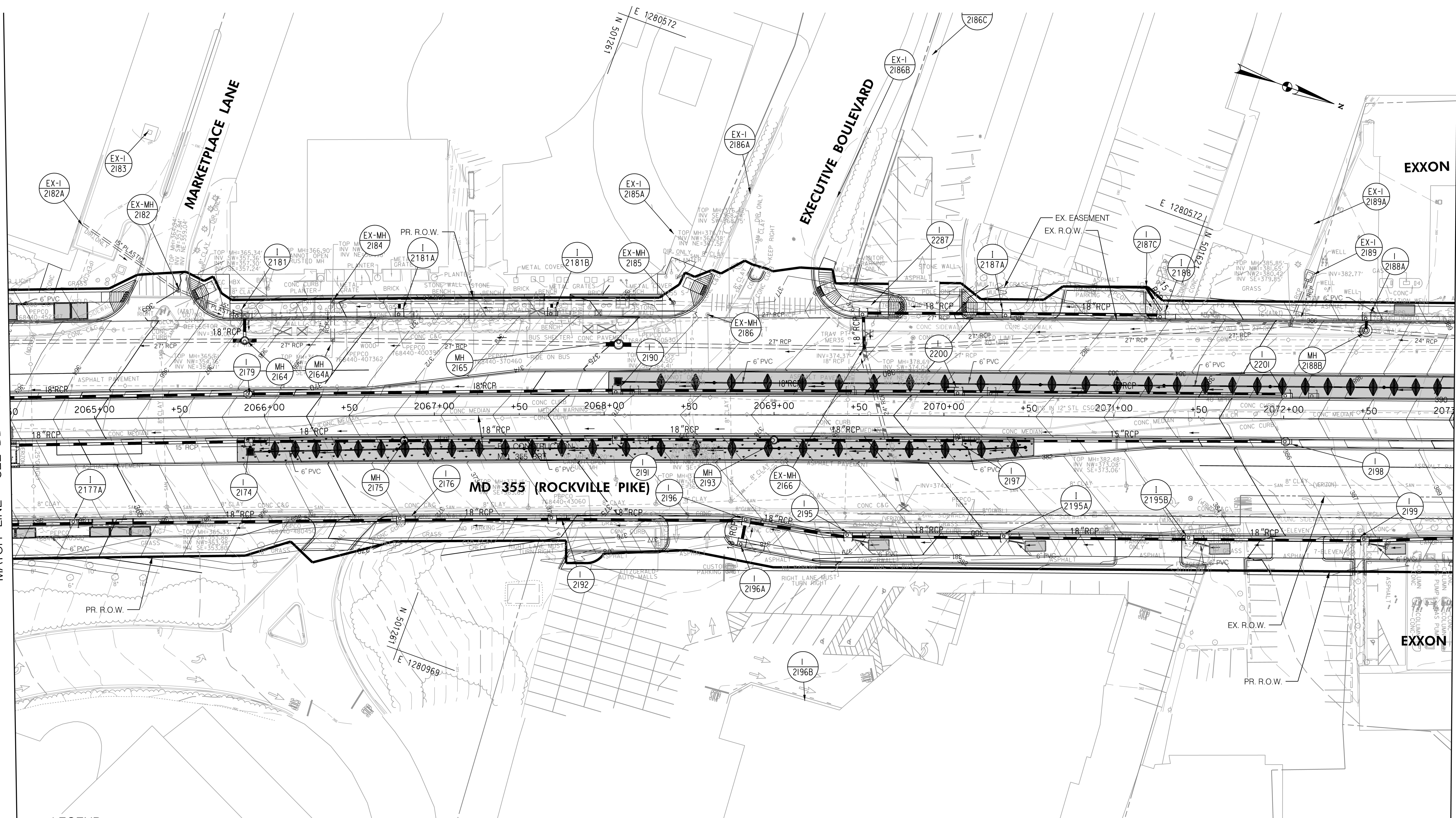
MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 2

SCALE : 1" = 30'
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 417 of 887

MATCH LINE - SEE DD - 13 STA. 2064+50.00

MATCH LINE - SEE DD - 15 STA. 2073+00.00



LEGEND

- | | | | |
|--|---|--|--|
| | PROPOSED DRAINAGE STRUCTURE | | |
| | | | |
| | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM | | |
| | EXISTING DRAINAGE STRUCTURE | | |
| | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL | | |
| | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED | | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED |

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 LICENSE NO. _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES _____ Date _____
 Chief, Design Section
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES _____ Date _____
 Chief, Division of Transportation Engineering
 Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)

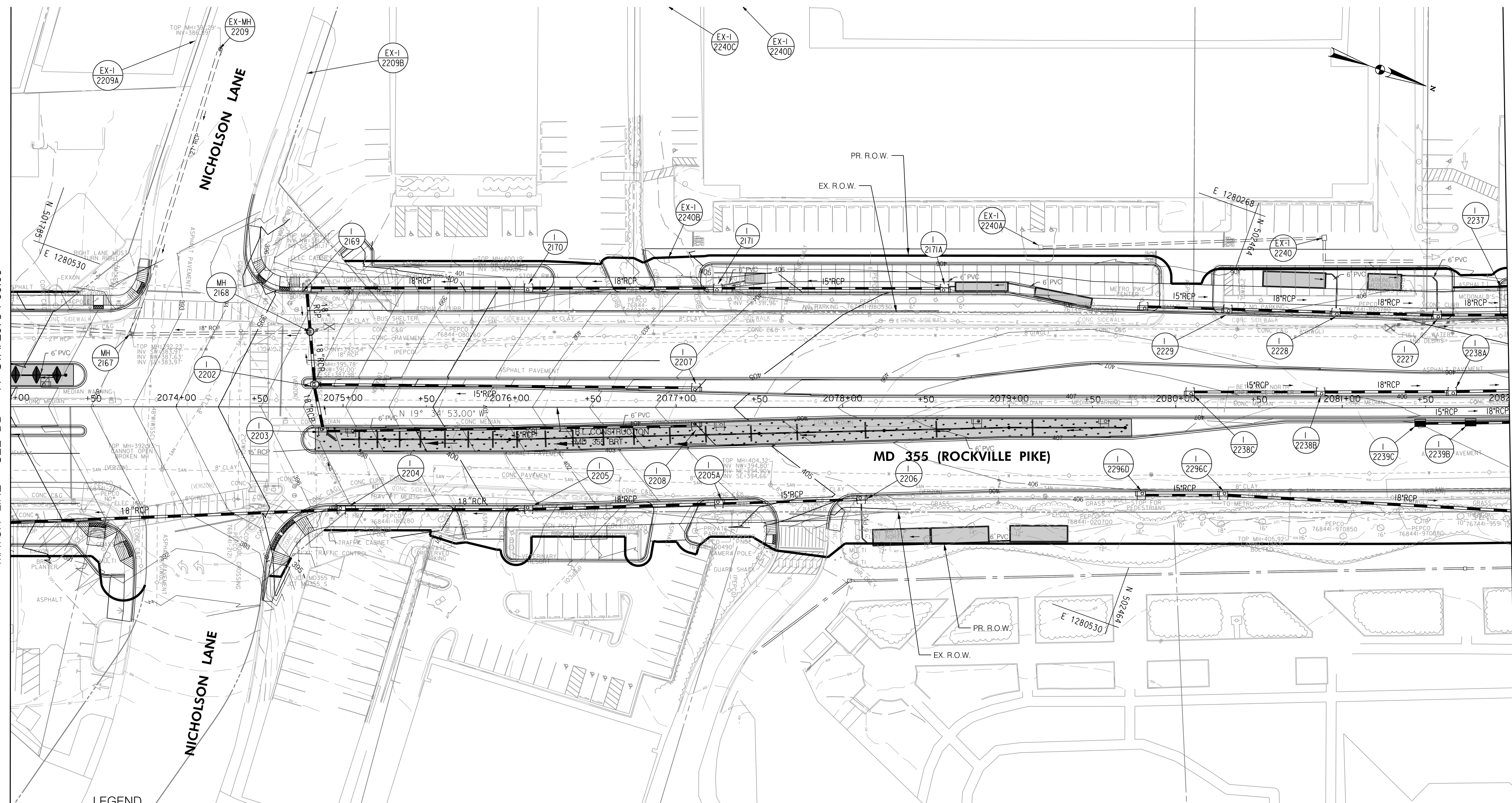
DRAINAGE PLAN
 SEGMENT 2

SCALE : 1" = 30'
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 419 of 887

MATCH LINE - SEE DD - 14 STA. 2073 + 00.00

MATCH LINE - SEE DD - 16 STA. 2082 + 00.00



LEGEND

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

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 LICENSE NO. _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

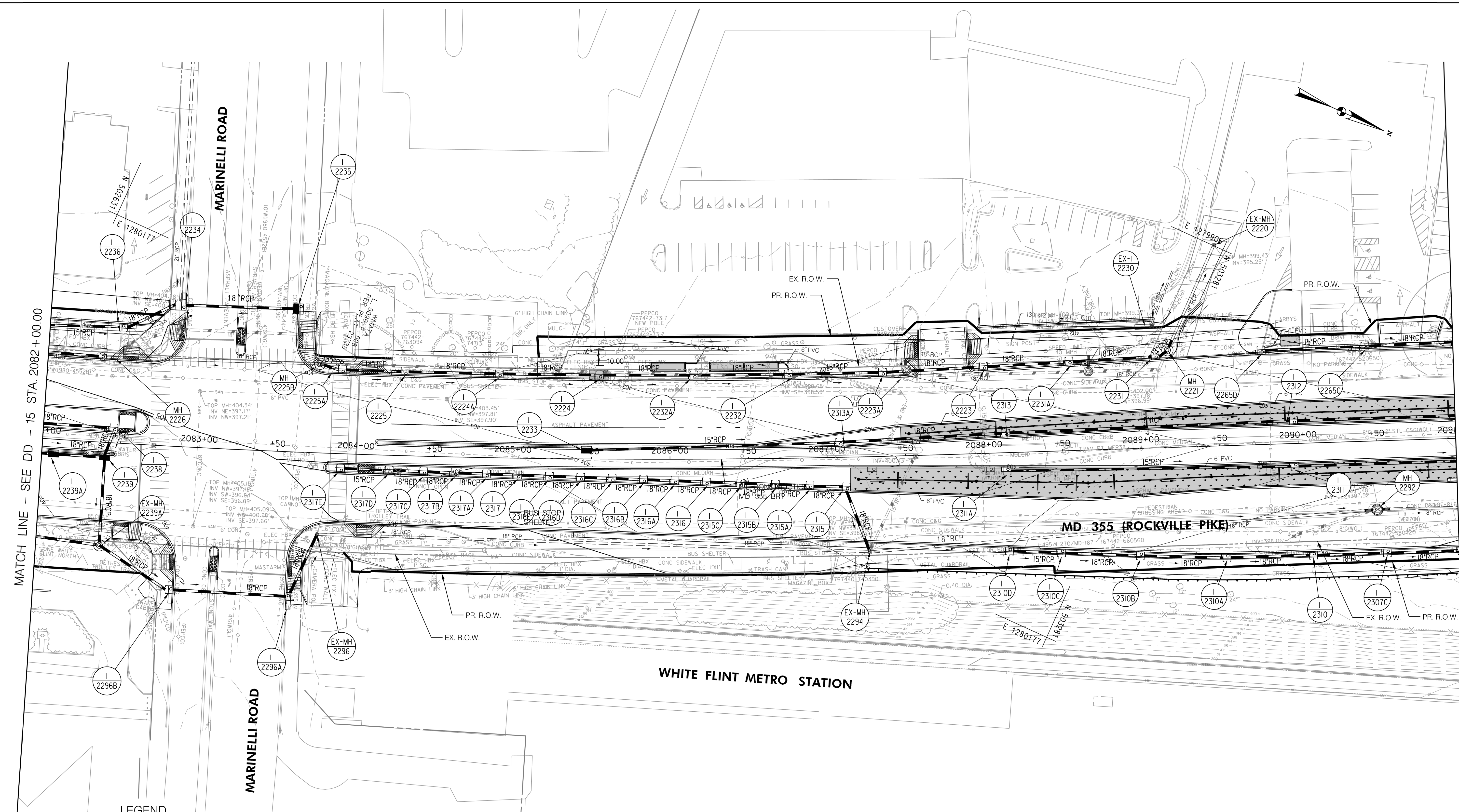
RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES _____ Date _____
 Chief, Design Section
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES _____ Date _____
 Chief, Division of Transportation Engineering
 Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 2

SCALE : 1" = 30'
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 420 of 887

DD-15



LEGEND

	PROPOSED DRAINAGE STRUCTURE		
	PROPOSED 48" RCP DRAINAGE PIPE		ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
	EXISTING DRAINAGE STRUCTURE		EXISTING 48" RCP DRAINAGE PIPE
	EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL		EXISTING 48" RCP DRAINAGE PIPE TO REMAIN FUNCTIONAL
	EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED		EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

GENERAL STORM DRAIN LABEL NOTES:
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 LICENSE NO. _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section _____ Date _____

APPROVED

SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)

DRAINAGE PLAN
 SEGMENT 2

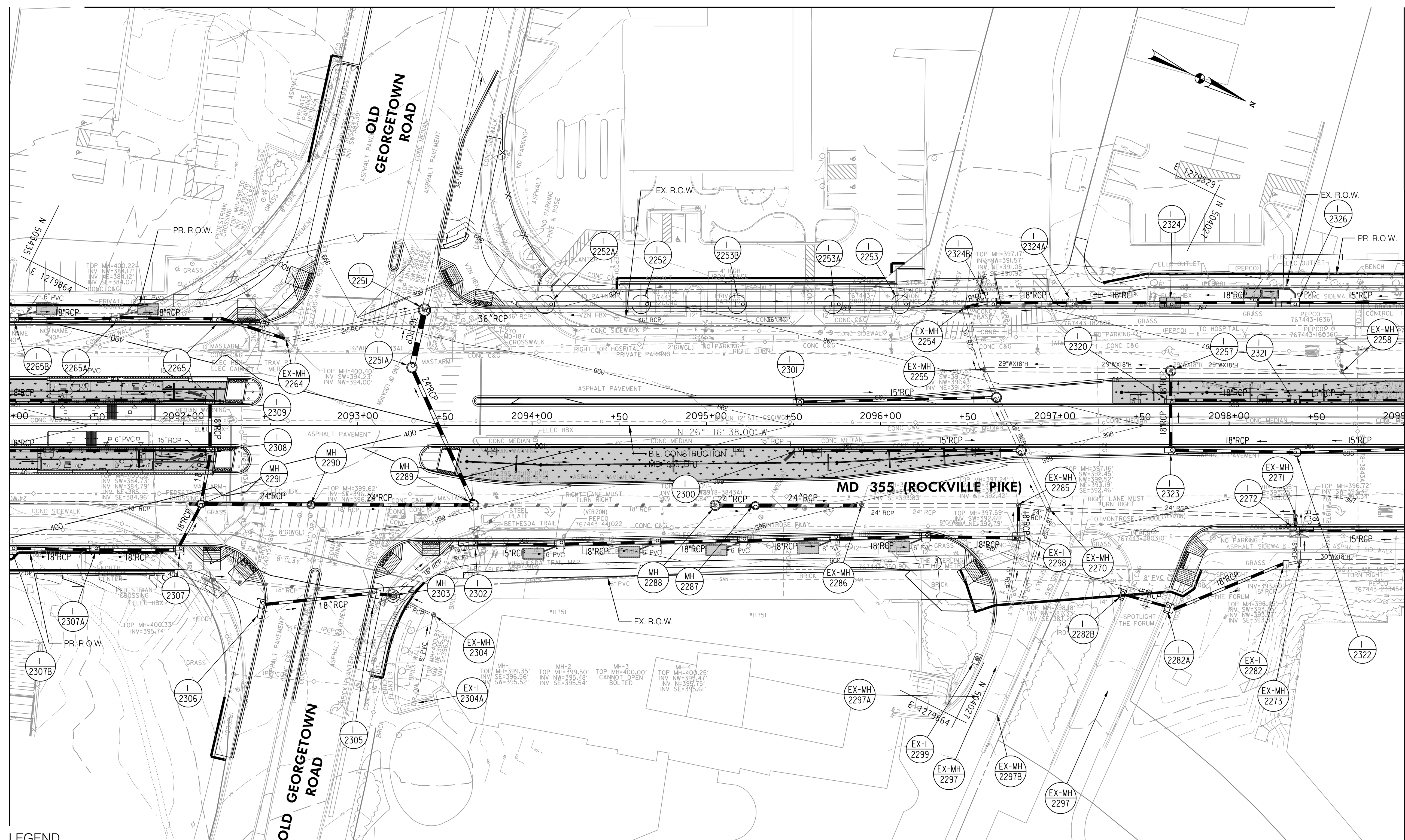
SCALE : 1" = 30'
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 421 of 887

MATCH LINE - SEE DD - 17A

MATCH LINE - SEE DD - 16 STA. 2091+00.00

MATCH LINE - SEE DD - 18 STA. 2099+00.00



LEGEND

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

GENERAL STORM DRAIN LABEL NOTES:
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 LICENSE NO. _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section _____ Date _____

APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering _____ Date _____

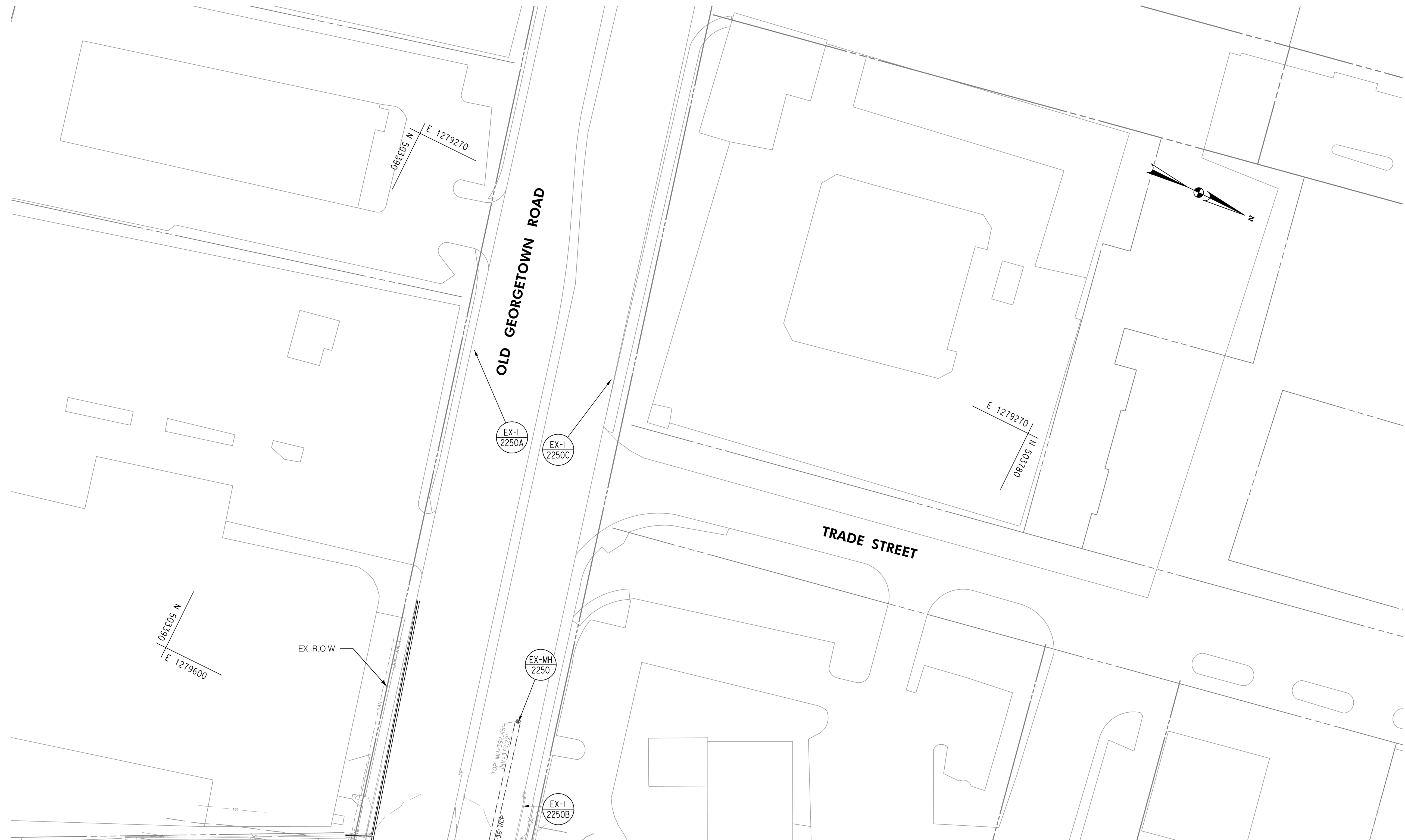
Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 2

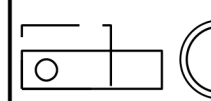
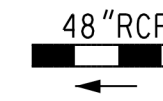
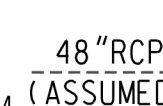



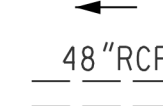

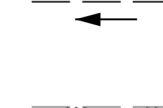
SCALE : 1" = 30'
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 422 of 887

DD-17



LEGEND

- 
 PROPOSED DRAINAGE STRUCTURE
- 
 48" RCP PROPOSED DRAINAGE PIPE
- 
 48" RCP (ASSUMED) ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- 
 EXISTING DRAINAGE STRUCTURE
- 
 48" RCP EXISTING DRAINAGE PIPE
- 
 EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- 
 48" RCP EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- 
 EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- 
 48" RCP EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

MATCH LINE - SEE DD - 17

GENERAL STORM DRAIN LABEL NOTES:

1. PROPOSED STORM DRAIN SIZES HAVE BEEN ESTIMATED AT THIS PHASE AND ARE SUBJECT TO CHANGE WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED.
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 LICENSE NO: _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

SEE TITLE SHEET FOR SIGNATURES _____ Date _____
 Chief, Design Section

APPROVED

SEE TITLE SHEET FOR SIGNATURES _____ Date _____
 Chief, Division of Transportation Engineering

Designed by : _____ Drawn by : _____ Checked by : _____

DD-17A

MD 355 BUS RAPID TRANSIT (BRT)

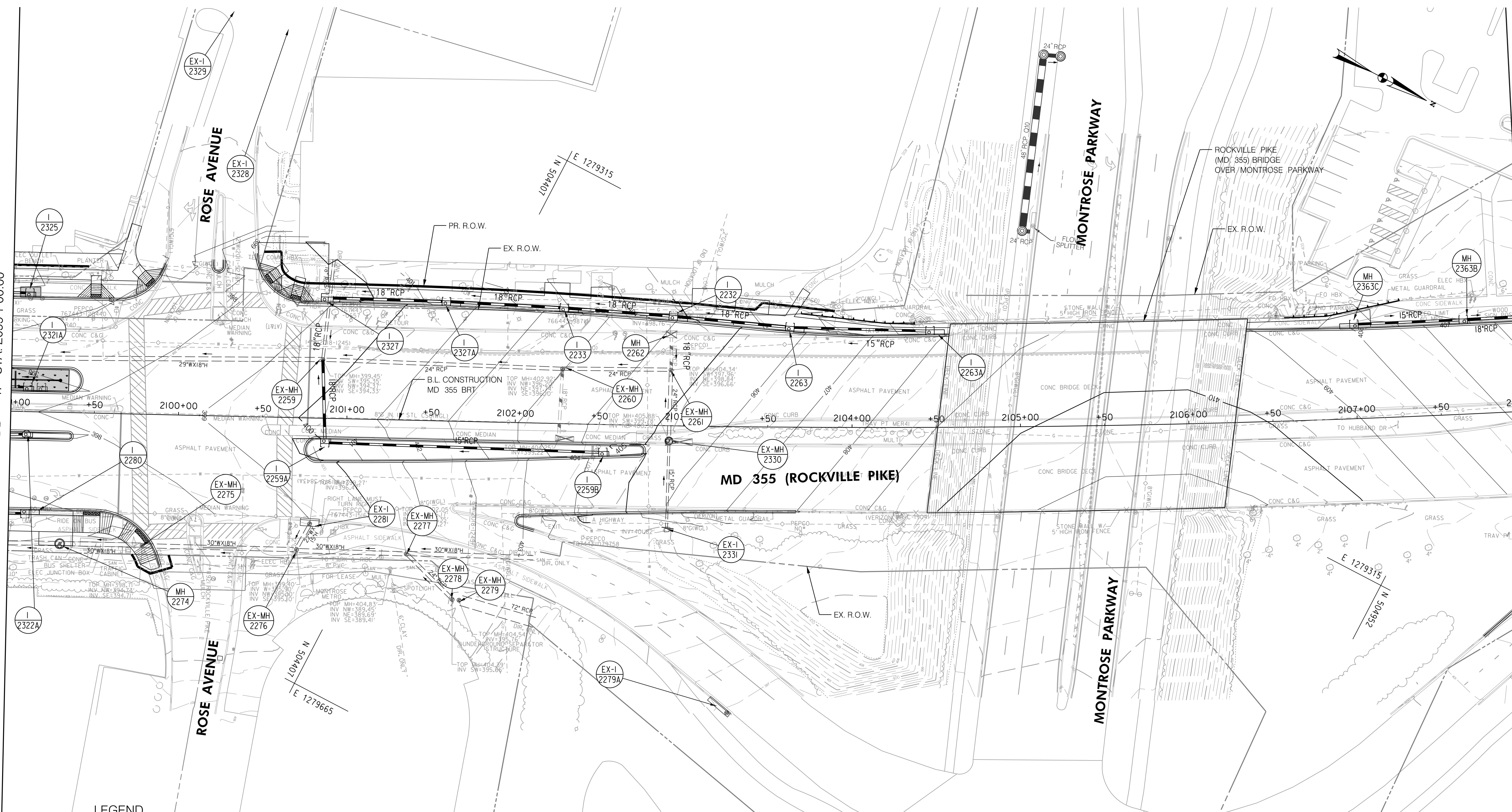
DRAINAGE PLAN
 SEGMENT 2

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 423 of 887

MATCH LINE - SEE DD - 17 STA. 2099 + 00.00

MATCH LINE - SEE DD - 19 STA. 2108 + 00.00



LEGEND

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

GENERAL STORM DRAIN LABEL NOTES:
 1. PROPOSED STORM DRAIN SIZES HAVE BEEN ESTIMATED AT THIS PHASE AND ARE SUBJECT TO CHANGE WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED.
 2. ATTEMPTS HAVE BEEN MADE TO UTILIZE EXISTING STORM DRAIN PIPES TO THE EXTENT PRACTICAL.
 3. WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED IT MAY BE DETERMINED THAT THE EXISTING STORM DRAIN PIPE DOES NOT FUNCTION ADEQUATELY AND MAY NEED TO BE REPLACED.
 4. EXISTING STORM DRAIN PIPES AND STRUCTURES TO REMAIN IN PLACE AND ONLINE WILL NEED TO BE INSPECTED AT A LATER PHASE TO DETERMINE THEIR CURRENT CONDITIONS AND MAY NEED TO BE CLEANED, REPAIRED, OR REPLACED.

Stantec
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 LAUREL, MARYLAND 20707
 (301) 982-2800
 www.stantec.com

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: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering

Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 2

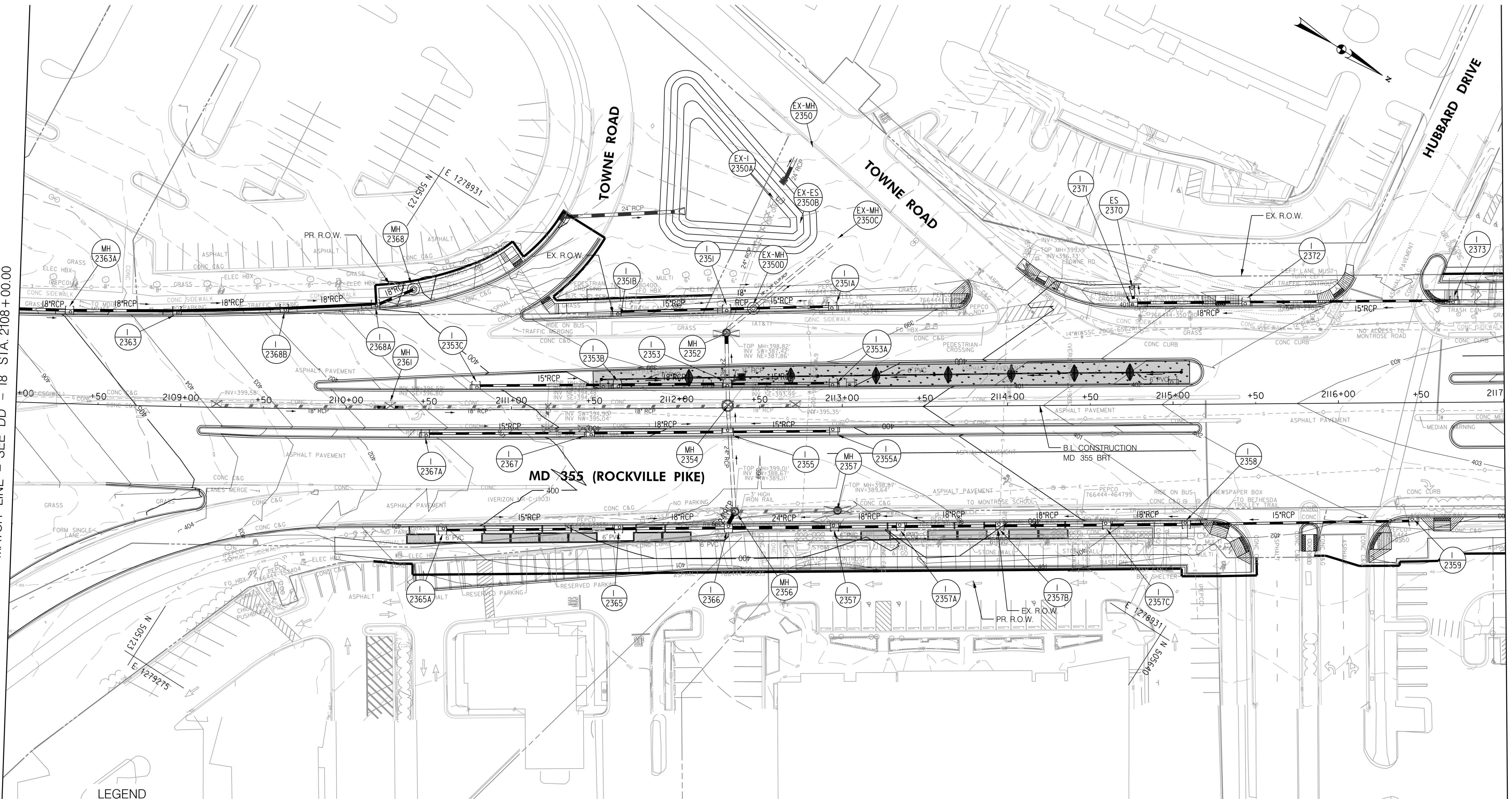
SCALE : 1" = 30'
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 424 of 887

DD-18

MATCH LINE - SEE DD - 18 STA. 2108+00.00

MATCH LINE - SEE DD - 20 STA. 2117+00.00



LEGEND

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

GENERAL STORM DRAIN LABEL NOTES:
 1. PROPOSED STORM DRAIN SIZES HAVE BEEN ESTIMATED AT THIS PHASE AND ARE SUBJECT TO CHANGE WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED.
 2. ATTEMPTS HAVE BEEN MADE TO UTILIZE EXISTING STORM DRAIN PIPES TO THE EXTENT PRACTICAL.
 3. WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED IT MAY BE DETERMINED THAT THE EXISTING STORM DRAIN PIPE DOES NOT FUNCTION ADEQUATELY AND MAY NEED TO BE REPLACED.
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 LICENSE NO. _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

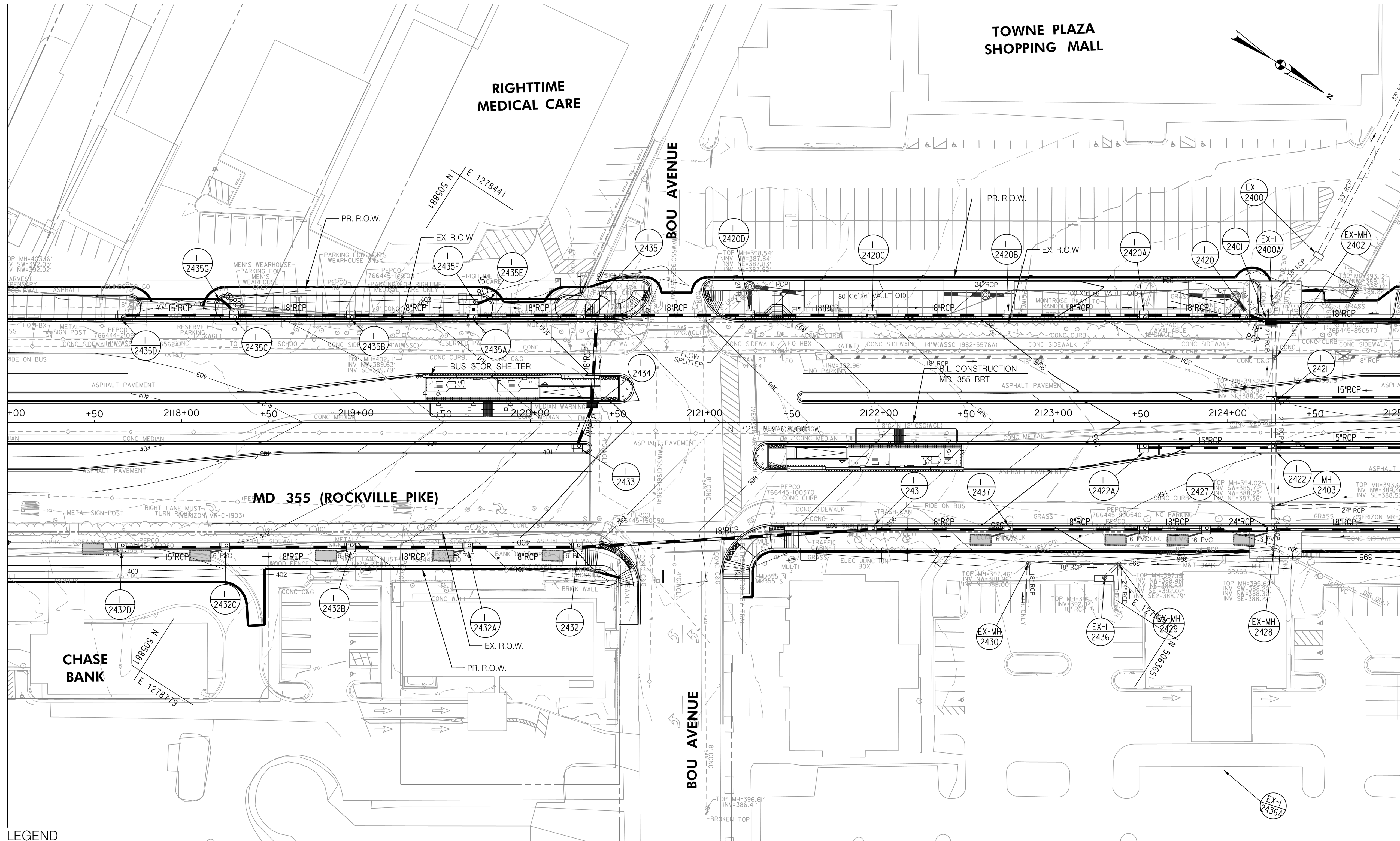
RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering
 Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 2

SCALE : 1" = 30'
 DATE : DECEMBER 2022
 Project No. : 502005 SHEET 425 of 887

MATCH LINE - SEE DD - 19 STA. 2117+00.00

MATCH LINE - SEE DD - 21 STA. 2125+00.00



TOWNE PLAZA SHOPPING MALL

RIGHTTIME MEDICAL CARE

BOU AVENUE

CHASE BANK

MD 355 (ROCKVILLE PIKE)

BOU AVENUE

LEGEND

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

GENERAL STORM DRAIN LABEL NOTES:
 1. PROPOSED STORM DRAIN LABELS HAVE BEEN ESTIMATED AT THIS PHASE AND ARE SUBJECT TO CHANGE WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED.
 2. ATTEMPTS HAVE BEEN MADE TO UTILIZE EXISTING STORM DRAIN PIPES TO THE EXTENT PRACTICAL.
 3. WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED IT MAY BE DETERMINED THAT THE EXISTING STORM DRAIN PIPE DOES NOT FUNCTION ADEQUATELY AND MAY NEED TO BE REPLACED.
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 LICENSE NO. _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section
 APPROVED
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 Chief, Division of Transportation Engineering

Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 2

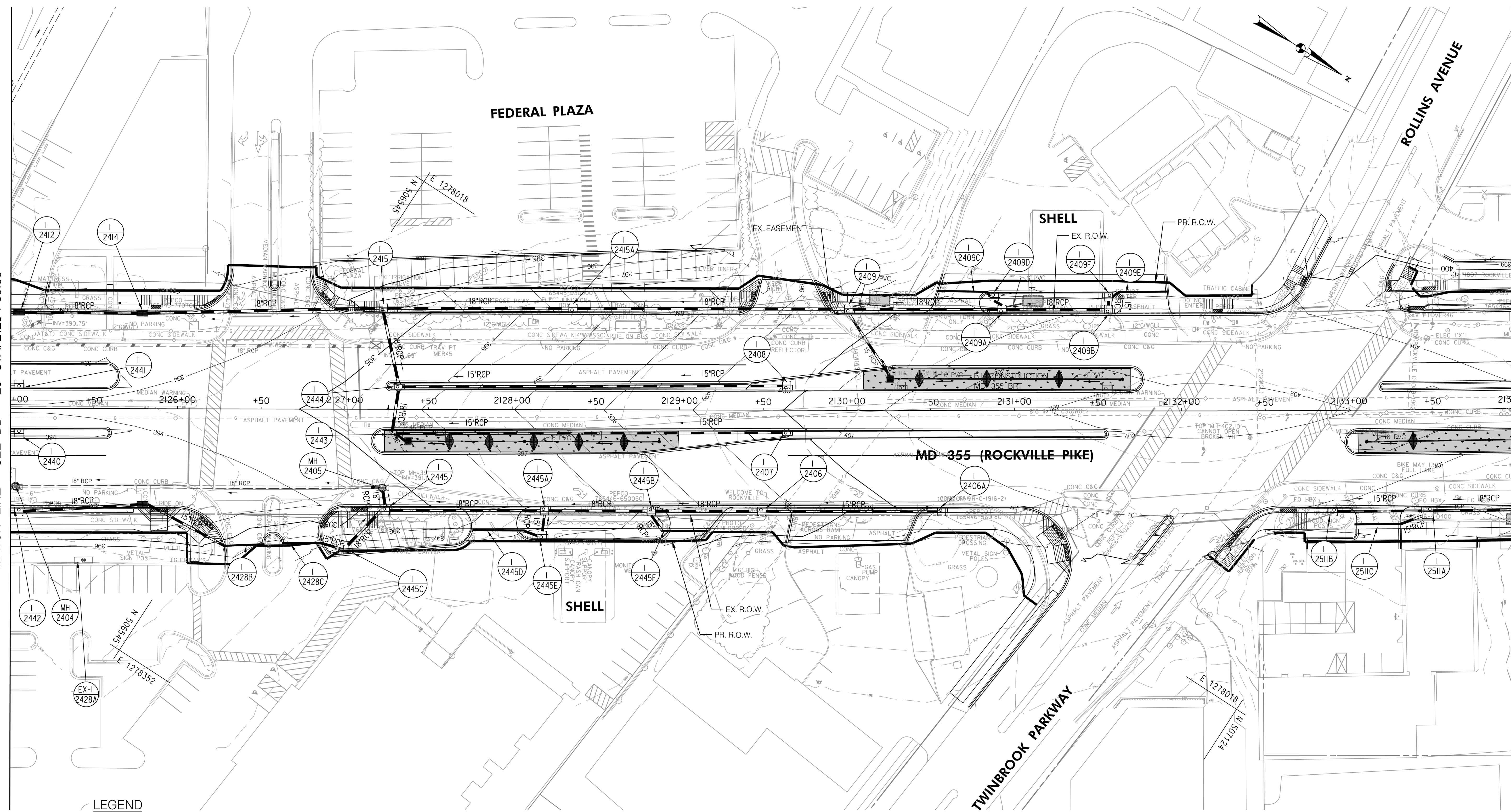
SCALE : 1" = 30'
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 426 of 887

DD-20

MATCH LINE - SEE DD - 20 STA. 2125 + 00.00

MATCH LINE - SEE DD - 22 STA. 2134 + 00.00



LEGEND

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

GENERAL STORM DRAIN LABEL NOTES:
 1. PROPOSED STORM DRAIN SIZES HAVE BEEN ESTIMATED AT THIS PHASE AND ARE SUBJECT TO CHANGE WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED.
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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section
 Date _____

APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering
 Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)

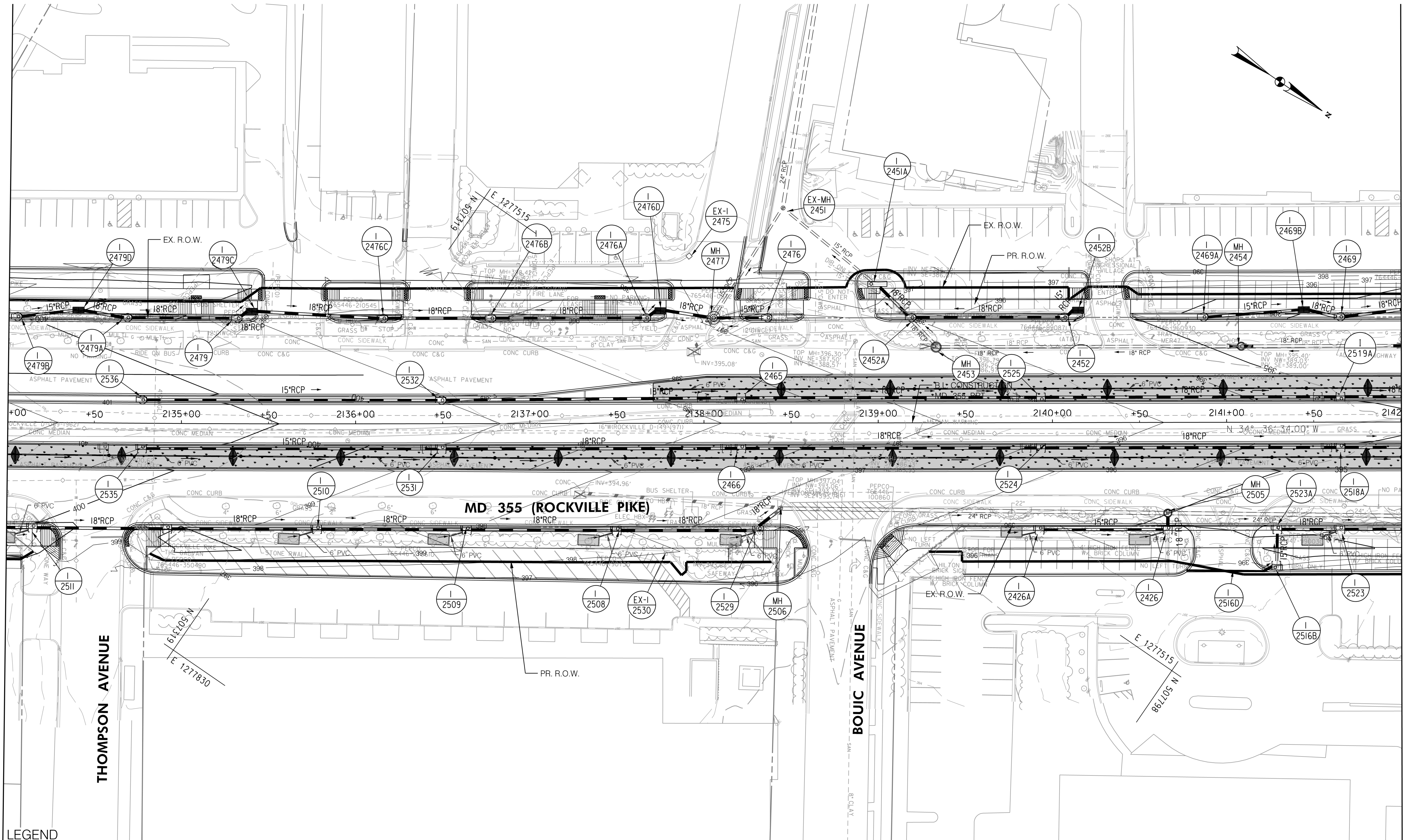
DRAINAGE PLAN
 SEGMENT 2

SCALE : 1" = 30'
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 427 of 887

MATCH LINE - SEE DD - 21 STA. 2134+00.00

MATCH LINE - SEE DD - 23 STA. 2142+00.00



LEGEND

- | | | | |
|--|---|--|---|
| | PROPOSED DRAINAGE STRUCTURE | | PROPOSED DRAINAGE PIPE |
| | EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM | | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
| | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL | | EXISTING DRAINAGE PIPE |
| | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL | | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL |
| | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED | | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED |

GENERAL STORM DRAIN LABEL NOTES:
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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

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 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering

Designed by: _____ Drawn by: _____ Checked by: _____

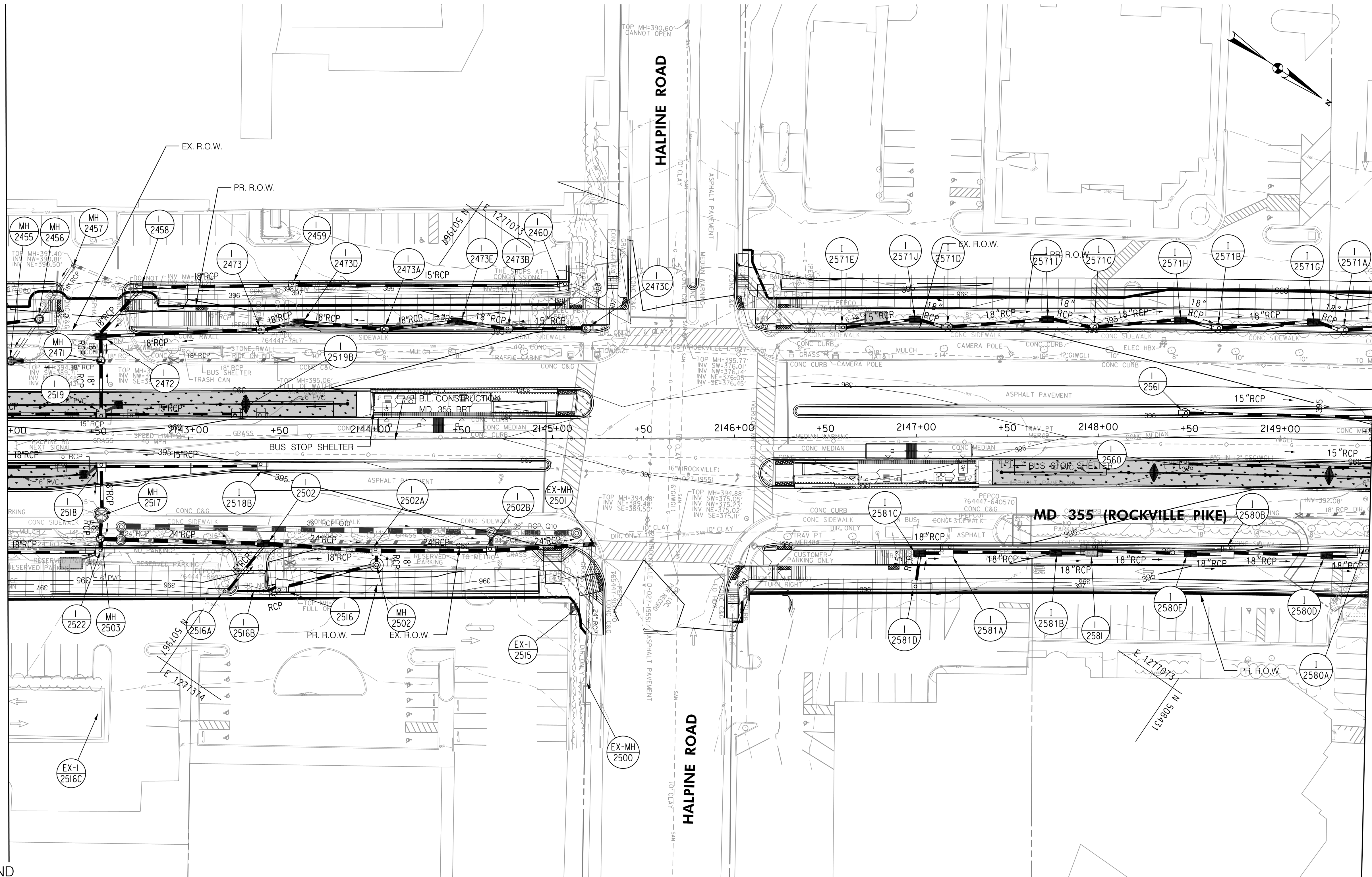
MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 2

SCALE : 1" = 30'
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 428 of 887

MATCH LINE - SEE DD - 22 STA. 2142 + 00.00

MATCH LINE - SEE DD - 24 STA. 2149 + 50.00



LEGEND

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

GENERAL STORM DRAIN LABEL NOTES:
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 LICENSE NO. _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

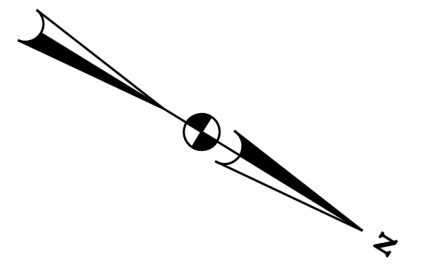
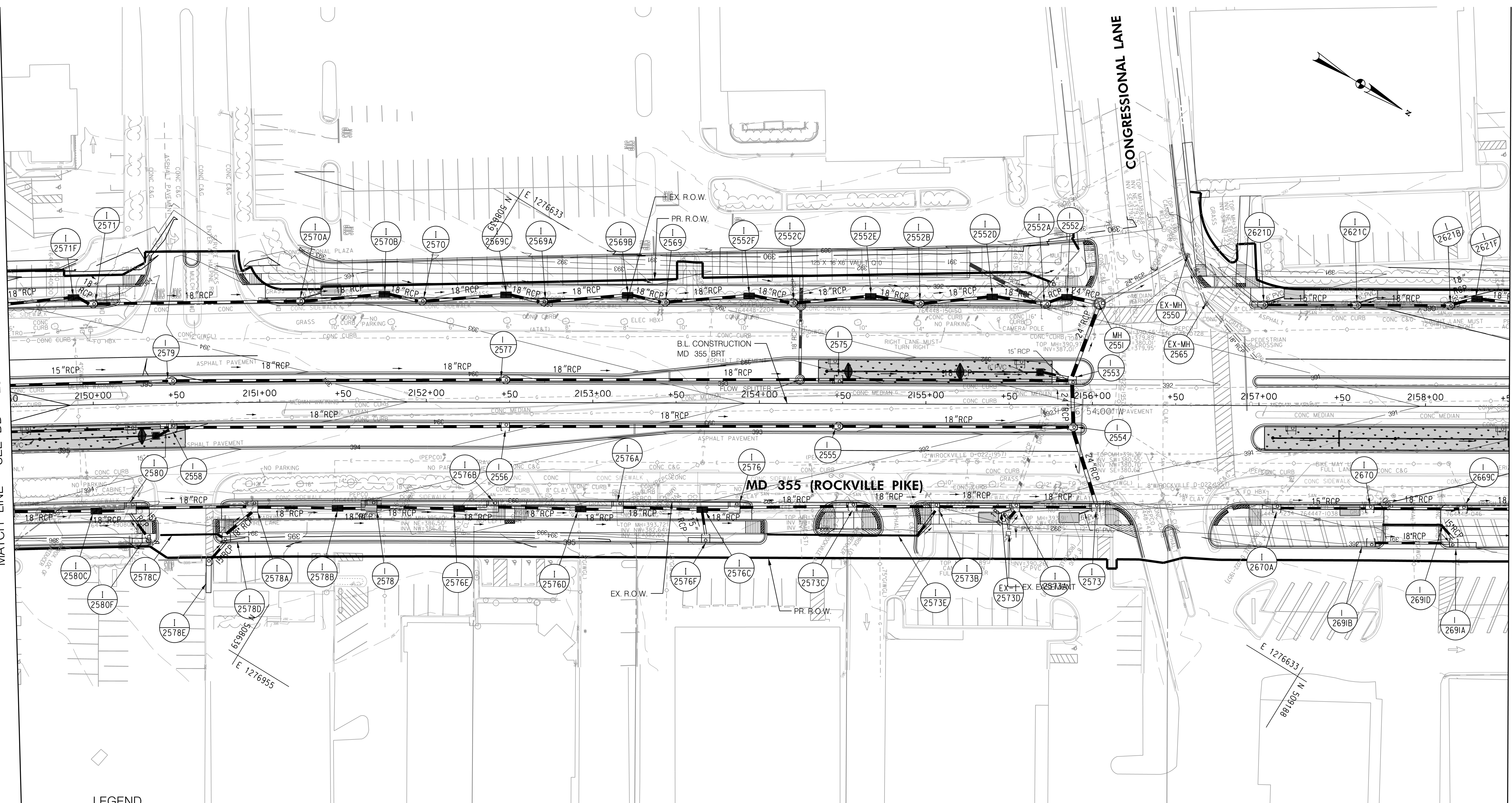
RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES _____ Date _____
 Chief, Design Section
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES _____ Date _____
 Chief, Division of Transportation Engineering
 Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 2

SCALE : 1" = 30'
 DATE : DECEMBER 2022
 Project No. : 502005 SHEET 429 of 887

MATCH LINE - SEE DD - 23 STA. 2149+50.00

MATCH LINE - SEE DD - 25 STA. 2158+50.00



LEGEND

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

GENERAL STORM DRAIN LABEL NOTES:
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Stantec
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 LICENSE NO. _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

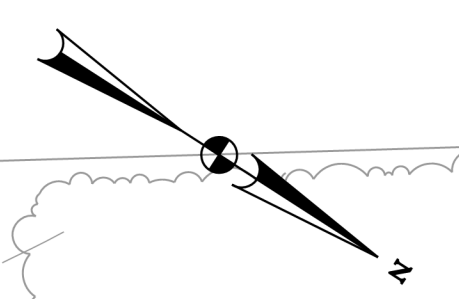
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering
 Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)

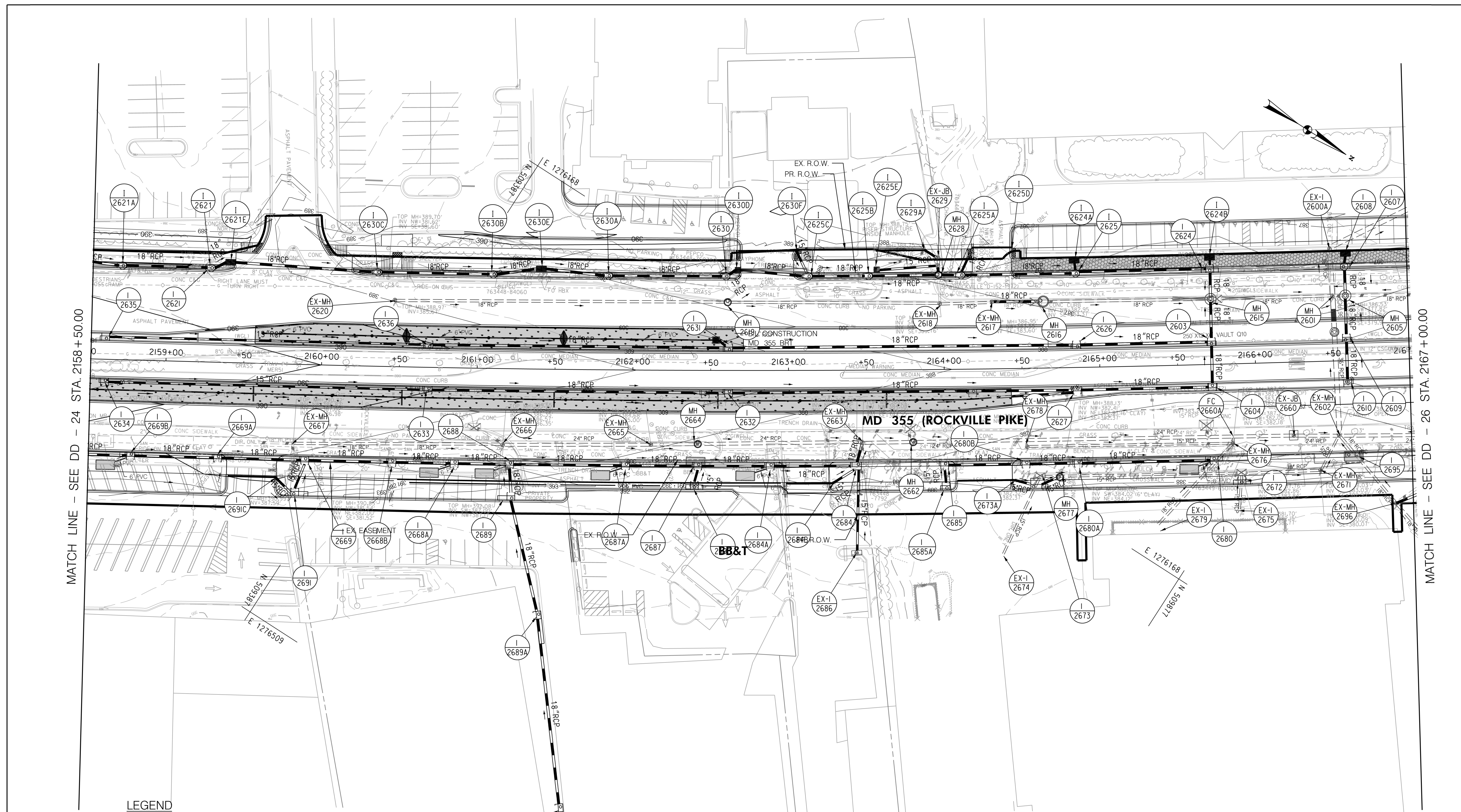
DRAINAGE PLAN
 SEGMENT 2

SCALE : 1" = 30'
 DATE : DECEMBER 2022
 Project No. : 502005 SHEET 430 of 887



MATCH LINE - SEE DD - 24 STA. 2158 + 50.00

MATCH LINE - SEE DD - 26 STA. 2167 + 00.00



LEGEND

- | | | | |
|--|---|--|---|
| | PROPOSED DRAINAGE STRUCTURE | | PROPOSED PIPE DRAINAGE PIPE |
| | EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM | | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
| | EXISTING DRAINAGE STRUCTURE | | EXISTING DRAINAGE PIPE |
| | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL | | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL |
| | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED | | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED |

GENERAL STORM DRAIN LABEL NOTES:
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 LICENSE NO. _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section _____ Date _____
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering _____ Date _____
 Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)

DRAINAGE PLAN
SEGMENT 2

SCALE : 1" = 30'
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 431 of 887

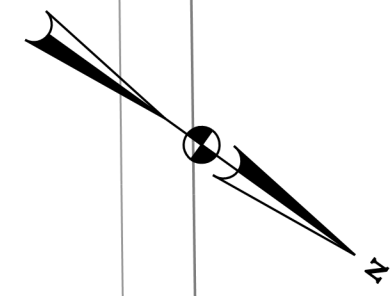
MONTGOMERY COUNTY
HEALTH & HUMAN SERVICES
HOUSING & COMMUNITY AFFAIRS

TEMPLETON PLACE

MD 355 (ROCKVILLE PIKE)

MATCH LINE - SEE DD - 25 STA. 2167 + 00.00

MATCH LINE - SEE DD - 27 STA. 2176 + 00.00



LEGEND

	PROPOSED DRAINAGE STRUCTURE		PROPOSED DRAINAGE PIPE
	EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM		ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
	EXISTING DRAINAGE STRUCTURE		EXISTING DRAINAGE PIPE
	EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL		EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
	EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED		EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

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 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
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 Chief, Design Section
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering

Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 2

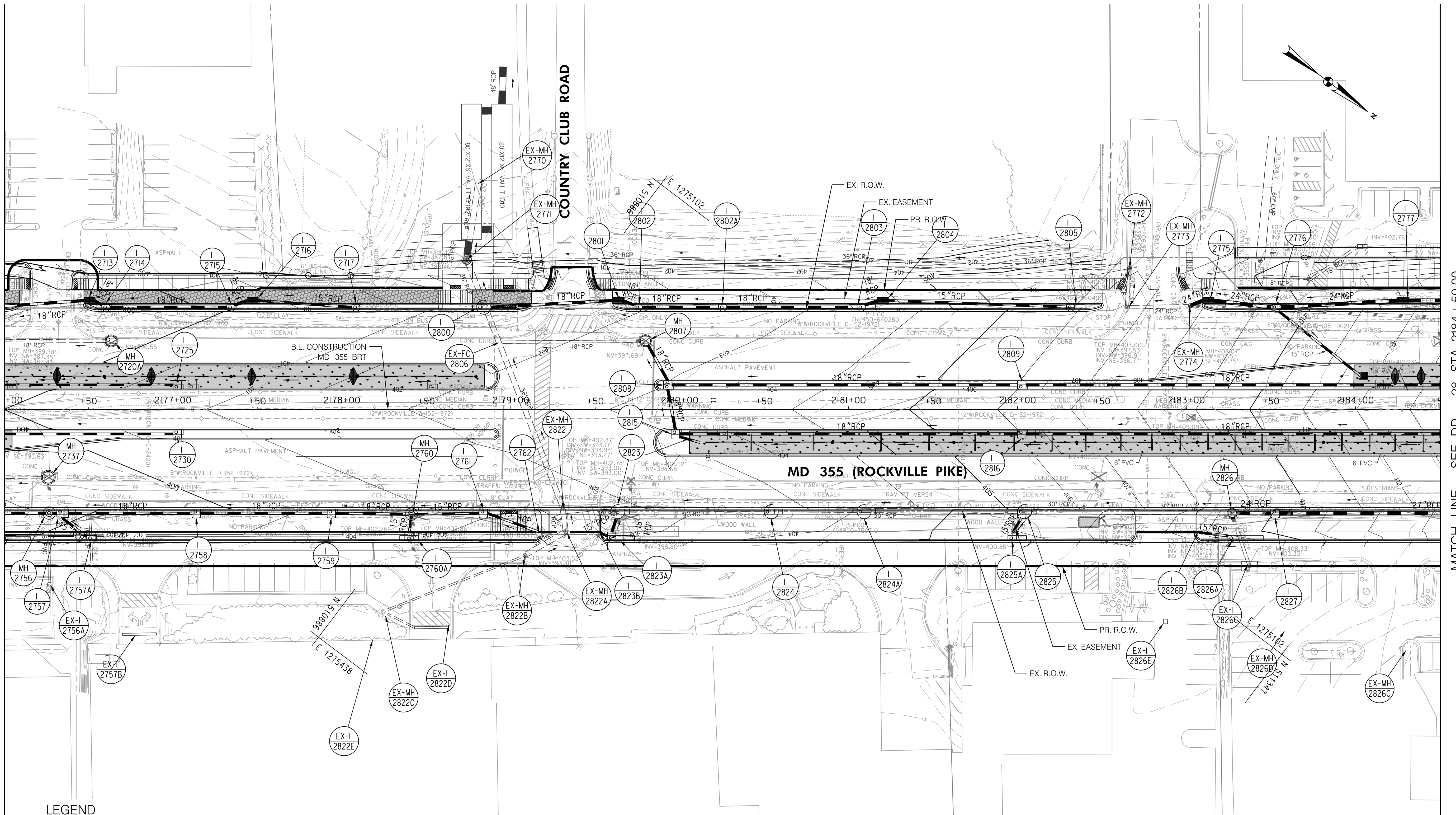
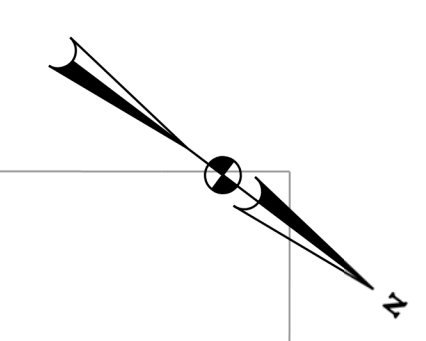
SCALE : 1" = 30'
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 432 of 887

DD-26

MATCH LINE - SEE DD - 26 STA. 2176+00.00

MATCH LINE - SEE DD - 28 STA. 2184+50.00



LEGEND

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE PIPE
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 3. WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED IT MAY BE DETERMINED THAT THE EXISTING STORM DRAIN PIPE DOES NOT FUNCTION ADEQUATELY AND MAY NEED TO BE REPLACED.
 4. EXISTING STORM DRAIN PIPES AND STRUCTURES TO REMAIN IN PLACE AND ONLINE WILL NEED TO BE INSPECTED AT A LATER PHASE TO DETERMINE THEIR CURRENT CONDITIONS AND MAY NEED TO BE CLEANED, REPAIRED, OR REPLACED.



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: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering
 Designed by: _____ Drawn by: _____ Checked by: _____

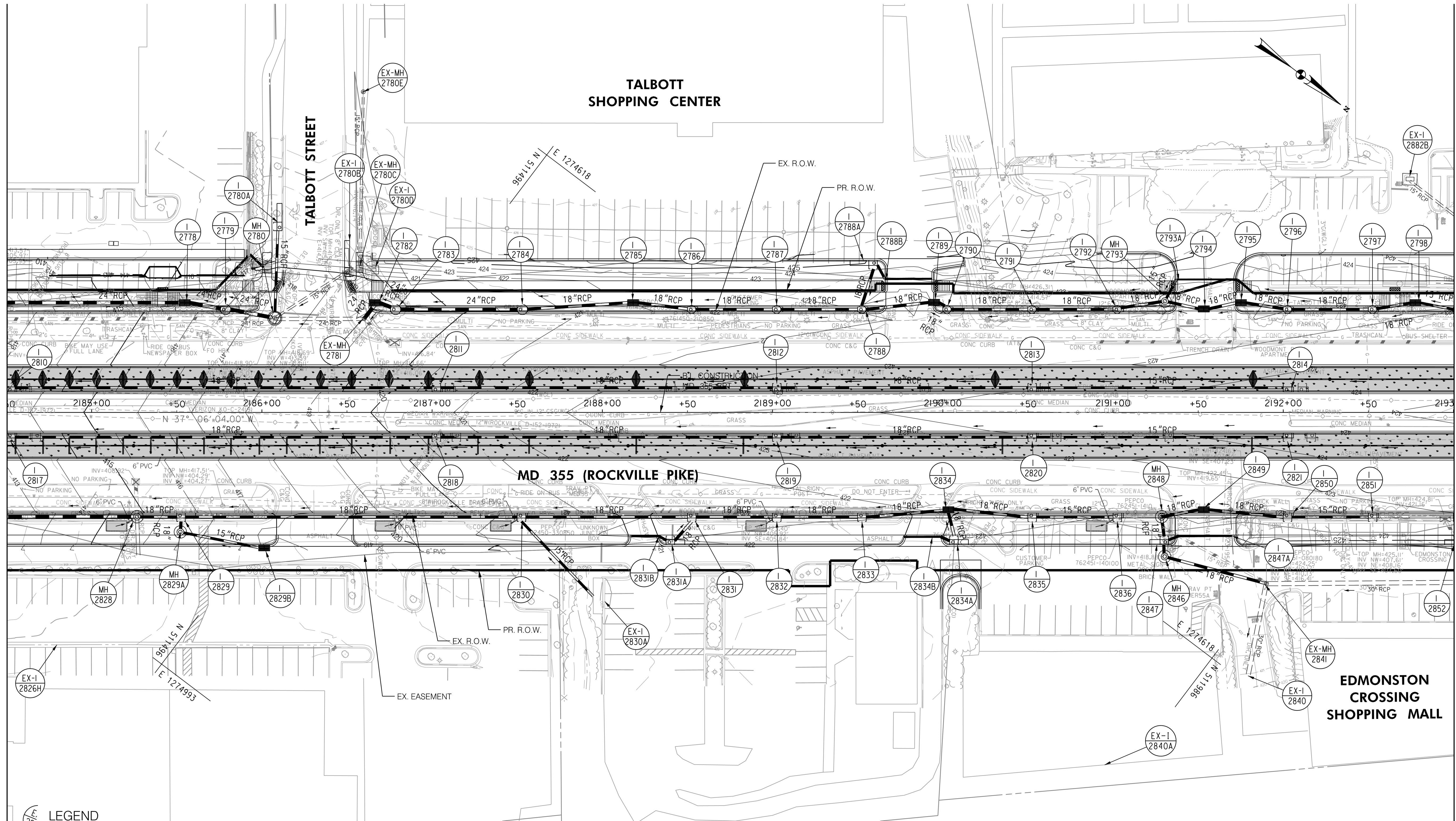
MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 2

SCALE : 1" = 30'
 DATE : DECEMBER 2022
 Project No. : 502005 SHEET 433 of 887

DD-27

MATCH LINE - SEE DD - 27 STA. 2184+50.00

MATCH LINE - SEE DD - 29 STA. 2193+00.00



LEGEND

	PROPOSED DRAINAGE STRUCTURE		PROPOSED DRAINAGE PIPE
	EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM		ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
	EXISTING DRAINAGE STRUCTURE		EXISTING DRAINAGE PIPE
	EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL		EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
	EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED		EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

GENERAL STORM DRAIN LABEL NOTES:
 1. PROPOSED STORM DRAIN SIZES HAVE BEEN ESTIMATED AT THIS PHASE AND ARE SUBJECT TO CHANGE WHEN CALCULATIONS, PROFILES, AND HGLS ARE DEVELOPED.
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 LICENSE NO. _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section _____ Date _____

APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 2

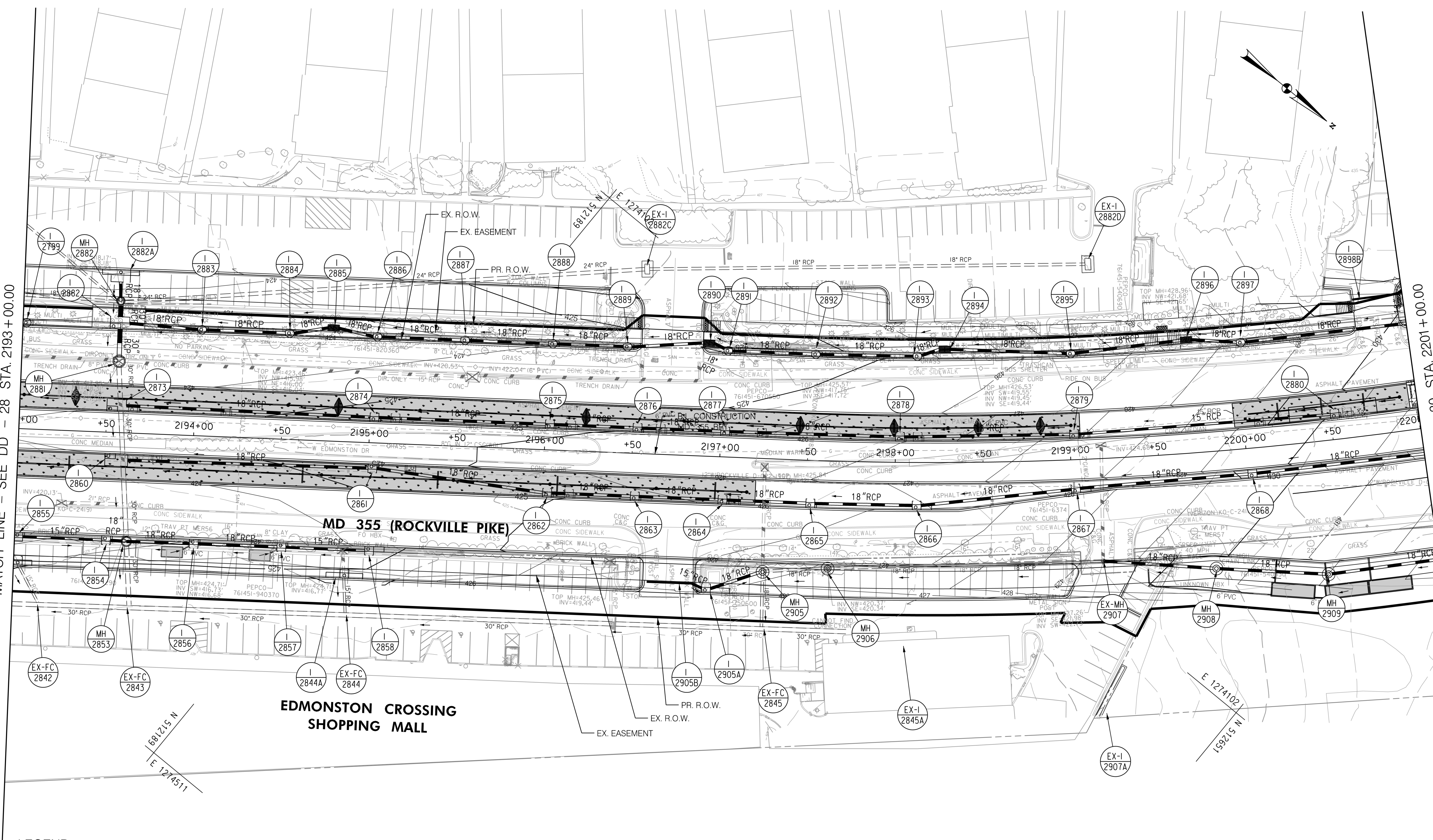
SCALE : 1" = 30'
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 434 of 887

DD-28

MATCH LINE - SEE DD - 28 STA. 2193 + 00.00

MATCH LINE - SEE DD - 30 STA. 2201 + 00.00



LEGEND

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EX. DRAINAGE STRUCTURE
- EXISTING DRAINAGE PIPE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

GENERAL STORM DRAIN LABEL NOTES:
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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
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 Chief, Design Section
 Date

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 Chief, Division of Transportation Engineering
 Date

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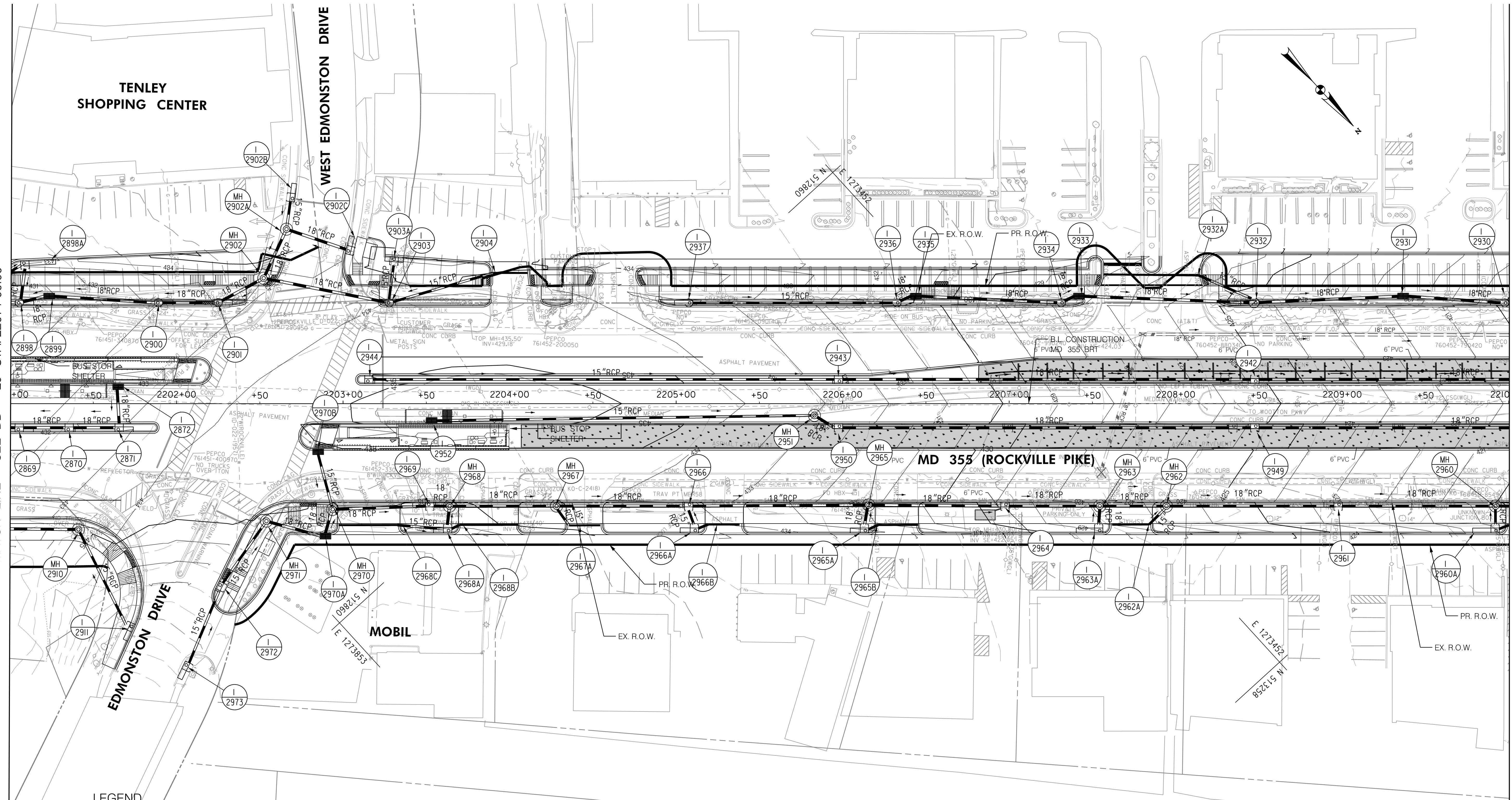
MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 2

SCALE : 1" = 30'
 DATE : DECEMBER 2022

Project No. : 502005
 SHEET 435 of 887

MATCH LINE - SEE DD - 29 STA. 2201+00.00

MATCH LINE - SEE DD - 31 STA. 2210+00.00



LEGEND

- PROPOSED DRAINAGE STRUCTURE
- 48" RCP ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- 48" RCP PROPOSED DRAINAGE PIPE
- 48" RCP ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- 48" RCP EXISTING DRAINAGE PIPE
- 48" RCP EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
- 48" RCP EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

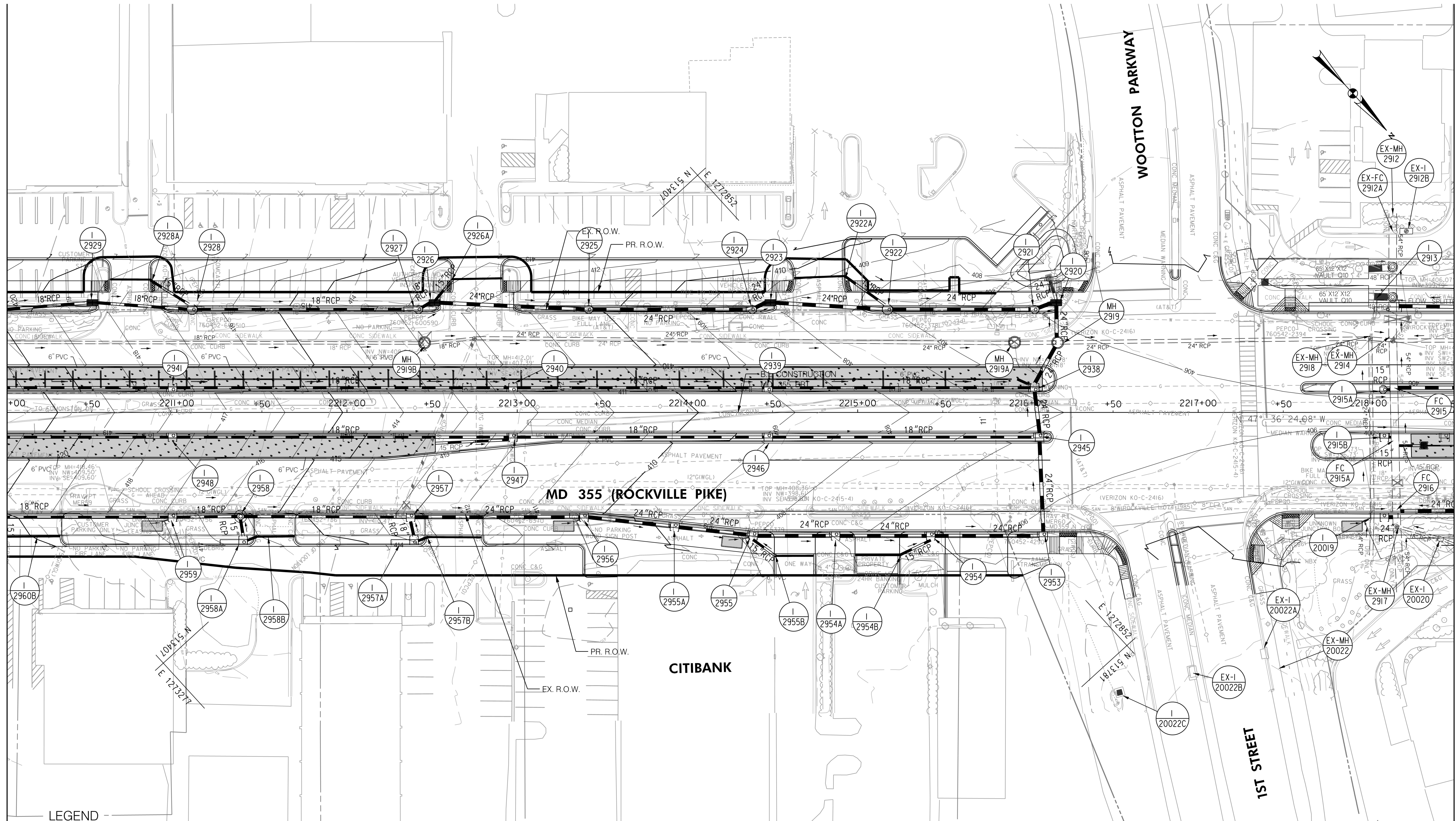
RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering
 Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 2

SCALE : 1" = 30'
 DATE : DECEMBER 2022
 Project No. : 502005 SHEET 436 of 887

MATCH LINE - SEE DD - 30 STA. 2210+00.00

MATCH LINE - SEE DD - 32 STA. 2218+50.00



LEGEND

- | | | | |
|--|---|--|---|
| | PROPOSED DRAINAGE STRUCTURE | | PROPOSED DRAINAGE PIPE |
| | EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM | | ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM |
| | EXISTING DRAINAGE STRUCTURE | | EXISTING DRAINAGE PIPE |
| | EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL | | EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL |
| | EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED | | EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED |

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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section
 Date _____

APPROVED
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 Chief, Division of Transportation Engineering
 Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)

DRAINAGE PLAN
 SEGMENT 2

SCALE : 1" = 30'
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 437 of 887

MATCH LINE - SEE DD - 31 STA. 2218+50.00

MATCH LINE - SEE DD - 33 STA. 2227+00.00

MOUNT VERNON PLACE

MD 355 (ROCKVILLE PIKE)

LEGEND

	PROPOSED DRAINAGE STRUCTURE		PROPOSED DRAINAGE PIPE
	EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM		ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
	EXISTING DRAINAGE STRUCTURE		EXISTING DRAINAGE PIPE
	EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL		EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
	EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED		EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

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Stantec
 6110 FROST PLACE,
 LAUREL, MARYLAND 20707
 (301) 982-2900
 www.stantec.com

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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

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 Chief, Design Section
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES _____ Date _____
 Chief, Division of Transportation Engineering
 Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)

DRAINAGE PLAN
 SEGMENT 2

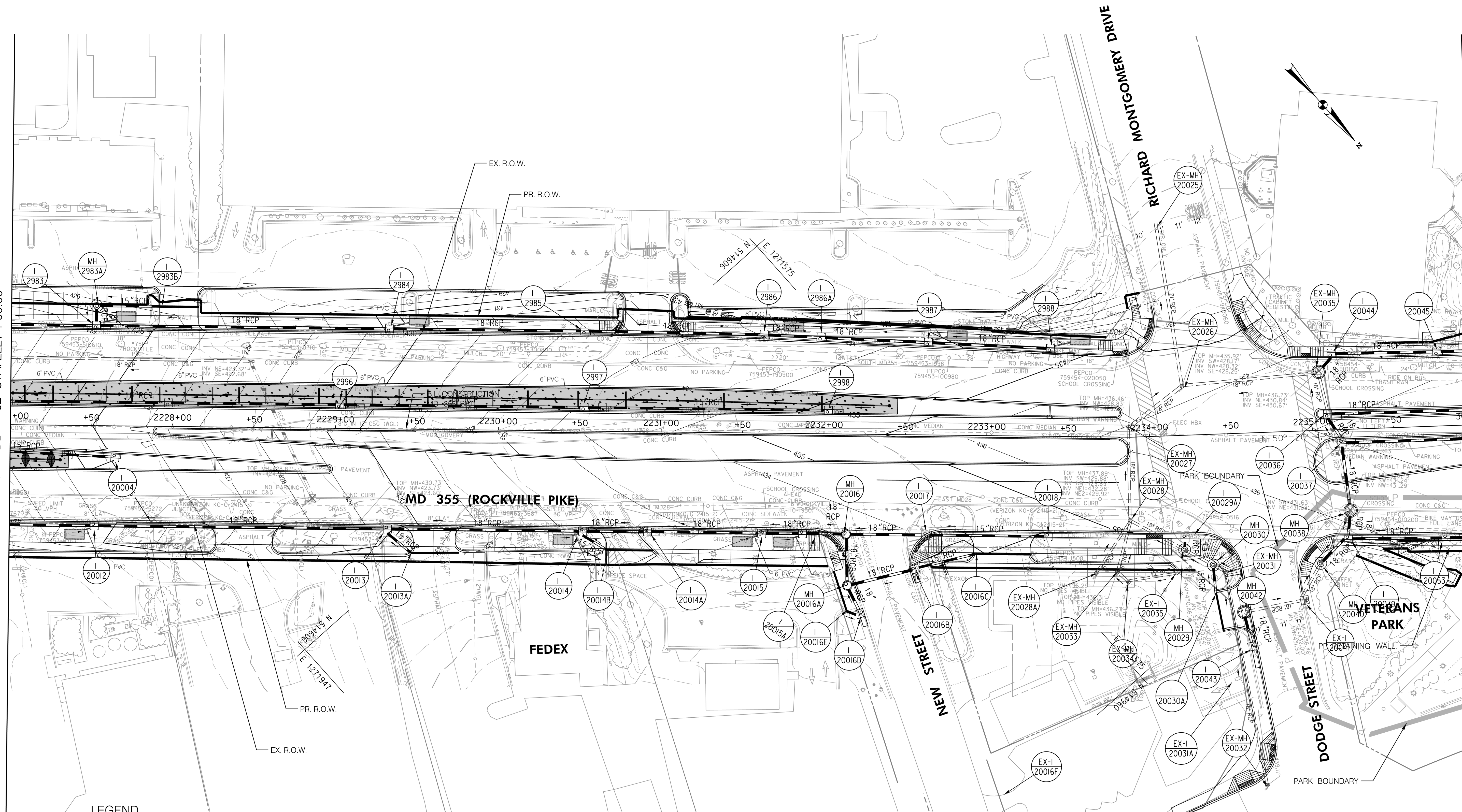
SCALE : 1" = 30'
 DATE : DECEMBER 2022

Project No. : 502005 SHEET 438 of 887

DD-32

MATCH LINE - SEE DD - 32 STA. 2227 + 00.00

MATCH LINE - SEE DD - 34 STA. 3000 + 00.00



LEGEND

- PROPOSED DRAINAGE STRUCTURE
- PROPOSED DRAINAGE PIPE
- ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
- EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM
- EXISTING DRAINAGE STRUCTURE
- EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL
- EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
- EXISTING DRAINAGE PIPE
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 GAITHERSBURG, MARYLAND

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 Chief, Design Section
 Date

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 Chief, Division of Transportation Engineering
 Date

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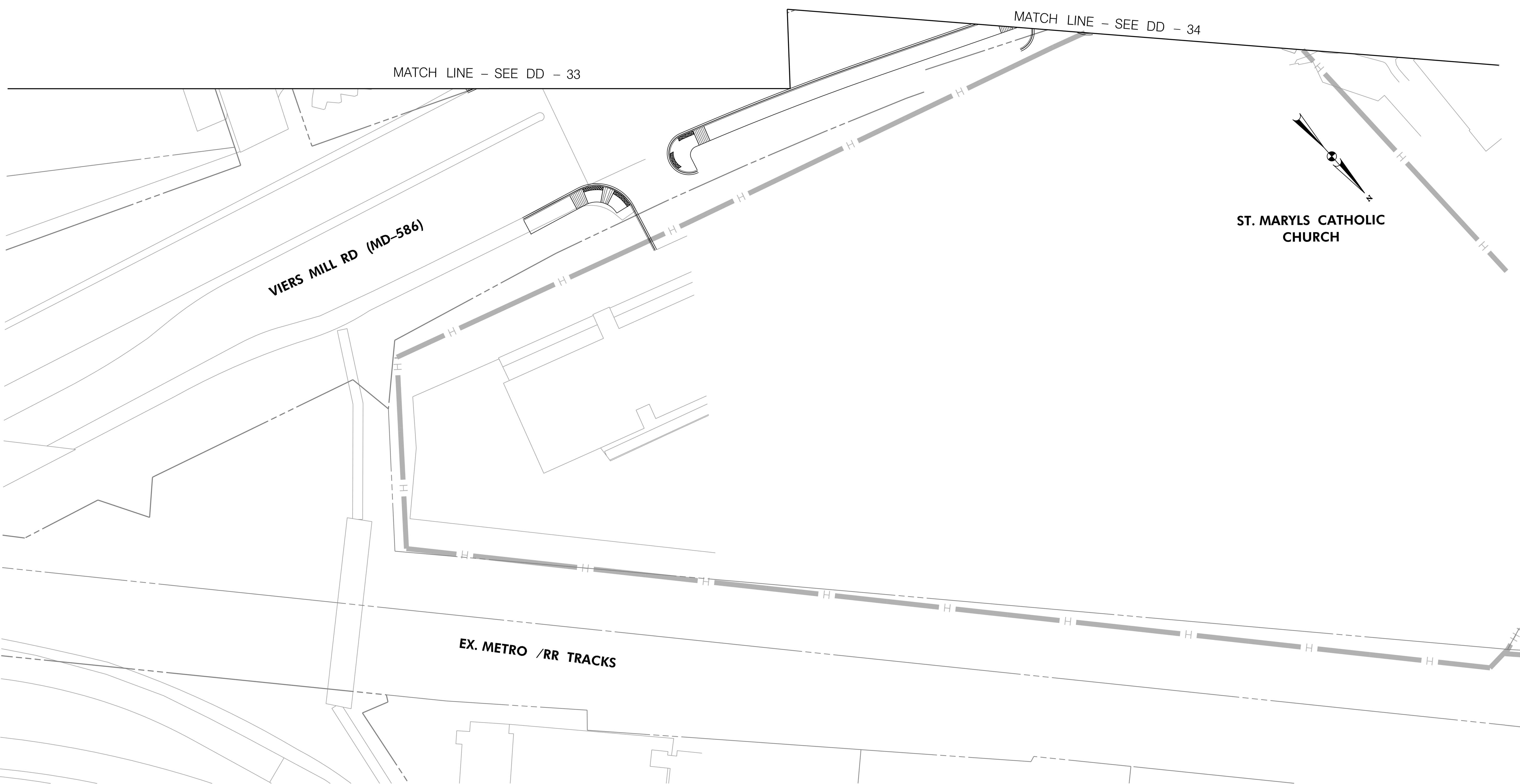
MD 355 BUS RAPID TRANSIT (BRT)
 DRAINAGE PLAN
 SEGMENT 2

SCALE : 1" = 30'
 DATE : DECEMBER 2022

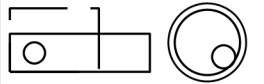
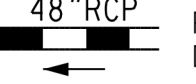




Project No. : 502005 SHEET 439 of 887

MATCH LINE - SEE DD - 33A

DD-33



LEGEND

-  PROPOSED DRAINAGE STRUCTURE
-  48" RCP (ASSUMED) PROPOSED DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
-  EXISTING DRAINAGE STRUCTURE
-  48" RCP EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
-  EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED
-  48" RCP EXISTING DRAINAGE PIPE TO BE ABANDONED / REMOVED

GENERAL STORM DRAIN LABEL NOTES:
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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section _____ Date _____

APPROVED

SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering _____ Date _____

Designed by : _____ Drawn by : _____ Checked by : _____

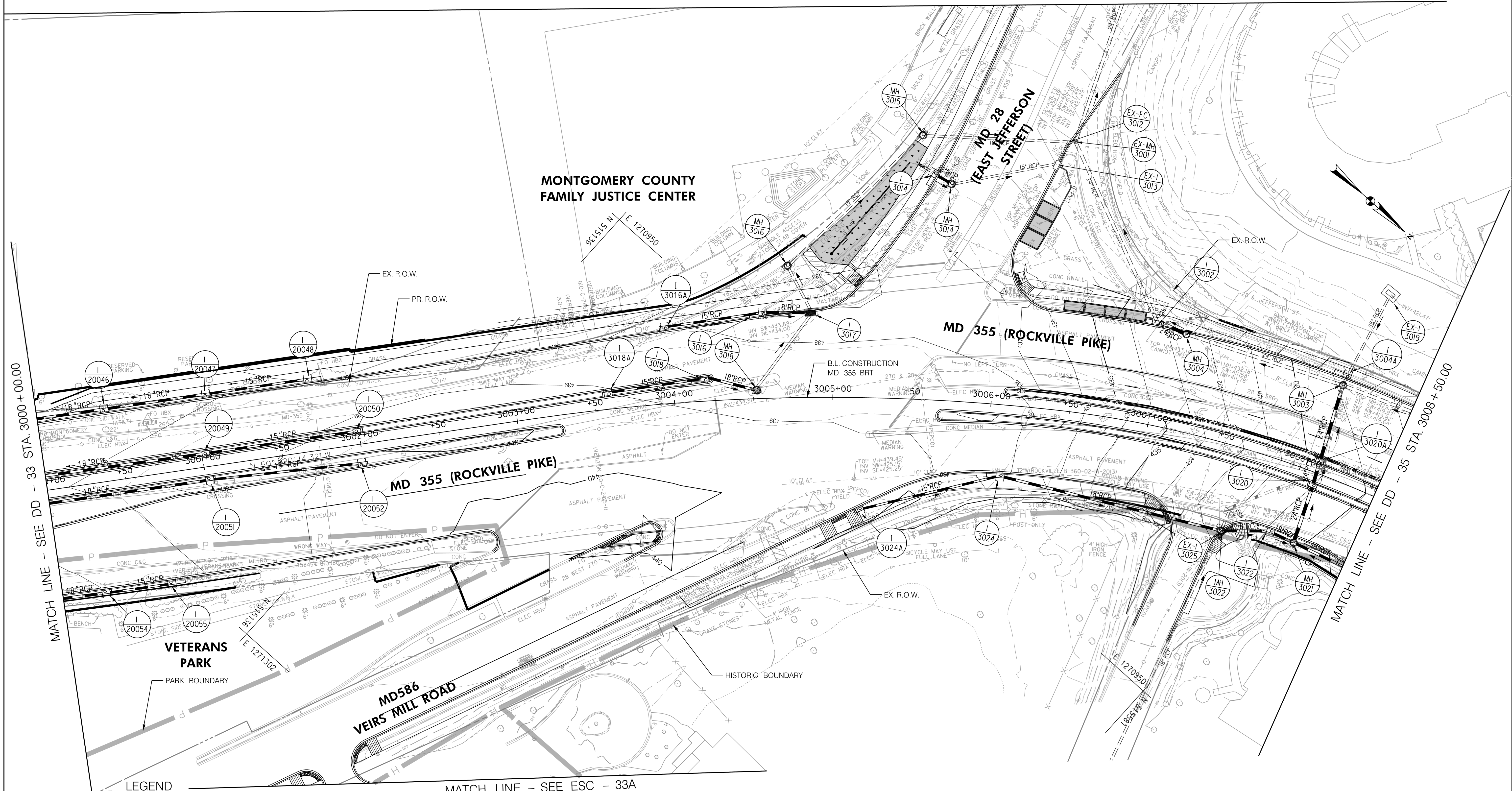
DD-33A

MD 355 BUS RAPID TRANSIT (BRT)

DRAINAGE PLAN
SEGMENT 2

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 440 of 887



LEGEND

	PROPOSED DRAINAGE STRUCTURE		PROPOSED 48" RCP DRAINAGE PIPE
	EXISTING DRAINAGE STRUCTURE		ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
	EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL		EXISTING DRAINAGE PIPE
	EXISTING DRAINAGE STRUCTURE TO BE ABANDONED / REMOVED		EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
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GAITHERSBURG, MARYLAND

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Chief, Design Section
Date _____

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Chief, Division of Transportation Engineering
Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

DD-34

MD 355 BUS RAPID TRANSIT (BRT)

DRAINAGE PLAN
SEGMENT 2 - SEGMENT 3

SCALE : 1" = 30'
DATE : DECEMBER 2022

Project No. : 502005
SHEET 441 of 887



LEGEND

MATCH LINE - SEE DD - 34

	PROPOSED DRAINAGE STRUCTURE		PROPOSED DRAINAGE PIPE
	EX. AERIAL/STREETVIEW DRAINAGE STRUCTURE TO CONNECT TO PROP. SYSTEM		ASSUMED EX. DRAINAGE PIPE TO CONNECT TO PROPOSED SYSTEM
	EXISTING DRAINAGE STRUCTURE TO REMAIN FUNCTIONAL		EXISTING DRAINAGE PIPE TO REMAIN FUNCTIONAL
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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
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 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section _____ Date _____

APPROVED

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 Chief, Division of Transportation Engineering _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

DD-34A

MD 355 BUS RAPID TRANSIT (BRT)

DRAINAGE PLAN
 SEGMENT 3

SCALE : 1" = 30'

DATE : DECEMBER 2022

Project No. : 502005 SHEET 442 of 887