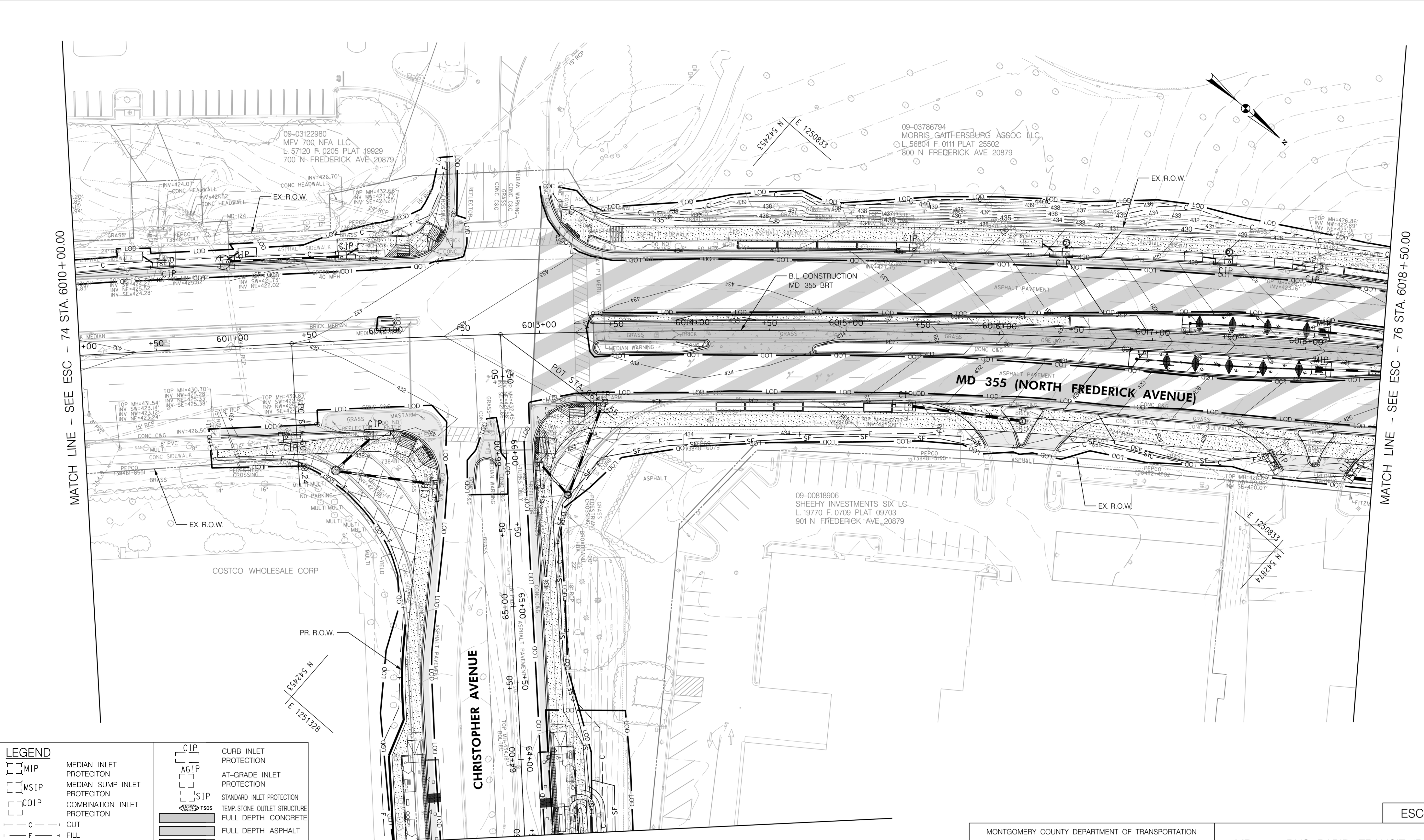


11/4/2022 P:\stntec-sc-pw-bentley.com\stntec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\35% Plans\ES Sheet Files\pES-0075_MD355BRT.dgn



LEGEND	
	MEDIAN INLET PROTECTION
	MEDIAN SUMP INLET PROTECTION
	COMBINATION INLET PROTECTION
	CUT
	FILL
	LIMIT OF DISTURBANCE
	EX. RIGHT OF WAY
	PR. RIGHT OF WAY
	PARK BOUNDARY
	HISTORICAL BOUNDARY
	SILT FENCE
	EARTH DIKE
	CURB INLET PROTECTION
	AT-GRADE INLET PROTECTION
	STANDARD INLET PROTECTION
	TEMP. STONE OUTLET STRUCTURE
	FULL DEPTH CONCRETE
	MILL /OVERLAY
	SIDEWALK
	CYCLE TRACK
	PAVEMENT REMOVAL
	RESIDENTIAL DISPLACEMENT
	BUSINESS DISPLACEMENT

MATCH LINE - SEE ESC - 71E STA. 63+50.00

SCALE: 1"=30'



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: _____

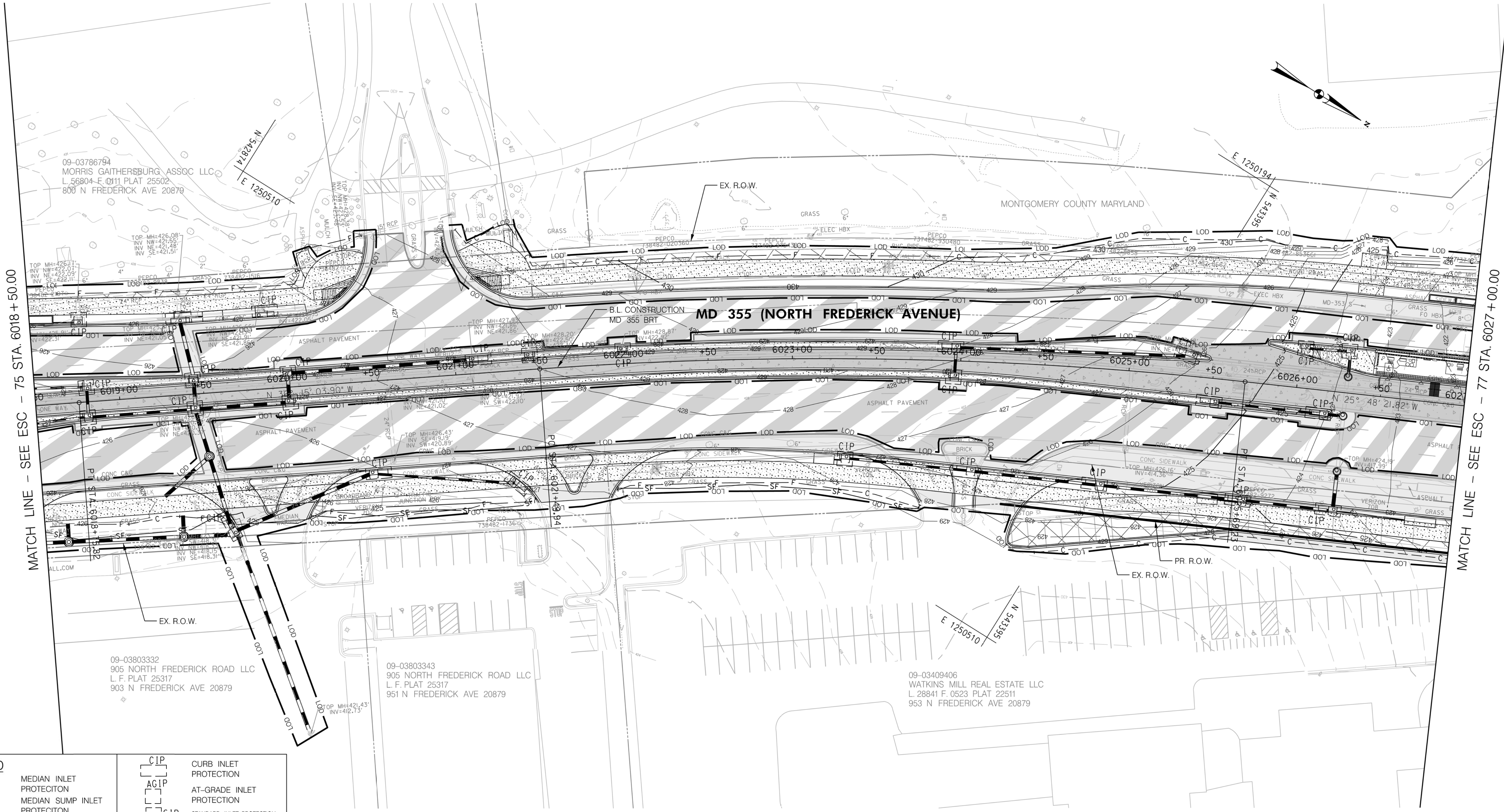
MD 355 BUS RAPID TRANSIT (BRT)
 EROSION AND SEDIMENT CONTROL PLAN
 SEGMENT 6

SCALE : NOT TO SCALE DATE : DECEMBER 2022

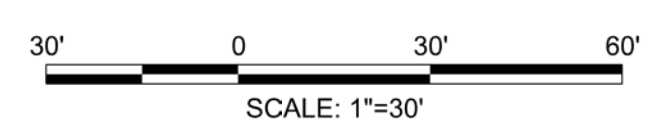
Project No. : 502005 SHEET 606 of 887

ESC-75

11/4/2022 P:\stntec-sc-pw-bentley.com\stntec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\35% Plans\ES Sheet Files\ES-0076-MD355BRT.dgn



LEGEND	
[Symbol]	MIP MEDIAN INLET PROTECTION
[Symbol]	MSIP MEDIAN SUMP INLET PROTECTION
[Symbol]	COIP COMBINATION INLET PROTECTION
[Symbol]	C CUT
[Symbol]	F FILL
[Symbol]	LOD LIMIT OF DISTURBANCE
[Symbol]	EX. R.O.W. EX. RIGHT OF WAY
[Symbol]	PR. R.O.W. PR. RIGHT OF WAY
[Symbol]	P PARK BOUNDARY
[Symbol]	H HISTORICAL BOUNDARY
[Symbol]	SF SILT FENCE
[Symbol]	A-1 EARTH DIKE
[Symbol]	CIP CURB INLET PROTECTION
[Symbol]	AGIP AT-GRADE INLET PROTECTION
[Symbol]	SIP STANDARD INLET PROTECTION
[Symbol]	TSOS TEMP. STONE OUTLET STRUCTURE
[Symbol]	FULL DEPTH CONCRETE
[Symbol]	FULL DEPTH ASPHALT
[Symbol]	MILL /OVERLAY
[Symbol]	SIDWALK
[Symbol]	CYCLE TRACK
[Symbol]	PAVEMENT REMOVAL
[Symbol]	R RESIDENTIAL DISPLACEMENT
[Symbol]	B BUSINESS DISPLACEMENT



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: _____

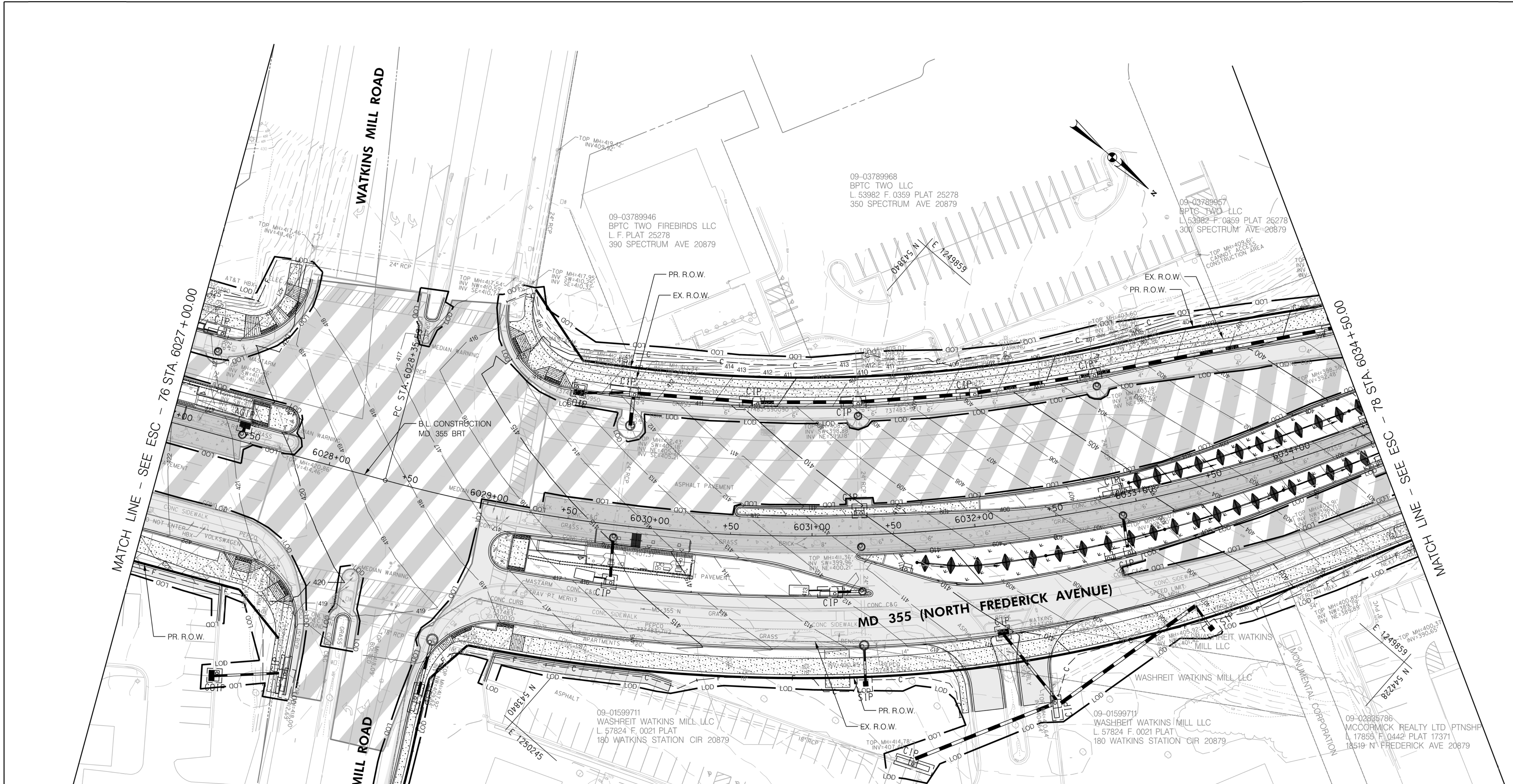
ESC-76

MD 355 BUS RAPID TRANSIT (BRT)
EROSION AND SEDIMENT CONTROL PLAN
SEGMENT 6

SCALE : NOT TO SCALE DATE : DECEMBER 2022

Project No. : 502005 SHEET 607 of 887

11/4/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\35% Plans\ES Sheet Files\pES-0077_MD355BRT.dgn



LEGEND	
[Symbol]	MIP MEDIAN INLET PROTECTION
[Symbol]	MSIP MEDIAN SUMP INLET PROTECTION
[Symbol]	COIP COMBINATION INLET PROTECTION
[Symbol]	CUT
[Symbol]	FILL
[Symbol]	LOD LIMIT OF DISTURBANCE
[Symbol]	EX. R.O.W. EX. RIGHT OF WAY
[Symbol]	PR. R.O.W. PR. RIGHT OF WAY
[Symbol]	P PARK BOUNDARY
[Symbol]	H HISTORICAL BOUNDARY
[Symbol]	BRT PATH
[Symbol]	SF SILT FENCE
[Symbol]	A-1 EARTH DIKE
[Symbol]	CIP CURB INLET PROTECTION
[Symbol]	AGIP AT-GRADE INLET PROTECTION
[Symbol]	SIP STANDARD INLET PROTECTION
[Symbol]	TSOS TEMP. STONE OUTLET STRUCTURE
[Symbol]	FULL DEPTH CONCRETE
[Symbol]	FULL DEPTH ASPHALT
[Symbol]	MILL /OVERLAY
[Symbol]	SIDEWALK
[Symbol]	CYCLE TRACK
[Symbol]	PAVEMENT REMOVAL
[Symbol]	R RESIDENTIAL DISPLACEMENT
[Symbol]	B BUSINESS DISPLACEMENT

SCALE: 1"=30'

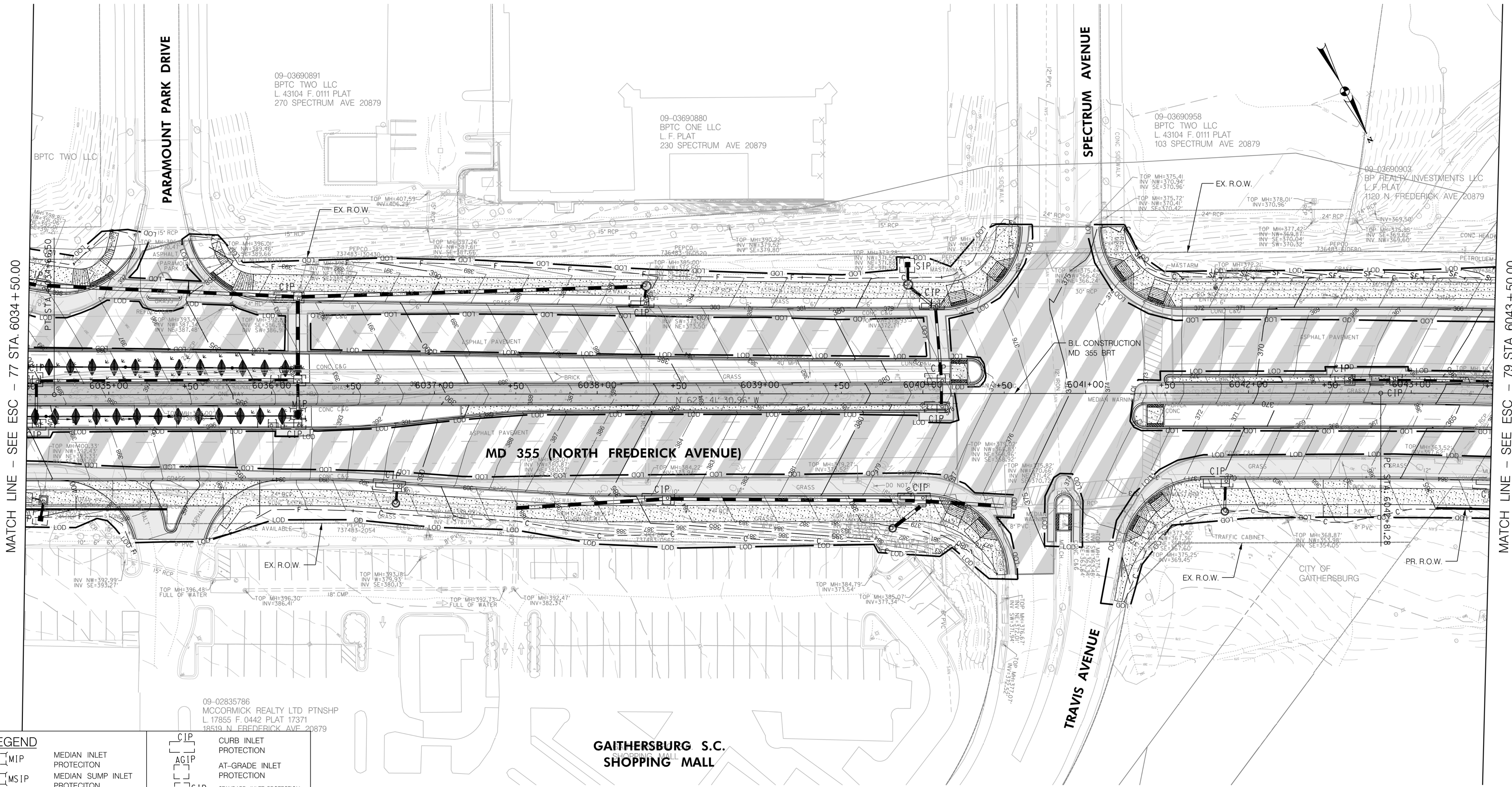
Stantec
 6110 FROST PLACE,
 LAUREL, MARYLAND 20707
 (301) 982-2800
 www.stantec.com

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: _____

ESC-77

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND			
MD 355 BUS RAPID TRANSIT (BRT) EROSION AND SEDIMENT CONTROL PLAN SEGMENT 6			
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: _____	
Project No. : 502005		SHEET 608 of 887	

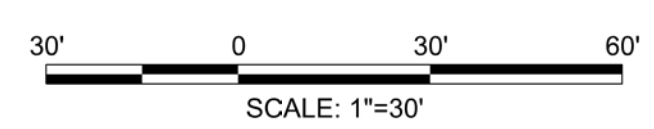
11/4/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\35% Plans\ES Sheet Files\ES-0078_MD355BRT.dgn



MATCH LINE - SEE ESC - 77 STA. 6034 + 50.00

MATCH LINE - SEE ESC - 79 STA. 6043 + 50.00

LEGEND	
	MEDIAN INLET PROTECTION
	MEDIAN SUMP INLET PROTECTION
	COMBINATION INLET PROTECTION
	CUT
	FILL
	LIMIT OF DISTURBANCE
	EX. RIGHT OF WAY
	PR. RIGHT OF WAY
	PARK BOUNDARY
	HISTORICAL BOUNDARY
	SILT FENCE
	EARTH DIKE
	CURB INLET PROTECTION
	AT-GRADE INLET PROTECTION
	STANDARD INLET PROTECTION
	TEMP. STONE OUTLET STRUCTURE
	FULL DEPTH CONCRETE
	FULL DEPTH ASPHALT
	MILL / OVERLAY
	SIDEWALK
	CYCLE TRACK
	PAVEMENT REMOVAL
	RESIDENTIAL DISPLACEMENT
	BUSINESS DISPLACEMENT



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)
 EROSION AND SEDIMENT CONTROL PLAN
 SEGMENT 6

SCALE : NOT TO SCALE DATE : DECEMBER 2022

Project No. : 502005 SHEET 609 of 887

ESC-78

09-03690903
BP REALTY INVESTMENTS LLC
L.F. PLAT
1120 N FREDERICK AVE 20879

09-03691018
SPECTRUM AT WATKINS MILL CONS INC
L 43104 F.0101 PLAT
401 PARAMOUNT PARK DR 20879

09-03229955
BREESA P PORTFOLIO MD TRUST
L 32417 F.0619 PLAT 20776
205 PROFESSIONAL DR 20879

09-03229966
BREESA MD PROPERTIES BUSINESS TR
L 27548 F.0205 PLAT 20776
201 PROFESSIONAL DR 20879

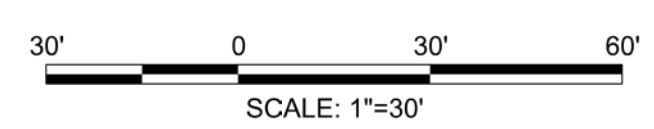
09-03229977
IO LIMITED PARTNERSHIP
L 17529 F.0402 PLAT 20776
3 PROFESSIONAL DR 20879

MATCH LINE - SEE ESC - 78 STA. 6043 + 50.00

MATCH LINE - SEE ESC - 80 STA. 6052 + 50.00

LEGEND

	MEDIAN INLET PROTECTION		CURB INLET PROTECTION
	MEDIAN SUMP INLET PROTECTION		AT-GRADE INLET PROTECTION
	COMBINATION INLET PROTECTION		STANDARD INLET PROTECTION
	CUT		TEMP. STONE OUTLET STRUCTURE
	FILL		FULL DEPTH CONCRETE
	LIMIT OF DISTURBANCE		FULL DEPTH ASPHALT
	EX. RIGHT OF WAY		MILL /OVERLAY
	PR. RIGHT OF WAY		SIDEWALK
	PARK BOUNDARY		CYCLE TRACK
	HISTORICAL BOUNDARY		PAVEMENT REMOVAL
	SILT FENCE		RESIDENTIAL DISPLACEMENT
	EARTH DIKE		BUSINESS DISPLACEMENT



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)

EROSION AND SEDIMENT CONTROL PLAN
SEGMENT 6

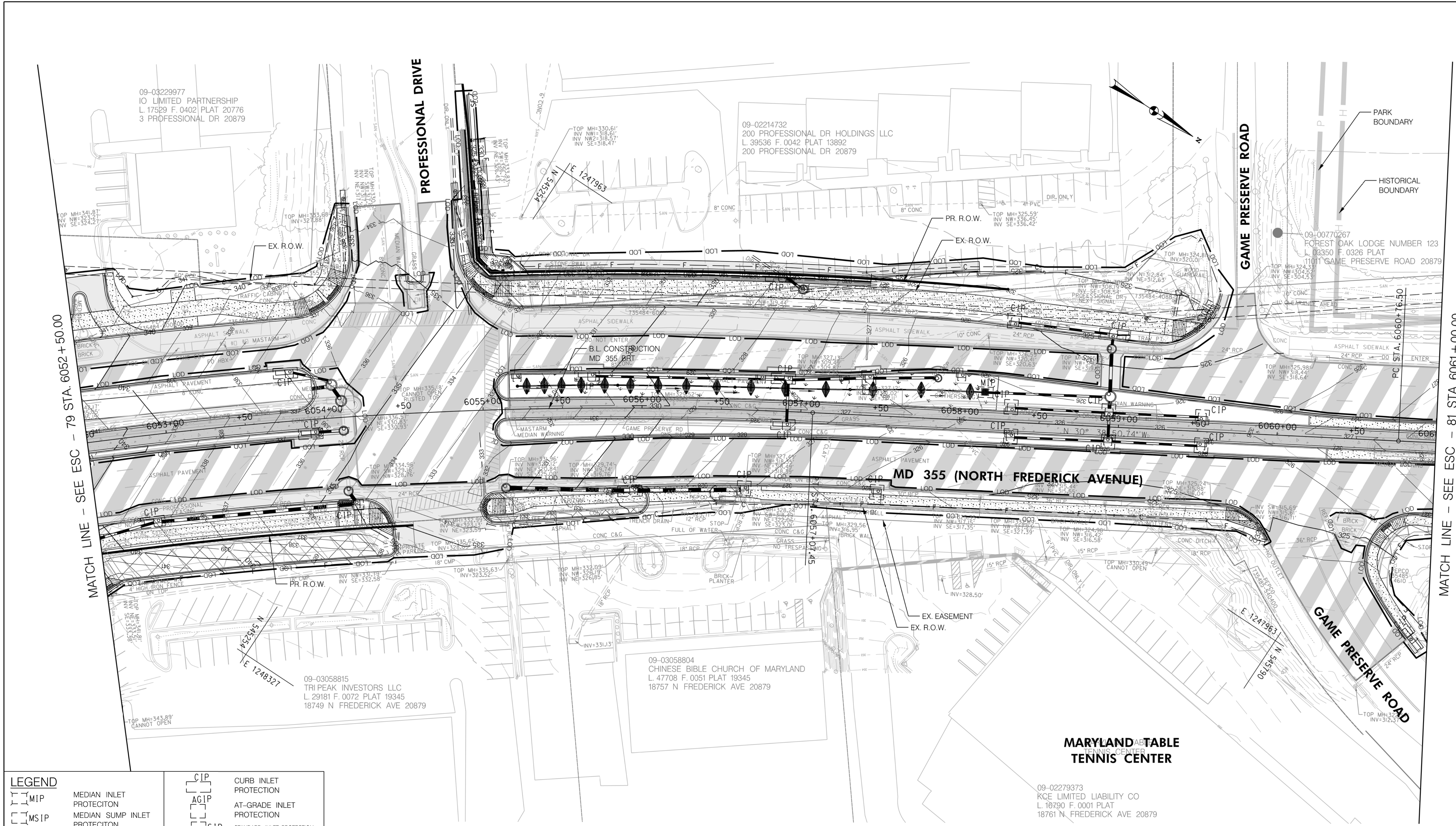
SCALE : NOT TO SCALE DATE : DECEMBER 2022

Project No. : 502005 SHEET 610 of 887

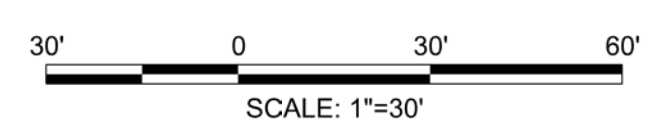
ESC-79

D:\stantec-sc-pw\stantec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\35% Sheet Files\pES-0079_MD355BRT.dgn 11/4/2022

11/4/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\35% Sheet Files\ES-0080-MD355BRT.dgn



LEGEND	
[Symbol]	MIP MEDIAN INLET PROTECTION
[Symbol]	MSIP MEDIAN SUMP INLET PROTECTION
[Symbol]	COIP COMBINATION INLET PROTECTION
[Symbol]	CUT
[Symbol]	FILL
[Symbol]	LOD LIMIT OF DISTURBANCE
[Symbol]	EX. RIGHT OF WAY
[Symbol]	PR. RIGHT OF WAY
[Symbol]	PARK BOUNDARY
[Symbol]	HISTORICAL BOUNDARY
[Symbol]	BRT PATH
[Symbol]	SILT FENCE
[Symbol]	EARTH DIKE
[Symbol]	CIP CURB INLET PROTECTION
[Symbol]	AGIP AT-GRADE INLET PROTECTION
[Symbol]	SIP STANDARD INLET PROTECTION
[Symbol]	TSOS TEMP. STONE OUTLET STRUCTURE
[Symbol]	FULL DEPTH CONCRETE
[Symbol]	FULL DEPTH ASPHALT
[Symbol]	MILL /OVERLAY
[Symbol]	SIDEWALK
[Symbol]	CYCLE TRACK
[Symbol]	PAVEMENT REMOVAL
[Symbol]	RESIDENTIAL DISPLACEMENT
[Symbol]	BUSINESS DISPLACEMENT



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)
 EROSION AND SEDIMENT CONTROL PLAN
 SEGMENT 6

SCALE : NOT TO SCALE DATE : DECEMBER 2022

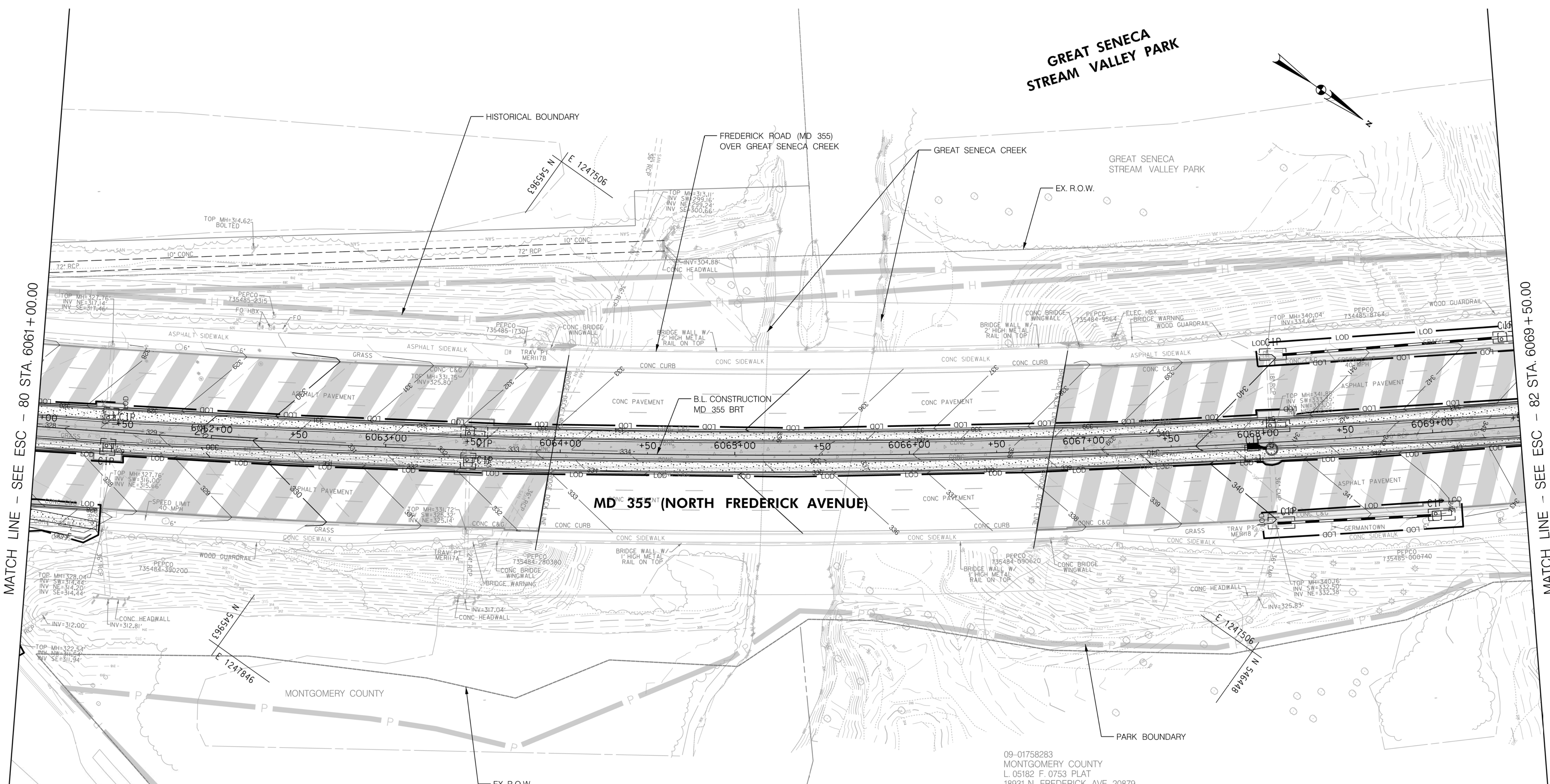
Project No. : 502005 SHEET 611 of 887

MATCH LINE - SEE ESC - 79 STA. 6052 + 50.00

ESC-80

MATCH LINE - SEE ESC - 81 STA. 6061 + 00.00

11/4/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\352 Sheet Files\ES-0081_MD355BRT.dgn

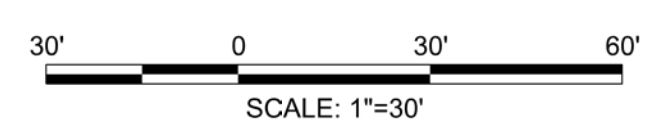


MD 355 (NORTH FREDERICK AVENUE)

MONTGOMERY COUNTY

09-01758283
MONTGOMERY COUNTY
L. 05182 F. 0753 PLAT
18931 N FREDERICK AVE 20879

LEGEND	
[Symbol]	MIP MEDIAN INLET PROTECTION
[Symbol]	MSIP MEDIAN SUMP INLET PROTECTION
[Symbol]	COIP COMBINATION INLET PROTECTION
[Symbol]	C CUT
[Symbol]	F FILL
[Symbol]	LOD LIMIT OF DISTURBANCE
[Symbol]	EX. R.O.W. EX. RIGHT OF WAY
[Symbol]	PR. R.O.W. PR. RIGHT OF WAY
[Symbol]	P PARK BOUNDARY
[Symbol]	H HISTORICAL BOUNDARY
[Symbol]	SF SILT FENCE
[Symbol]	A-1 EARTH DIKE
[Symbol]	CIP CURB INLET PROTECTION
[Symbol]	AGIP AT-GRADE INLET PROTECTION
[Symbol]	SIP STANDARD INLET PROTECTION
[Symbol]	TSOS TEMP. STONE OUTLET STRUCTURE
[Symbol]	FULL DEPTH CONCRETE
[Symbol]	FULL DEPTH ASPHALT
[Symbol]	MILL /OVERLAY
[Symbol]	SIDEWALK
[Symbol]	CYCLE TRACK
[Symbol]	PAVEMENT REMOVAL
[Symbol]	R RESIDENTIAL DISPLACEMENT
[Symbol]	B BUSINESS DISPLACEMENT



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: _____

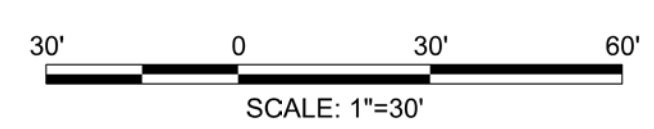
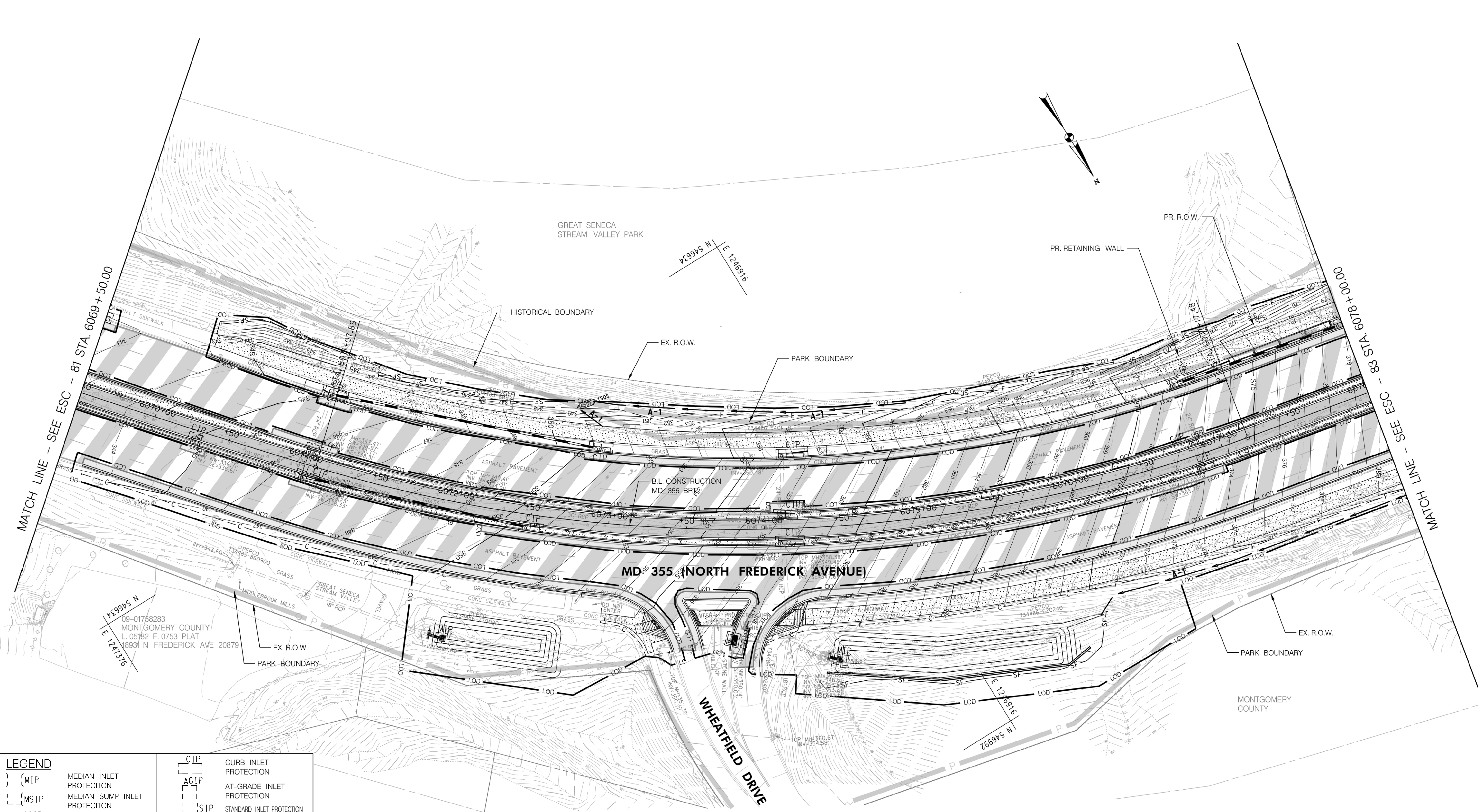
MD 355 BUS RAPID TRANSIT (BRT)
EROSION AND SEDIMENT CONTROL PLAN
SEGMENT 6

SCALE : NOT TO SCALE DATE : DECEMBER 2022

Project No. : 502005 SHEET 612 of 887

ESC-81

11/4/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\35% Plans\ES Sheet Files\ES-0082_MD355BRT.dgn



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: _____

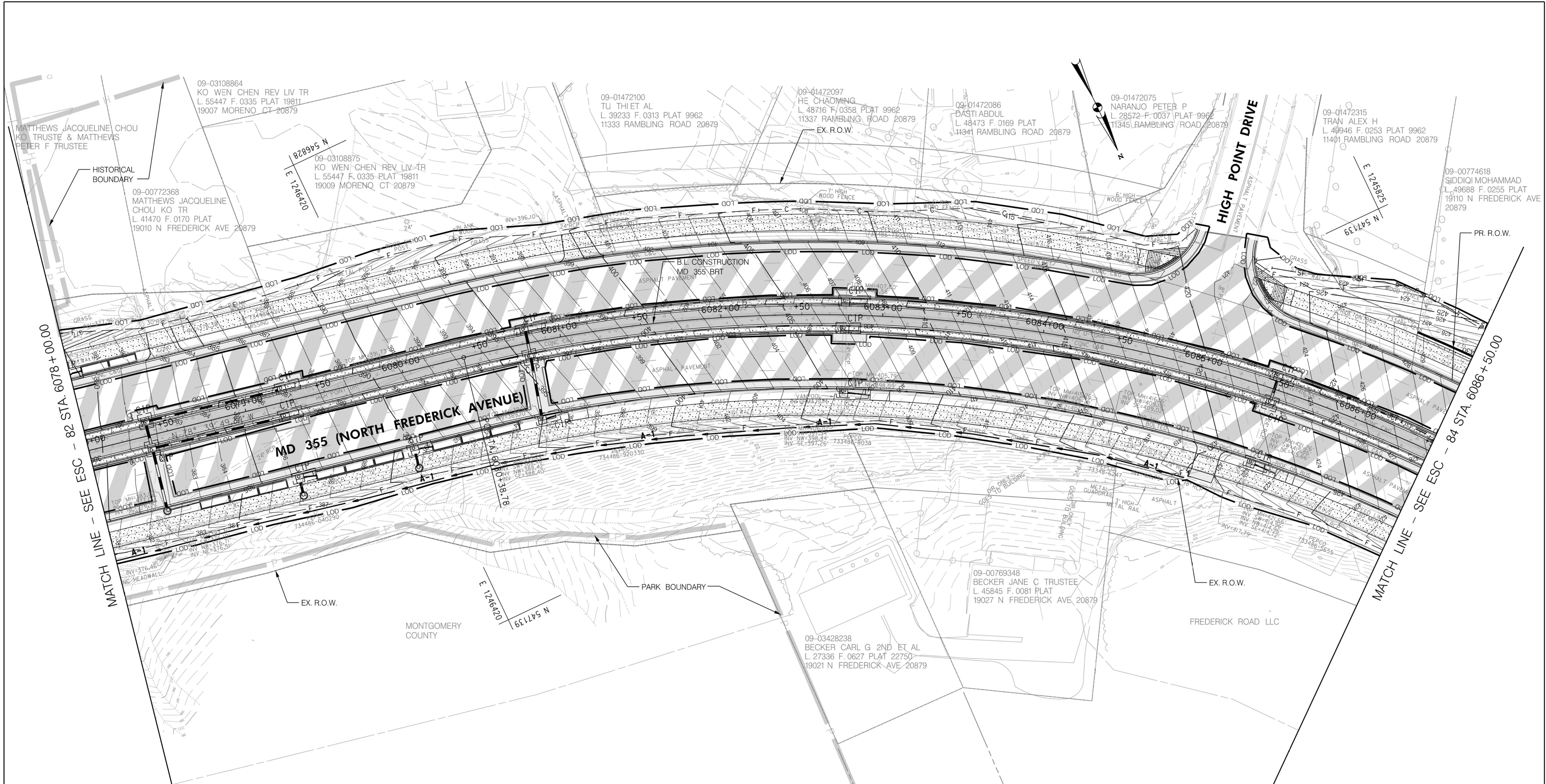
ESC-82

MD 355 BUS RAPID TRANSIT (BRT)
 EROSION AND SEDIMENT CONTROL PLAN
 SEGMENT 6

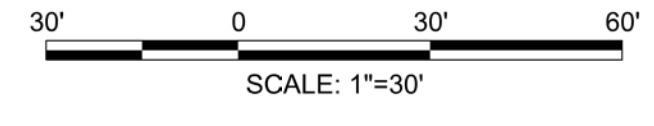
SCALE : NOT TO SCALE DATE : DECEMBER 2022

Project No. : 502005 SHEET 613 of 887

11/4/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\352 Plans\ES Sheet Files\ES-0083_MD355BRT.dgn



LEGEND	
	MEDIAN INLET PROTECTION
	MEDIAN SUMP INLET PROTECTION
	COMBINATION INLET PROTECTION
	CUT
	FILL
	LIMIT OF DISTURBANCE
	EX. RIGHT OF WAY
	PR. RIGHT OF WAY
	PARK BOUNDARY
	HISTORICAL BOUNDARY
	SILT FENCE
	EARTH DIKE
	CURB INLET PROTECTION
	AT-GRADE INLET PROTECTION
	STANDARD INLET PROTECTION
	TEMP. STONE OUTLET STRUCTURE
	FULL DEPTH CONCRETE
	FULL DEPTH ASPHALT
	MILL /OVERLAY
	SIDEWALK
	CYCLE TRACK
	PAVEMENT REMOVAL
	RESIDENTIAL DISPLACEMENT
	BUSINESS DISPLACEMENT



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: _____

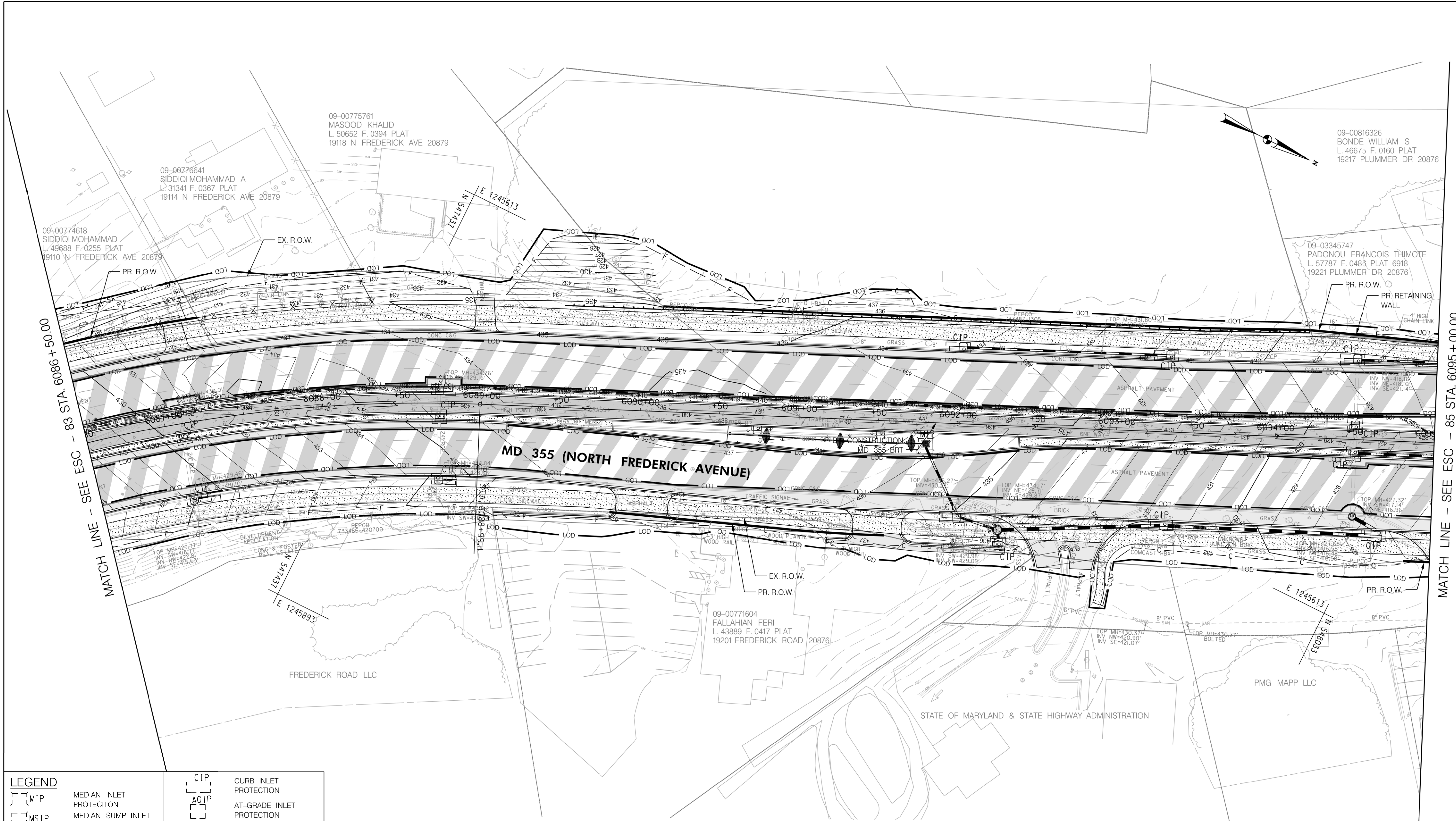
ESC-83

MD 355 BUS RAPID TRANSIT (BRT)
 EROSION AND SEDIMENT CONTROL PLAN
 SEGMENT 6

SCALE : NOT TO SCALE DATE : DECEMBER 2022

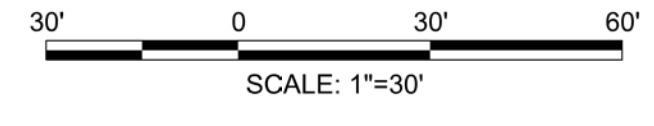
Project No. : 502005 SHEET 614 of 887

11/4/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\35% Plans\ES Sheet Files\ES-0084_MD355BRT.dgn



LEGEND

	MEDIAN INLET PROTECTION		CURB INLET PROTECTION
	MEDIAN SUMP INLET PROTECTION		AT-GRADE INLET PROTECTION
	COMBINATION INLET PROTECTION		STANDARD INLET PROTECTION
	CUT		TEMP. STONE OUTLET STRUCTURE
	FILL		FULL DEPTH CONCRETE
	LIMIT OF DISTURBANCE		FULL DEPTH ASPHALT
	EX. RIGHT OF WAY		MILL / OVERLAY
	PR. RIGHT OF WAY		SIDEWALK
	PARK BOUNDARY		CYCLE TRACK
	HISTORICAL BOUNDARY		PAVEMENT REMOVAL
	BRT PATH		RESIDENTIAL DISPLACEMENT
	SILT FENCE		BUSINESS DISPLACEMENT
	EARTH DIKE		



Stantec
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)
EROSION AND SEDIMENT CONTROL PLAN
SEGMENT 6

SCALE : NOT TO SCALE DATE : DECEMBER 2022

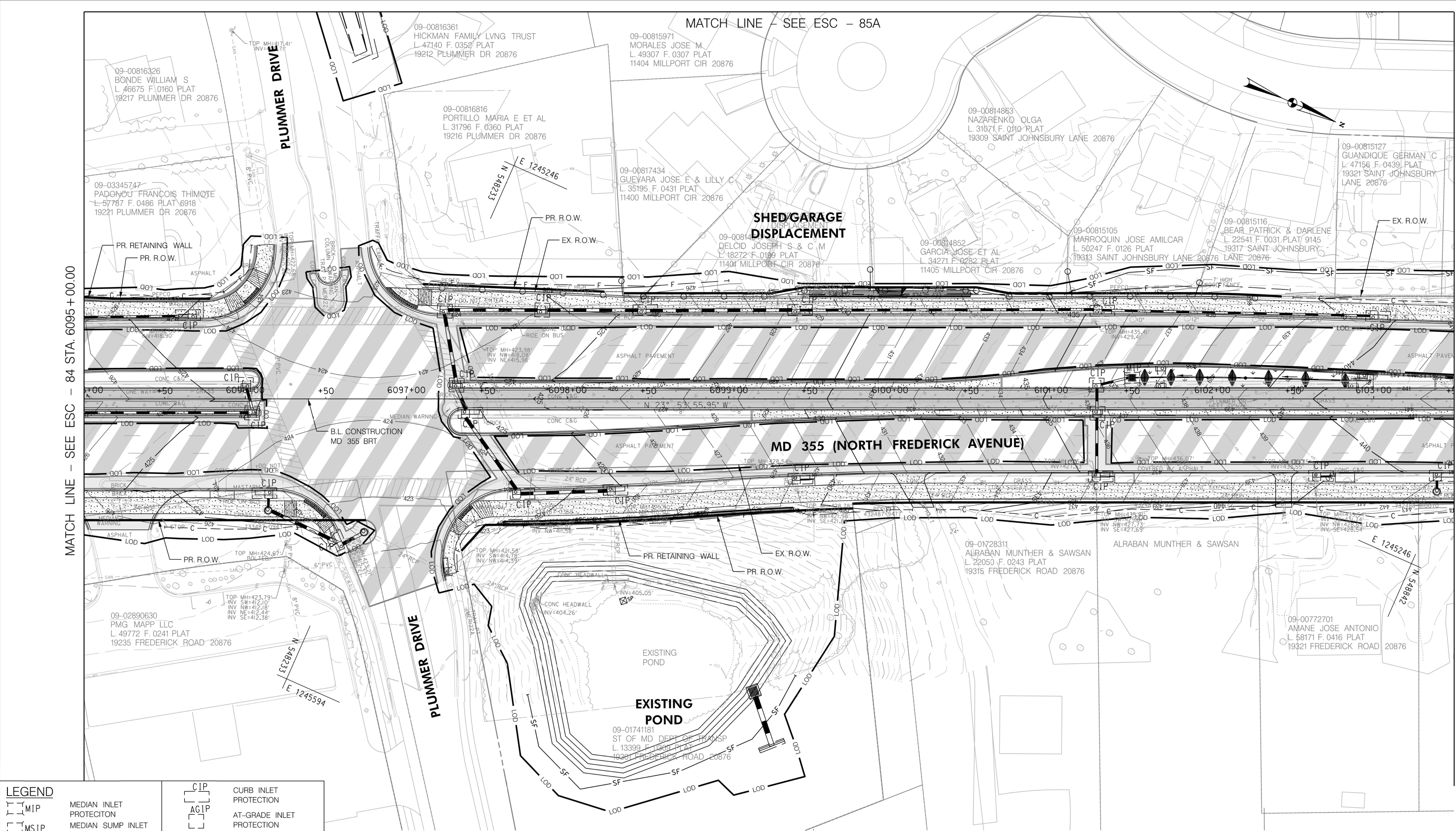
Project No. : 502005 SHEET 615 of 887

ESC-84

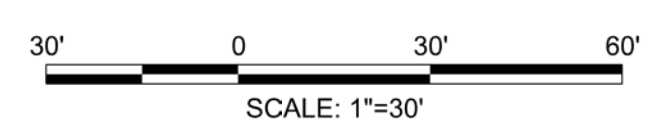
MATCH LINE - SEE ESC - 83 STA. 6086 + 50.00

MATCH LINE - SEE ESC - 85 STA. 6095 + 00.00

11/4/2022 P:\stntec-sc-pw-bentley.com\stntec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\35% Plans\ES Sheet Files\ES-0085_MD355BRT.dgn



LEGEND	
	MEDIAN INLET PROTECTION
	MEDIAN SUMP INLET PROTECTION
	COMBINATION INLET PROTECTION
	CUT
	FILL
	LIMIT OF DISTURBANCE
	EX. RIGHT OF WAY
	PR. RIGHT OF WAY
	PARK BOUNDARY
	HISTORICAL BOUNDARY
	BRT PATH
	SILT FENCE
	EARTH DIKE
	CURB INLET PROTECTION
	AT-GRADE INLET PROTECTION
	STANDARD INLET PROTECTION
	TEMP. STONE OUTLET STRUCTURE FULL DEPTH CONCRETE
	FULL DEPTH ASPHALT
	MILL /OVERLAY
	SIDEWALK
	CYCLE TRACK
	PAVEMENT REMOVAL
	RESIDENTIAL DISPLACEMENT
	BUSINESS DISPLACEMENT



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)
 EROSION AND SEDIMENT CONTROL PLAN
 SEGMENT 6

SCALE : NOT TO SCALE DATE : DECEMBER 2022

Project No. : 502005 SHEET 616 of 887

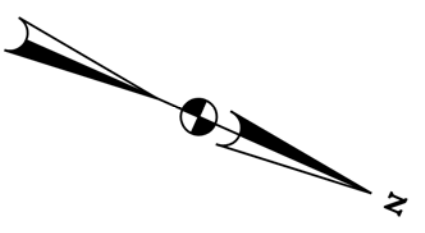
ESC-85

MATCH LINE - SEE ESC - 84 STA. 6095 + 00.00

MATCH LINE - SEE ESC - 86 STA. 6103 + 50.00

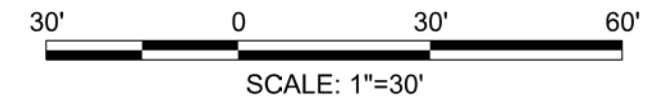
MATCH LINE - SEE ESC - 85A

II/4/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\352 Plans\ES Sheet Files\ES-0085A_MD355BRT.dgn



MATCH LINE - SEE ESC - 85

LEGEND	
	MIP MEDIAN INLET PROTECTION
	MSIP MEDIAN SUMP INLET PROTECTION
	COIP COMBINATION INLET PROTECTION
	C CUT
	F FILL
	LOD LIMIT OF DISTURBANCE
	EX. RIGHT OF WAY
	PR. RIGHT OF WAY
	P PARK BOUNDARY
	H HISTORICAL BOUNDARY
	BRT PATH
	SF SILT FENCE
	A-1 EARTH DIKE
	CIP CURB INLET PROTECTION
	AGIP AT-GRADE INLET PROTECTION
	SIP STANDARD INLET PROTECTION
	TSOS TEMP. STONE OUTLET STRUCTURE
	FULL DEPTH CONCRETE
	FULL DEPTH ASPHALT
	MILL / OVERLAY
	SIDEWALK
	CYCLE TRACK
	PAVEMENT REMOVAL
	R RESIDENTIAL DISPLACEMENT
	B BUSINESS DISPLACEMENT



Stantec
 6110 FROST PLACE,
 LAUREL, MARYLAND 20707
 (301) 962-2800
 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

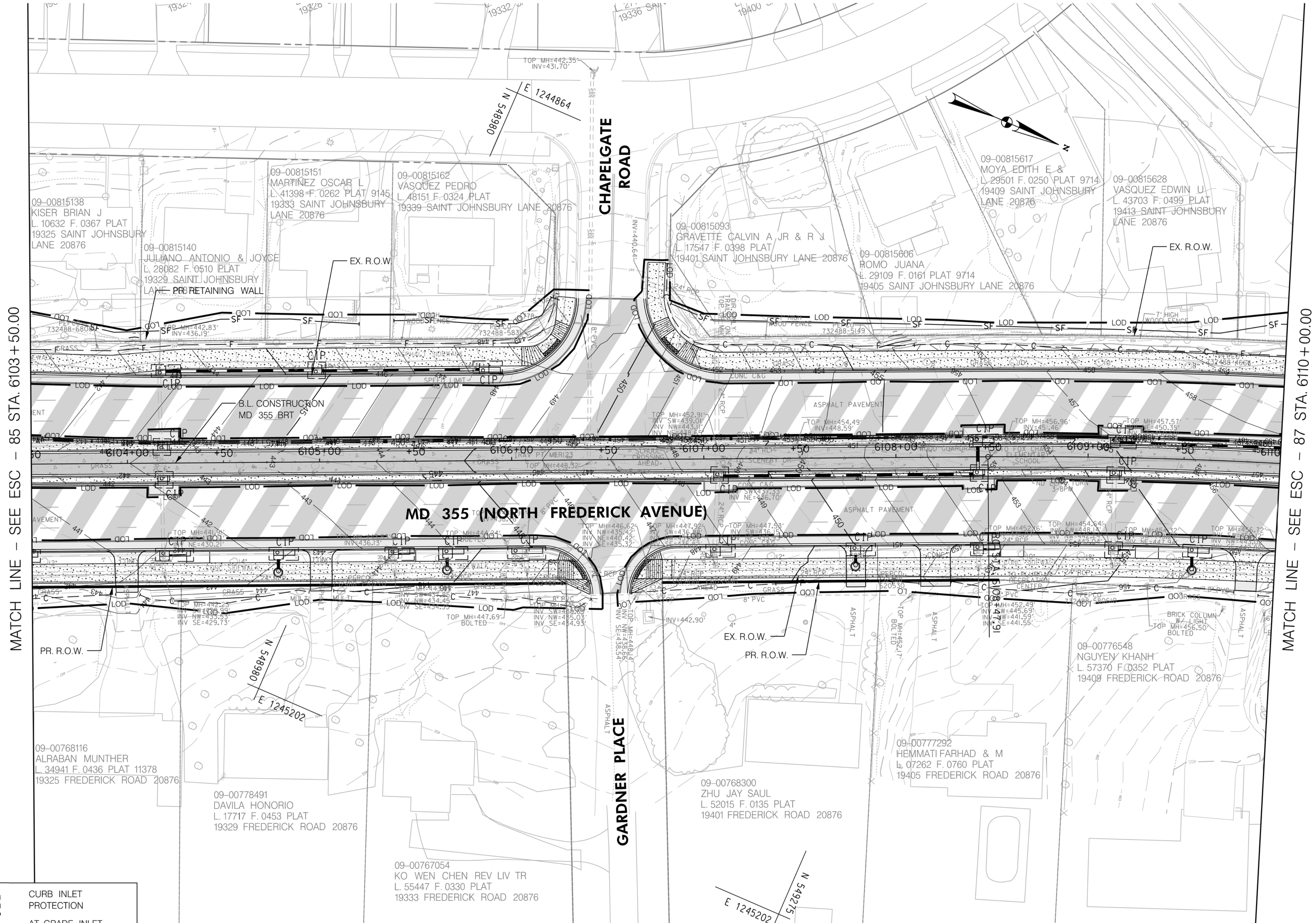
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

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: _____

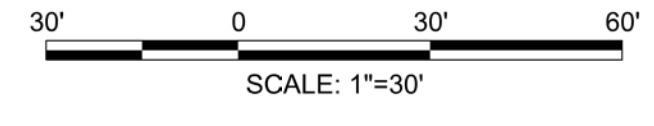
MD 355 BUS RAPID TRANSIT (BRT)
 EROSION AND SEDIMENT
 CONTROL PLAN
 SEGMENT 6
 SCALE : NOT TO SCALE DATE : DECEMBER 2022
 Project No. : 502005 SHEET 617 of 887

ESC-85A

11/4/2022 P:\stantec-sc-pw\stantec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\35% Plans\ES Sheet Files\ES-0086_MD355BRT.dgn



LEGEND	
	MEDIAN INLET PROTECTION
	MEDIAN SUMP INLET PROTECTION
	COMBINATION INLET PROTECTION
	CUT
	FILL
	LIMIT OF DISTURBANCE
	EX. RIGHT OF WAY
	PR. RIGHT OF WAY
	PARK BOUNDARY
	HISTORICAL BOUNDARY
	BRT PATH
	SILT FENCE
	EARTH DIKE
	CURB INLET PROTECTION
	AT-GRADE INLET PROTECTION
	STANDARD INLET PROTECTION
	TEMP. STONE OUTLET STRUCTURE
	FULL DEPTH CONCRETE
	FULL DEPTH ASPHALT
	MILL / OVERLAY
	SIDEWALK
	CYCLE TRACK
	PAVEMENT REMOVAL
	RESIDENTIAL DISPLACEMENT
	BUSINESS DISPLACEMENT



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: _____

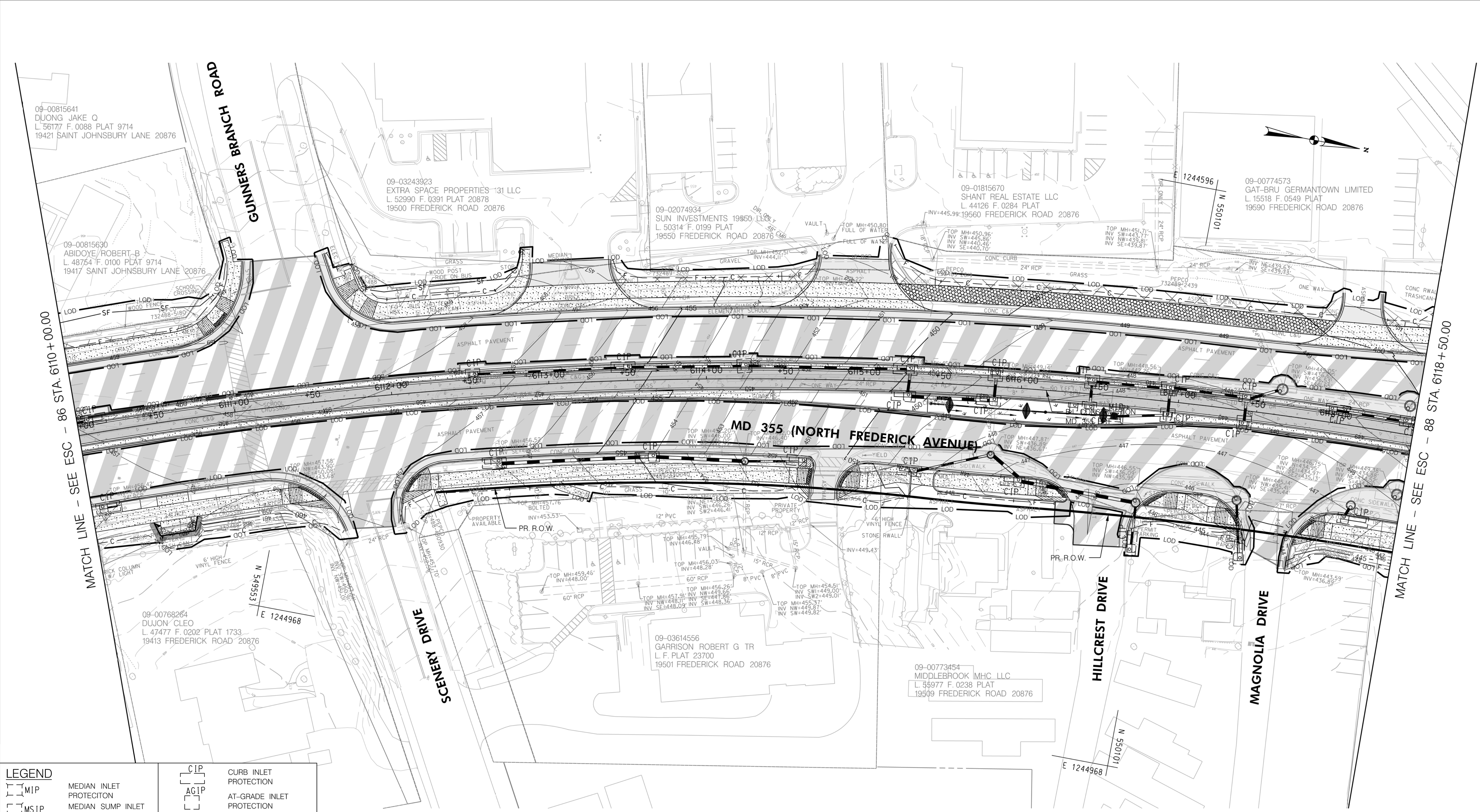
ESC-86

MD 355 BUS RAPID TRANSIT (BRT)
 EROSION AND SEDIMENT CONTROL PLAN
 SEGMENT 6

SCALE : NOT TO SCALE DATE : DECEMBER 2022

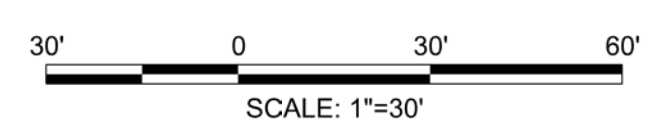
Project No. : 502005 SHEET 618 of 887

I:\4/2022\pw\stantec-sc-pw-bentley.com\stntec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\35% Sheet Files\ES-0087_MD355BRT.dgn



LEGEND

	MEDIAN INLET PROTECTION		CURB INLET PROTECTION
	MEDIAN SUMP INLET PROTECTION		AT-GRADE INLET PROTECTION
	COMBINATION INLET PROTECTION		STANDARD INLET PROTECTION
	CUT		TEMP. STONE OUTLET STRUCTURE
	FILL		FULL DEPTH CONCRETE
	LIMIT OF DISTURBANCE		FULL DEPTH ASPHALT
	EX. RIGHT OF WAY		MILL /OVERLAY
	PR. RIGHT OF WAY		SIDEWALK
	PARK BOUNDARY		CYCLE TRACK
	HISTORICAL BOUNDARY		PAVEMENT REMOVAL
	BRT PATH		RESIDENTIAL DISPLACEMENT
	SILT FENCE		BUSINESS DISPLACEMENT
	EARTH DIKE		



Stantec
 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

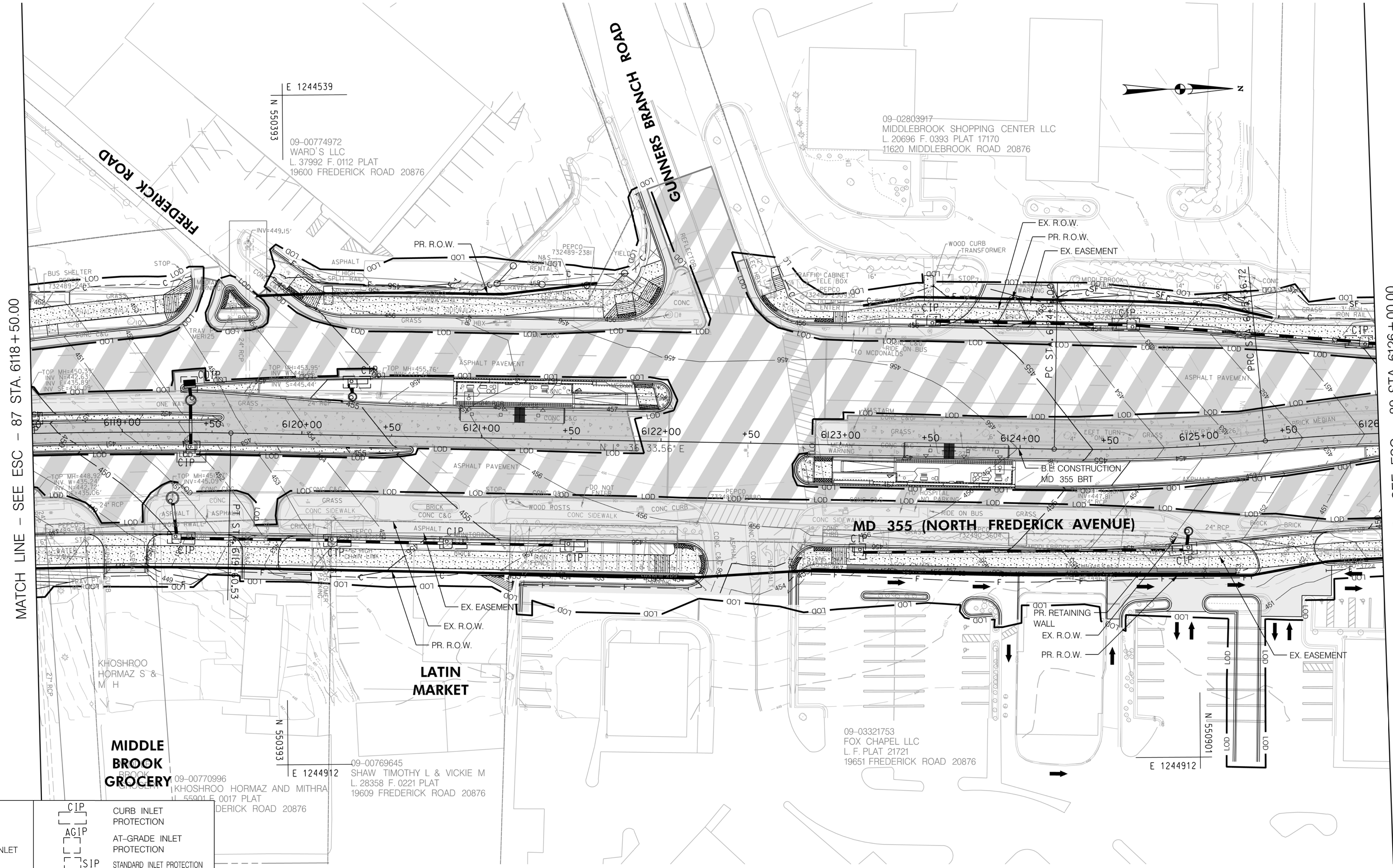
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 GAITHERSBURG, MARYLAND

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)
 EROSION AND SEDIMENT CONTROL PLAN
 SEGMENT 6
 SCALE : NOT TO SCALE DATE : DECEMBER 2022
 Project No. : 502005 SHEET 619 of 887

ESC-87

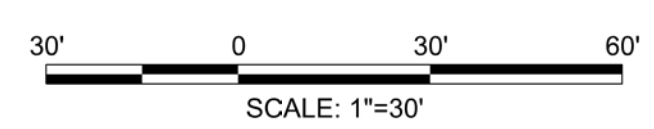
11/4/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\35% Plans\ES Sheet Files\ES-0088_MD355BRT.dgn



MATCH LINE - SEE ESC - 87 STA. 6118 + 50.00

MATCH LINE - SEE ESC - 89 STA. 6126 + 00.00

LEGEND	
	MEDIAN INLET PROTECTION
	MEDIAN SUMP INLET PROTECTION
	COMBINATION INLET PROTECTION
	CUT
	FILL
	LIMIT OF DISTURBANCE
	EX. RIGHT OF WAY
	PR. RIGHT OF WAY
	PARK BOUNDARY
	HISTORICAL BOUNDARY
	BRT PATH
	SILT FENCE
	EARTH DIKE
	CURB INLET PROTECTION
	AT-GRADE INLET PROTECTION
	STANDARD INLET PROTECTION
	TEMP. STONE OUTLET STRUCTURE
	FULL DEPTH CONCRETE
	FULL DEPTH ASPHALT
	MILL /OVERLAY
	SIDEWALK
	CYCLE TRACK
	PAVEMENT REMOVAL
	RESIDENTIAL DISPLACEMENT
	BUSINESS DISPLACEMENT



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

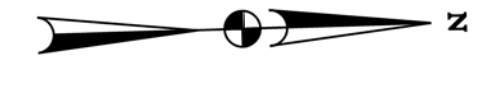
RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section _____ Date _____
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering _____ Date _____
 Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
 EROSION AND SEDIMENT CONTROL PLAN
 SEGMENT 6

SCALE : NOT TO SCALE DATE : DECEMBER 2022
 Project No. : 502005 SHEET 620 of 887

ESC-88

MATCH LINE - SEE ESC - 88A

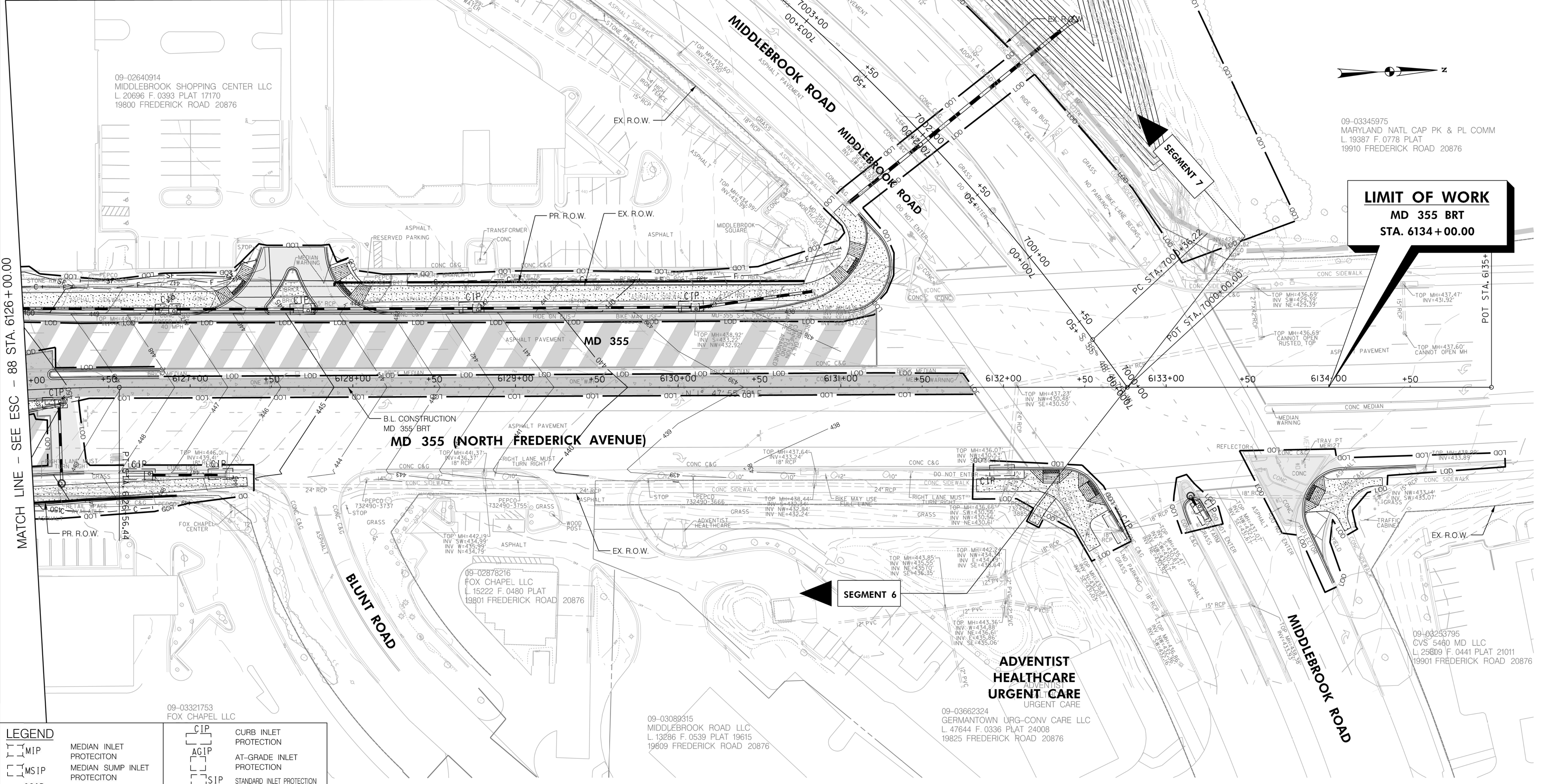


09-02640914
MIDDLEBROOK SHOPPING CENTER LLC
L. 20696 F. 0393 PLAT 17170
19800 FREDERICK ROAD 20876

09-03345975
MARYLAND NATL CAP PK & PL COMM
L. 19387 F. 0778 PLAT
19910 FREDERICK ROAD 20876

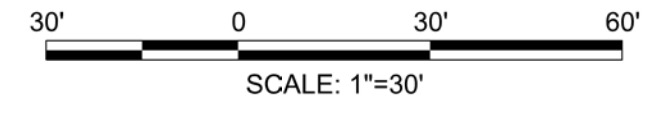
LIMIT OF WORK
MD 355 BRT
STA. 6134+00.00

MATCH LINE - SEE ESC - 88 STA. 6126+00.00



LEGEND

	MIP MEDIAN INLET PROTECTION		CIP CURB INLET PROTECTION
	MSIP MEDIAN SUMP INLET PROTECTION		AGIP AT-GRADE INLET PROTECTION
	COIP COMBINATION INLET PROTECTION		SIP STANDARD INLET PROTECTION
	C CUT		TSOS TEMP. STONE OUTLET STRUCTURE
	F FILL		FC FULL DEPTH CONCRETE
	LOD LIMIT OF DISTURBANCE		MO MILL / OVERLAY
	EX. R.O.W. EX. RIGHT OF WAY		S SIDEWALK
	PR. R.O.W. PR. RIGHT OF WAY		CT CYCLE TRACK
	P PARK BOUNDARY		PR PAVEMENT REMOVAL
	H HISTORICAL BOUNDARY		R RESIDENTIAL DISPLACEMENT
	BRT BRT PATH		B BUSINESS DISPLACEMENT
	SF SILT FENCE		
	A-1 EARTH DIKE		



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)

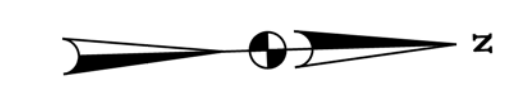
EROSION AND SEDIMENT CONTROL PLAN
SEGMENT 6 - SEGMENT 7

SCALE : NOT TO SCALE DATE : DECEMBER 2022

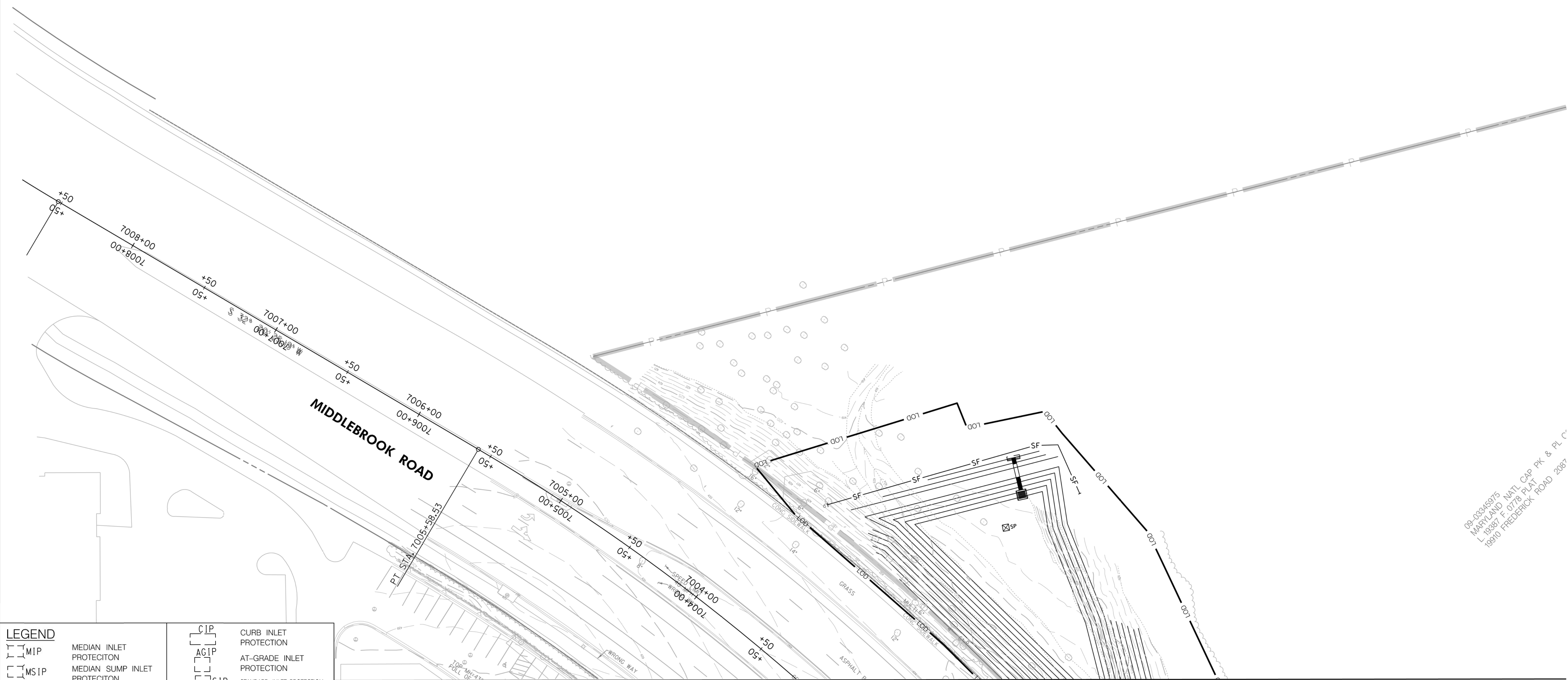
Project No. : 502005 SHEET 621 of 887

11/4/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\2022\1306\700 CADD\702 Civil\352 Sheet Files\ES-0089-MD355BRT.dgn

ESC-89



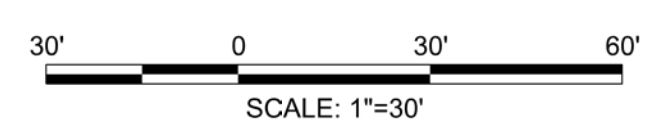
11/4/2022 P:\stntec-sc-pw\stntec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\35% Plans\ES Sheet Files\ES-0089A_MD355BRT.dgn



08-03448975
MARYLAND NATL CAP PK & PL C
L 1088 F 0778 PLAT
18910 FREDERICK ROAD 2087

LEGEND	
	MEDIAN INLET PROTECTION
	MEDIAN SUMP INLET PROTECTION
	COMBINATION INLET PROTECTION
	CUT
	FILL
	LIMIT OF DISTURBANCE
	EX. RIGHT OF WAY
	PR. RIGHT OF WAY
	PARK BOUNDARY
	HISTORICAL BOUNDARY
	BRT PATH
	SILT FENCE
	EARTH DIKE
	CURB INLET PROTECTION
	AT-GRADE INLET PROTECTION
	STANDARD INLET PROTECTION
	TEMP. STONE OUTLET STRUCTURE
	FULL DEPTH CONCRETE
	FULL DEPTH ASPHALT
	MILL /OVERLAY
	SIDEWALK
	CYCLE TRACK
	PAVEMENT REMOVAL
	RESIDENTIAL DISPLACEMENT
	BUSINESS DISPLACEMENT

MATCH LINE - SEE ESC - 89



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 _____ 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)
EROSION AND SEDIMENT CONTROL PLAN
SEGMENT 6 - SEGMENT 7

SCALE : NOT TO SCALE DATE : DECEMBER 2022

Project No. : 502005 SHEET 622 of 887

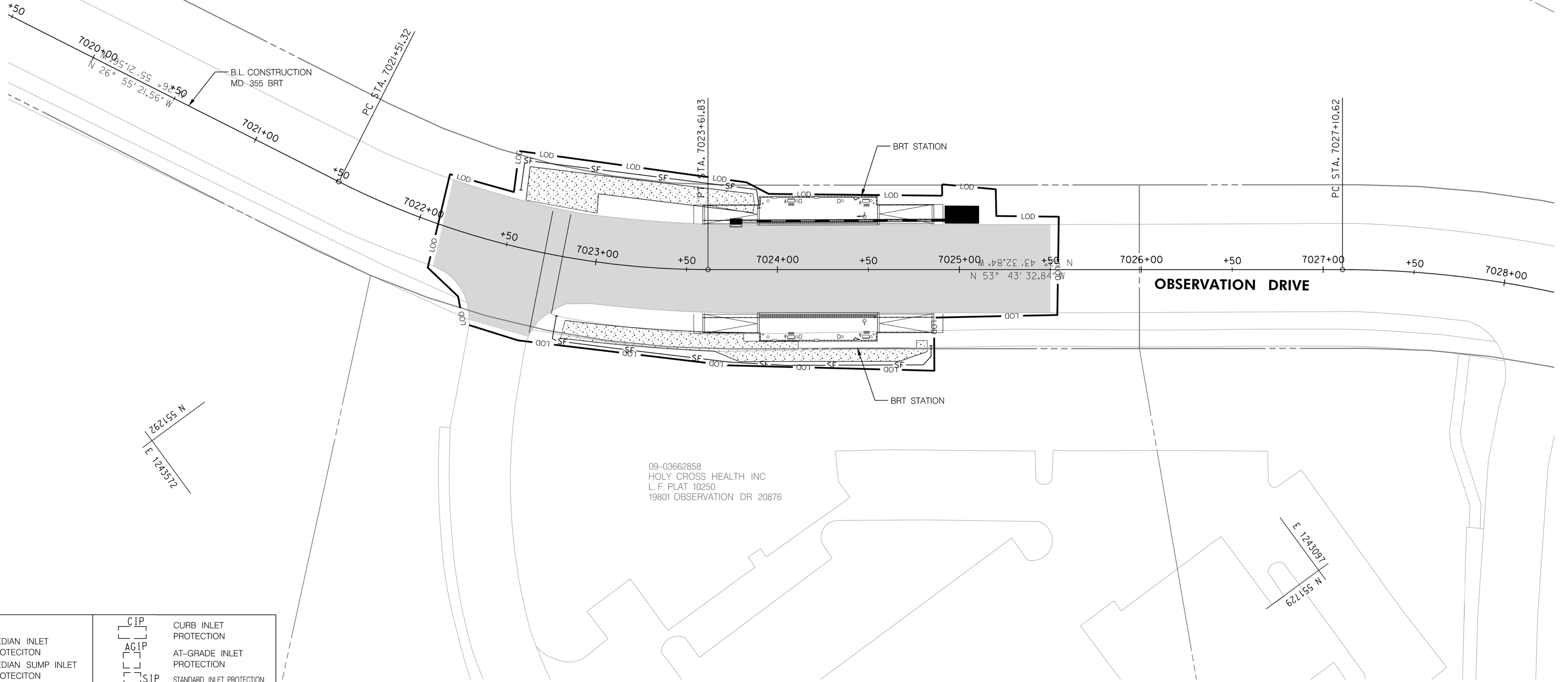
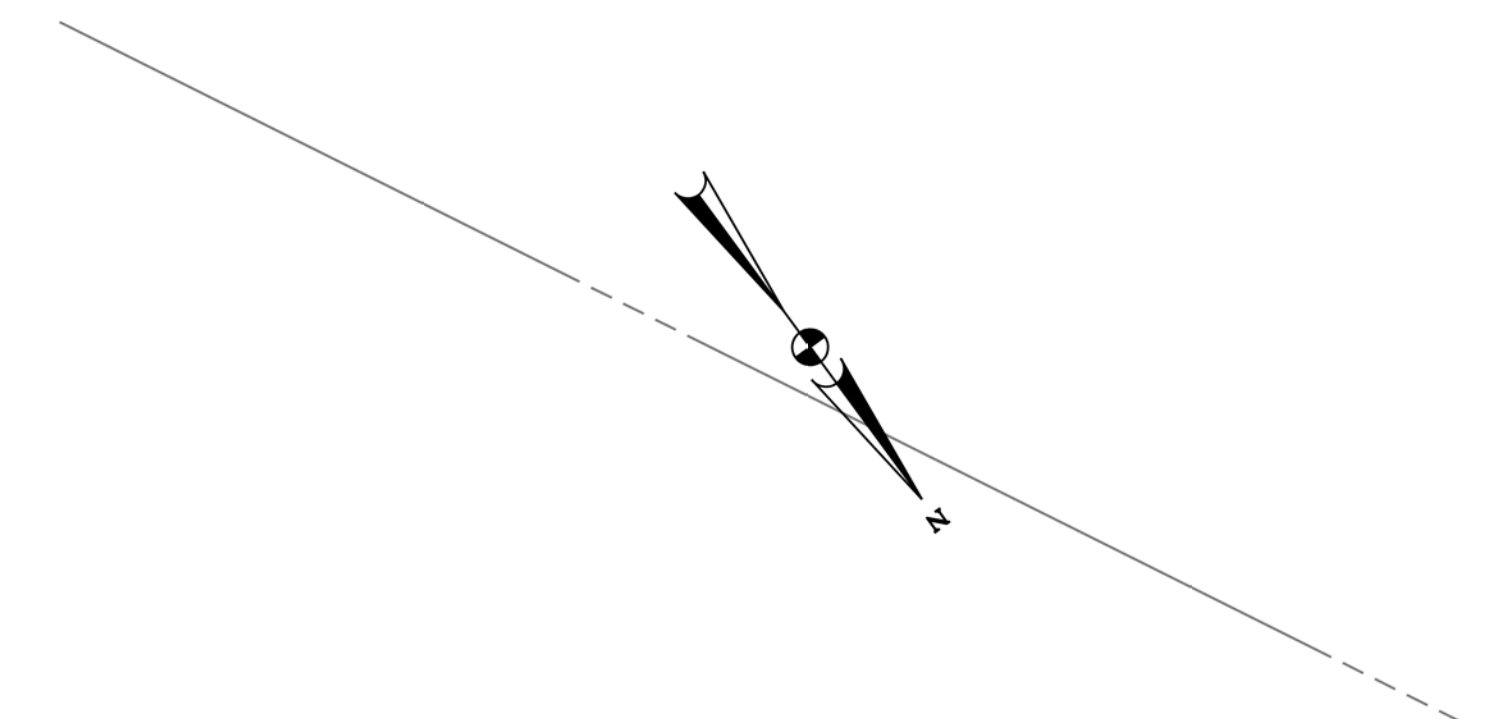
ESC-89A

I:\4\2022\pw\stantec-sc-pw-bentley.com\stntec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\35% Plans\ES Sheet Files\pES-0090_MD355BRT.dgn

3/

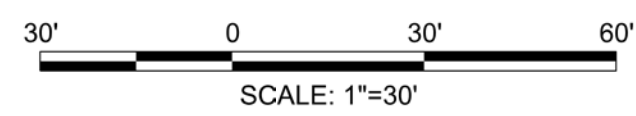
09-03802678
 BOARD OF COMM COLLEGE TR FOR
 L. F. PLAT 11792
 19710 OBSERVATION DR 20876

267155 N
 E 1243097



09-03662858
 HOLY CROSS HEALTH INC
 L. F. PLAT 10250
 19801 OBSERVATION DR 20876

LEGEND	
	MEDIAN INLET PROTECTION
	MEDIAN SUMP INLET PROTECTION
	COMBINATION INLET PROTECTION
	CUT
	FILL
	LIMIT OF DISTURBANCE
	EX. RIGHT OF WAY
	PR. RIGHT OF WAY
	PARK BOUNDARY
	HISTORICAL BOUNDARY
	BRT PATH
	SILT FENCE
	EARTH DIKE
	CURB INLET PROTECTION
	AT-GRADE INLET PROTECTION
	STANDARD INLET PROTECTION
	TEMP. STONE OUTLET STRUCTURE
	FULL DEPTH CONCRETE
	FULL DEPTH ASPHALT
	MILL / OVERLAY
	SIDEWALK
	CYCLE TRACK
	PAVEMENT REMOVAL
	RESIDENTIAL DISPLACEMENT
	BUSINESS DISPLACEMENT



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: _____

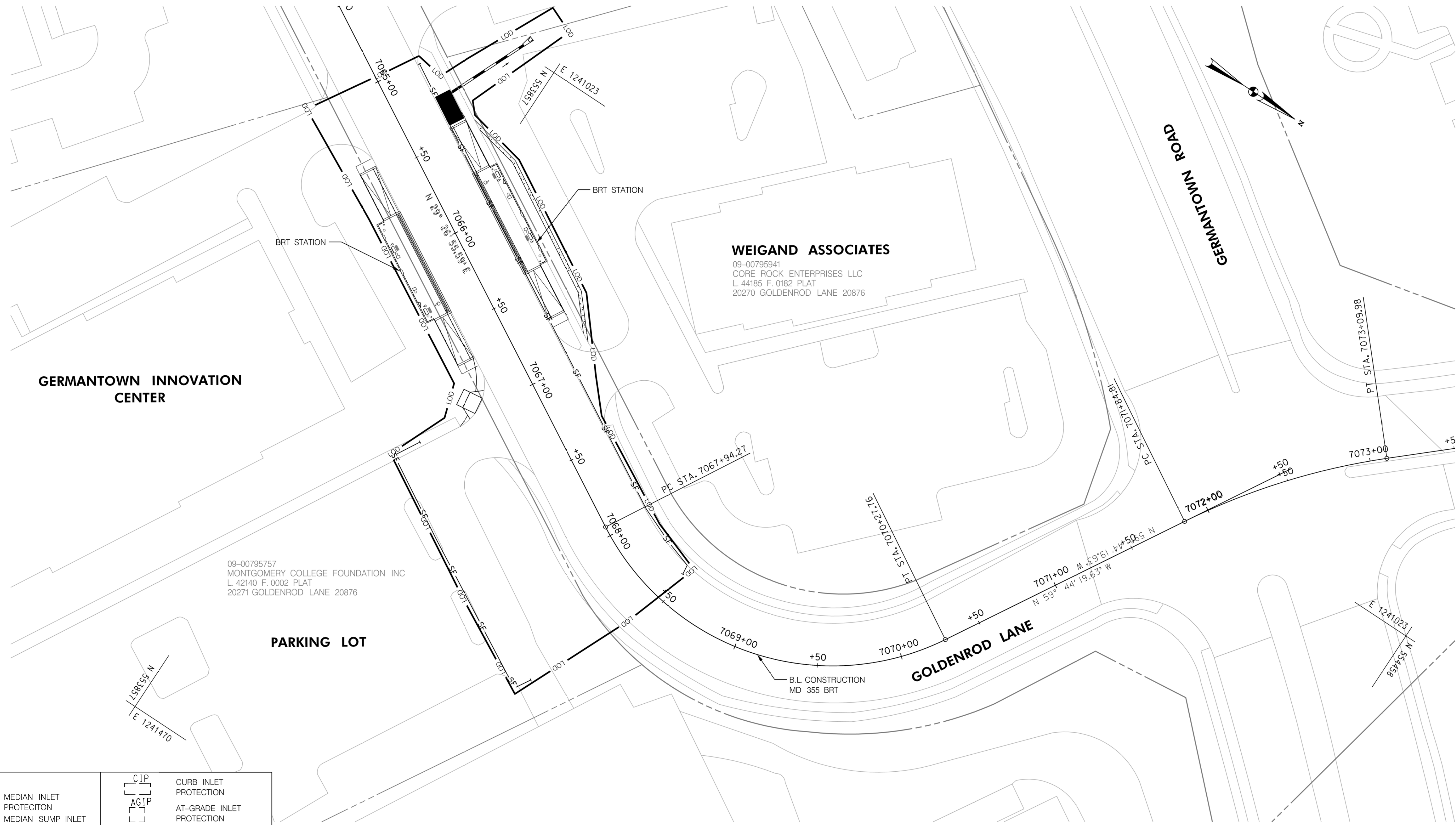
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	SEE TITLE SHEET FOR SIGNATURES _____ 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)	
EROSION AND SEDIMENT CONTROL PLAN SEGMENT 7	
SCALE : NOT TO SCALE	DATE : DECEMBER 2022
Project No. : 502005	SHEET 623 of 887

ESC-90

I:\4/2022\pw\stantec-sc-pw\stantec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\35% Plans\ES Sheet Files\ES-0091_MD355BRT.dgn



GERMANTOWN INNOVATION CENTER

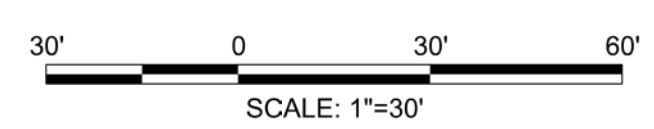
WEIGAND ASSOCIATES
 09-00795941
 CORE ROCK ENTERPRISES LLC
 L. 44185 F. 0182 PLAT
 20270 GOLDENROD LANE 20876

09-00795757
 MONTGOMERY COLLEGE FOUNDATION INC
 L. 42140 F. 0002 PLAT
 20271 GOLDENROD LANE 20876

PARKING LOT

B.L. CONSTRUCTION
 MD 355 BRT

LEGEND	
	MEDIAN INLET PROTECTION
	MEDIAN SUMP INLET PROTECTION
	COMBINATION INLET PROTECTION
	CUT
	FILL
	LIMIT OF DISTURBANCE
	EX. RIGHT OF WAY
	PR. RIGHT OF WAY
	PARK BOUNDARY
	HISTORICAL BOUNDARY
	BRT PATH
	SILT FENCE
	EARTH DIKE
	CURB INLET PROTECTION
	AT-GRADE INLET PROTECTION
	STANDARD INLET PROTECTION
	TEMP. STONE OUTLET STRUCTURE
	FULL DEPTH CONCRETE
	FULL DEPTH ASPHALT
	MILL / OVERLAY
	SIDEWALK
	CYCLE TRACK
	PAVEMENT REMOVAL
	RESIDENTIAL DISPLACEMENT
	BUSINESS DISPLACEMENT



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)

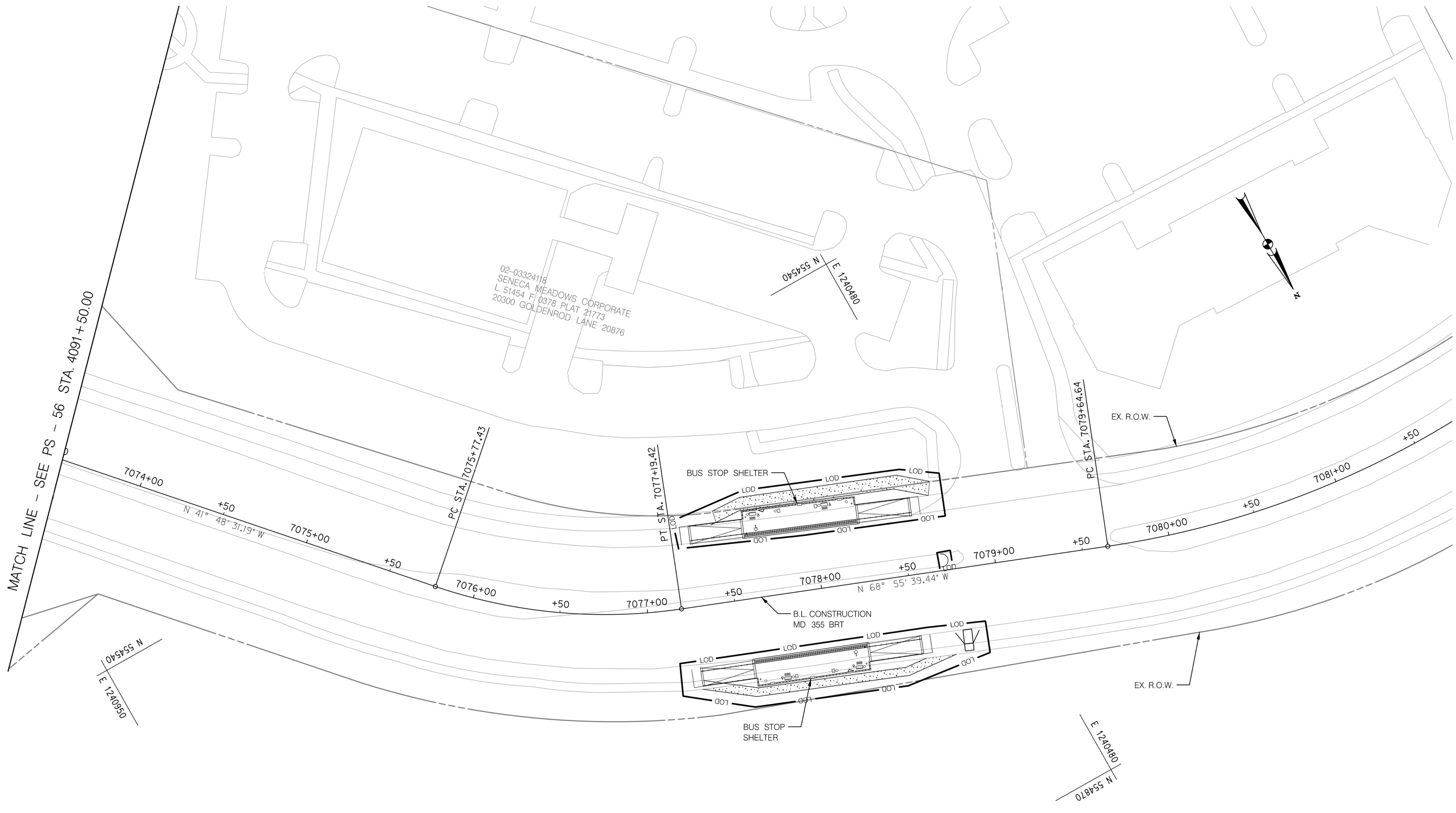
EROSION AND SEDIMENT CONTROL PLAN
 SEGMENT 7

SCALE : NOT TO SCALE DATE : DECEMBER 2022

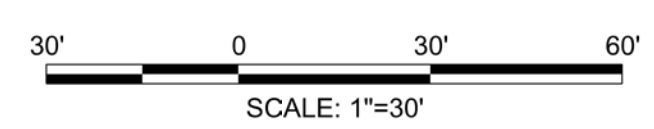
Project No. : 502005 SHEET 624 of 887

ESC-91

11/16/2022 P:\stantec-sc-pw\benfley.com\stntec-sc-pw-02\Documents\202621306\700 CADD\702 CIVIL\35% Plans\ES Sheet Files\ES-0092_MD355BRT.dgn



LEGEND	
[Symbol]	MIP MEDIAN INLET PROTECTION
[Symbol]	MSIP MEDIAN SUMP INLET PROTECTION
[Symbol]	COIP COMBINATION INLET PROTECTION
[Symbol]	C CUT
[Symbol]	F FILL
[Symbol]	LOD LIMIT OF DISTURBANCE
[Symbol]	EX. R.O.W. EX. RIGHT OF WAY
[Symbol]	PR. R.O.W. PR. RIGHT OF WAY
[Symbol]	P PARK BOUNDARY
[Symbol]	H HISTORICAL BOUNDARY
[Symbol]	BRT PATH BRT PATH
[Symbol]	SF SILT FENCE
[Symbol]	A-1 EARTH DIKE
[Symbol]	CIP CURB INLET PROTECTION
[Symbol]	AGIP AT-GRADE INLET PROTECTION
[Symbol]	SIP STANDARD INLET PROTECTION
[Symbol]	TSOS TEMP. STONE OUTLET STRUCTURE
[Symbol]	FULL DEPTH CONCRETE
[Symbol]	FULL DEPTH ASPHALT
[Symbol]	MILL /OVERLAY
[Symbol]	SIDEWALK
[Symbol]	CYCLE TRACK
[Symbol]	PAVEMENT REMOVAL
[Symbol]	R RESIDENTIAL DISPLACEMENT
[Symbol]	B BUSINESS DISPLACEMENT



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 : _____

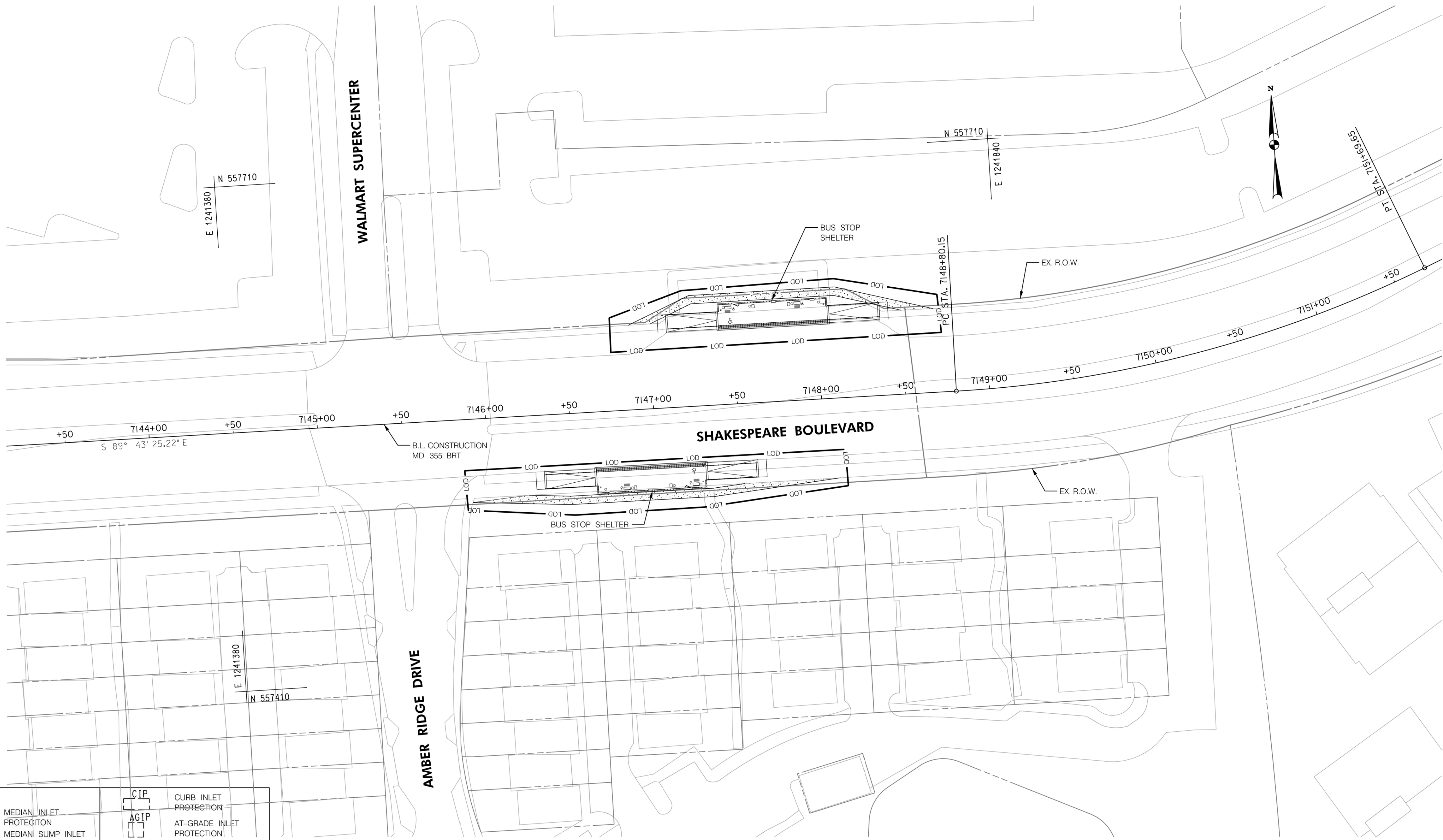
ESC-92

MD 355 BUS RAPID TRANSIT (BRT)
EROSION AND SEDIMENT CONTROL PLAN
SEGMENT 7

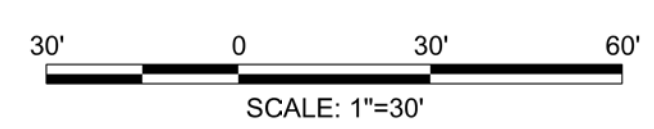
SCALE : NOT TO SCALE DATE : DECEMBER 2022

Project No. : 502005 SHEET 625 of 887

I:\16\2022\pw\stantec-sc-pw-bentley.com\stantec-sc-pw-02\Documents\202621306\700 CADD\702 CIVIL\35% Plans\ES Sheet Files\ES-0093_MD355BRT.dgn



LEGEND	
	MIP MEDIAN INLET PROTECTION
	MSIP MEDIAN SUMP INLET PROTECTION
	COIP COMBINATION INLET PROTECTION
	C CUT
	F FILL
	LOD LIMIT OF DISTURBANCE
	EX. R.O.W.
	PR. R.O.W.
	P PARK BOUNDARY
	H HISTORICAL BOUNDARY
	BRT PATH
	SF SILT FENCE
	A-1 EARTH DIKE
	CIP CURB INLET PROTECTION
	AGIP AT-GRADE INLET PROTECTION
	SIP STANDARD INLET PROTECTION
	TSOS TEMP. STONE OUTLET STRUCTURE
	FULL DEPTH CONCRETE
	FULL DEPTH ASPHALT
	MILL /OVERLAY
	SIDEWALK
	CYCLE TRACK
	PAVEMENT REMOVAL
	R RESIDENTIAL DISPLACEMENT
	B BUSINESS DISPLACEMENT



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

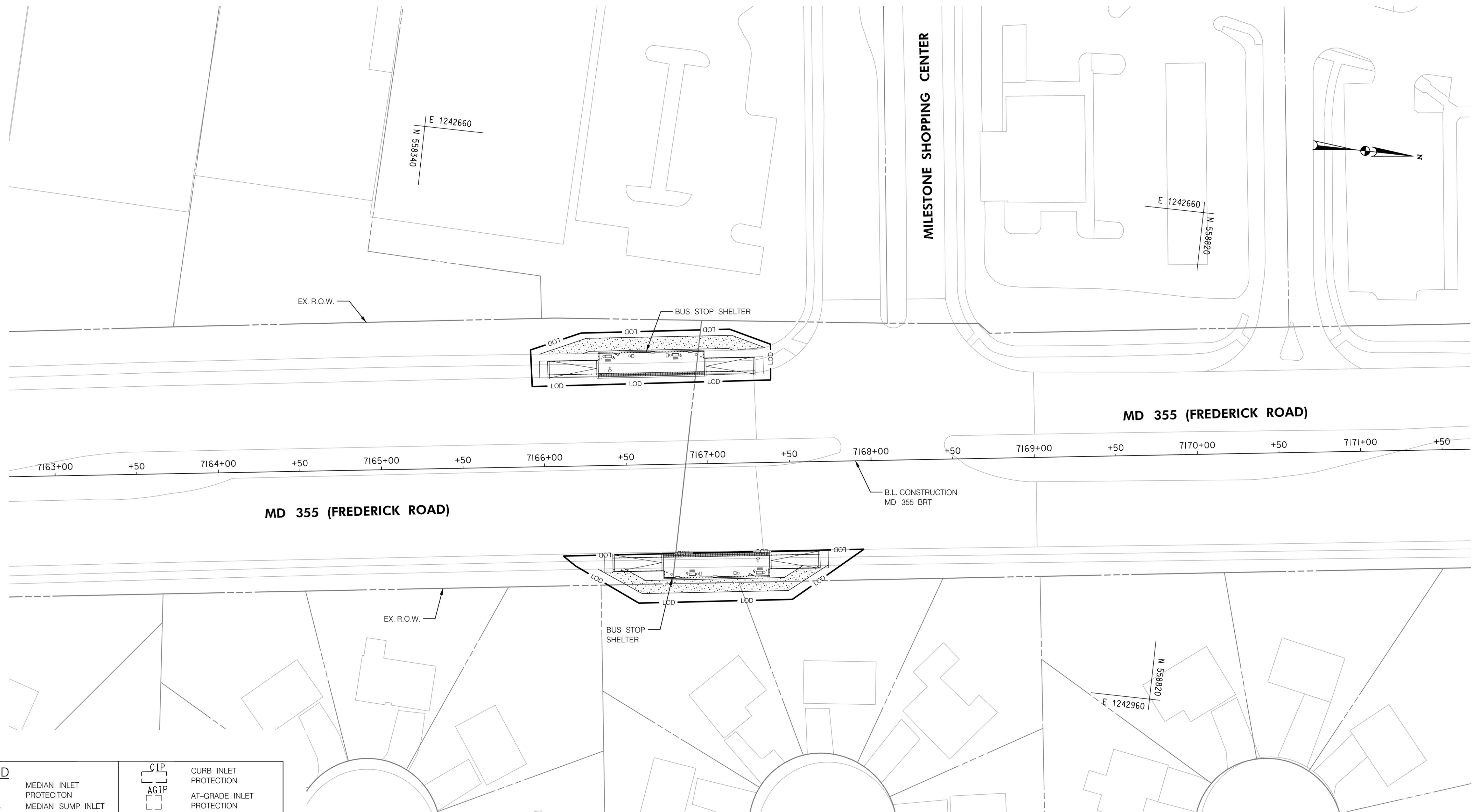
RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section _____ Date _____
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering _____ Date _____
 Designed by: _____ Drawn by: _____ Checked by: _____

MD 355 BUS RAPID TRANSIT (BRT)
 EROSION AND SEDIMENT CONTROL PLAN
 SEGMENT 7

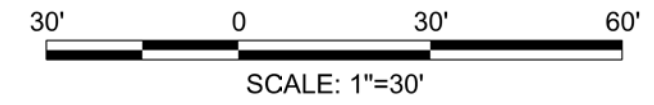
SCALE : NOT TO SCALE DATE : DECEMBER 2022
 Project No. : 502005 SHEET 626 of 887

ESC-93

I:\16\2022\pw\stantec-sc-pw\stantec-sc-pw-02\Documents\2022\1306\700 CADD\702 CIVIL\35% Plans\ES Sheet Files\pES-0094_MD355BRT.dgn



LEGEND	
	MIP MEDIAN INLET PROTECTION
	MSIP MEDIAN SUMP INLET PROTECTION
	COIP COMBINATION INLET PROTECTION
	C CUT
	F FILL
	LOD LIMIT OF DISTURBANCE
	EX. R.O.W. EXISTING RIGHT OF WAY
	PR. R.O.W. PROPOSED RIGHT OF WAY
	P PARK BOUNDARY
	H HISTORICAL BOUNDARY
	BRT PATH
	SF SILT FENCE
	A-1 EARTH DIKE
	CIP CURB INLET PROTECTION
	AGIP AT-GRADE INLET PROTECTION
	SIP STANDARD INLET PROTECTION
	TSOS TEMP. STONE OUTLET STRUCTURE
	FULL DEPTH CONCRETE
	FULL DEPTH ASPHALT
	MILL / OVERLAY
	SIDEWALK
	CYCLE TRACK
	PAVEMENT REMOVAL
	RESIDENTIAL DISPLACEMENT
	BUSINESS DISPLACEMENT



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

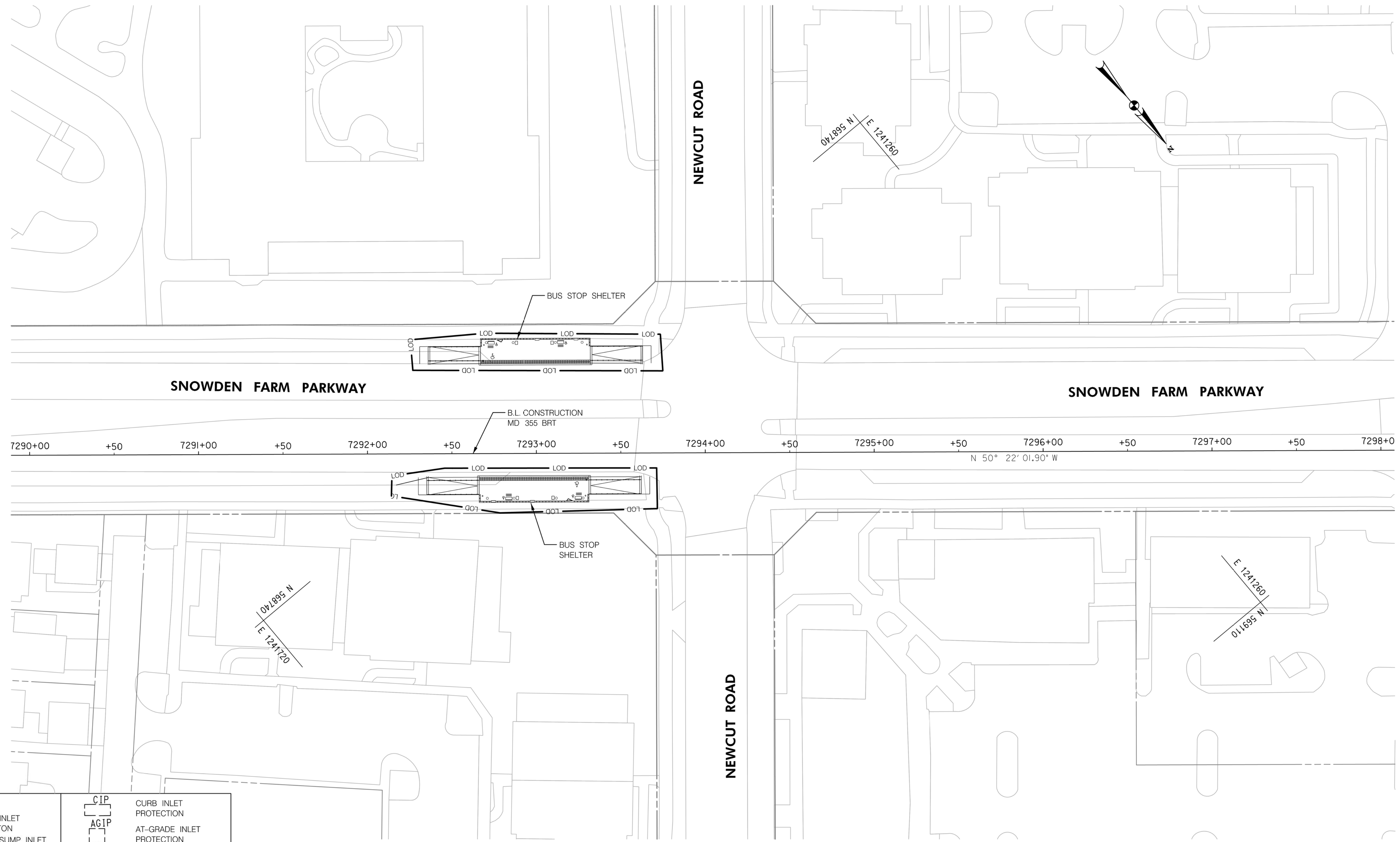
RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section _____ Date _____
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering _____ Date _____
 Designed by : _____ Drawn by : _____ Checked by : _____

ESC-94

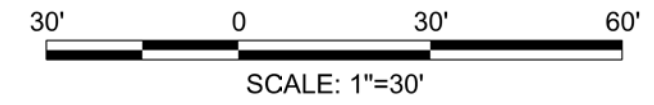
MD 355 BUS RAPID TRANSIT (BRT)
EROSION AND SEDIMENT CONTROL PLAN
SEGMENT 7

SCALE : NOT TO SCALE DATE : DECEMBER 2022
 Project No. : 502005 SHEET 627 of 887

11/16/2022 P:\stantec-sc-pw\benfley.com\stamtec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\35% Plans\ES Sheet Files\ES-0095_MD355BRT.dgn



LEGEND	
	MEDIAN INLET PROTECTION
	MEDIAN SUMP INLET PROTECTION
	COMBINATION INLET PROTECTION
	CUT
	FILL
	LIMIT OF DISTURBANCE
	EX. RIGHT OF WAY
	PR. RIGHT OF WAY
	PARK BOUNDARY
	HISTORICAL BOUNDARY
	BRT PATH
	SILT FENCE
	EARTH DIKE
	CURB INLET PROTECTION
	AT-GRADE INLET PROTECTION
	STANDARD INLET PROTECTION
	TEMP. STONE OUTLET STRUCTURE
	FULL DEPTH ASPHALT
	MILL /OVERLAY
	SIDEWALK
	CYCLE TRACK
	PAVEMENT REMOVAL
	RESIDENTIAL DISPLACEMENT
	BUSINESS DISPLACEMENT



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

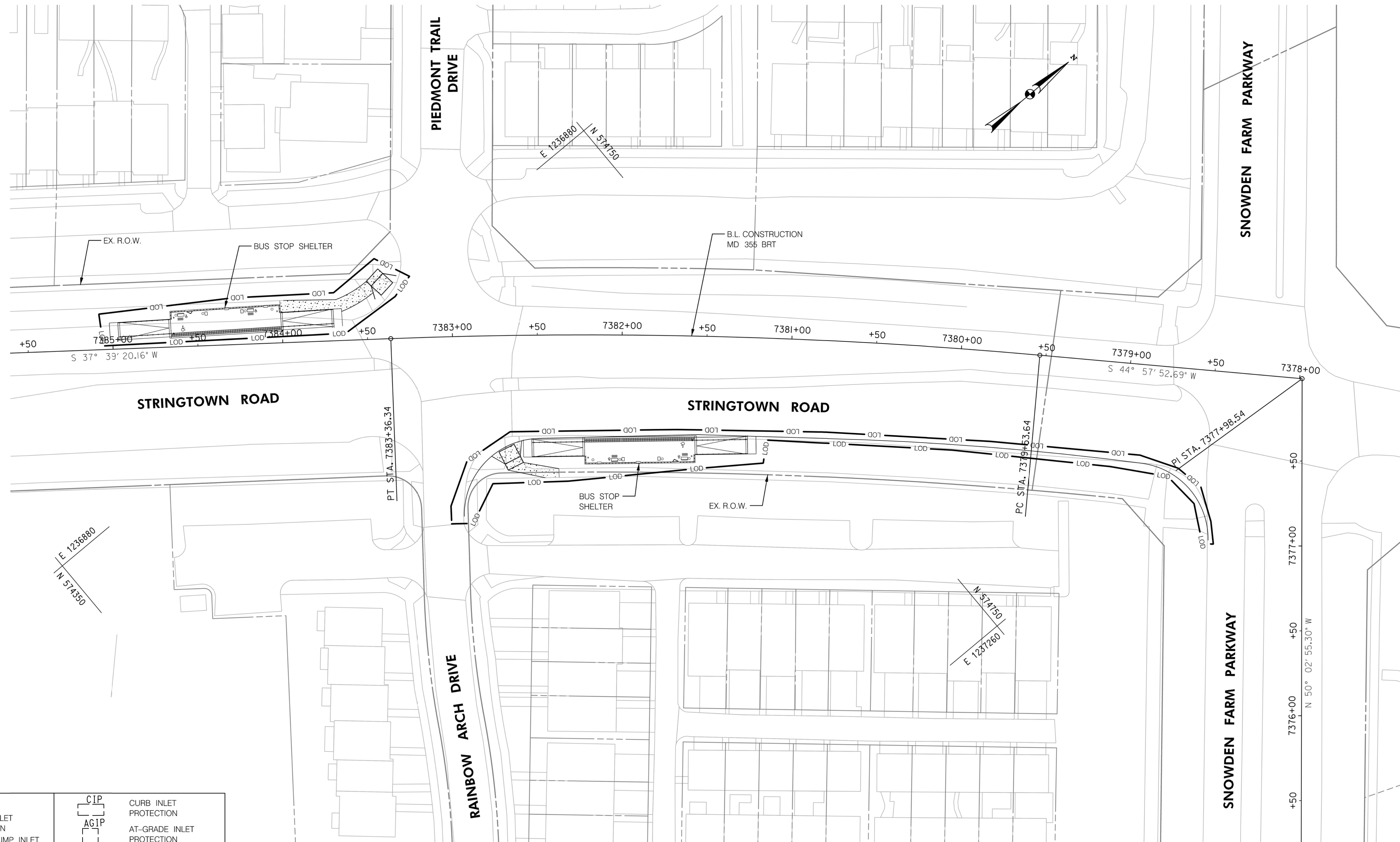
RECOMMENDED FOR APPROVAL
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Design Section _____ Date _____
 APPROVED
 SEE TITLE SHEET FOR SIGNATURES
 Chief, Division of Transportation Engineering _____ Date _____
 Designed by : _____ Drawn by : _____ Checked by : _____

ESC-95

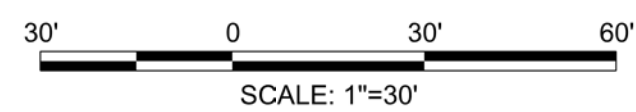
MD 355 BUS RAPID TRANSIT (BRT)
 EROSION AND SEDIMENT CONTROL PLAN
 SEGMENT 7

SCALE : NOT TO SCALE DATE : DECEMBER 2022
 Project No. : 502005 SHEET 628 of 887

I:\16\2022\pw\stantec-sc-pw\stantec-sc-pw-02\Documents\2022\21306\700 CADD\702 CIVIL\35% Plans\ES Sheet Files\ES-0096_MD355BRT.dgn
 11/16/2022



LEGEND	
	MEDIAN INLET PROTECTION
	MEDIAN SUMP INLET PROTECTION
	COMBINATION INLET PROTECTION
	CUT
	FILL
	LIMIT OF DISTURBANCE
	EX. RIGHT OF WAY
	PR. RIGHT OF WAY
	PARK BOUNDARY
	HISTORICAL BOUNDARY
	BRT PATH
	SILT FENCE
	EARTH DIKE
	CURB INLET PROTECTION
	AT-GRADE INLET PROTECTION
	STANDARD INLET PROTECTION
	TEMP. STONE OUTLET STRUCTURE
	FULL DEPTH CONCRETE
	FULL DEPTH ASPHALT
	MILL / OVERLAY
	SIDEWALK
	CYCLE TRACK
	PAVEMENT REMOVAL
	RESIDENTIAL DISPLACEMENT
	BUSINESS DISPLACEMENT



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)
 EROSION AND SEDIMENT CONTROL PLAN
 SEGMENT 7

SCALE : NOT TO SCALE DATE : DECEMBER 2022

Project No. : 502005 SHEET 629 of 887

ESC-96

- The permittee shall notify the department of permitting services (dps) forty-eight (48) hours before commencing any land disturbing activity and, unless waived by the department, shall be required to hold a pre-construction meeting between them or their representative, their engineer and an authorized representative of the department.
- The permittee must obtain inspection and approval by dps at the following points:
 - At the required pre-construction meeting.
 - Following installation of sediment control measures and prior to any other land disturbing activity.
 - During the installation of a sediment basin or stormwater management structure at the required inspection points (see inspection checklist on plan). Notification prior to commencing construction is mandatory.
 - Prior to removal or modification of any sediment control structure(s).
 - Prior to final acceptance.
- The permittee shall construct all erosion and sediment control measures per the approved plan and construction sequence, shall have them inspected and approved by the department prior to beginning any other land disturbances, shall ensure that all runoff from disturbed areas is directed to the sediment control devices, and shall not remove any erosion or sediment control measure without prior permission from the department.
- The permittee shall protect all points of construction ingress and egress to prevent the deposition of materials onto traversed public thoroughfare(s). All materials deposited onto public thoroughfare(s) shall be removed immediately.
- The permittee shall inspect periodically and maintain continuously in effective operating condition, all erosion and sediment control measures until such time as they are removed with prior permission from the department. The permittee is responsible for immediately repairing or replacing any sediment control measures which have been damaged or removed by the permittee or any other person.
- Following initial soil disturbance or re-disturbance, permanent or temporary stabilization must be completed within:
 - three (3) calendar days as to the surface of all perimeter dikes, swales, ditches, perimeter slopes and all slopes steeper than 3 horizontal to 1 vertical (3:1); and
 - seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading.

All areas disturbed outside of the perimeter sediment control system must be minimized and stabilized immediately. Maintenance must be performed as necessary to ensure continued stabilization.
- The permittee shall apply sod, seed, and anchored straw mulch, or other approved stabilization measures to all disturbed areas within seven (7) calendar days after stripping and grading activities have ceased on that area. Maintenance shall be performed as necessary to ensure continued stabilization. Active construction areas such as borrow or stockpile areas, roadway improvements, and areas within fifty (50) feet of a building under construction may be exempt from this requirement, provided that erosion and sediment control measures are installed and maintained to protect those areas.
- Prior to removal of sediment control measures, the permittee shall stabilize all contributory disturbed areas with required soil amendments and topsoil, using sod or an approved permanent seed mixture and an approved anchored mulch. Wood fiber mulch may only be used in seeding season when the slope does not exceed 10% and grading has been done to promote sheet flow drainage. Areas brought to finished grade during the seeding season shall be permanently stabilized within seven (7) calendar days of establishment. When property is brought to finished grade during the months of november through february, and permanent stabilization is found to be impractical, an approved temporary seed and straw anchored mulch shall be applied to disturbed areas. The final permanent stabilization of such property shall be completed prior to the following april 15.
- The site permit, work, materials, approved sc/sm plans, and test reports shall be available at the site for inspection by duly authorized officials of montgomery county.
- Surface drainage flows over unstabilized cut and fill slopes shall be controlled by either preventing drainage flows from traversing the slopes or by installing mechanical devices to lower the water down slope without causing erosion. Dikes shall be installed and maintained at the top of cut or fill slopes until the slope and drainage area to it are fully stabilized, at which time they must be removed and final grading done to promote sheet flow drainage. Mechanical devices must be provided at points of concentrated flow where erosion is likely to occur.
- Permanent swales or other points of concentrated water flow shall be stabilized within 3 calendar days of establishment with sod or seed with an approved erosion control matting or by other approved stabilization measures.
- Sediment control devices shall be removed, with permission of the department, within thirty (30) calendar days following establishment of permanent stabilization in all contributory drainage areas. Stormwater management structures used temporarily for sediment control shall be converted to the permanent configuration within this time period as well.

- No permanent cut or fill slope with a gradient steeper than 3:1 will be permitted in lawn maintenance areas or on residential lots. A slope gradient of up to 2:1 will be permitted in non-maintenance areas provided that those areas are indicated on the erosion and sediment control plan with a low-maintenance ground cover specified for permanent stabilization. Slope gradient steeper than 2:1 will not be permitted with vegetative stabilization.
- The permittee shall install a splashblock at the bottom of each downspout unless the downspout is connected by a drain line to an acceptable outlet.
- For finished grading, the permittee shall provide adequate gradients so as to prevent water from standing on the surface of lawns more than twenty-four (24) hours after the end of a rainfall, except in designated drainage courses and swale flow areas, which may drain as long as forty-eight (48) hours after the end of a rainfall.
- Sediment traps or basins are not permitted within 20 feet of a building which is existing or under construction. No building may be constructed within 20 feet of a sediment trap or basin.
- All inlets in non-sump areas shall have asphalt berms installed at the time of base paving establishment.
- The sediment control inspector has the option of requiring additional sediment control measures, as deemed necessary.
- All trap elevations are relative to the outlet elevation, which must be on existing undisturbed ground.
- Vegetative stabilization shall be performed in accordance with the standards and specifications for soil erosion and sediment control.
- Sediment trap(s)/basin(s) shall be cleaned out and restored to the original dimensions when sediment has accumulated to the point of one-half (1/2) the wet storage depth of the trap/basin (1/4 the wet storage depth for st-iii) or when required by the sediment control inspector.
- Sediment removed from traps/basins shall be placed and stabilized in approved areas, but not within a floodplain.
- All sediment basins and traps must be surrounded with a welded wire safety fence. The fence must be at least 42 inches high, have posts spaced no farther apart than 8 feet, have mesh openings no greater than two inches in width and four inches in height, with a minimum of 14 gauge wire. Safety fence must be maintained in good condition at all times.
- No excavation in the areas of existing utilities is permitted unless their location has been determined. Call "Miss utility" at 1-800-257-7777, 48 hours prior to the start of work.
- Off-site spoil or borrow areas must have prior approval by dps.
- Sediment trap/basin dewatering for cleanout or repair may only be done with the dps inspector's permission. The inspector must approve the dewatering method for each application. The following methods may be considered:
 - Pump discharge may be directed to another on-site sediment trap or basin, provided it is of sufficient volume and the pump intake is floated to prevent agitation or suction of deposited sediments; or
 - The pump intake may utilize a removable pumping station and must discharge into an undisturbed area through a non-erosive outlet; or
 - The pump intake may be floated and discharge into a dirt bag (12 oz. Non-woven fabric), or approved equivalent, located in an undisturbed buffer area.

Remember: dewatering operation and method must have prior approval by the dps inspector.
- The permittee must notify the department of all utility construction activities within the permitted limits of disturbance prior to the commencement of those activities.
- Topsoil must be applied to all pervious areas within the limits of disturbance prior to permanent stabilization in accordance with MDE "Standards and Specifications for Soil Preparation, Topsoiling, and Soil Amendments."

BEFORE BEGINNING CONSTRUCTION CONTACT
"MISS UTILITY"
AT
1-800-257-7777
AT LEAST 48 HOURS PRIOR TO EXCAVATION

STANDARD SYMBOLS

AT-GRADE INLET PROTECTION		ROCK OUTLET PROTECTION II	
BAFFLE BOARDS		ROCK OUTLET PROTECTION III	
CATCH BASIN INSERT		SILT FENCE	
CLEAR WATER DIVERSION PIPE	 <small>NOTE: DESIGNATION CWD-12 REFERS TO CLEAR WATER DIVERSION WITH 12 INCH PIPE.</small>	SILT FENCE ON PAVEMENT	
COMBINATION INLET PROTECTION		SOD	
CURB INLET PROTECTION		STABILIZED CONSTRUCTION ENTRANCE	
DIVERSION FENCE		STANDARD INLET PROTECTION	
EARTH DIKE	 <small>PLACE DESIGNATION (A-1, B-2, etc.) ON FLOW CHANNEL SIDE OF DIKE.</small>	STOCKPILE AREA	
EMERGENCY SPILLWAY		STONE CHECK DAM	
FILTER BAG		STONE/RIPRAP OUTLET SEDIMENT TRAP ST II	
FILTER BERM	 	SUBSURFACE DRAINS	
FILTER LOG	 <small>NOTE: DESIGNATION FL-18 REFERS TO FILTER LOG WITH 18 INCH DIAMETER.</small>	SUMP PIT	
GABION INFLOW PROTECTION		SUPER SILT FENCE	
GABION INLET PROTECTION		TEMPORARY ACCESS CULVERT	
LIMIT OF DISTURBANCE		TEMPORARY ASPHALT BERM	
MEDIAN INLET PROTECTION		TEMPORARY BARRIER DIVERSION	
MEDIAN SUMP INLET PROTECTION		TEMPORARY GABION OUTLET STRUCTURE	
MOUNTABLE BERM		TEMPORARY SOIL STABILIZATION MATTING-TYPE A	
PERIMETER DIKE/SWALE		TEMPORARY SOIL STABILIZATION MATTING-TYPE E	
PERMANENT SOIL STABILIZATION MATTING-TYPE B		TEMPORARY SOIL STABILIZATION MATTING-TYPE D	
PERMANENT SOIL STABILIZATION MATTING-TYPE C		TEMPORARY STONE OUTLET STRUCTURE	
PIPE OUTLET SEDIMENT TRAP ST I		TEMPORARY SWALE	 <small>PLACE DESIGNATION (A-1, B-2, etc.) ON FLOW CHANNEL SIDE OF SWALE.</small>
PIPE SLOPE DRAIN	 <small>NOTE: DESIGNATION PSD-12 REFERS TO PIPE SLOPE DRAIN WITH 12 IN PIPE.</small>	WASH RACK OPTION	
PLUNGE POOL		CHESAPEAKE BAY CRITICAL AREA	
PORTABLE SEDIMENT TANK		DRAINAGE BOUNDARY	
REMOVABLE PUMPING STATION		EXISTING CONTOURS	
RIPRAP INFLOW PROTECTION		PROPOSED CONTOURS	
RIPRAP OUTLET SEDIMENT TRAP ST III		TREE PROTECTION FENCE	
ROCK OUTLET PROTECTION I		WETLAND	
LIMIT OF CUT SLOPE		WETLAND BUFFER	
LIMIT OF FILL SLOPE		100-YEAR FLOODPLAIN	

ES-01

I:\16\2022\pww\stantec-sc-pw-02\Documents\202621306\700 CAD\702 Civil\352 Plans\ES Sheet Files\ES-N001_MD355BRT.dgn

11/16/2022



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

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

MD 355 BUS RAPID TRANSIT (BRT)

EROSION AND SEDIMENT CONTROL NOTES

SCALE : NTS DATE : DECEMBER 2022

Project No. : 502005 SHEET 630 of 887

11/16/2022 pw:\stntec-sc-pw-bentley.com\stntec-sc-pw-02\Documents\2026213106\700 CADD\702 Civil\35x Plans\ES Sheet Files\ES-N002-MD355BRT.dgn

SEQUENCE OF CONSTRUCTION

1. Prior to clearing of trees, installing sediment control measures, or grading a preconstruction meeting must be conducted on-site with the Montgomery County Department of Permitting Services (MC DPS) sediment control inspector (240) 777-0311 (48 hours notice), the Owners representative, and the site Engineer. In order for the meeting to occur, the applicant must provide one paper set of approved sediment control plans to the MC DPS sediment control inspector at the preconstruction meeting. If no plans are provided, the meeting shall not occur and will need to be rescheduled prior to commencing any work.
2. The limits of disturbance must be field marked prior to clearing of trees, installation of sediment control measure, construction or other land disturbing activities.
3. Weather should be monitored to ensure construction of proposed drainage facilities are done in a day with no expected rainfall. Proposed drainage facilities should be constructed within one working day.
4. Place Tree Protection Fence. Tree Protection Fencing is shown offset from the Limit of Disturbance (LOD) line for graphic reasons only. Tree protection fence placement is to be executed at the LOD line.
5. Construction can occur coincidentally or any order the contractor chooses as long as approvals are in place.

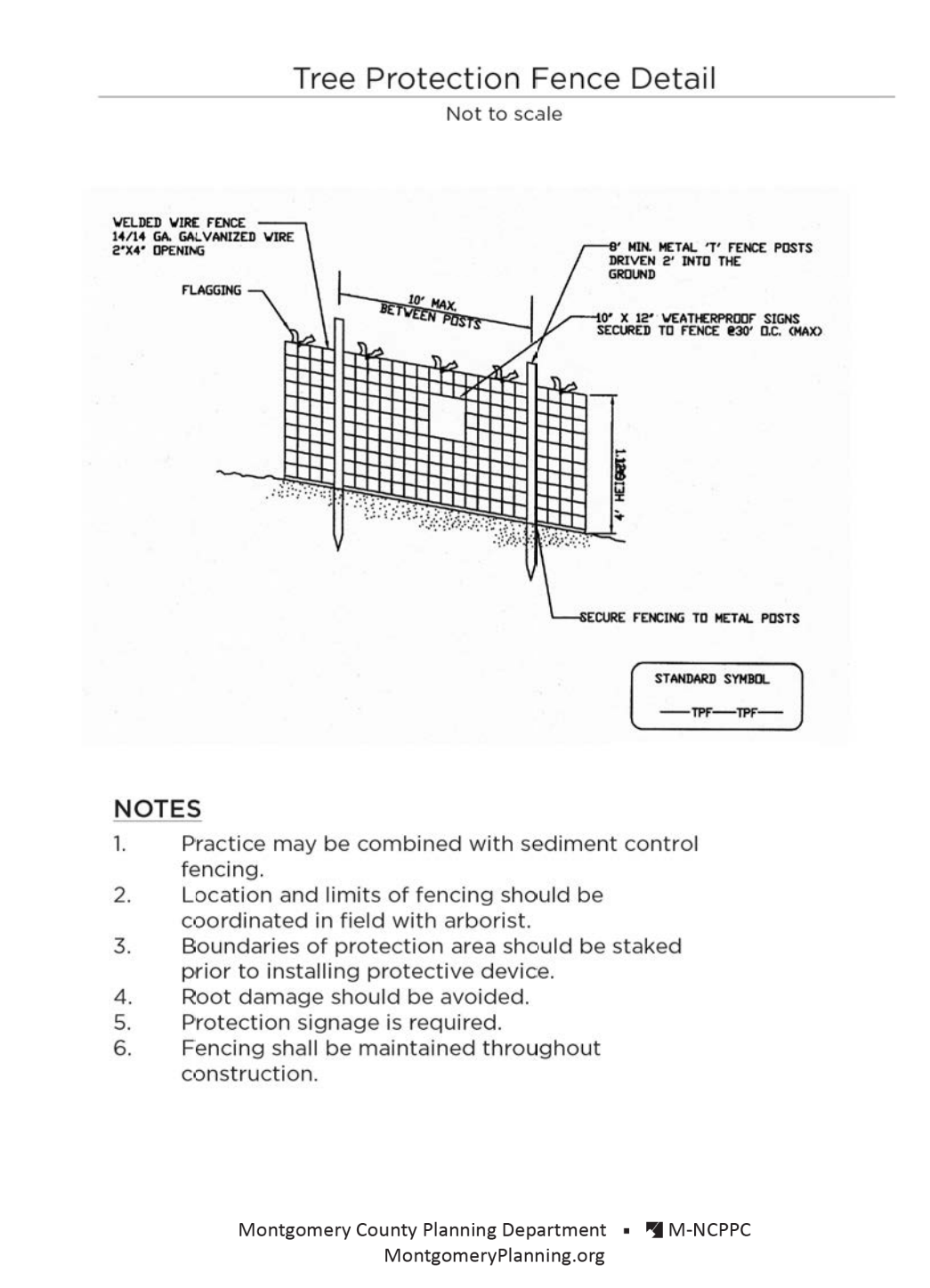
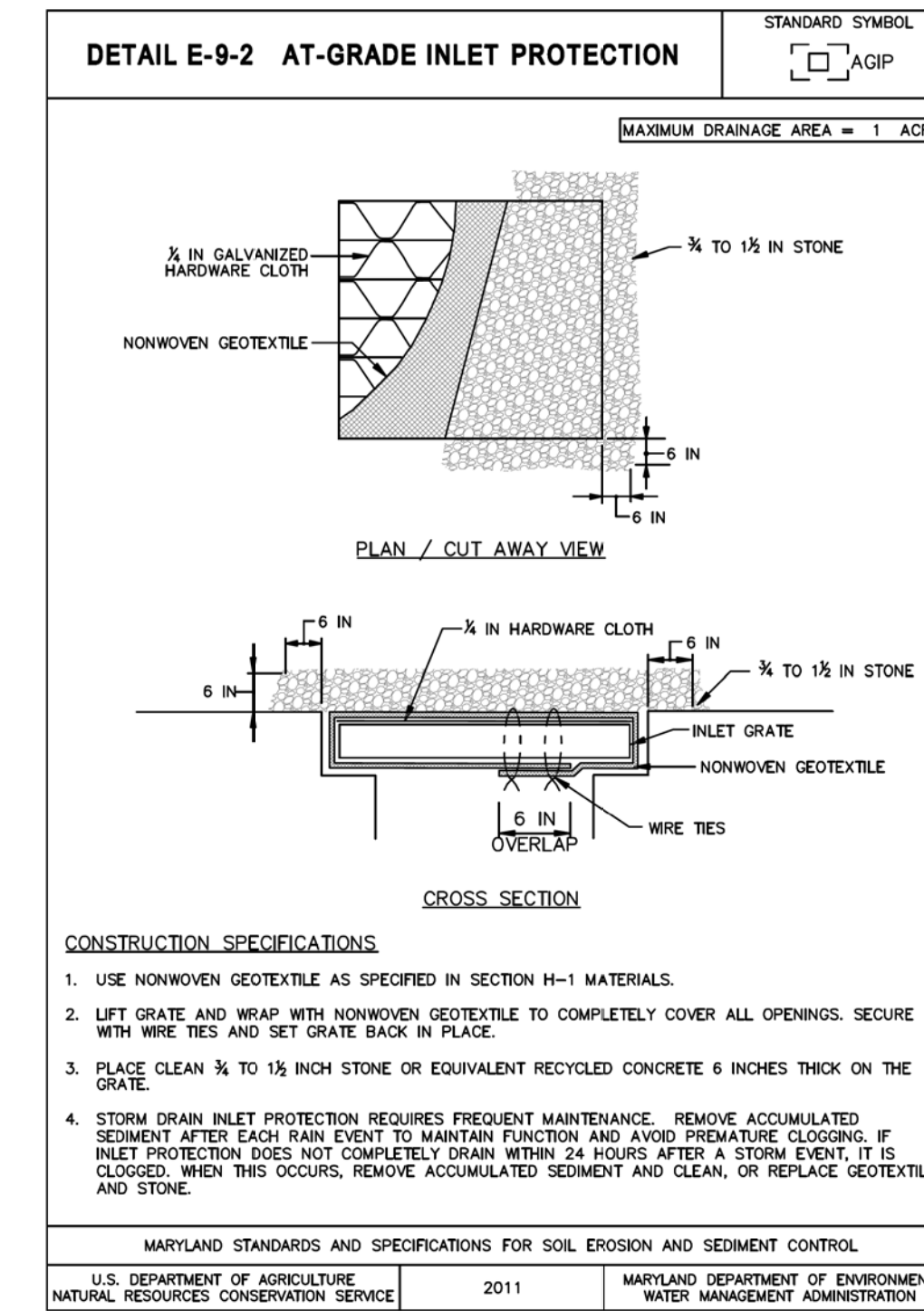
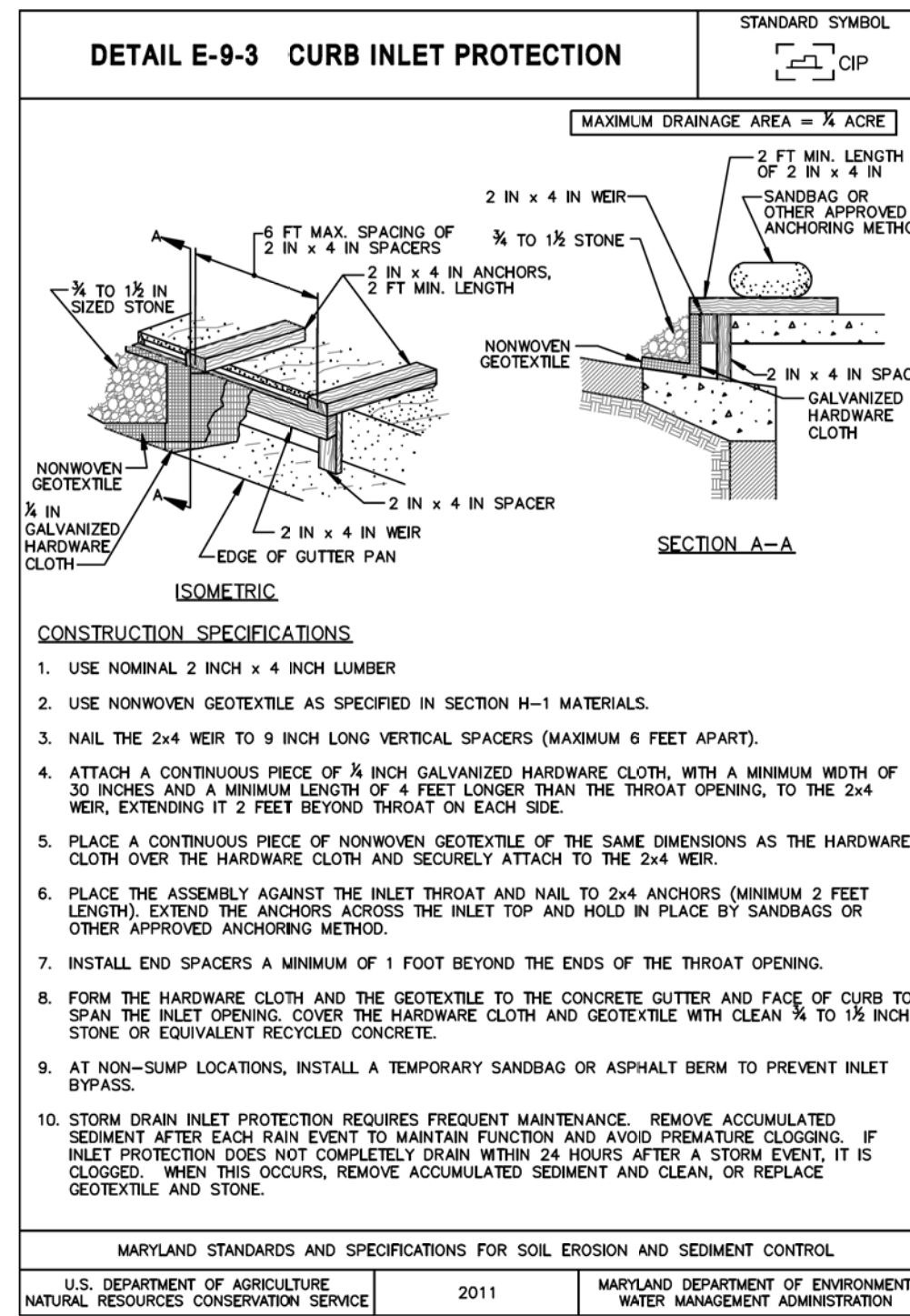
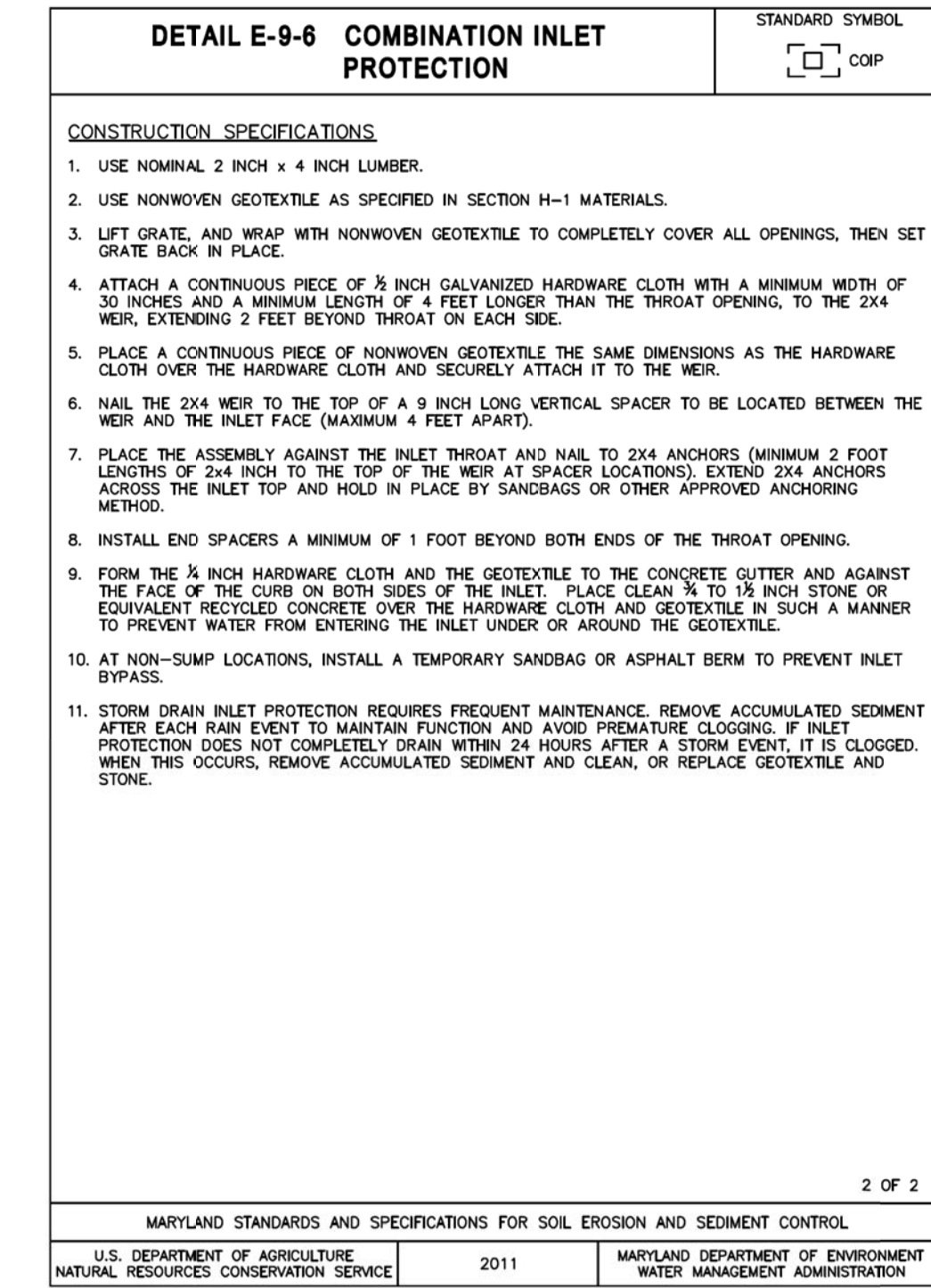
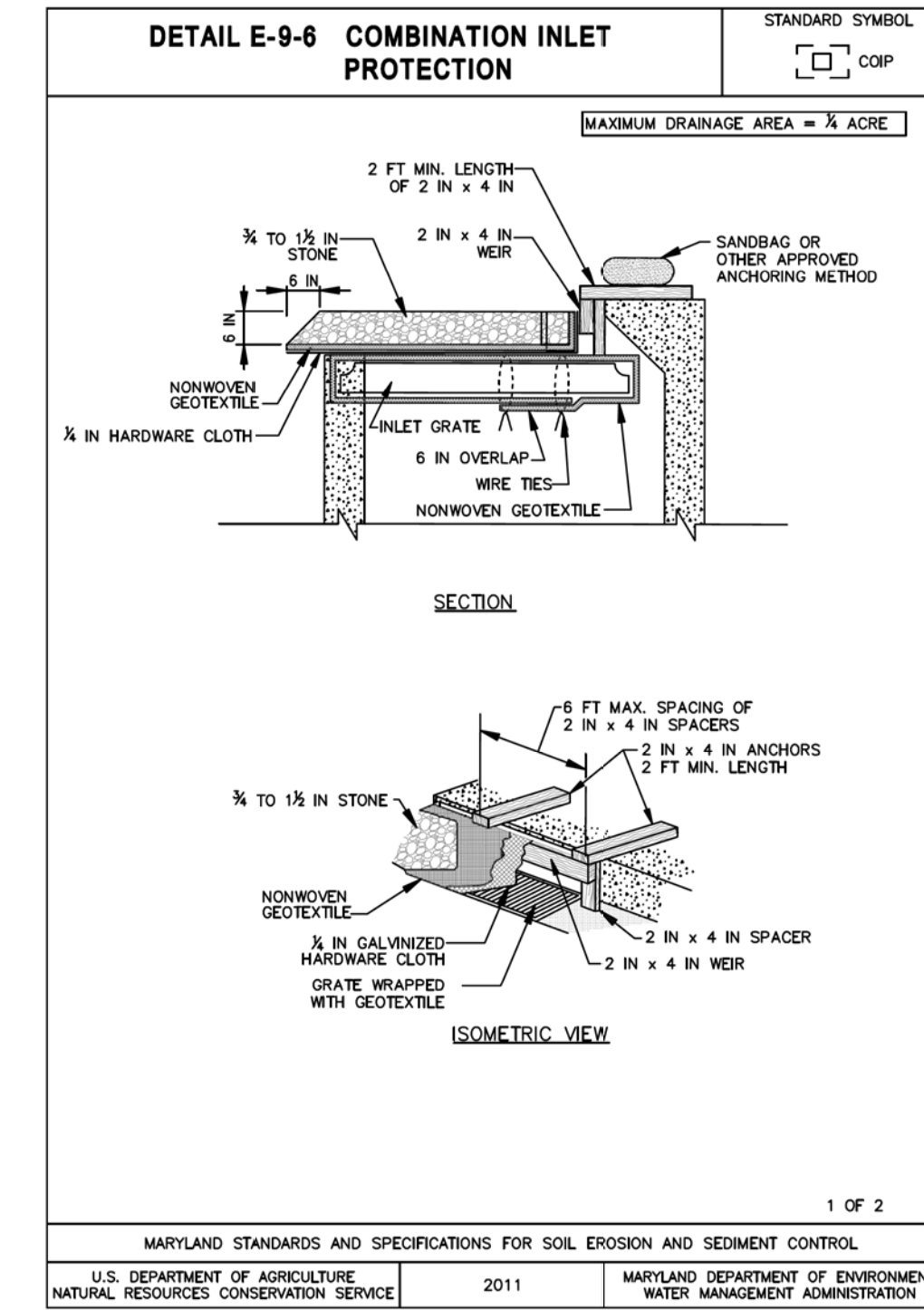
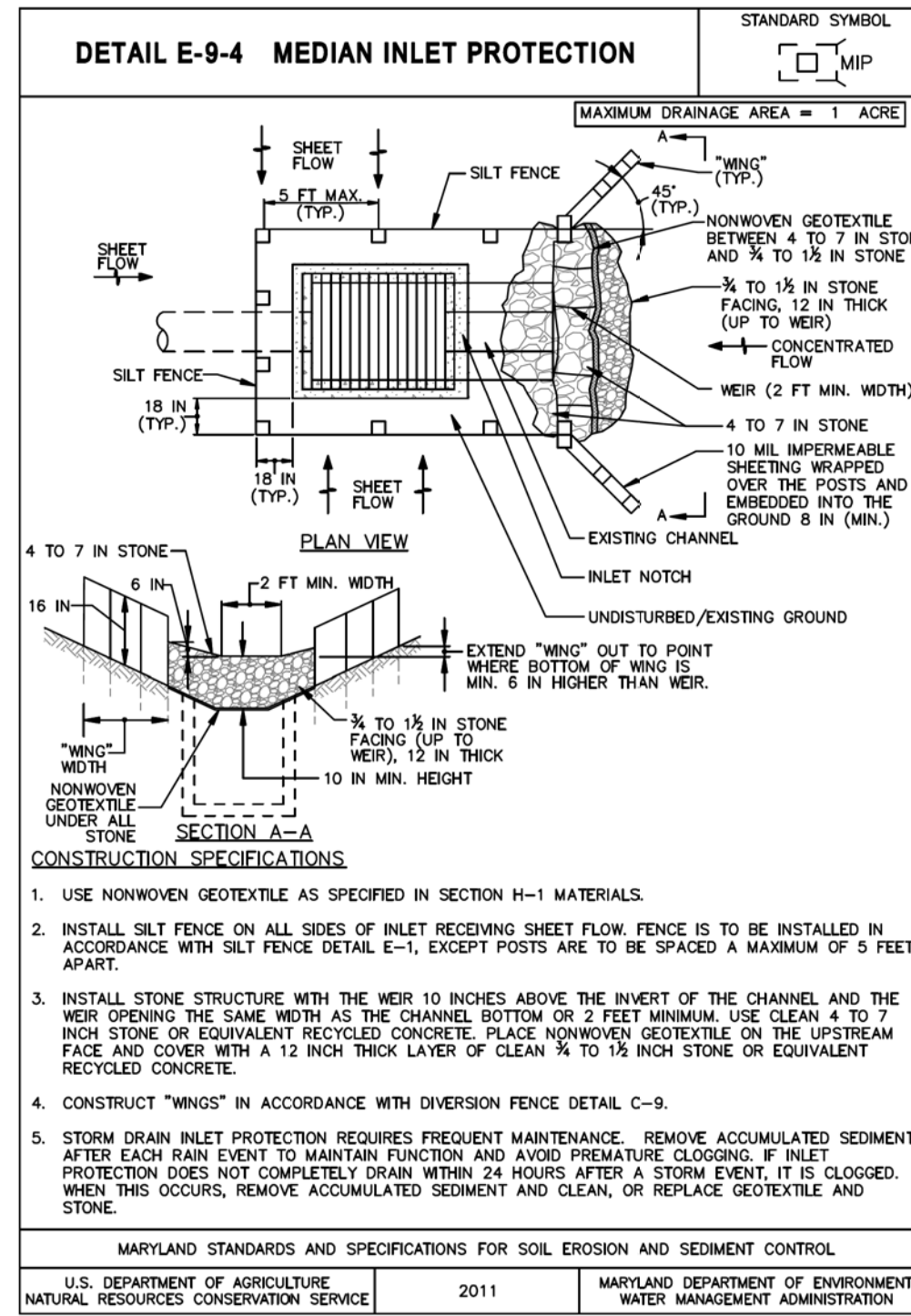
SITE SPECIFIC SEQUENCE OF CONSTRUCTION

1. Clear and Grade for Installation of sediment control devices, only disturbing the area needed for installation of the sediment control devices.
2. Install Inlet Protection and Tree Protection Fence.
3. Once installed, the permittee must obtain written approval from the MC DPS inspector before proceeding with any additional clearing, grubbing, or grading.
4. Construct roadway, storm drain improvements, curb, sidewalk, grading, and SWM facilities.
5. Permanently stabilize disturbed roadside area with topsoil, seed and mulch as indicated on the Typical Sections and Landscape plans.
6. Upon final stabilization and written approval from MC DPS inspector, the permittee shall remove the sediment control devices.

M-NCPPC CONSTRUCTION NOTES

Removal of Existing Pavement within a Tree's Critical Root Zone:

1. The contractor shall meet with the M-NCPPC Urban Forester and Construction Inspector prior to removal of the pavement to discuss methods to be used to remove pavement. Removal of pavement may be required to be done by hand depending on site conditions.
2. The existing top layer of pavement shall be peeled away without disturbing the ground or material beneath. If a base course of rock is beneath the pavement the rock shall be left in place.
3. During the removal of the pavement layer great care shall be taken to not disturb existing tree roots along or under existing pavement. Existing tree roots greater than 1.5" in diameter encountered during the removal process shall not be cut unless approved by the M-NCPPC Urban Forester.
4. Equipment should remain on existing pavement during the removal process. Equipment shall not traverse over areas where pavement was removed in order to protect exposed tree roots.
5. Ground protection such as a 12" mulch layer will be required if equipment is needed to be operated within the critical root zone.
6. Removal of the existing pavement shall be done under supervision of the M-NCPPC Urban Forester and the Construction Inspector.
7. Stabilize area per approved plan or as directed by Construction Inspector.



ES-02



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

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

MD 355 BUS RAPID TRANSIT (BRT)

EROSION AND SEDIMENT CONTROL NOTES & DETAILS

SCALE: _____ DATE: DECEMBER 2022

Project No. : 502005 SHEET 630A of 887

Montgomery County Planning Department • M-NCPPC
MontgomeryPlanning.org

11/16/2022 p:\stantec-sc-pw-02\Documents\2026213106\700 CADD\702 Civil\352 Plans\ES Sheet Files\ES-N003-MD355BRT.dgn

DETAIL E-1 SILT FENCE STANDARD SYMBOL

ELEVATION

CROSS SECTION

JOINING TWO ADJACENT SILT FENCE SECTIONS (TOP VIEW)

1 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
--	------	---

E.2

DETAIL E-1 SILT FENCE STANDARD SYMBOL

CONSTRUCTION SPECIFICATIONS

- USE WOOD POSTS 1 1/4 x 1 1/4 x 3/4 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
- USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
- USE WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
- PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
- WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
- EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

2 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
--	------	---

E.3

DETAIL E-9-1 STANDARD INLET PROTECTION STANDARD SYMBOL

CONSTRUCTION SPECIFICATIONS

TYPE A MAXIMUM DRAINAGE AREA = 1/4 ACRE
TYPE B MAXIMUM DRAINAGE AREA = 1 ACRE

ISOMETRIC VIEW

SECTION FOR TYPE A AND B

1 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
--	------	---

DETAIL E-9-1 STANDARD INLET PROTECTION STANDARD SYMBOL

CONSTRUCTION SPECIFICATIONS

- USE WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
- EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE NOTCH ELEVATION.
- FOR TYPE A, USE NOMINAL 2 INCH X 4 INCH CONSTRUCTION GRADE LUMBER POSTS, DRIVEN 1 FOOT INTO THE GROUND AT EACH CORNER OF THE INLET. PLACE NAIL STRIPS BETWEEN THE POSTS ON THE ENDS OF THE INLET. ASSEMBLE THE TOP PORTION OF THE 2x4 FRAME AS SHOWN. STRETCH 5 INCH GALVANIZED HARDWARE CLOTH TIGHTLY AROUND THE FRAME AND FASTEN SECURELY. FASTEN GEOTEXTILE SECURELY TO THE HARDWARE CLOTH WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND HARDWARE CLOTH A MINIMUM OF 18 INCHES BELOW THE WEIR CREST. THE ENDS OF THE GEOTEXTILE MUST MEET AT A POST, BE OVERLAPPED AND FOLDED, THEN FASTENED TO THE POST.
- FOR TYPE B, USE 3/8 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND 6 FOOT LENGTH, DRIVEN A MINIMUM OF 36 INCHES BELOW THE WEIR CREST AT EACH CORNER OF THE STRUCTURE. FASTEN 9 GAUGE OR HEAVIER CHAIN LINK FENCE 42 INCHES IN HEIGHT, SECURELY TO THE FENCE POSTS WITH WIRE TIES. FASTEN GEOTEXTILE SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 18 INCHES BELOW THE WEIR CREST.
- BACKFILL AROUND THE INLET IN LOOSE 4 INCH LIFTS AND COMPACT UNTIL SOIL IS LEVEL WITH THE NOTCH ELEVATION ON THE ENDS AND TOP ELEVATION ON THE SIDES.
- STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

2 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
--	------	---

DETAIL E-3 SUPER SILT FENCE STANDARD SYMBOL

ELEVATION

CROSS SECTION

CONSTRUCTION SPECIFICATIONS

- INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
- FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2 1/2 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR RING RINGS.
- FASTEN WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
- WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
- EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
- PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
--	------	---

DETAIL F-3 PORTABLE SEDIMENT TANK STANDARD SYMBOL

ELEVATION

PLAN VIEW

CONSTRUCTION SPECIFICATIONS

- PROVIDE 1 CUBIC FOOT OF STORAGE FOR EACH GALLON PER MINUTE OF PUMP CAPACITY. REQUIRED STORAGE VOLUME MAY BE ATTAINED BY PLACEMENT OF TANKS IN PARALLEL WITH INFLOW EVENLY DISTRIBUTED AMONG TANKS. OVERTOPPING OF TANKS IS NOT PERMITTED.
- USE 60 INCH CORRUGATED METAL OR PLASTIC PIPE WITH 1 INCH DIAMETER PERFORATIONS, 6 INCHES ON CENTER FOR THE INNER PIPE. LINE PIPE WITH NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, SANDWICHED BETWEEN, AND ATTACHED TO, 1/2 INCH HARDWARE CLOTH.
- OVERLAP GEOTEXTILE 8 INCHES MINIMUM AT VERTICAL SEAM AND AT THE BOTTOM PLATE.
- ANCHOR GEOTEXTILE AT BOTTOM OF TANK WITH 4 INCHES OF 2 TO 3 INCH CLEAN STONE OR EQUIVALENT RECYCLED CONCRETE.
- USE 72 INCH CORRUGATED METAL OR PLASTIC OUTER PIPE WITH PERMANENT OUTFLOW PIPE WITH INVERT LOWER THAN INFLOW PIPE.
- INFLOW PIPE MUST DISCHARGE INTO INNER PIPE AND BE REMOVABLE.
- PLACE TANK ON LEVEL SURFACE AND DISCHARGE TO A STABLE AREA AT A NONEROSIVE RATE.
- A PORTABLE SEDIMENT TANK REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT FROM INNER PIPE WHEN IT REACHES TWO FEET IN DEPTH. IF SYSTEM CLOGS, PULL OUT INNER PIPE. REMOVE ACCUMULATED SEDIMENT, AND REPLACE GEOTEXTILE. KEEP POINT OF DISCHARGE FREE OF EROSION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
--	------	---

F.7

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE STANDARD SYMBOL

PROFILE

PLAN VIEW

CONSTRUCTION SPECIFICATIONS

- PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE. MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
- PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
- MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE. MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
--	------	---

ES-03

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section	_____	Date	_____
APPROVED			
Chief, Division of Transportation Engineering	_____	Date	_____
Designed by :	_____	Drawn by :	_____
Checked by :	_____		_____

MD 355 BUS RAPID TRANSIT (BRT)

EROSION AND SEDIMENT CONTROL NOTES & DETAILS

SCALE : _____ DATE : DECEMBER 2022

Project No. : 502005 SHEET 630B of 887



Stantec

6110 FROST PLACE,
LAUREL, MARYLAND 20707
(301) 962-2900
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

11/16/2022 P:\stntec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\35x Plans\ES Sheet Files\ES-N004-MD355BRT.dgn

DETAIL C-1 EARTH DIKE

STANDARD SYMBOL:

CROSS SECTION
2:1 SLOPE OR FLATTER
EXISTING GROUND
GRADE TO PROVIDE REQUIRED FLOW WIDTH AND FLOW DEPTH

PLAN VIEW
CONTINUOUS GRADE 0.5% MIN. TO 10% MAX. SLOPE

DIKE TYPE	DIMENSIONS	
	A	B
a - DIKE HEIGHT	18 IN. MIN.	30 IN. MIN.
b - DIKE WIDTH	24 IN. MIN.	36 IN. MIN.
c - FLOW WIDTH	4 FT. MIN.	6 FT. MIN.
d - FLOW DEPTH	12 IN. MIN.	24 IN. MIN.

FLOW CHANNEL STABILIZATION

A-1 SEED WITH STRAW MULCH AND TACK. (NOT ALLOWED FOR CLEAR WATER DIVERSION.)
 A-2/B-2 SEED WITH SOIL STABILIZATION MATTING OR LINE WITH SOD.
 A-3/B-3 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE PRESSED INTO SOIL A MINIMUM OF 7 INCHES AND FLUSH WITH GROUND.

CONSTRUCTION SPECIFICATIONS

- REMOVE AND DISPOSE OF ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SO AS NOT TO INTERFERE WITH PROPER FUNCTION OF EARTHDIKE.
- EXCAVATE OR SHAPE EARTH DIKE TO LINE, GRADE, AND CROSS SECTION AS SPECIFIED. BANK PROJECTIONS OR OTHER IRREGULARITIES ARE NOT ALLOWED.
- COMPACT FILL.
- CONSTRUCT FLOW CHANNEL ON AN UNINTERRUPTED, CONTINUOUS GRADE, ADJUSTING THE LOCATION DUE TO FIELD CONDITIONS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.
- PROVIDE OUTLET PROTECTION AS REQUIRED ON APPROVED PLAN.
- STABILIZE EARTH DIKE WITHIN THREE DAYS OF INSTALLATION. STABILIZE FLOW CHANNEL FOR CLEAR WATER DIVERSION WITHIN 24 HOURS OF INSTALLATION.
- MAINTAIN LINE, GRADE, AND CROSS SECTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS, AND MAINTAIN POSITIVE DRAINAGE. KEEP EARTH DIKE AND POINT OF DISCHARGE FREE OF EROSION, AND CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.
- UPON REMOVAL OF EARTH DIKE, GRADE AREA FLUSH WITH EXISTING GROUND. WITHIN 24 HOURS OF REMOVAL STABILIZE DISTURBED AREA WITH TOPSOIL, SEED, AND MULCH, OR AS SPECIFIED ON APPROVED PLAN.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
 C.5

DETAIL E-7 TEMPORARY STONE OUTLET STRUCTURE

STANDARD SYMBOL:

ISOMETRIC VIEW
MAXIMUM DRAINAGE AREA = 1/2 ACRE
EARTH DIKE
2 TO 3 IN STONE
NONWOVEN GEOTEXTILE INTERFACE BETWEEN STONE AND ALL EARTH SURFACES
2 FT. MIN. TOP WIDTH

CROSS SECTION
6 IN MIN. EARTH DIKE
WEIR CREST LEVEL
EARTH DIKE
18 IN MIN.
EMBED Baffle BOARD 4 IN MIN. INTO GROUND
PERFORATIONS FOR DEWATERING, 3 ROWS 1 IN DIAMETER HOLES ON 6 IN CENTERS
12 IN MIN.
2 IN x 10 IN x 12 FT Baffle BOARD
WEIR CREST
2 FT MIN.
2 TO 3 IN STONE
STORAGE VOLUME - EXCAVATE AS NECESSARY
GROUND LINE
NONWOVEN GEOTEXTILE
WOVEN MONOFILAMENT GEOTEXTILE
6 IN MIN.
4 IN EMBEDMENT
POST 2 IN x 2 IN x 18 IN MIN.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
 E.18

DETAIL E-7 TEMPORARY STONE OUTLET STRUCTURE

STANDARD SYMBOL:

CONSTRUCTION SPECIFICATIONS

- PROVIDE STORAGE VOLUME AS SPECIFIED ON APPROVED PLANS.
- USE NONWOVEN GEOTEXTILE ON INTERFACE BETWEEN GROUND AND STONE.
- PERFORATE Baffle BOARD WITH 3 ROWS OF 1 INCH DIAMETER HOLES 6 INCHES ON CENTER. EMBED A MINIMUM OF 4 INCHES INTO GROUND, AND EXTEND Baffle BOARD MINIMUM OF 12 INCHES INTO EARTH DIKE.
- USE CLEAN 2 TO 3 INCH STONE OR EQUIVALENT RECYCLED CONCRETE. PLACE WOVEN MONOFILAMENT GEOTEXTILE ON UPSTREAM FACE AND COVER WITH A MINIMUM OF 6 INCHES OF ADDITIONAL STONE.
- USE NONWOVEN AND WOVEN MONOFILAMENT GEOTEXTILES AS SPECIFIED IN SECTION H-1 MATERIALS.
- SET WEIR CREST OF STONE 6 INCHES LOWER THAN THE TOP OF EARTH DIKE. USE MINIMUM LENGTH OF 6 FEET FOR WEIR CREST.
- REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO WITHIN 6 INCHES OF WEIR CREST. REPLACE GEOTEXTILE AND STONE FACING WHEN STRUCTURE CEASES TO DRAIN. MAINTAIN LINE, GRADE, AND CROSS SECTION.
- UPON REMOVAL OF STONE OUTLET STRUCTURE, GRADE AREA FLUSH WITH EXISTING GROUND, WITHIN 24 HOURS STABILIZE DISTURBED AREA WITH TOPSOIL, SEED, AND MULCH, OR AS SPECIFIED ON APPROVED PLAN.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
 E.19

DETAIL E-2 SILT FENCE ON PAVEMENT

STANDARD SYMBOL:

ISOMETRIC VIEW
10 FT MAX. SLOPE
2 IN MAX. BETWEEN NAILS
2 IN x 4 IN ACROSS TOP OF STONE
2 FT MIN. TO 15 INCH STONE
15 IN MIN.
MASTIC SEAL

SECTION A-A
POST
STAPLE
LATHE
SUPPORT FRAME
WOVEN SLIT FILM GEOTEXTILE SILT FENCE
MASTIC SEAL
2 IN x 4 IN
WOVEN SLIT FILM GEOTEXTILE
MASTIC SEAL

CONSTRUCTION SPECIFICATIONS

- USE NOMINAL 2 INCH X 4 INCH LUMBER.
- USE WOVEN SLIT FILM GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- SPACE UPRIGHT SUPPORTS NO MORE THAN 10 FEET APART.
- PROVIDE A TWO FOOT OPENING BETWEEN EVERY SET OF SUPPORTS AND PLACE STONE IN THE OPENING OVER GEOTEXTILE.
- KEEP SILT FENCE TAUT AND SECURELY STAPLE TO THE UPSLOPE SIDE OF UPRIGHT SUPPORTS. EXTEND GEOTEXTILE UNDER 2x4.
- WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, FOLD, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL. ATTACH LATHE.
- PROVIDE A MASTIC SEAL BETWEEN PAVEMENT, GEOTEXTILE, AND 2x4 TO PREVENT SEDIMENT-LOADED WATER FROM ESCAPING BENEATH SILT FENCE INSTALLATION.
- SECURE BOARDS TO PAVEMENT WITH 400 5 INCH MINIMUM LENGTH NAILS.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. MAINTAIN WATER TIGHT SEAL ALONG BOTTOM. REPLACE STONE IF DISPLACED.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
 E.5

DETAIL F-4 FILTER BAG

STANDARD SYMBOL:

PLAN VIEW
PUMP DISCHARGE HOSE
STRAP
FLOW
12 IN. MIN.
MULCH LEAF/WOOD COMPOST, WOODCHIPS, SAND, OR STRAW BALES
SLOPE 5% MAX.
18 IN. MIN.
FILTER BAG

ELEVATION
12 IN. MIN.
MULCH LEAF/WOOD COMPOST, WOODCHIPS, SAND, OR STRAW BALES
SLOPE 5% MAX.
18 IN. MIN.
FILTER BAG

CONSTRUCTION SPECIFICATIONS

- TIGHTLY SEAL SLEEVE AROUND THE PUMP DISCHARGE HOSE WITH A STRAP OR SIMILAR DEVICE.
- PLACE FILTER BAG ON SUITABLE BASE (E.G., MULCH, LEAF/WOOD COMPOST, WOODCHIPS, SAND, OR STRAW BALES) LOCATED ON A LEVEL OR 5% MAXIMUM SLOPING SURFACE. DISCHARGE TO A STABILIZED AREA. EXTEND BASE A MINIMUM OF 12 INCHES FROM EDGES OF BAG.
- CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE FILTER BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. AS THE BAG FILLS WITH SEDIMENT, REDUCE PUMPING RATE.
- REMOVE AND PROPERLY DISPOSE OF FILTER BAG UPON COMPLETION OF PUMPING OPERATIONS OR AFTER BAG HAS REACHED CAPACITY, WHICHEVER OCCURS FIRST. SPREAD THE DEWATERED SEDIMENT FROM THE BAG IN AN APPROVED UPLAND AREA AND STABILIZE WITH SEED AND MULCH BY THE END OF THE WORK DAY. RESTORE THE SURFACE AREA BENEATH THE BAG TO ORIGINAL CONDITION UPON REMOVAL OF THE DEVICE.
- USE NONWOVEN GEOTEXTILE WITH DOUBLE STITCHED SEAMS USING HIGH STRENGTH THREAD. SIZE SLEEVE TO ACCOMMODATE A MAXIMUM 4 INCH DIAMETER PUMP DISCHARGE HOSE. THE BAG MUST BE MANUFACTURED FROM A NONWOVEN GEOTEXTILE THAT MEETS OR EXCEEDS MINIMUM AVERAGE ROLL VALUES (MANS) FOR THE FOLLOWING:

GRAB TENSILE	250 LB	ASTM D-4632
PUNCTURE	150 LB	ASTM D-4833
FLOW RATE	70 GAL/MIN/FT ²	ASTM D-4491
PERMITTIVITY (SEC ⁻¹)	1.2 SEC ⁻¹	ASTM D-4491
UV RESISTANCE	70% STRENGTH @ 500 HOURS	ASTM D-4355
APPARENT OPENING SIZE (AOS)	0.15-0.18 MM	ASTM D-4751
SEAM STRENGTH	90%	ASTM D-4632

- REPLACE FILTER BAG IF BAG CLOGS OR HAS RIPS, TEARS, OR PUNCTURES. DURING OPERATION KEEP CONNECTION BETWEEN PUMP HOSE AND FILTER BAG WATER TIGHT. REPLACE BEDDING IF IT BECOMES DISPLACED.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
 F.9

DETAIL E-6 FILTER LOG

STANDARD SYMBOL:

SECTION
3 IN.
45°
12 IN. MIN.
AREA TO BE PROTECTED
2 IN x 2 IN STAKES
TRENCH INTO GROUND 4 IN MIN.

SECTION
3 IN.
45°
12 IN. MIN.
AREA TO BE PROTECTED
2 IN x 2 IN STAKES
TRENCH INTO GROUND 4 IN MIN.

ISOMETRIC VIEW
UNTRENCHED INSTALLATION OR ENTRENCHED INSTALLATION
THIS APPLICATION MAY NOT BE USED WITH LOGS SMALLER THAN 12 IN.
MULCH OR COMPOST FOR UNTRENCHED LOGS
SHEET FLOW
WORK AREA
AREA TO BE PROTECTED
FILTER LOG

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
 E.18

DETAIL E-6 FILTER LOG

STANDARD SYMBOL:

CONSTRUCTION SPECIFICATIONS

- PRIOR TO INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLOUDS, AND DEBRIS GREATER THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION OF FILTER LOG.
- FILL LOG NETTING UNIFORMLY WITH COMPOST (IN ACCORDANCE WITH SECTION H-1 MATERIALS), OR OTHER APPROVED BIODEGRADABLE MATERIAL TO DESIRED LENGTH SUCH THAT LOGS DO NOT DEFORM.
- INSTALL FILTER LOGS PERPENDICULAR TO THE FLOW DIRECTION AND PARALLEL TO THE SLOPE WITH THE BEGINNING AND END OF THE INSTALLATION POINTING SLIGHTLY UP THE SLOPE CREATING A "J" SHAPE AT EACH END TO PREVENT BYPASS.
- FOR UNTRENCHED INSTALLATION BLOW OR HAND PLACE MULCH OR COMPOST ON UPHILL SIDE OF THE SLOPE ALONG LOG.
- STAKE FILTER LOG EVERY 4 FEET OR CLOSER ALONG ENTIRE LENGTH OF LOG OR TRENCH LOG INTO GROUND A MINIMUM OF 4 INCHES AND STAKE LOG EVERY 8 FEET OR CLOSER.
- USE STAKES WITH A MINIMUM NOMINAL CROSS SECTION OF 2x2 INCH AND OF SUFFICIENT LENGTH TO ATTAIN A MINIMUM OF 12 INCHES INTO THE GROUND AND 3 INCHES PROTRUDING ABOVE LOG.
- WHEN MORE THAN ONE LOG IS NEEDED, OVERLAP ENDS 12 INCHES MINIMUM AND STAKE.
- REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO A DEPTH OF 1/2 THE EXPOSED HEIGHT OF LOG AND REPLACE MULCH. REPLACE FILTER LOG IF TORN. REINSTALL FILTER LOG IF UNDERMINING OR DISLOGGING OCCURS. REPLACE CLOGGED FILTER LOGS. FOR PERMANENT APPLICATIONS, ESTABLISH AND CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
 E.18

ES-04

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

MD 355 BUS RAPID TRANSIT (BRT)

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

EROSION AND SEDIMENT CONTROL NOTES & DETAILS

Chief, Division of Transportation Engineering _____ Date _____
 Designed by: _____ Drawn by: _____ Checked by: _____

SCALE: _____ DATE: DECEMBER 2022

Project No. : 502005 SHEET 631 of 887



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