

Table 1: MD-355 BRT (35% Design) ESDv Facilities

Table with 7 columns: Station, Side of Road, POI/LOI, Watershed, BMP Types, BMP ID, IART Managed (ac), Credited ESDv (cf). Lists various ESDv facilities along the BRT alignment.

Table 1: MD-355 BRT (35% Design) ESDv Facilities

Table with 7 columns: Station, Side of Road, POI/LOI, Watershed, BMP Types, BMP ID, IART Managed (ac), Credited ESDv (cf). Lists various ESDv facilities along the BRT alignment.

Table 2: MD-355 BRT (35% Design) ESDv and Q10 Bioretention Facilities\*

Table with 10 columns: Station, Side of Road, POI/LOI, Watershed, BMP Types, BMP ID, IART Managed (ac), Surface Storage (cf), Sub-Surface Storage (cf), Total ESDv (cf). Lists bioretention facilities.

Table 3: MD-355 BRT (35% Design) Q10 BMP Summary

Table with 6 columns: Station, Side of Road (NB, SB), POI/LOI, Watershed, BMP Type, BMP ID, Storage Volume Provided (cf). Summary of Q10 BMPs.

Table 4: MD-355 BRT (35% Design) IART, ESDv, and Q10 Requirements Per Watershed

Table with 7 columns: Total Per Watershed, IART Required (ac.), IART Provided (ac.), ESDv Required (cf), ESDv Provided (cf), 10-YR Detention Storage Required (cf), 10-YR Detention Storage Provided. Summary of requirements per watershed.

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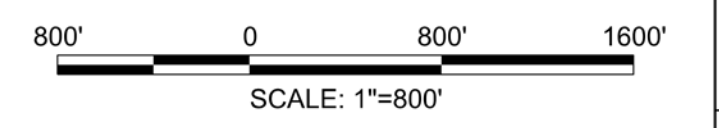


Table with 4 columns: NO., REVISION, DATE, BY. Revision table for the drawing.

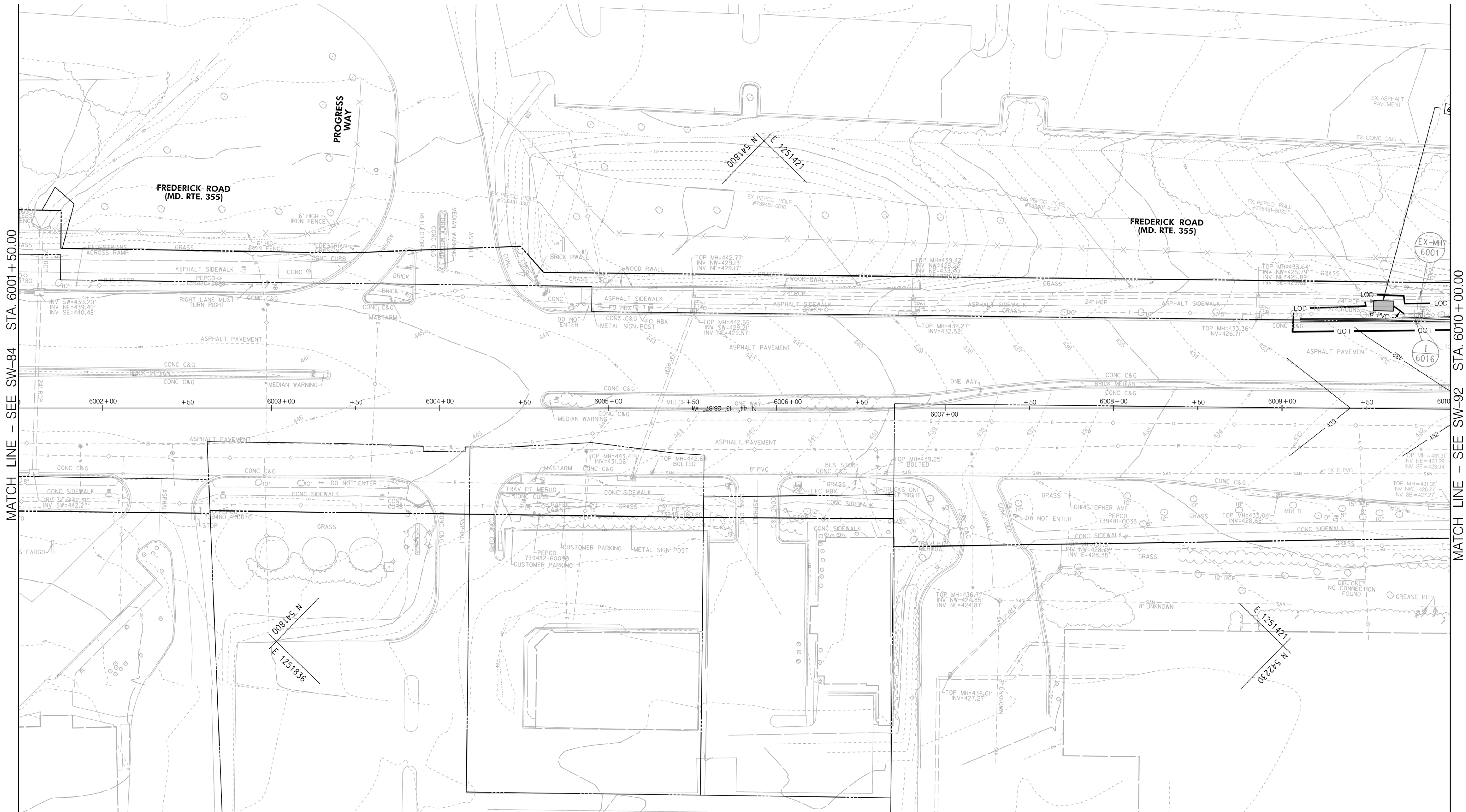
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MD 355 BUS RAPID TRANSIT (BRT) SEGMENT 6 STORMWATER MANAGEMENT KEY MAP MDE SC-92. SCALE: 1" = 800' DATE: DECEMBER 2022. Project No.: 502005 SHEET 379 of 887

SW-90



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MATCH LINE - SEE SW-84 STA. 6001 + 50.00

MATCH LINE - SEE SW-92 STA. 6010 + 00.00

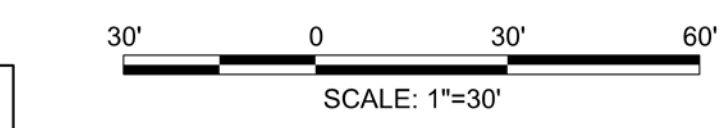
SW-91

**LEGEND**

IMPERVIOUS SURF. AREA FULL	
IMPERVIOUS SURF. AREA MILL	
PROPOSED BIO-SWALES	
PROPOSED PLANTER BOXES	
PROPOSED FILTERS	
PROPOSED PERM. PAVEMENT	
PROPOSED BIO-RET. POND	
PROPOSED POTENTIAL FACILITY	
PROPOSED UG FACILITY	
PROPOSED STORM DRAIN	
PROPOSED INLET	
PROPOSED STORM FILTER	
PROPOSED BUS PLATFORM	



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MD 355 BUS RAPID TRANSIT (BRT)  
 SEGMENT 6  
 STORMWATER MANAGEMENT PLAN  
 MDE SC-93

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 380 of 887



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MATCH LINE - SEE SW-91 STA. 6010 + 00.00  
 MATCH LINE - SEE SW-89 STA. 63 + 50.00  
 MATCH LINE - SEE SW-93 STA. 6018 + 50.00

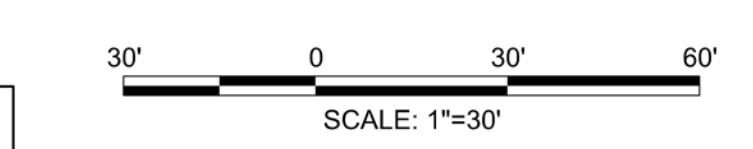
SW-92

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IMPERVIOUS SURF. AREA MILL	
PROPOSED BIO-SWALES	
PROPOSED PLANTER BOXES	
PROPOSED FILTERS	
PROPOSED PERM. PAVEMENT	
PROPOSED BIO-RET. POND	
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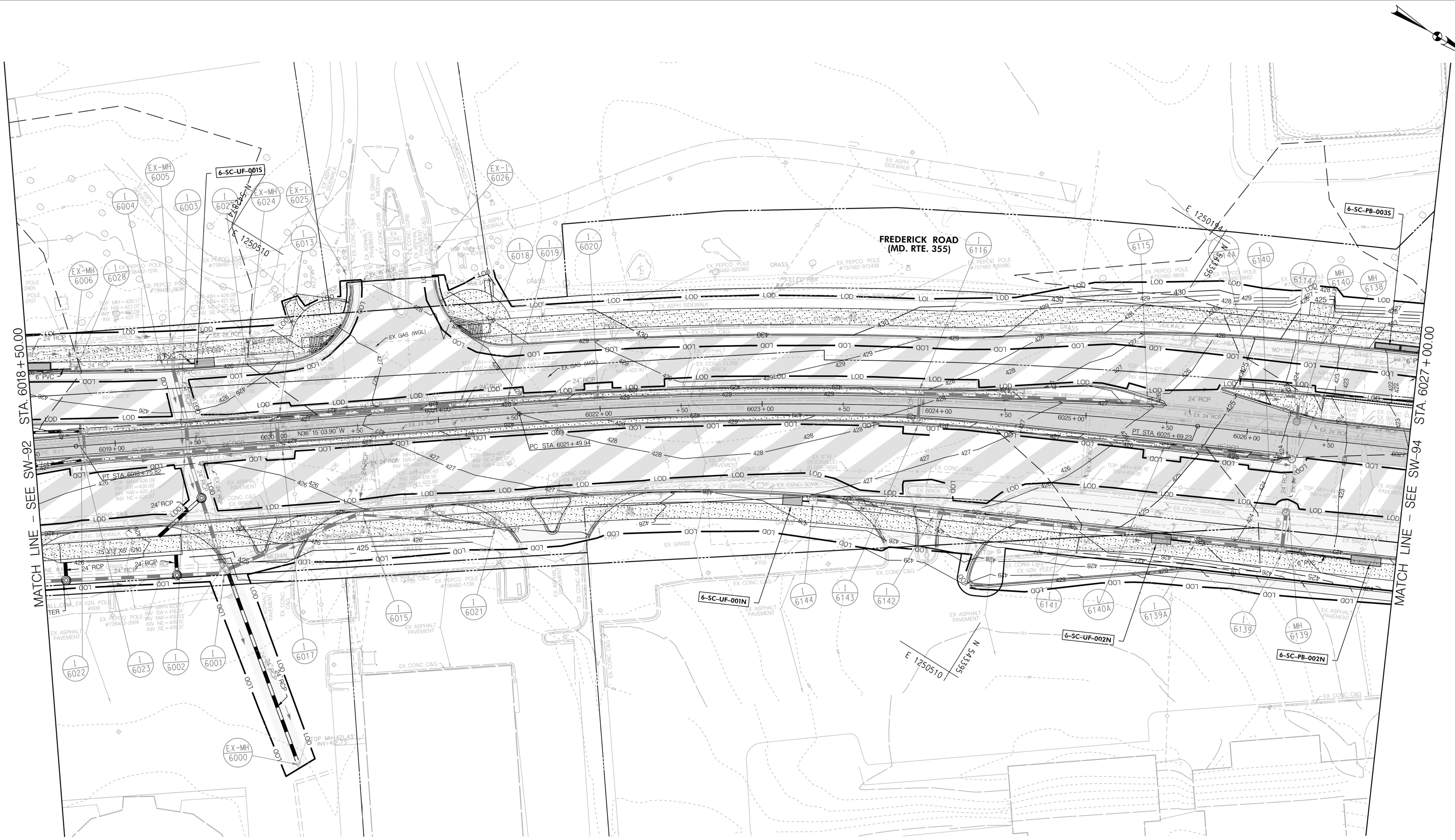
**MD 355 BUS RAPID TRANSIT (BRT)**  
**SEGMENT 6**  
**STORMWATER MANAGEMENT PLAN**  
 MDE SC-94

SCALE : 1" = 30'      DATE : DECEMBER 2022

Project No. : 502005      SHEET 381 of 887



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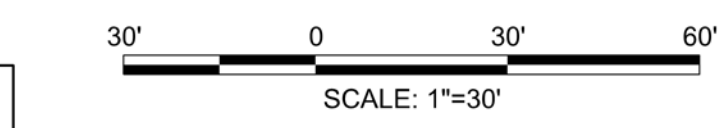
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PROPOSED PERM. PAVEMENT	
PROPOSED BIO-RET. POND	
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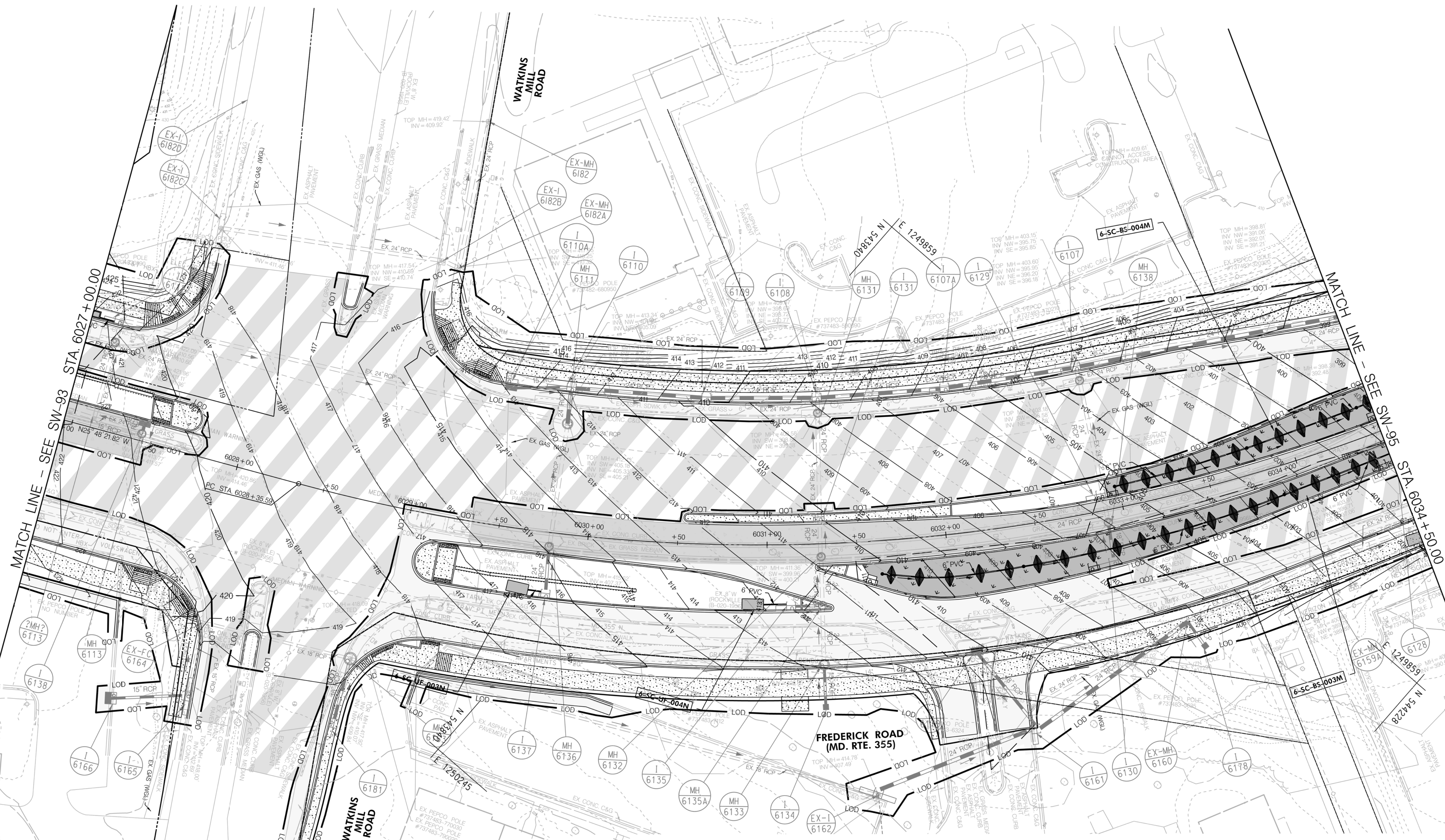
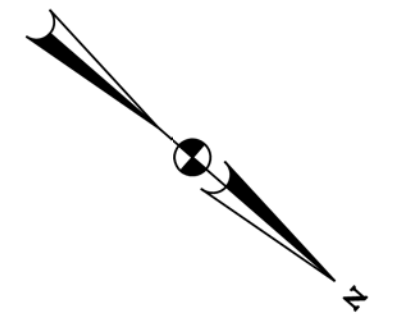
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**MD 355 BUS RAPID TRANSIT (BRT)**  
**SEGMENT 6**  
**STORMWATER MANAGEMENT PLAN**  
 MDE SC-95  
 SCALE : 1" = 30'      DATE : DECEMBER 2022  
 Project No. : 502005      SHEET 382 of 887



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SW-94

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IMPERVIOUS SURF. AREA MILL	
PROPOSED BIO-SWALES	
PROPOSED PLANTER BOXES	
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PROPOSED PERM. PAVEMENT	
PROPOSED BIO-RET. POND	
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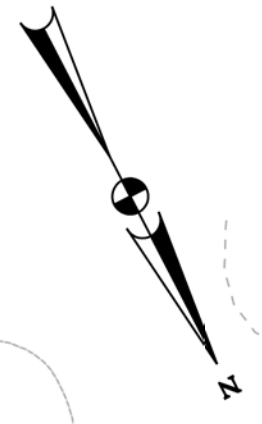
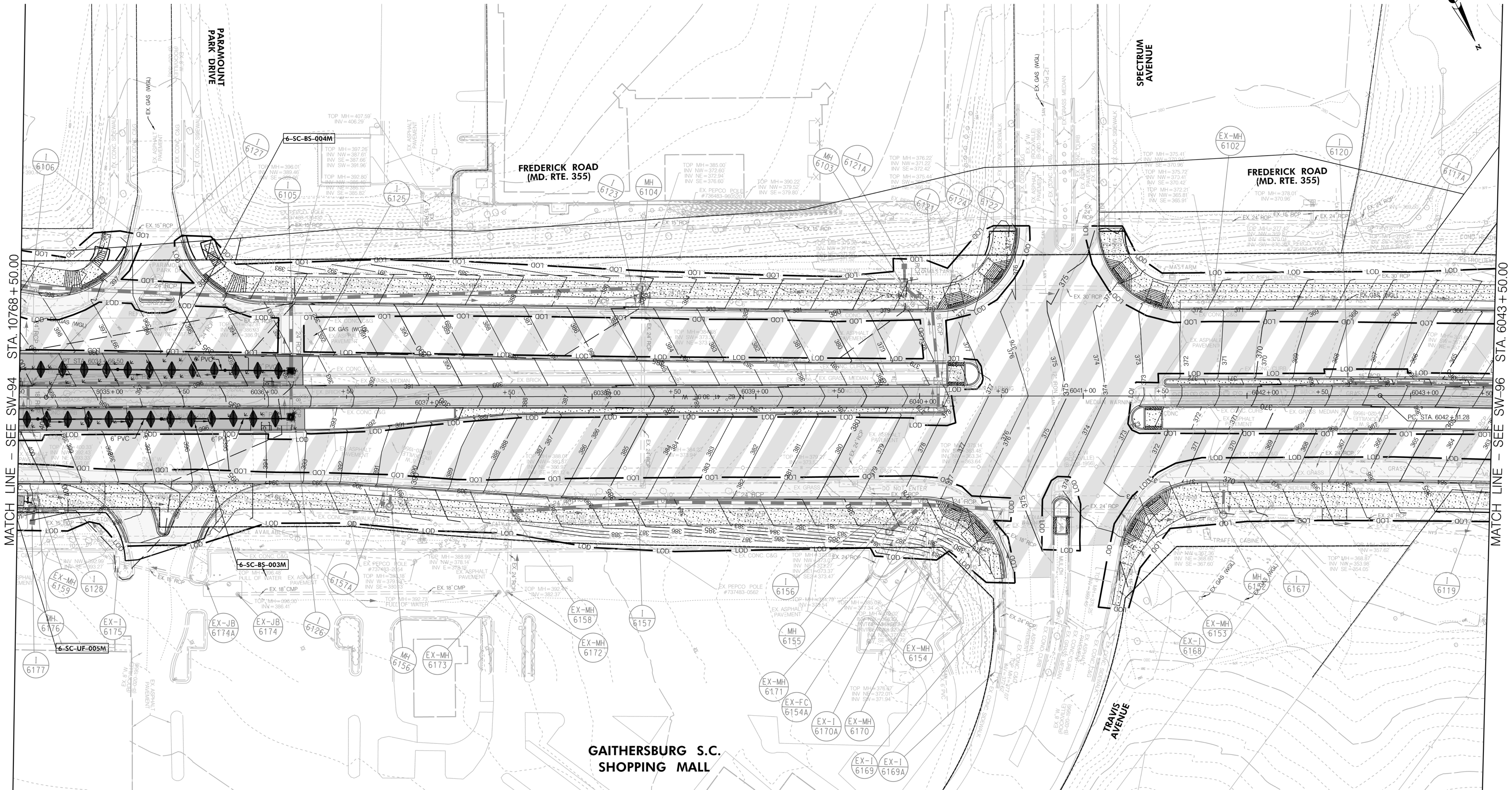
MD 355 BUS RAPID TRANSIT (BRT)  
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 STORMWATER MANAGEMENT PLAN  
 MDE SC-96

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 383 of 887



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MATCH LINE - SEE SW-94 STA. 10768+50.00

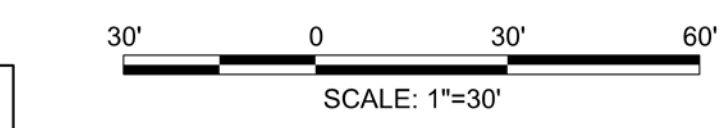
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MD 355 BUS RAPID TRANSIT (BRT)  
 SEGMENT 6  
 STORMWATER MANAGEMENT PLAN  
 MDE SC-97

SCALE: 1" = 30' DATE: DECEMBER 2022

Project No. : 502005 SHEET 384 of 887

SW-95



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SW-96

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IMPERVIOUS SURF. AREA FULL	
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PROPOSED PLANTER BOXES	
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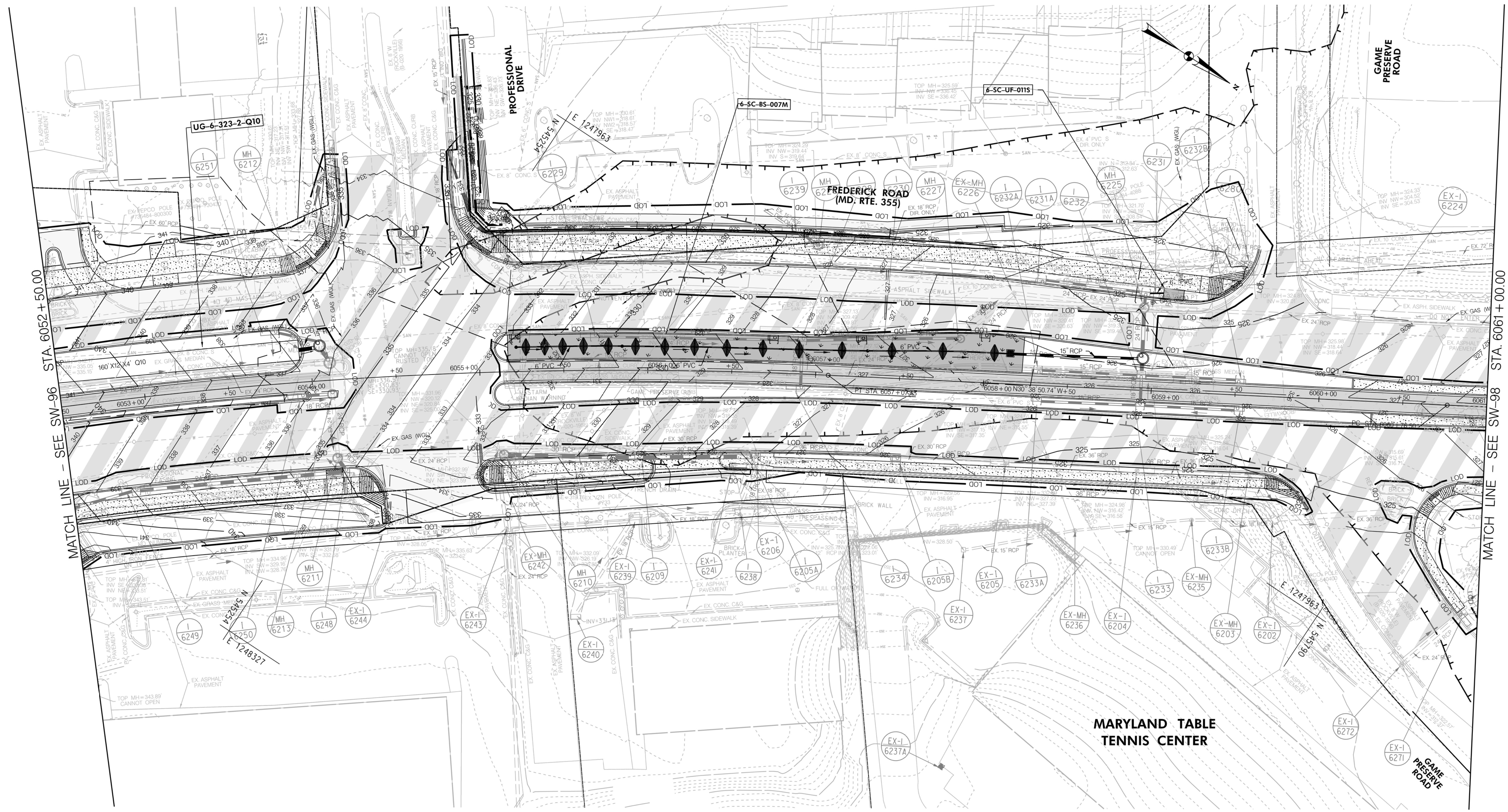
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**MD 355 BUS RAPID TRANSIT (BRT)**  
**SEGMENT 6**  
**STORMWATER MANAGEMENT PLAN**  
 MDE SC-98

SCALE : 1" = 30'      DATE : DECEMBER 2022  
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MATCH LINE - SEE SW-98 STA. 6061+00.00

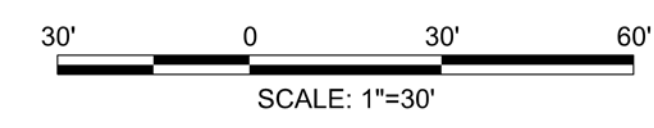
SW-97

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IMPERVIOUS SURF. AREA FULL	
IMPERVIOUS SURF. AREA MILL	
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PROPOSED PLANTER BOXES	
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PROPOSED PERM. PAVEMENT	
PROPOSED BIO-RET. POND	
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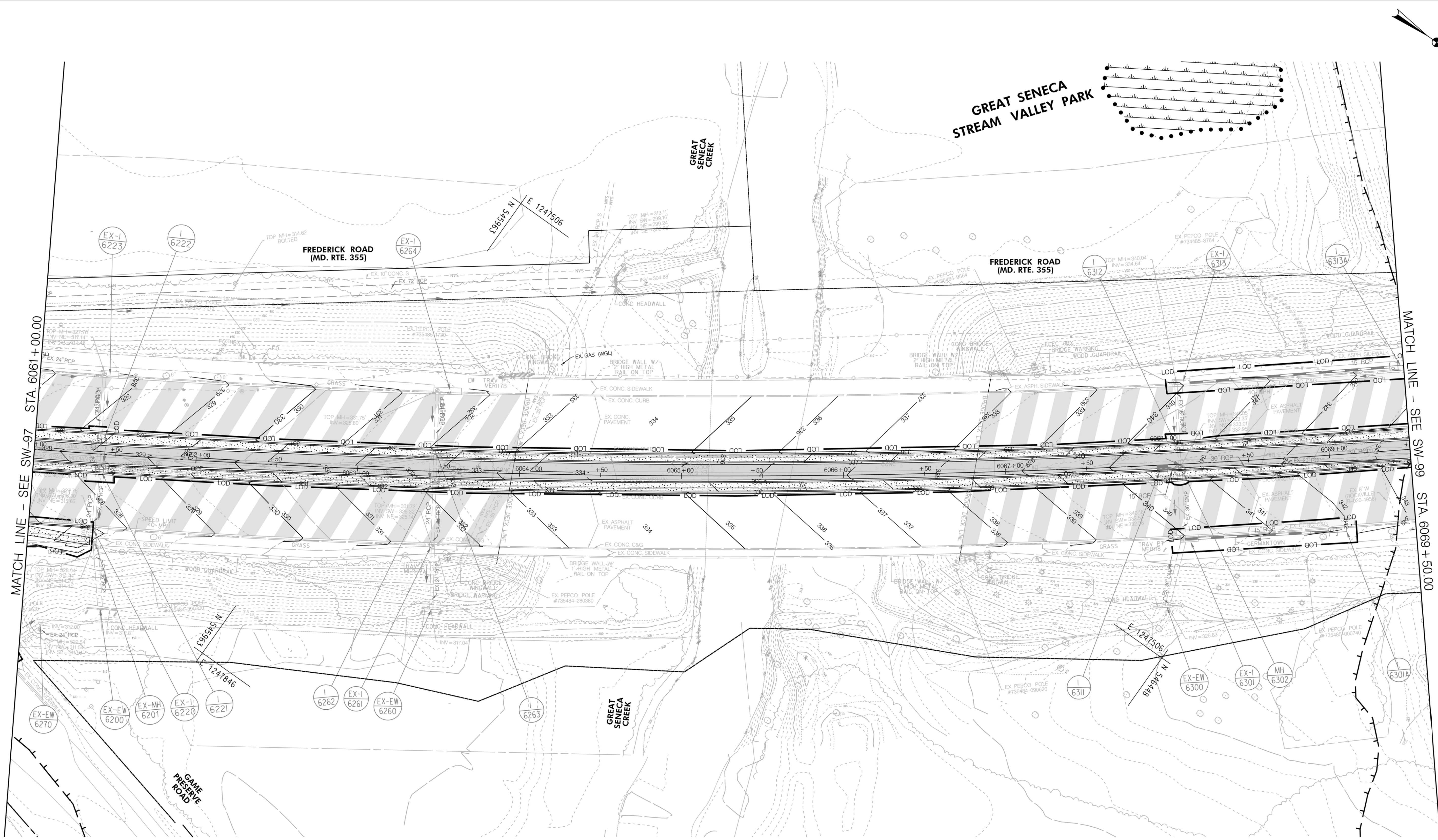
MD 355 BUS RAPID TRANSIT (BRT)  
SEGMENT 6  
STORMWATER MANAGEMENT PLAN  
MDE SC-99

SCALE : 1" = 30' DATE : DECEMBER 2022

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MATCH LINE - SEE SW-99 STA. 6069 + 50.00

MATCH LINE - SEE SW-97 STA. 6061 + 00.00

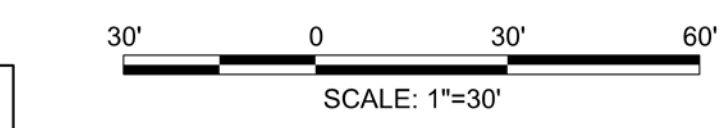
SW-98

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PROPOSED BIO-SWALES	
PROPOSED PLANTER BOXES	
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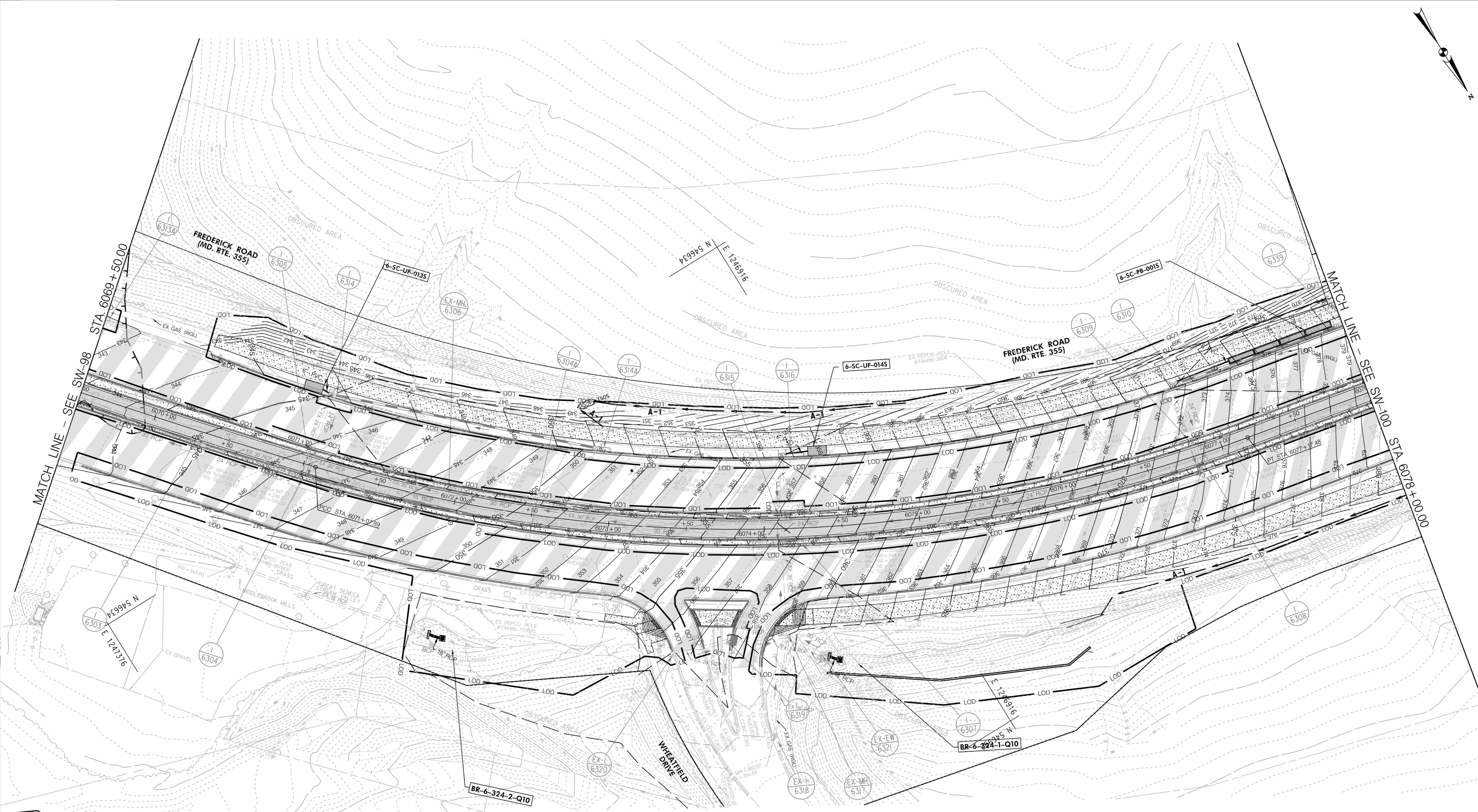
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MD 355 BUS RAPID TRANSIT (BRT)  
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SW-99

**LEGEND**

IMPERVIOUS SURF. AREA FULL	
IMPERVIOUS SURF. AREA MILL	
PROPOSED BIO-SWALES	
PROPOSED PLANTER BOXES	
PROPOSED FILTERS	
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PROPOSED BIO-RET. POND	
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PROPOSED INLET	
PROPOSED STORM FILTER	
PROPOSED BUS PLATFORM	

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

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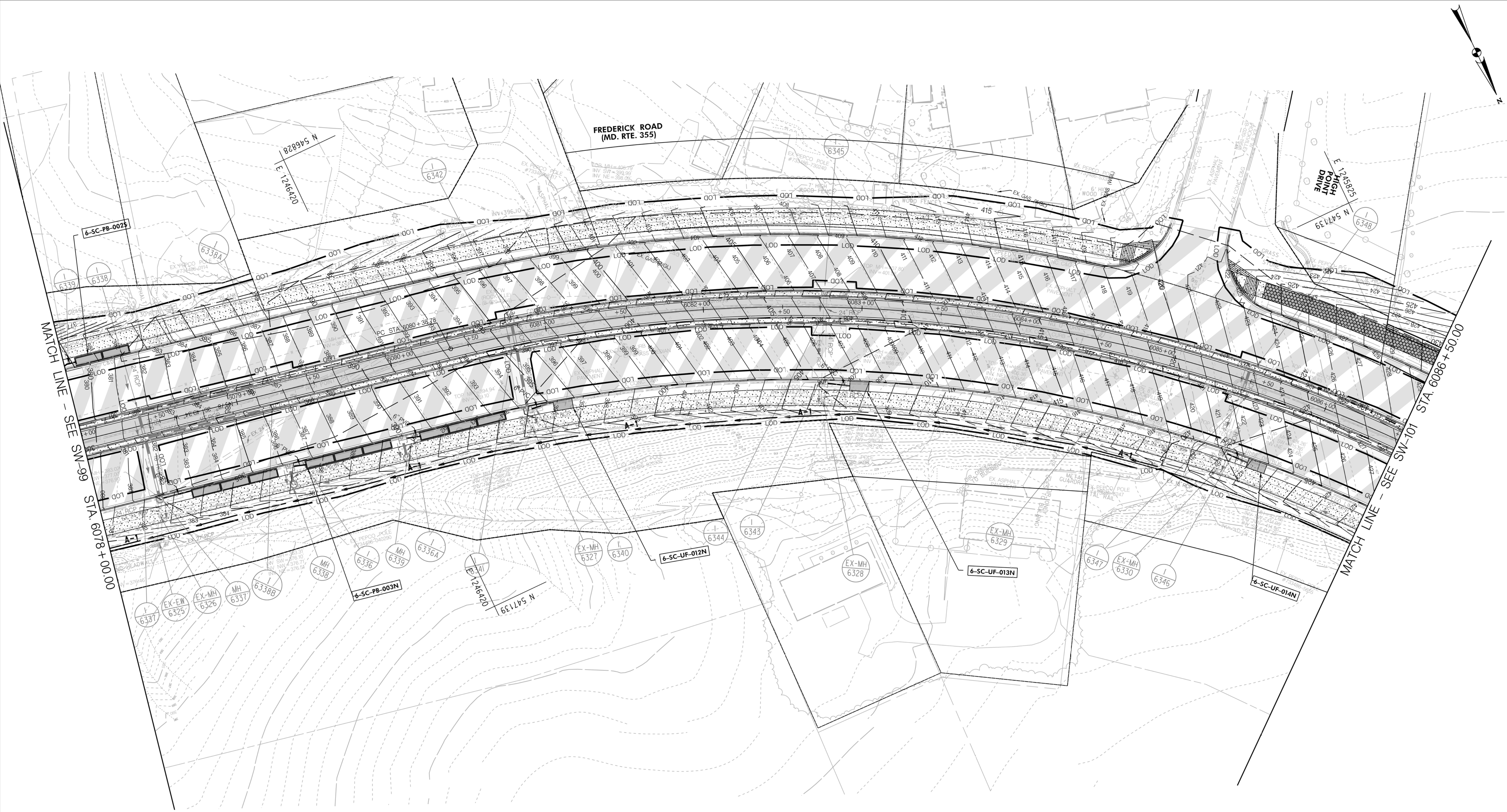
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SW-100

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PROPOSED BIO-SWALES	
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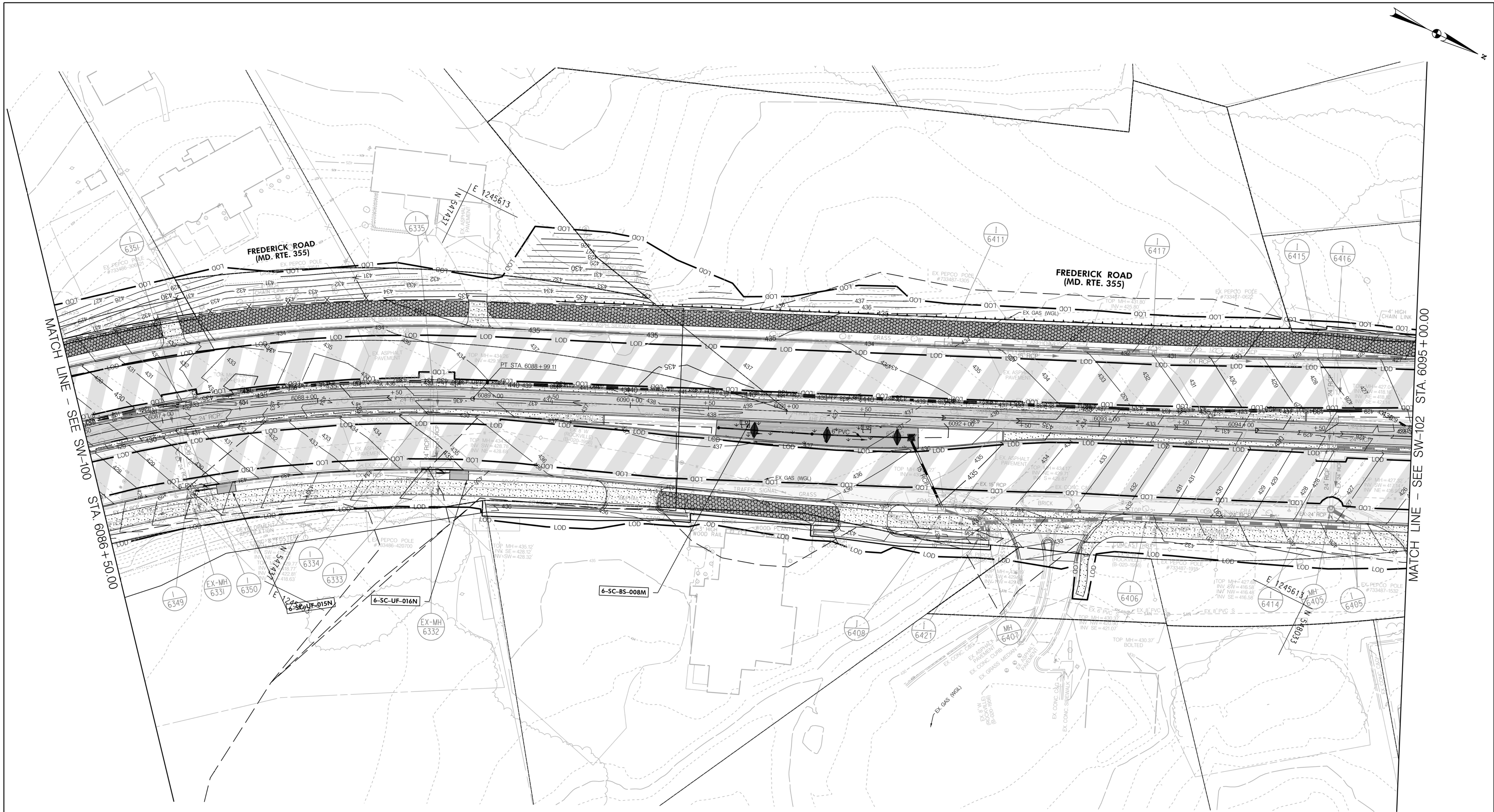
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SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 389 of 887



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SW-101

**LEGEND**

IMPERVIOUS SURF. AREA FULL	
IMPERVIOUS SURF. AREA MILL	
PROPOSED BIO-SWALES	
PROPOSED PLANTER BOXES	
PROPOSED FILTERS	
PROPOSED PERM. PAVEMENT	
PROPOSED BIO-RET. POND	
PROPOSED POTENTIAL FACILITY	
PROPOSED UG FACILITY	
PROPOSED STORM DRAIN	
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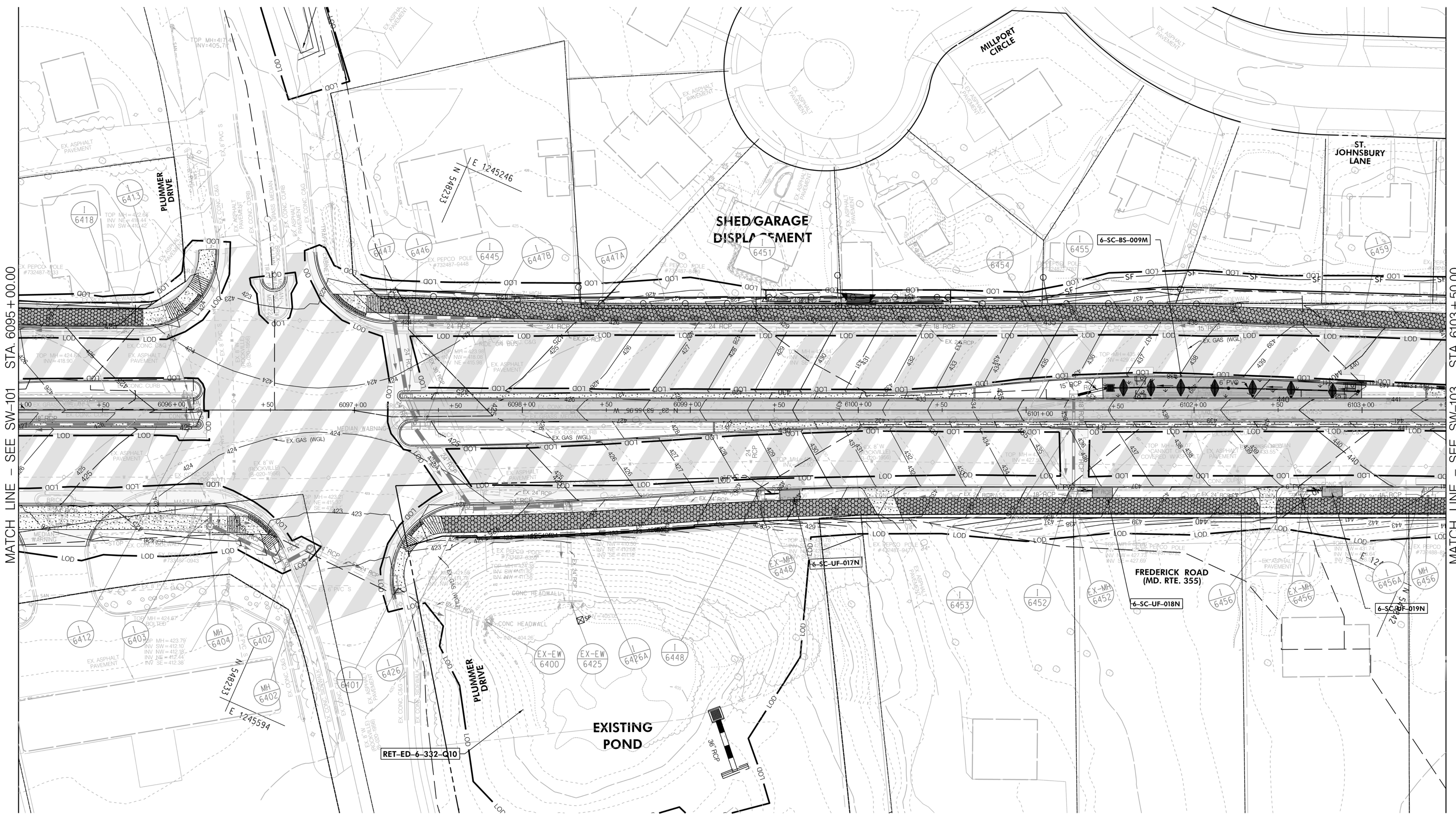
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 APPROVED  
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 Chief, Division of Transportation Engineering  
 Designed by: \_\_\_\_\_ Drawn by: \_\_\_\_\_ Checked by: \_\_\_\_\_

**MD 355 BUS RAPID TRANSIT (BRT)  
 SEGMENT 6  
 STORMWATER MANAGEMENT PLAN**  
 MDE SC-103

SCALE : 1" = 30'      DATE : DECEMBER 2022  
 Project No. : 502005      SHEET 390 of 887



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MATCH LINE - SEE SW-101 STA. 6095+00.00

MATCH LINE - SEE SW-103 STA. 6103+50.00

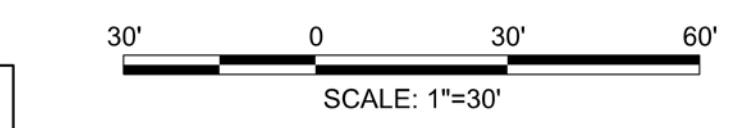
SW-102

**LEGEND**

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IMPERVIOUS SURF. AREA MILL	
PROPOSED BIO-SWALES	
PROPOSED PLANTER BOXES	
PROPOSED FILTERS	
PROPOSED PERM. PAVEMENT	
PROPOSED BIO-RET. POND	
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 Chief, Design Section

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 Chief, Division of Transportation Engineering

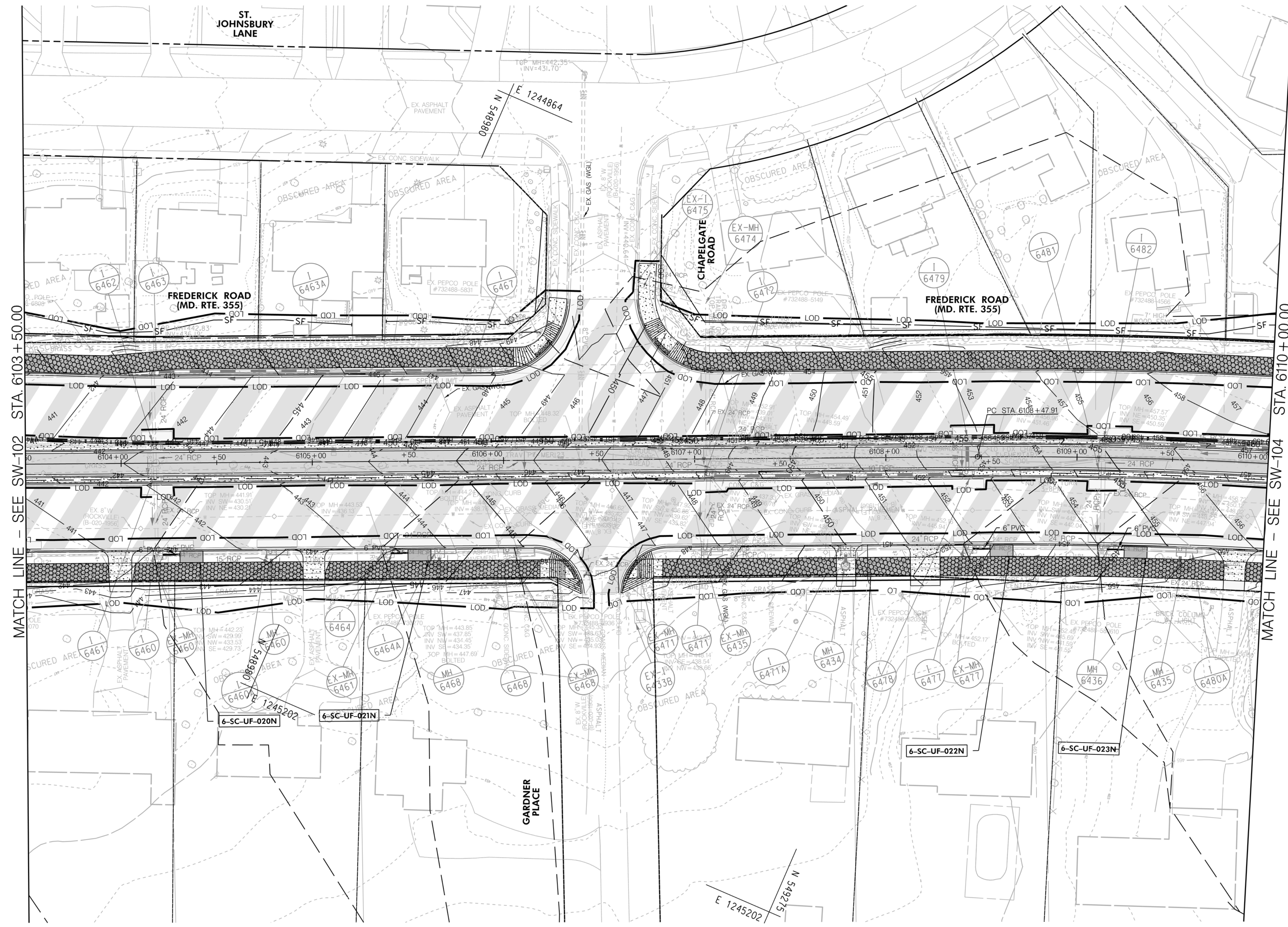
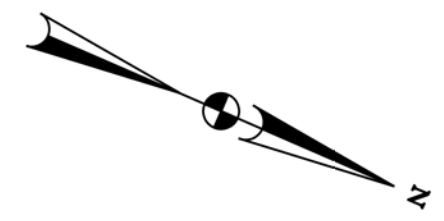
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**MD 355 BUS RAPID TRANSIT (BRT)**  
**SEGMENT 6**  
**STORMWATER MANAGEMENT PLAN**  
 MDE SC-104

SCALE : 1" = 30'      DATE : DECEMBER 2022

Project No. : 502005      SHEET 391 of 887





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MATCH LINE - SEE SW-102 STA 6103+50.00

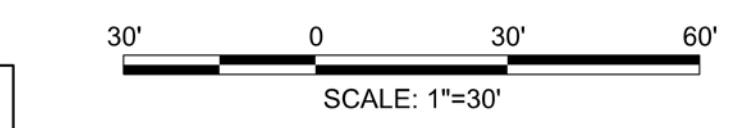
MATCH LINE - SEE SW-104 STA 6110+00.00

**LEGEND**

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PROPOSED BIO-SWALES	
PROPOSED PLANTER BOXES	
PROPOSED FILTERS	
PROPOSED PERM. PAVEMENT	
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Chief, Division of Transportation Engineering  
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MD 355 BUS RAPID TRANSIT (BRT)  
SEGMENT 6  
STORMWATER MANAGEMENT PLAN  
MDE SC-105

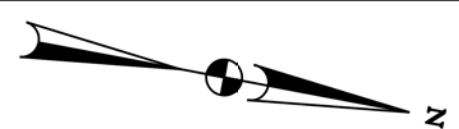
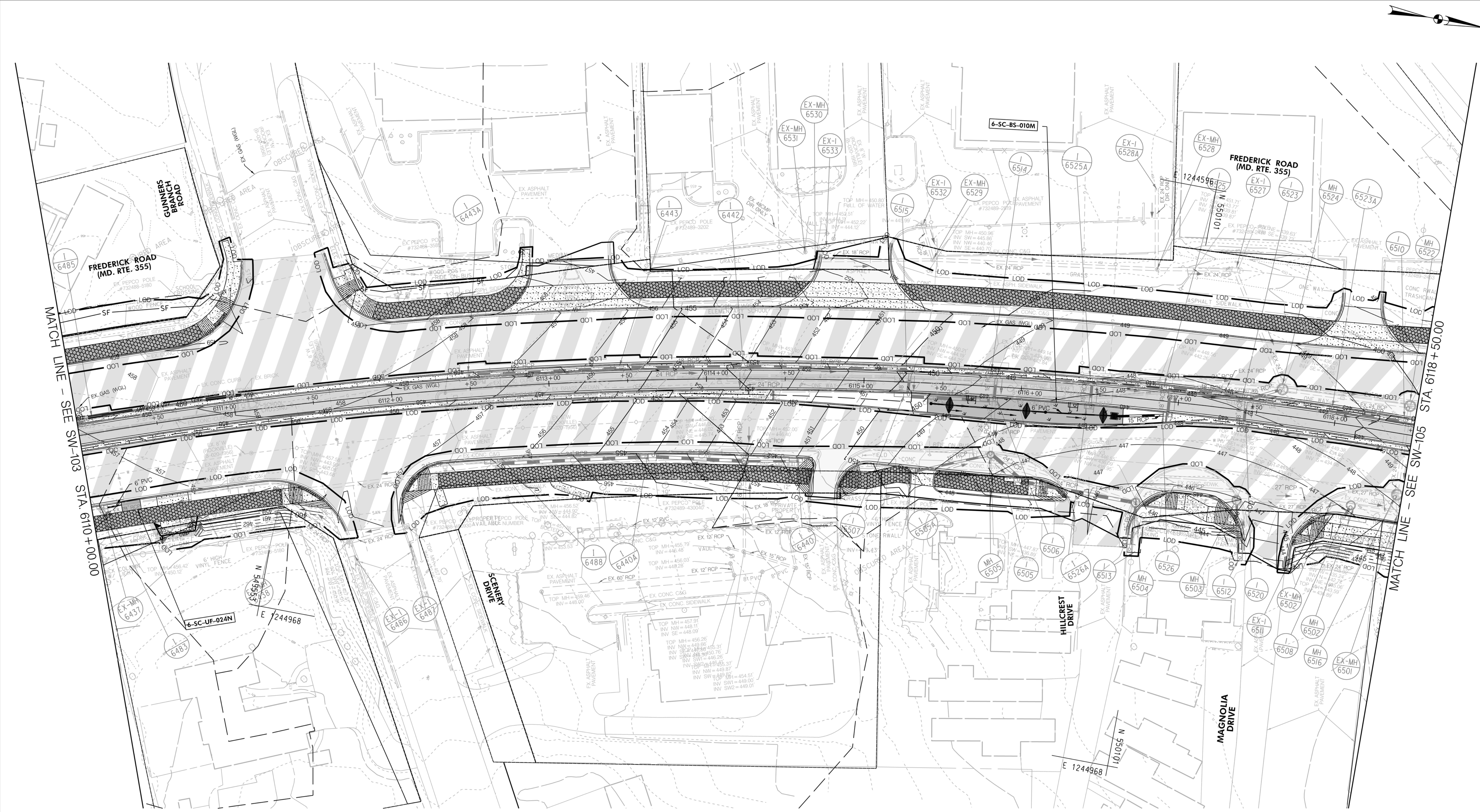
SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 392 of 887

SW-103



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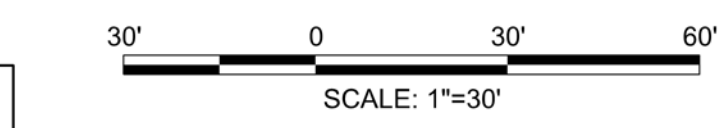


**LEGEND**

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IMPERVIOUS SURF. AREA MILL	
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PROPOSED PLANTER BOXES	
PROPOSED FILTERS	
PROPOSED PERM. PAVEMENT	
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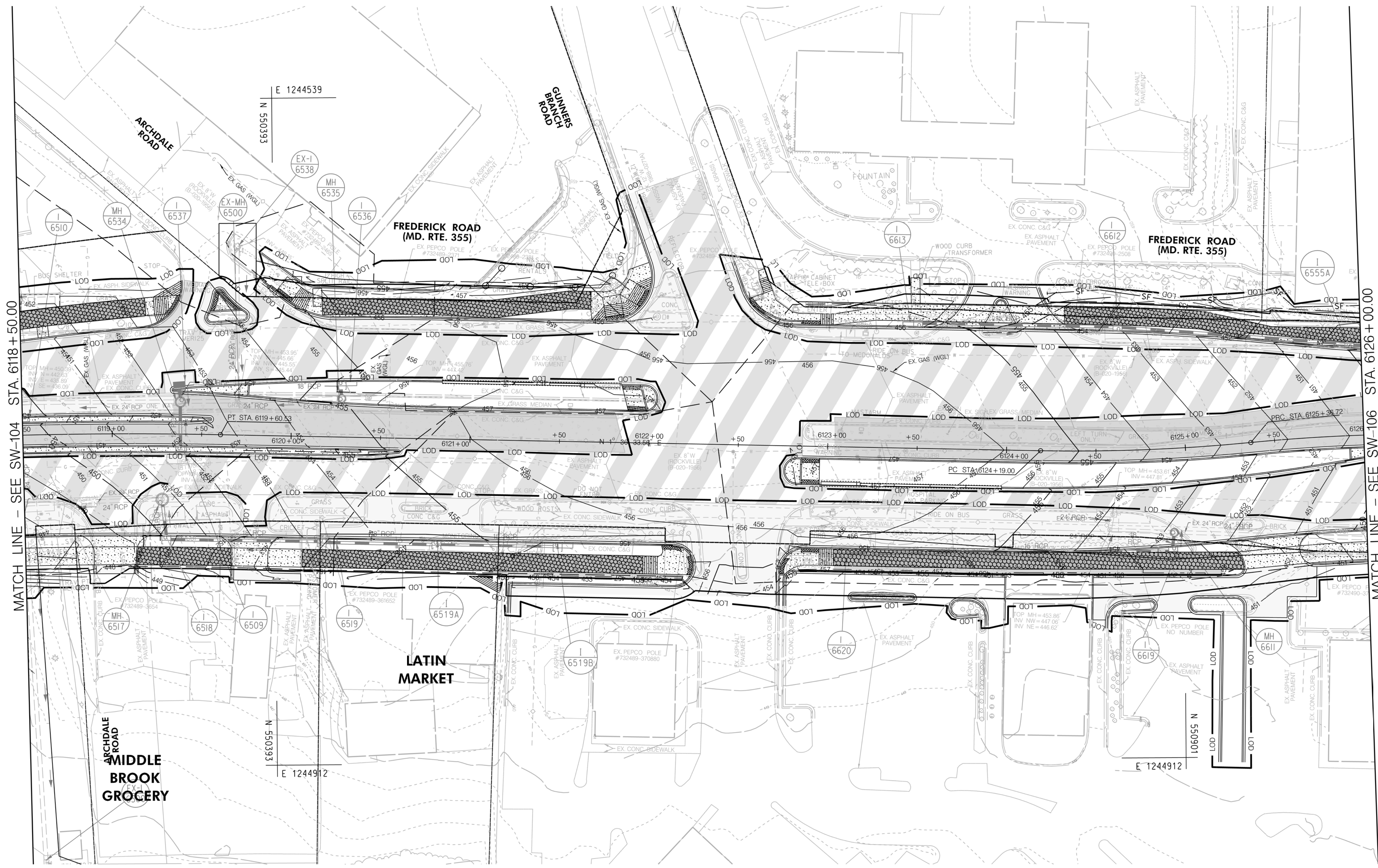
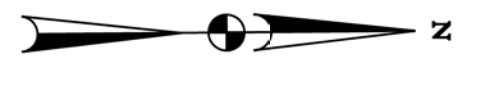
MD 355 BUS RAPID TRANSIT (BRT)  
 SEGMENT 6  
 STORMWATER MANAGEMENT PLAN  
 MDE SC-106

SCALE: 1" = 30' DATE: DECEMBER 2022

Project No.: 502005 SHEET 393 of 887

SW-104





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MATCH LINE - SEE SW-104 STA. 6118 + 50.00

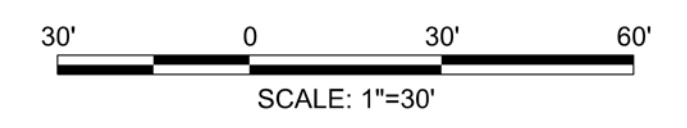
MATCH LINE - SEE SW-106 STA. 6126 + 00.00

**LEGEND**

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
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MD 355 BUS RAPID TRANSIT (BRT)  
SEGMENT 6  
STORMWATER MANAGEMENT PLAN  
MDE SC-107

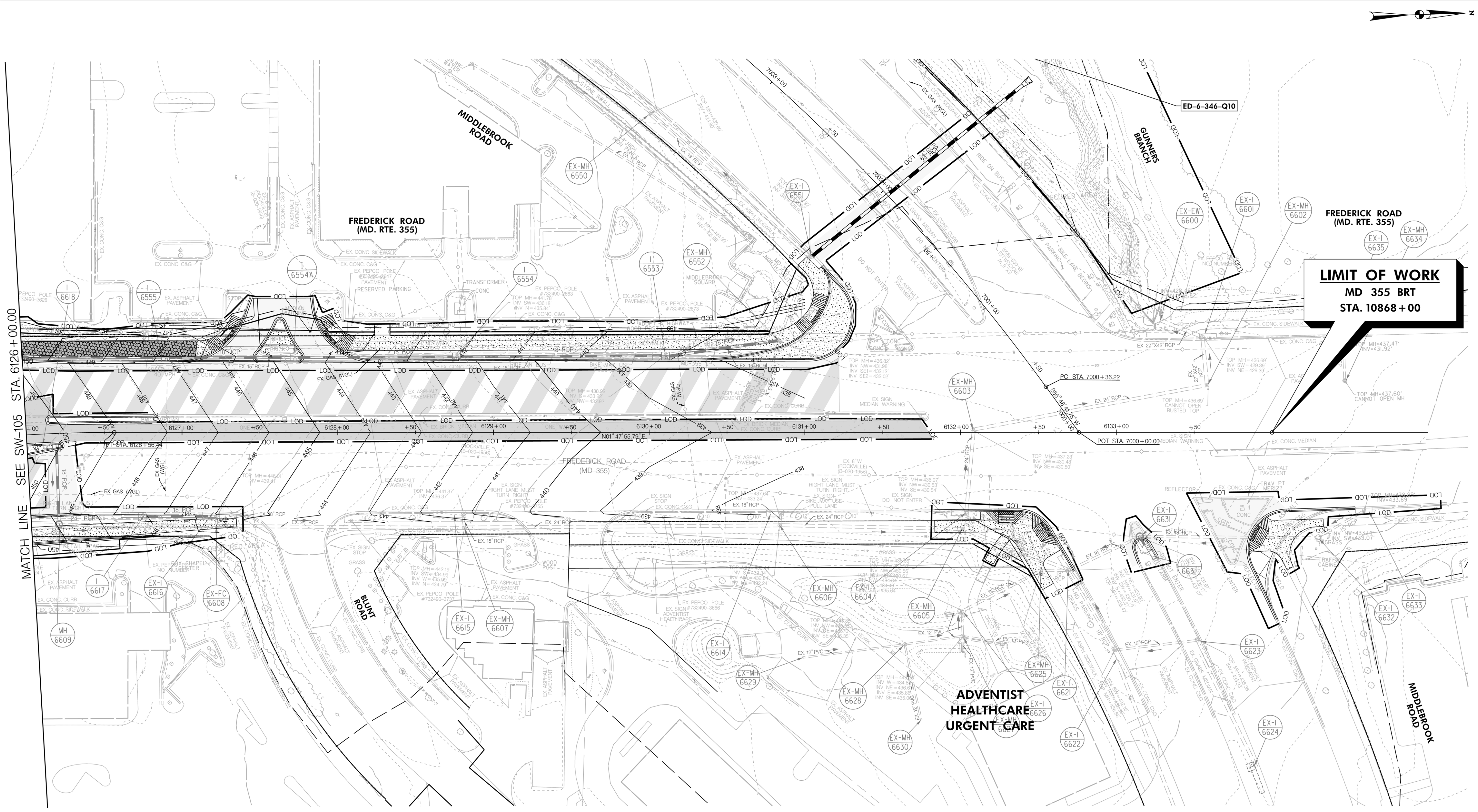
SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 394 of 887

SW-105



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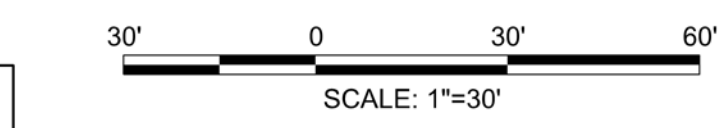
**LIMIT OF WORK**  
**MD 355 BRT**  
**STA. 10868 + 00**

**LEGEND**

IMPERVIOUS SURF. AREA FULL	
IMPERVIOUS SURF. AREA MILL	
PROPOSED BIO-SWALES	
PROPOSED PLANTER BOXES	
PROPOSED FILTERS	
PROPOSED PERM. PAVEMENT	
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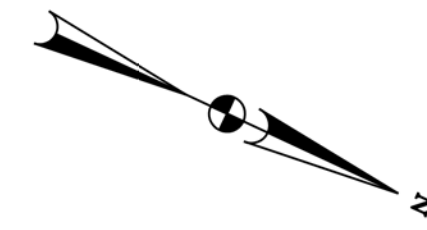
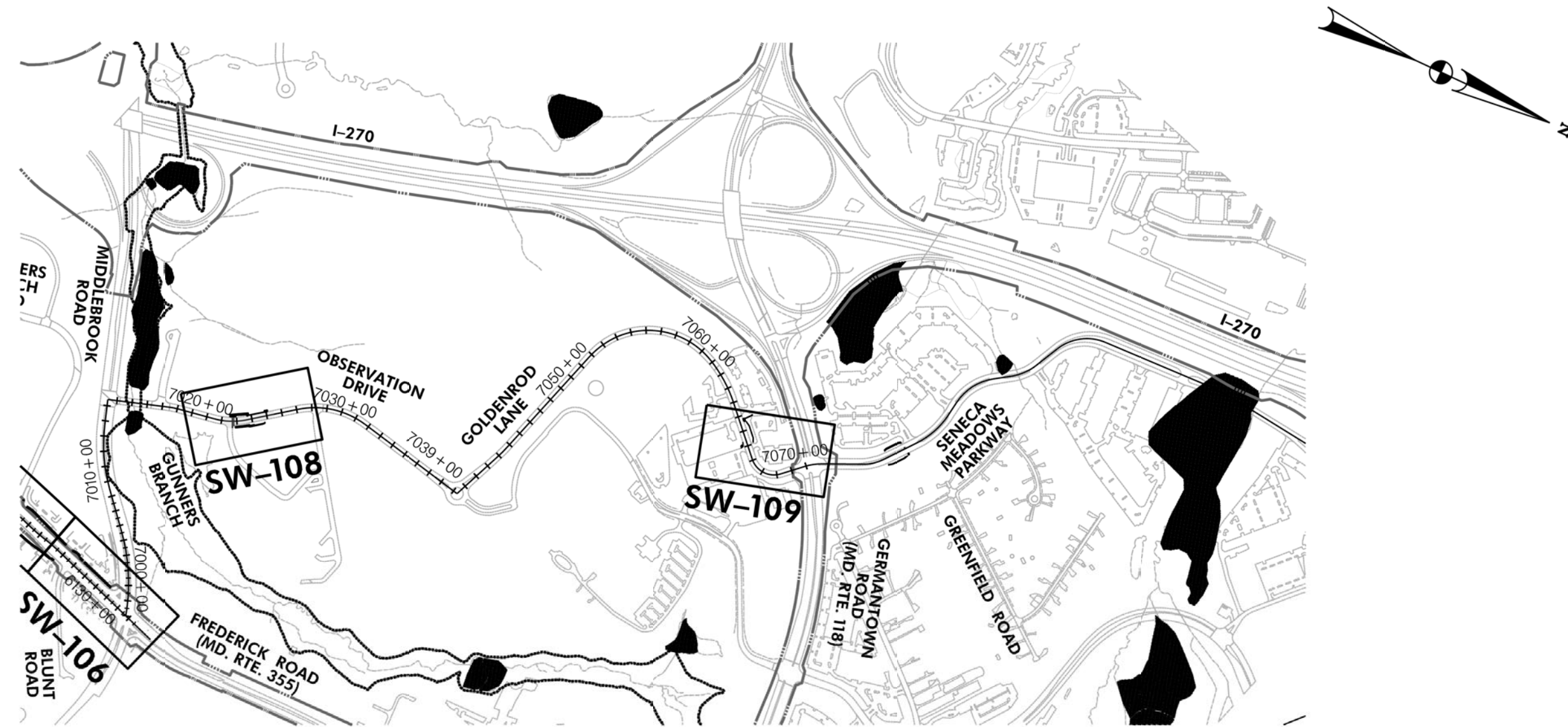
**MD 355 BUS RAPID TRANSIT (BRT)**  
**SEGMENT 6**  
**STORMWATER MANAGEMENT PLAN**  
 MDE SC-108

SCALE : 1" = 30' DATE : DECEMBER 2022  
 Project No. : 502005 SHEET 395 of 887

SW-106



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**Table 1: MD-355 BRT (35% Design) ESDv Facilities**

Station	Side of Road	POI/LOI	Watershed	BMP Types	BMP ID	IART Managed (ac)	Credited ESDv (cf)
7065+40	S	7-102	SENECA CREEK	Planter Box	7-RC-PB-001S	0.18	1,645
7025+00	S	7-101	SENECA CREEK	Planter Box	7-RC-PB-002S	0.28	2,532

**Table 2: MD-355 BRT (35% Design) ESDv and Q10 Bioretention Facilities\***

Station	Side of Road	POI/LOI	Watershed	BMP Types	BMP ID	IART Managed (ac)	Surface Storage (cf)	Sub-Surface Storage (cf)	Total ESDv (cf)
2112+25	SB	2-201A	CABIN JOHN	Bioretention Pond	BR-2-201A-Q10	N/A	2,302	4,500	6,802
2116+10	SB	2-217C	CABIN JOHN	Bioretention Pond	BR-2-217D-Q10	N/A	180	1,200	1,380
4062+00	NB	4-245	ROCK CREEK	Bioretention Pond	BR-4-245-Q1C	N/A	1,282	3,000	4,282
5063+30	NB	5-148	SENECA CREEK	Bioretention Pond	BR-5-148-Q1C	N/A	139	720	859
6075+00	NB	6-324	SENECA CREEK	Bioretention Pond	BR-6-324-1-Q10	N/A	489	2,289	2,289
6072+25	NB	6-324	SENECA CREEK	Bioretention Pond	BR-6-324-2-Q10	N/A	1,076	4,676	4,676

\*These facilities are also being used for Q10 control. There is no IART being sought from these BMPs

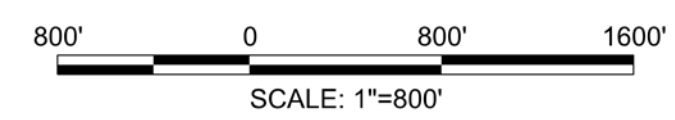
**Table 3: MD-355 BRT (35% Design) Q10 BMP Summary**

Station	Side of Road (NB, SB)	POI/LOI	Watershed	BMP Type	BMP ID	Storage Volume Provided (cf)
7025+00	SB	POI-7-102	Seneca Creek	Planter Box	7-RC-PB-001S	0

**Table 4: MD-355 BRT (35% Design) IART, ESDv, and Q10 Requirements Per Watershed**

Total Per Watershed	IART Required (ac.)	IART Provided (ac.)	ESDv Required (cf)	ESDv Provided (cf)	10-YR Detention Storage Required (cf)	10-YR Detention Storage Provided
Cabin John	11.55	17.07	56,187	90,723	255,208	
Potomac	9.63	7.83	47,687	43,293	175,888	*Q10 is provided per POI/LOI as required
Rock Creek	24.62	23.66	129,380	121,244	695,778	
Seneca Creek	13.27	15.22	76,385	68,178	313,848	
<b>Total</b>	<b>59.07</b>	<b>63.78</b>	<b>309,639</b>	<b>323,438</b>	<b>1,440,723</b>	

SW-107



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Chief, Division of Transportation Engineering

Designed by : \_\_\_\_\_ Drawn by : \_\_\_\_\_ Checked by : \_\_\_\_\_

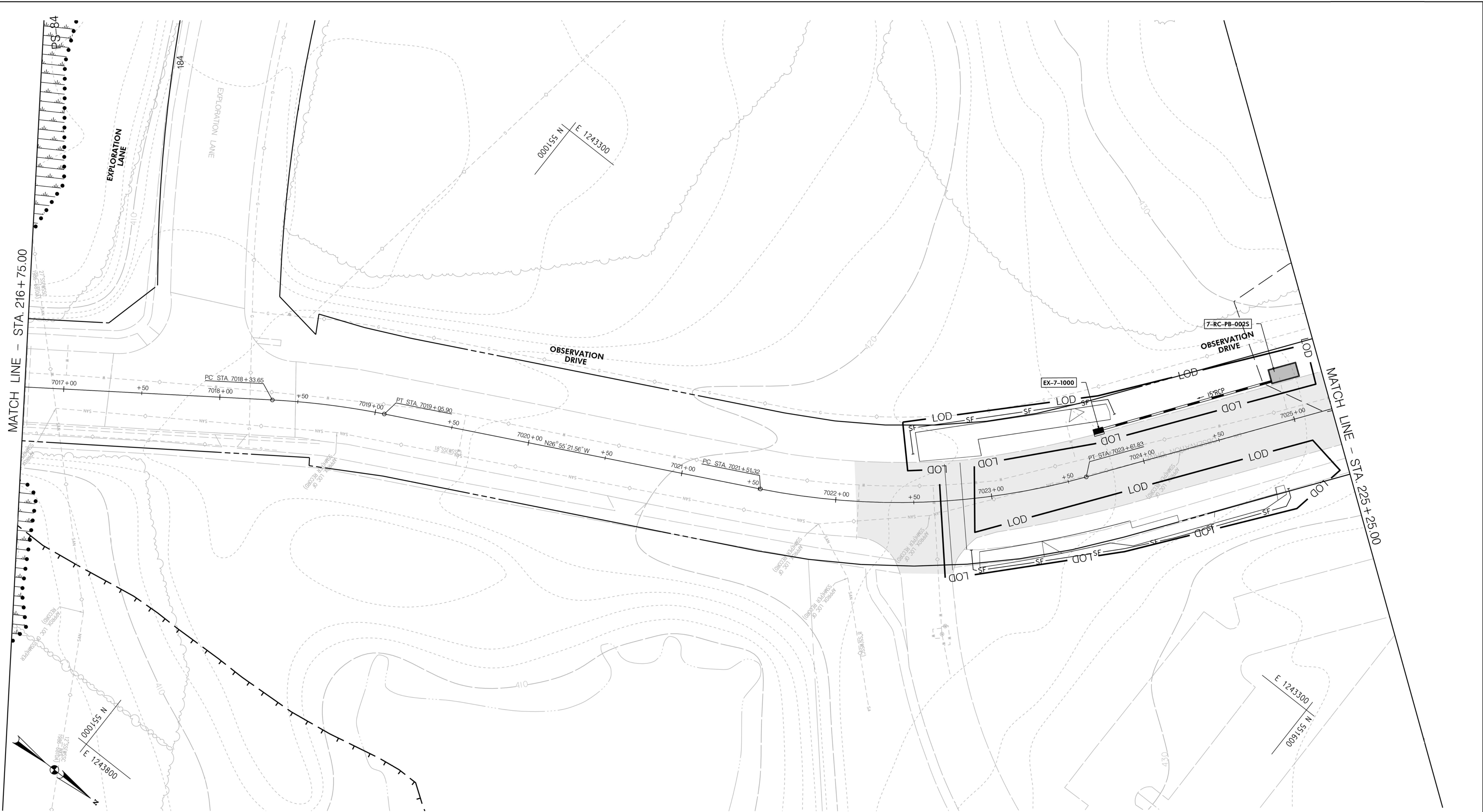
MD 355 BUS RAPID TRANSIT (BRT)  
 SEGMENT 7  
 STORMWATER MANAGEMENT KEY MAP  
 MDE SC-109

SCALE : 1" = 800' DATE : DECEMBER 2022

Project No. : 502005 SHEET 396 of 887



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30' 0 30' 60'  
 SCALE: 1"=30'

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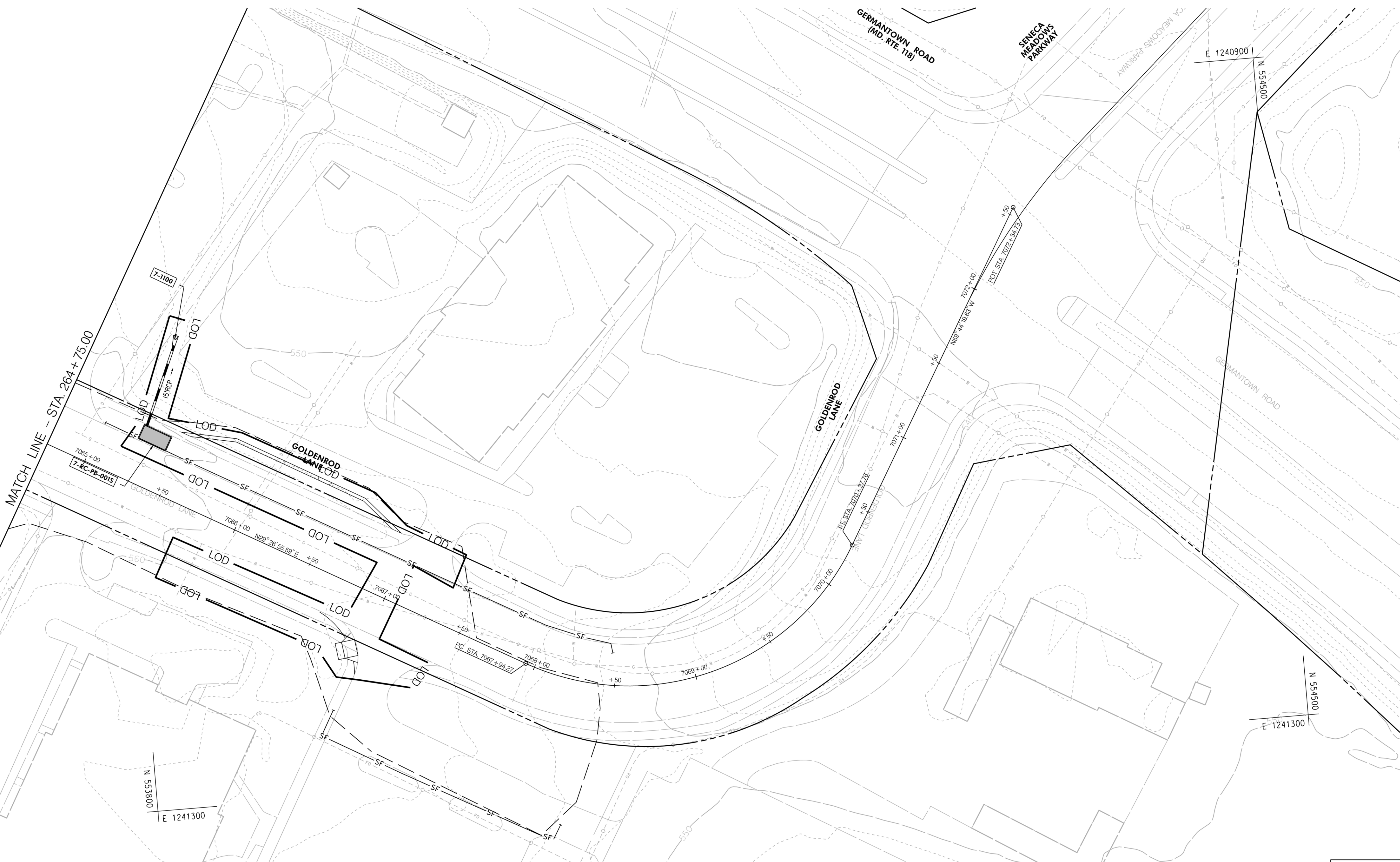
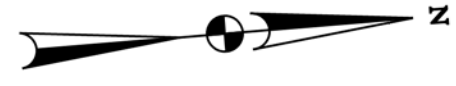
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MD 355 BUS RAPID TRANSIT (BRT)  
 SEGMENT 7  
 STORMWATER MANAGEMENT PLAN  
 MDE SC-110  
 SCALE : 1" = 30' DATE : DECEMBER 2022  
 Project No. : 502005 SHEET 397 of 887

SW-108



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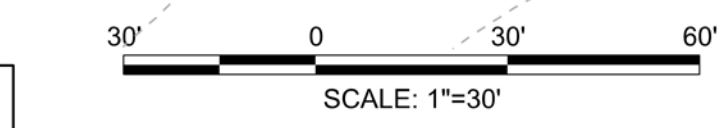
SW-109

**LEGEND**

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PROPOSED PLANTER BOXES	
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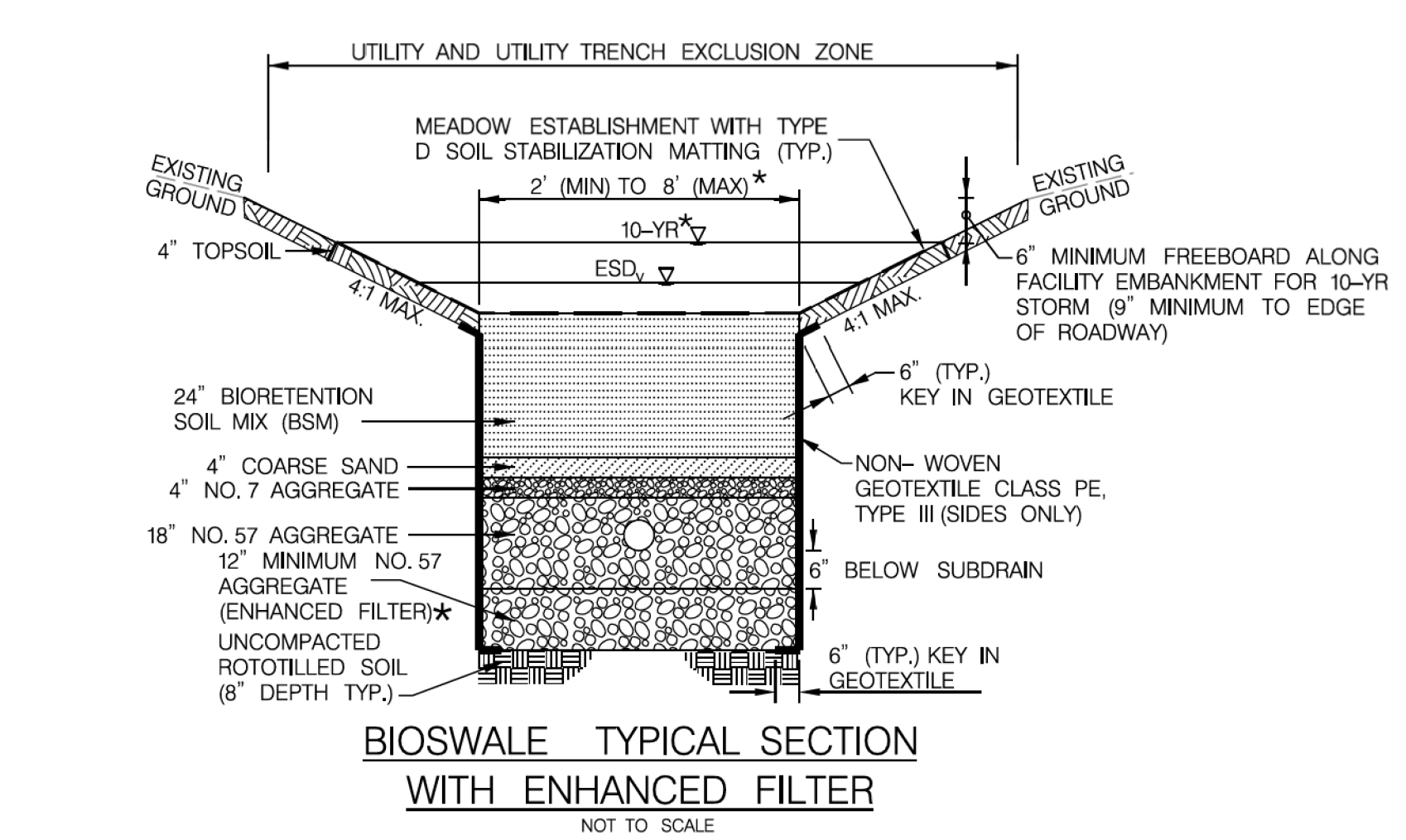
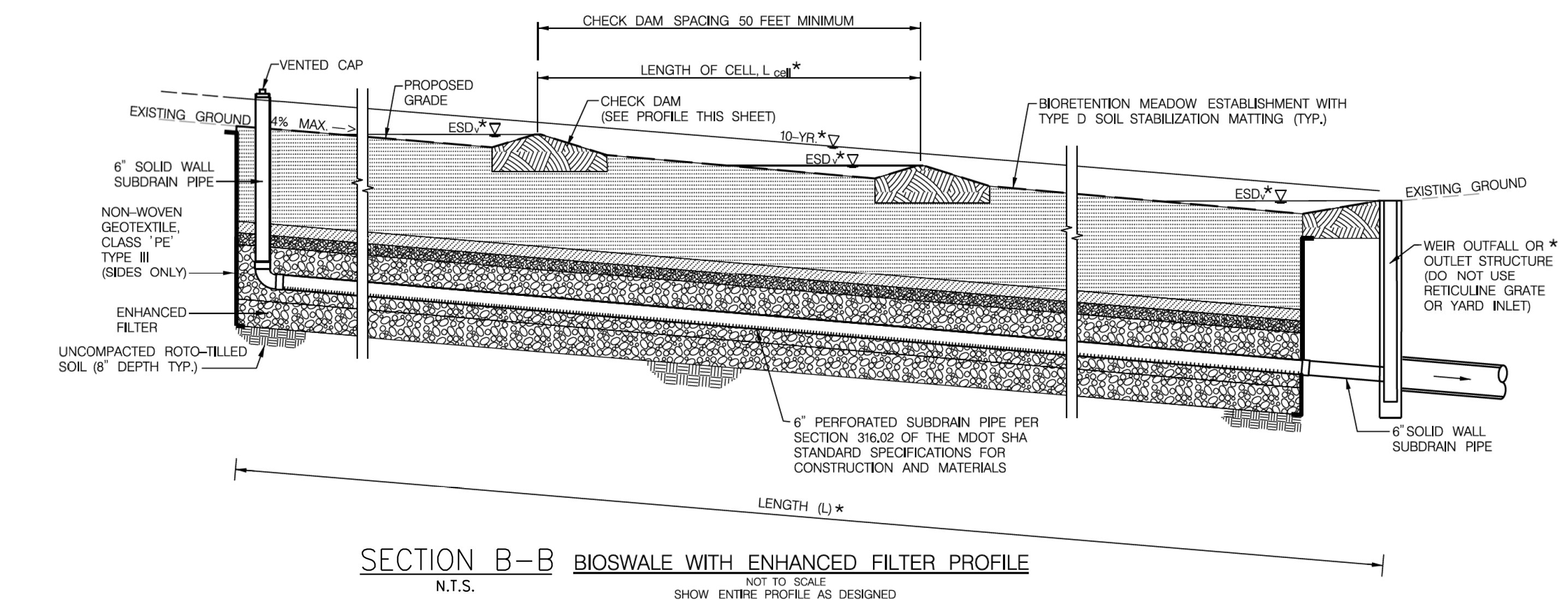
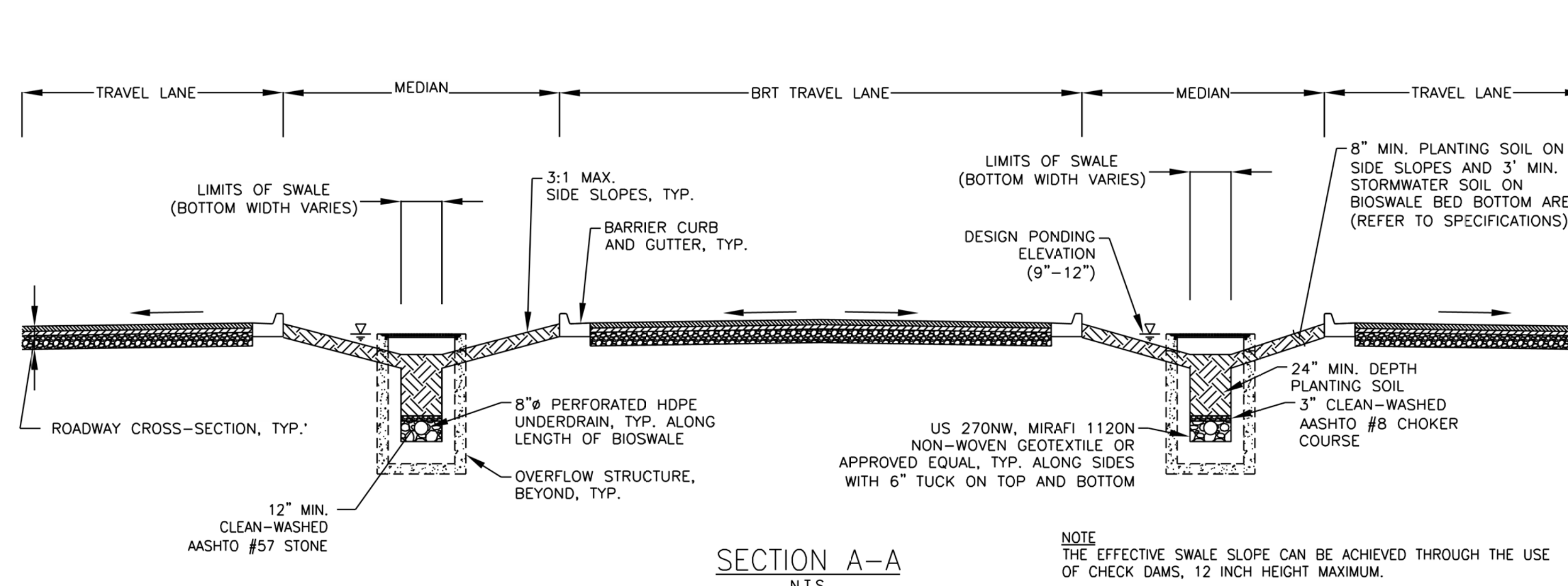
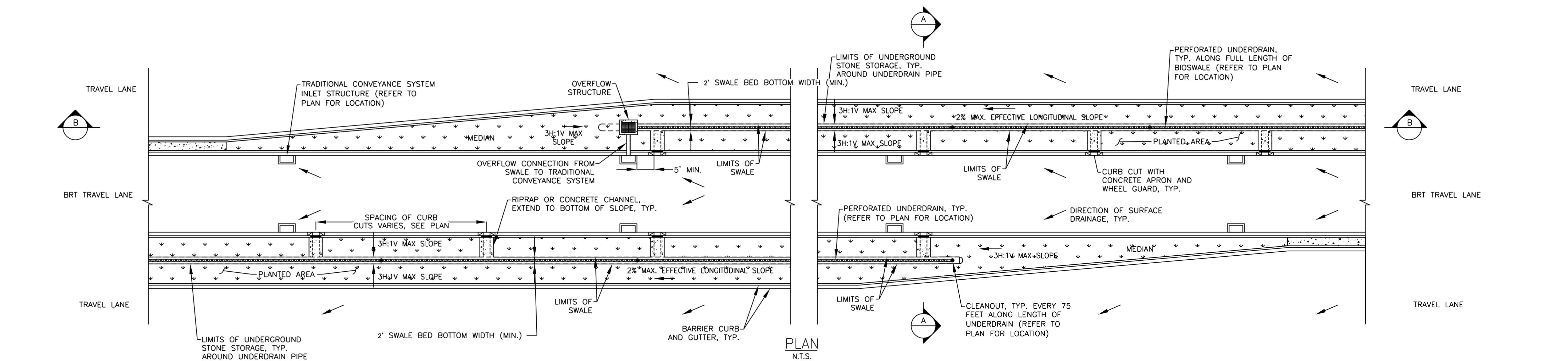
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION  
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MD 355 BUS RAPID TRANSIT (BRT)  
 SEGMENT 7  
 STORMWATER MANAGEMENT PLAN  
 MDE SC-111  
 SCALE : 1" = 30' DATE : DECEMBER 2022  
 Project No. : 502005 SHEET 398 of 887

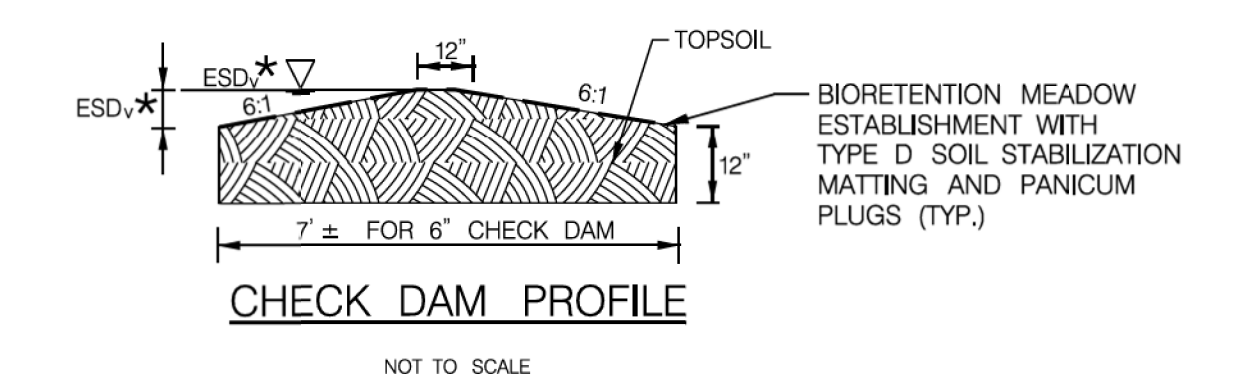


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NOTE  
THE EFFECTIVE SWALE SLOPE CAN BE ACHIEVED THROUGH THE USE OF CHECK DAMS, 12 INCH HEIGHT MAXIMUM.

SECTION B-B BIOSWALE WITH ENHANCED FILTER PROFILE  
N.T.S.



MEDIAN BIOSWALE  
N.T.S.

**ntec**  
1ST PLACE,  
RYLAND 20707  
982-2900  
www.slantec.com

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LICENSE NO. \_\_\_\_\_ EXPIRATION DATE: \_\_\_\_\_

NO.	REVISION	DATE	BY

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DIVISION OF TRANSPORTATION ENGINEERING  
GAITHERSBURG, MARYLAND

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Chief, Design Section  
APPROVED  
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Chief, Division of Transportation Engineering

Designed by: \_\_\_\_\_ Drawn by: \_\_\_\_\_ Checked by: \_\_\_\_\_

SW-110

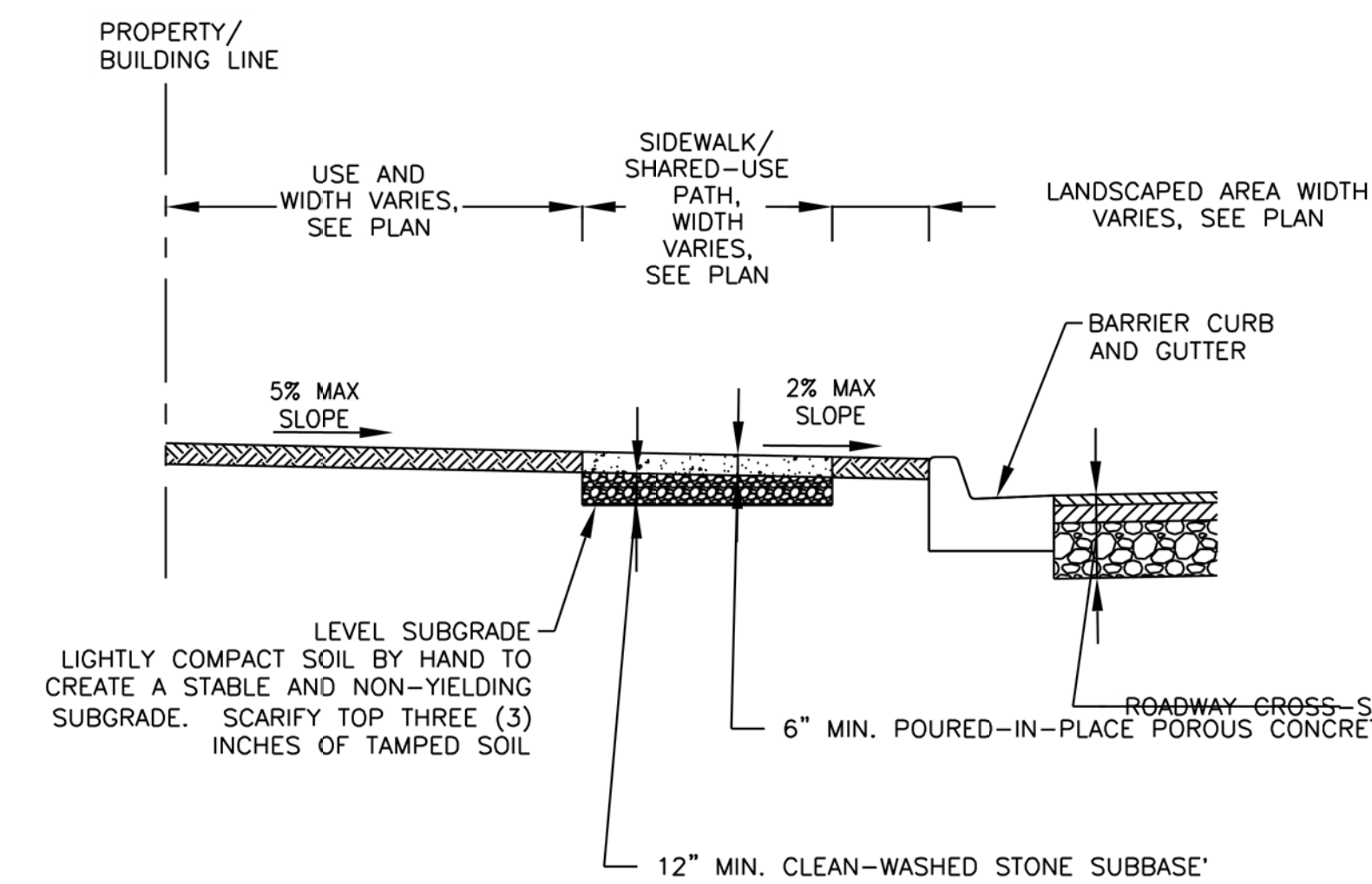
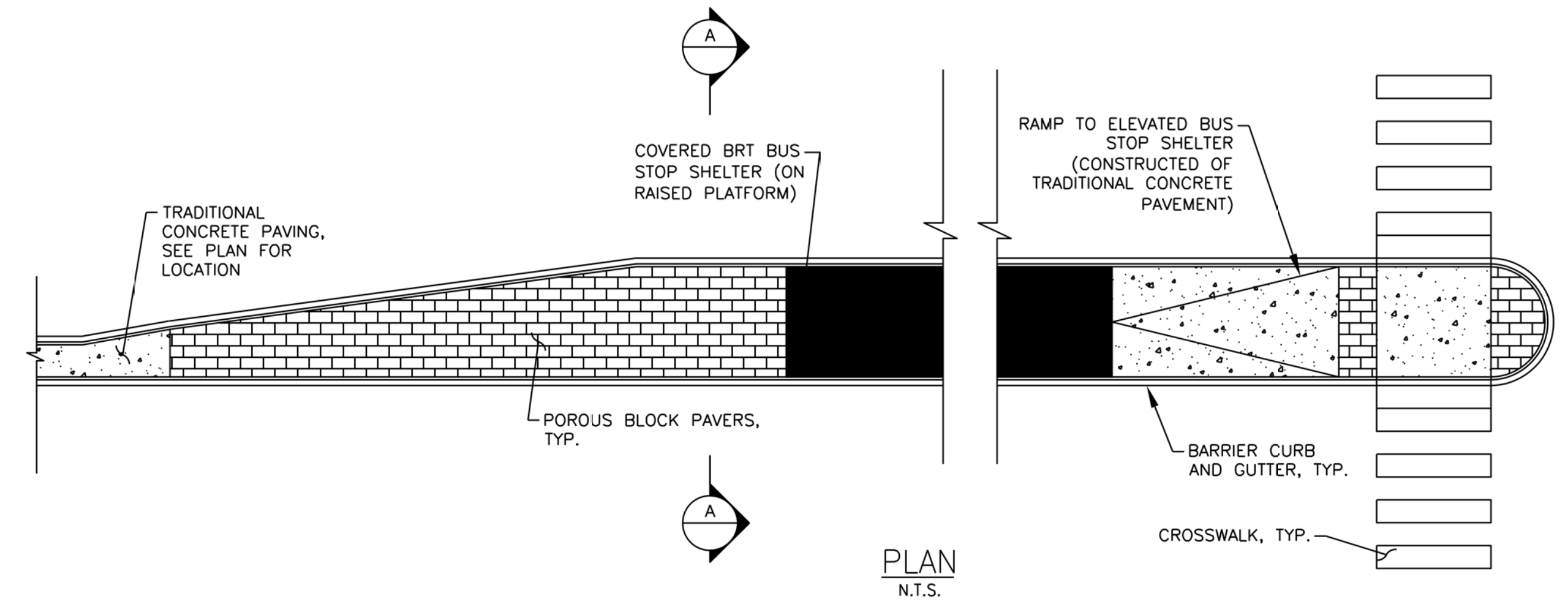
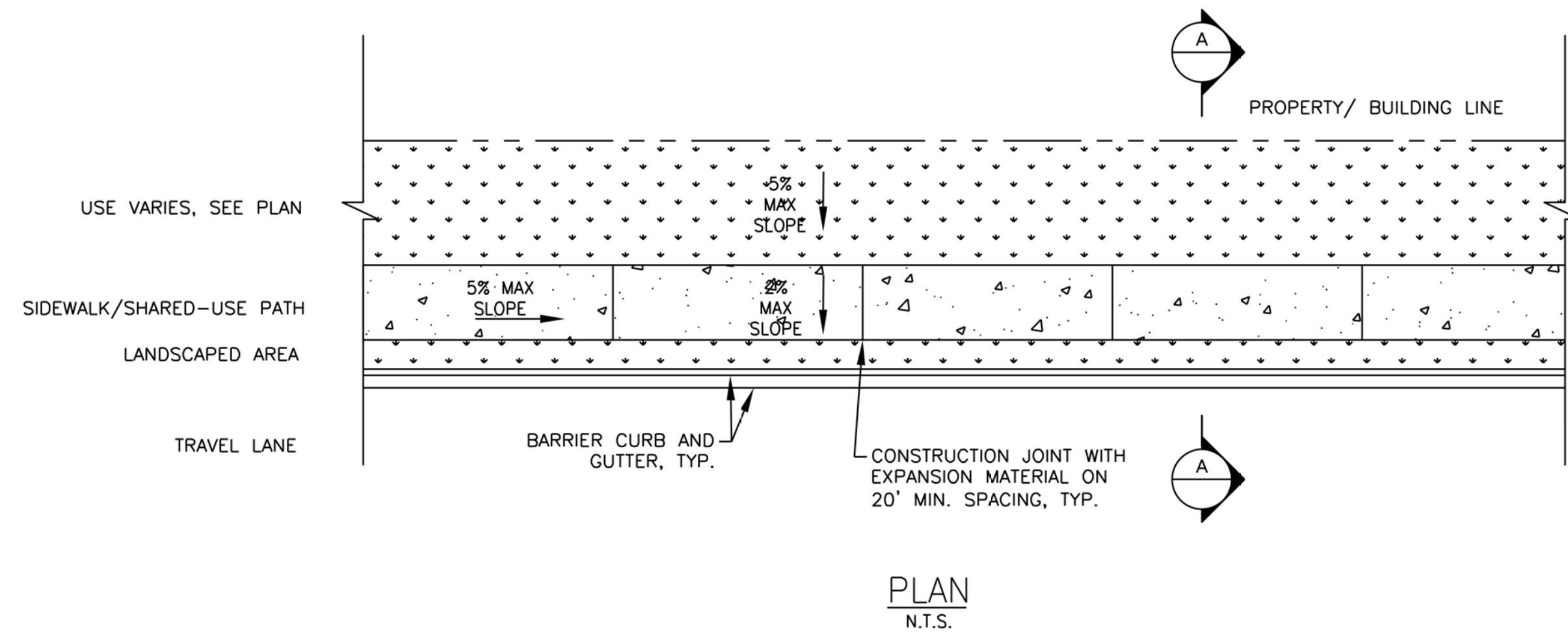
MD 355 BUS RAPID TRANSIT (BRT)  
DETAILS  
STORMWATER MANAGEMENT PLAN  
SC-112

SCALE: 1" = 30' DATE: DECEMBER 2022

Project No. 502005 SHEET 399 of 887

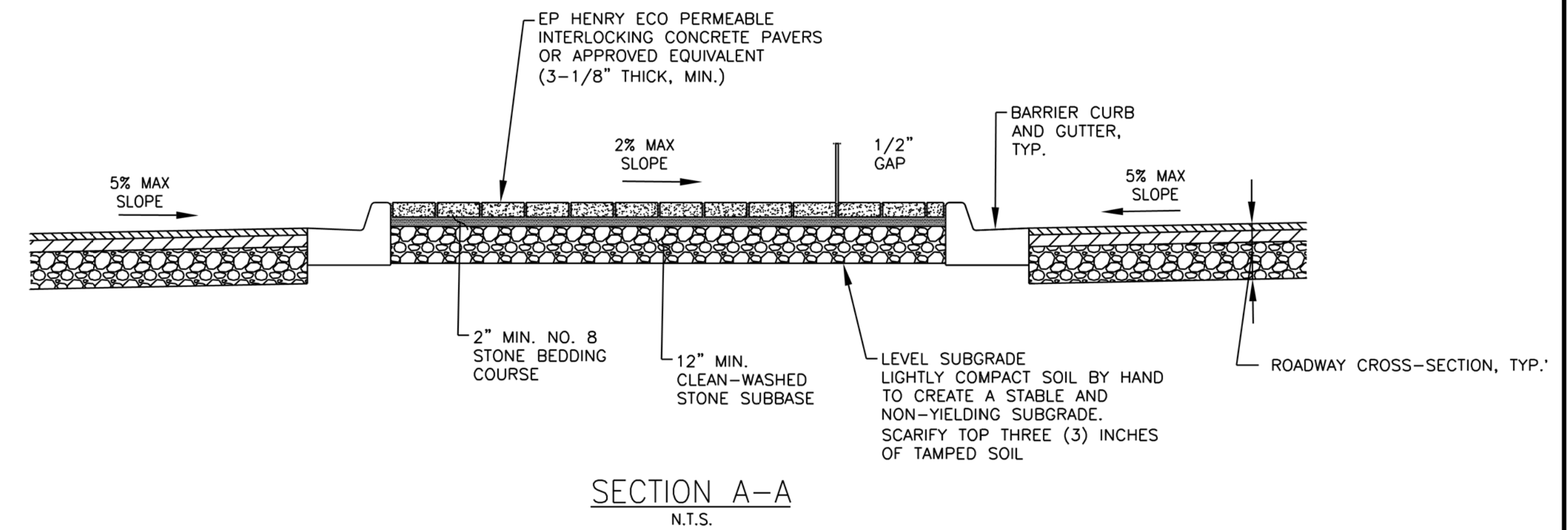


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POURED-IN-PLACE POROUS CONCRETE SIDEWALK  
 N.T.S.

- NOTES**
- JOINTS TO BE CUT IN FRESH PAVEMENT WITH A POROUS CONCRETE CUTTING TOOL ONLY. EXPANSION JOINTS TO BE PLACED EVERY 20 FEET AND AT EACH DRIVEWAY CUT.
  - TRIAL BATCHES SHALL BE PREPARED TO EVALUATE MIX CHARACTERISTICS OF THE POROUS PAVEMENT MIXTURE.
  - THE CROSS-SLOPE OF THE PAVEMENT SURFACE SHALL NOT EXCEED TWO PERCENT (2%).
  - THE LONGITUDINAL SLOPE OF THE PAVEMENT SURFACE SHALL NOT EXCEED FIVE PERCENT (5%).
  - CONCRETE SHALL BE COVERED WITH POLYETHYLENE FILM WITHIN TWENTY (20) MINUTES OF INSTALLATION AND SHALL REMAIN IN PLACE FOR SEVEN (7) FOR AT LEAST ONE (1) WEEK TO AID WITH CURING. POLYETHYLENE FILM SHALL EXTEND AT LEAST TWO (2) FEET BEYOND THE LIMITS OF THE POROUS PAVEMENT TO ALLOW FOR A TIGHT SEAL AT THE EDGES. ADJOINING PIECES OF POLYETHYLENE FILM SHALL BE JOINED WITH ADHESIVE.



PERMEABLE INTERLOCKING CONCRETE PAVERS  
 N.T.S.

SW-111



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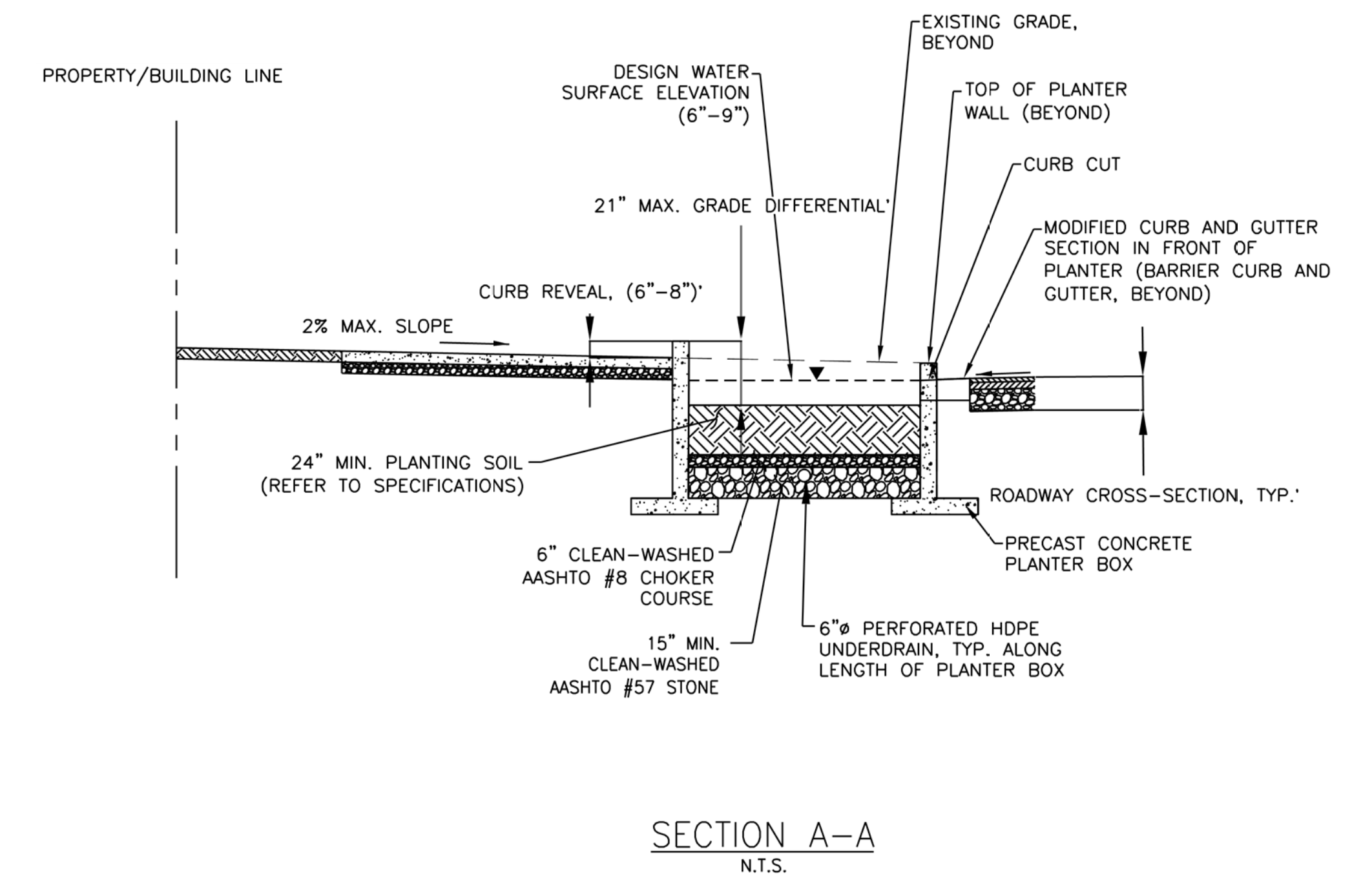
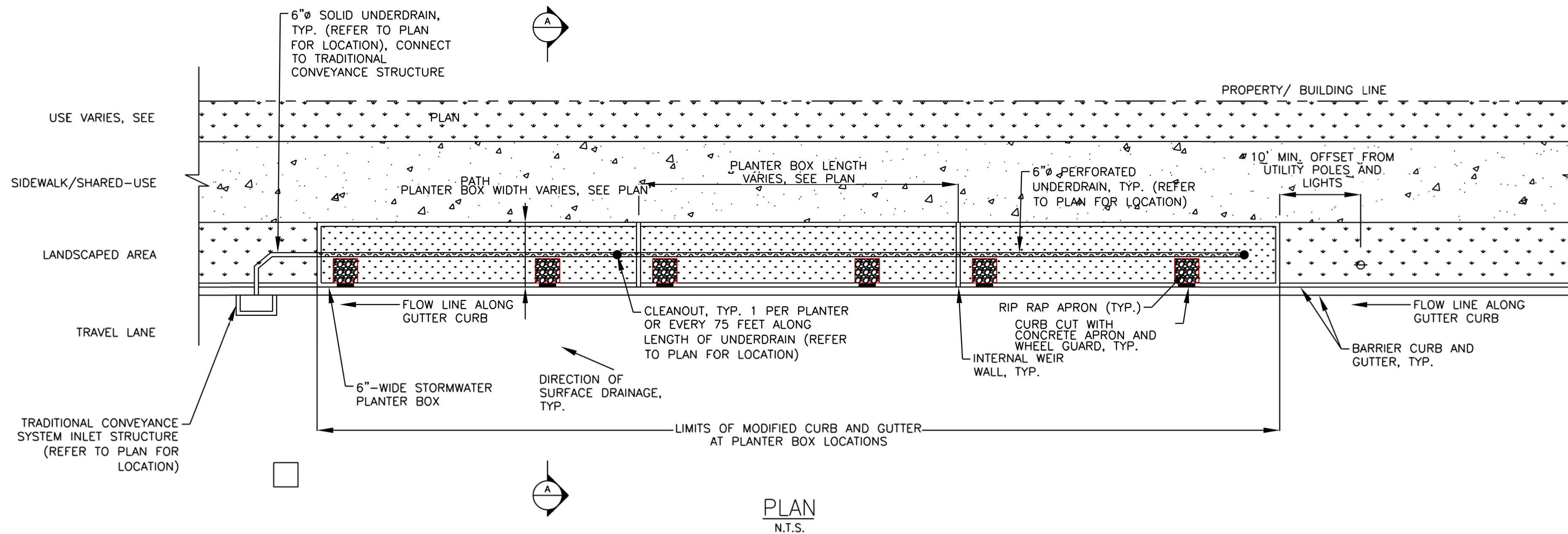
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MD 355 BUS RAPID TRANSIT (BRT)  
 DETAILS  
 STORMWATER MANAGEMENT PLAN  
 SC-113  
 SCALE : 1" = 30' DATE : DECEMBER 2022  
 Project No. 502005 SHEET 400 of 887



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- NOTES:**
1. ALL JOINTS, ADJUSTMENTS, AND CONNECTIONS SHALL BE WATERTIGHT.
  2. UNDERDRAINS SHALL BE AT LEAST SIX (6) INCHES IN DIAMETER AND CONSTRUCTED OF HIGH-DENSITY POLYETHYLENE PIPING WITH A CORRUGATED EXTERIOR AND SMOOTH INNER WALL. UNDERDRAIN PIPING WITHIN THE STONE STORAGE TRENCH SHALL BE FULL-PERFORATED PIPING MEETING THE AASHTO MATERIALS SPECIFICATIONS M294 AND M252 CLASS II.

**STORMWATER PLANTER BOX**  
N.T.S.

SW-112



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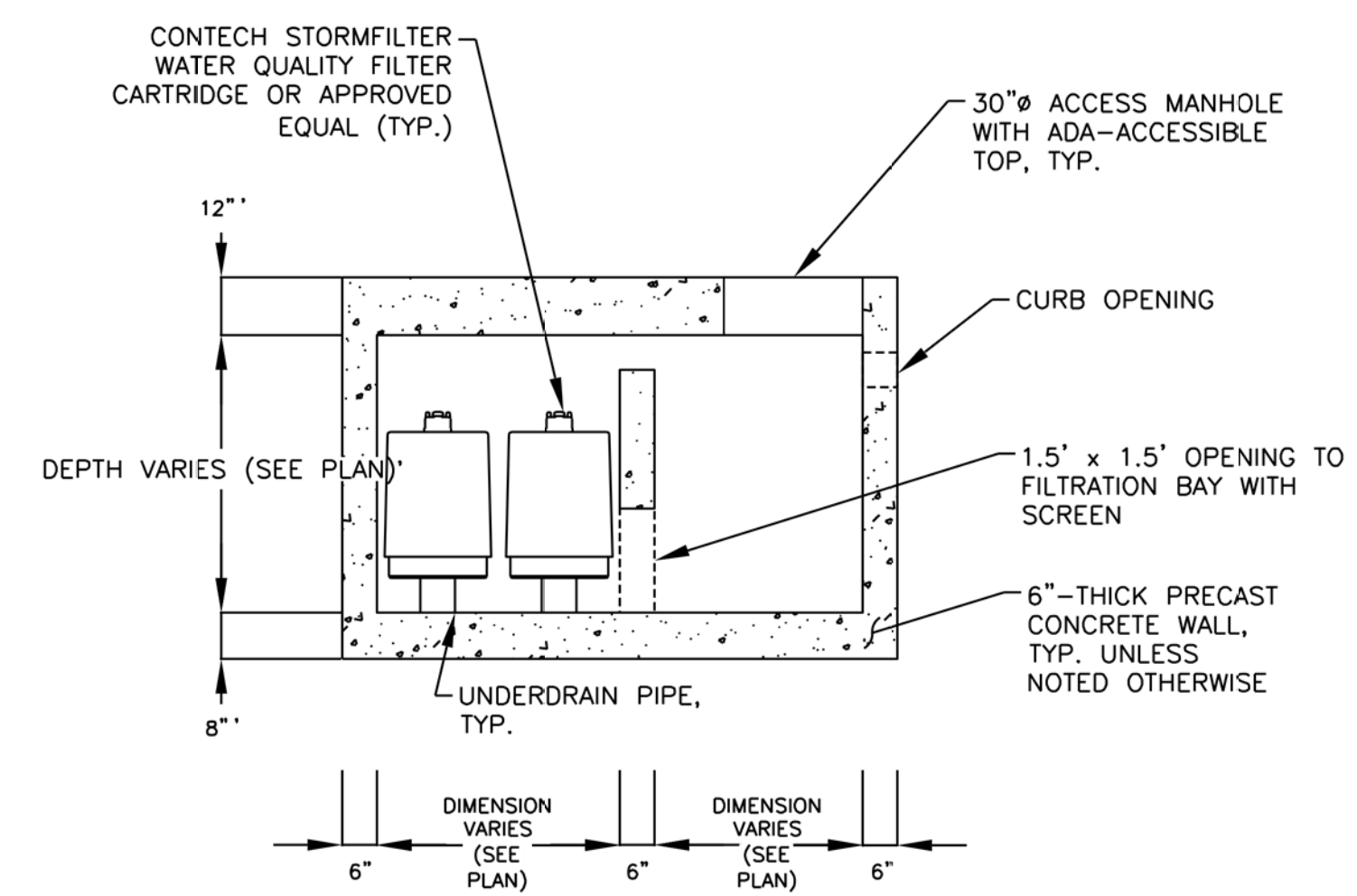
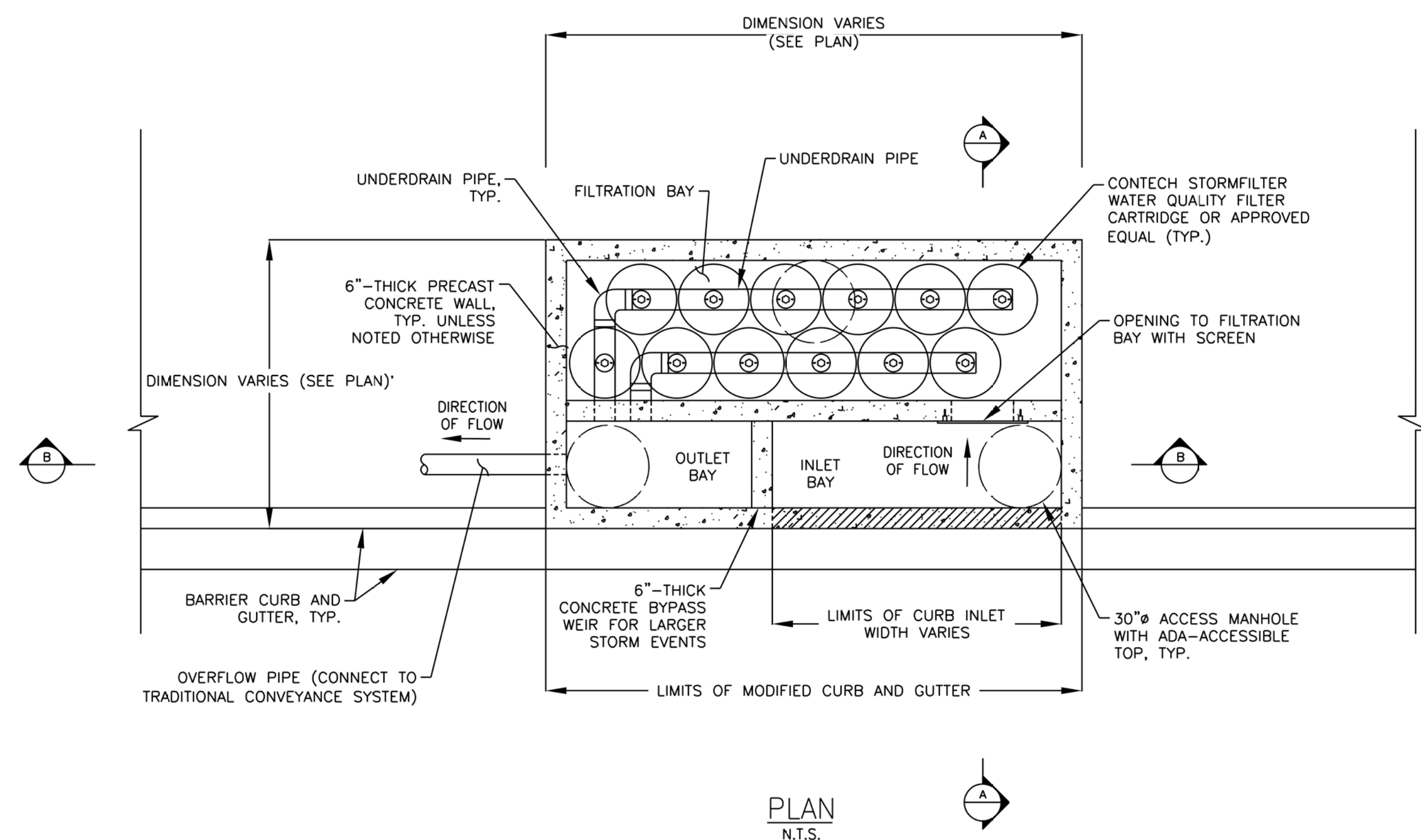
MD 355 BUS RAPID TRANSIT (BRT)  
DETAILS  
STORMWATER MANAGEMENT PLAN  
SC-114

SCALE : 1" = 30' DATE : DECEMBER 2022

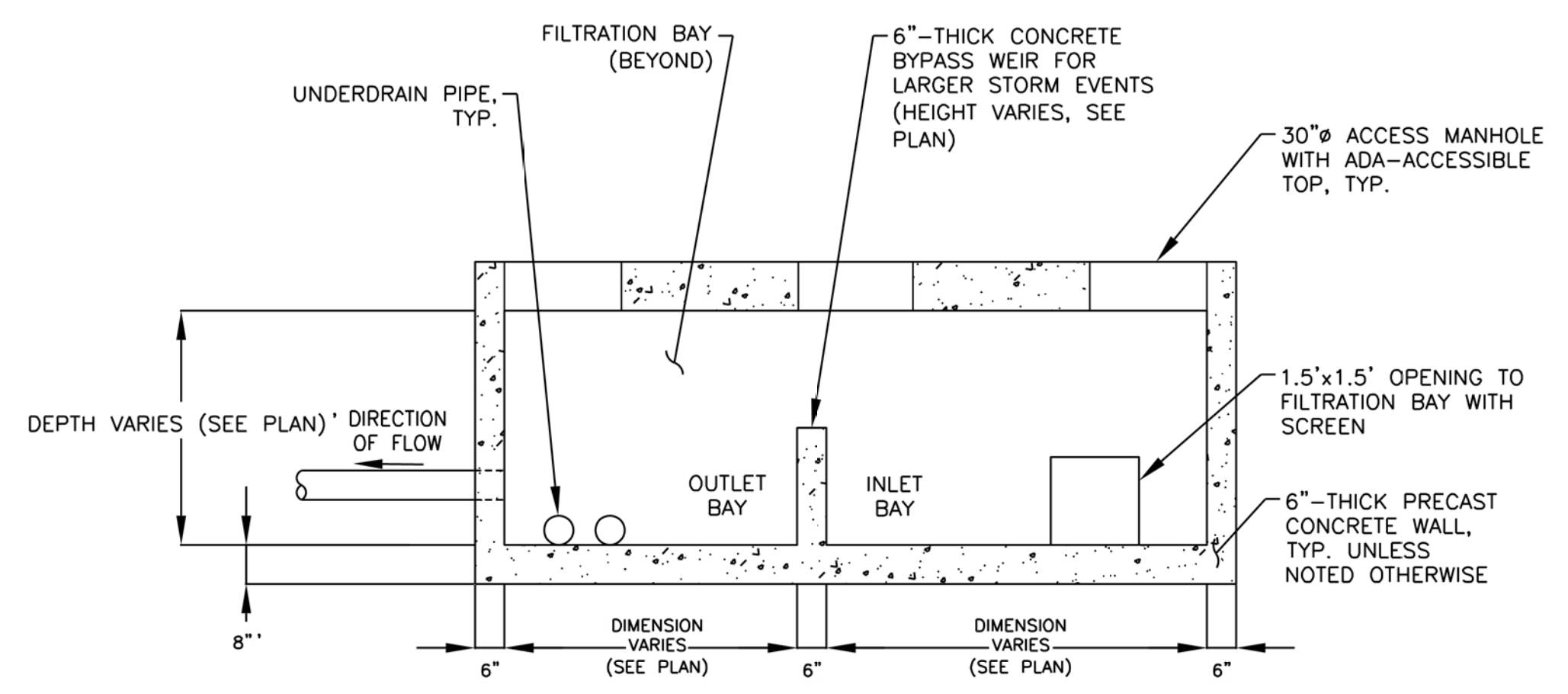
Project No. 502005 SHEET 401 of 887



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SECTION A-A  
N.T.S.



SECTION B-B  
N.T.S.

UNDERGROUND FILTER  
N.T.S.

SW-113

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION  
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GAITHERSBURG, MARYLAND

MD 355 BUS RAPID TRANSIT (BRT)  
DETAILS  
STORMWATER MANAGEMENT PLAN  
SC-115

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SCALE : 1" = 30'      DATE : DECEMBER 2022  
Project No. : 502005      SHEET 402 of 887

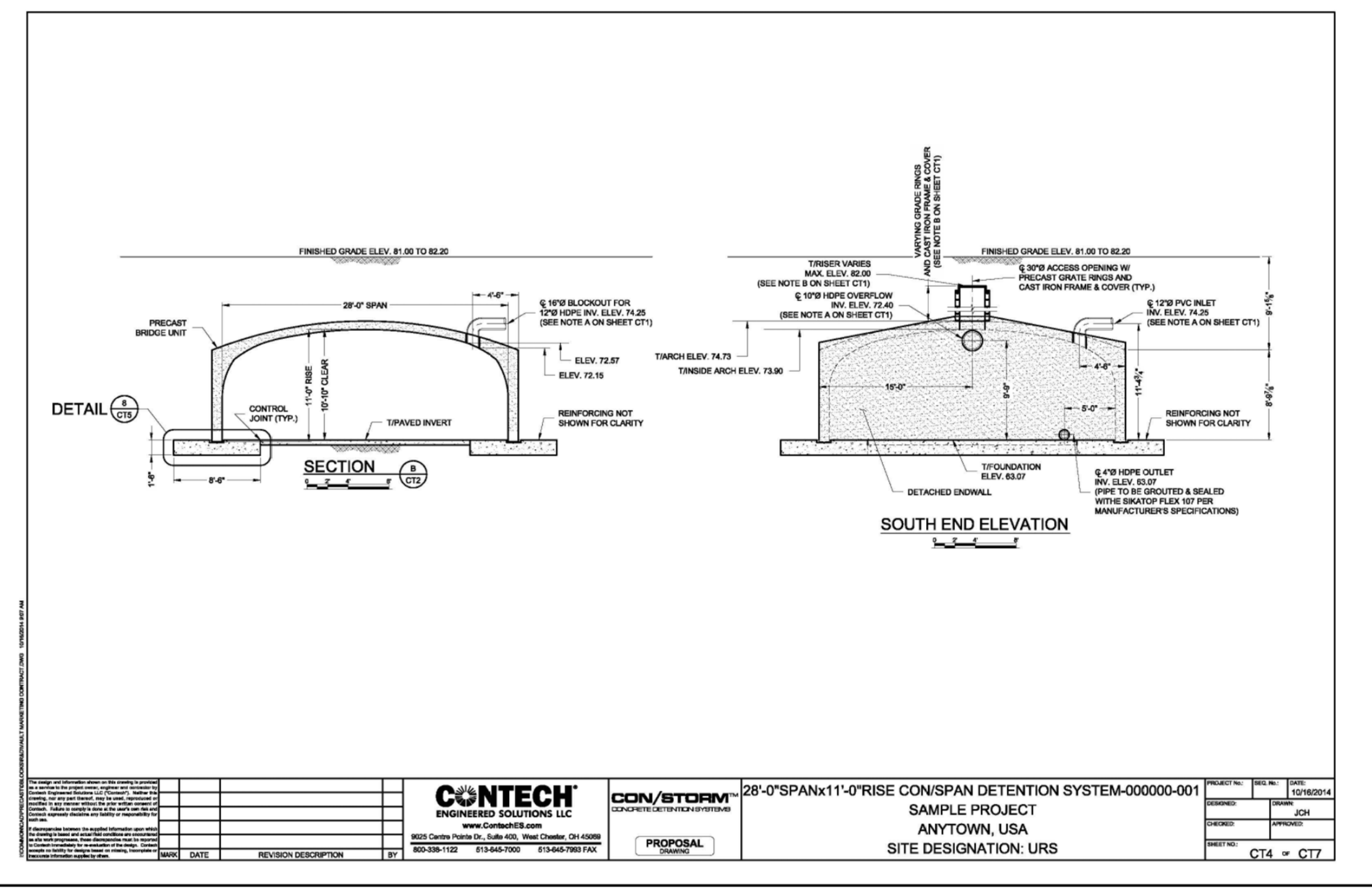
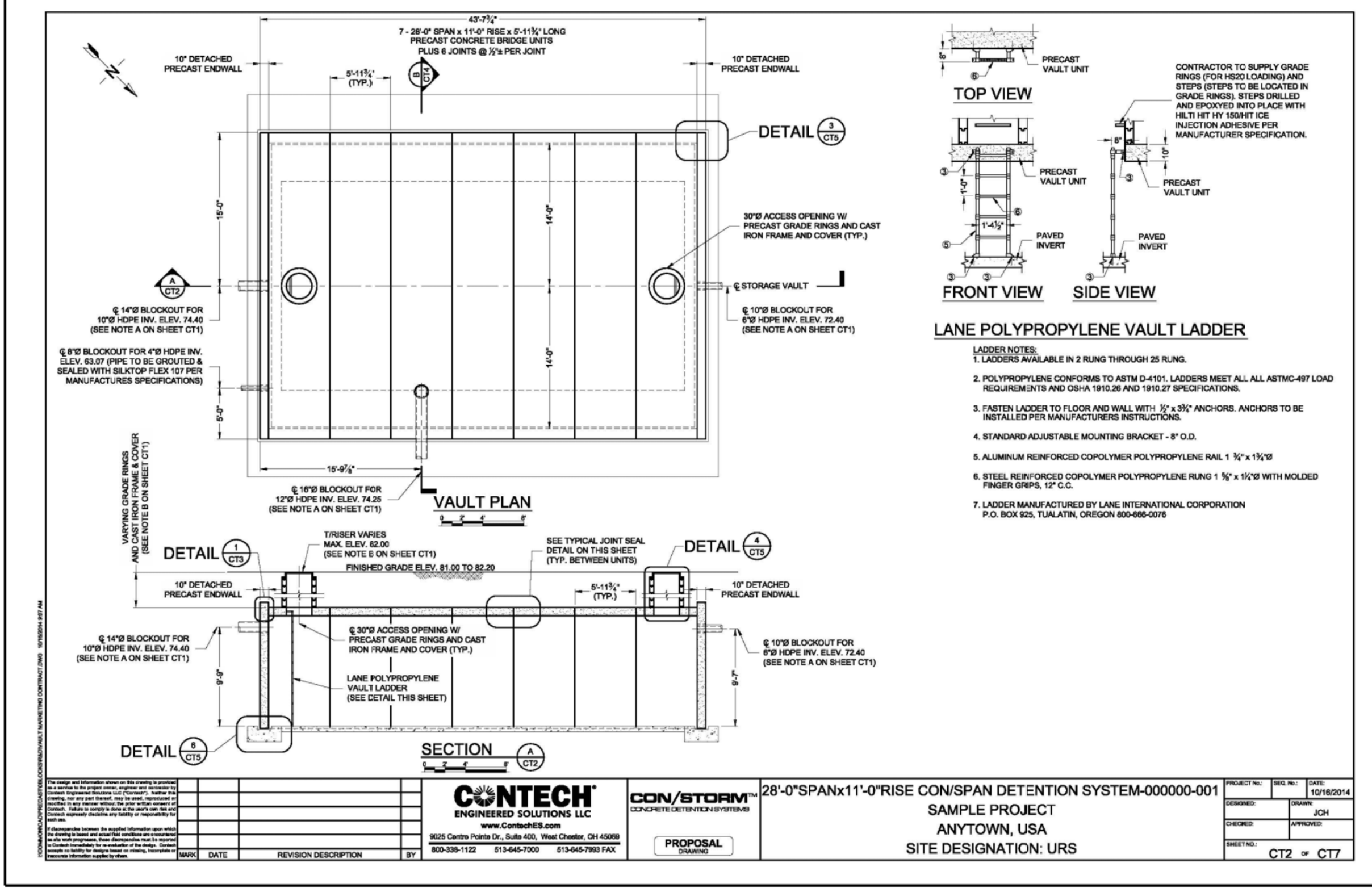
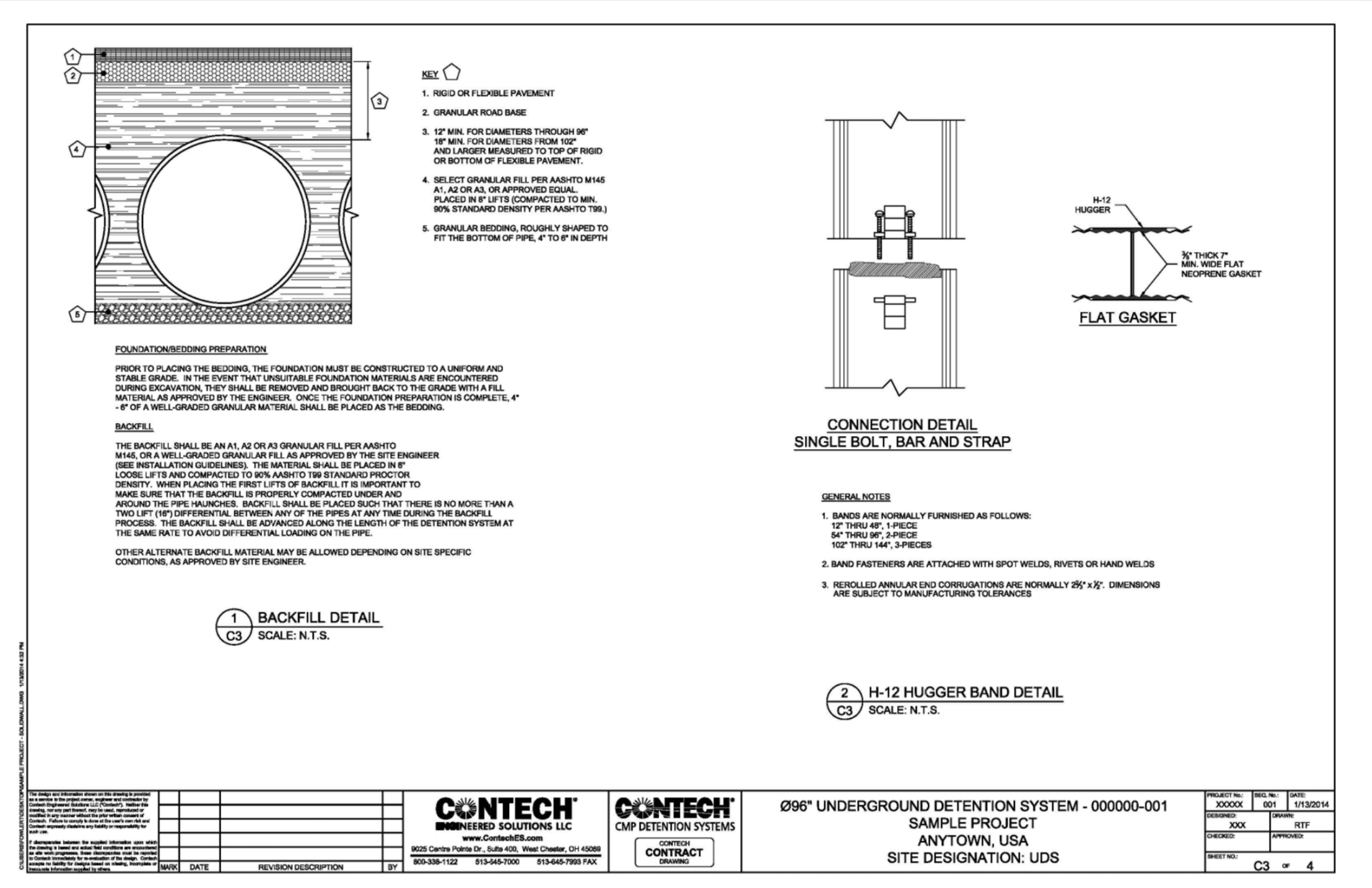
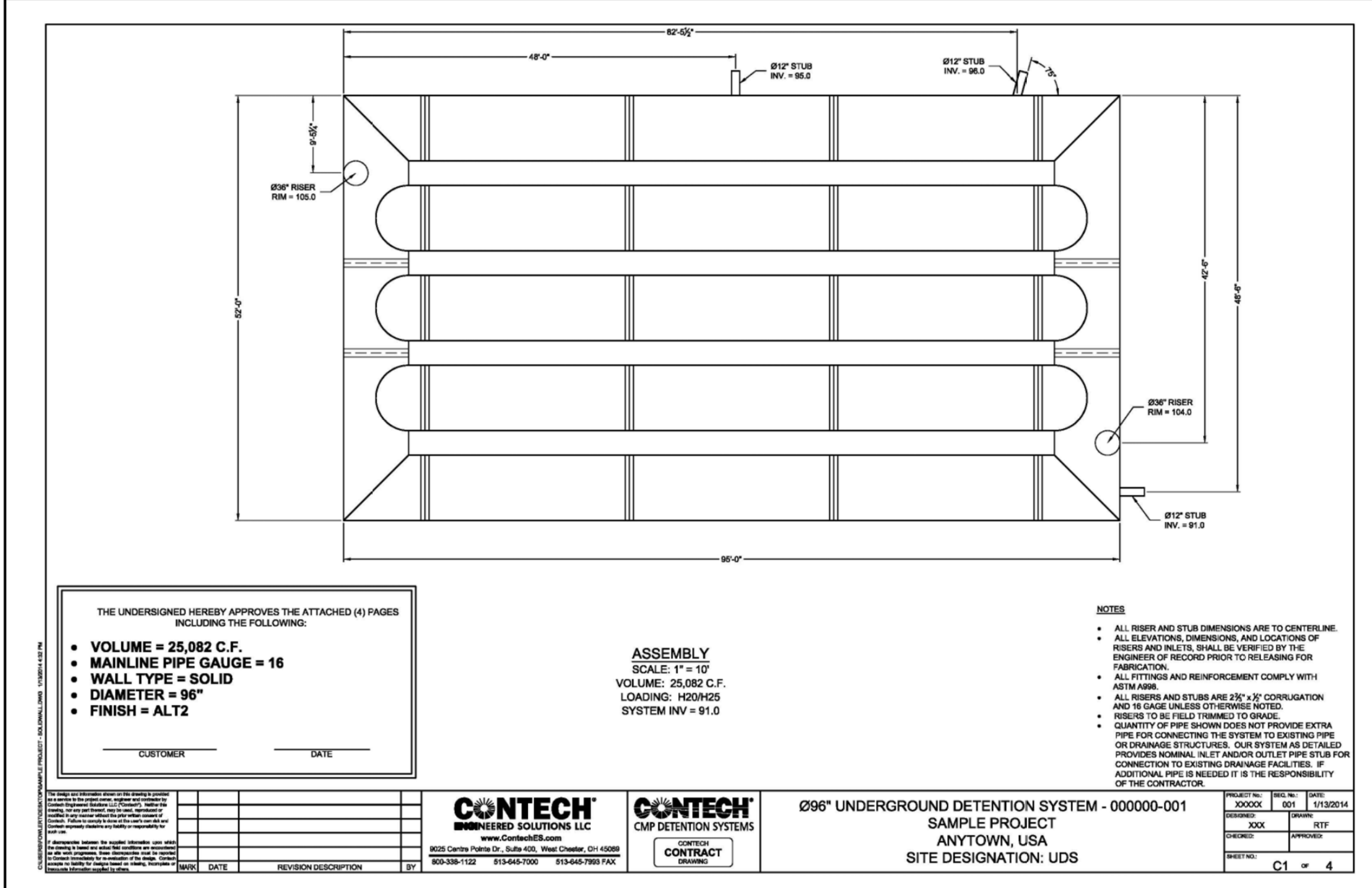


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MD 355 BUS RAPID TRANSIT (BRT)  
 DETAILS  
 STORMWATER MANAGEMENT PLAN  
 SC-116

SCALE: 1" = 30' DATE: DECEMBER 2022

Project No. 502005 SHEET 403 of 887

SWM-114



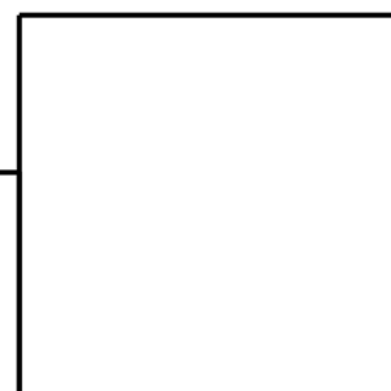
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MD 355 BUS RAPID TRANSIT (BRT)  
DETAILS  
STORMWATER MANAGEMENT PLAN  
SC-117

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. 502005 SHEET 404 of 887