

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
MD 27 SIDEWALK ADDITIONS
SE 2 (NORTH) AND PHASE 3 (SOUTH)
CIP PROJECT NO. 0501908

FILE: K:\5605.001 MCDOT MD 27 Sidewalk Addition\5. CADD\30% Submission\SHEETS\G001-G003.dwg
DATE: Sep 20, 2024 - 10:43am

ABBREVIATIONS

EXISTING FEATURES

- ASHTO — American Association of State Highway
 Transportation Officials
 ADT — Average Daily Traffic
 AHD — Ahead
 APPROX — Approximate
 ¶ or B/L — Baseline
 BK — Back/ Book
 BIT. — Bituminous
 B.C. — Bituminous Concrete
 B.M. — Bench Mark
 BOT. — Bottom
 C.C. — Center of Curve
 CAP — Corrugated Aluminum Pipe
 CAPA — Corrugated Aluminum Pipe Arch
 CATV — Cable Television
 C.B.R. — California Bearing Ratio
 ¶ or C/L — Centerline
 CL. — Class
 CLF — Chainlink Fence
 CMP — Corrugated Metal Pipe
 C.O. — Cleanout
 COMB. — Combination
 COC. — Concrete
 CONSTR. — Construction
 COR. — Corner
 CORR. — Correction
 CPP-S — Corrugated Polyethylene Pipe - Type 'S'
 CSP — Corrugated Steel Pipe - Aluminized Type 2
 CSPA — Corrugated Steel Pipe Arch -
 Aluminized Type 2
 C — Cut
 DC — Degree of Curve
 D.H.V. — Design Hourly Volume
 D.I. — Drop Inlet
 DIA. — Diameter
 D.O. — Double Opening
 E — East
 E — Electric
 E — External Distance
 EA — Each
 EB — Eastbound
 ELEV — Elevation
 ES — End Section
 EX or EXIST — Existing
 FT — Feet
 F — Fill
 FL — Flowline
 F.B.D. — Flat bottom Ditch
 F.H. — Fire Hydrant
 FWD. — Forward
 G. — Gas
 G.V. — Gas Valve
 H.B. — Handbox
 HDPE — High Density Polyethylene

- | | |
|----------|--|
| HDWL | Headwall |
| HERCP | Horizontal Elliptical Reinforced Concrete Pipe |
| HP | High point |
| IN | Inch |
| I.S.T. | Inlet Sediment Trap |
| INV. | Invert |
| J.V. | Junction Box |
| K | K Inlet |
| L | Length |
| LF | Linear Feet |
| L.L | Liquid Limit |
| LP | Low Point |
| L.P. | Light Pole |
| LT. | Left |
| MAC | Macadam |
| M.C. | Moisture Content |
| MAX. | Maximum |
| M.D.D. | Maximum Dry Content |
| MOD. | Modified |
| MIN. | Minimum |
| N | North |
| NB | Northbound |
| NE | Northeast |
| N.P. | Non-Plastic |
| O.C. | On Center |
| OHE | Overhead Electric |
| O.M. | Optimum Moisture |
| PAVT. | Pavement |
| P.C. | Point of Curvature |
| P.C.C. | Point of Compound Curvature |
| P/C | Point of Crown |
| P/GE | Profile Grade Elevation |
| P.G.E. | Profile Ground Elevation |
| P.G.L. | Profile Grade Line |
| P/GL | Profile Ground Line |
| P/R | Point of Rotation |
| PI | Plasticity Index |
| PI | Point of Intersection |
| POC | Point On Curve |
| POT | Point of Tangent |
| PPWP | Polyvinyl Chloride Profile Wall Pipe |
| PROP | Proposed |
| PRC | Point of Reverse Curve |
| PT | Point |
| P.T. | Point of Tangency |
| P.V.C. | Point of Vertical Curve |
| PVC | Polyvinyl Chloride |
| P.V.I. | Point of Vertical Intersection |
| P.V.R.C. | Point of Vertical Reverse Curve |
| P.V.T. | Point of Vertical Tangency |
| R | Radius |
| R.F. | Rock Fragments |
| RT | Right |

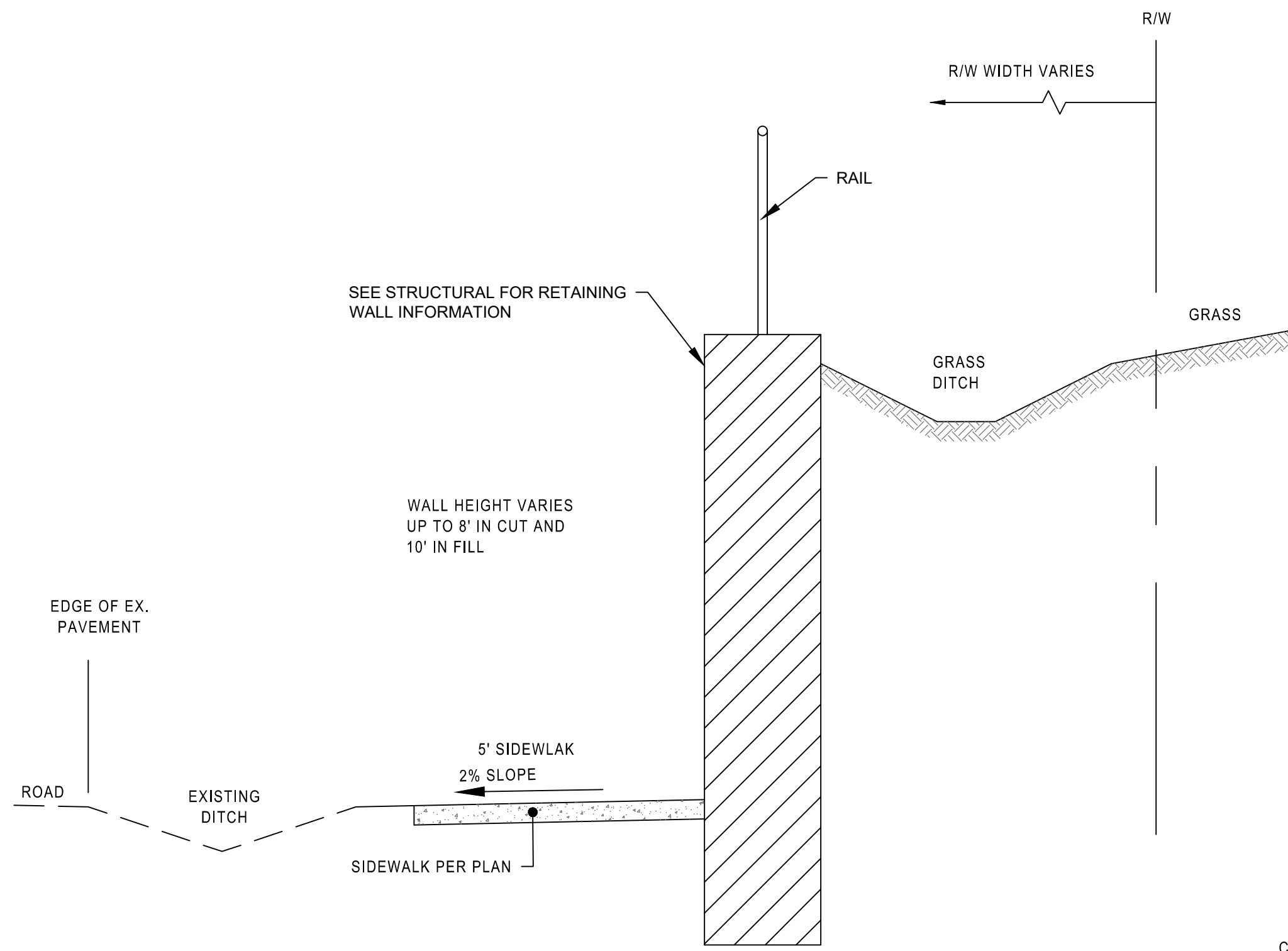
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|-----------|---|
| RW or R/W | Right of Way |
| RCP | Reinforced Concrete Pipe |
| RCCP | Reinforced Concrete Pressure |
| R.Q.D. | Rock Quality Designation |
| R.M. | Rootman |
| S | South |
| SAN. | Sanitary Sewer |
| SB or S/B | Southbound |
| SD | Storm Drain |
| S.D.D. | Surface Drain |
| S/E | Super Elevation |
| SF | Silt Fence |
| SF | Square Feet |
| SHT. | Sheet |
| SPP | Structural Steel Plate Pipe |
| SPPA | Structural Steel Plate Pipe Arch |
| S.P.T. | Standard Penetration Testing |
| SRP | Steel Spiral Rib Pipe -
Aluminized Type 2 |
| SRPA | Steel Spiral Rib Pipe Arch -
Aluminized Type 2 |
| SSD | Stopping Sight Distance |
| SSF | Super Silt Fence |
| STD. | Standard |
| STA. | Station |
| SO. | Single Opening. |
| SY | Square Yards |
| SWM | Stormwater Management |
| T | Tangent |
| T | Telephone |
| T.C. | Top of Cover |
| T.G. | Top of Grate |
| T OR TL | Traverse Line |
| T.M. | Top of Manhole |
| TRAV. | Traverse |
| TS | Temporary Swale |
| T.S. | Top of Slab |
| T.S. | Topsoil |
| TYP. | Typical |
| U.D. | Underdrain |
| U.G. | Underground |
| U.P. | Utility Pole |
| USDA | United States Department
of Agriculture |
| VCL | Vertical Clearance |
| V.C.L. | Vertical Curve Length |
| W | Water |
| W | West |
| WB | Westbound |
| WB | Wetland Buffer |
| W.M. | Water Meter |
| W.S. | Wetted Steel |
| WUS | Water of the United States |
| W.V. | Water Valve |

- | | | | |
|-------------------------------|-------|--|-------|
| RIGHT OF WAY LINE(ROW) | _____ | _____ | _____ |
| PROPERTY LINE | _____ | _____ | _____ |
| EDGE OF ROADWAY PAVING | _____ | _____ | _____ |
| CURB OR CURB AND GUTTER | _____ | _____ | _____ |
| EXISTING GROUND CONTOURS (5') | _____ | _____ 55 _____ | _____ |
| EXISTING GROUND CONTOURS (1') | _____ | _____ 54 _____ | _____ |
| WOOD FENCE | _____ | _____ □ _____ | _____ |
| WIRE FENCE | _____ | _____ X _____ X _____ | _____ |
| FIRE HYDRANT | _____ | _____  FH _____ | _____ |
| EDGE OF WOODED AREAS | _____ | _____  _____ | _____ |
| TREE (FREE STANDING) | _____ | _____  _____ | _____ |
| SIGN | _____ | _____  _____ | _____ |
| MAILBOX | _____ | _____ MAIL BOX® _____ | _____ |
| UTILITY POLE | _____ | _____  _____ | _____ |
| GAS VALVE | _____ | _____  _____ | _____ |
| WATER VALVE | _____ | _____  _____ | _____ |
| STORM DRAIN | _____ | _____ SD _____ SD _____ | _____ |
| SANITARY | _____ | _____ SS _____ SS _____ | _____ |
| WATER | _____ | _____ W _____ W _____ | _____ |
| GAS | _____ | _____ GAS _____ GAS _____ | _____ |

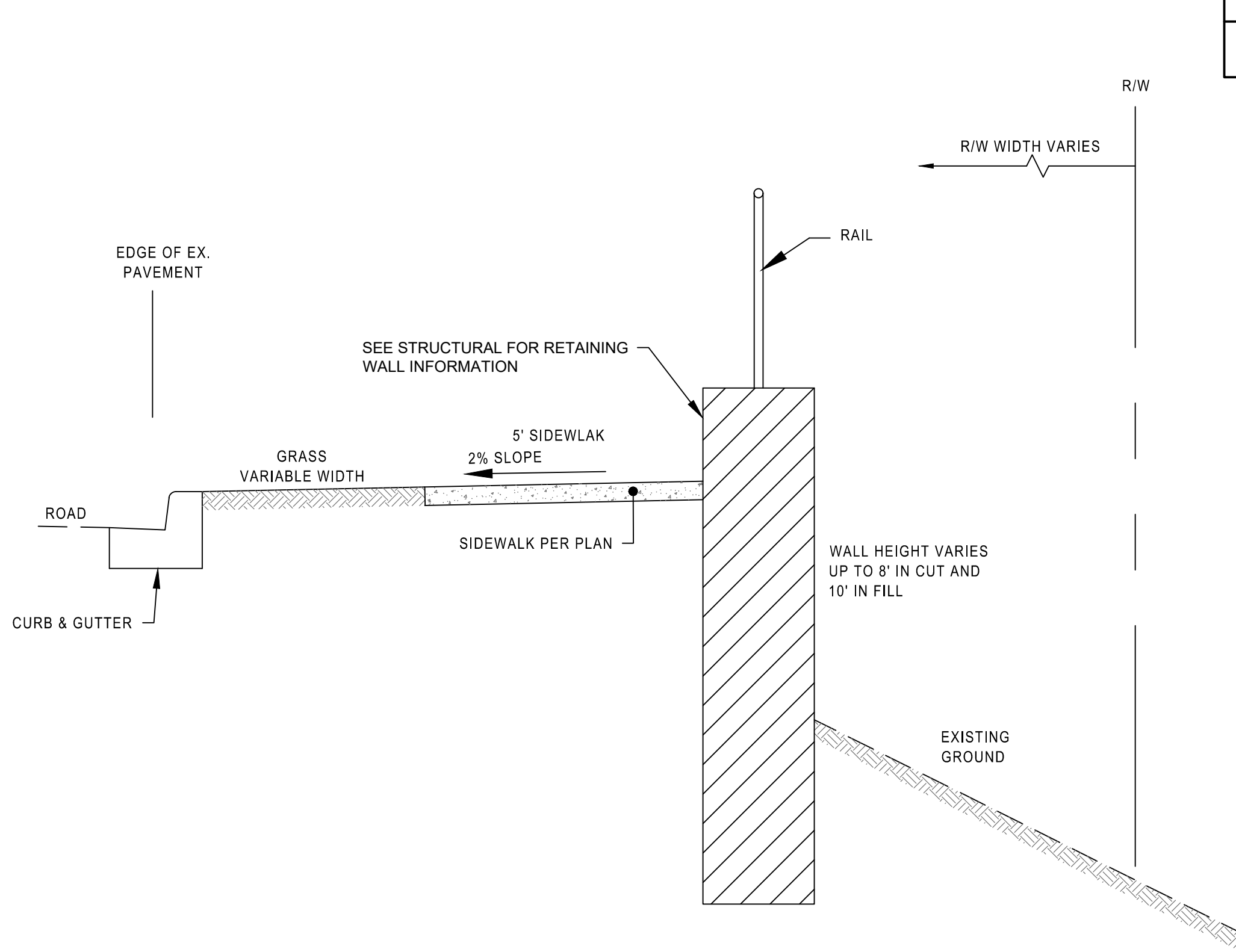
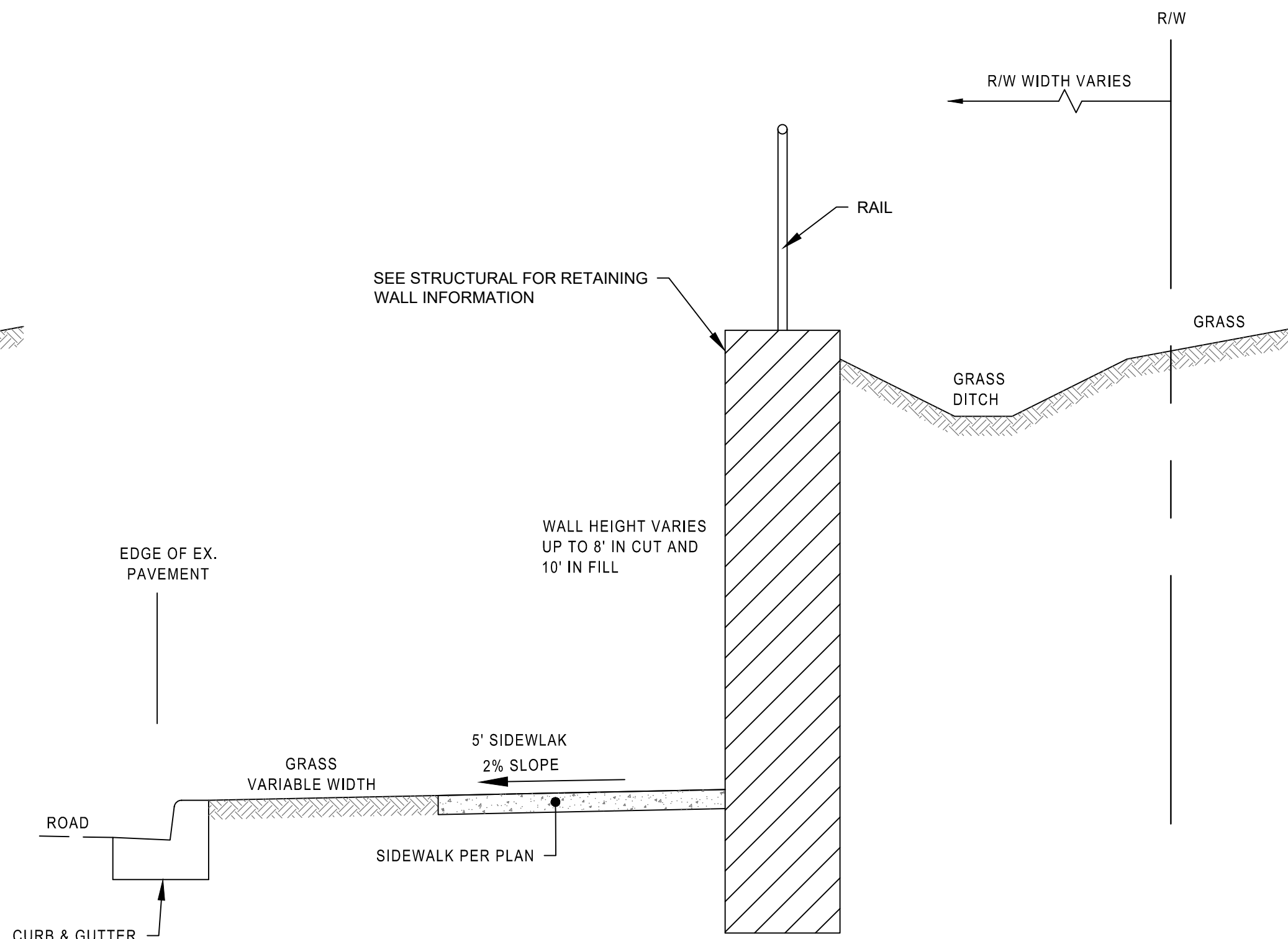
CONSTRUCTION	
CURB & GUTTER	
TRAVERSE POINT	
DRIVEWAY TIE-IN	
PAVEMENT REMOVAL	
SIDEWALK	
A.D.A. RAMP W/ DETECTABLE WARNING SURFACE	
APPROXIMATE LIMITS OF CUT AND/OR FILL	
LIMIT OF DISTURBANCE	
STORM DRAIN	

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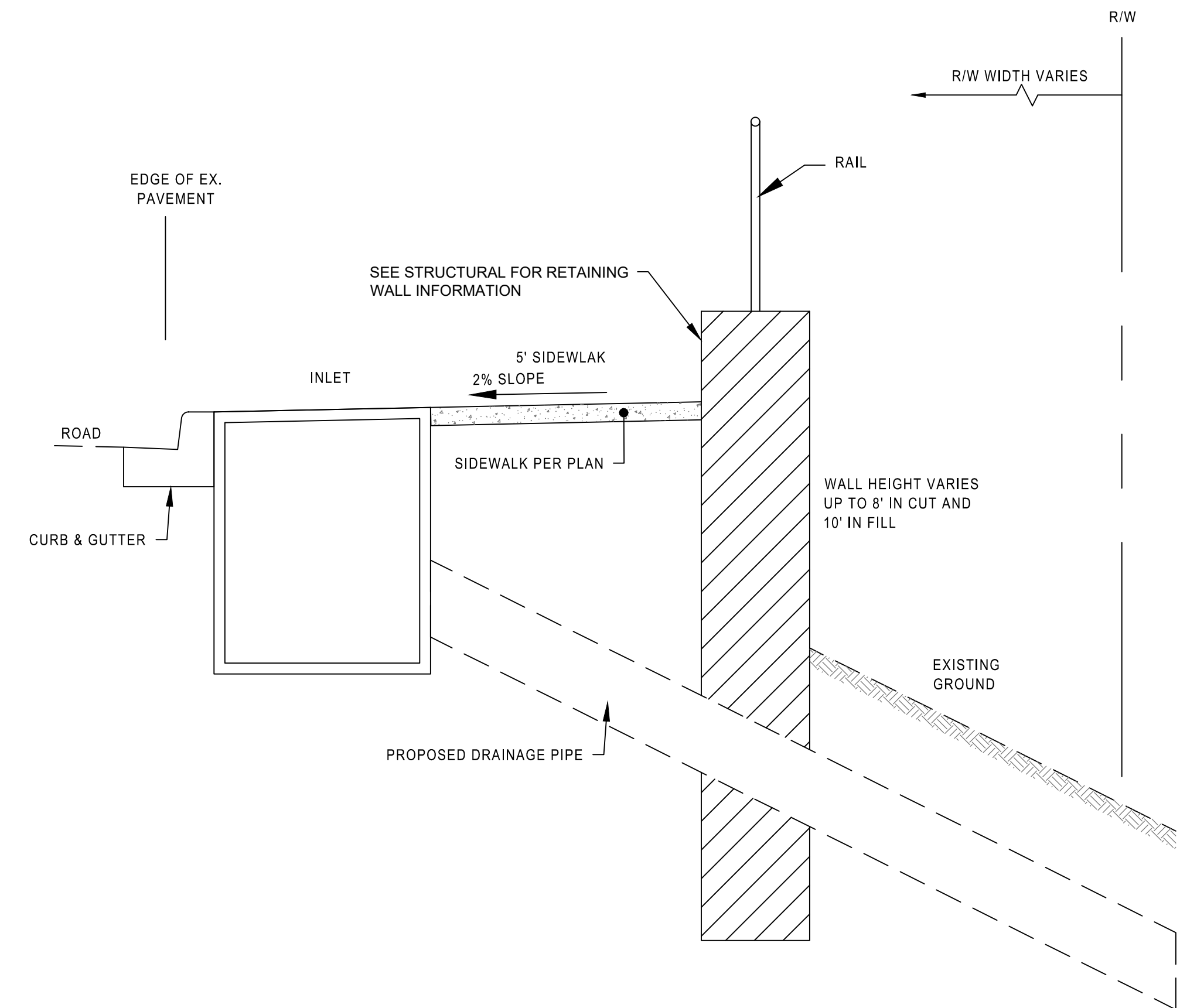
SHEET NO.	TOTAL SHEETS
03	---



SIDEWALK AND RETAINING WALL IN CUT (CONCEPT)
NTS



SIDEWALK AND RETAINING WALL IN FILL (CONCEPT)
NTS

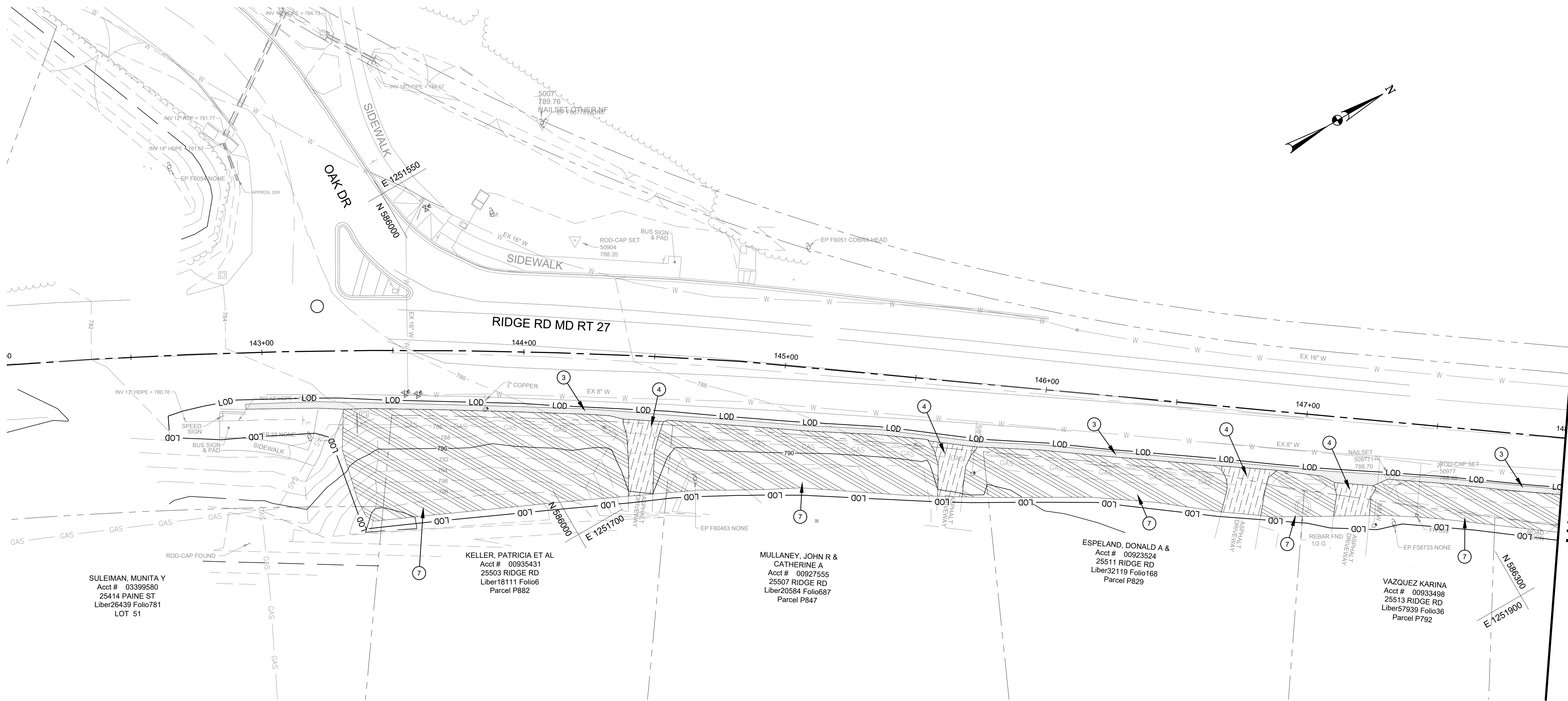


SIDEWALK AND RETAINING WALL IN FILL (CONCEPT)
NTS



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					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			MD 27 SIDEWALK ADDITIONS TYPICAL DETAILS								
					RECOMMENDED FOR APPROVAL											
					_____ Chief, Design Section APPROVED						_____ Date					
					_____ Chief, Division of Transportation Engineering						_____ Date					
NO.	REVISION	DATE	BY		Designed by: _____			Drawn by: _____			Checked by: _____					
											SCALE : AS SHOWN			G003		
											Project No. : <u>TBD</u>			<u>03</u> of <u>---</u>		

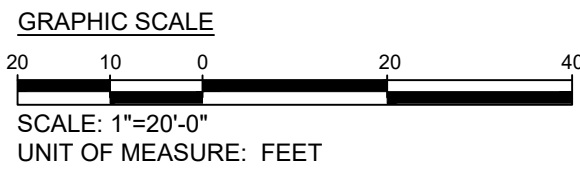


MATCH LINE STA. 148+00 - SEE DWG. C102

DEMOLITION LEGEND		
SYMBOL	DESCRIPTION	NOTES
	REMOVE EXISTING CONCRETE CURB AND GUTTER AT THE NEAREST JOINT	①
	REMOVE EXISTING ASPHALT CURB AT THE NEAREST JOINT	②
	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT	③
	SAWCUT AND REMOVE EXISTING CONCRETE/ ASPHALT PAVEMENT AS SHOWN	④
	REMOVE EXISTING GRAVEL	⑤
	SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK TO NEAREST JOINT	⑥
	CLEARING AND STRIPPING AREA	⑦
	REMOVE EXISTING FENCE AND TREE LINE	⑧
	EXISTING TREE (TO BE REMOVED)	

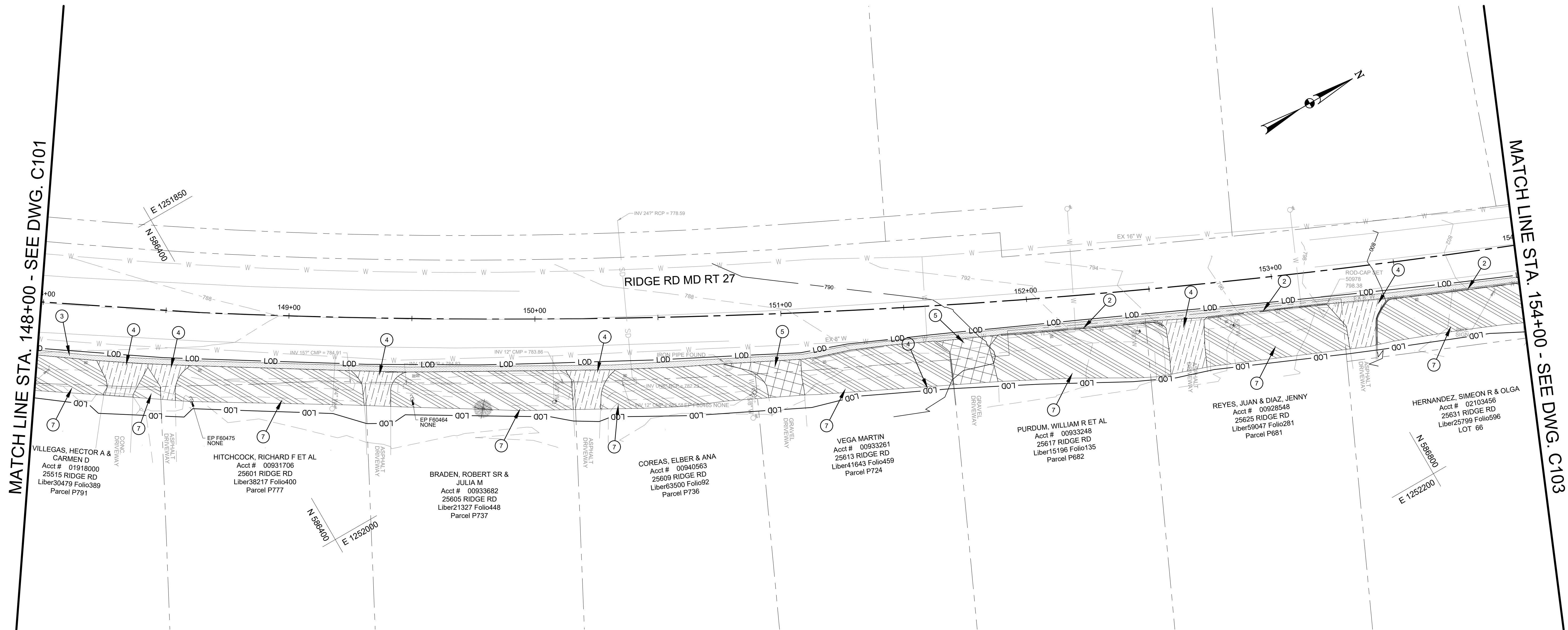
DEMOLITION NOTE:

1. MAILBOXES AND SIGNAGE TO BE REMOVED, STORED AND REINSTALLED IN BUFFER AFTER CONSTRUCTION OF SIDEWALK.



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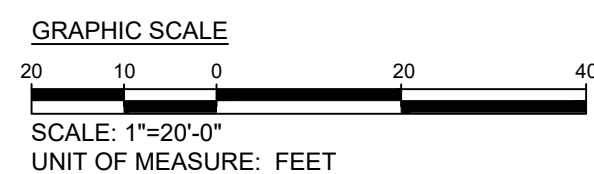
				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MD 27 SIDEWALK ADDITIONS PHASE 2 (NORTH) - EXISTING CONDITION AND DEMOLITION PLAN 1 OF 4 SCALE : AS SHOWN C101	
				RECOMMENDED FOR APPROVAL			
				Chief, Design Section		Date	
				APPROVED			
				Chief, Division of Transportation Engineering		Date	
				Designed by: _____		Drawn by: _____	
				Checked by: _____			
NO.	REVISION	DATE	BY	Project No. : TBC		04 of 74	



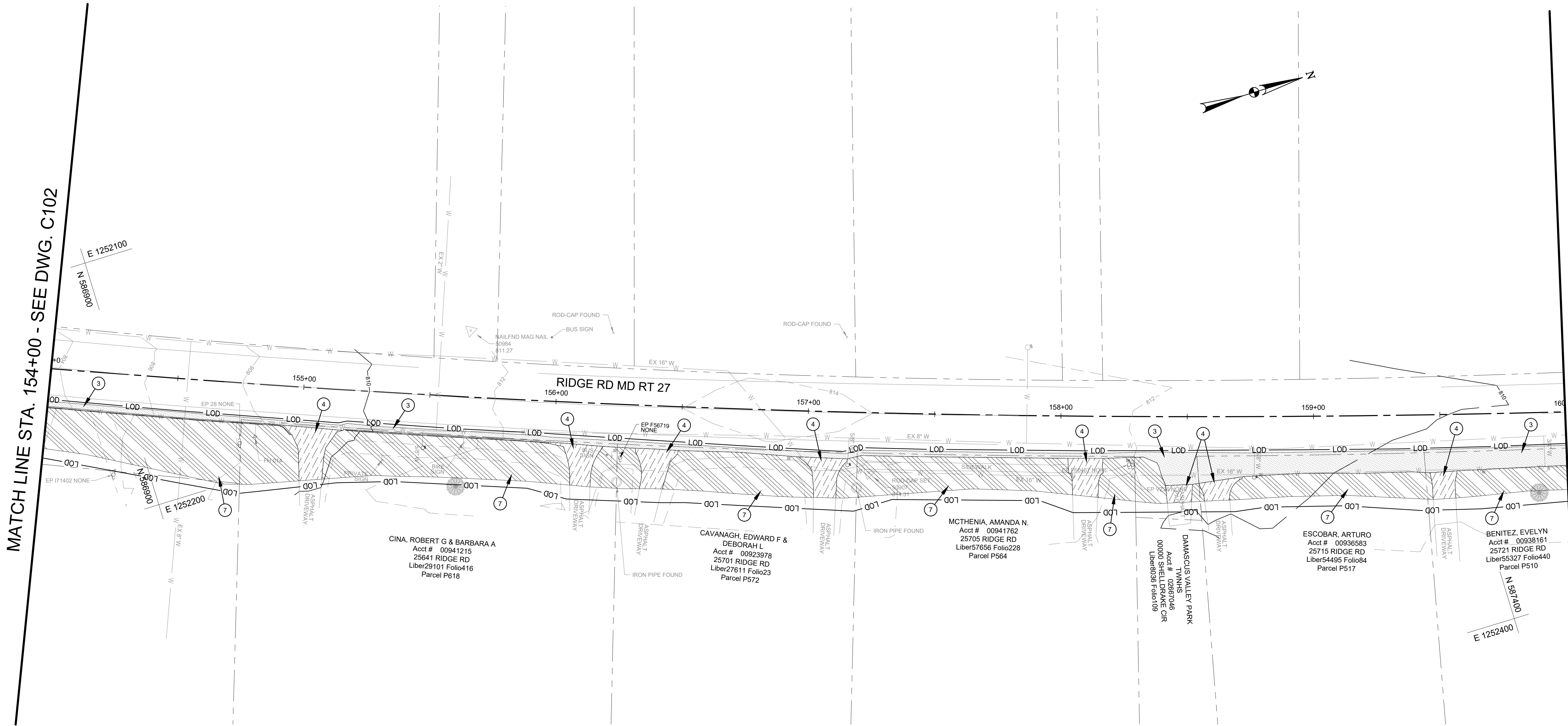
DEMOLITION LEGEND		
SYMBOL	DESCRIPTION	NOTES
	REMOVE EXISTING CONCRETE CURB AND GUTTER AT THE NEAREST JOINT	①
	REMOVE EXISTING ASPHALT CURB AT THE NEAREST JOINT	②
	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT	③
	SAWCUT AND REMOVE EXISTING CONCRETE/ ASPHALT PAVEMENT AS SHOWN	④
	REMOVE EXISTING GRAVEL	⑤
	SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK TO NEAREST JOINT	⑥
	STRIPPING AREA	⑦
	REMOVE EXISTING FENCE AND TREE LINE	⑧
	EXISTING TREE (TO BE REMOVED)	

DEMOLITION NOTE:

1. MAILBOXES AND SIGNAGE TO BE REMOVED, STORED AND REINSTALLED IN BUFFER AFTER CONSTRUCTION OF SIDEWALK.



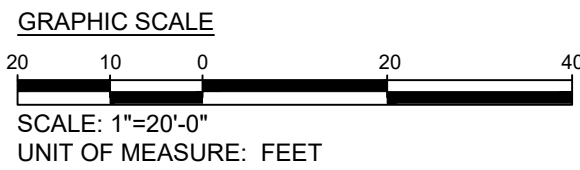
				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MD 27 SIDEWALK ADDITIONS PHASE 2 (NORTH) - EXISTING CONDITION AND DEMOLITION PLAN 2 OF 4	
				RECOMMENDED FOR APPROVAL		SCALE : AS SHOWN	
				Chief, Design Section		Date	
				APPROVED			
				Chief, Division of Transportation Engineering		Date	
				Designed by: _____		Checked by: _____	
				Drawn by: _____			
				Project No.: TBC		05 of 74	
NO.	REVISION	DATE	BY				



DEMOLITION LEGEND		
SYMBOL	DESCRIPTION	NOTES
	REMOVE EXISTING CONCRETE CURB AND GUTTER AT THE NEAREST JOINT	①
	REMOVE EXISTING ASPHALT CURB AT THE NEAREST JOINT	②
	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT	③
	SAWCUT AND REMOVE EXISTING CONCRETE/ ASPHALT PAVEMENT AS SHOWN	④
	REMOVE EXISTING GRAVEL	⑤
	SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK TO NEAREST JOINT	⑥
	STRIPPING AREA	⑦
	REMOVE EXISTING FENCE AND TREE LINE	⑧
	EXISTING TREE (TO BE REMOVED)	

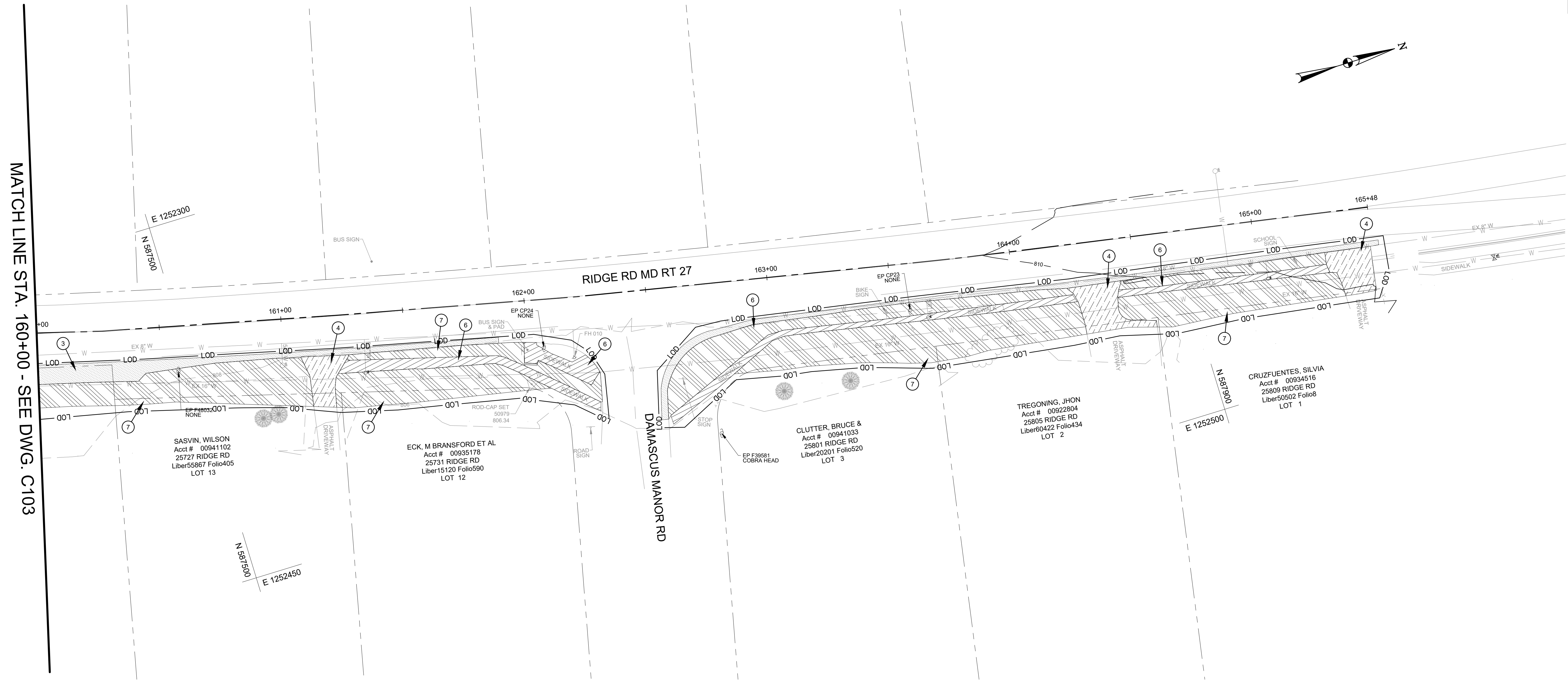
DEMOLITION NOTE:

1. MAILBOXES AND SIGNAGE TO BE REMOVED, STORED AND REINSTALLED IN BUFFER AFTER CONSTRUCTION OF SIDEWALK.



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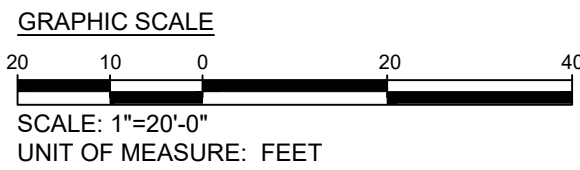
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				RECOMMENDED FOR APPROVAL			
				Chief, Design Section		Date	
				APPROVED			
				Chief, Division of Transportation Engineering		Date	
				Designed by: _____		Drawn by: _____	
				Checked by: _____			
NO.	REVISION	DATE	BY	Project No. : <u>TBC</u>		<u>06</u> of <u>74</u>	



DEMOLITION LEGEND		
SYMBOL	DESCRIPTION	NOTES
	REMOVE EXISTING CONCRETE CURB AND GUTTER AT THE NEAREST JOINT	①
	REMOVE EXISTING ASPHALT CURB AT THE NEAREST JOINT	②
	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT	③
	SAWCUT AND REMOVE EXISTING CONCRETE/ ASPHALT PAVEMENT AS SHOWN	④
	REMOVE EXISTING GRAVEL	⑤
	SAWCUT AND REMOVE EXISTING CONCRETE/ ASPHALT SIDEWALK TO NEAREST JOINT	⑥
	STRIPPING AREA	⑦
	REMOVE EXISTING FENCE AND TREE LINE	⑧
	EXISTING TREE (TO BE REMOVED)	

DEMOLITION NOTE:

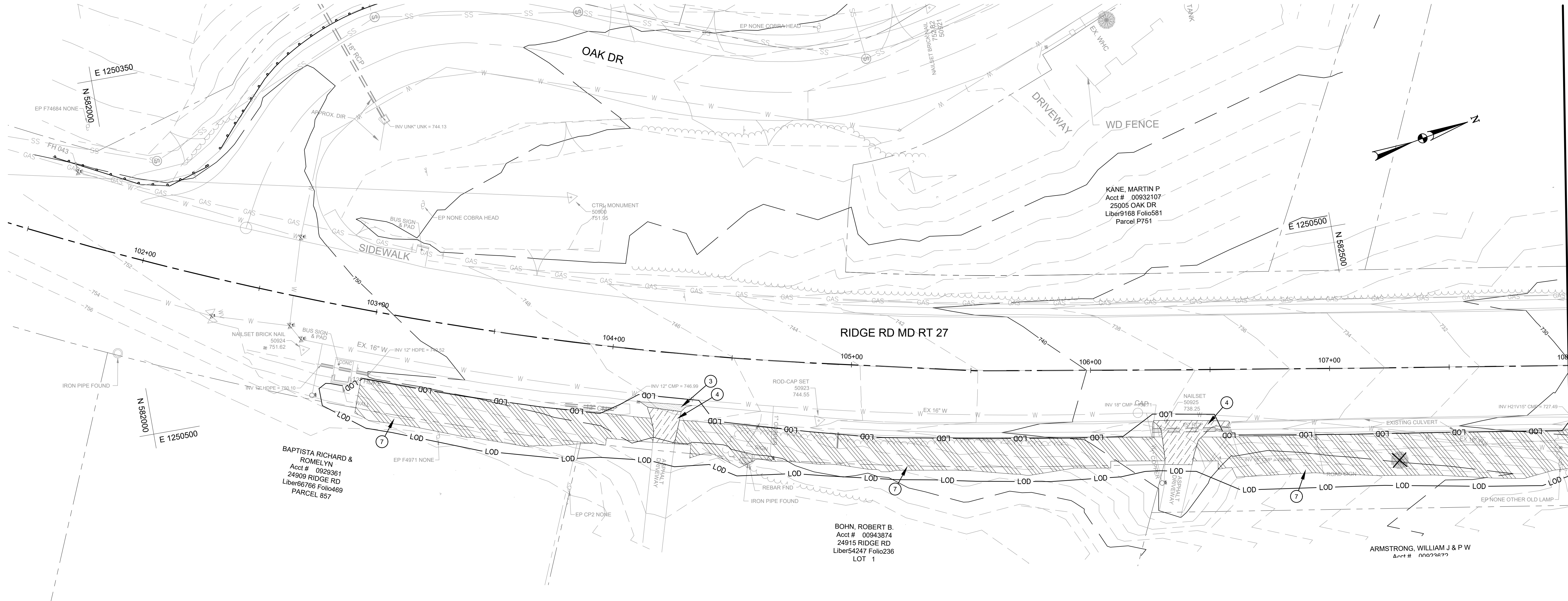
1. MAILBOXES AND SIGNAGE TO BE REMOVED, STORED AND REINSTALLED IN BUFFER AFTER CONSTRUCTION OF SIDEWALK.



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				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MD 27 SIDEWALK ADDITIONS PHASE 2 (NORTH) - EXISTING CONDITION AND DEMOLITION PLAN 4 OF 4 SCALE : AS SHOWN C104	
				RECOMMENDED FOR APPROVAL			
				Chief, Design Section		Date	
				APPROVED			
				Chief, Division of Transportation Engineering		Date	
				Designed by:		Drawn by:	
				Checked by:			
NO.	REVISION	DATE	BY			Project No.: <u>TBD</u> <u>07</u> of <u>74</u>	

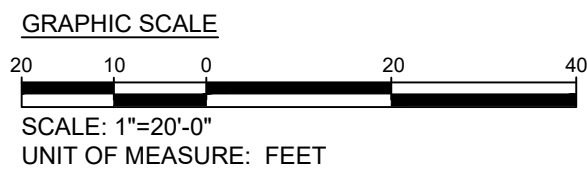
MATCH LINE STA. 108+00 - SEE DWG. C106



DEMOLITION LEGEND		
SYMBOL	DESCRIPTION	NOTES
	REMOVE EXISTING CONCRETE CURB AND GUTTER AT THE NEAREST JOINT	①
	REMOVE EXISTING ASPHALT CURB AT THE NEAREST JOINT	②
	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT	③
	SAWCUT AND REMOVE EXISTING CONCRETE/ ASPHALT PAVEMENT AS SHOWN	④
	REMOVE EXISTING GRAVEL	⑤
	SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK TO NEAREST JOINT	⑥
	CLEARING AND STRIPPING AREA	⑦
	REMOVE EXISTING FENCE AND TREE LINE	⑧
	EXISTING TREE (TO BE REMOVED)	

DEMOLITION NOTE:

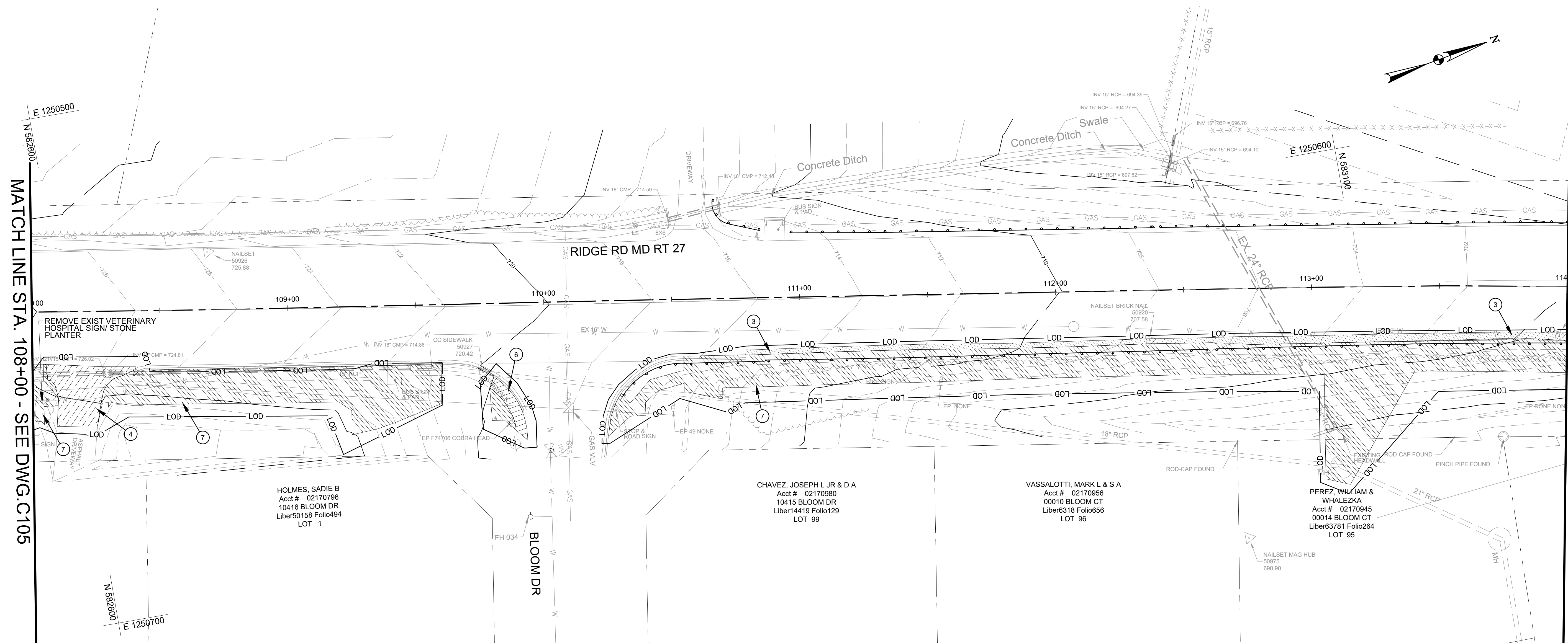
1. MAILBOXES AND SIGNAGE TO BE REMOVED, STORED AND REINSTALLED IN BUFFER AFTER CONSTRUCTION OF SIDEWALK.

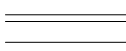
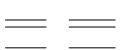
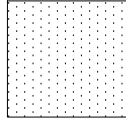
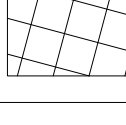
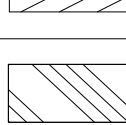
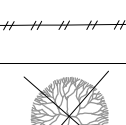
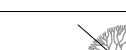


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				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MD 27 SIDEWALK ADDITIONS SOUTH SITE EXISTING CONDITIONS AND DEMOLITION PLAN SCALE : AS SHOWN 1 OF 5 C105	
				RECOMMENDED FOR APPROVAL			
				Chief, Design Section APPROVED _____ Date _____			
				Chief, Division of Transportation Engineering APPROVED _____ Date _____			
NO.	REVISION	DATE	BY	Designed by: _____ Drawn by: _____ Checked by: _____		Project No.: TBC 08 of 74	

SHEET NO.	TOTAL SHEETS
09	74



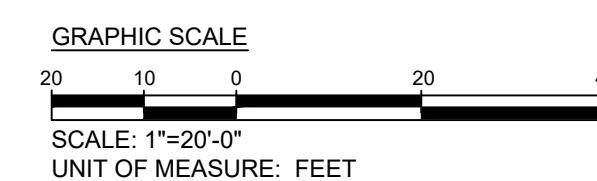
DEMOLITION LEGEND		
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	REMOVE EXISTING CONCRETE CURB AND GUTTER AT THE NEAREST JOINT	①
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	CLEARING AND STRIPPING AREA	⑦
	REMOVE EXISTING FENCE AND TREE LINE	⑧
	EXISTING TREE (TO BE REMOVED)	

DEMOLITION NOTE:

1. MAILBOXES AND SIGNAGE TO BE REMOVED, STORED AND REINSTALLED IN BUFFER AFTER CONSTRUCTION OF SIDEWALK.

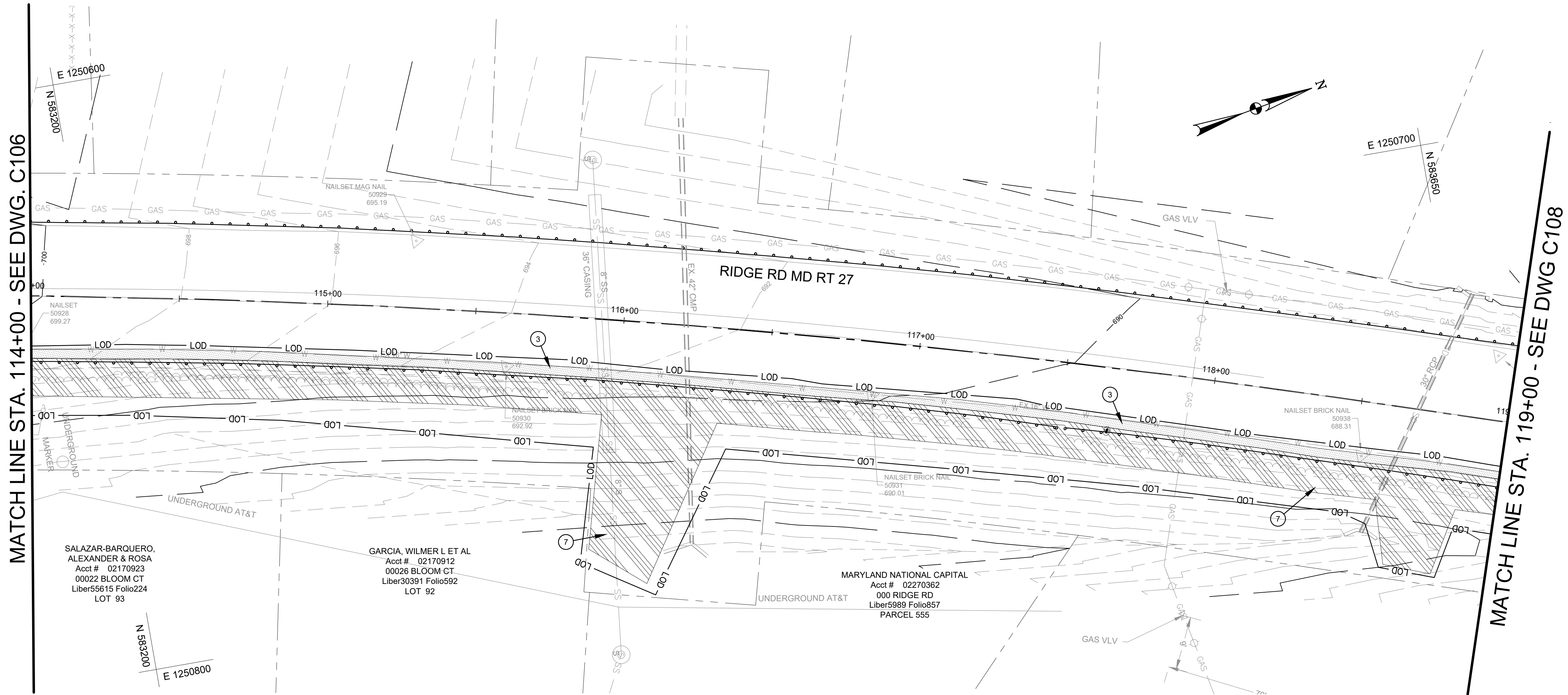
GUARD RAIL NOTES:

1. EXISTING GUARD RAIL SHALL BE REMOVED IN THE AREAS OF SIDEWALK CONSTRUCTION.
2. EXISTING GUARD RAIL SHALL BE STORED FOR REINSTALLATION AFTER CONSTRUCTION OF THE SIDEWALK/CURB & GUTTER/RETAINING WALL.



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Phone: 301-590-3939 Fax: 301-848-7174
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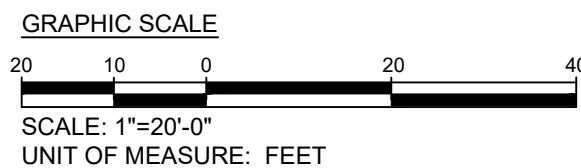
DEMOLITION LEGEND		
SYMBOL	DESCRIPTION	NOTES
	REMOVE EXISTING CONCRETE CURB AND GUTTER AT THE NEAREST JOINT	①
	REMOVE EXISTING ASPHALT CURB AT THE NEAREST JOINT	②
	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT	③
	SAWCUT AND REMOVE EXISTING CONCRETE/ ASPHALT PAVEMENT AS SHOWN	④
	REMOVE EXISTING GRAVEL	⑤
	SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK TO NEAREST JOINT	⑥
	CLEARING AND STRIPPING AREA	⑦
	REMOVE EXISTING FENCE AND TREE LINE	⑧
	EXISTING TREE (TO BE REMOVED)	

DEMOLITION NOTE:

1. MAILBOXES AND SIGNAGE TO BE REMOVED, STORED AND REINSTALLED IN BUFFER AFTER CONSTRUCTION OF SIDEWALK.

GUARD RAIL NOTES:

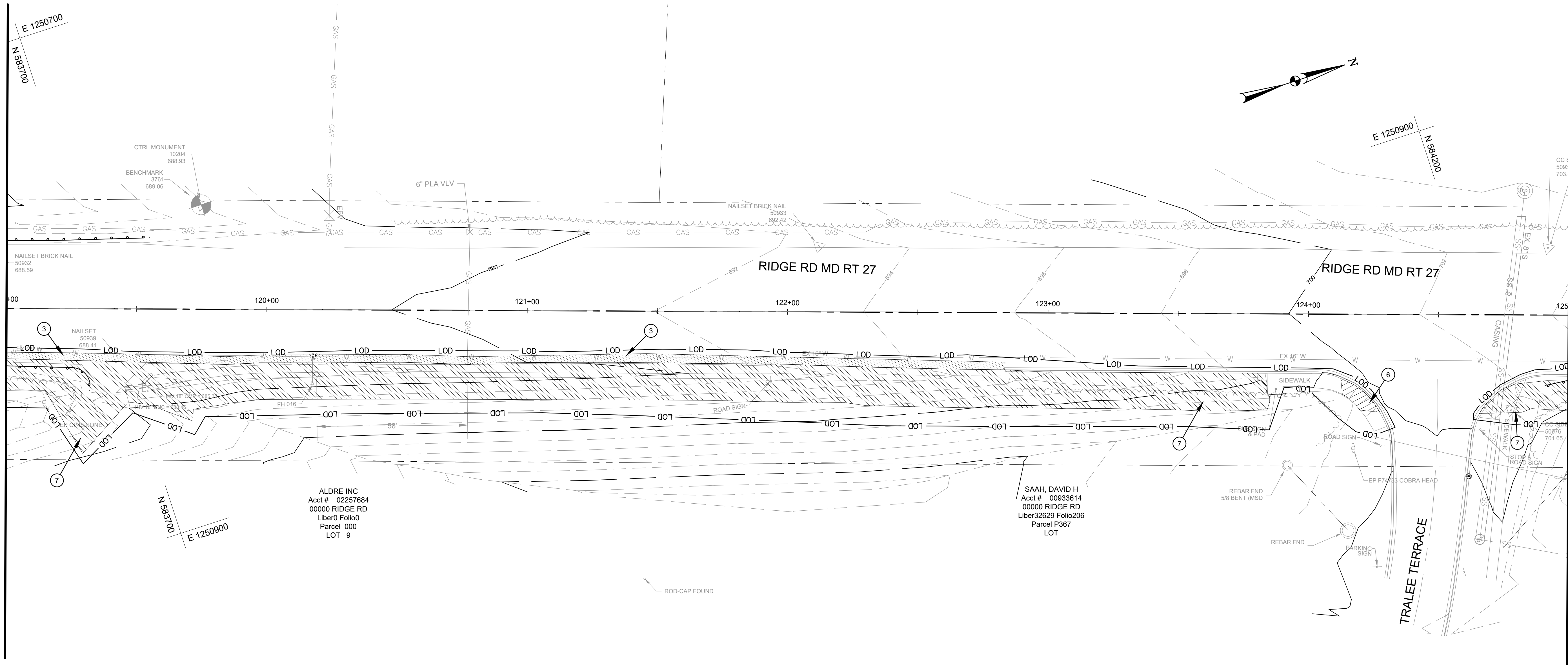
1. EXISTING GUARD RAIL SHALL BE REMOVED IN THE AREAS OF SIDEWALK CONSTRUCTION.
2. EXISTING GUARD RAIL SHALL BE STORED FOR REINSTALLATION AFTER CONSTRUCTION OF THE SIDEWALK/CURB & GUTTER/RETAINING WALL.



**Engineers, Architects
Development Consultants**
2088 Gaither Road, Rockville, MD, 20850
Phone: 301-580-3839 Fax: 301-948-7174
www.sheladia.com

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MD 27 SIDEWALK ADDITIONS SOUTH SITE EXISTING CONDITION 3 OF 5			
				RECOMMENDED FOR APPROVAL					
				Chief, Design Section APPROVED	Date				
				Chief, Division of Transportation Engineering	Date				
NO.	REVISION	DATE	BY	Designed by:	Drawn by:	Checked by:	Project No.: <u>TBD</u>		
							10 of 74		

MATCH LINE STA. 119+00 - SEE DWG. C107



MATCH LINE STA. 125+00 - SEE DWG. C109

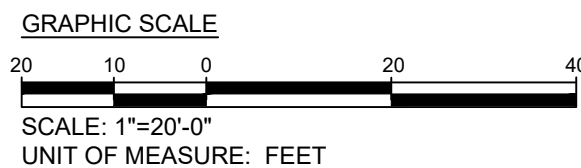
DEMOLITION LEGEND		
SYMBOL	DESCRIPTION	NOTES
	REMOVE EXISTING CONCRETE CURB AND GUTTER AT THE NEAREST JOINT	①
	REMOVE EXISTING ASPHALT CURB AT THE NEAREST JOINT	②
	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT	③
	SAWCUT AND REMOVE EXISTING CONCRETE/ ASPHALT PAVEMENT AS SHOWN	④
	REMOVE EXISTING GRAVEL	⑤
	SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK TO NEAREST JOINT	⑥
	CLEARING AND STRIPPING AREA	⑦
	REMOVE EXISTING FENCE AND TREE LINE	⑧
	EXISTING TREE (TO BE REMOVED)	

DEMOLITION NOTE:

- MAILBOXES AND SIGNAGE TO BE REMOVED, STORED AND REINSTALLED IN BUFFER AFTER CONSTRUCTION OF SIDEWALK.

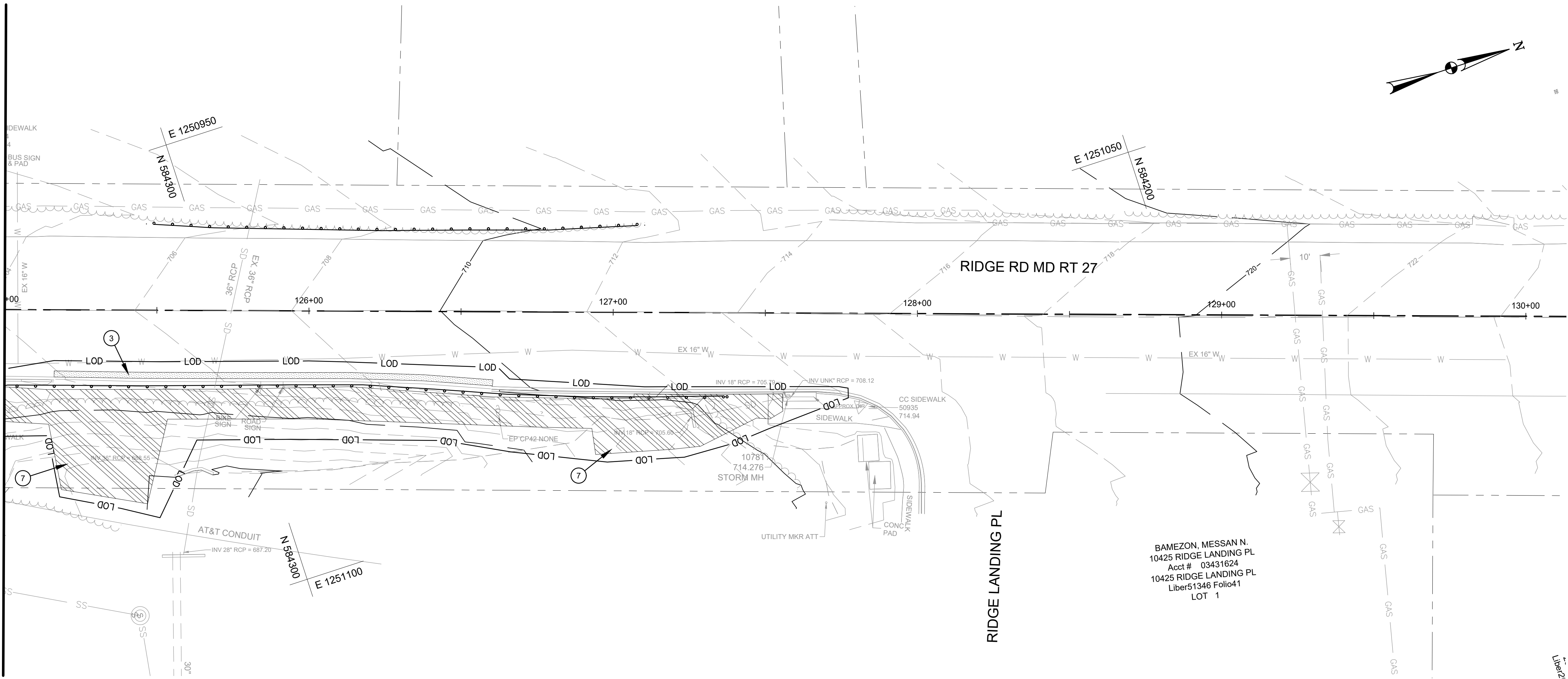
GUARD RAIL NOTES:

- EXISTING GUARD RAIL SHALL BE REMOVED IN THE AREAS OF SIDEWALK CONSTRUCTION.
- EXISTING GUARD RAIL SHALL BE STORED FOR REINSTALLATION AFTER CONSTRUCTION OF THE SIDEWALK/CURB & GUTTER/RETAINING WALL.



				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MD 27 SIDEWALK ADDITIONS SOUTH SITE EXISTING CONDITION 4 OF 5		C108
				RECOMMENDED FOR APPROVAL				
				Chief, Design Section APPROVED _____ Date _____				
				Chief, Division of Transportation Engineering APPROVED _____ Date _____				
NO.	REVISION	DATE	BY	Designed by: _____ Drawn by: _____ Checked by: _____		Project No.: TBC		11 of 74

MATCH LINE STA. 125+00 - SEE DWG. C108



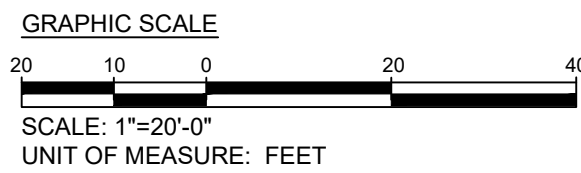
DEMOLITION LEGEND		
SYMBOL	DESCRIPTION	NOTES
	REMOVE EXISTING CONCRETE CURB AND GUTTER AT THE NEAREST JOINT	①
	REMOVE EXISTING ASPHALT CURB AT THE NEAREST JOINT	②
	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT	③
	SAWCUT AND REMOVE EXISTING CONCRETE/ ASPHALT PAVEMENT AS SHOWN	④
	REMOVE EXISTING GRAVEL	⑤
	SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK TO NEAREST JOINT	⑥
	CLEARING AND STRIPPING AREA	⑦
	REMOVE EXISTING FENCE AND TREE LINE	⑧
	EXISTING TREE (TO BE REMOVED)	

DEMOLITION NOTE:

- MAILBOXES AND SIGNAGE TO BE REMOVED, STORED AND REINSTALLED IN BUFFER AFTER CONSTRUCTION OF SIDEWALK.

GUARD RAIL NOTES:

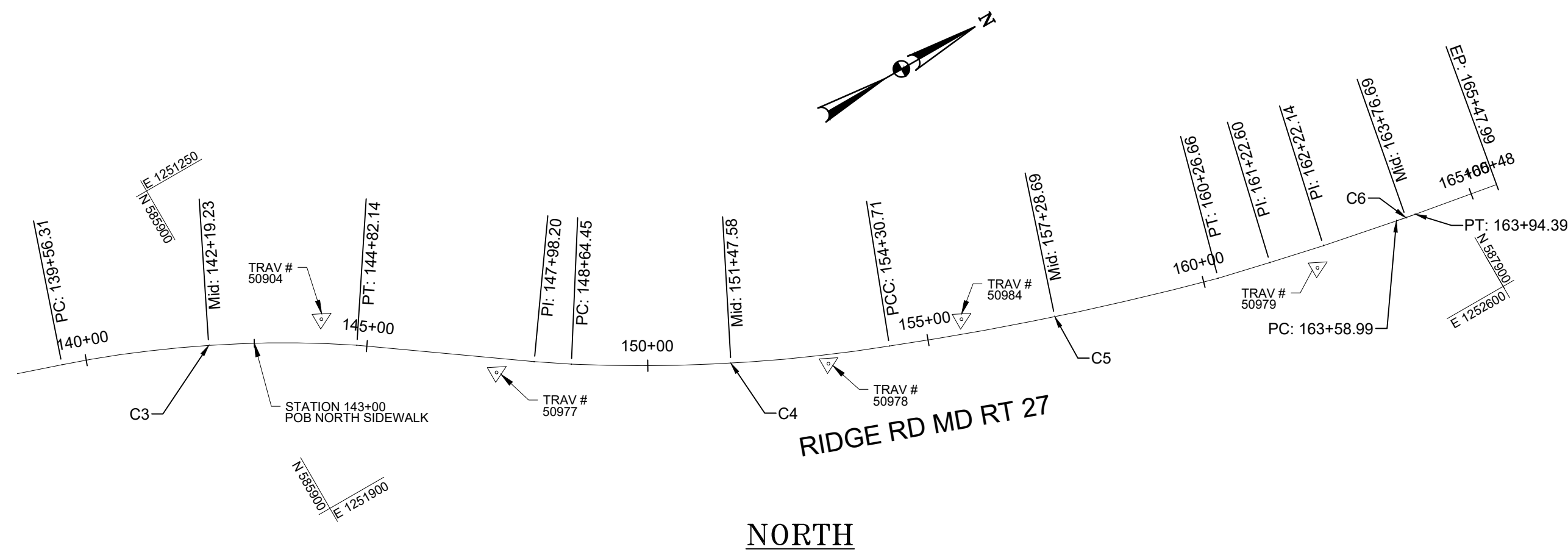
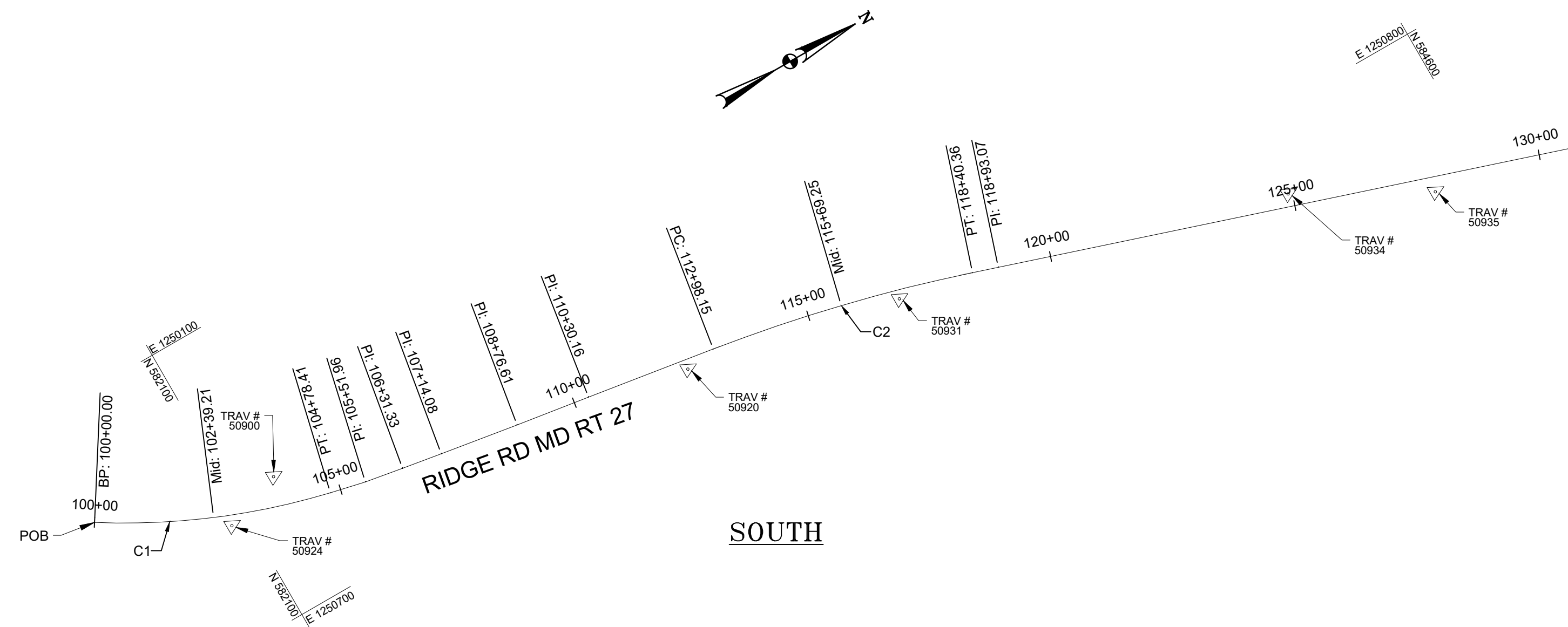
- EXISTING GUARD RAIL SHALL BE REMOVED IN THE AREAS OF SIDEWALK CONSTRUCTION.
- EXISTING GUARD RAIL SHALL BE STORED FOR REINSTALLATION AFTER CONSTRUCTION OF THE SIDEWALK/CURB & GUTTER/RETAINING WALL.



				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MD 27 SIDEWALK ADDITIONS SOUTH SITE EXISTING CONDITION 5 OF 5		C109
				RECOMMENDED FOR APPROVAL				
				Chief, Design Section APPROVED				
				Chief, Division of Transportation Engineering				
				Designed by: _____		Date: _____		Project No.: <u>TBD</u>
				Drawn by: _____		Checked by: _____		
				DATE				
				BY				
				NO.				
				REVISION				
				DATE				
				BY				

CENTER ALIGNMENT

CENTER ALIGNMENT					
CURVE NO.	DESCRIPTION	STATION	COORDINATES		BEARING
			NORTHING	EASTING	
	POB	100+00.00	581832.5438	1250332.4737	N32° 30' 46"E
C1	PC	100+00.00	581832.5438	1250332.4737	
	PI	102+39.21	582036.1946	1250462.2770	N8° 54' 22"E
	PT	104+78.41	582271.3274	1250517.3690	
C2	PC	112+98.15	583079.8837	1250651.3924	N18° 47' 23"E
	PI	115+69.25	583348.3103	1250693.4560	
	PT	118+40.36	583606.3700	1250778.4701	
C3	PC	139+56.31	585615.7101	1251441.6593	N32° 28' 07"E
	PI	142+19.23	585866.0203	1251526.8214	
	PT	144+82.14	586086.1036	1251673.3519	
C4	PC	148+64.45	586399.0376	1251892.9298	N21° 29' 52"E
	PI	151+47.58	586638.7090	1252045.4327	
	PT	154+30.71	586903.8730	1252147.3522	
C5	PC	154+30.71	586903.8730	1252147.3522	N11° 16' 21"E
	PI	157+28.69	587181.4003	1252256.6612	
	PT	160+26.66	587469.2585	1252334.8118	
C6	PC	163+58.99	587794.0605	1252404.9925	N9° 52' 34"E
	PI	163+76.69	587811.4155	1252408.4517	
	PT	163+94.39	587828.8497	1252411.4870	

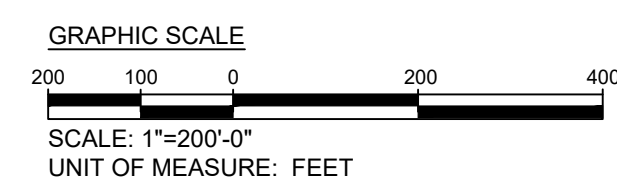


HORIZONTAL CURVE DATA

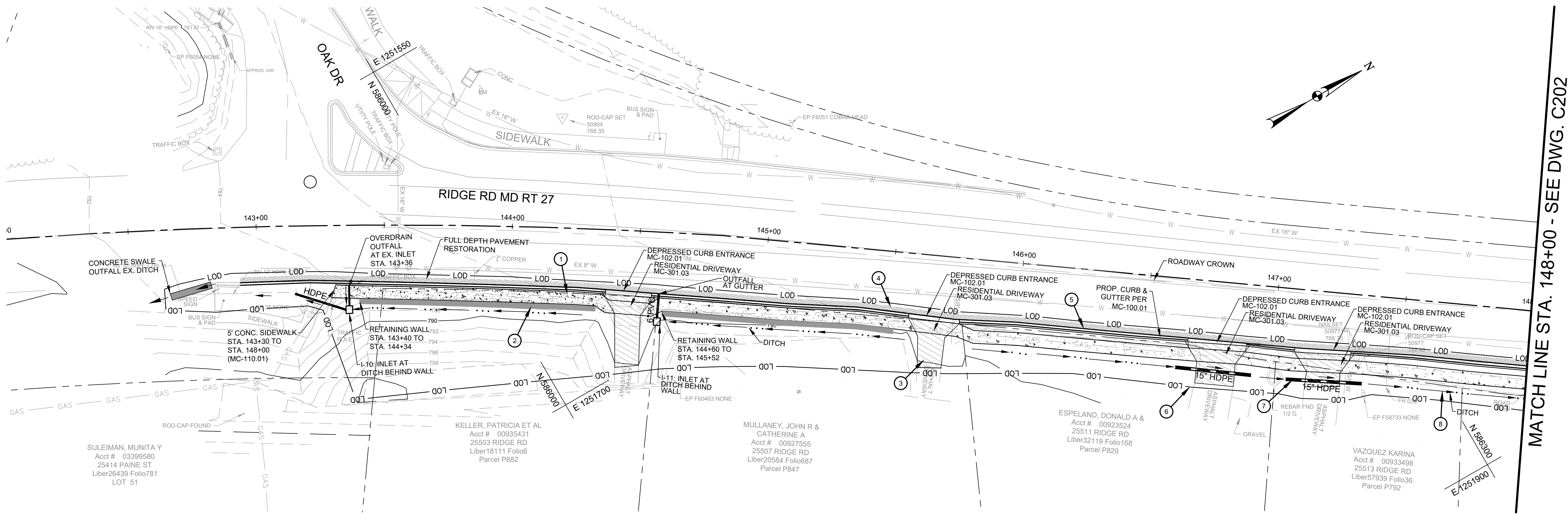
HORIZONTAL CURVE DATA					
CURVE NO.	DELTA	RADIUS	LENGTH	TANGENT	CHORD LENGTH
C1	19°19'34"	1418.35	478.41	241.50	476.15
C2	09°19'40"	3330.52	542.20	271.70	541.61
C3	14°51'57"	2026.65	525.83	264.40	524.36
C4	11°28'37"	2835.16	566.26	284.08	565.32
C5	06°18'31"	5412.42	595.95	298.28	595.65
C6	01°23'47"	1452.22	35.39	17.70	35.39

CONTROL TRAVERSE

CONTROL TRAVERSE				
TRAV#	NORTHING	EASTING	ELEVATION	DESCRIPTION
50924	582067.7722	1250476.1221	751.62	NAILSCTRL BRICK NAIL
50900	582189.1097	1250432.8029	751.95	CMONU SS ROD IN PVC SLEEVE. DAMAGED OUT OF PLUMB
50920	583015.7606	1250661.1011	707.58	NAILSCTRL BRICK NAIL
50931	583453.2956	1250750.8236	690.01	NAILSCTRL BRICK NAIL
50934	584233.2235	1250958.0761	703.44	CCSDWK CONCRETE NEW MARK
50935	584490.4797	1251102.0857	714.94	CCSDWK CONCRETE NEW MARK
50904	586055.0068	1251602.1514	788.35	RCCTRL RED DPWT
50977	586276.8706	1251839.3414	788.48	RCCTRL RED CONTROL DPWT
50978	586794.4799	1252120.3211	798.38	RCCTRL RED CONTROL DPWT
50984	587038.2847	1252170.2019	811.27	NAILFCTRL MAG NAIL
50979	587631.2254	1252407.0444	806.34	RCCTRL RED DPWT



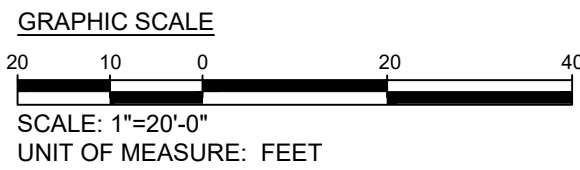
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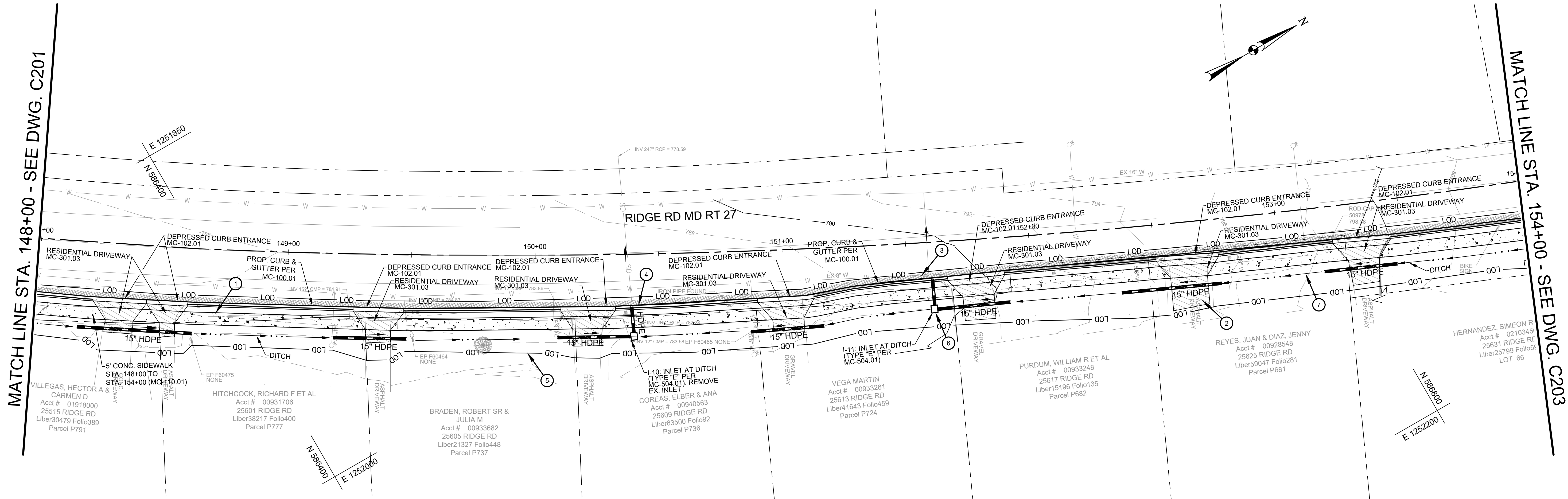
MATCH LINE STA. 148+00 - SEE DWG. C202

SIDEWALK SITE PLAN LEGEND		
	DESCRIPTION	NOTES
	PROPOSED CONCRETE SIDEWALK	①
	PROPOSED RETAINING WALL	②
	PROPOSED CONCRETE DRIVEWAY	③
	PROPOSED FULL DEPTH PAVEMENT	④
	PROPOSED CURB AND GUTTER	⑤
	LIMIT OF DISTURBANCE	⑥
	PROPOSED INLETS AND PIPE	⑦
	DRAINAGE DITCH	⑧

NOTES:
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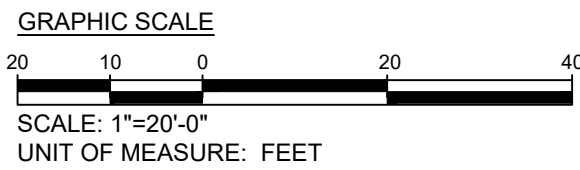
				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MD 27 SIDEWALK ADDITIONS PHASE 2 (NORTH) SIDEWALK LAYOUT 1 OF 4 SCALE : AS SHOWN C201	
				RECOMMENDED FOR APPROVAL			
				Chief, Design Section	Date		
				Chief, Division of Transportation Engineering	Date		
NO.	REVISION	DATE	BY	Designed by:	Drawn by:	Checked by:	



SIDEWALK SITE PLAN LEGEND		
	DESCRIPTION	NOTES
	PROPOSED CONCRETE SIDEWALK	①
	PROPOSED CONCRETE DRIVEWAY	②
	PROPOSED FULL DEPTH PAVEMENT	③
	PROPOSED CURB AND GUTTER	④
	LIMIT OF DISTURBANCE	⑤
	PROPOSED INLETS AND PIPE	⑥
	DRAINAGE DITCH	⑦

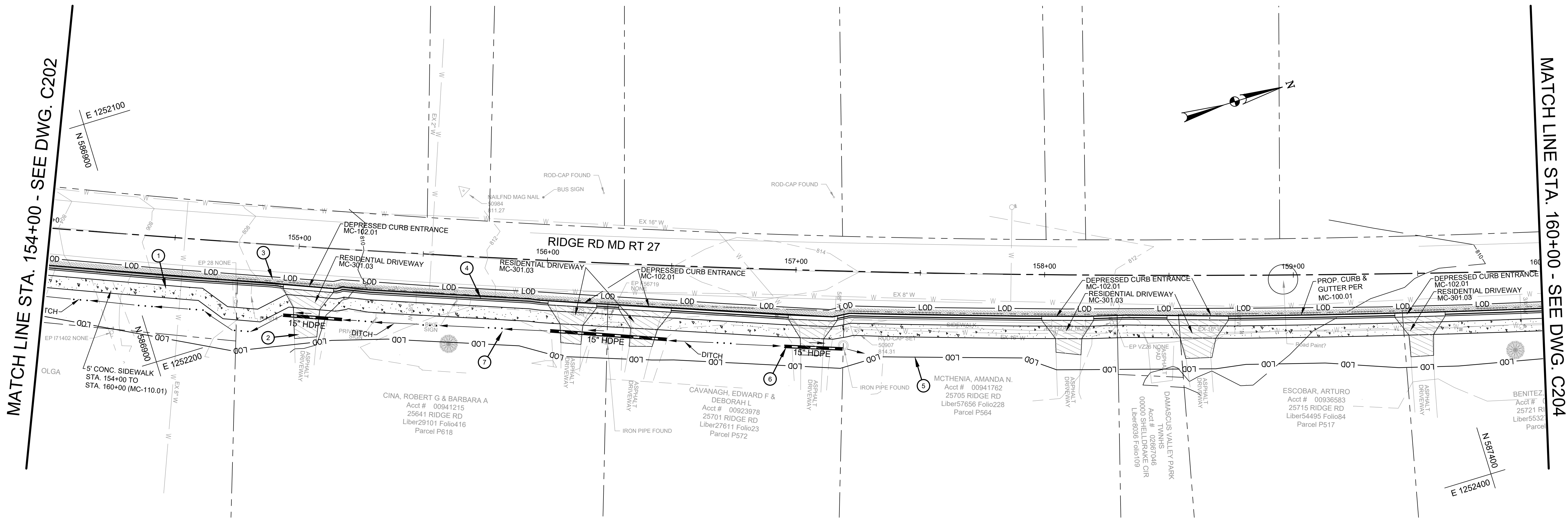
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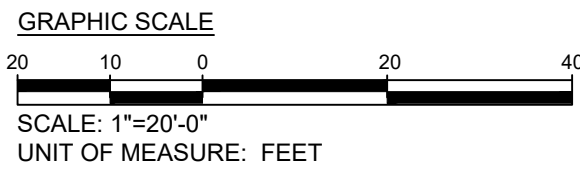
Engineers, Architects
Development Consultants
2009 Gaither Road, Rockville, MD, 20850
Phone: 301-580-3839 Fax: 301-948-7174
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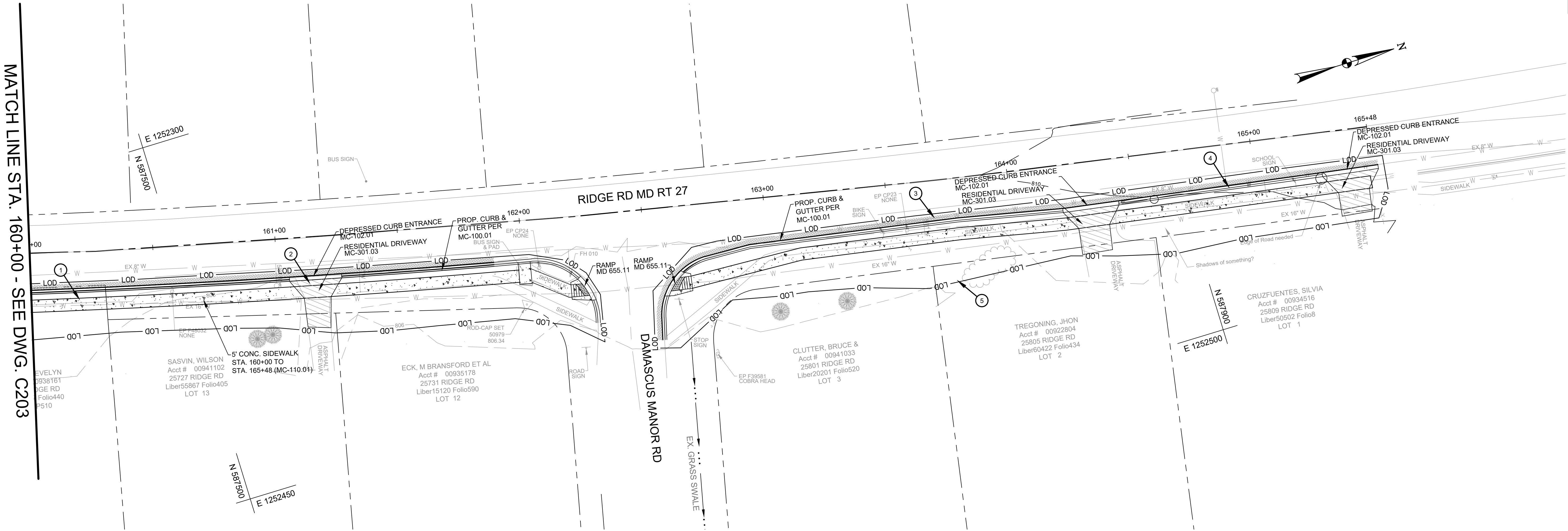
SIDEWALK SITE PLAN LEGEND		
	DESCRIPTION	NOTES
	PROPOSED CONCRETE SIDEWALK	①
	PROPOSED CONCRETE DRIVEWAY	②
	PROPOSED FULL DEPTH PAVEMENT	③
	PROPOSED CURB AND GUTTER	④
	LIMIT OF DISTURBANCE	⑤
	PROPOSED INLETS AND PIPE	⑥
	DRAINAGE DITCH	⑦

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

MD 27 SIDEWALK ADDITIONS PHASE 2 (NORTH) SIDEWALK LAYOUT 3 OF 4	
SCALE : AS SHOWN	C203
Project No. : TBC	16 of 74

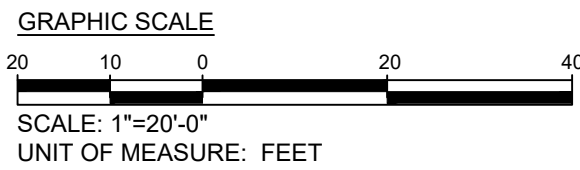


MATCH LINE STA. 160+00 - SEE DWG. C203

SIDEWALK SITE PLAN LEGEND		
	DESCRIPTION	NOTES
	PROPOSED CONCRETE SIDEWALK	①
	PROPOSED CONCRETE DRIVEWAY	②
	PROPOSED FULL DEPTH PAVEMENT	③
	PROPOSED CURB AND GUTTER	④
	LIMIT OF DISTURBANCE	⑤

NOTES:

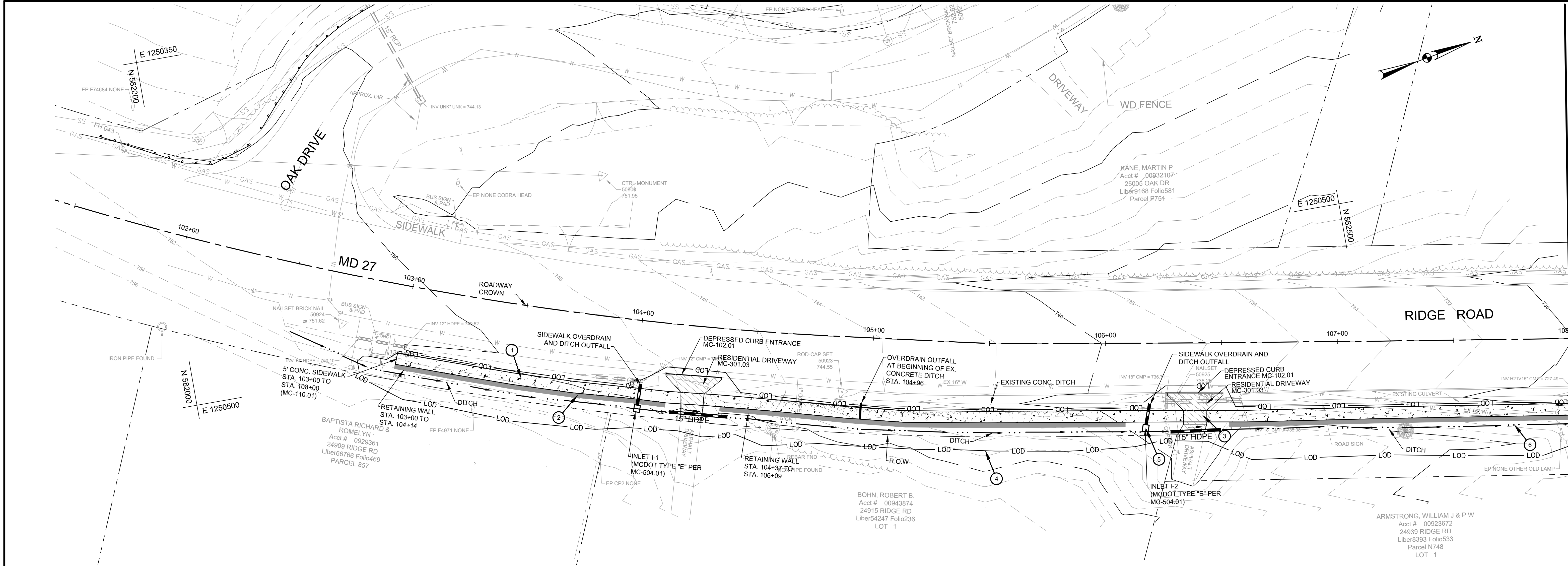
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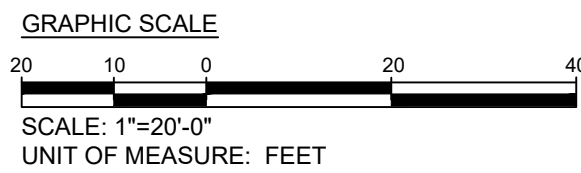
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section		Date	
APPROVED			
Chief, Division of Transportation Engineering		Date	
Designed by:	Drawn by:	Checked by:	

MD 27 SIDEWALK ADDITIONS PHASE 2 (NORTH) SIDEWALK LAYOUT 4 OF 4	
SCALE : AS SHOWN	C204
Project No. : TBD	17 of 74

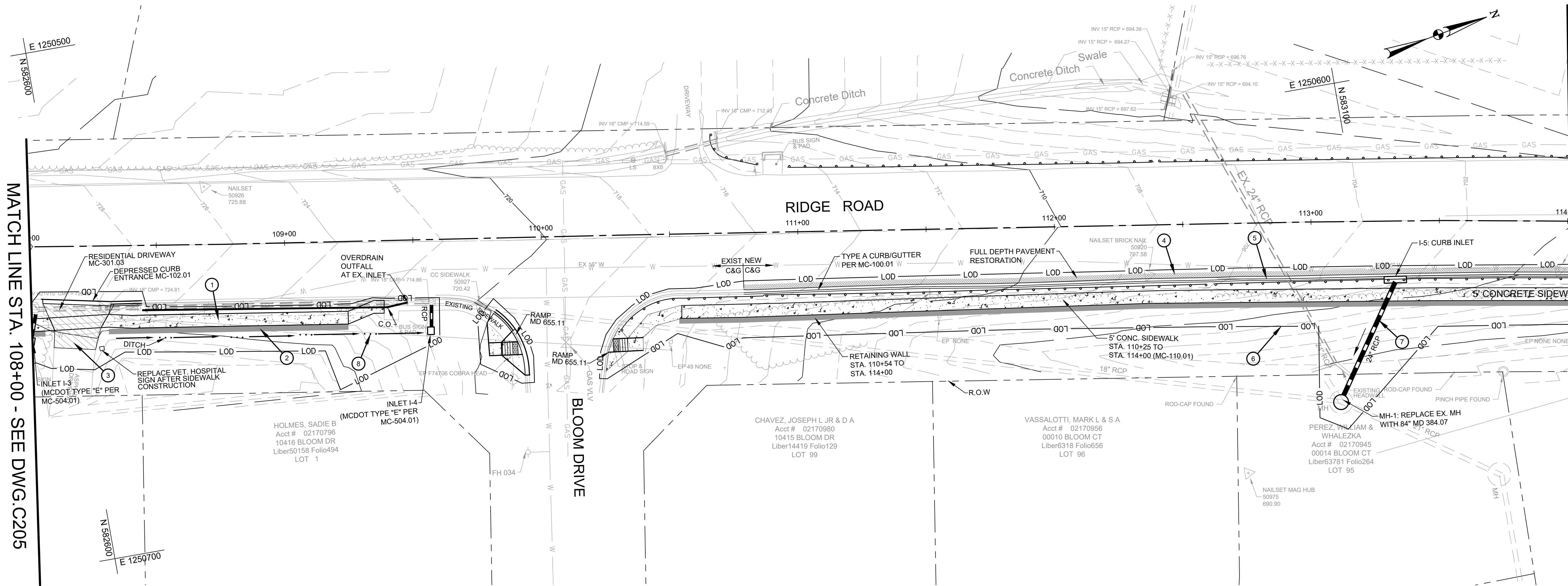


SIDEWALK SITE PLAN LEGEND		
	DESCRIPTION	NOTES
	PROPOSED CONCRETE SIDEWALK	①
	PROPOSED RETAINING WALL	②
	PROPOSED CONCRETE DRIVEWAY	③
	LIMIT OF DISTURBANCE	④
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	DRAINAGE DITCH	⑥

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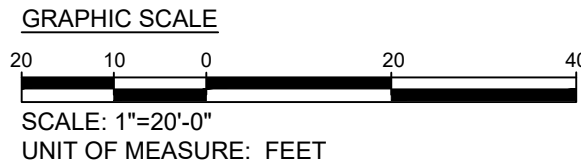


				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MD 27 SIDEWALK ADDITIONS PHASE 3 (SOUTH) SIDEWALK LAYOUT 1 OF 5 SCALE : AS SHOWN Project No.: <u>TBC</u> <u>18</u> of <u>74</u>	
				RECOMMENDED FOR APPROVAL			
				Chief, Design Section _____ Date _____ APPROVED			
				Chief, Division of Transportation Engineering _____ Date _____			
NO.	REVISION	DATE	BY	Designed by: _____ Drawn by: _____ Checked by: _____			



SIDEWALK SITE PLAN LEGEND		
	DESCRIPTION	NOTES
	PROPOSED CONCRETE SIDEWALK	①
	PROPOSED RETAINING WALL	②
	PROPOSED CONCRETE DRIVEWAY	③
	PROPOSED FULL DEPTH PAVEMENT	④
	PROPOSED CURB AND GUTTER	⑤
	LIMIT OF DISTURBANCE	⑥
	PROPOSED INLETS AND PIPE	⑦
	DRAINAGE DITCH	⑧

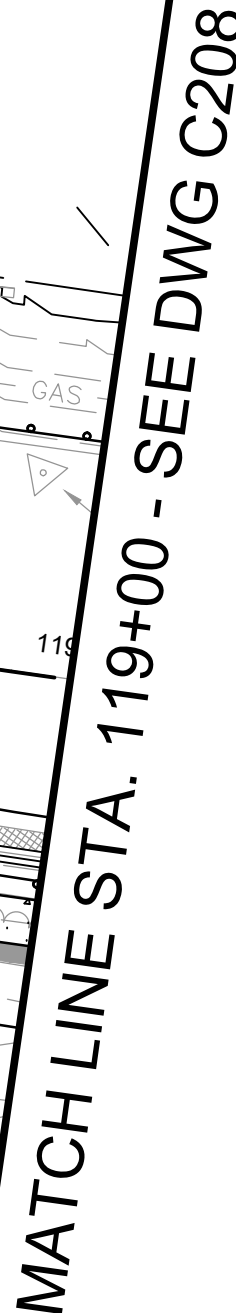
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- GUARD RAIL NOTES:
- REINSTALL GUARD RAIL AFTER CONSTRUCTION OF THE SIDEWALK/CURB & GUTTER/RETAINING WALL.
 - GUARD RAIL AT THE CURB INLETS SHALL BE REDESIGNED TO SPAN OVER THE INLET.



Engineers, Architects
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MATCH LINE STA. 114+00 - SEE DWG. C206



NOTES:

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GUARD RAIL NOTES:

1. REINSTALL GUARD RAIL AFTER CONSTRUCTION OF THE SIDEWALK/CURB & GUTTER/RETAINING WALL.
2. GUARD RAIL AT THE CURB INLETS SHALL BE REDESIGNED TO SPAN OVER THE INLET.



FILE: K:\5605.001 MCDOT MD 27 Sidewalk Addition\5. CADD\30% Submission\SHEETS\C205-C209.dwg
DATE: Sep 20, 2024 - 5:06pm

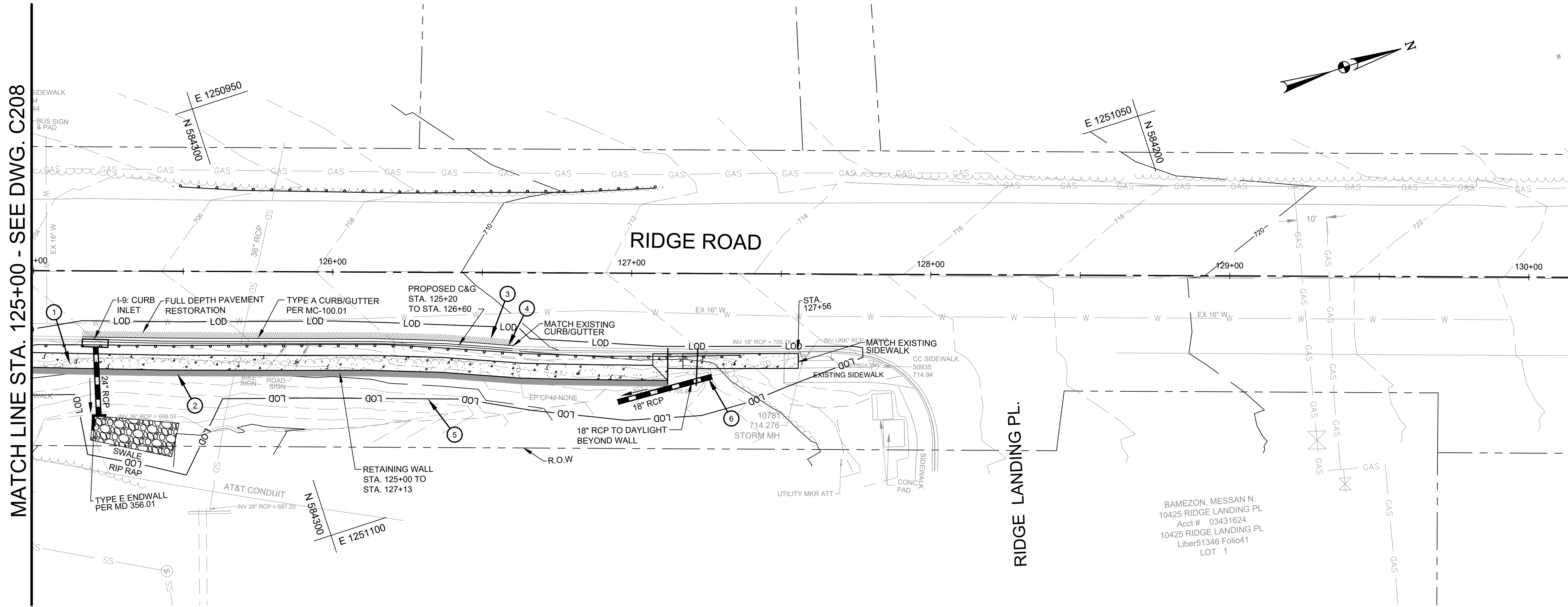
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FILE: K:\5605.001 MCDOT MD 27 Sidewalk Addition\5. CADD\30% Submission\SHEETS\C205-C209.dwg
DATE: Sep 20, 2024 - 5:05pm



SIDEWALK SITE PLAN LEGEND		
	DESCRIPTION	NOTES
	PROPOSED CONCRETE SIDEWALK	①
	PROPOSED RETAINING WALL	②
	PROPOSED FULL DEPTH PAVEMENT	③
	PROPOSED CURB AND GUTTER	④
	LIMIT OF DISTURBANCE	⑤
	PROPOSED INLETS AND PIPE	⑥

NOTES:

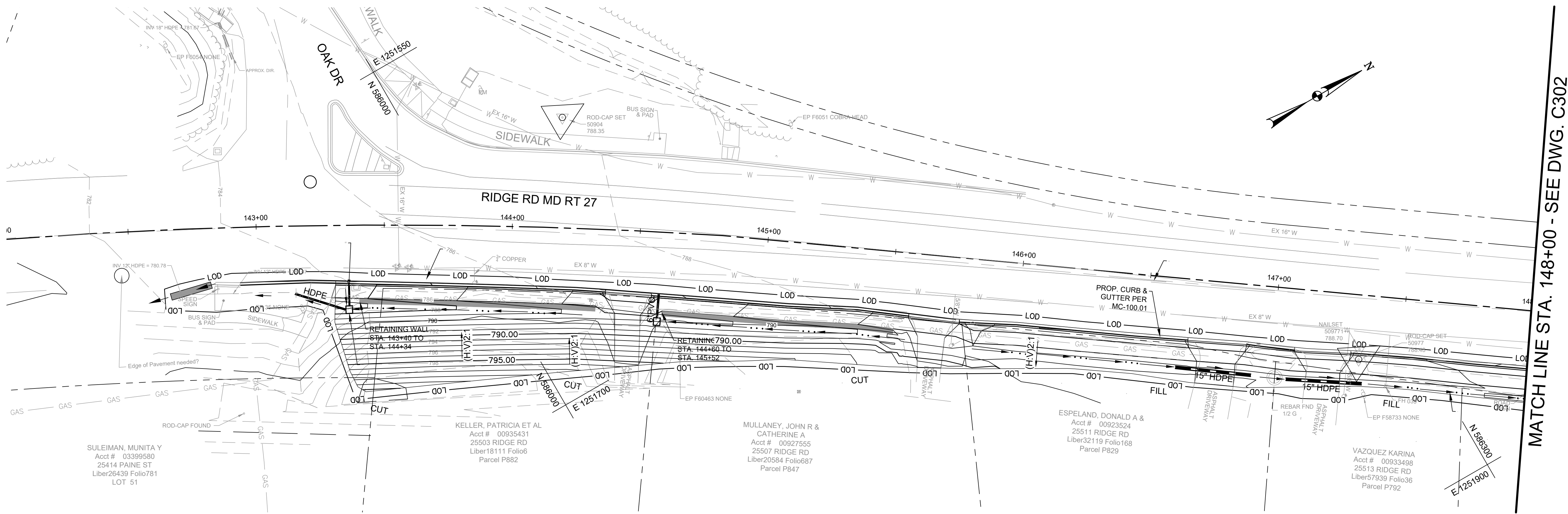
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GUARD RAIL NOTES:

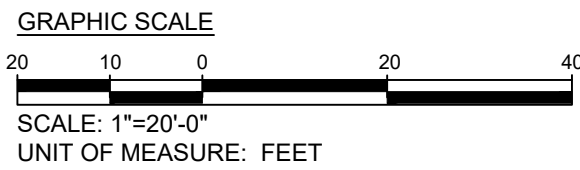
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SHEET NO.	TOTAL SHEETS
23	74



MATCH LINE STA. 148+00 - SEE DWG. C302



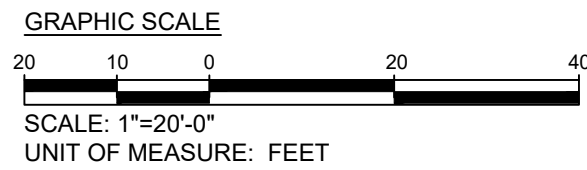
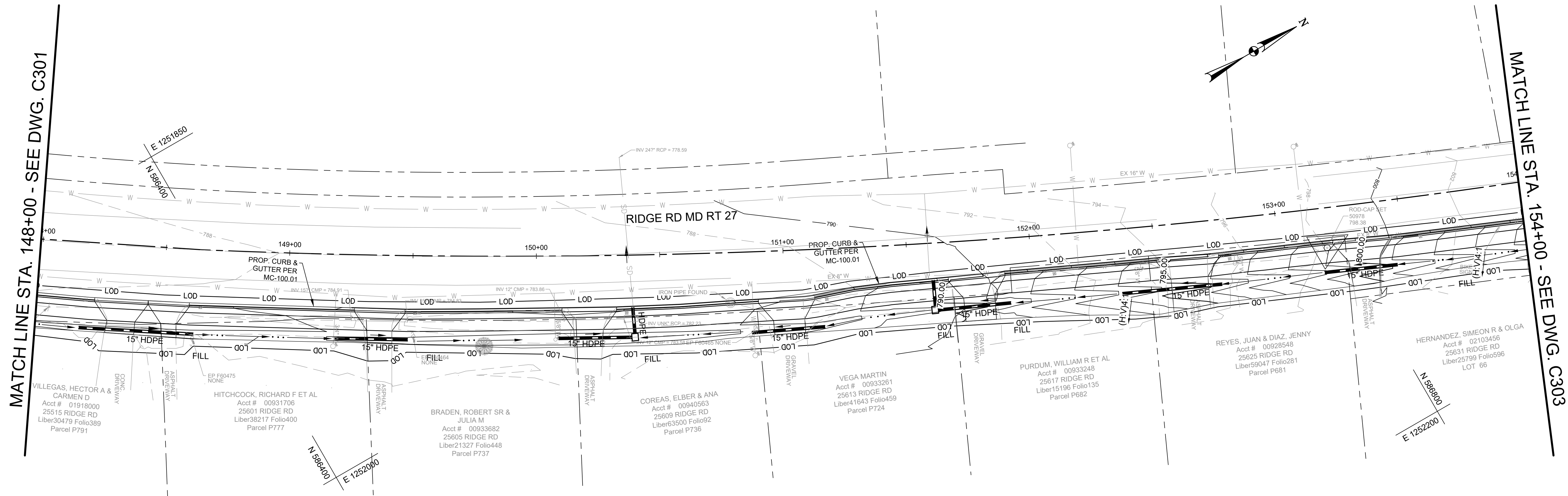
**Engineers, Architects
Development Consultants**
SHELADIA
2088 Gaither Road, Rockville, MD 20850
Phone: 301-580-3839 Fax: 301-948-7174
www.sheladia.com

NO.	REVISION	DATE	BY

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

SEE TITLE SHEET
FOR SIGNATURES

MD 27 SIDEWALK ADDITIONS	
DRAINAGE AND GRADING PLAN- NORTH, SHEET 1 OF 4	
SCALE : AS SHOWN	C301
Project No. : TBC	23 of 74



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NO.	REVISION	DATE	BY

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

MD 27 SIDEWALK ADDITIONS

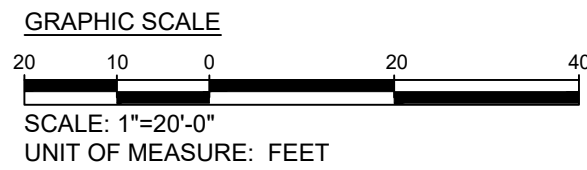
DRAINAGE AND GRADING PLAN-
NORTH, SHEET 2 OF 4

SCALE : AS SHOWN

C302

Project No.: TBC 24 of 74

FILE: K:\5605.001 MCDOT MD 27 Sidewalk Addition\5. CADD\30% Submission\SHEETS\C301-C304.dwg
DATE: Sep 20, 2024 - 2:08pm

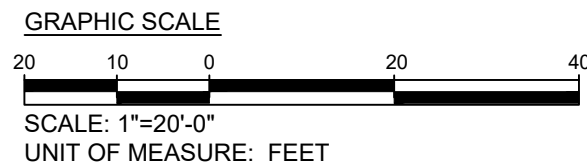
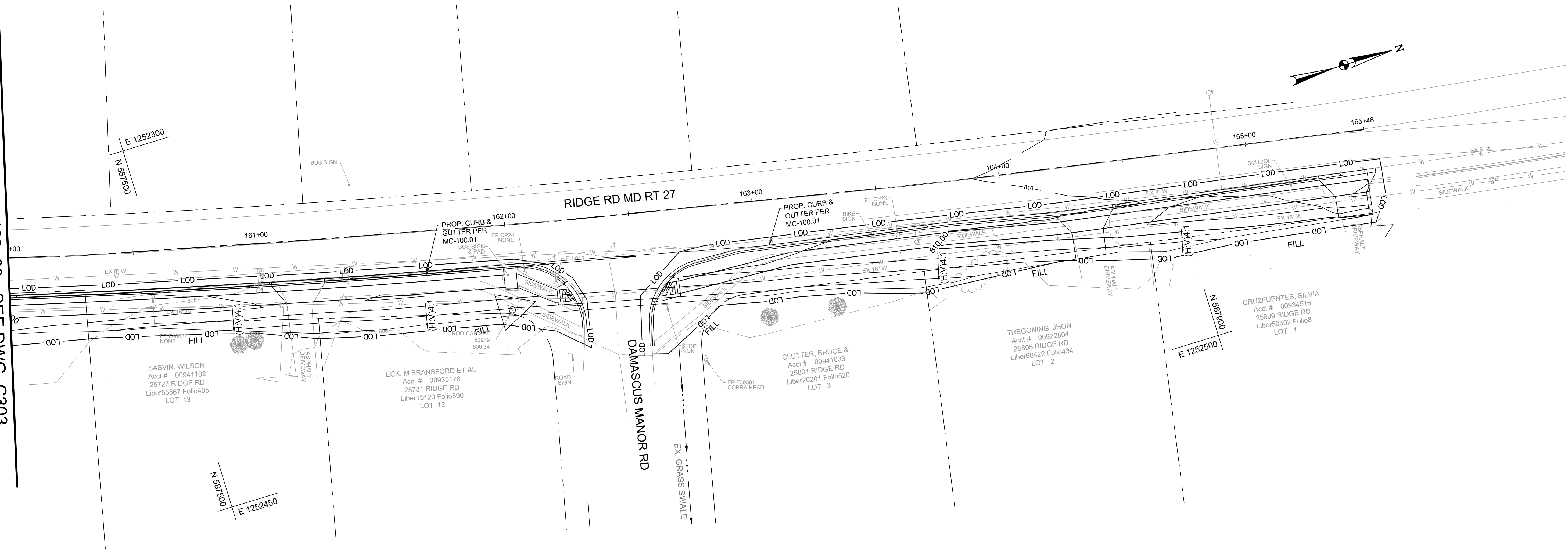


MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		
RECOMMENDED FOR APPROVAL		
Chief, Design Section APPROVED	_____ Date	
Chief, Division of Transportation Engineering	_____ Date	
Designed by: _____	Drawn by: _____	Checked by: _____

SCALE : AS SHOWN

C303

MATCH LINE STA. 160+00 - SEE DWG. C303



Engineers, Architects
Development Consultants
2088 Gaither Road, Rockville, MD 20850
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NO.	REVISION	DATE	BY

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

MD 27 SIDEWALK ADDITIONS

DRAINAGE AND GRADING PLAN-
NORTH, SHEET 4 OF 4

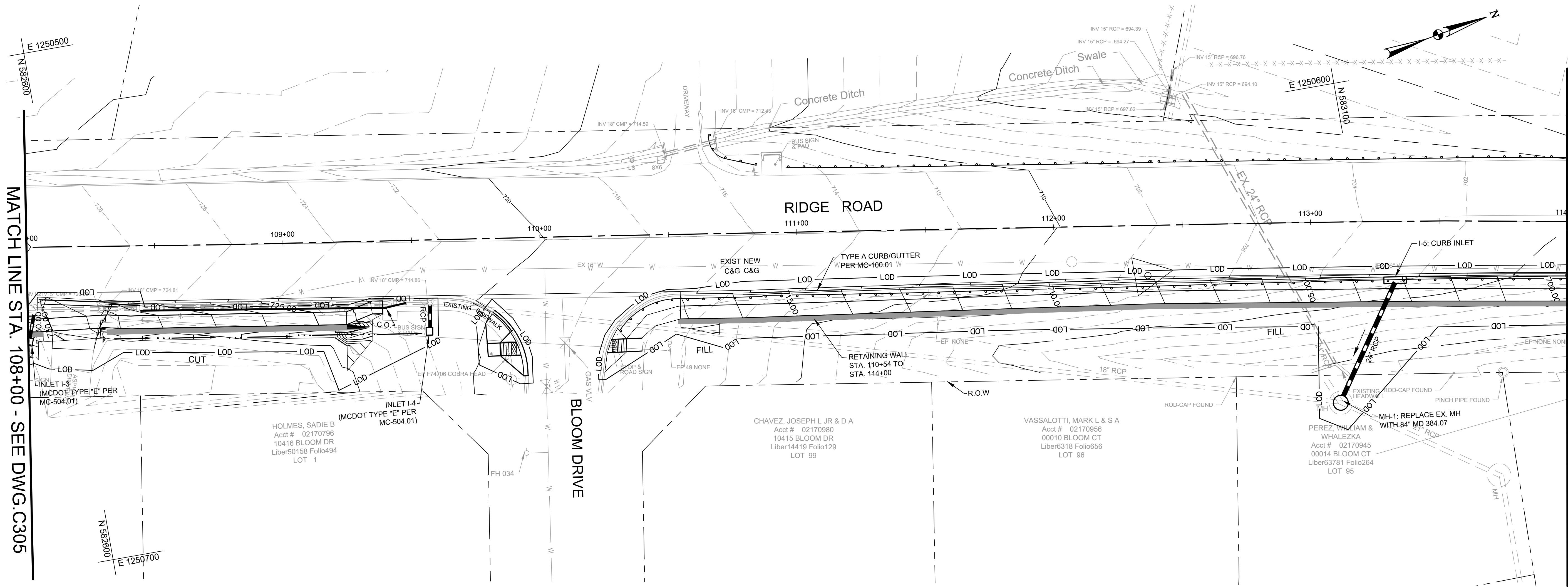
SCALE : AS SHOWN

C304

Project No.: TBC

26 of 74

SHEET NO.	TOTAL SHEETS
28	74

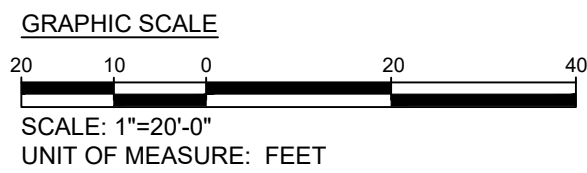


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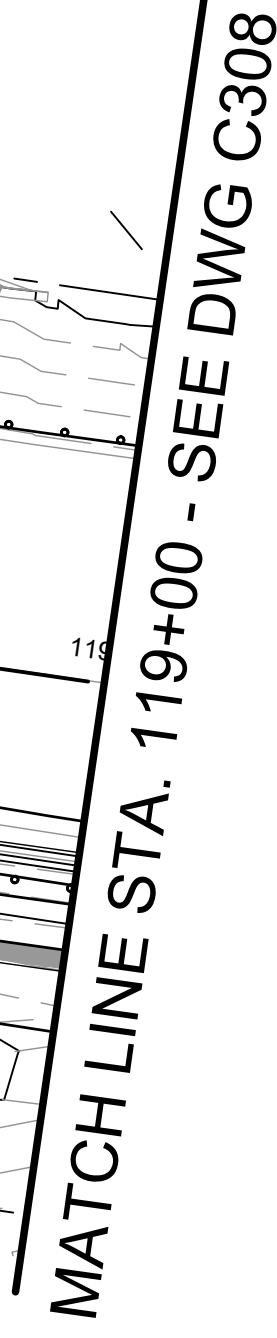
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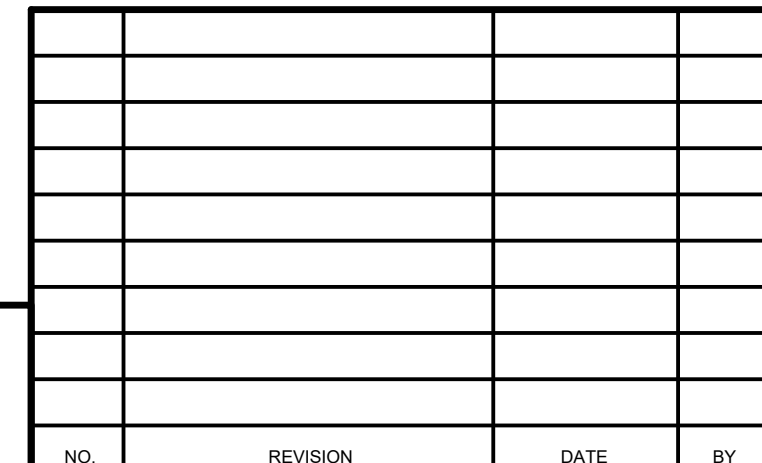


				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MD 27 SIDEWALK ADDITIONS DRAINAGE AND GRADING PLAN- SOUTH, SHEET 2 OF 5	
				RECOMMENDED FOR APPROVAL		SCALE : AS SHOWN	
				Chief, Design Section		Date	
				APPROVED			
				Chief, Division of Transportation Engineering		Date	
				Designed by: _____		Checked by: _____	
				Drawn by: _____		Project No.: TBC	
				DATE		28 of 74	
				BY		C306	
				NO.			
				REVISION			
				DATE			
				BY			

MATCH LINE STA. 114+00 - SEE DWG. C306



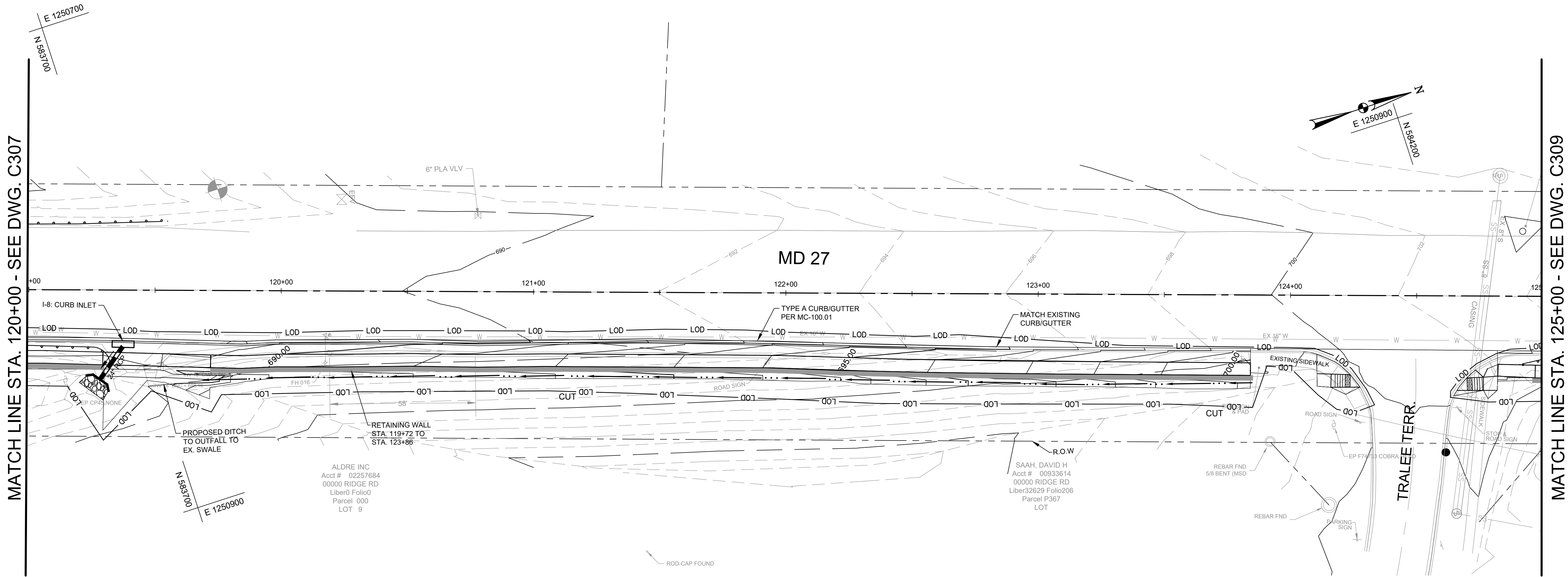
- GRAPHIC SCALE**
- 
- SCALE: 1"=20'-0"
- UNIT OF MEASURE: FEET



MD 27 SIDEWALK ADDITIONS

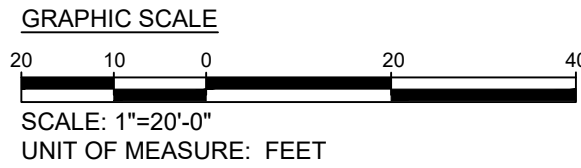
DRAINAGE AND GRADING PLAN— SOUTH, SHEET 3 OF 5

SHEET NO.	TOTAL SHEETS
30	74



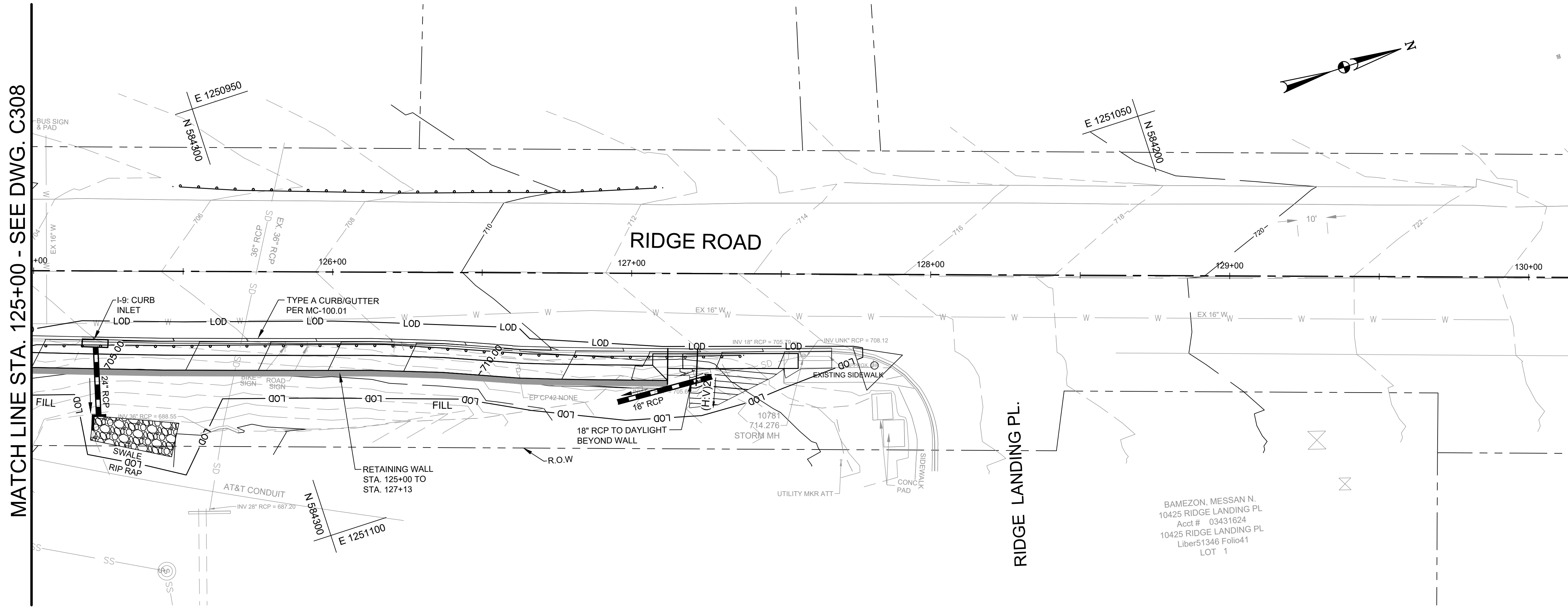
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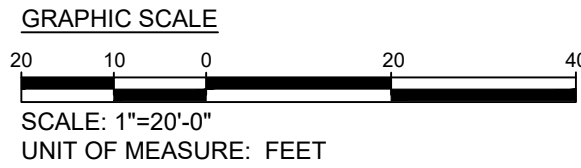


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				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MD 27 SIDEWALK ADDITIONS DRAINAGE AND GRADING PLAN- SOUTH, SHEET 4 OF 5	
				RECOMMENDED FOR APPROVAL		SCALE : AS SHOWN	
				Chief, Design Section APPROVED		Date	
				Chief, Division of Transportation Engineering		Date	
				Designed by: _____		Checked by: _____	
				Drawn by: _____		Project No.: TBC	
						30 of 74	
						C308	



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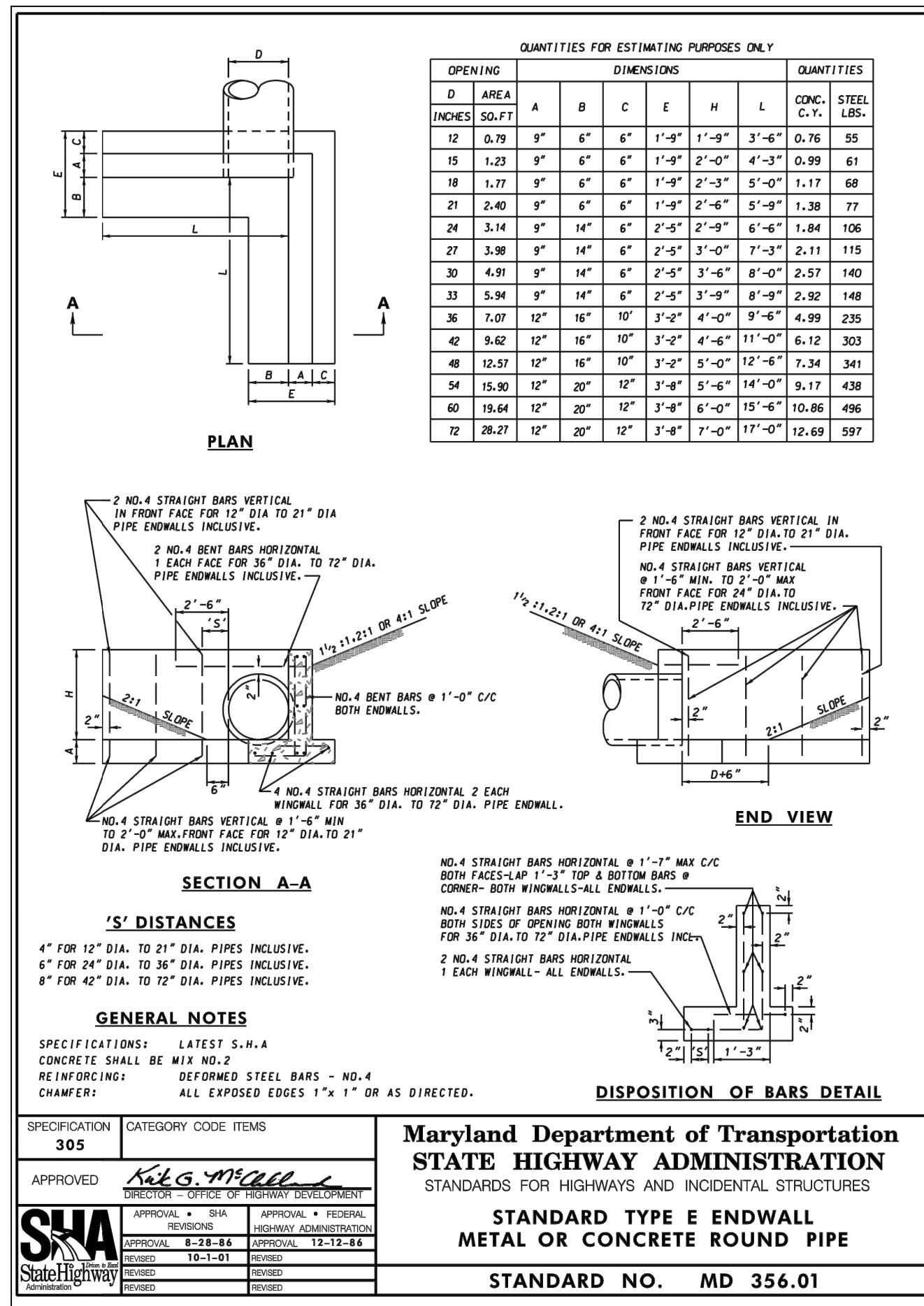
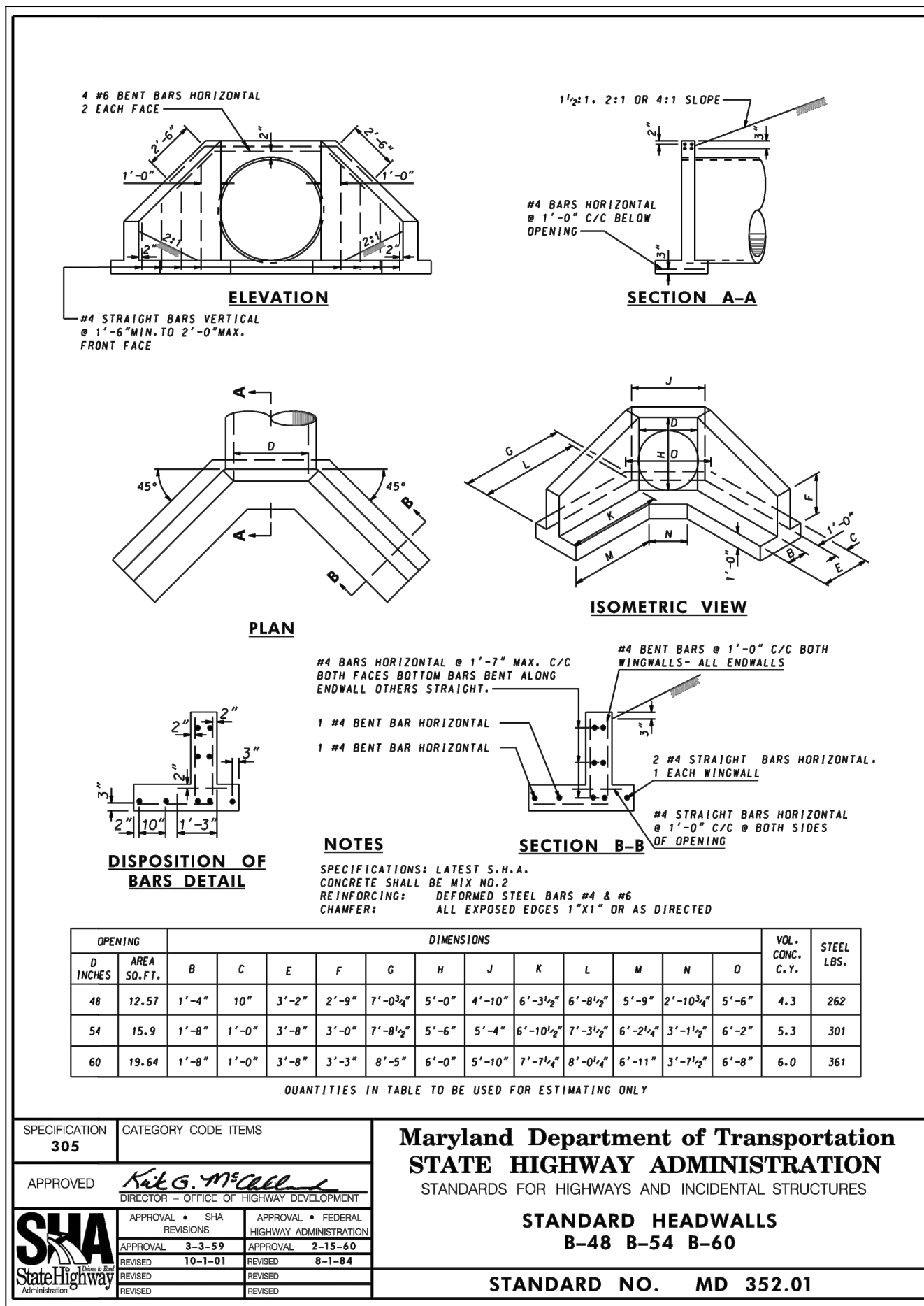
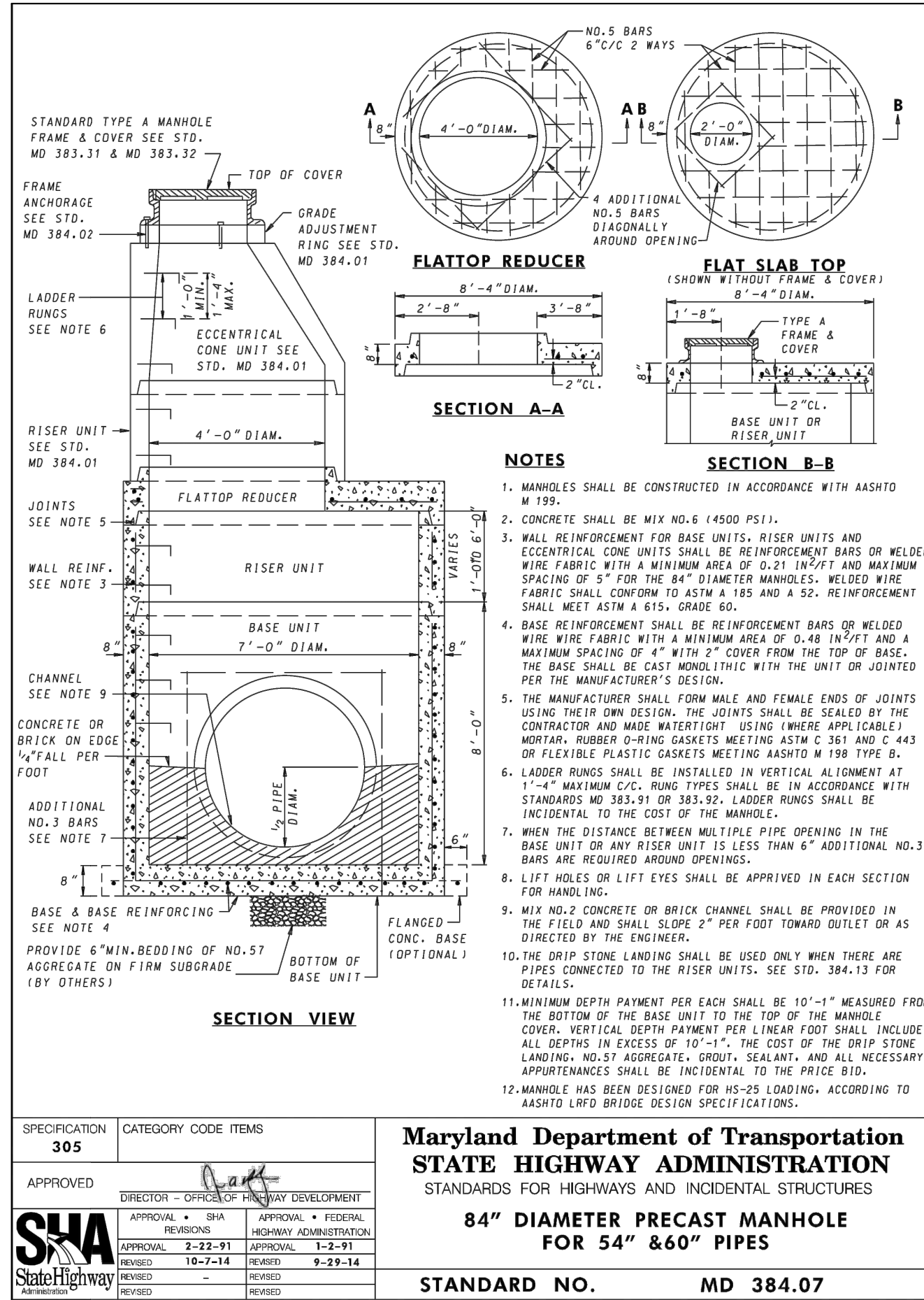
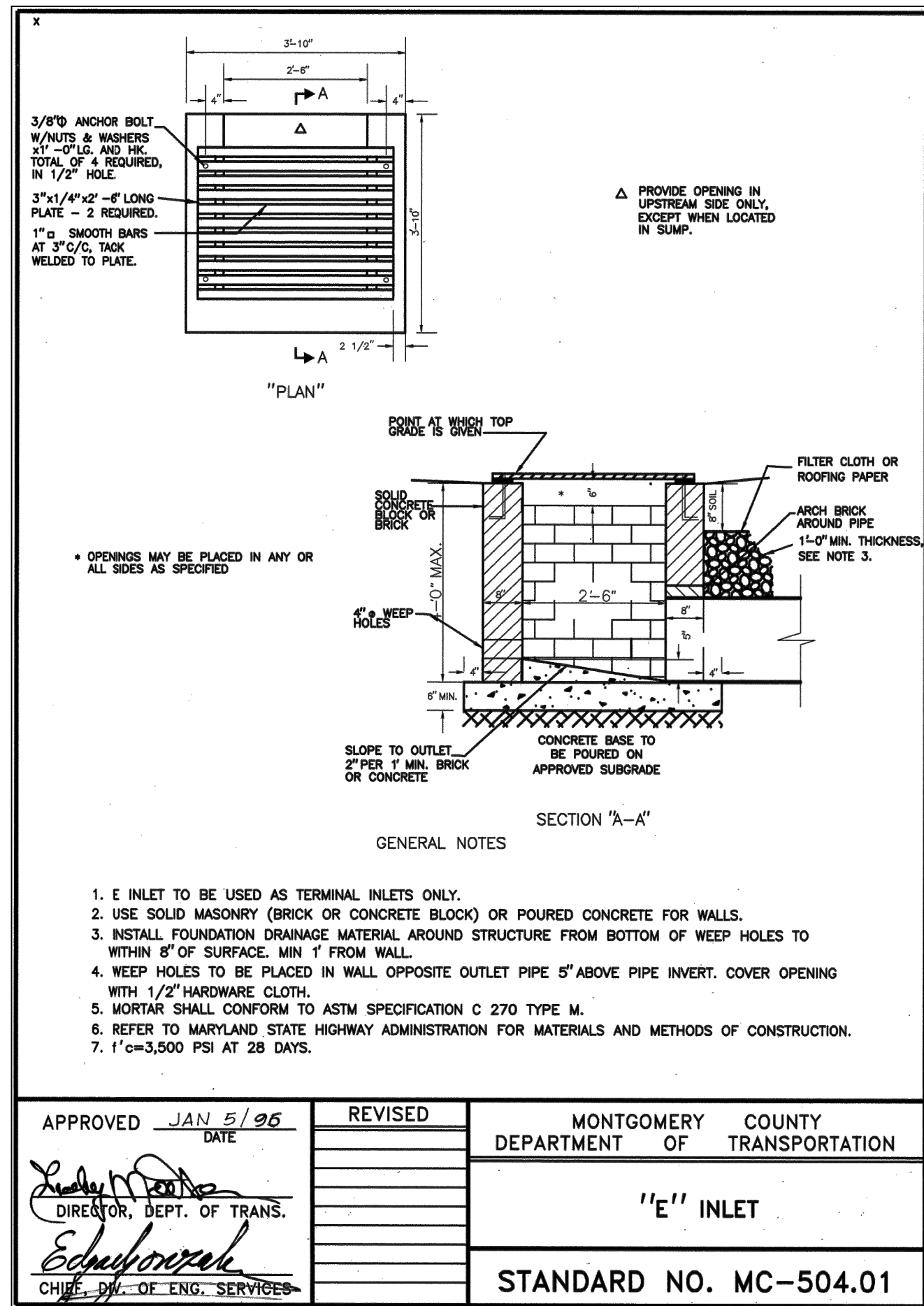
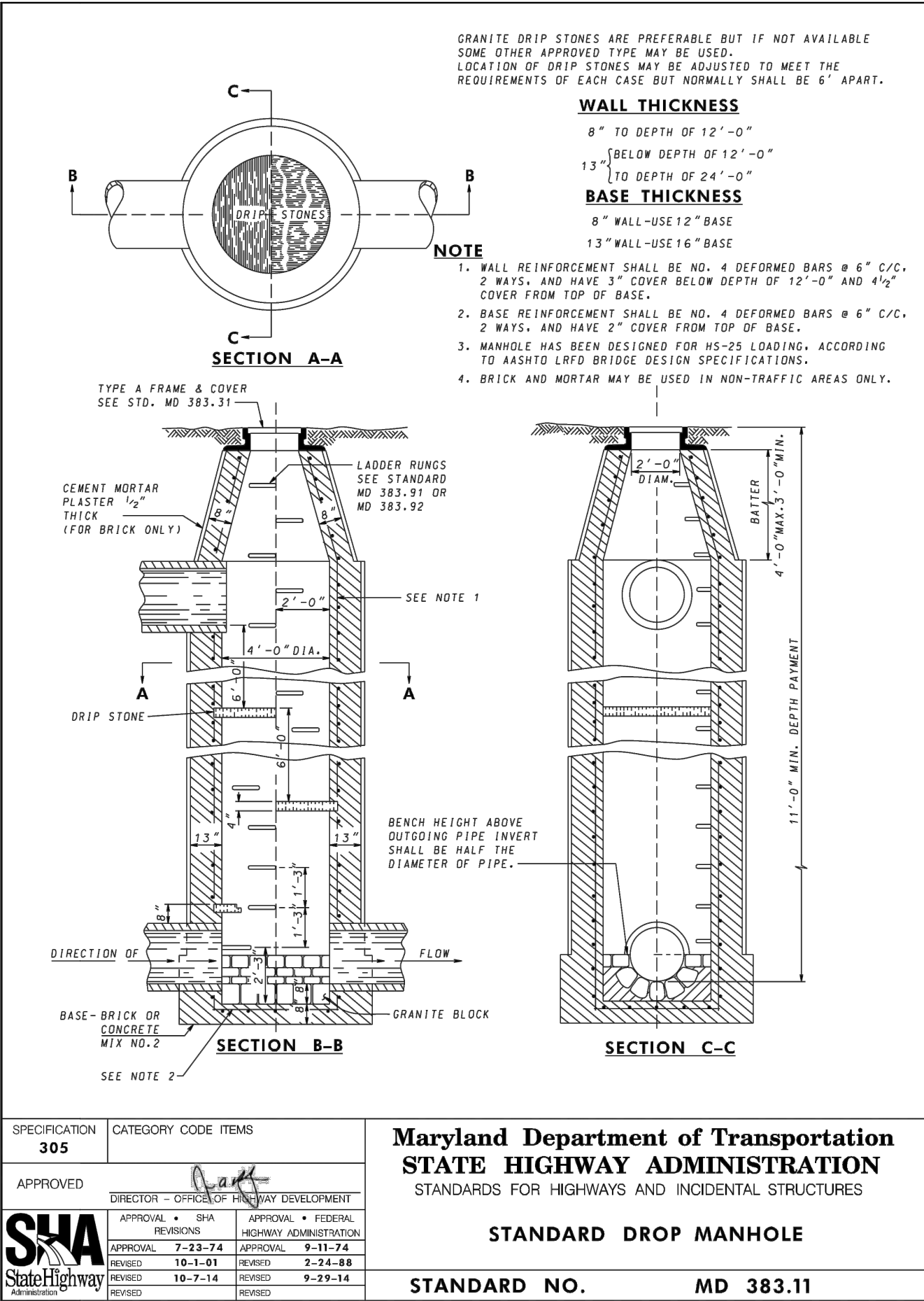
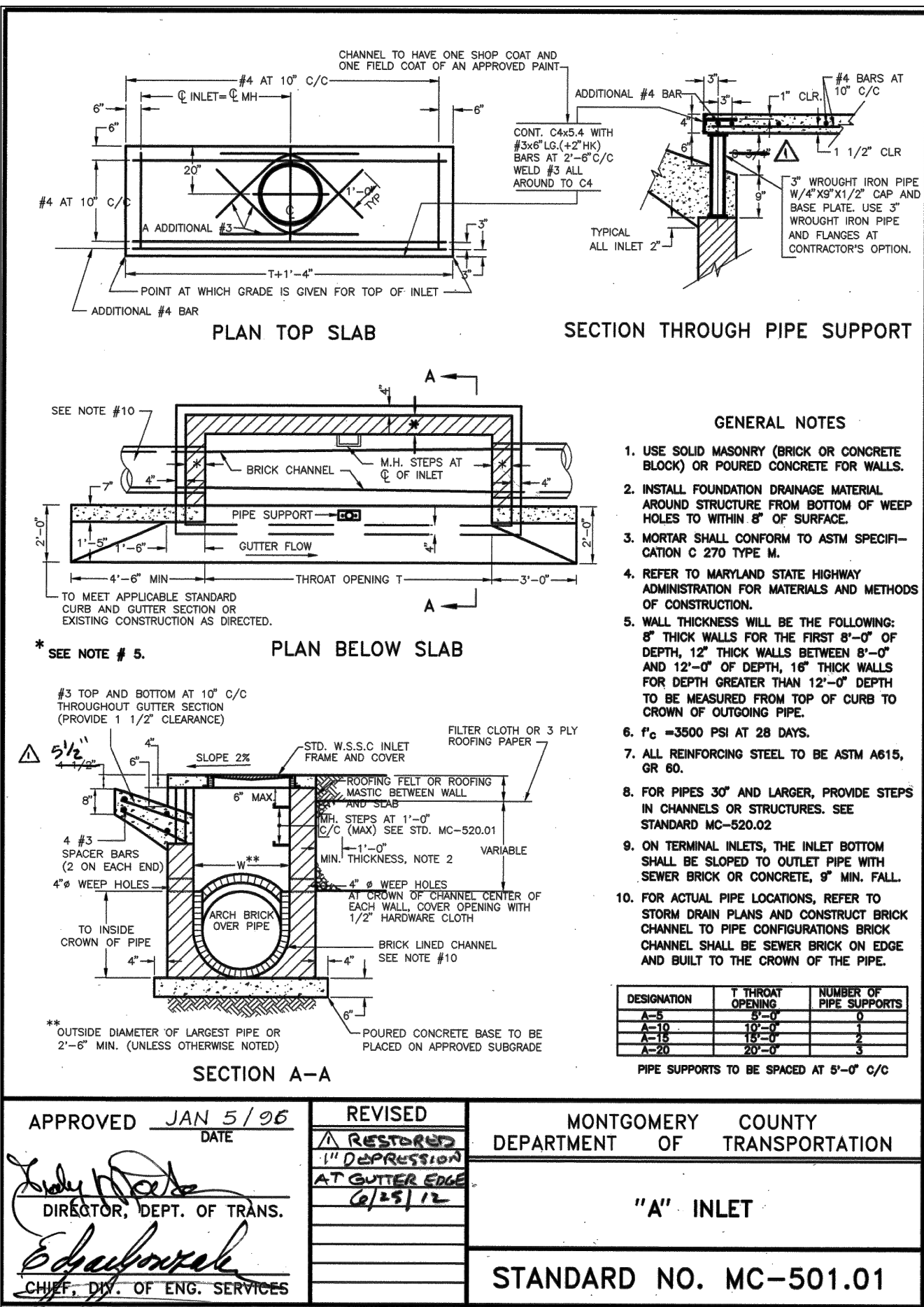


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				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MD 27 SIDEWALK ADDITIONS	
				RECOMMENDED FOR APPROVAL		DRAINAGE AND GRADING PLAN- SOUTH, SHEET 5 OF 5	
				Chief, Design Section APPROVED		Date	
				Chief, Division of Transportation Engineering		Date	
				Designed by: _____		Checked by: _____	
				Drawn by: _____		Project No.: <u>TBC</u>	
						31 of 74	
						C309	



GENERAL STRUCTURAL NOTES:

1. THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, APPLY TO THE DESIGN AND CONSTRUCTION OF THIS PROJECT:
- 1.1. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 5TH EDITION 2010.

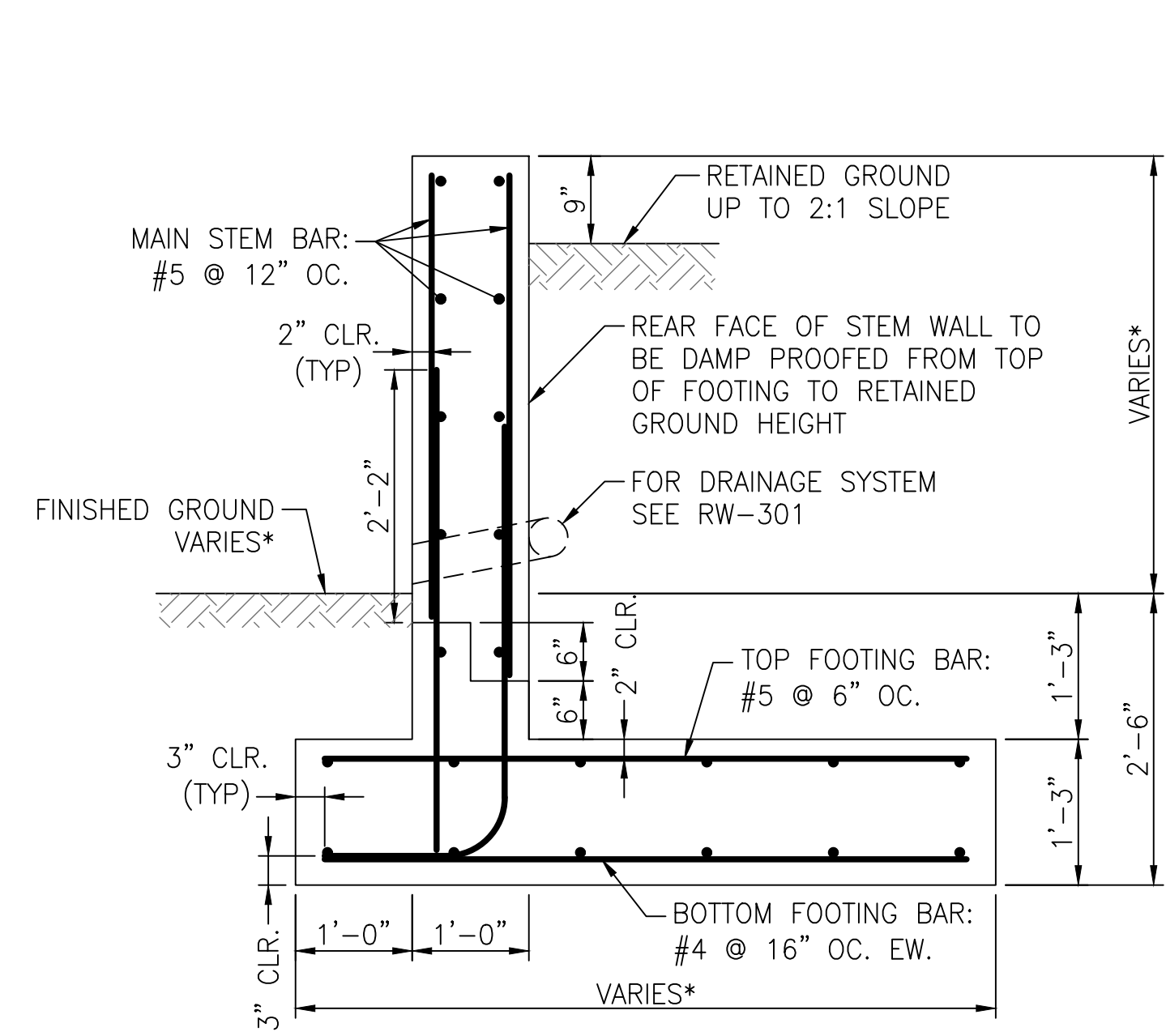
1.2. ASCE/SEI 7-16, "AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES".

1.3. ACI 318-14, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
2. CONCRETE:
- 2.1. ALL STRUCTURAL CONCRETE SHALL BE MIX. No.3 (3500 PSI) EXCEPT AS NOTED UNDER REINFORCING STEEL.
3. REINFORCING STEEL:
- 3.1. REINFORCING STEEL SHALL CONFORM TO A 615, GRADE 60.

3.2. SPLICE REINFORCING BARS PER ACI 318, UNO. REINFORCING BARS TO BE DEVELOPED PER ACI 318.

3.3. MINIMUM COVER FOR ANY BAR SHALL BE 2 INCHES UNLESS OTHERWISE NOTED, WITH EXCEPTION OF BARS AT THE BOTTOM AND SIDES OF ALL FOOTINGS WHICH SHALL BE 3 INCHES.

3.4. IF FRONT FACE OF A RETAINING WALL LESS THAN 10 FEET FROM THE EDGE OF PAVED SURFACES, EPOXY COATED REINFORCEMENT SHALL BE USED IN THE FRONT FACE OF THE STEM AND MIX. No.6 (4500 PSI) CONCRETE SHALL BE USED FOR THE STEM.

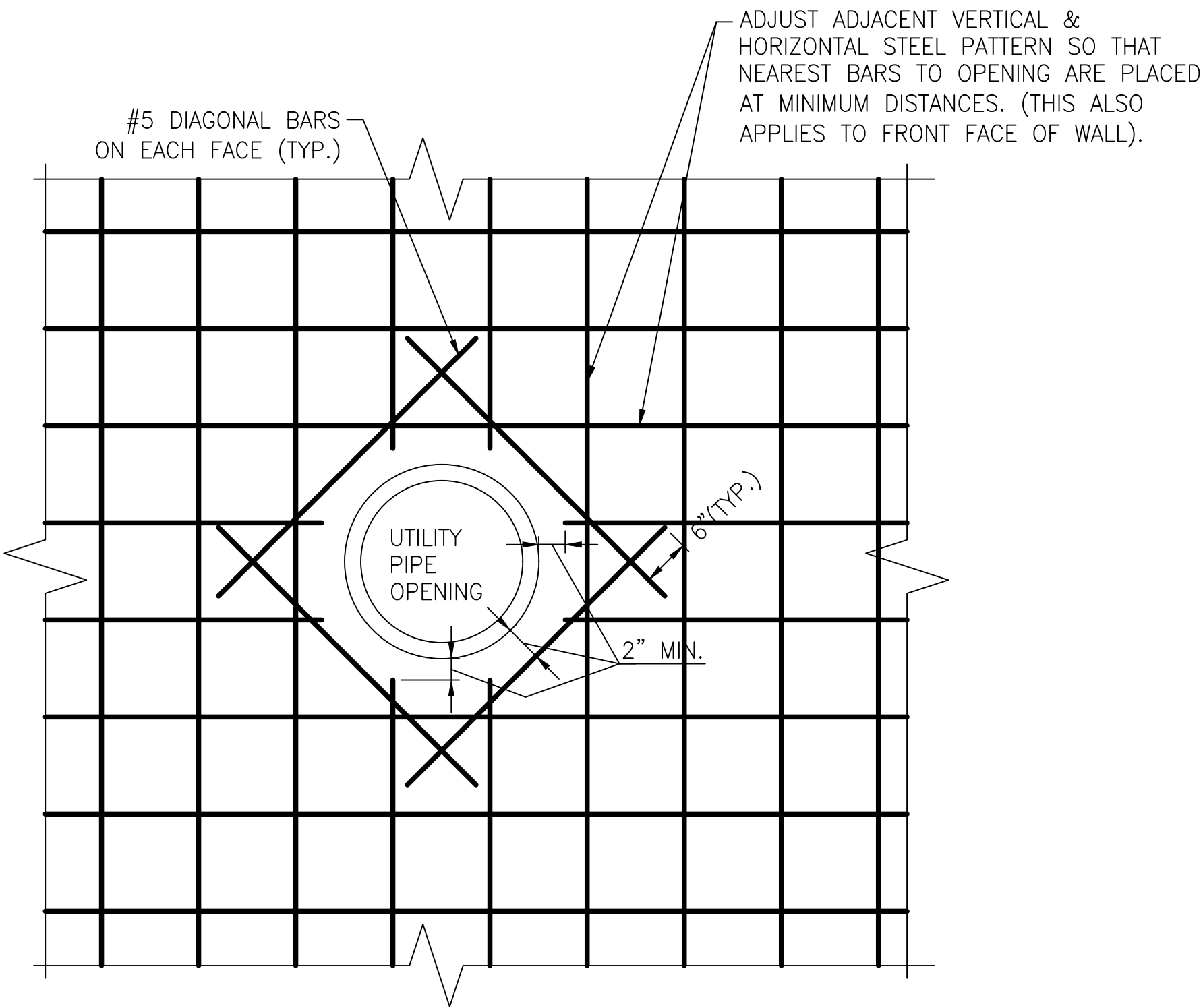


- NOTES:
1. SEE SHA DETAIL RW-401 FOR RETAINING WALL CONTRACTION & EXPANSION JOINTS

2. SEE SHA DETAIL RW-402 FOR RETAINING WALL STEPPED FOOTING DETAIL.

RETAINING WALL TYPICAL

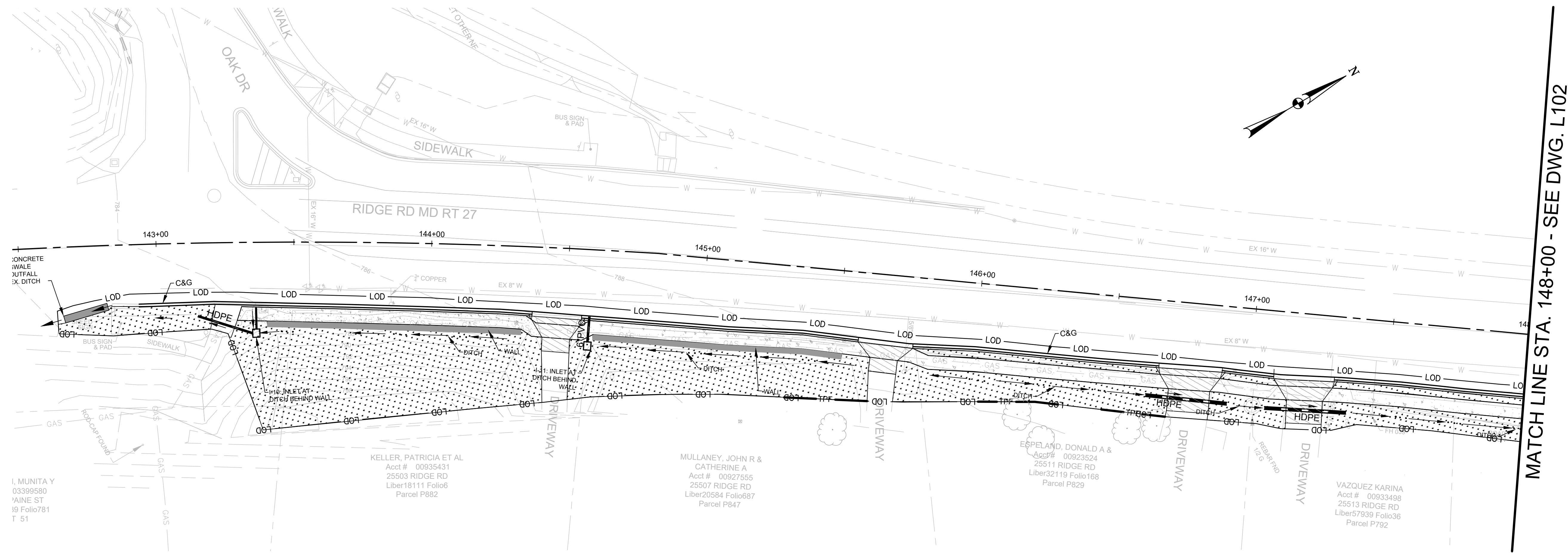
NTS



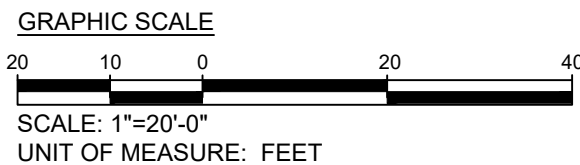
RETAINING WALL REINFORCEMENT
ADJUSTMENT AT UTILITY OPENING

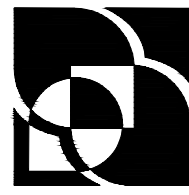
NTS

SHEET NO.	TOTAL SHEETS
14	---



LANDSCAPE PLAN LEGEND	
	DESCRIPTION
	PROPOSED CONCRETE SIDEWALK
	PROPOSED RETAINING WALL
	NEW SEEDED TURF
	TREE - MAJOR
	TREE - MINOR
	EVERGREEN TREE
	SHRUBS
	TREE PROTECTION FENCE
	LIMIT OF DISTURBANCE





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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Chief, Division of Transportation Engineering

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

Date: _____ Date: _____

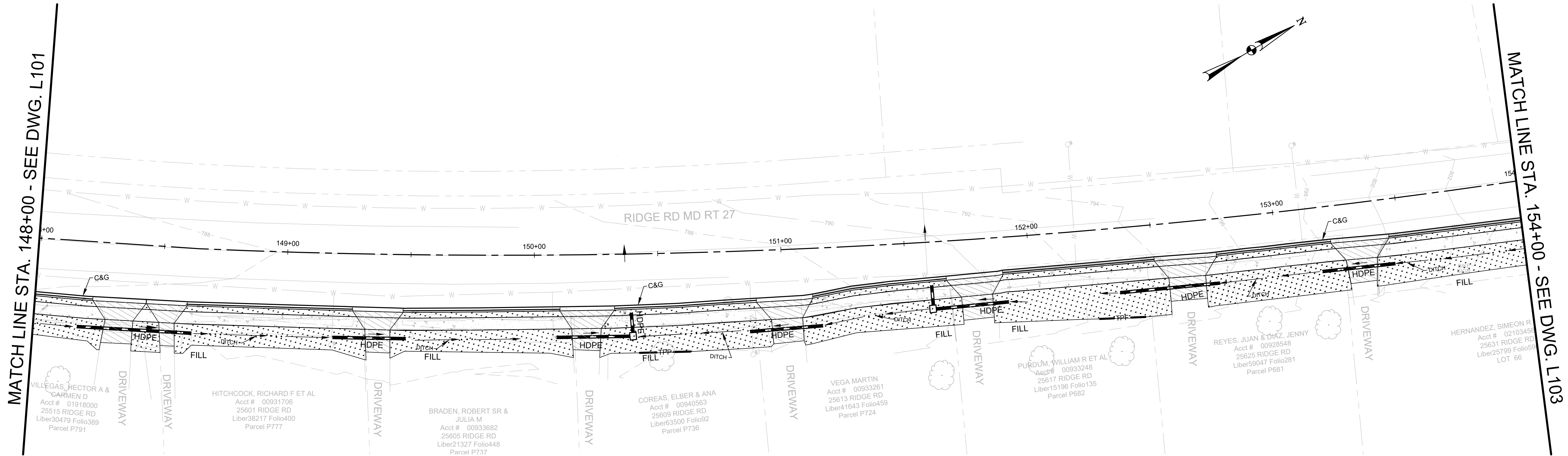
MD 27 SIDEWALK
ADDITIONS
PHASE 2 (NORTH)
LANDSCAPE PLAN
1 OF 4

SCALE : AS SHOWN

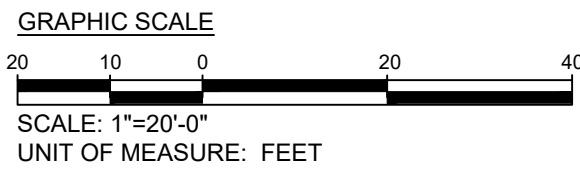
Project No.: TBC 14 of ---

L101

SHEET NO.	TOTAL SHEETS
15	---



LANDSCAPE PLAN LEGEND	
	DESCRIPTION
	PROPOSED CONCRETE SIDEWALK
	PROPOSED RETAINING WALL
	NEW SEEDDED TURF
	TREE - MAJOR
	TREE - MINOR
	EVERGREEN TREE
	SHRUBS
	TREE PROTECTION FENCE
	LIMIT OF DISTURBANCE





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				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
				RECOMMENDED FOR APPROVAL			
				_____ Chief, Design Section		_____ Date	
				APPROVED			
				_____ Chief, Division of Transportation Engineering		_____ Date	
NO.	REVISION	DATE	BY	Designed by: _____		Drawn by: _____	
						Checked by: _____	

MD 27 SIDEWALK
ADDITIONS
PHASE 2 (NORTH)
LANDSCAPE PLAN
2 OF 4

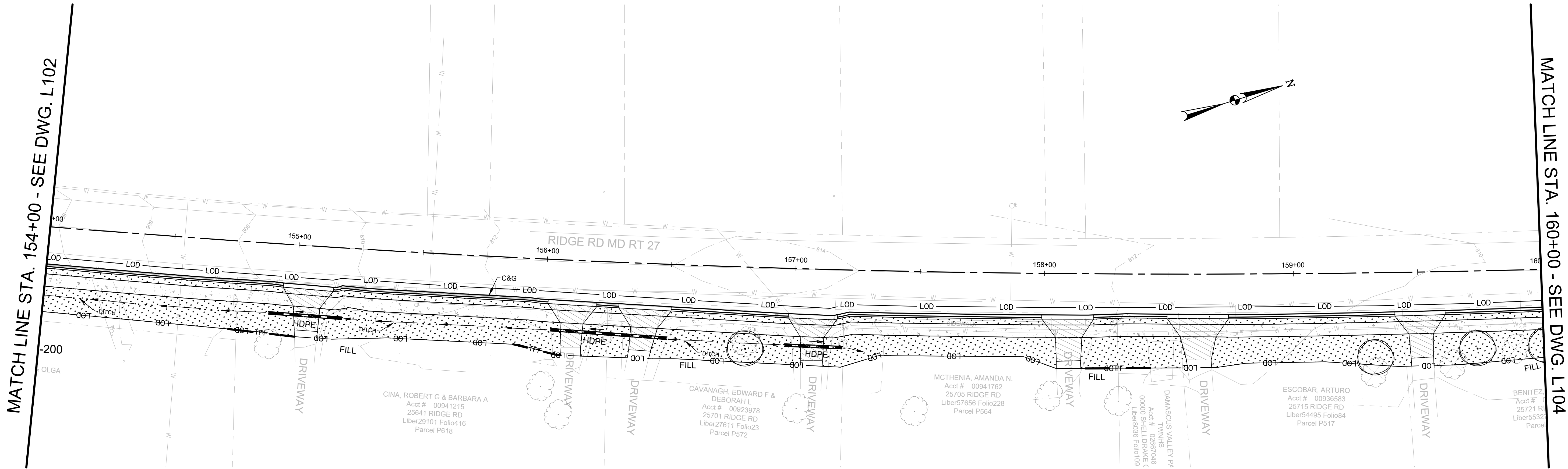
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Project No.: TBC 15 of ---

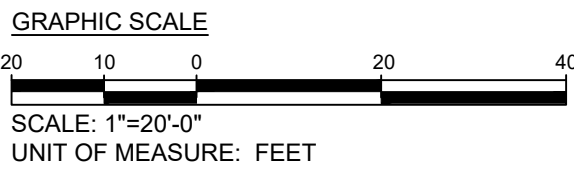
L102

FILE: _____
DATE: _____

SHEET NO.	TOTAL SHEETS
16	---



LANDSCAPE PLAN LEGEND	
	DESCRIPTION
	PROPOSED CONCRETE SIDEWALK
	PROPOSED RETAINING WALL
	NEW SEEDED TURF
	TREE - MAJOR
	TREE - MINOR
	EVERGREEN TREE
	SHRUBS
	TREE PROTECTION FENCE
	LIMIT OF DISTURBANCE





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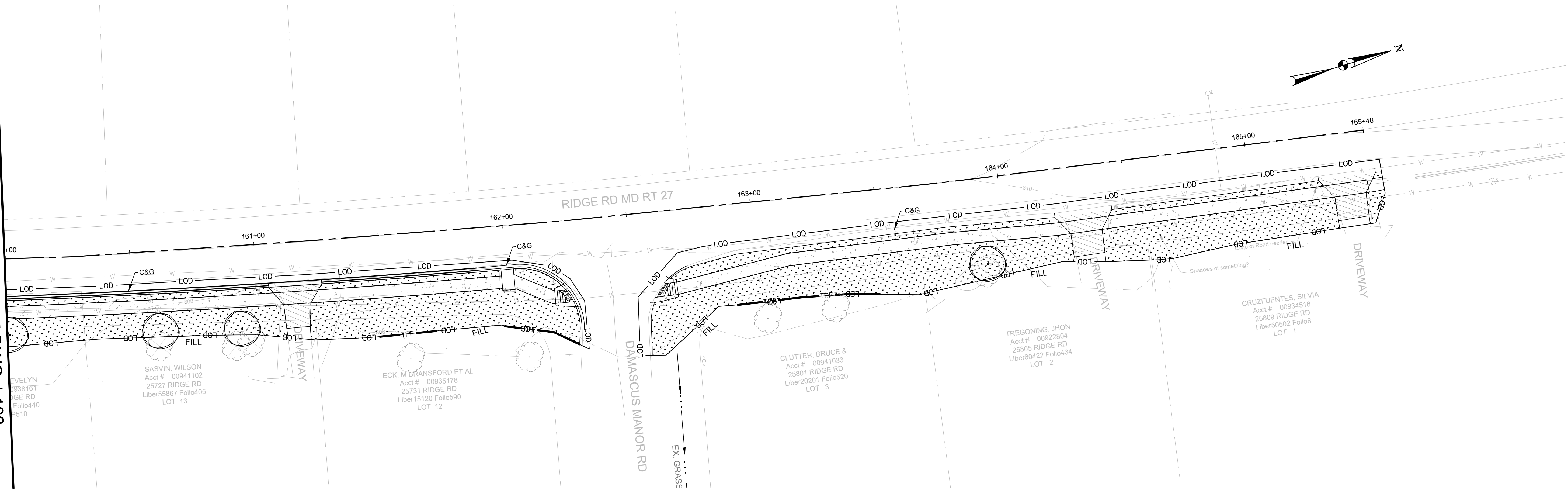
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by: _____	Drawn by: _____
Checked by: _____	

**MD 27 SIDEWALK
ADDITIONS
PHASE 2 (NORTH)
LANDSCAPE PLAN**
3 OF 4

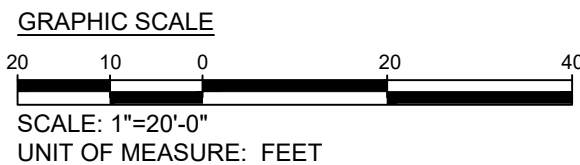
SCALE : AS SHOWN

Project No.: TBC of ---

MATCH LINE STA. 160+00 - SEE DWG. L103



LANDSCAPE PLAN LEGEND	
	DESCRIPTION
	PROPOSED CONCRETE SIDEWALK
	PROPOSED RETAINING WALL
	NEW SEEDED TURF
	TREE - MAJOR
	TREE - MINOR
	EVERGREEN TREE
	SHRUBS
	TREE PROTECTION FENCE
	LIMIT OF DISTURBANCE



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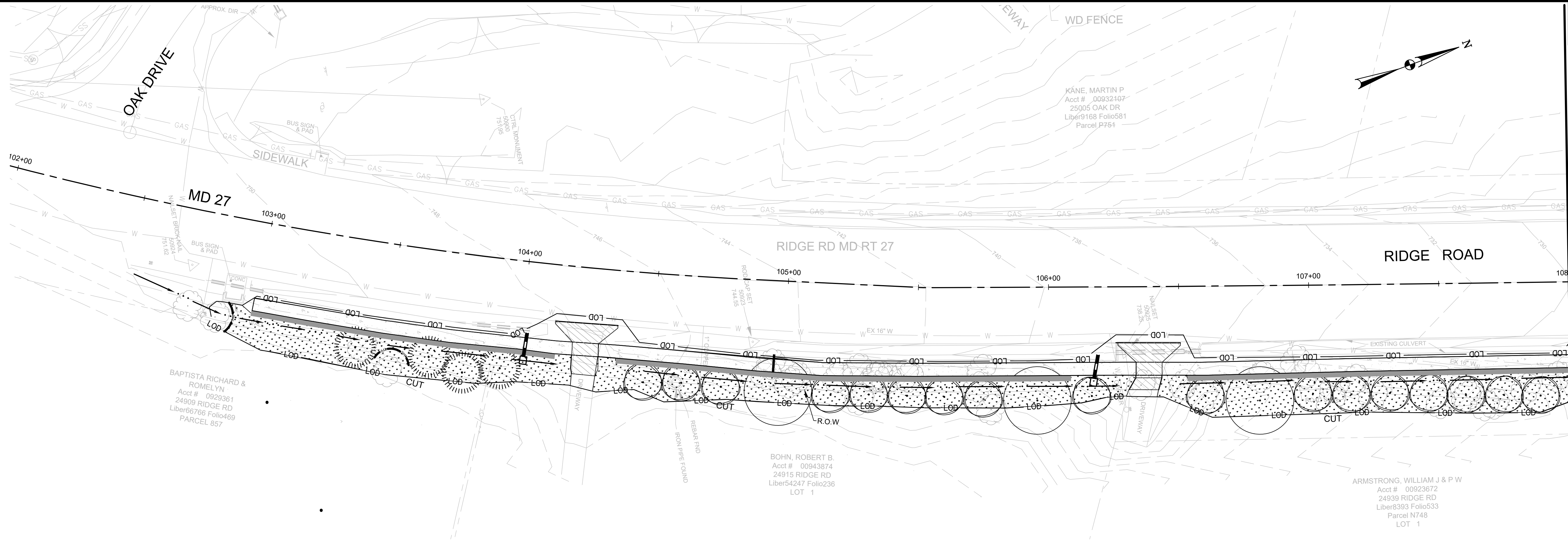
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				RECOMMENDED FOR APPROVAL	
				Chief, Design Section	Date
				APPROVED	
				Chief, Division of Transportation Engineering	Date
				Designed by: _____	Checked by: _____
				Drawn by: _____	

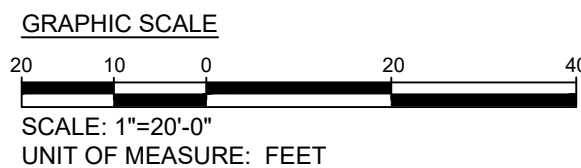
MD 27 SIDEWALK ADDITIONS PHASE 2 (NORTH) LANDSCAPE PLAN 4 OF 4	
SCALE : AS SHOWN	L104
Project No. : TBC	17 of ---

SHEET NO.	TOTAL SHEETS
18	---

MATCH LINE STA. 108+00 - SEE DWG. L106



LANDSCAPE PLAN LEGEND	
	DESCRIPTION
	PROPOSED CONCRETE SIDEWALK
	PROPOSED RETAINING WALL
	NEW SEEDED TURF
	TREE - MAJOR
	TREE - MINOR
	EVERGREEN TREE
	SHRUBS
	TREE PROTECTION FENCE
	LIMIT OF DISTURBANCE





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RECOMMENDED FOR APPROVAL			
Chief, Design Section		Date	
APPROVED			
Chief, Division of Transportation Engineering		Date	
Designed by:	Drawn by:	Checked by:	

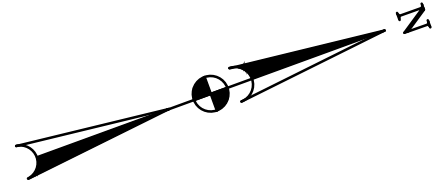
**MD 27 SIDEWALK
ADDITIONS
SOUTH SITE
LANDSCAPE PLAN
1 OF 5**

SCALE : AS SHOWN

L105

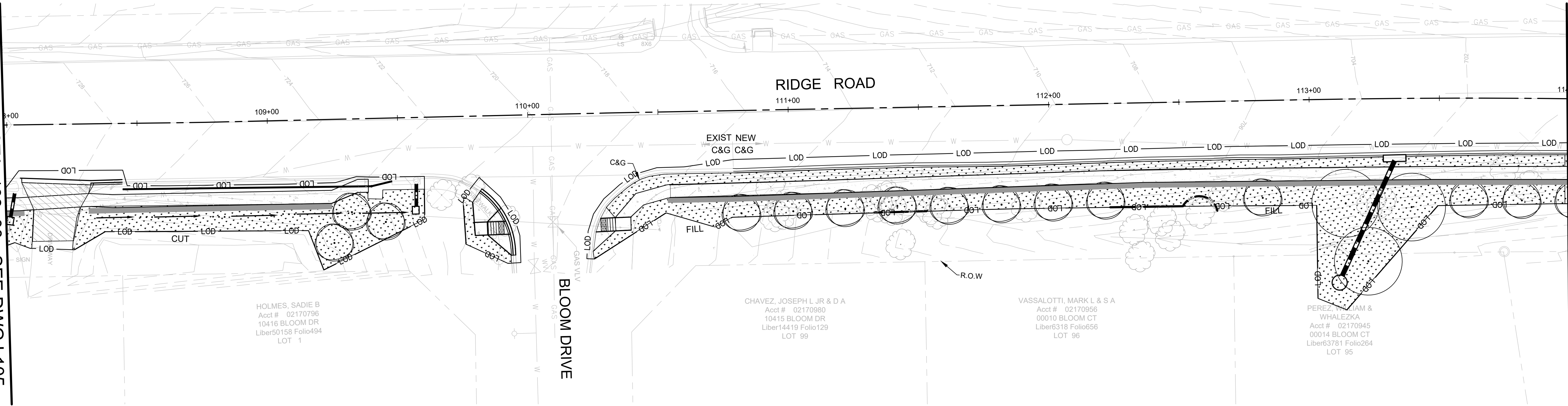
FILE:
DATE:

SHEET NO.	TOTAL SHEETS
19	---



MATCHLINE STA. 108+00 - SEE DWG. L105

MATCH LINE STA. 114+00 - SEE DWG. L107



HOLMES, SADIE B
Acct # 02170796
10416 BLOOM DR
Liber50158 Folio494
LOT 1

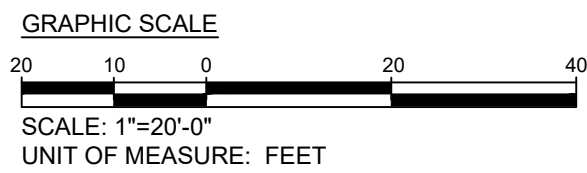
BLOOM DRIVE

CHAVEZ, JOSEPH L JR & D A
Acct # 02170980
10415 BLOOM DR
Liber14419 Folio129
LOT 99

VASSALOTTI, MARK L & S A
Acct # 02170956
00010 BLOOM CT
Liber6318 Folio656
LOT 96

PEREZ, WILLIAM &
WHALEZKA
Acct # 02170945
00014 BLOOM CT
Liber63781 Folio264
LOT 95

LANDSCAPE PLAN LEGEND	
	DESCRIPTION
	PROPOSED CONCRETE SIDEWALK
	PROPOSED RETAINING WALL
	NEW SEEDDED TURF
	TREE - MAJOR
	TREE - MINOR
	EVERGREEN TREE
	SHRUBS
	TREE PROTECTION FENCE
	LIMIT OF DISTURBANCE



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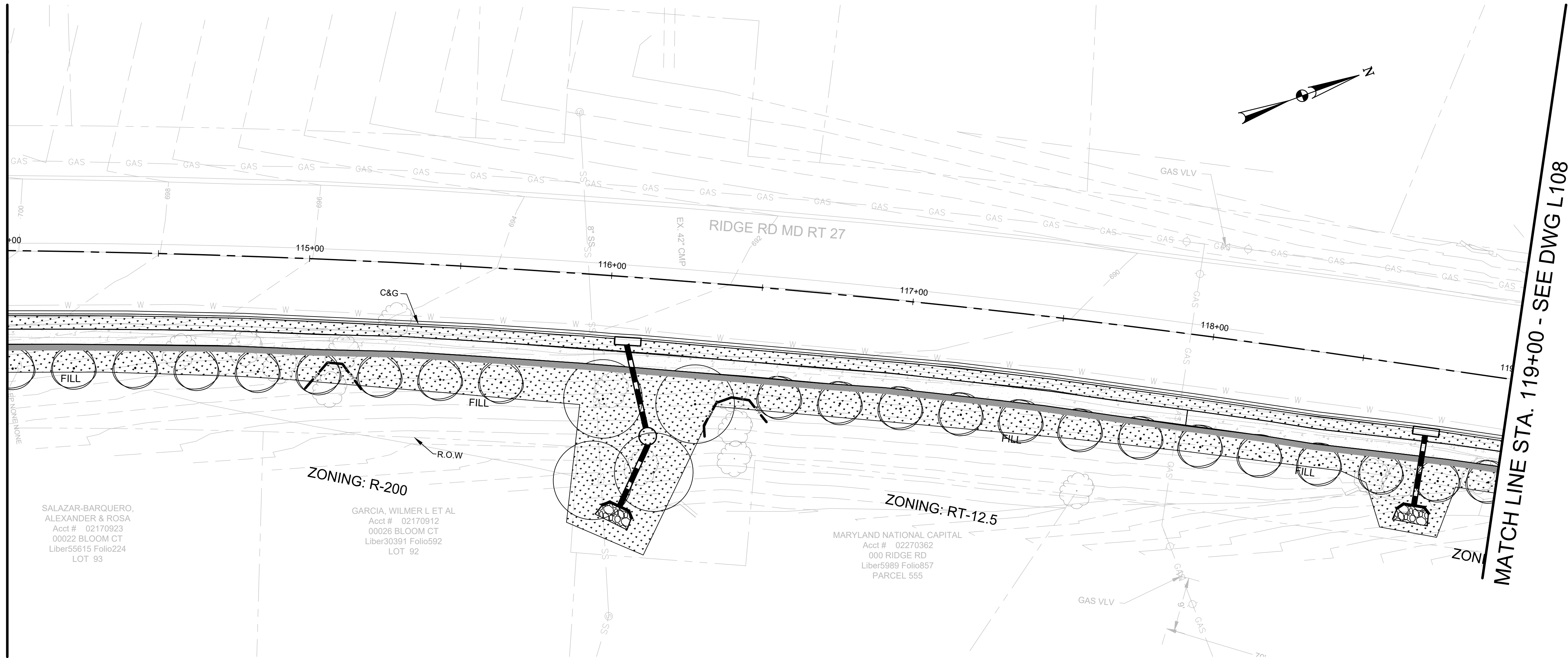
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by: _____	Drawn by: _____
Checked by: _____	

SEE TITLE SHEET
FOR SIGNATURES

MD 27 SIDEWALK ADDITIONS SOUTH SITE LANDSCAPE PLAN 2 OF 5	
SCALE : AS SHOWN	L106
Project No. : TBC	19 of ---

SHEET NO.	TOTAL SHEETS
20	---

MATCH LINE STA. 114+00 - SEE DWG. L106



MATCH LINE STA. 119+00 - SEE DWG L108

LANDSCAPE PLAN LEGEND	
	DESCRIPTION
	PROPOSED CONCRETE SIDEWALK
	PROPOSED RETAINING WALL
	NEW SEEDED TURF
	TREE - MAJOR
	TREE - MINOR
	EVERGREEN TREE
	SHRUBS
	TREE PROTECTION FENCE
	LIMIT OF DISTURBANCE

FILE:
DATE:

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GRAPHIC SCALE
20 10 0 20 40
SCALE: 1"=20'-0"
UNIT OF MEASURE: FEET

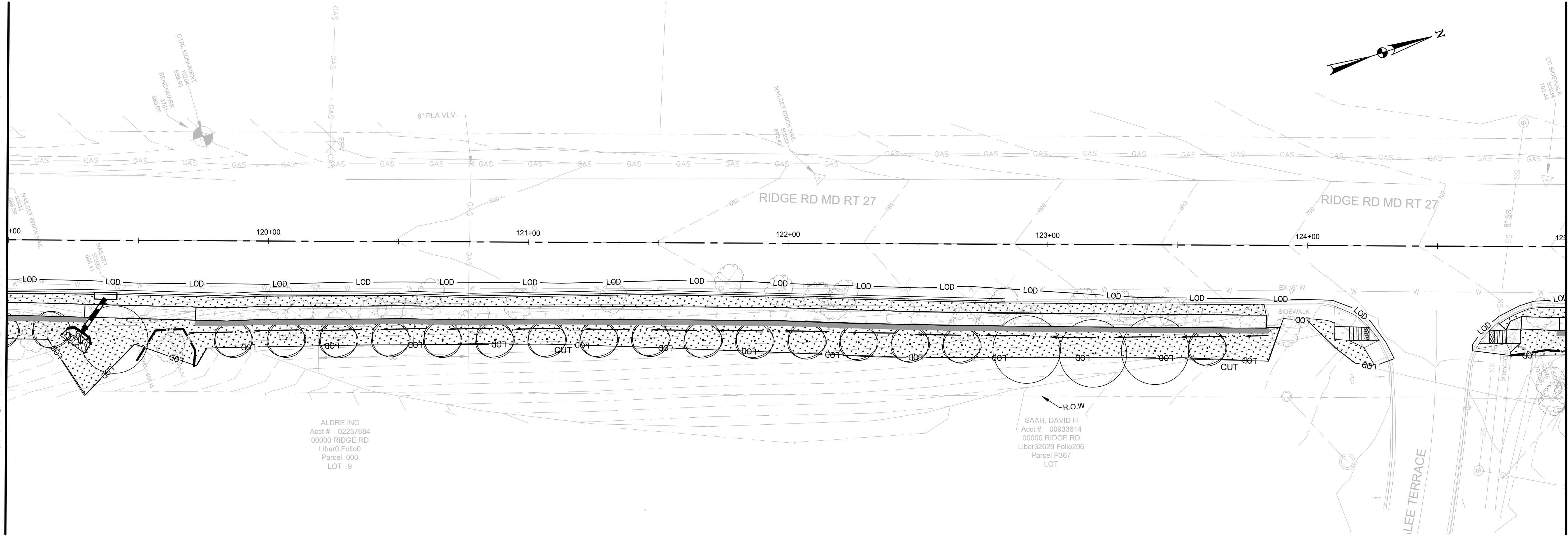
NO.	REVISION	DATE	BY

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

MD 27 SIDEWALK ADDITIONS SOUTH SITE LANDSCAPE PLAN 3 OF 5	
SCALE : AS SHOWN	L107
Project No. : TBC	20 of

SHEET NO.	TOTAL SHEETS
21	---

MATCH LINE STA. 125+00 - SEE DWG. L109



MATCH LINE STA. 120+00 - SEE DWG. L107

LANDSCAPE PLAN LEGEND	
	DESCRIPTION
	PROPOSED CONCRETE SIDEWALK
	PROPOSED RETAINING WALL
	NEW SEEDED TURF
	TREE - MAJOR
	TREE - MINOR
	EVERGREEN TREE
	SHRUBS
	TREE PROTECTION FENCE
	LIMIT OF DISTURBANCE

GRAPHIC SCALE
20 10 0 20 40
SCALE: 1"=20'-0"
UNIT OF MEASURE: FEET

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

MD 27 SIDEWALK
ADDITIONS
SOUTH SITE
LANDSCAPE PLAN
4 OF 5

SCALE : AS SHOWN

L108

4' TALL TREE BARK PROTECTOR: 1/8" STRAND HDPE MESH WITH 3/4"x3/4" OPENINGS. A.M. LEONARD B648 OR APPROVED EQUAL.

ANCHOR BARK PROTECTOR TO GROUND WITH 6" SOD STAPLES (3 PER TREE).

TIE OFF STRAPS PER MANUFACTURER'S DIRECTION. ALLOW KNOT TO EXPAND AS THE TREE GROWS. DO NOT OVER-TIGHTEN STRAPS

3/4" WIDE, FLAT, WOVEN POLY-PROPYLENE STRAPS; DEEPROOT ARBORTIE OR APPROVED EQUAL. LOOP STRAPS AROUND LOWEST BRANCHES OF TREE.

INSTALL TREE SO ROOT FLARE IS EVEN WITH EXISTING ADJACENT GRADE.

BUILD UP SOIL WATERING SAUCER AT EDGE OF TREE PIT.

18" HARDWOOD STAKE, DRIVEN 12" INTO UNDISTURBED GROUND, 2 PER TREE. SECURE STRAP TO STAKE WITH 1" ROOFING NAIL OR KNOT.

2"-3" SHREDDED MULCH, KEEP 6" AWAY FROM ROOT FLARE

REMOVE BURLAP AND WIRE BASKET ENTIRELY TO THE EXTENT FEASIBLE. DO NOT LEAVE WIRE BASKET OR BURLAP IN HOLE.

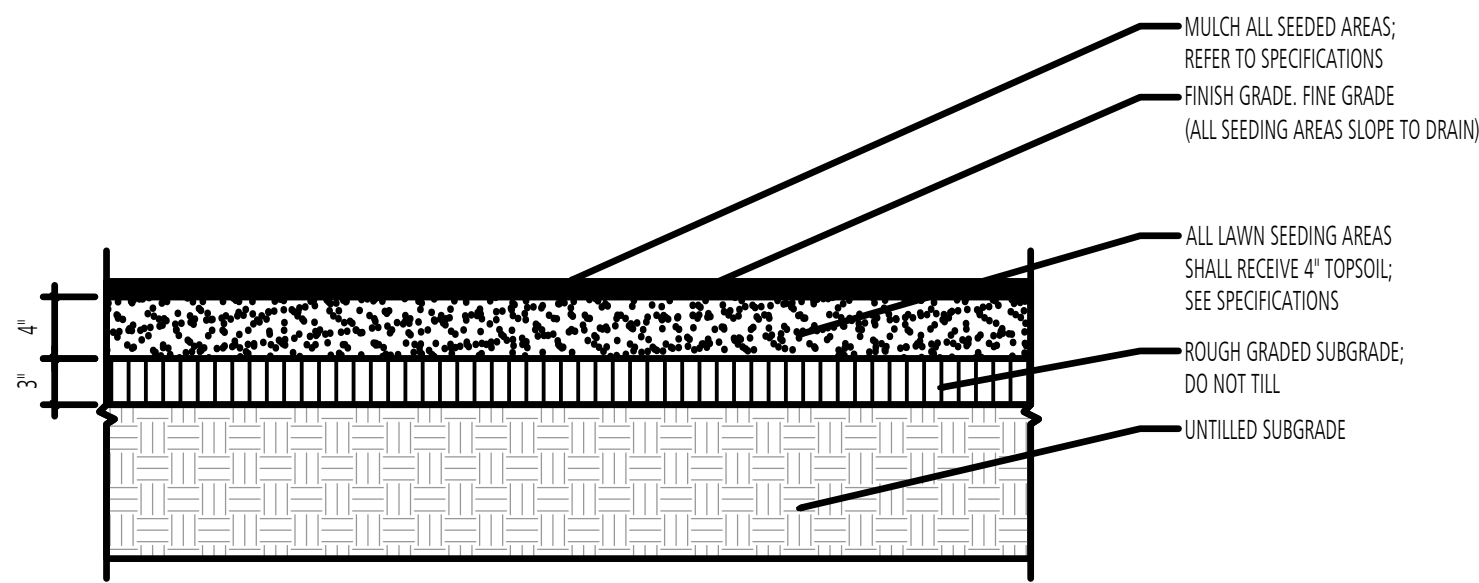
2 TIMES DIAMETER OF ROOT BALL OR CONT.

NATIVE SOIL (SEE SPECS)

UNDISTURBED SOIL

NOTES

1. STAKES AND WIRES MUST BE REMOVED 12 MONTHS AFTER PLANTING.
2. PLANTING HOLE SHALL BE DUG BY BACKHOE OR OTHER MACHINE AND FINISHED BY HAND.
3. IF SURROUNDING SOIL IS COMPACTED AS DETERMINED BY M-NCPPC CONSTRUCTION MANAGER, AN AREA UP TO 5 TIMES THE DIAMETER OF THE ROOT MASS SHALL BE EXCAVATED OR ROTILLATED TO A 1" DEPTH AND SOIL SHALL BE AMENDED.
4. PRUNE ONLY DEAD, DECAYING, BROKEN, CROSSING OR INWARD GROWING BRANCHES. NEVER DAMAGE OR CUT LEADER.



NOTES

- 1.) PRACTICE MAY BE COMBINED WITH SEDIMENT CONTROL FENCING.
- 2.) LOCATION AND LIMITS OF FENCING AND TREE ROOT PRUNING SHOULD BE COORDINATED IN FIELD WITH ARBORIST.
- 3.) BOUNDARIES OF PROTECTION AREA SHOULD BE STAKED PRIOR TO INSTALLING PROTECTIVE DEVICE.
- 4.) ROOT DAMAGE SHOULD BE AVOIDED.
- 5.) PROTECTION SIGNAGE IS REQUIRED.
- 6.) FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

The diagram illustrates a tree protection fence system. It features a grid of 10'x12" weatherproof signs secured to a fence made of 14/14 GA. galvanized wire. The fence is supported by 8' min. metal T fence posts driven 2' into the ground. The spacing between posts is labeled as 10' MAX. BETWEEN POSTS. The height of the fence is labeled as 4' HEIGHT. The fence is secured to metal posts with 2"x4" openings. The fence is also secured to metal posts with 2"x4" openings.

10' MAX. BETWEEN POSTS

4' HEIGHT

8' MIN. METAL T FENCE POSTS
DRIVEN 2' INTO THE GROUND

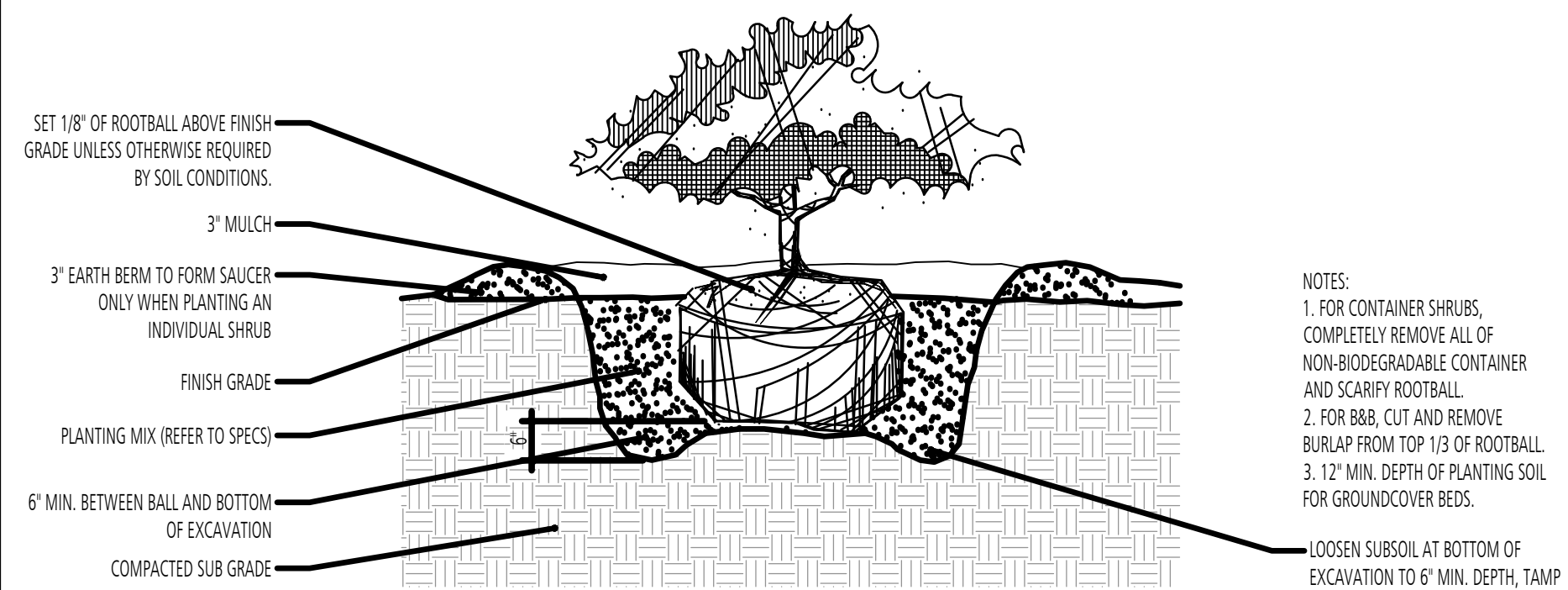
FLAGGING

10'X12" WEATHERPROOF SIGNS
SECURED TO FENCE
@ 30" O.C. (MAX.)

WELDED WIRE FENCE
14/14 GA. GALVANIZED WIRE
2"x4" OPENING

SECURE FENCING TO METAL POSTS

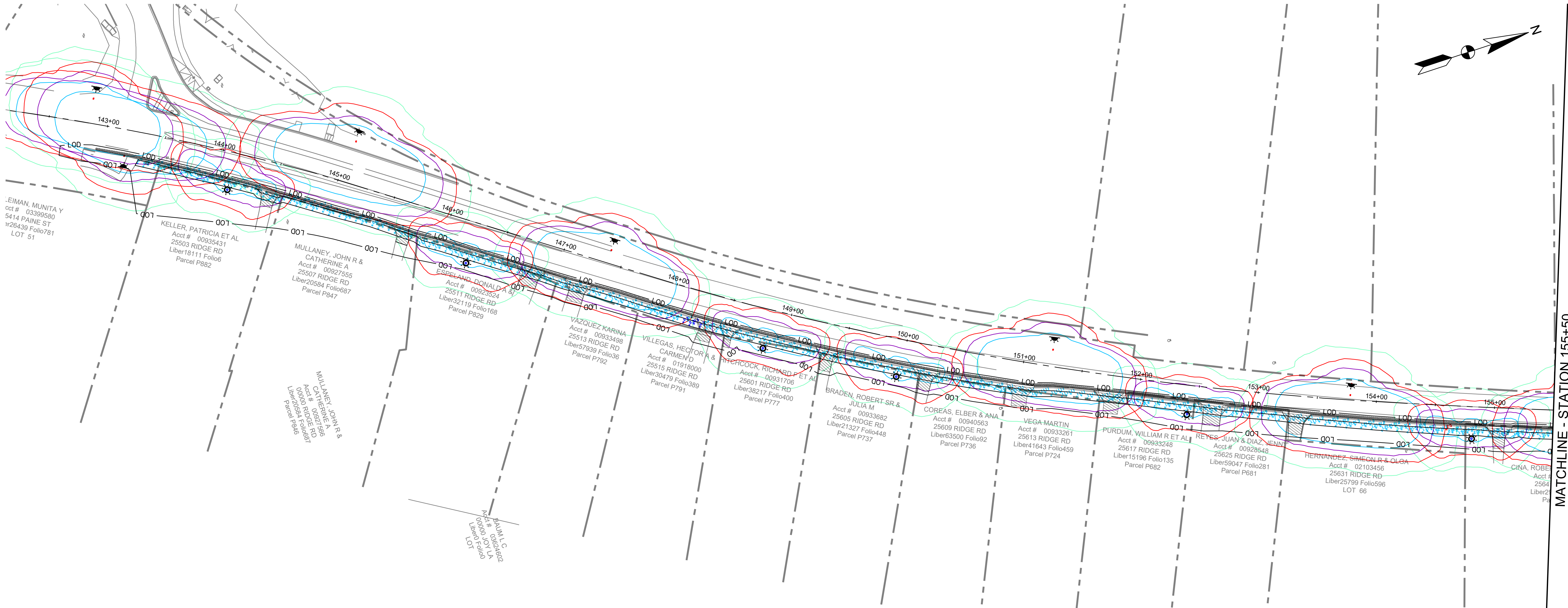
d-tree_planting.dwg
SCALE: NTS



d-10-26_shrub_planting.dwg

SCALE: 1/2" = 1'-0"

Major Trees			Common Name	Size	Root/Container
Symbol	Quantity	Botanical Name			
TBD	18	<i>To Be Determined</i>		2.5" Cal.	B&B
Minor Trees					
TBD	87	<i>To Be Determined</i>		2" Cal.	B&B
Evergreen Trees					
TBD	4	<i>To Be Determined</i>		8' ht.	B&B
Shrubs					
Symbol	Quantity	Botanical Name	Common Name	Size	Root/Container



MATCHLINE - STATION 155+50

CALCULATION ZONE 1	
AVERAGE	1.1 FC
MAX	1.8 FC
MIN	0.6 FC
MAX/MIN	3.0:1
AVERAGE/MIN	1.8:1

CALCULATION ZONE 2	
AVERAGE	1.2 FC
MAX	2.5 FC
MIN	0.3 FC
MAX/MIN	8.3:1
AVERAGE/MIN	4.0:1

CALCULATION ZONE 3	
AVERAGE	1.4 FC
MAX	1.9 FC
MIN	0.6 FC
MAX/MIN	3.2:1
AVERAGE/MIN	2.3:1

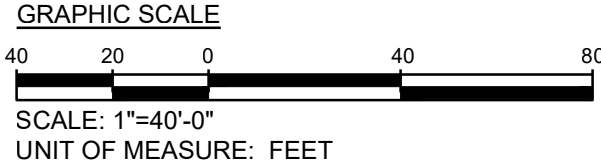
CALCULATION ZONE 4	
AVERAGE	1.1 FC
MAX	2.0 FC
MIN	0.4 FC
MAX/MIN	5.0:1
AVERAGE/MIN	2.8:1

CALCULATION ZONE 5	
AVERAGE	1.1 FC
MAX	2.2 FC
MIN	0.3 FC
MAX/MIN	7.3:1
AVERAGE/MIN	3.7:1

LEGEND:	
	CALCULATION ZONE 1
	CALCULATION ZONE 2
	CALCULATION ZONE 3
	CALCULATION ZONE 4
	CALCULATION ZONE 5

Assumed Existing					
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description
	EX	14	American Electric Lighting	LEDG2 P1 30K XXXXX L2 XXXXX	Autobahn Small P305 Package Roadway Type III 4000K/5000K House side shield (Assumed existing street light)

WASH. GLOBE 12' MOUNTING HEIGHT					
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description
	A	28	Holophane	AWDE3 P20 30K XXXX AL3	Acrylic Washington Gen3, P20 performance package, 3000K CCT 70CRI, Refractive Acrylic Optic with Type 3 distribution



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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Chief, Division of Transportation Engineering

Designed by: AMT Drawn by: AL Checked by: TJW

Date: _____ Date: _____

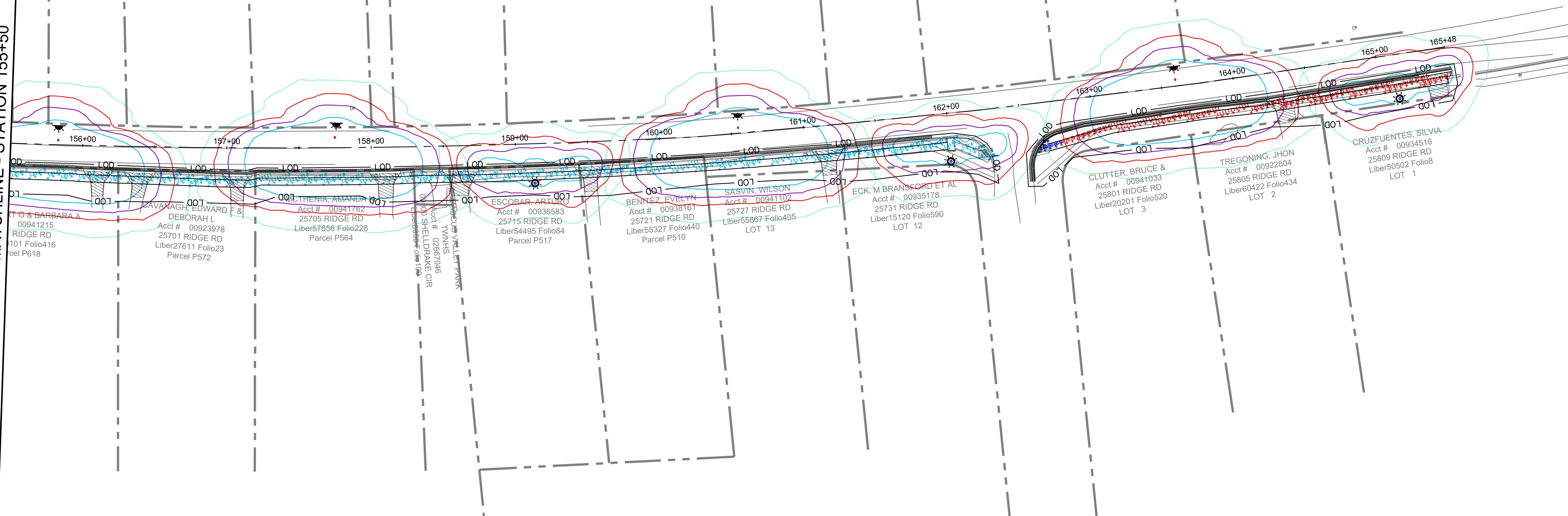
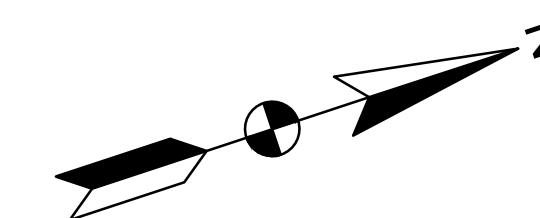
MD 27 SIDEWALK
ADDITIONS

LIGHTING PLAN - NORTH 1 OF 2 (OPTION 1)

SCALE : 1" = 40'

LP101

Project No.: TBD of ---



CALCULATION ZONE 1	
AVERAGE	1.1 FC
MAX	1.8 FC
MIN	0.6 FC
MAX/MIN	3.0:1
AVERAGE/MIN	1.8:1

CALCULATION ZONE 2	
AVERAGE	1.2 FC
MAX	2.5 FC
MIN	0.3 FC
MAX/MIN	8.3:1
AVERAGE/MIN	4.0:1

CALCULATION ZONE 3	
AVERAGE	1.4 FC
MAX	1.9 FC
MIN	0.6 FC
MAX/MIN	3.2:1
AVERAGE/MIN	2.3:1

CALCULATION ZONE 4	
AVERAGE	1.1 FC
MAX	2.0 FC
MIN	0.4 FC
MAX/MIN	5.0:1
AVERAGE/MIN	2.8:1

CALCULATION ZONE 5	
AVERAGE	1.1 FC
MAX	2.2 FC
MIN	0.3 FC
MAX/MIN	7.3:1
AVERAGE/MIN	3.7:1

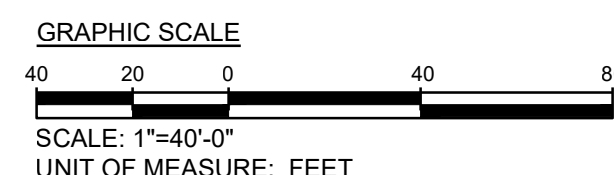
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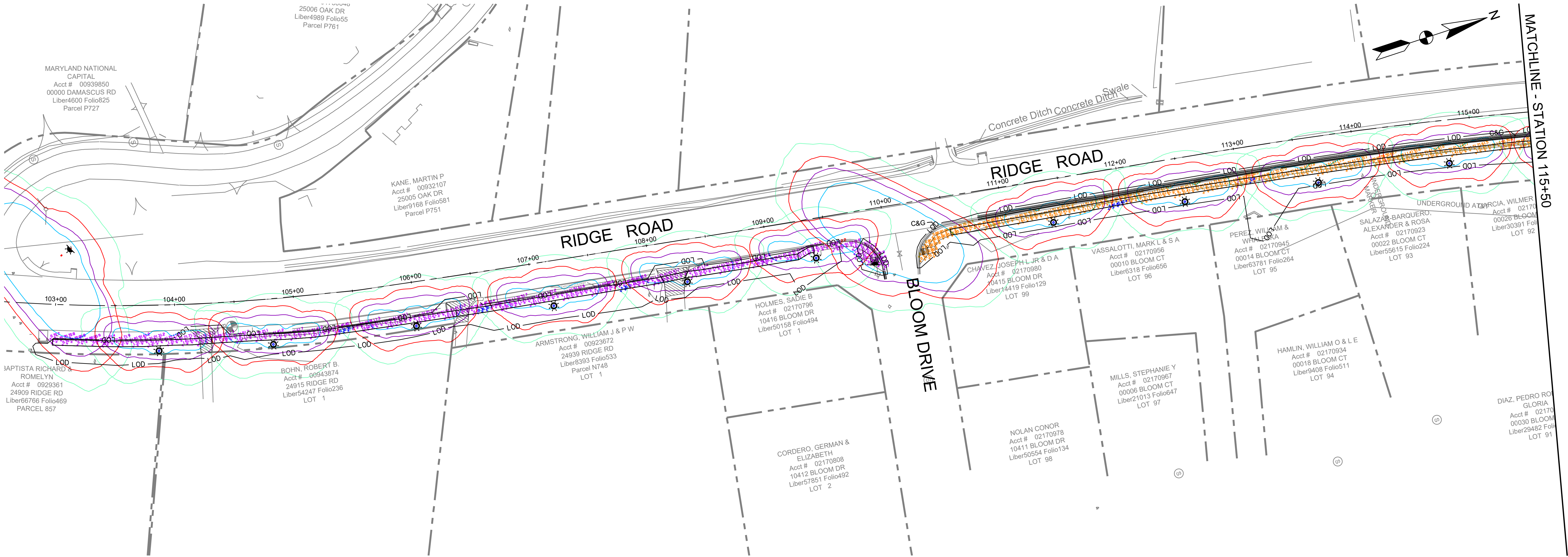
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+1.0	CALCULATION ZONE 2
+1.0	CALCULATION ZONE 3
+1.0	CALCULATION ZONE 4
+1.0	CALCULATION ZONE 5

Assumed Existing					
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description
	EX	14	American Electric Lighting	LEDG2 P1 30K XXXXX LZ XXXXX	Autobahn Small P305 Package Roadway Type III 4000K/5000K House side shield (Assumed existing street light)

WASH. GLOBE 12" MOUNTING HEIGHT					
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description
	A	28	Holophane	AWDE3 P20 30K XXXX AL3	Acrylic Washington Gen3, P20 performance package, 3000K CCT 70CRI, Refractive Acrylic Optic with Type 3 distribution

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND				RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED Chief, Division of Transportation Engineering Date Date									
				Designed by: <u>AMT</u> Drawn by: <u>AL</u> Checked by: <u>TJW</u> Project No.: <u>TBD</u>									
				Scale: _____ 1" = 40'									
				Project No.: <u>TBD</u> 1" = 40'									
				Scale: _____ 1" = 40'									
				Project No.: <u>TBD</u> 1" = 40'									
				Scale: _____ 1" = 40'									
				Project No.: <u>TBD</u> 1" = 40'									
				Scale: _____ 1" = 40'									
				Project No.: <u>TBD</u> 1" = 40'									





CALCULATION ZONE 1	
AVERAGE	1.1 FC
MAX	1.8 FC
MIN	0.6 FC
MAX/MIN	3.0:1
AVERAGE/MIN	1.8:1

CALCULATION ZONE 2	
AVERAGE	1.2 FC
MAX	2.5 FC
MIN	0.3 FC
MAX/MIN	8.3:1
AVERAGE/MIN	4.0:1

CALCULATION ZONE 3	
AVERAGE	1.4 FC
MAX	1.9 FC
MIN	0.6 FC
MAX/MIN	3.2:1
AVERAGE/MIN	2.3:1

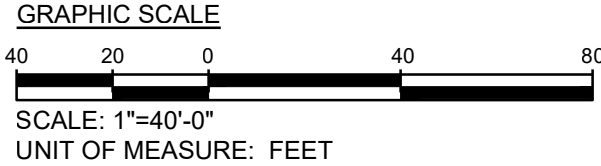
CALCULATION ZONE 4	
AVERAGE	1.1 FC
MAX	2.0 FC
MIN	0.4 FC
MAX/MIN	5.0:1
AVERAGE/MIN	2.8:1

CALCULATION ZONE 5	
AVERAGE	1.1 FC
MAX	2.2 FC
MIN	0.3 FC
MAX/MIN	7.3:1
AVERAGE/MIN	3.7:1

LEGEND:	
+1.0	CALCULATION ZONE 1
+1.0	CALCULATION ZONE 2
+1.0	CALCULATION ZONE 3
+1.0	CALCULATION ZONE 4
+1.0	CALCULATION ZONE 5

Assumed Existing					
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description
	EX	14	American Electric Lighting	LEDG2 P1 30K XXXXX L2 XXXXX	Autobahn Small P305 Package Roadway Type III 4000K/5000K House side shield (Assumed existing street light)

WASH. GLOBE 12' MOUNTING HEIGHT					
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description
	A	28	Holophane	AWDE3 P20 30K XXXX AL3	Acrylic Washington Gen3, P20 performance package, 3000K CCT 70CRI, Refractive Acrylic Optic with Type 3 distribution



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PROFESSIONAL ENGINEERS & LAND SURVEYORS

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Engineers, Architects
Development Consultants
2099 Garthner Road, Rockville, MD, 20850
Phone: 301-590-3939 Fax: 301-946-7174
www.sheladia.com

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section APPROVED	Date
Chief, Division of Transportation Engineering	Date
Designed by: AMT	Drawn by: AL Checked by: TJW

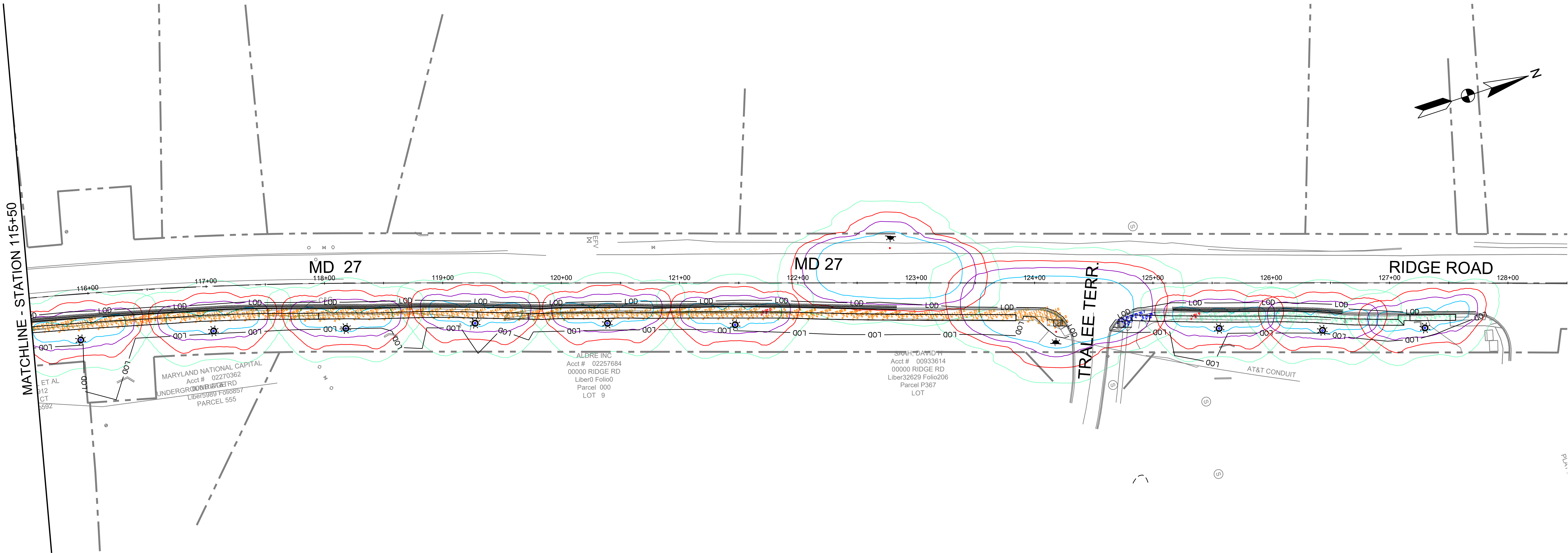
MD 27 SIDEWALK ADDITIONS

LIGHTING PLAN - SOUTH 1 OF 2 (OPTION1)

SCALE : 1" = 40'

Project No.: **TBD** of **---**

LP103



CALCULATION ZONE 1	
AVERAGE	1.1 FC
MAX	1.8 FC
MIN	0.6 FC
MAX/MIN	3.0:1
AVERAGE/MIN	1.8:1

CALCULATION ZONE 2	
AVERAGE	1.2 FC
MAX	2.5 FC
MIN	0.3 FC
MAX/MIN	8.3:1
AVERAGE/MIN	4.0:1

CALCULATION ZONE 3	
AVERAGE	1.4 FC
MAX	1.9 FC
MIN	0.6 FC
MAX/MIN	3.2:1
AVERAGE/MIN	2.3:1

CALCULATION ZONE 4	
AVERAGE	1.1 FC
MAX	2.0 FC
MIN	0.4 FC
MAX/MIN	5.0:1
AVERAGE/MIN	2.8:1

CALCULATION ZONE 5	
AVERAGE	1.1 FC
MAX	2.2 FC
MIN	0.3 FC
MAX/MIN	7.3:1
AVERAGE/MIN	3.7:1

LEGEND:	
+1.0	CALCULATION ZONE 1
+1.0	CALCULATION ZONE 2
+1.0	CALCULATION ZONE 3
+1.0	CALCULATION ZONE 4
+1.0	CALCULATION ZONE 5

Assumed Existing					
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description
	EX	14	American Electric Lighting	LEDG2 P1 30K XXXXX L2 XXXXX	Autobahn Small P305 Package Roadway Type III 4000K/5000K House side shield (Assumed existing street light)

WASH. GLOBE 12' MOUNTING HEIGHT					
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description
	A	28	Holophane	AWDE3 P20 30K XXXX AL3	Acrylic Washington Gen3, P20 performance package, 3000K CCT 70CRI, Refractive Acrylic Optic with Type 3 distribution

NO.

REVISION

DATE

BY

MTG COUNTY DEPT OF TRANSPORTATION ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Chief, Division of Transportation Engineering

Designed by: **AMT**

Drawn by: **AL**

Checked by: **TJW**

MD 27 SIDEWALK ADDITIONS

LIGHTING PLAN - SOUTH 2 OF 2 (OPTION1)

SCALE : 1" = 40'

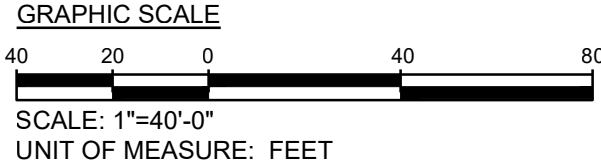
Project No.: **TBD** of **---**

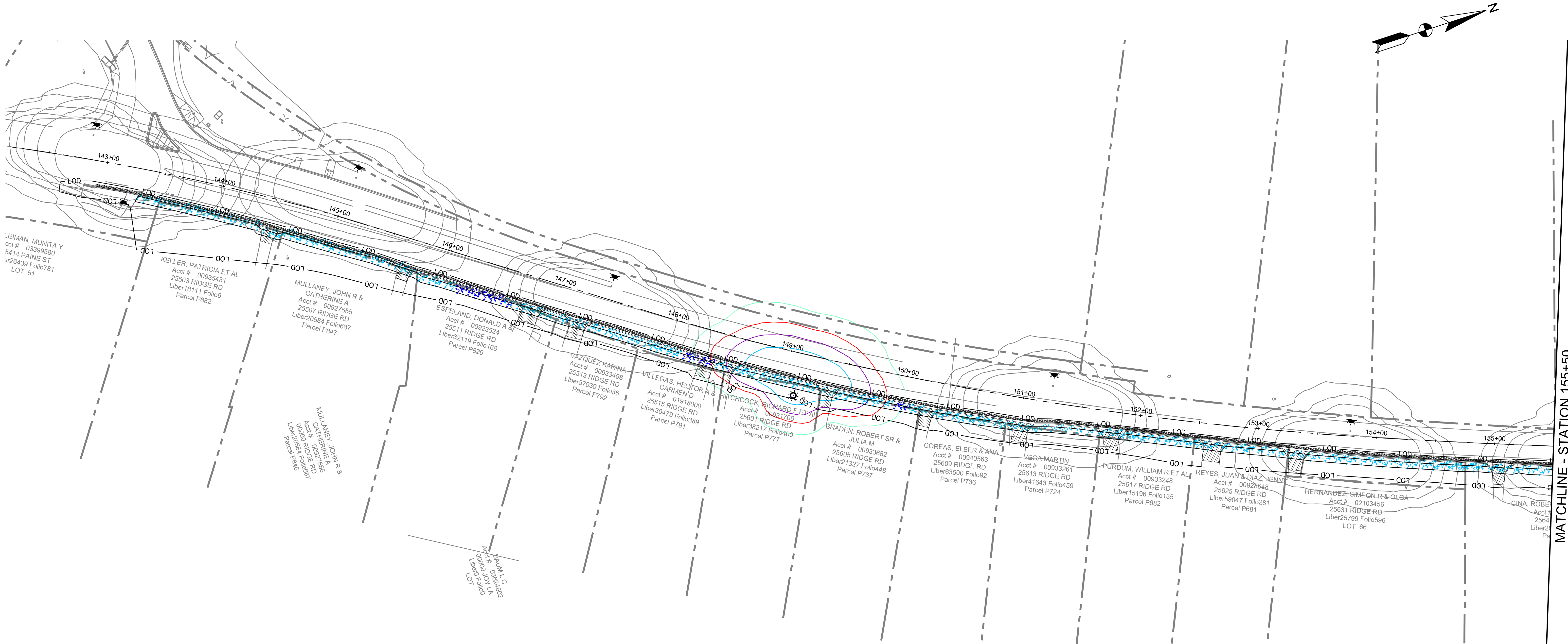
LP104

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MATCHLINE - STATION 155+50

CALCULATION ZONE 1	
AVERAGE	1.2 FC
MAX	2.2 FC
MIN	0.7 FC
MAX/MIN	3.1:1
AVERAGE/MIN	1.7:1

CALCULATION ZONE 2	
AVERAGE	1.0 FC
MAX	2.4 FC
MIN	0.3 FC
MAX/MIN	8.0:1
AVERAGE/MIN	3.3:1

CALCULATION ZONE 3	
AVERAGE	1.4 FC
MAX	2.2 FC
MIN	0.7 FC
MAX/MIN	3.1:1
AVERAGE/MIN	2.0:1

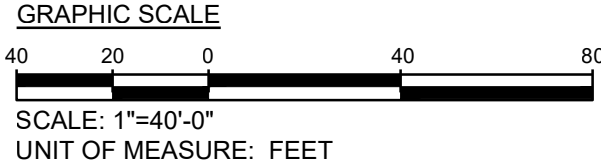
CALCULATION ZONE 4	
AVERAGE	1.2 FC
MAX	2.4 FC
MIN	0.3 FC
MAX/MIN	8.0:1
AVERAGE/MIN	4.0:1

CALCULATION ZONE 5	
AVERAGE	1.0 FC
MAX	2.2 FC
MIN	0.3 FC
MAX/MIN	7.3:1
AVERAGE/MIN	3.3:1

LEGEND:	
+1.0	CALCULATION ZONE 1
+1.0	CALCULATION ZONE 2
+1.0	CALCULATION ZONE 3
+1.0	CALCULATION ZONE 4
+1.0	CALCULATION ZONE 5

Assumed Existing					
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description
	EX	14	American Electric Lighting	LEDG2 P1 30K XXXXX L2 XXXXX	Autobahn Small P305 Package Roadway Type III 4000K/5000K House side shield (Assumed existing street light)

COBRA HEAD 25' MOUNTING HEIGHT					
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description
	B	19	Holophane	AWDE3 P30 30K XXXX AL3	10,000 Lumens 3000K CCT Type II



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www.sheladia.com

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section

APPROVED

Chief, Division of Transportation Engineering

APPROVED

Designed by: **AMT** Drawn by: **AL** Checked by: **TJW**

Date: _____ Date: _____

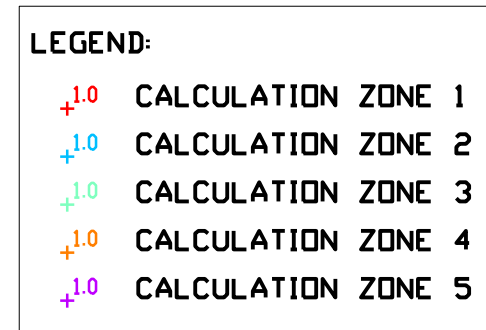
MD 27 SIDEWALK
ADDITIONS

LIGHTING PLAN - NORTH 1 OF 2 (OPTION 2)

SCALE : 1" = 40'

Project No.: **TBD** of **---**

LP105



CALCULATION ZONE 5	
AVERAGE	1.0 FC
MAX	2.2 FC
MIN	0.3 FC
MAX/MIN	7.3:1
AVERAGE/MIN	3.3:1

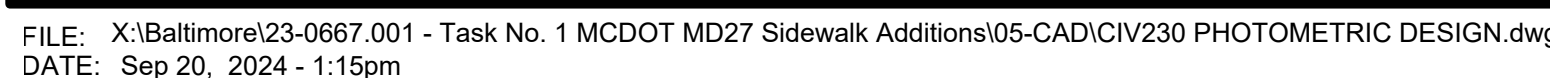
COBRA HEAD 25" MOUNTING HEIGHT					
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description
	B	19	Holophane	AWDE3 P30 30K XXXX AL3	10,000 Lumens 3000K CCT Type II

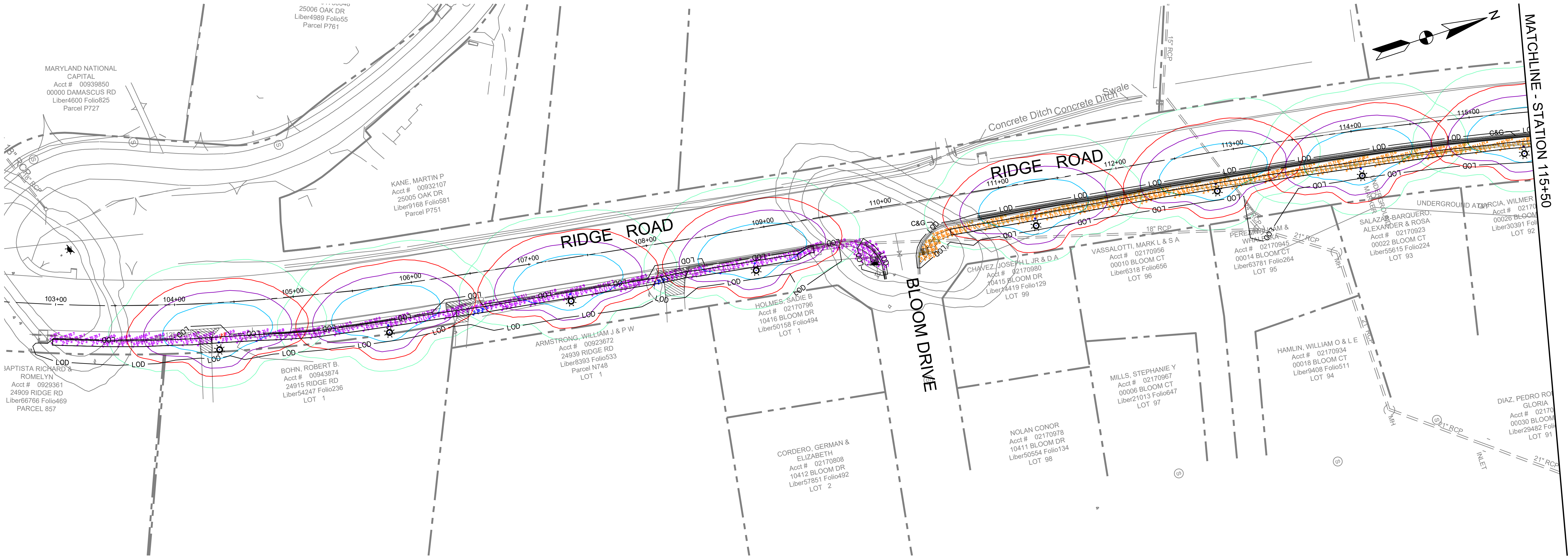
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CALCULATION ZONE 1	
AVERAGE	1.2 FC
MAX	2.2 FC
MIN	0.7 FC
MAX/MIN	3.1:1
AVERAGE/MIN	1.7:1

CALCULATION ZONE 2	
AVERAGE	1.0 FC
MAX	2.4 FC
MIN	0.3 FC
MAX/MIN	8.0:1
AVERAGE/MIN	3.3:1

CALCULATION ZONE 3	
AVERAGE	1.4 FC
MAX	2.2 FC
MIN	0.7 FC
MAX/MIN	3.1:1
AVERAGE/MIN	2.0:1

CALCULATION ZONE 4	
AVERAGE	1.2 FC
MAX	2.4 FC
MIN	0.3 FC
MAX/MIN	8.0:1
AVERAGE/MIN	4.0:1

CALCULATION ZONE 5	
AVERAGE	1.0 FC
MAX	2.2 FC
MIN	0.3 FC
MAX/MIN	7.3:1
AVERAGE/MIN	3.3:1

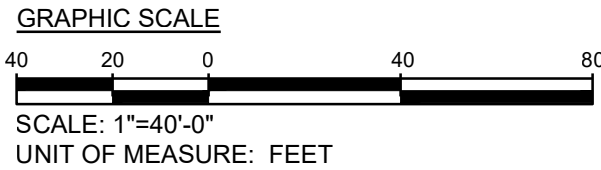
LEGEND:	
+1.0	CALCULATION ZONE 1
+1.0	CALCULATION ZONE 2
+1.0	CALCULATION ZONE 3
+1.0	CALCULATION ZONE 4
+1.0	CALCULATION ZONE 5

Assumed Existing					
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description
	EX	14	American Electric Lighting	LEDG2 P1 30K XXXXX L2 XXXXX	Autobahn Small P305 Package Roadway Type III 4000K/5000K House side shield (Assumed existing street light)

COBRA HEAD 25' MOUNTING HEIGHT					
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description
	B	19	Holophane	AWDE3 P30 30K XXXX AL3	10,000 Lumens 3000K CCT Type II

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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED _____ Date _____

Chief, Division of Transportation Engineering
APPROVED _____ Date _____

Designed by: AMT Drawn by: AL Checked by: TJW

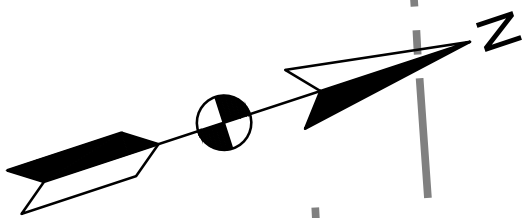
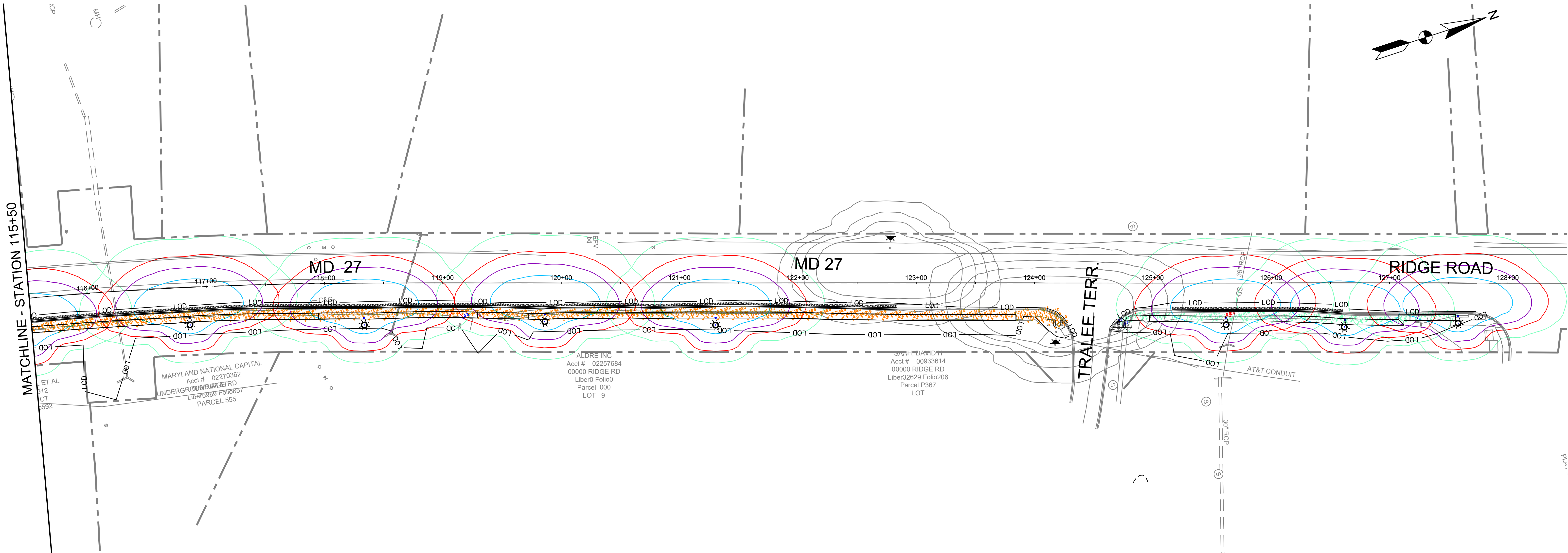
MD 27 SIDEWALK
ADDITIONS

LIGHTING PLAN - SOUTH 1 OF 2 (OPTION 2)

SCALE : 1" = 40'

Project No.: TBD of ---

LP107



CALCULATION ZONE 1	
AVERAGE	1.2 FC
MAX	2.2 FC
MIN	0.7 FC
MAX/MIN	3.1:1
AVERAGE/MIN	1.7:1

CALCULATION ZONE 2	
AVERAGE	1.0 FC
MAX	2.4 FC
MIN	0.3 FC
MAX/MIN	8.0:1
AVERAGE/MIN	3.3:1

CALCULATION ZONE 3	
AVERAGE	1.4 FC
MAX	2.2 FC
MIN	0.7 FC
MAX/MIN	3.1:1
AVERAGE/MIN	2.0:1

CALCULATION ZONE 4	
AVERAGE	1.2 FC
MAX	2.4 FC
MIN	0.3 FC
MAX/MIN	8.0:1
AVERAGE/MIN	4.0:1

CALCULATION ZONE 5	
AVERAGE	1.0 FC
MAX	2.2 FC
MIN	0.3 FC
MAX/MIN	7.3:1
AVERAGE/MIN	3.3:1

LEGEND:	
+	CALCULATION ZONE 1
+	CALCULATION ZONE 2
+	CALCULATION ZONE 3
+	CALCULATION ZONE 4
+	CALCULATION ZONE 5

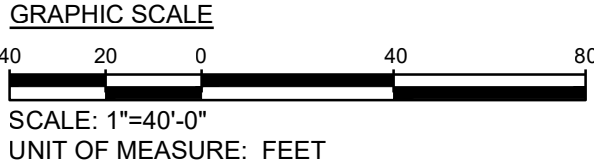
Assumed Existing					
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description
	EX	14	American Electric Lighting	LEDG2 P1 30K XXXXX L2 XXXXX	Autobahn Small P305 Package Roadway Type III 4000K/5000K House side shield (Assumed existing street light)

COBRA HEAD 25' MOUNTING HEIGHT					
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description
	B	19	Holophane	AWDE3 P30 30K XXXX AL3	10,000 Lumens 3000K CCT Type II

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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Chief, Division of Transportation Engineering

Designed by: **AMT** Drawn by: **AL** Checked by: **TJW**

Date
Date

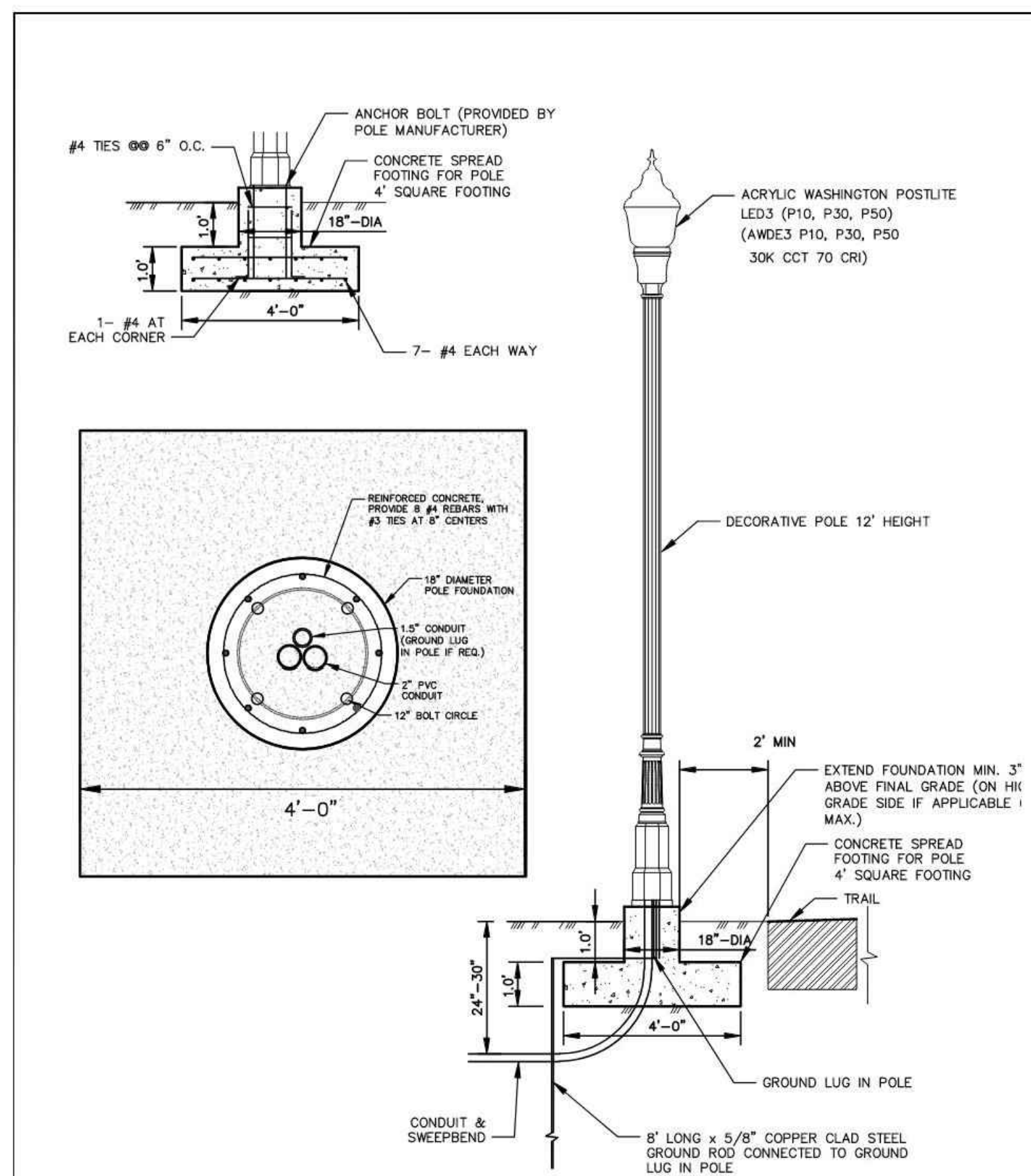
MD 27 SIDEWALK
ADDITIONS

LIGHTING PLAN - SOUTH 2 OF 2 (OPTION 2)

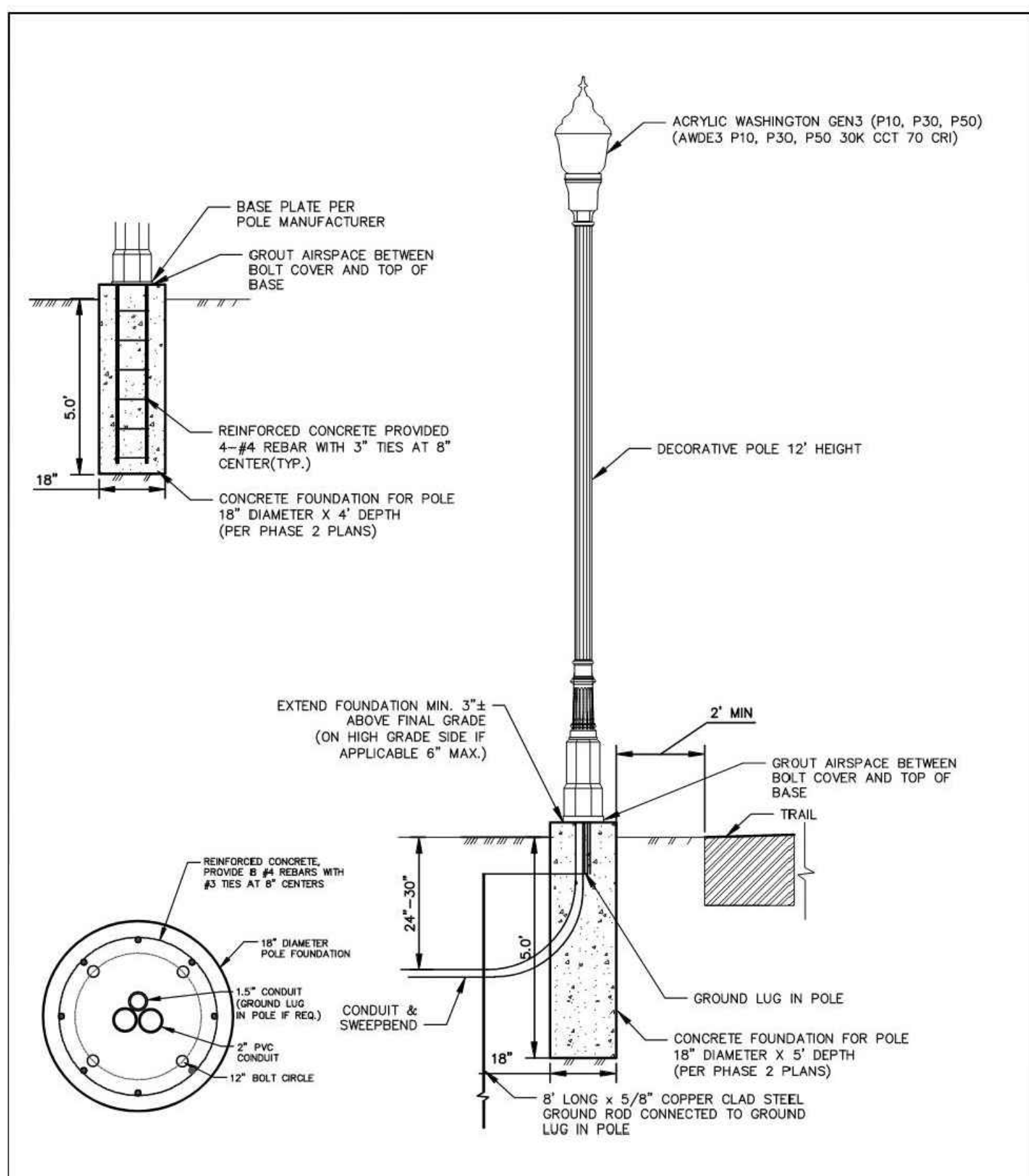
SCALE : 1" = 40'

Project No.: **TBD** of **---**

LP108



 MISS UTILITY DIAL 811 or 1-202-262-7177 or call 800-452-7177 http://www.missutility.net #8 HOURS BEFORE YOU DIG Know what's below. Call before you dig	PROPOSED TRAIL LIGHT LUMINAIRE, POLE & FOUNDATION DETAIL SPREAD FOOTER		 AMT LLC 10 G STREET, NW, SUITE 410, WASHINGTON, DC, 20004 (202) 581-0540 FAX: (202) 581-0540	SCALE AS SHOWN
	MD 27 SIDEWALK LIGHTING			DRAWN AL
	DATE 07/20/2009			DATE 07/20/2009
	10 G STREET, NW, SUITE 410, WASHINGTON, DC, 20004			REMARK 1
JOB NO. 23-067-000		23-067-000		





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LUMINAIRE, POLE & FOUNDATION DETAIL
18" DIAMETER POLE

**MD 27 SIDEWALK
LIGHTING**



AMT LLC

10 G STREET, NE, SUITE 400, WASHINGTON, DC, 20002
TEL: 202-462-1400 FAX: 202-462-3900

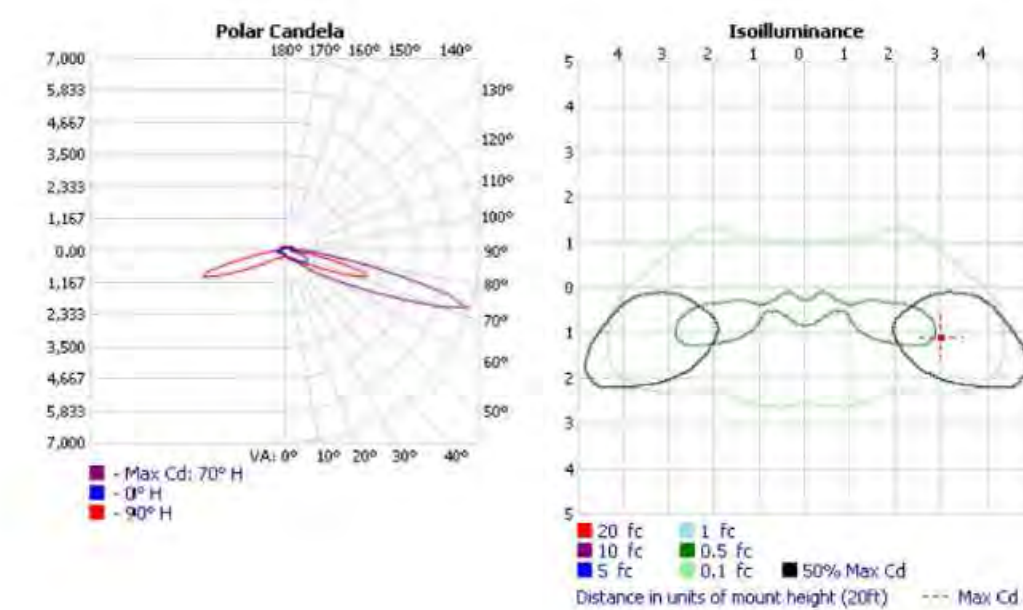
DSCALE	AS SHOWN
DRAWN	AL
DATE	07/30/2024
REVISION	1 OF 1
JOB NO.	23-0667.00

9/19/24, 8:53 AM

AWDE3 P20 30K XXXX AL3

OUTDOOR PHOTOMETRIC REPORT
CATALOG: AW0E3 P20 30K XXXX AL3

Test #: ISF 193461HP34
 Test Lab: SCALED PHOTOMETRY
 Catalog: AW0E3 P20 30K XXXX AL3
 Description: Acrylic Washington Gen3, P20 performance package, 3000K CCT 70CRI, Refractive Acrylic Optic with Type 3 distribution
 Series: AW0E3
 Lamp Output: 20
 Input Wattage: 40
 Luminaire Operating: Total Luminaire Lumens: 5884, absolute photometric Φ
 Luminaire Diameter (Dia: 17.04", H: 24")
 Max Cd: 6,910.3 @ Horizontal: 70°, Vertical: 72.5°
 Roadway Class: MEDIUM, Type III



*Cutoff Classification and efficiency cannot be properly calculated for absolute photometry.

Visual Photometric Tool 1.2.46 copyright 2024, Acuity Brands Lighting.

This Photometric report has been generated using methods recommended by the IESNA. Calculations are based on Photometric data provided by the manufacturer and the accuracy of this Photometric report is dependent on the accuracy of the data provided. End-user environment and application (including, but not limited to, voltage variation and dirt accumulation) can cause actual Photometric performance to differ from the performance calculated using the data provided by the manufacturer. This report is provided without warranty as to accuracy, completeness, reliability or otherwise. In no event will Acuity Brands Lighting be responsible for any loss resulting from any use of this report.

ISF 193461HP34
VISUAL PHOTOMETRIC TOOL

PAGE 1 OF 4

<https://www.visual-3d.com/tools/photometricviewer/default.aspx?id=932324>

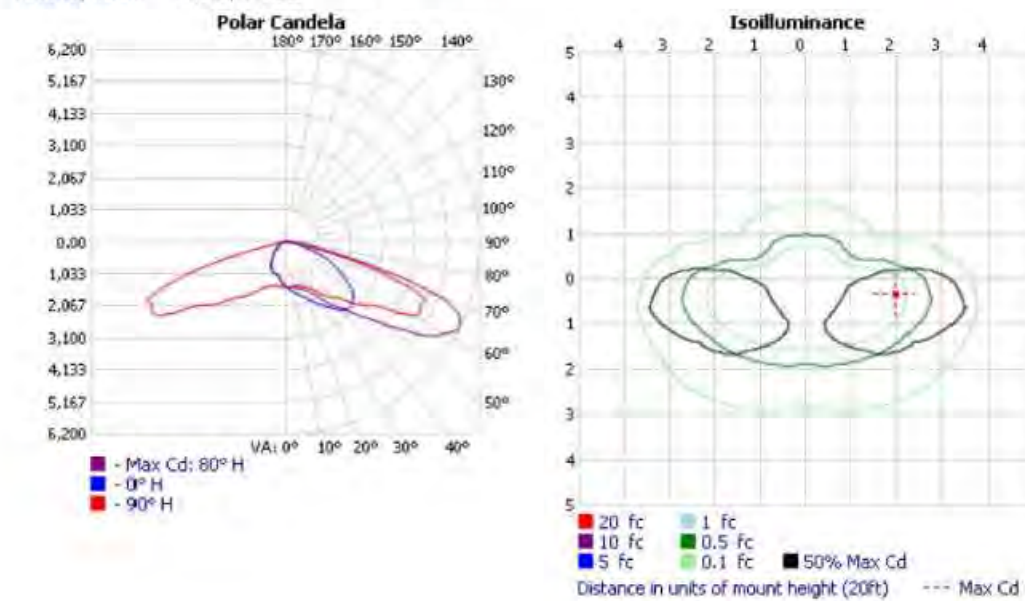
1/4

9/19/24, 8:52 AM

LEDG2 P1 30K XXXXX L2 XXXXX

OUTDOOR PHOTOMETRIC REPORT
CATALOG: LEDG2 P1 30K XXXXX L2 XXXXX

Test #:	4000HP2
Test Lab:	SCALED PHOTOMETRY
Catalog:	LEDG2 P1 30K XXXXX L2 XXXXX
Description:	10,000 Lumens 3000K CCT Type II
Series:	Cobra Head
Lamp Output:	Total luminaire Lumens: 9747, absolute photometry *
Input Wattage:	66
Luminous Opening:	Ellipse (L: 13.44", W: 15.96")
Max Cd:	6,181.7 at Horizontal: 80°, Vertical: 62.5°
Roadway Class:	SHORT, TYPE II



*Cutoff Classification and efficiency cannot be properly calculated for absolute photometry

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 4000HP2
VISUAL PHOTOMETRIC TOOL

PAGE 1 OF 4

<https://www.visual-3d.com/tools/photometricviewer/default.aspx?id=935350>

1/4

POLE AND FOUNDATION
DETAILS FOR LEDG2 COBRA
HEAD ASSUMED TO BE PER
MCDOT IFB#1063092 - SPUN
ALUMINUM ROADWAY,
ROUND, TAPERED,
STREETLIGHT POLES

[illegible]

_____ Chief, Design Section APPROVED		_____ Date
_____ Chief, Division of Transportation Engineering		_____ Date
Designed by: <u>AMT</u>	Drawn by: <u>AL</u>	Checked by: <u>TJW</u>

MD 27 SIDEWALK
ADDITIONS

LIGHTING NOTES AND DETAILS

SCALE : AS SHOWN

LP401

Project No. : TBD of ---