PROJECT MANAGER: James Beall, PE (Fairfax County) - (703) 877-5673
SURVEYED BY, DATE Quantum Spatial - (703) 471-4510, 06/20
DESIGN BY Erik Dull, PE (Dewberry) - (703) 208-1757
SUBSURFACE UTILITY BY, DATE SAM, LLC - (703) 361-6005, 07/20

FOR INDEX OF SHEETS SEE SHEET 1B

THIS PROJECT WAS DEVELOPED UTILIZING VDOT'S ENGINEERING DESIGN PACKAGE (GEOPAK).
GEOPAK Computer Identification No. 108720

SHIRLEY CONTRACTING COMPANY, LLC
Dewberry

FHWA 534 DATA 43103

STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
VA.	NHPP-5A01(810) NHPP-5B01(078) SEE Tabulation Below For Section Numbers	28	0028-029-269 P101, R201, C501 SEE Tabulation Below For Section Numbers	1

SEE SHEET 1J FOR ROADWAY FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA

COUNTY OF FAIRFAX
DEPARTMENT OF TRANSPORTATION

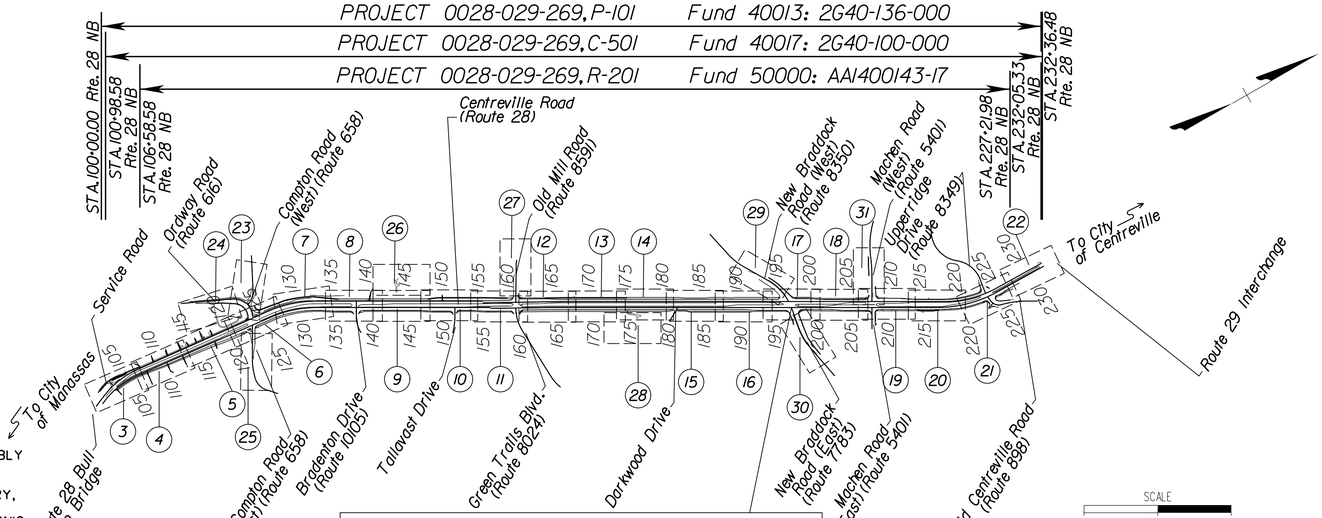
PLAN AND PROFILE OF PROPOSED STATE HIGHWAY FAIRFAX COUNTY DESIGN-BUILD PROJECT CENTREVILLE ROAD WIDENING 90% DESIGN SUBMISSION FEBRUARY 2021

FROM: 100' NORTH OF ROUTE 28 BULL RUN BRIDGE
TO: 0.15 MILES NORTH OF OLD CENTREVILLE ROAD

CONVENTIONAL SIGNS

STATE LINE
COUNTY LINE
CITY,TOWN OR VILLAGE
RIGHT OF WAY LINE
FENCE LINE
UNFENCED PROPERTY LINE
FENCED PROPERTY LINE
WATER LINE
SANITARY SEWER LINE
GAS LINE
ELECTRIC UNDERGROUND CABLE
TRAVELED WAY
GUARD RAIL
RETAINING WALL
RAILROADS
BASE OR SURVEY LINE

LEVEE OR EMBANKMENT
BRIDGES
CULVERTS
DROP INLET
POWER POLES
TELEPHONE OR TELEGRAPH POLES
TELEPHONE OR TELEGRAPH LINES
HEDGE
TREES
HEAVY WOODS
GROUND ELEVATION
GRADE ELEVATION



REFERENCE
NB CENTREVILLE ROAD (RTE. 28) STA. 196+91.16
CONN. NEW BRADDOCK ROAD EAST (RTE. 620) STA. 10+00.00

POPULATION: 1,081,726 (2010 CENSUS)

LA Line was established by CTB actions in 1984 and 2020.

THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY AS AWARDED, HAS BEEN SEALED AND SIGNED USING DIGITAL SIGNATURES AND THE OFFICIAL PLAN ASSEMBLY IN ELECTRONIC FORMAT IS STORED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY, INCLUDING ALL SUBSEQUENT REVISIONS, WILL BE THE OFFICIAL CONSTRUCTION PLANS. FOR INFORMATION RELATIVE TO ELECTRONIC FILES AND LAYERED PLANS, SEE THE GENERAL NOTES.

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH VDOT'S 2016 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL, REV 1 AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.

ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC-5.11U EXCEPT WHERE OTHERWISE NOTED.

THE ORIGINAL APPROVED TITLE SHEET(S), INCLUDING ORIGINAL SIGNATURES, ARE FILED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY. ANY MISUSE OF ELECTRONIC FILES, INCLUDING SCANNED SIGNATURES, IS ILLEGAL AND ENFORCED TO THE FULL EXTENT OF THE LAW.

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	EQUALITIES	LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		BRIDGE PLAN NO.	TYPE PROJECT	DESCRIPTION
					FEET	FEET	MILES	FEET	MILES			
0028-029-269	P-101	NHPP-5A01(810)	PENG	108720	N/A	13,205.33	2.501	13,205.33	2.501	N/A	Preliminary Engineering	From: 100' North of Route 28 Bull Run Bridge
												To: 0.15 Miles North of Old Centreville Road
0028-029-269	R-201	NHPP-5B01(078)	ROWA	108720	N/A	12,063.40	2.285	12,063.40	2.285	N/A	Right of Way	From: 0.125 Miles North of Route 28 Bull Run Bridge
												To: 0.065 Miles North of Old Centreville Road
0028-029-269	C-501	NHPP-5B01(078)	1000	108720	N/A	13,137.90	2.488	13,137.90	2.488	N/A	Construction	From: 100' North of Route 28 Bull Run Bridge
												To: 0.15 Miles North of Old Centrevill Road

Project Lengths are based on Route 28 Northbound Baseline

TIER 2 PROJECT

RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION
DATE — INFRASTRUCTURE INVESTMENT DIRECTOR
DATE — STATE LOCATION AND DESIGN ENGINEER
DATE — CHIEF FINANCIAL OFFICER
DATE — CHIEF ENGINEER

APPROVED FOR RIGHT OF WAY ACQUISITION
DATE — DIRECTOR, FAIRFAX COUNTY DEPT. OF TRANSPORTATION

APPROVED FOR RIGHT OF WAY ACQUISITION
DATE — CHIEF OF POLICY

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION
DATE — INFRASTRUCTURE INVESTMENT DIRECTOR
DATE — STATE LOCATION AND DESIGN ENGINEER
DATE — STATE STRUCTURE AND BRIDGE ENGINEER
DATE — CHIEF FINANCIAL OFFICER

APPROVED FOR CONSTRUCTION
DATE — DIRECTOR, FAIRFAX COUNTY DEPT. OF TRANSPORTATION

APPROVED FOR CONSTRUCTION
DATE — CHIEF ENGINEER

APPROVED
DATE — DIVISION ADMINISTRATOR, FEDERAL HIGHWAY ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION

REVISED

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

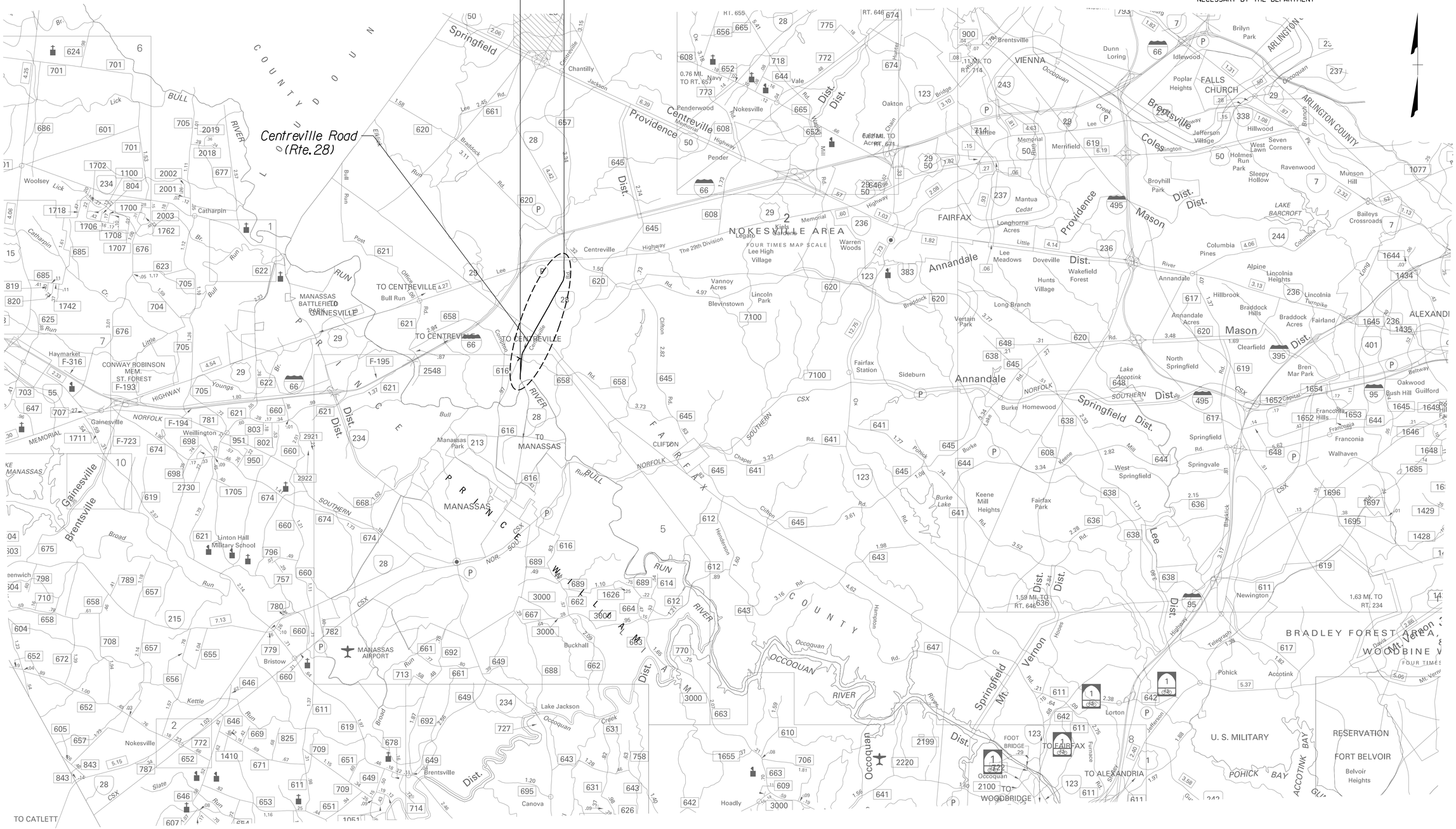
LOCATION MAP

Proposed Project
0028-029-269
P101, R201, C501

Fairfax County, VA

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IA

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



SCALE	PROJECT	SHEET NO.
0 5000' 10000'	0028-029-269	IA

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

INDEX OF SHEETS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IB

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Total Cross Section Sheets - 166 (See Cross Section Index on Sheet X-1)

* Denotes Sheets Submitted for the Advanced TTC Plans
** Denotes Sheets Not Included In this Submission

N.T.S.	PROJECT 0028-029-269	SHEET NO. IB

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

RIGHT OF WAY DATA

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IC

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

City/County: Fairfax County,VA
UPC No.: 108720

Parcel No.	Landowner	Sheet No.	Fairfax County GPIN	Area: (Areas greater than or equal to 1 acre will be shown in acres to 3 decimal places (x.xxx). Areas less than 1 acre will be shown to square feet (x,xxx).)								
				Total	Fee Taking	Prescriptive R/W	Fee Remainder	Easements				
								Permanent	Utility	Temporary	Temporary (Entrances)	Proffers
				Acres Or Sq. Ft.	Acres Or Sq. Ft.	Acres Or Sq. Ft.	Acres or Sq. Ft.	Acres or Sq. Ft.	Acres or Sq. Ft.	Acres or Sq. Ft.	Acres or Sq. Ft.	Yes / No
001	Lewis E.Washington III & Chelsea B. Washington	3,4	0741-01-0003	2.026 Ac.						2,357 Sq. Ft.		
002	Burkett Green & Erma Bush	4	0653-01-0085	1.012 Ac.						1,056 Sq. Ft.		
003	John Tran & Lien Nguyen	4	0653-01-0086	41,003 Sq. Ft.						1,110 Sq. Ft.		
004	Jae Seon Oum & Jae Murphy	4	0653-01-0087	1.900 Ac.						1,861 Sq. Ft.		
005	Lawrence D.Stever & Sandra L.Stever	4,5	0653-01-0088	1.200 Ac.						4,570 Sq. Ft.		
006	Bhupinder Singh & Kawaljit Kaur	5,24	0653-02-0001	43,526 Sq. Ft.				6,368 Sq. Ft.		3,305 Sq. Ft.		
007	Trudy M.Harsh	5,24	0653-02-0002	1.074 Ac.				10,928 Sq. Ft.		5,715 Sq. Ft.		
008	Thuy-Linh Truong	5,24	0653-01-0070	21,780 Sq.Ft.				4,262 Sq. Ft.		3,110 Sq. Ft.		
009	Srinivas Dasari & Padmaja Phani Dasari	5,6,23,24	0653-01-0071A	2.923 Ac.	2.923 Ac.		0					
010	Crofton Commons Home Owners Association	6,7,23	0653-03-F	2.579 Ac.						1,006 Sq. Ft.		
011	Compton Village Home Owners Association	6,7,25	0653-12-S2	4,041 Ac.	2,411 Sq. Ft.		3.986 Ac.					
012	Crofton Commons Home Owners Association	7	0653-03-C	1.489 Ac.	1,428 Sq. Ft.		1.456 Ac.			1,907 Sq. Ft.		
013	Crofton Commons Home Owners Association	7,8	0653-03-G	1.868 Ac.	2,691 Sq. Ft.		1.806 Ac.			447 Sq. Ft.		
014	W.Louis Terrell & Carole W.Terrell	8	0653-01-0049A	29,198 Sq. Ft.	2,744 Sq. Ft.		26,454 Sq. Ft.					
015	The Salvation Army	7,8	0653-01-0040A	5.000 Ac.	45 Sq. Ft.		4.999 Ac.			654 Sq. Ft.		
016	Philip E.Cox & Alison L.Cox	8,9,26	0653-01-0026A	23,135 Sq. Ft.						3,235 Sq. Ft.		
017	Philip E.Cox & Alison L.Cox	9,26	0653-01-0025	17,768 Sq. Ft.						398 Sq. Ft.		
018	AJay Bargoti	9,26	0653-01-0024	1.391 Ac.	1.391 Ac.		0					
019	Compton Village Home Owners Association	8,9,10	0653-12-C	2.047 Ac.				1,831 Sq. Ft.		761 Sq. Ft.		
020	Ganga B.Bethi	9,10,26	0653-01-0018	4.552 Ac.	33,771 Sq. Ft.		3.777 Ac.			3,632 Sq. Ft.		
021	Compton Village Home Owners Association	10	0653-12-L	5,876 Sq. Ft.	102 Sq. Ft.		5,774 Sq. Ft.			134 Sq. Ft.		
022	Old Mill Community Association, Equitable Federal Savings Bank	11,27	0653-10-A	1.953 Ac.	2,158 Sq. Ft.		1.904 Ac.			5,213 Sq. Ft.		
023	Old Mill Community Association, Equitable Federal Savings Bank	11,12,13,27	0653-09-B	4.736 Ac.	7,898 Sq. Ft.		4,555 Ac.	409 Sq. Ft.		11,115 Sq. Ft.		
024	Old Mill Community Association, Equitable Federal Savings Bank	13,14	0653-09-F1	2.279 Ac.	7,989 Sq. Ft.		2,096 Ac.	52 Sq. Ft.		9,277 Sq. Ft.		
025	Centreville Trustees of Church United Methodist	14,15	0651-01-0014A	2.110 Ac.	14,158 Sq. Ft.		1,785 Ac.	6,343 Sq. Ft.		12,276 Sq. Ft.		
026	School Board of Fairfax County	11,12,13,14,28	0653-04-A	13,126 Ac.				488 Sq. Ft.		5,311 Sq. Ft.		
027	Surendra Berry & Shashi Berry	14,28	0651-01-0039	2.511 Ac.	2.511 Ac.		0					
028	Thomas Q.Pham & Thu K.Nguyen	14,15	0651-16-0042	13,719 Sq. Ft.								
029	Maria I.Vasquez	15	0651-01-0008AI	9,959 Sq. Ft.	1,520 Sq.Ft.		8,439 Sq. Ft.	2,167 Sq.Ft.		1,867 Sq. Ft.		
030	Centreville Road,LC	15	0651-01-0008B	43,355 Sq. Ft.	436 Sq.Ft.		42,919 Sq. Ft.	343 Sq.Ft.		1,253 Sq. Ft.		
031	Hien Binh Tran & Linh My Huynh	15	0651-01-0013	31,433 Sq. Ft.						1,581 Sq. Ft.		
032	Compton Village Home Owners Association	15,16	0651-15-A	6.883 Ac.						6,777 Sq. Ft.		
033	EPT Nineteen,Inc.	17,18,19,21	0652-01-0028	12.463 Ac.	6,111 Sq. Ft.		12.323 Ac.			6,708 Sq. Ft.		
034	Colonial Pipeline Company	17,30	0652-02-0002A	34,236 Sq. Ft.						882 Sq. Ft.		
035	Colonial Pipeline Company	17,18,30	0652-02-0001B	42,255 Sq. Ft.						5,864 Sq. Ft.		
036	CentreMed Owner,LLC	17,18,19,30	0652-01-0014A	5.100 Ac.	40 Sq. Ft.		5.099 Ac.			39 Sq. Ft.		
037	Asher View Community Association	19,20,31	0652-1301-A	3.862 Ac.	2,456 Sq. Ft.		3.805 Ac.	433 Sq.Ft.		3,503 Sq. Ft.		
038	Company of Virginia Branch Banking and Trust	19,31	0652-01-0014E	36,914 Sq. Ft.	23 Sq. Ft.		36,891 Sq. Ft.			11,515 Sq Ft.		
039	Fairfax County Redevelopment and Housing Authority	20,21	0544-01-0073C	1.944 Ac.	2,802 Sq. Ft.		1.850 Ac.			3,210 Sq.Ft.		
040	North Fairfax Drive Investments,LLC	20,21	0652-01-0005	1.132 Ac.				221 Sq. Ft.		2,481 Sq.Ft.		
041	SH Park Associates,LLC	20,21	0544-05-0002M	1.895 Ac.	18 Sq. Ft.		1.895 Ac.			1,018 Sq. Ft.		
042	Sheila Marie Lewis	10	0653-12050002	20,127 Sq. Ft.						573 Sq. Ft.		
043	Winding Ridge Home Owners Association	30	0652-11-A	2.572 Sq. Ft.	47 Sq. Ft.		2,525 Sq. Ft.			1,712 Sq. Ft.		
044	Singletons Grove Home Owners Association	30	0652-01-0015	18,439 Sq. Ft.						791 Sq. Ft.		
045	Singletons Grove Home Owners Association	30	0652-02-A3	6.536 Ac.						776 Sq. Ft.		
046	Cindy Thuy Truong	24	0653-02-0003	35,106 Sq. Ft.						581 Sq. Ft.		
047	Janice A.Mitchell	24	0653-02-0004	20,045 Sq. Ft.								
048	William J.Palermo & Lori E.Palermo	4	0741-01-0005	4,600 Ac.						1,103 Sq. Ft.		
049	Bryan A.Skokan	4	0653-01-0091	27,647 Sq. Ft.								
050	7015 Centreville LLC	4,5	0653-01-0090	1.432 Ac.								
051	Northern Virginia Regional Park Authority	3	0741-01-0016	13,673 Ac.								
052	Billy Ray Wu-Rorrer,Emily Renee Wu-Rorrer,Tzy-Woei Wu,& Fu-Mei Lin Wu	3	0741-01-0013	19,994 Sq. Ft.								
053	Asher View Community Association	20	0652-1305-A	1.504 Ac.				416 Sq. Ft.		240 Sq Ft.		
054	Centre Village Home Owners Association	20	0652-16-A	3.361 Ac.						4,299 Sq. Ft.		
055	Capital Worship Centre LLC	23	0653-01-0072	41,064 Sq. Ft.						366 Sq. Ft.		

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
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SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL & SEQUENCE OF CONSTRUCTION

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101, R201, C501	IK

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

GENERAL NOTES

1. The traffic control devices and safety measures shall be in conformance with the following and the most recent revisions thereto:
   A. The Manual on Uniform Traffic Control Devices, 2009 (Inc. Revisions thru 05/2012)
   B. The Virginia Work Area Protection Manual (WAPM), 2011 (thru Revision 2 dated 9/1/2019)
   C. The Virginia Road and Bridge Standards, 2016 (Inc. All Revisions)
   D. The Virginia Road and Bridge Specifications, 2016 (Inc. All Revisions)
2. Unless otherwise approved or directed by the engineer, the contractor shall plan and prosecute the work in accordance with the following sequence of construction and temporary traffic control plans.
3. It is not the intent of the Sequence of Construction plan to enumerate every detail which must be considered in the construction of each stage, but only to show the general handling of traffic.
4. All areas excavated below existing pavement surface and within the clear zone, of the conclusion of each workday, shall be back filled as required by the VAWPM where backfill is required. It shall form an approximate 6:1 wedge, against the existing pavement surface for the safety and protection of vehicular traffic.
5. Traffic barrier service shall be installed and removed so as not to present any blunt end or hazard to the motoring public.
6. The sequence of construction / traffic control plans show only the major traffic patterns necessary to construct this project. The contractor will also be responsible for daily traffic control such as lane closures, flagging, etc. to properly maintain traffic throughout the project.
7. Access must be maintained at all times for all existing local streets, driveways, and adjacent properties affected by the construction, unless otherwise shown on plans. The contractor shall install "Rough Road" and "Bump" warning signs per the VWAPM as necessary for temporary driveway and local street access.
8. The clear zone shall be free of stored materials and parked equipment (for clear zone widths, refer to the Virginia Work Area Protection Manual-Appendix A). Where material is stored or vehicles are parked behind guardrail, a minimum offset of 5' shall be maintained from the face of the guardrail to any material, equipment or vehicles. Sight distances at intersections should not be impacted by materials, equipment, or traffic control devices. Nothing should be stored within the temporary barrier manufacturer's recommended deflection zone or within 200' downstream of a barrier opening.
9. When implementing a new traffic pattern, all existing pavements markers (and markers) in conflict with the new traffic pattern shall be completely removed and/ or covered to not conflict new markings and/or markers for the new traffic pattern.
10. Advance signing, traffic barrier service concrete, and any other traffic control devices shall be installed prior to the beginning of each stage of construction and shall be removed as necessary prior to the next stage.
11. Pinned barrier service (MB-11A) will be required adjacent to open cut excavations greater than 4' within 2' of the back of the barrier, on bridge decks, and when fixed objects are within the temporary barrier manufacturer's recommended clear zone.
12. See Sheet 1S(1) -1S(3) for TTC typical sections and temporary pavement sections.
13. Temporary lane widths shall be no less than 11 feet and shoulder widths shall be no less than 1 foot on Route 28.
14. The contractor shall install 48"x48" diamond shaped "Construction Entrance" signs in advance of construction entrances. All construction Entrances shall be installed per the Virginia Work Area Protection Manual requirements.
15. On Route 28, the contractor shall install temporary pavement markers per Figure TTC 60.0 of the WAPM in lane shifts and per Standard PM-8 in all other areas that lanes have been re-aligned. Also, the contractor shall remove the raised pavement markers where lanes have been re-aligned.
16. For Route 28 and all other roadways the contractor shall use, Type D Class II or Type D Class III removable tape on final surfaces, and Type A paint for all other conditions. Markings in conflict with temporary markings for any given stage shall be eradicated or completely covered with Type E tape.
17. All long-term temporary signs shall be installed on breakaway wood posts or breakaway square tube steel sign posts unless installed behind barrier temporary sign stands may be used.
18. Signs are only shown for major construction stages. Additional signs may be required to provide positive guidance for interim stages or changes to construction sequence.
19. Unless otherwise shown, the contractor shall maintain and relocate (if necessary) all existing regulatory, warning, and guide signs until the new facilities are opened. As facilities are open to final configurations, the contractor shall install traffic control devices per the signing and marking plans.

GENERAL NOTES (Cont.)

20. Signs to be temporarily covered shall be completely covered by a non-transparent material and maintained.
21. See Transportation Management Plan (TMP) on the Sheet 1U series for the Public Communications Plan, Transportation Operations Plan, Incident Management Plan, and additional temporary traffic control information.
22. Active local streets within the project limits shall not be used for equipment and material storage, except for during construction on the particular local street.
23. Contractor shall maintain positive drainage during construction phasing.
24. All existing marked pedestrian crossings shall be maintained throughout construction unless otherwise noted.
25. Access to closed sidewalks, trails, and curb ramps shall be physically blocked using orange safety fence or TY. 3 barricade.
26. See Transportation Management Plan (TMP) Sheet 1U series for the Typical Traffic Control Figures in the VA Work Area Protection Manual for daily short-term lane and shoulder closures.
27. See Erosion and Sediment Control Plans (Sheet 2E-2H Series) for temporary drainage.
28. See Sheet 1T series for temporary traffic signal plans.
29. The contractor shall be responsible for coordinating through FCDOT for Fairfax County Police and/or Virginia State Police service during Temporary Traffic Control operations involving lane closures and/or rolling lane closures, and any other operation as covered in Appendix C of the Virginia Work Area Protection Manual.
30. The contractor shall maintain existing lighting during construction and to the maximum extent possible maintain existing roadway lighting levels.
31. The existing pavement edge lines may not necessarily indicate the edge of the mainline pavement structure, and it is the contractor's responsibility to identify the limits of the existing full-strength mainline pavement prior to saw-cutting the pavement or setting barrier for widening of existing pavement.
32. Temporary Lane closures shall be implemented per the hours specified in Table 1 on page 18 (Sheet 1U(6)) of the Transportation Management Plan (TMP). See the TMP (Sheet 1U series) for the lane closure request procedure and requirements.
33. Type III barricades with R11-2 signs mounted on front of barricades shall be 8' wide. See Section 6F.76 of the VA Work Area Protection Manual for mounting R11-2 signs on Type III Barricades.
34. The contractor shall use a barrier clamp device for construction signs to be installed on temporary barrier (detail on Sheet 1S(3). The ground mount or temp sign stands behind the barrier.
35. The contractor shall maintain existing bus stops during construction unless otherwise approved by the transit operator(s). The contractor is to coordinate impacts to existing bus stops (such as bus stop relocation) with the transit operator(s) prior to impacts.
36. If through field measurements, existing pavement width is sufficient to not require a shift for future construction no temporary work will be required.
37. If existing pavement markings are impacted they will be replaced with Type A paint.
38. The contractor shall ensure tack is installed in conformance with VDOT standards and specifications at the interface between existing pavement and temporary widening.
39. Attenuators may be eliminated assuming barrier flare rate and clear zone requirements are met.
40. Temporary concrete barrier may be used in lieu of temporary guardrail depicted in plans, if the temporary barrier is located on a level stable base, and temporary barrier deflection criteria is met.

STAGE 1B CONSTRUCTION

PURPOSE: Shift traffic onto the temporary pavement constructed in Stage 1A. Construct permanent roadway widening work on the outside of northbound Route28 from Compton Road/Ordway Road to Old Mill Road/Green Trails Boulevard. The inside permanent roadway for northbound is to be constructed from Old Mill Road/Green Trails Boulevard to New Braddock Road. Southbound Route 28 the permanent widening is to be constructed along the inside of the existing lanes. Temporary pavement is be added along the inside of southbound to prepare for Stage 3A lane shifts and permanent construction activities. See sheets 1M(1) -1M(13).

The connections at Tallavast Drive and Bradenton Drive are also be constructed in this stage. The new shared use path along northbound Route 28 is to be constructed while maintaining the existing path at all times from the beginning of entrance L to Old Mill Road/Green Trails Boulevard.

Install signs, channelizing devices, and all other temporary traffic controls as shown on Stage 1B TTC plans (Sheet 1M Series).

Once Stage 1B paving is complete, channelizing devices and associated shoulder closure signs may be removed.

STAGE 2 CONSTRUCTION

PURPOSE: During off-peak lane closure operations, variable depth asphalt buildup will be constructed within the limits of the Stage 1B widening and the portion of existing pavement that will accommodate Stage 3A travel lanes. This includes the upper lifts of asphalt paving on the Stage 1B widened pavement concurrent with asphalt buildup on the existing lanes. See sheets 1N(1)-1N(11).

Upon completion of each off-peak overlay operation, lanes will be shifted from the Stage 1B configuration into the Stage 3A configuration.

STAGE 3A CONSTRUCTION

PURPOSE: Shift Route 28 traffic onto permanent widening constructed in Stage 1B during Stage 2 overlay operations. Northbound traffic is to be shifted to the east from Compton Road/Ordway Road to Old Mill Road/Green Trails Boulevard along with barrier being installed on the westbound side of northbound 28. From Old Mill Road/Green Trails Boulevard to Upperridge Drive, northbound Route 28 traffic is to be shifted to the west to construct the permanent roadway widening. Southbound Route 28 traffic will be shifted towards the median. See sheets 1P(1)-1P(11).

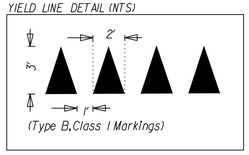
Connections to Compton Road West, Old Mill Road, New Braddock Road, Machen Road, and the eastern part of Ordway Road are to be completed. The western side of Upperridge Drive is to be completed.

The shared use path along NB Route 28 is to be constructed from Old Mill Road to Upperridge Road, while maintaining the existing trail.

STAGE 3B CONSTRUCTION

PURPOSE: Southbound traffic is to remain in the same location from Stage 3A. Northbound traffic is to remain in the same location from Stage 3A from Compton Road/Ordway Road to Old Mill Road/Green Trails Boulevard. Northbound Route 28 traffic is to be shifted to the east from New Braddock Road to Upperridge Drive to construct the inside permanent roadway widening. The western part of Ordway Road and New Braddock Road is to be constructed. The median along Upperridge Road is to be constructed. See sheets 1R(1), 1R(8)-1R(11).

YIELD LINE DETAIL (NTS)



(Type B, Class I Markings)

Pavement Marking Legend

DESCRIPTION				WHITE	YELLOW
DASHED LINE - 4"	10'	30'	10'	A	
DASHED LINE - 6"	10'	30'	10'	S	
DASHED LINE - 8"	10'	30'	10'	W	
DASHED LINE - 12"	10'	30'	10'	T	
SOLID LINE - 4"				B	H
SOLID LINE - 6"				N	O
SOLID LINE - 8"				C	I
SOLID LINE - 12"				D	L
SOLID LINE - 24"				E	J
DOTTED LINE - 4"	2' DOT-6' SPACE			F	R
DOTTED LINE - 8"	2' DOT-6' SPACE			V	X
DOTTED LINE - 4"	3' DOT-9' SPACE			P	
DOTTED LINE - 6"	3' DOT-9' SPACE			Y	
DOTTED LINE - 8"	3' DOT-9' SPACE			M	
DOTTED LINE - 12"	3' DOT-9' SPACE			U	
DBL SOLID LINE - 4"				Z	K
DBL SOLID LINE - 4"	10'	30'	10'		Q
PVT MKG MESSAGE				G	

NOTE: DUE TO THE CURRENT STATE OF EMERGENCY DECLARED BY THE GOVERNOR, ALL WORK ZONE TRAFFIC CONTROL CERTIFICATIONS SCHEDULED TO EXPIRE BETWEEN MARCH AND DECEMBER 2020, ARE GRANTED A ONE-YEAR EXTENSION FROM THEIR ORIGINAL EXPIRATION DATE.
SOURCE:
HTTP://WWW.VIRGINIADOT.ORG/BUSINESS/TRAFFICENG-WZS.ASP

WORK ZONE TRAINING CERTIFICATION

Commonwealth of Virginia
Virginia Department of Transportation
VDOT

VERIFICATION OF COMPLETION OF
ADVANCED WORK ZONE TRAFFIC CONTROL TRAINING

This is to verify that **Gerard Mrykalo** has successfully completed training and an examination by the Department on the proper practices and methods for the installation, maintenance and removal of temporary traffic control devices.

Date: 8/25/2016
State Traffic Engineer
Verification No. : 082516042
Expiration Date: 8/31/2020

INDEX:

PROJECT	SHEET NO.
0028-029-269	IK

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 1B

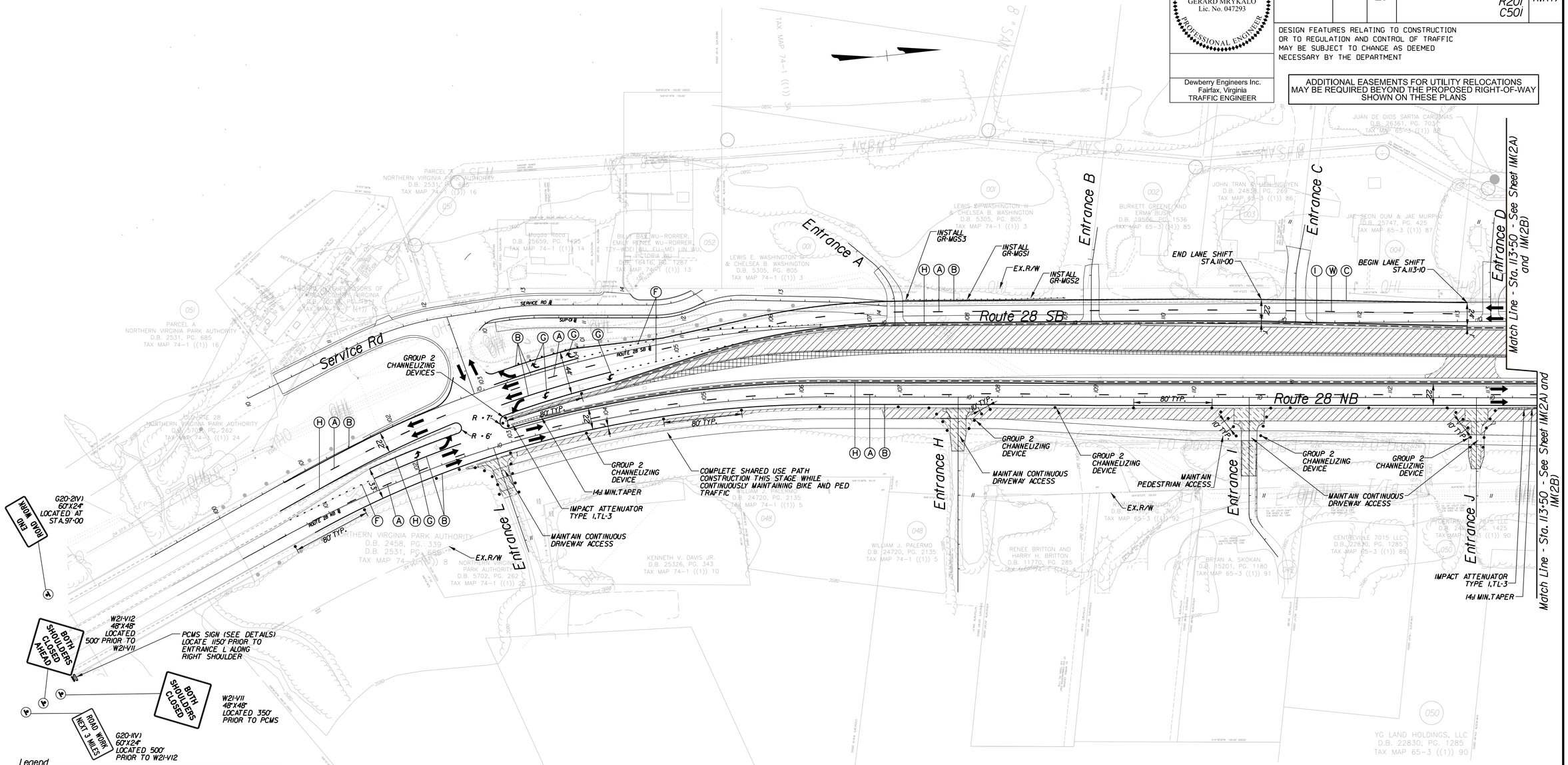
COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IM(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



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- Impact Attenuator Req'd
- • Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

PCMS SIGN DETAILS

	1	2
A	BOTH SHOULDERS TO CLOSE	ROAD WORK AHEAD
B	ON OR ABOUT XX/XX	BOTH SHOULDERS CLOSED

DISPLAY PCMS MESSAGES 1A AND 1B 1 WEEK PRIOR TO SHOULDER CLOSURE.

DISPLAY MESSAGES 2A AND 2B FOR 2 WEEKS FOLLOWING THE IMPLEMENTATION OF THE SHOULDER CLOSURE

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IM(1)

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TEMPORARY TRAFFIC CONTROL STAGE 1B EARLY

COMMONWEALTH OF VIRGINIA
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Fairfax, Virginia
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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IM (2A)

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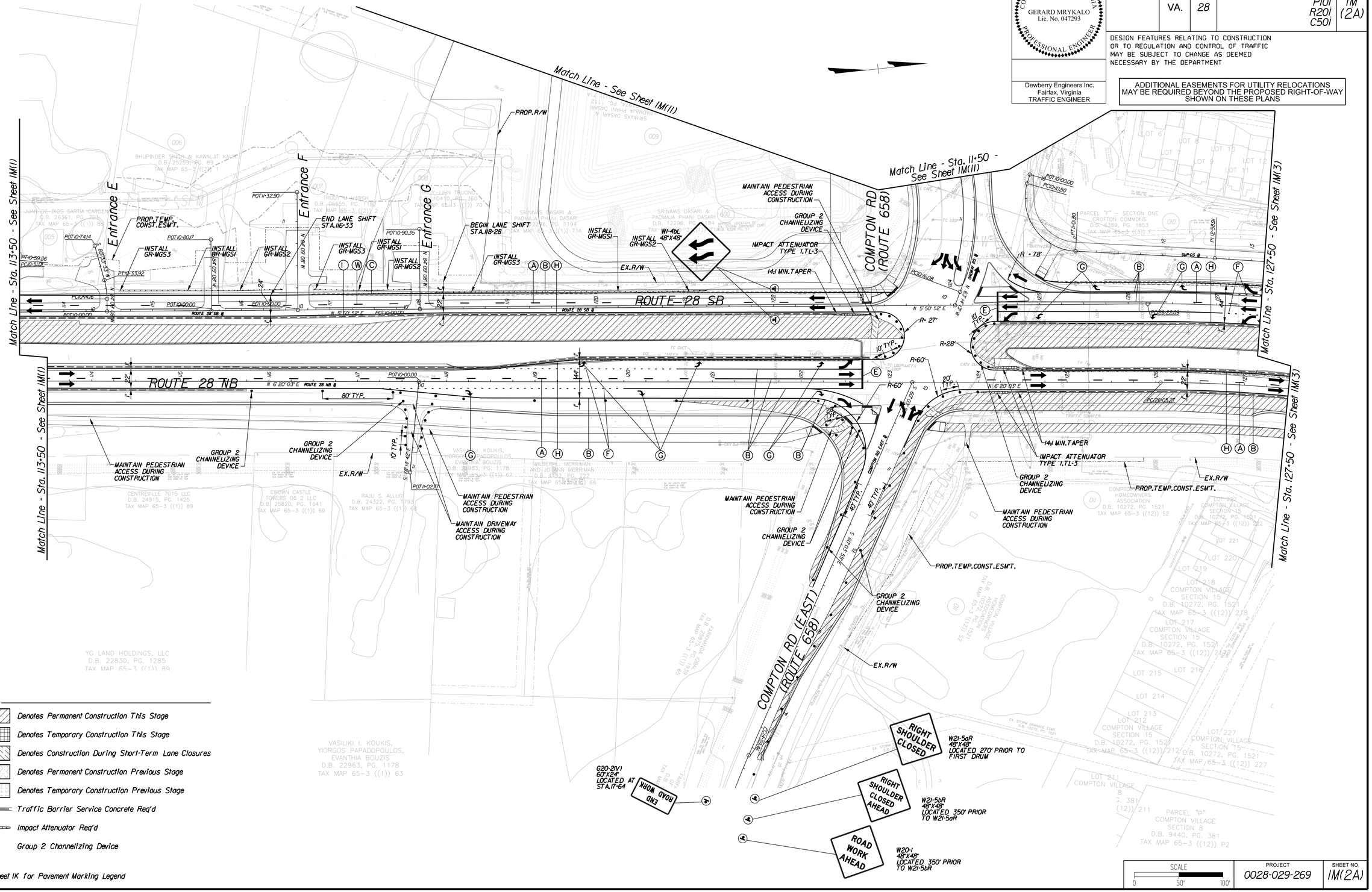

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TEMPORARY TRAFFIC CONTROL STAGE 1B

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IM (2B)

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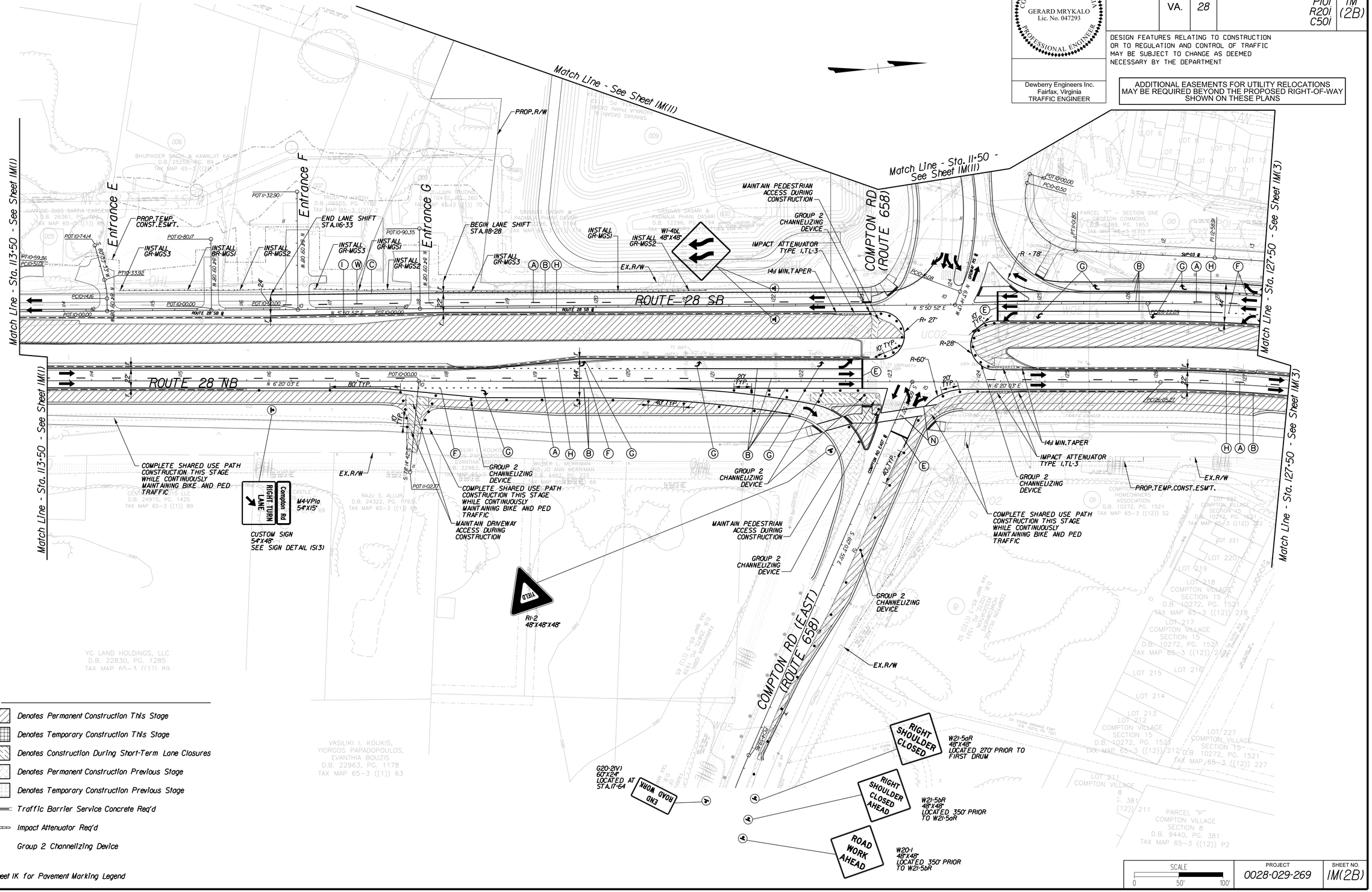

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TEMPORARY TRAFFIC CONTROL STAGE 1B

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IM(3)

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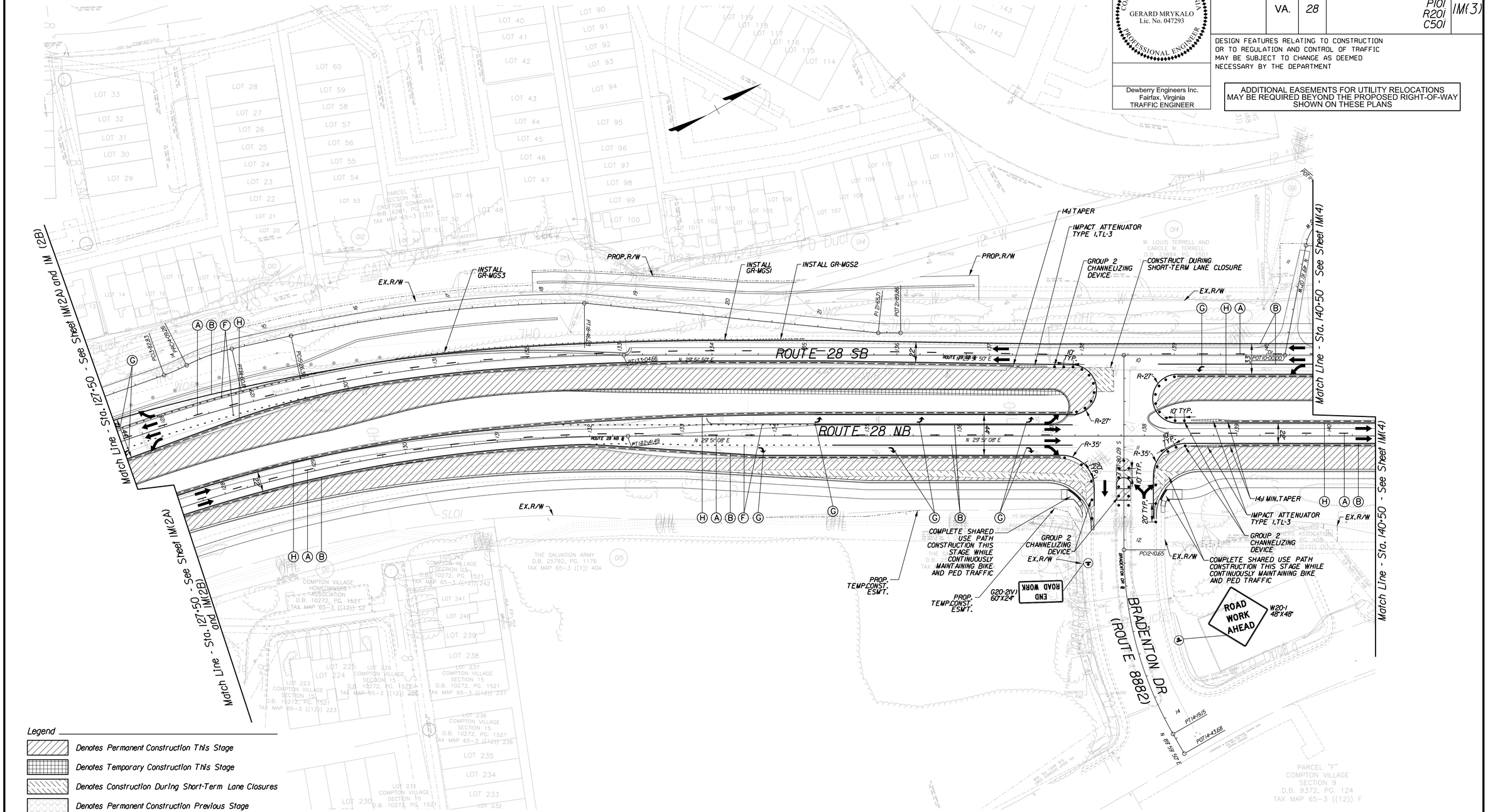

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TEMPORARY TRAFFIC CONTROL STAGE 1B

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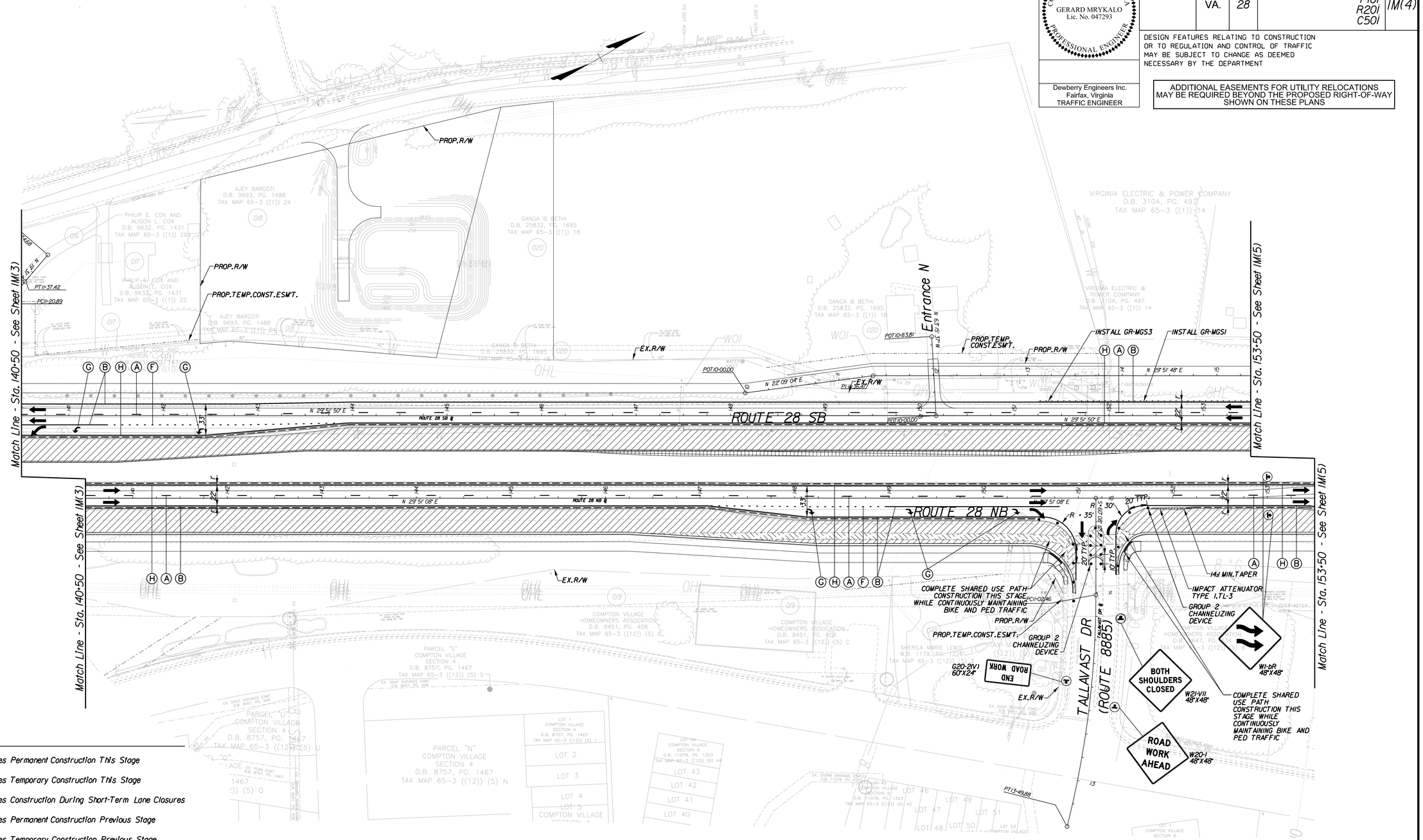

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TEMPORARY TRAFFIC CONTROL STAGE 1B

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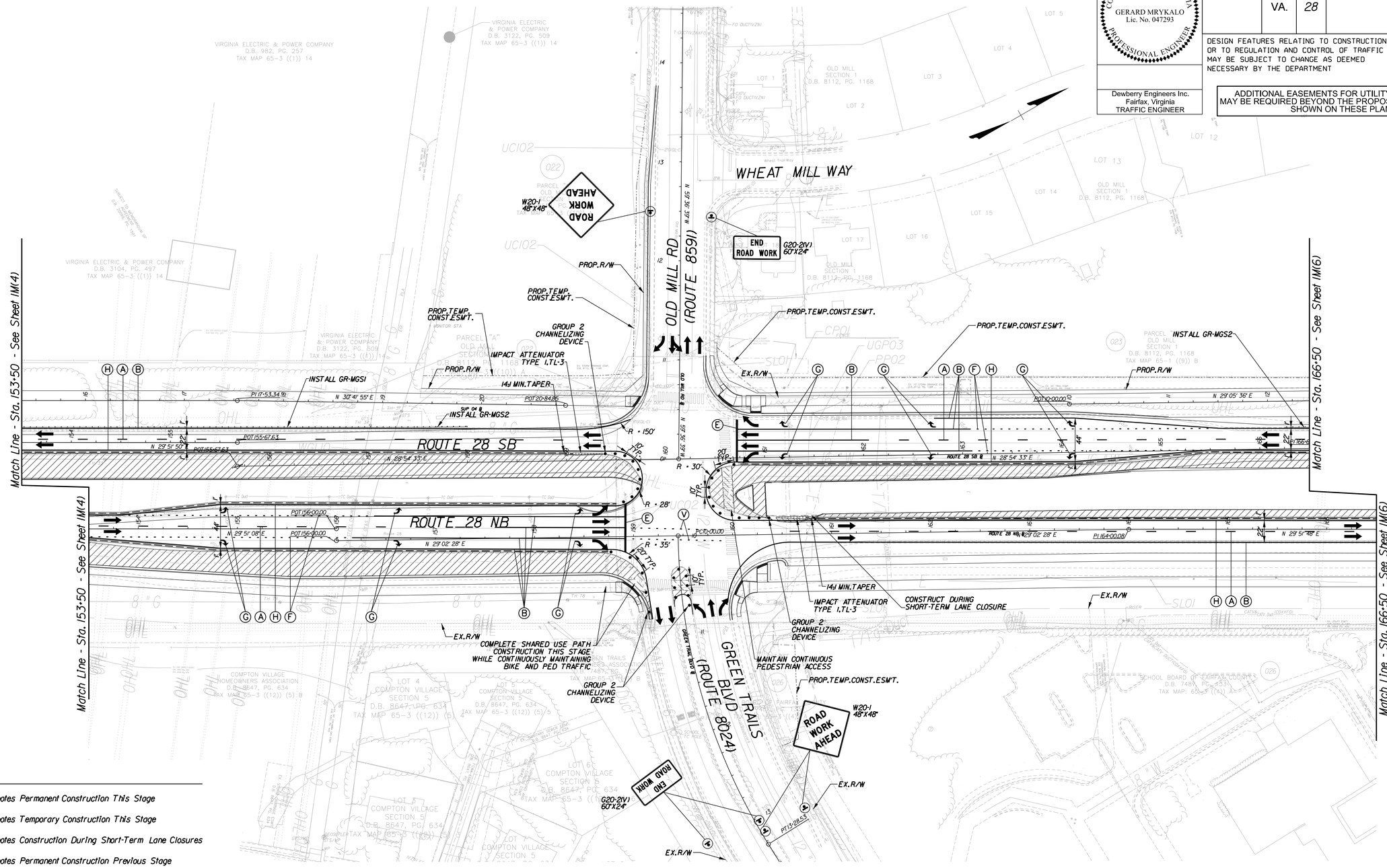

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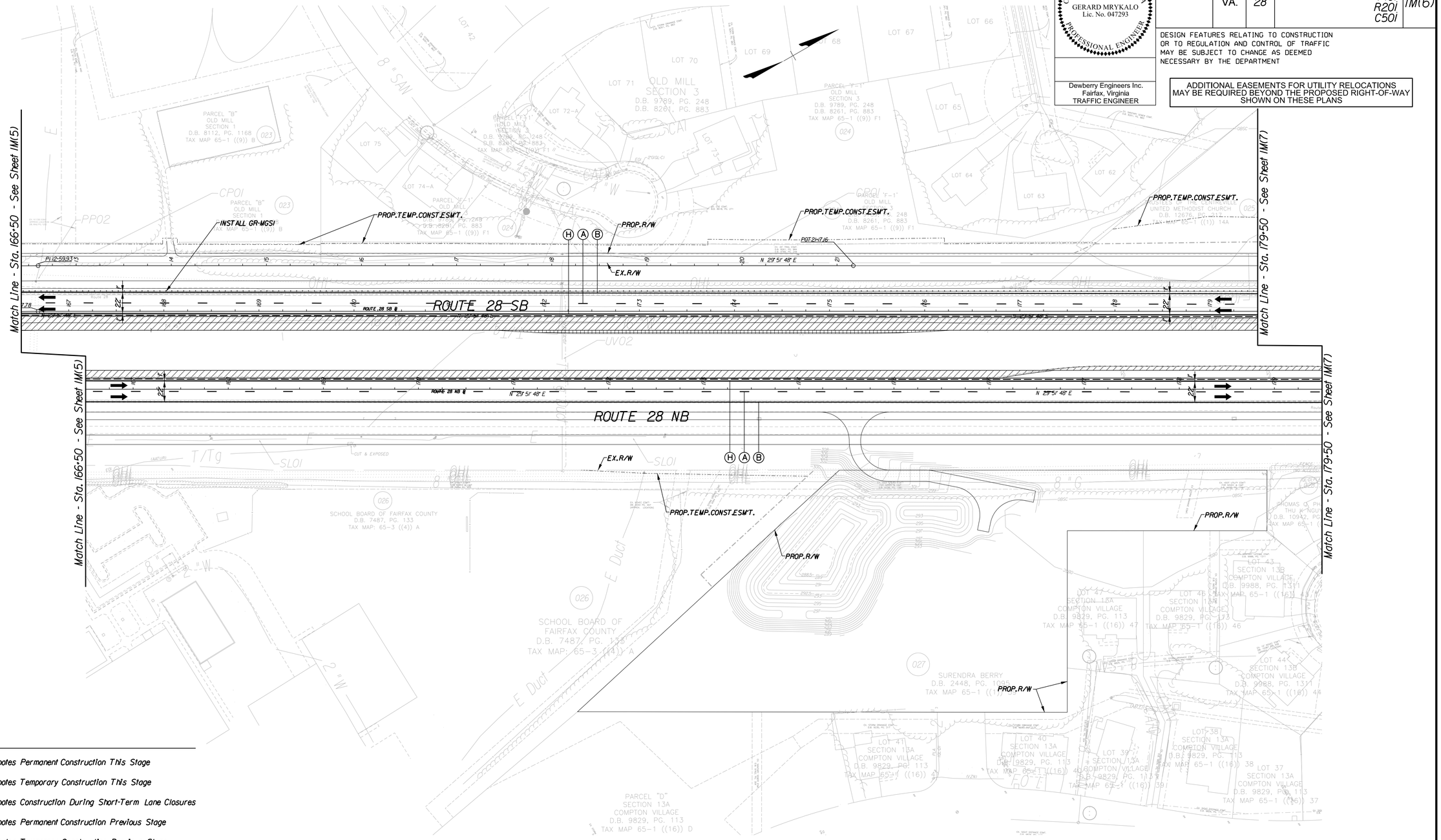

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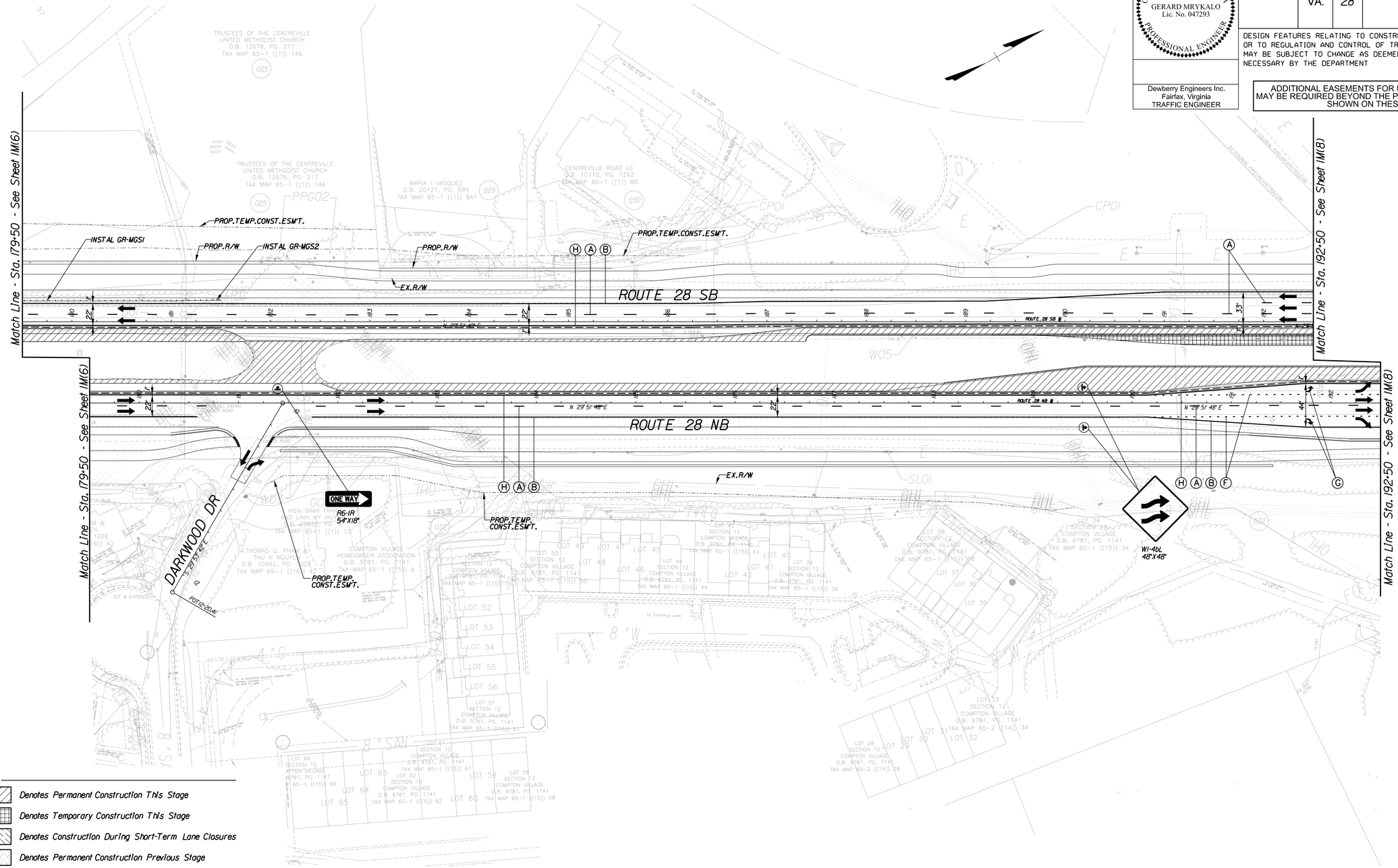

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TEMPORARY TRAFFIC CONTROL STAGE 1B

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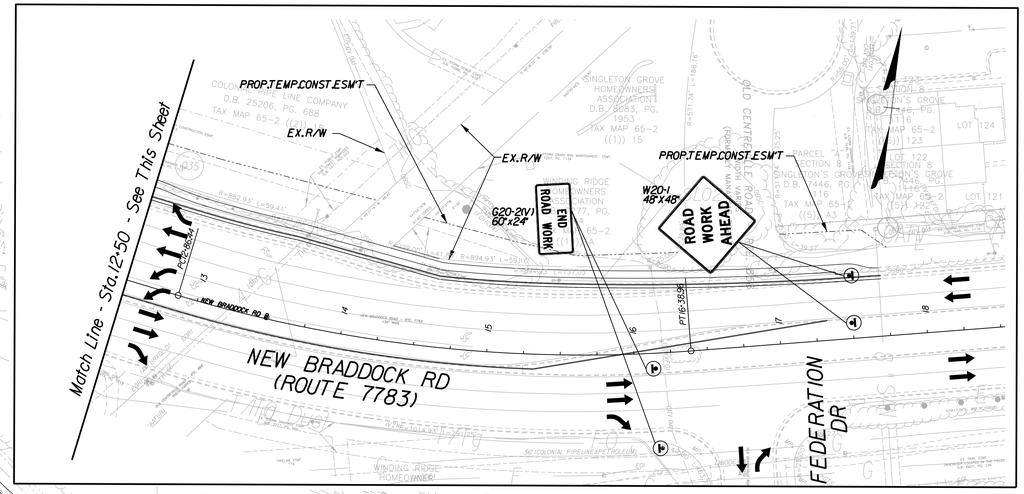

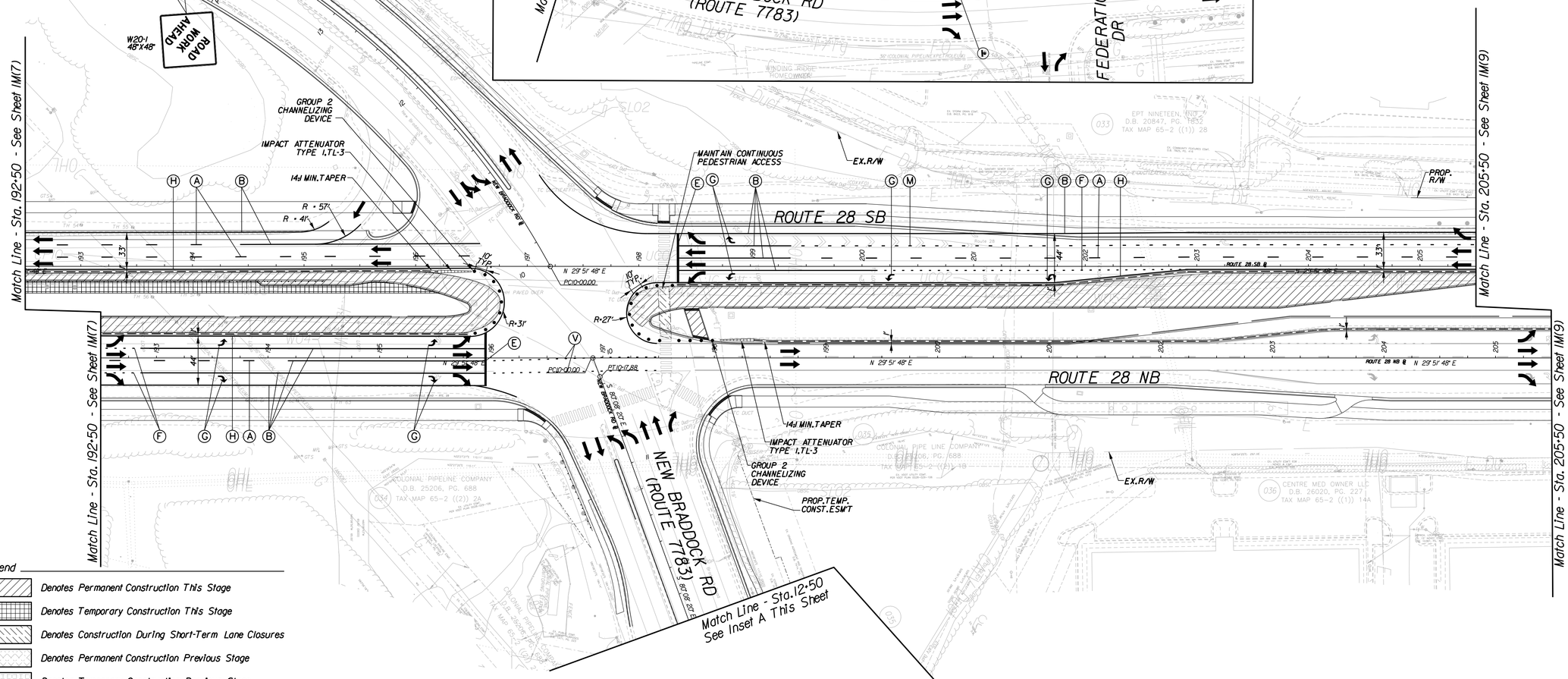

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TEMPORARY TRAFFIC CONTROL STAGE 1B

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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
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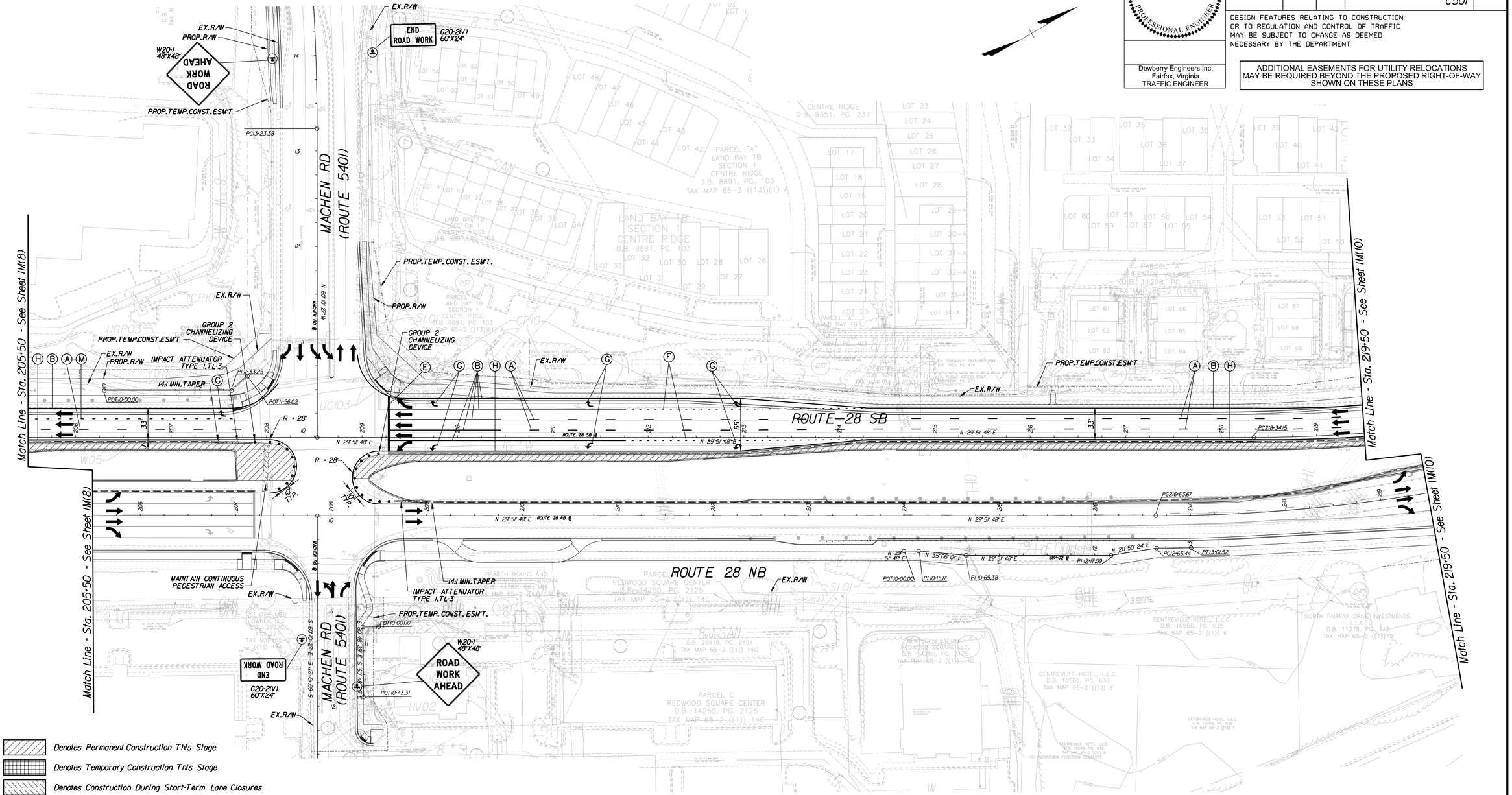

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TEMPORARY TRAFFIC CONTROL STAGE 1B

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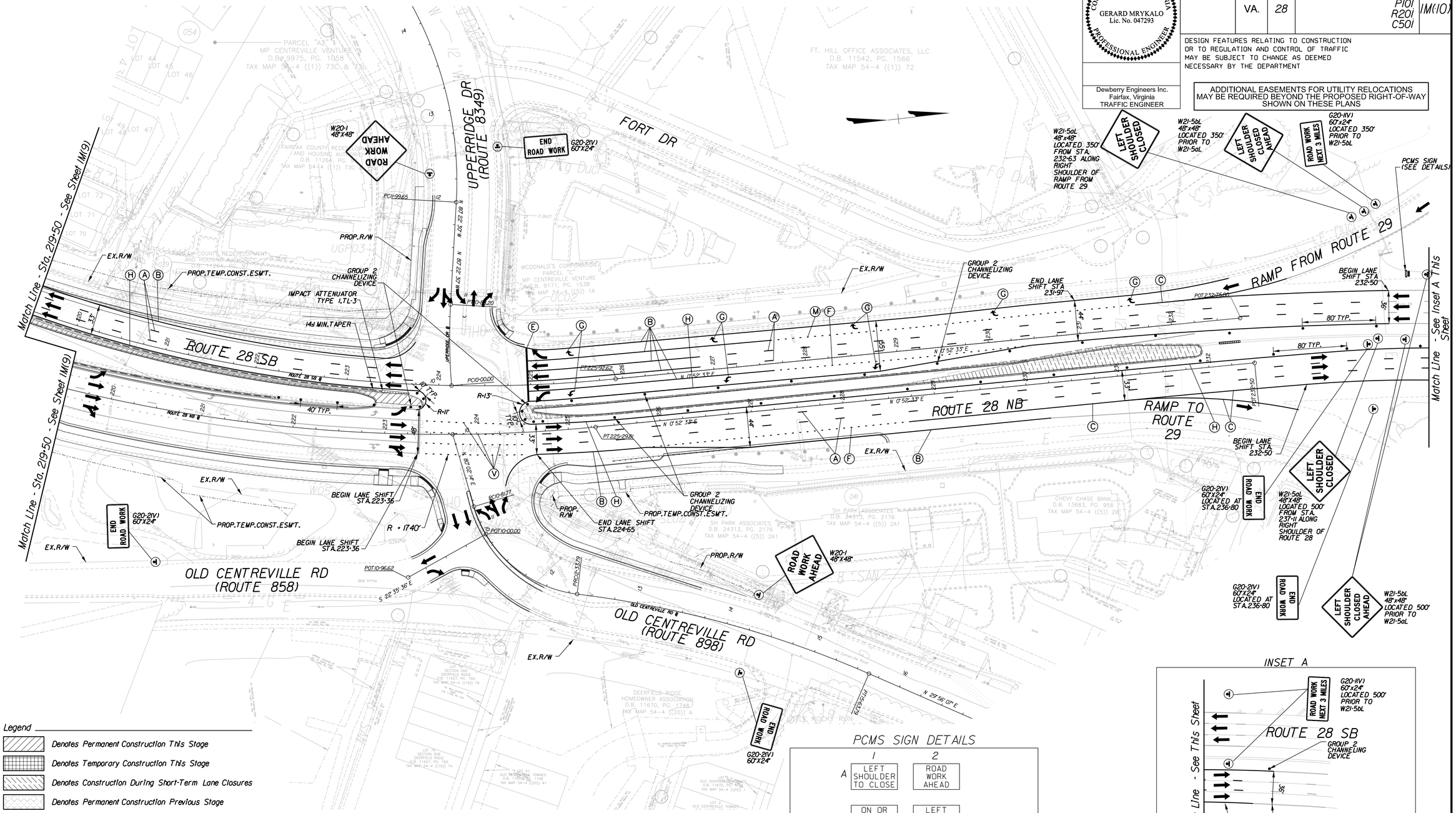

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Note: See Sheet IK for Pavement Marking Legend

ADDITIONAL PCMS SIGNS

1. PCMS SIGN (SEE DETAILS) LOCATED ON I-66W NEAR AUDREY DRIVE ALONG THE RIGHT SHOULDER.
2. PCMS SIGN (SEE DETAILS) LOCATED 700' UPSTREAM OF THE GORE ALONG THE RIGHT SHOULDER ON 28 SOUTHBOUND
3. PCMS SIGN (SEE DETAILS) LOCATED ON EASTBOUND ROUTE 29 NEAR CENTREWOOD DRIVE ALONG THE RIGHT SHOULDER.
4. PCMS SIGN (SEE DETAILS) LOCATED ON WESTBOUND ROUTE 29 800' WEST OF BRADDOCK ROAD/ OLD CENTREVILLE ROAD.

PCMS SIGN DETAILS

	1	2
A	LEFT SHOULDER TO CLOSE	ROAD WORK AHEAD
B	ON OR ABOUT XX/XX	LEFT SHOULDER CLOSED

DISPLAY PCMS MESSAGES 1A AND 1B 1 WEEK PRIOR TO SHOULDER CLOSURE.

DISPLAY PCMS MESSAGE 2A AND 2B FOR 2 WEEKS FOLLOWING THE IMPLEMENTATION OF THE SHOULDER CLOSURE

XX/XX = ABBREVIATED MONTH/DATE

INSET A

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IM(10)

2/11/2021
5:07:26 PM

T108720-IM(II).dgn
Plotted By: mvivona

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 1B

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IM(II)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

Legend

- Denotes Permanent Construction This Stage
- Denotes Temporary Construction This Stage
- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- • Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IM(II)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 1B

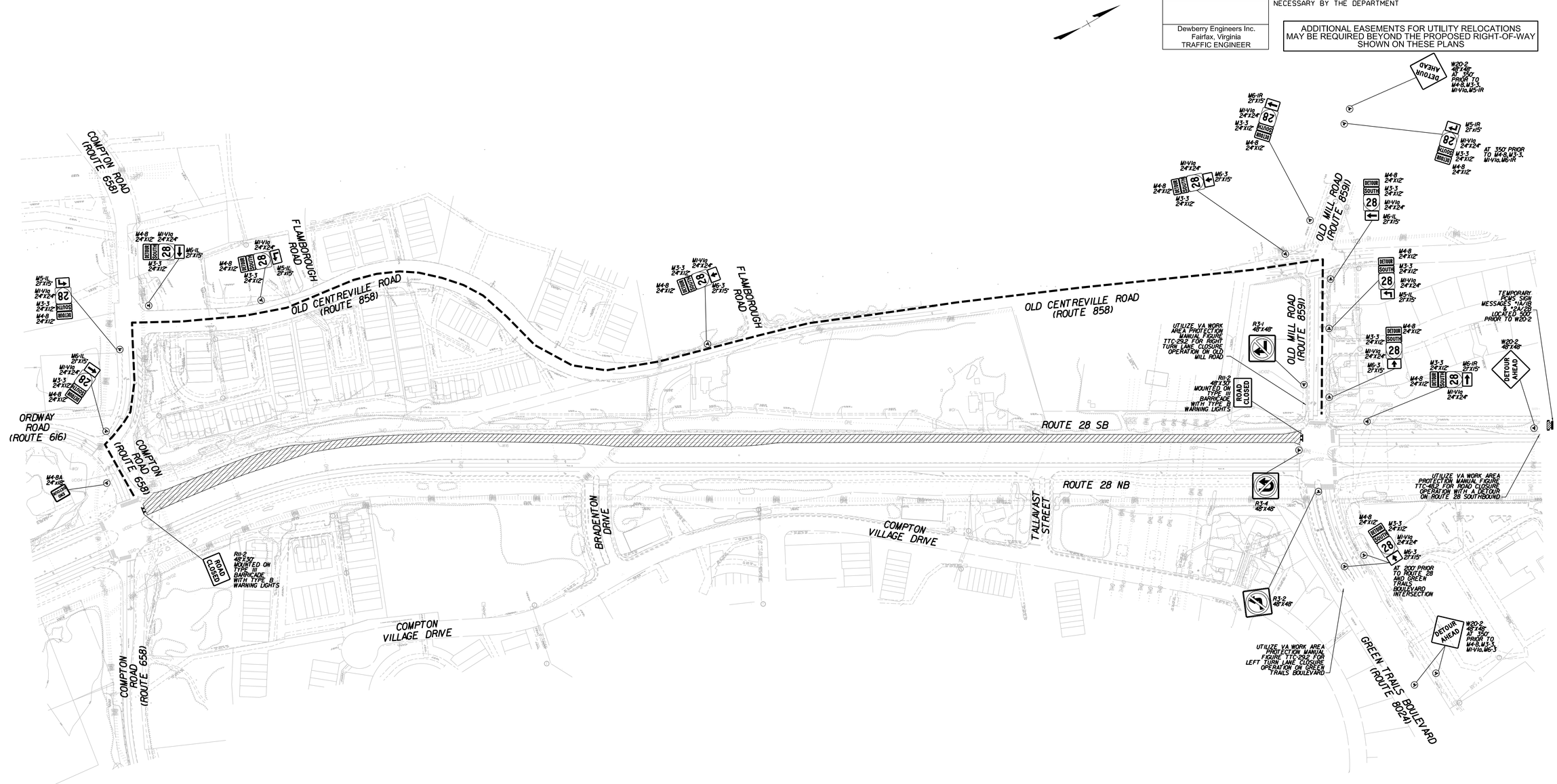
COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IM(12)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



PCMS SIGN DETAILS

	1	2
A	RT 28 SB TO CLOSE NIGHTLY	ROUTE 28 SOUTH CLOSED
B	ON OR ABOUT XX/XX	FOLLOW DETOUR

DISPLAY PCMS MESSAGES 1A AND 1B PRIOR TO CLOSING ROUTE 28 SOUTHBOUND FOR A DURATION OF ONE WEEK AND DAILY BETWEEN CLOSURES

DISPLAY PCMS MESSAGES 2A AND 2B DURING THE HOURS ROUTE 28 SB IS CLOSED

LEGEND

- ROUTE 28 SB DETOUR ROUTE
- PCMS SIGN
- ROAD CLOSURE

SCALE	PROJECT	SHEET NO.
0 150' 300'	0028-029-269	IM(12)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 1B

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IM(13)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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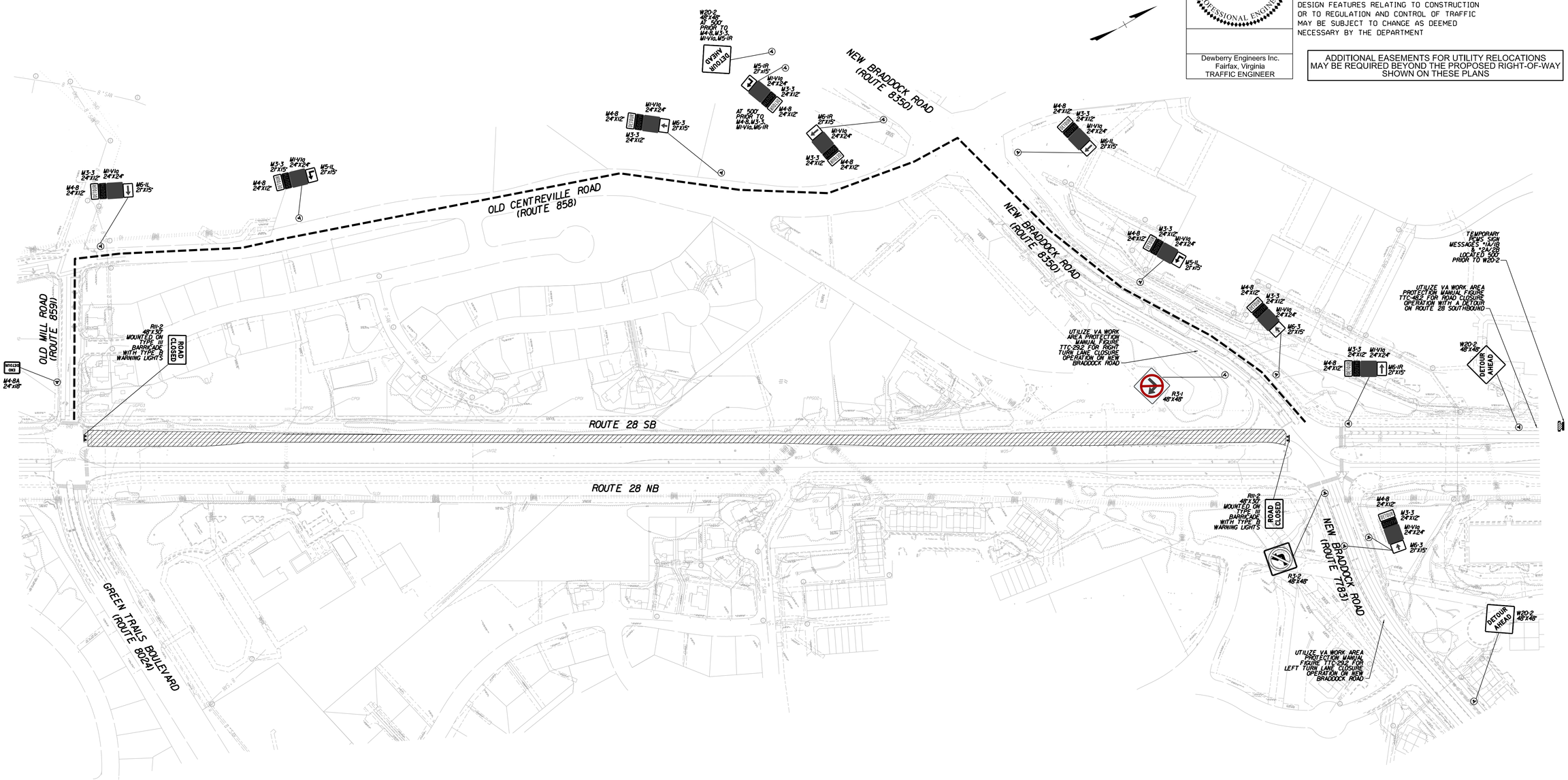

PCMS SIGN DETAILS

	1	2
A	RT 28 SB TO CLOSE NIGHTLY	ROUTE 28 SOUTH CLOSED
B	ON OR ABOUT XX/XX	FOLLOW DETOUR

DISPLAY PCMS MESSAGES 1A AND 1B PRIOR TO CLOSING ROUTE 28 SOUTHBOUND FOR A DURATION OF ONE WEEK AND DAILY BETWEEN ROAD CLOSURES.

DISPLAY PCMS MESSAGES 2A AND 2B DURING THE HOURS ROUTE 28 SB IS CLOSED

LEGEND

- ROUTE 28 SB DETOUR ROUTE
- PCMS SIGN
- ROAD CLOSURE

SCALE	PROJECT	SHEET NO.
0 150' 300'	0028-029-269	IM(13)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 2

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IN(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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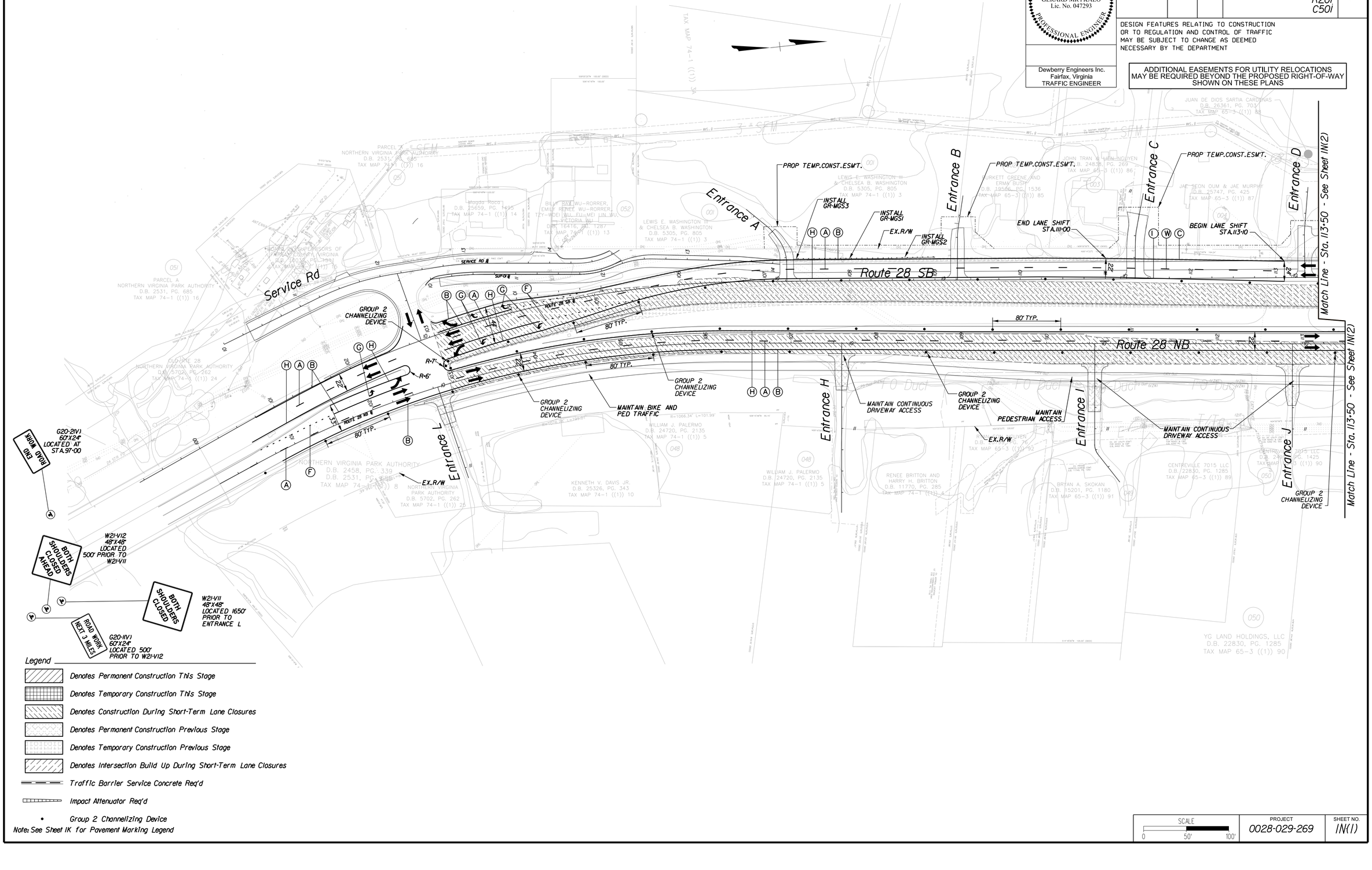

Legend

- Denotes Permanent Construction This Stage
- Denotes Temporary Construction This Stage
- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
- Denotes Intersection Build Up During Short-Term Lane Closures
- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- • Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IN(1)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
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TEMPORARY TRAFFIC CONTROL STAGE 2

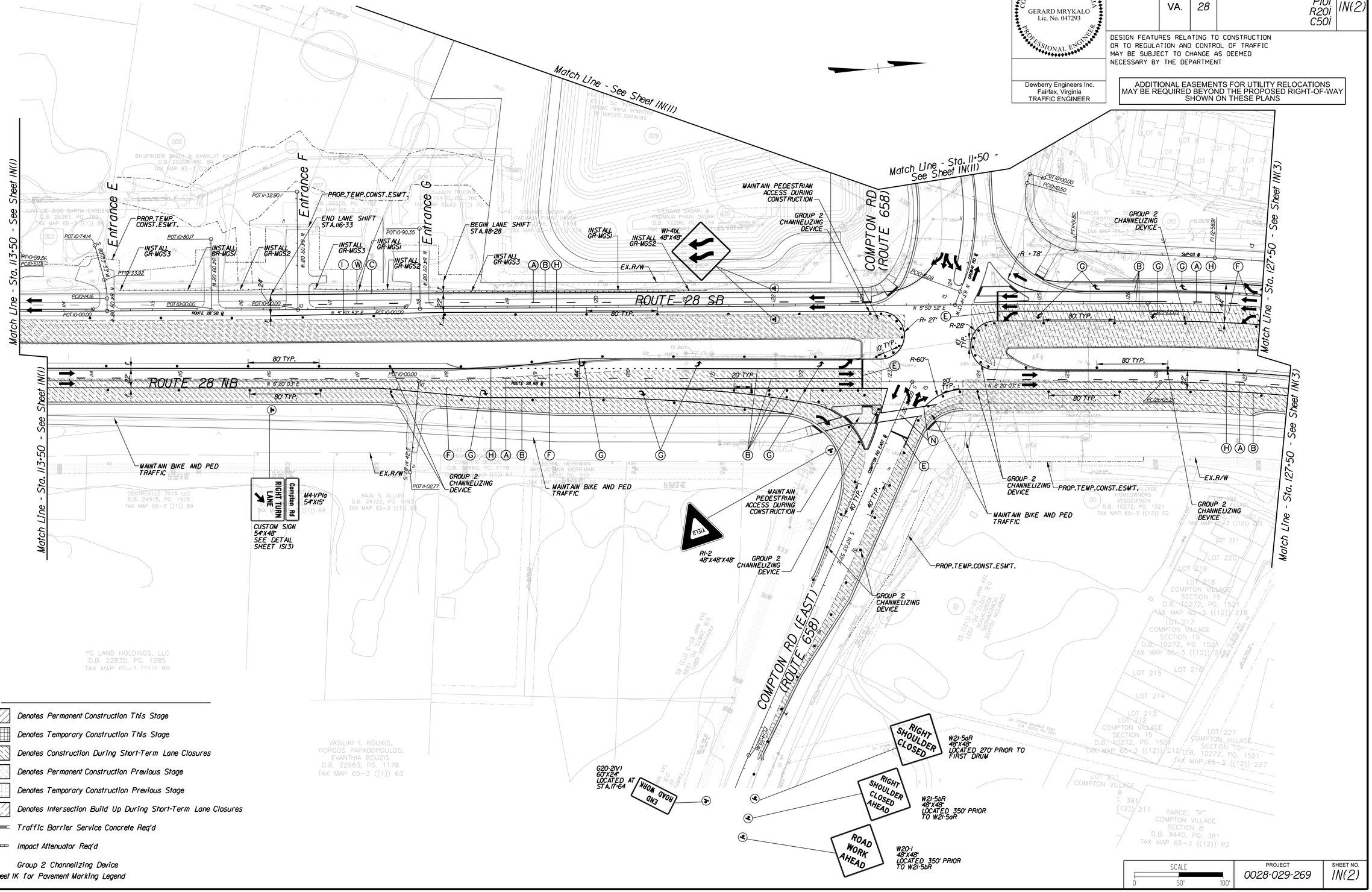
COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IN(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



Legend

- Denotes Permanent Construction This Stage
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- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
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- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- • Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IN(2)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
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TEMPORARY TRAFFIC CONTROL STAGE 2

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IN(3)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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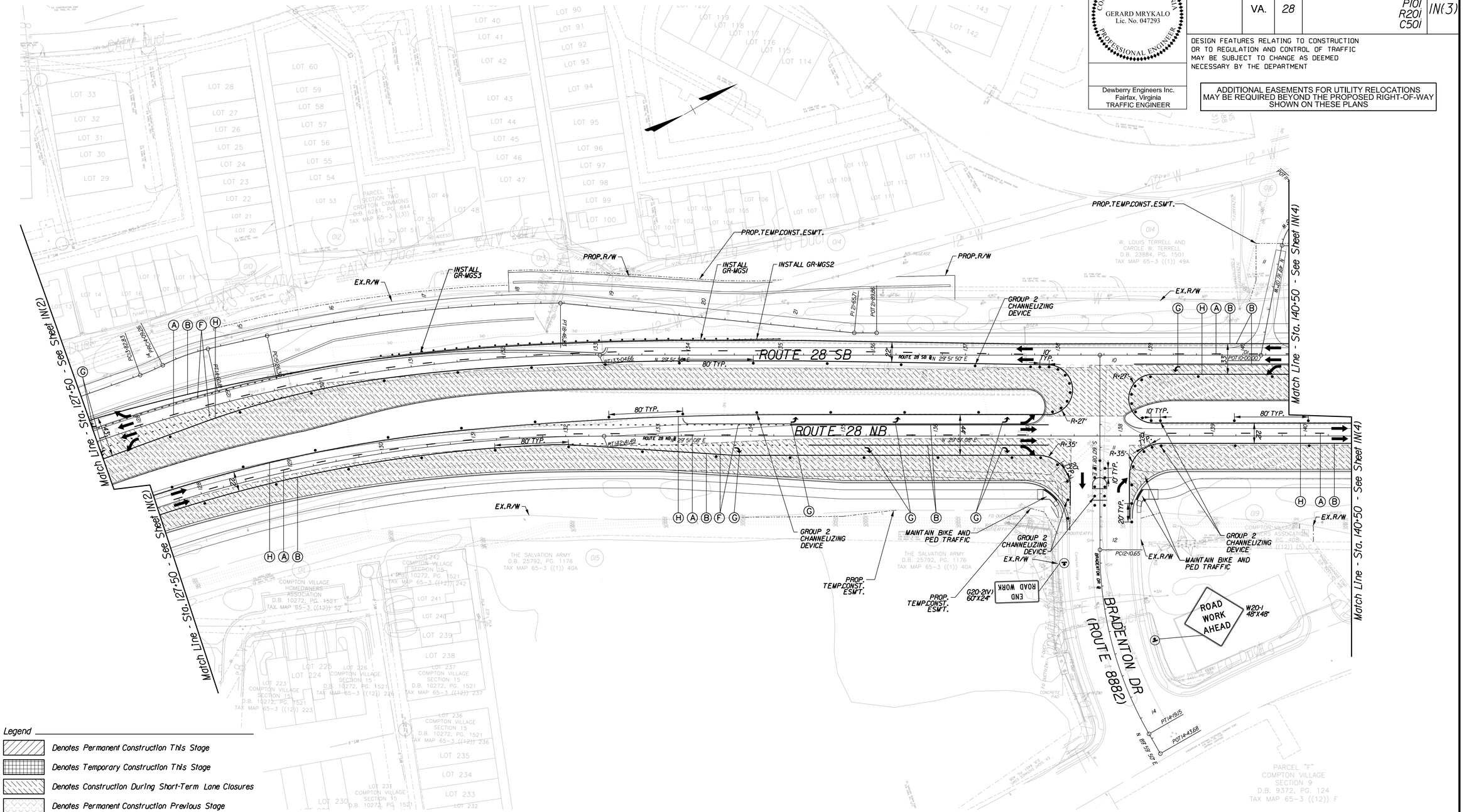

Legend

- Denotes Permanent Construction This Stage
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- Denotes Construction During Short-Term Lane Closures
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- Impact Attenuator Req'd
- • Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IN(3)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
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TEMPORARY TRAFFIC CONTROL STAGE 2

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IN(4)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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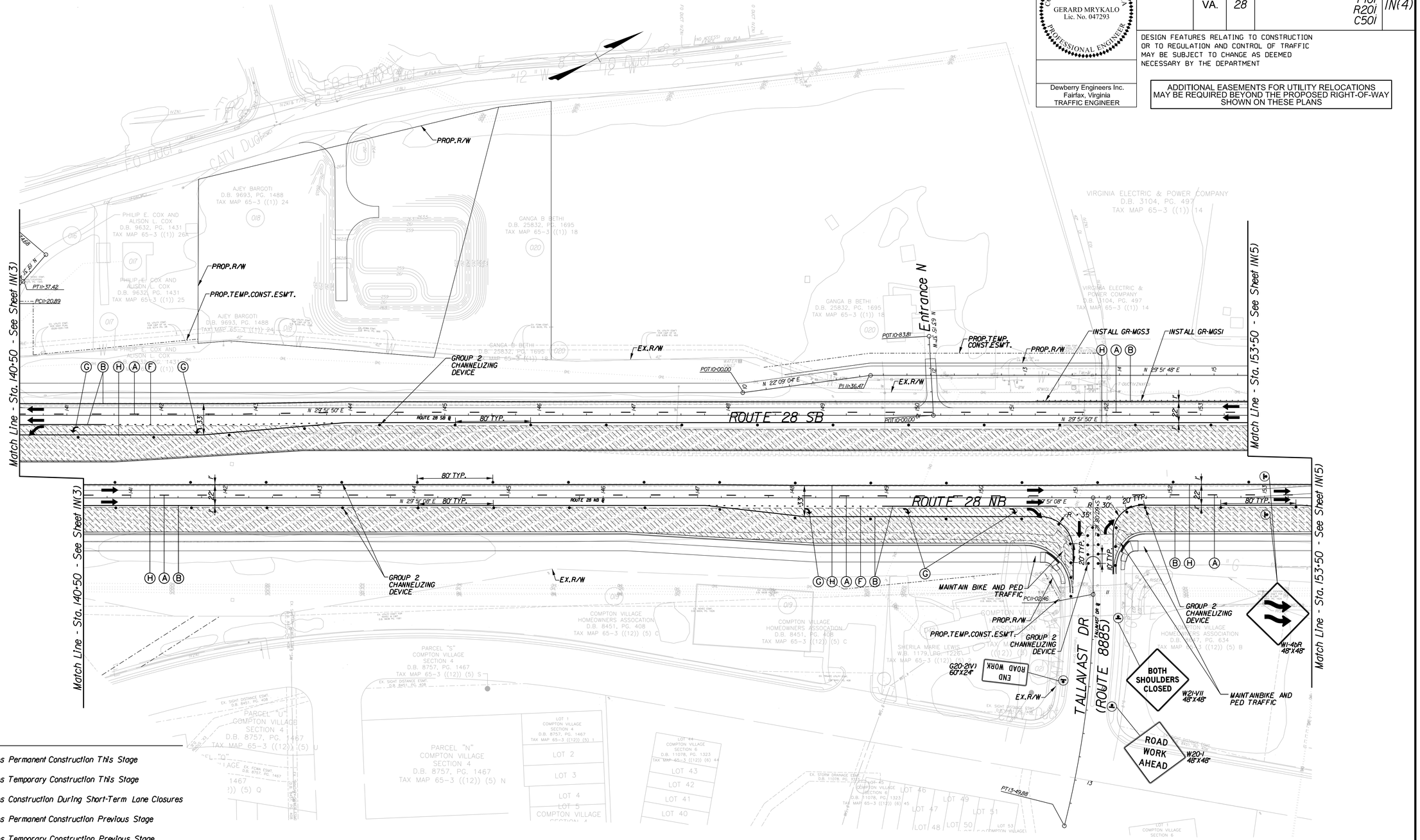

Legend

- *Denotes Permanent Construction This Stage*
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- *Denotes Construction During Short-Term Lane Closures*
- *Denotes Permanent Construction Previous Stage*
- *Denotes Temporary Construction Previous Stage*
- *Denotes Intersection Build Up During Short-Term Lane Closures*
- *Traffic Barrier Service Concrete Req'd*
- *Impact Attenuator Req'd*
- *Group 2 Channelizing Device*

Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IN(4)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 2

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IN(5)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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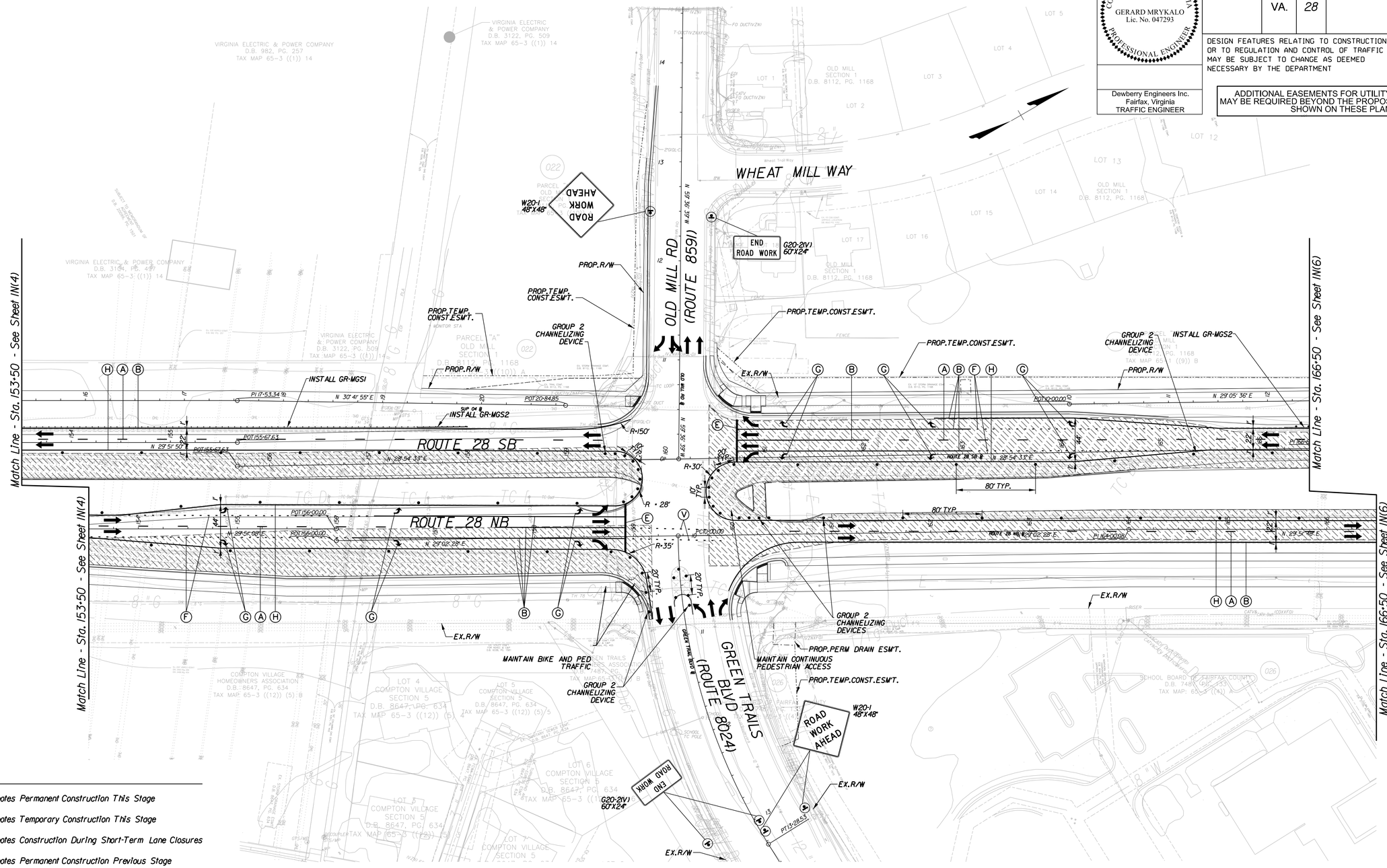

Legend

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- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- • Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IN(5)

2/11/2021
5:21:07 PM

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Plotted By: mvivona

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
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SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 2

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IN(6)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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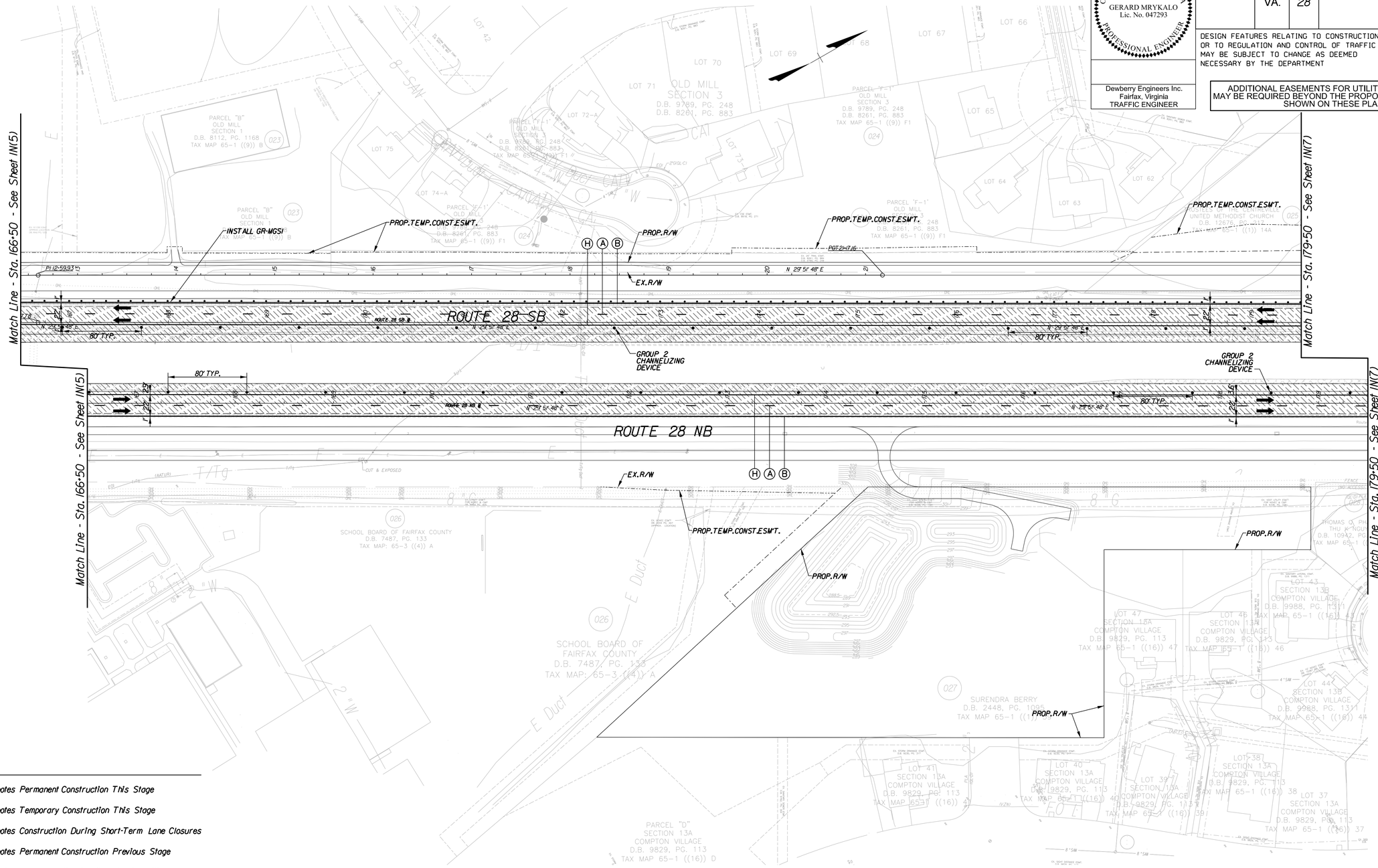

Legend

- *Denotes Permanent Construction This Stage*
- *Denotes Temporary Construction This Stage*
- *Denotes Construction During Short-Term Lane Closures*
- *Denotes Permanent Construction Previous Stage*
- *Denotes Temporary Construction Previous Stage*
- *Denotes Intersection Build Up During Short-Term Lane Closures*
- *Traffic Barrier Service Concrete Req'd*
- *Impact Attenuator Req'd*
- *Group 2 Channelizing Device*

Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IN(6)

Dewberry

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TEMPORARY TRAFFIC CONTROL STAGE 2

COMMONWEALTH OF VIRGINIA
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PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IN(7)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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Match Line - Sta. 179+50 - See Sheet IN(6)

Match Line - Sta. 192+50 - See Sheet IN(8)

ROUTE 28 SB

ROUTE 28 NB

PROP.TEMP.CONST.ESM'T.

EX.R/W

PROP.R/W

INSTAL GR-MGS1

INSTAL GR-MGS2

GROUP 2 CHANNELIZING DEVICE

ONE WAY
R6-1R
54"X18"

DARKWOOD DR

POST-12-20-41

W1-4bL
48"X48"

80' TYP.

Legend

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Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IN(7)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
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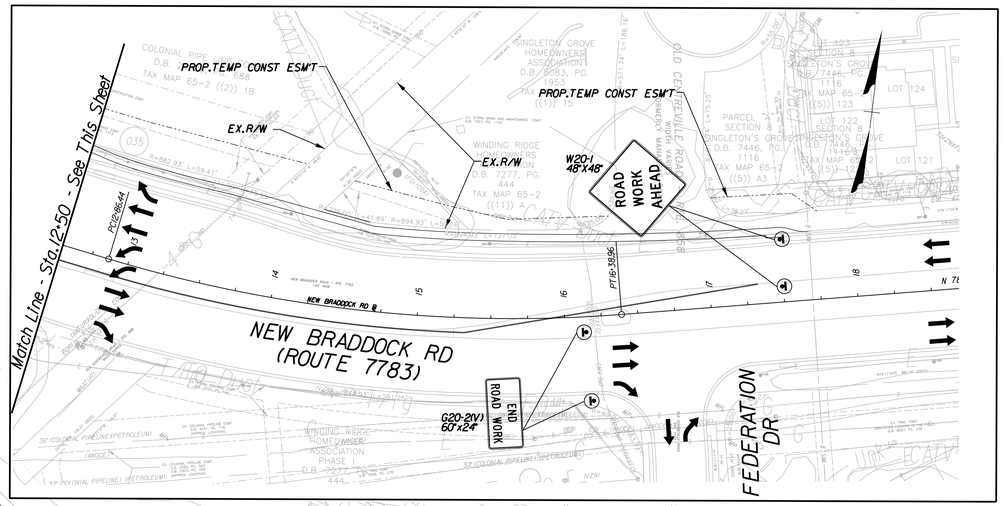
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 2

INSET A



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Note: See Sheet IK for Pavement Marking Legend

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IN(8)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IN(8)

2/11/2021
5:26:16 PM

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Plotted By: mvivona

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
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TEMPORARY TRAFFIC CONTROL STAGE 2

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
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PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IN(9)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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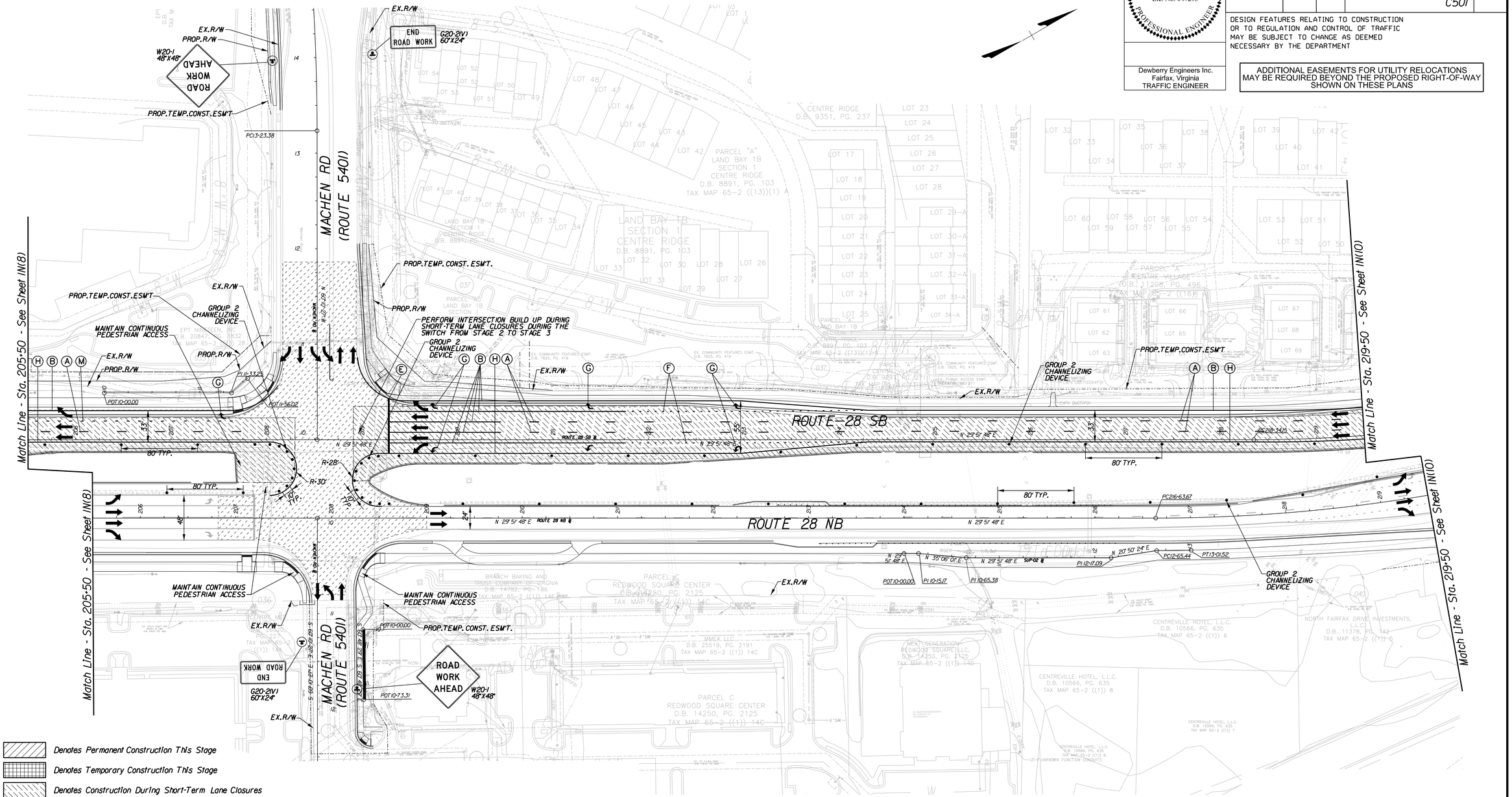

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Traffic Barrier Service Concrete Req'd
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Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IN(9)

Dewberry

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TEMPORARY TRAFFIC CONTROL STAGE 2

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Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
.	VA.	28	0028-029-269 P101 R201 C501	IN(10)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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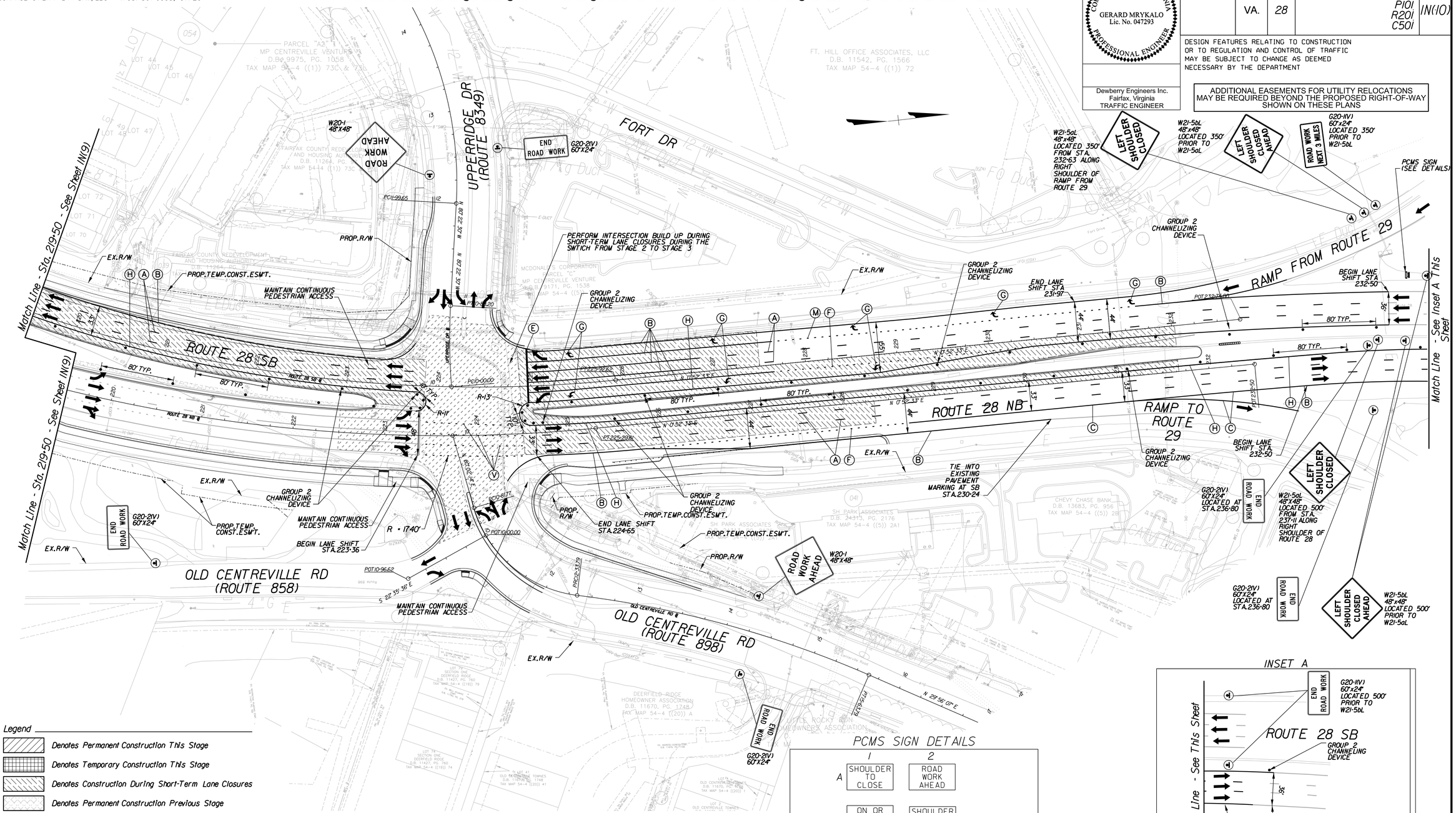

INSET A

PCMS SIGN DETAILS

	1	2
A	SHOULDER TO CLOSE	ROAD WORK AHEAD
B	ON OR ABOUT XX/XX	SHOULDER CLOSED

DISPLAY PCMS MESSAGES 1A AND 1B 1 WEEK PRIOR TO SHOULDER CLOSURE.

DISPLAY PCMS MESSAGE 2A AND 2B 2 WEEKS FOLLOWING THE IMPLEMENTATION OF THE SHOULDER CLOSURE.

XX/XX = ABBREVIATED MONTH/DATE

Legend

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- Denotes Permanent Construction Previous Stage
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- Impact Attenuator Req'd
- • Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

ADDITIONAL PCMS SIGNS

1. PCMS SIGN (SEE DETAILS) LOCATED ON I-66W NEAR AUDREY DRIVE ALONG THE RIGHT SHOULDER.
2. PCMS SIGN (SEE DETAILS) LOCATED 700' UPSTREAM OF THE GORE ALONG THE RIGHT SHOULDER ON 28 SOUTHBOUND
3. PCMS SIGN (SEE DETAILS) LOCATED ON EASTBOUND ROUTE 29 NEAR CENTREWOOD DRIVE ALONG THE RIGHT SHOULDER.
4. PCMS SIGN (SEE DETAILS) LOCATED ON WESTBOUND ROUTE 29 800' WEST OF BRADDOCK ROAD/ OLD CENTREVILLE ROAD.

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IN(10)

2/11/2021
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Plotted By: mvivona

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
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SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 2

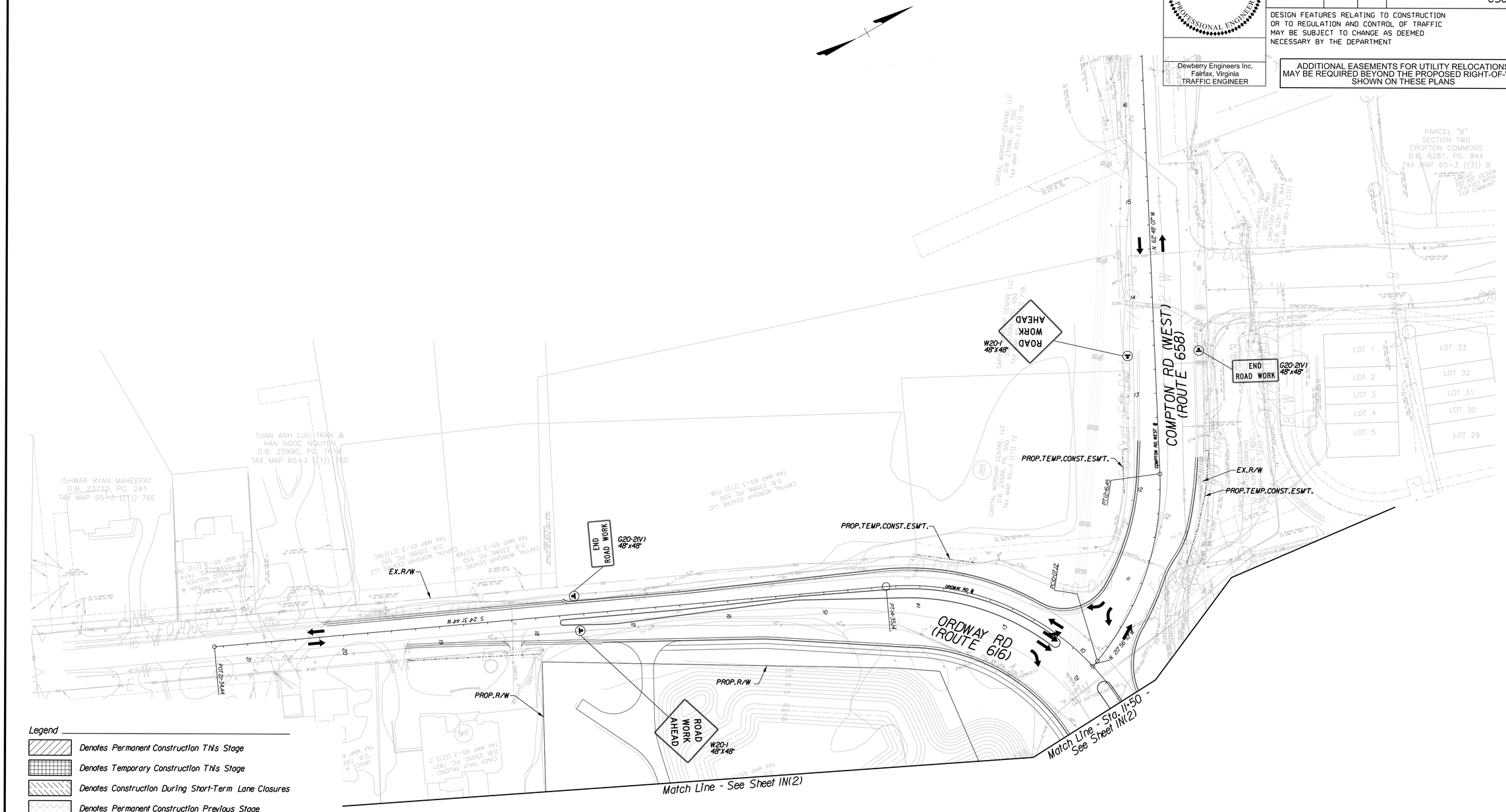
COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IN(II)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



Legend

- Denotes Permanent Construction This Stage
- Denotes Temporary Construction This Stage
- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
- Denotes Intersection Build Up During Short-Term Lane Closures
- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IN(II)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 3A

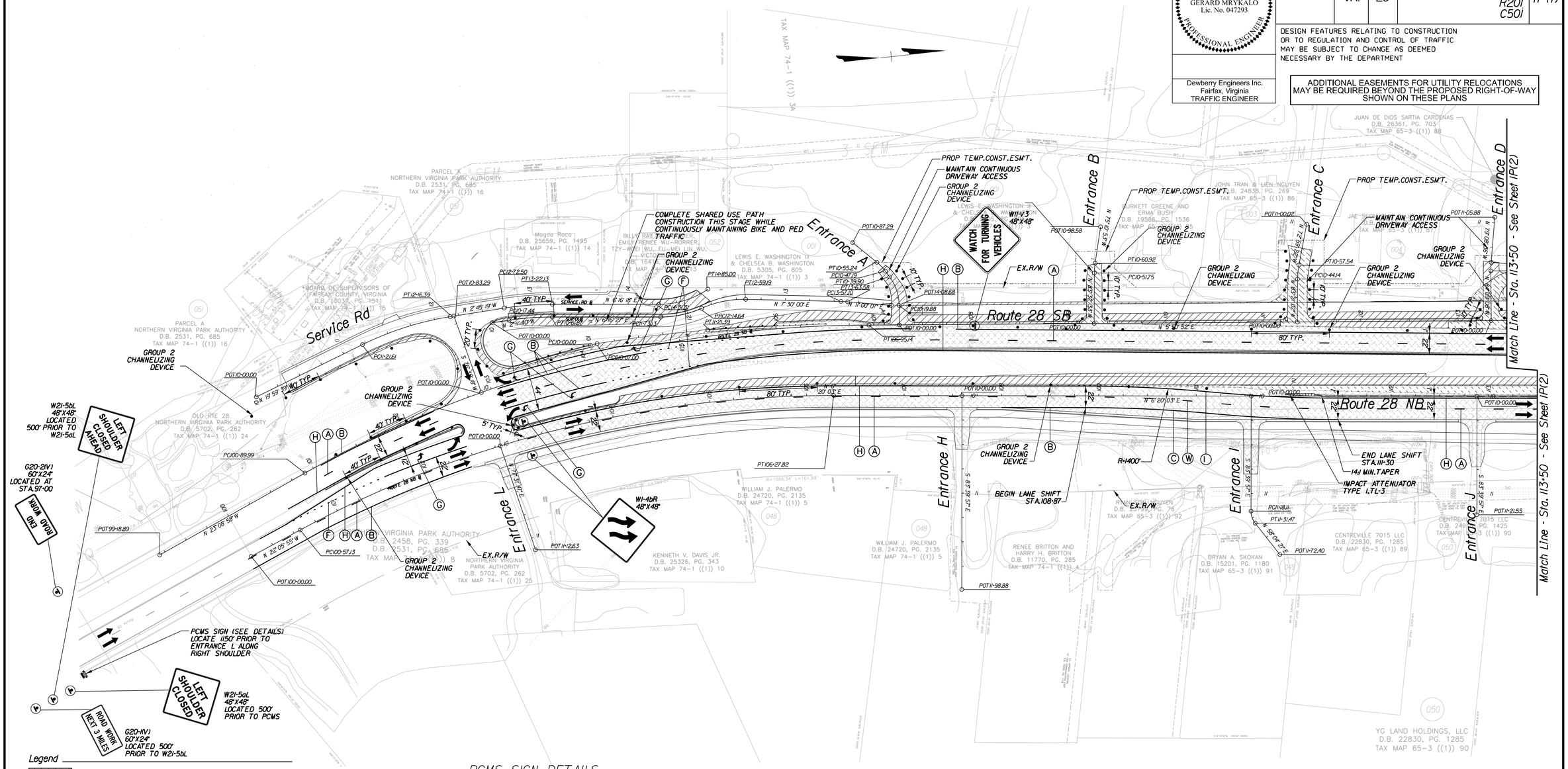
COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IP(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



Legend

- Denotes Permanent Construction This Stage
- Denotes Temporary Construction This Stage
- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
- Denotes Permanent Overlay This Stage
- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

PCMS SIGN DETAILS

	1	2
A	LANES TO SHIFT RIGHT	ROAD WORK AHEAD
B	ON OR ABOUT XX/XX	LANES SHIFT RIGHT

DISPLAY PCMS MESSAGES 1A AND 1B 1 WEEK PRIOR TO SHOULDER CLOSURE.

DISPLAY PCMS MESSAGES 2A AND 2B FOR FOR 2 WEEKS FOLLOWING THE IMPLEMENTATION OF THE LANE SHIFT

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IP(1)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 3A

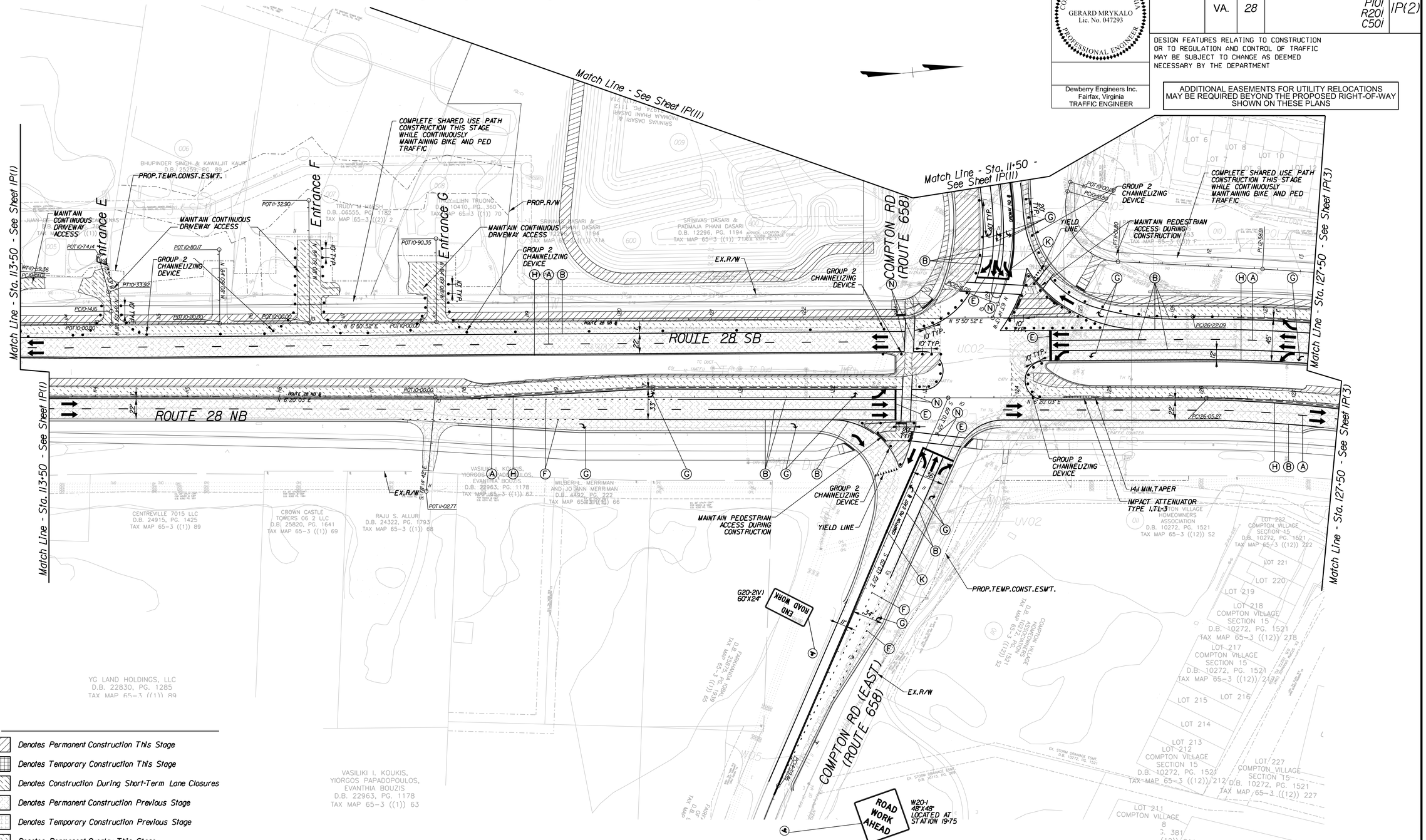
COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IP(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



Legend

- Denotes Permanent Construction This Stage
- Denotes Temporary Construction This Stage
- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
- Denotes Permanent Overlay This Stage
- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IP(2)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 3A

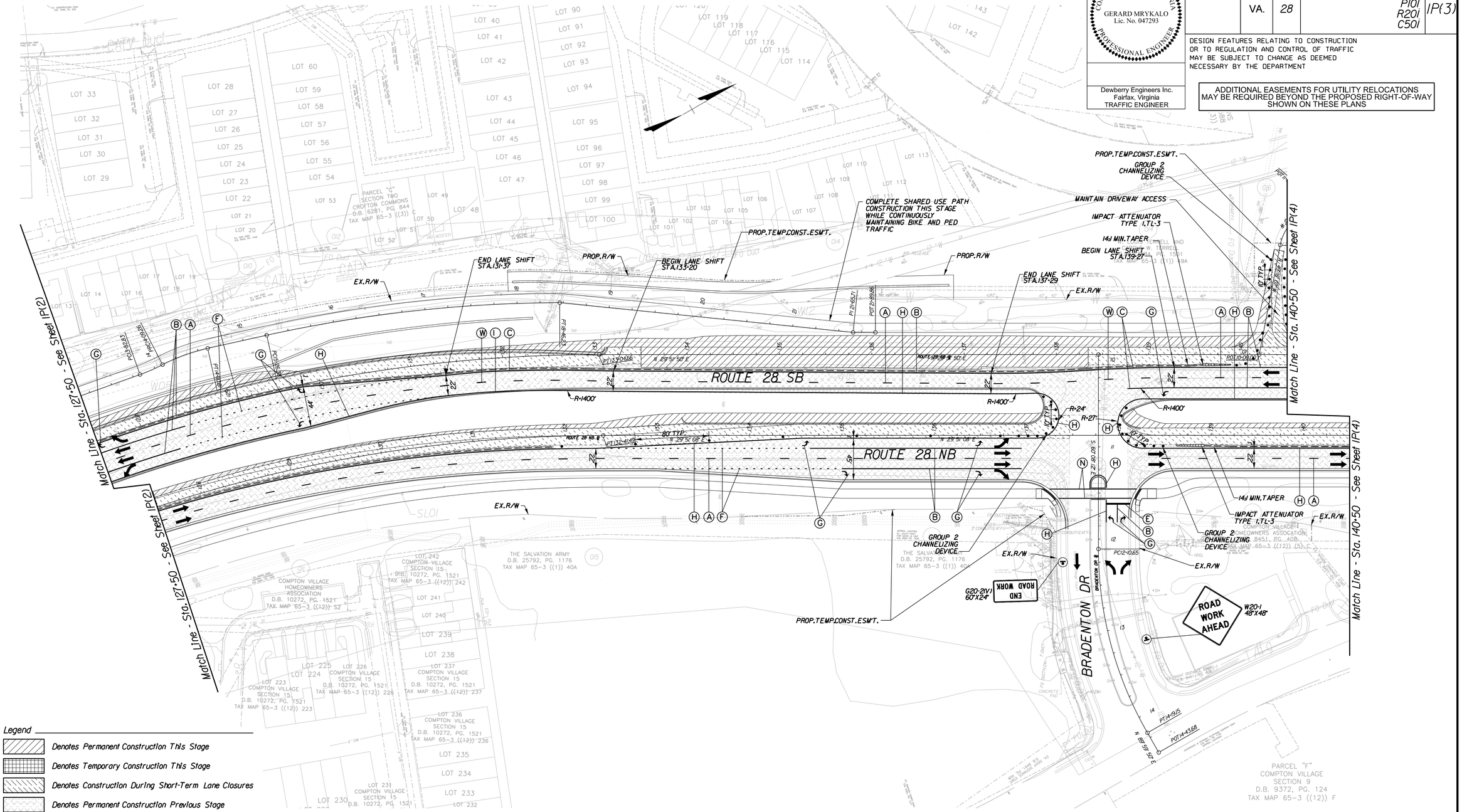
COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IP(3)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



Legend

- Denotes Permanent Construction This Stage
- Denotes Temporary Construction This Stage
- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
- Denotes Permanent Overlay This Stage
- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IP(3)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
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SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 3A

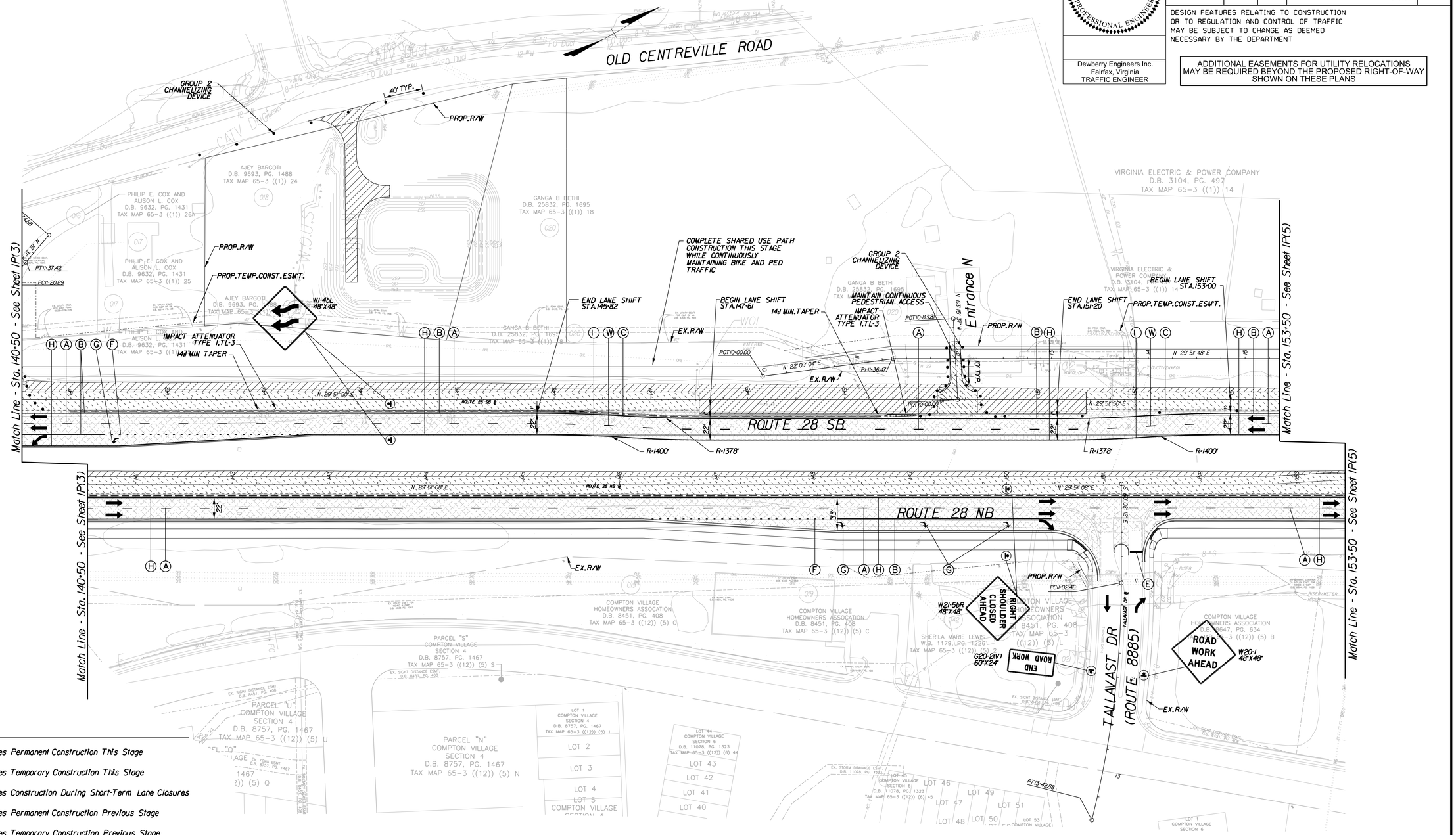
COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IP(4)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



Legend

- Denotes Permanent Construction This Stage
- Denotes Temporary Construction This Stage
- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
- Denotes Permanent Overlay This Stage
- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IP(4)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
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TEMPORARY TRAFFIC CONTROL STAGE 3A

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IP(5)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

Match Line - Sta. 153+50 - See Sheet IP(4)

Match Line - Sta. 166+50 - See Sheet IP(6)

ROUTE 28 SB

ROUTE 28 NB

WHEAT MILL WAY

OLD MILL RD (ROUTE 8591)

GREEN TRAILS BLVD (ROUTE 8024)

COMPLETE SHARED USE PATH CONSTRUCTION THIS STAGE WHILE CONTINUOUSLY MAINTAINING BIKE AND PED TRAFFIC

PROP.TEMP.CONST.ESM'T.

PROP.R/W

EX.R/W

IMPACT ATTENUATOR TYPE 1,TL-3

14d MIN.TAPER

GROUP 2 CHANNELIZING DEVICE

MAINTAIN PEDESTRIAN ACCESS

W24-1aL 48"X48"

W20-1 48"X48" LOCATED 350' PRIOR TO W21-5bR

W21-5bR 48"X48" LOCATED 350' PRIOR TO W21-5aR

W21-5aR 48"X48" LOCATED 270' PRIOR TO THE FIRST DRUM

RIGHT SHOULDER CLOSED

RIGHT SHOULDER CLOSED AHEAD

ROAD WORK AHEAD

END ROAD WORK

G20-2(V) 60"X24"

W4-2L 48"X48"

W1-4bL 48"X48"

R-28'

R-22'

40' TYP.

20' TYP.

10' TYP.

VIRGINIA ELECTRIC & POWER COMPANY D.B. 982, PG. 257 TAX MAP 65-3 ((1)) 14

VIRGINIA ELECTRIC & POWER COMPANY D.B. 3104, PG. 497 TAX MAP 65-3 ((1)) 14

VIRGINIA ELECTRIC & POWER COMPANY D.B. 3122, PG. 509 TAX MAP 65-3 ((1)) 14

PARCEL "A" OLD MILL SECTION 1 D.B. 8112, PG. 1168 TAX MAP 65-3 ((10)) A

PARCEL "B" OLD MILL SECTION 1 D.B. 8112, PG. 1168 TAX MAP 65-1 ((9)) B

SECTION 1 D.B. 8112, PG. 1168 TAX MAP 65-1 ((9)) C

OLD MILL SECTION 1 D.B. 8112, PG. 1168

LOT 1 LOT 2 LOT 3 LOT 4 LOT 5 LOT 12 LOT 13 LOT 14 LOT 15 LOT 16 LOT 17 LOT 18

COMPTON VILLAGE HOMEOWNERS ASSOCIATION D.B. 8647, PG. 634 TAX MAP 65-3 ((12)) (5) B

GREEN TRAILS HOMEOWNERS ASSOCIATION D.B. 7487, PG. 133 TAX MAP:65-3 ((4)) B

SCHOOL BOARD OF FAIRFAX COUNTY D.B. 7487, PG. 133 TAX MAP: 65-3 ((4)) A

LOT 3 LOT 4 LOT 5 LOT 6 LOT 7 LOT 8 COMPTON VILLAGE SECTION 5 D.B. 8647, PG. 634 TAX MAP 65-3 ((12)) (5) 3 / 4 / 5 / 6 / 7 / 8

Legend

- Denotes Permanent Construction This Stage
- Denotes Temporary Construction This Stage
- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
- Denotes Permanent Overlay This Stage
- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IP(5)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 3A

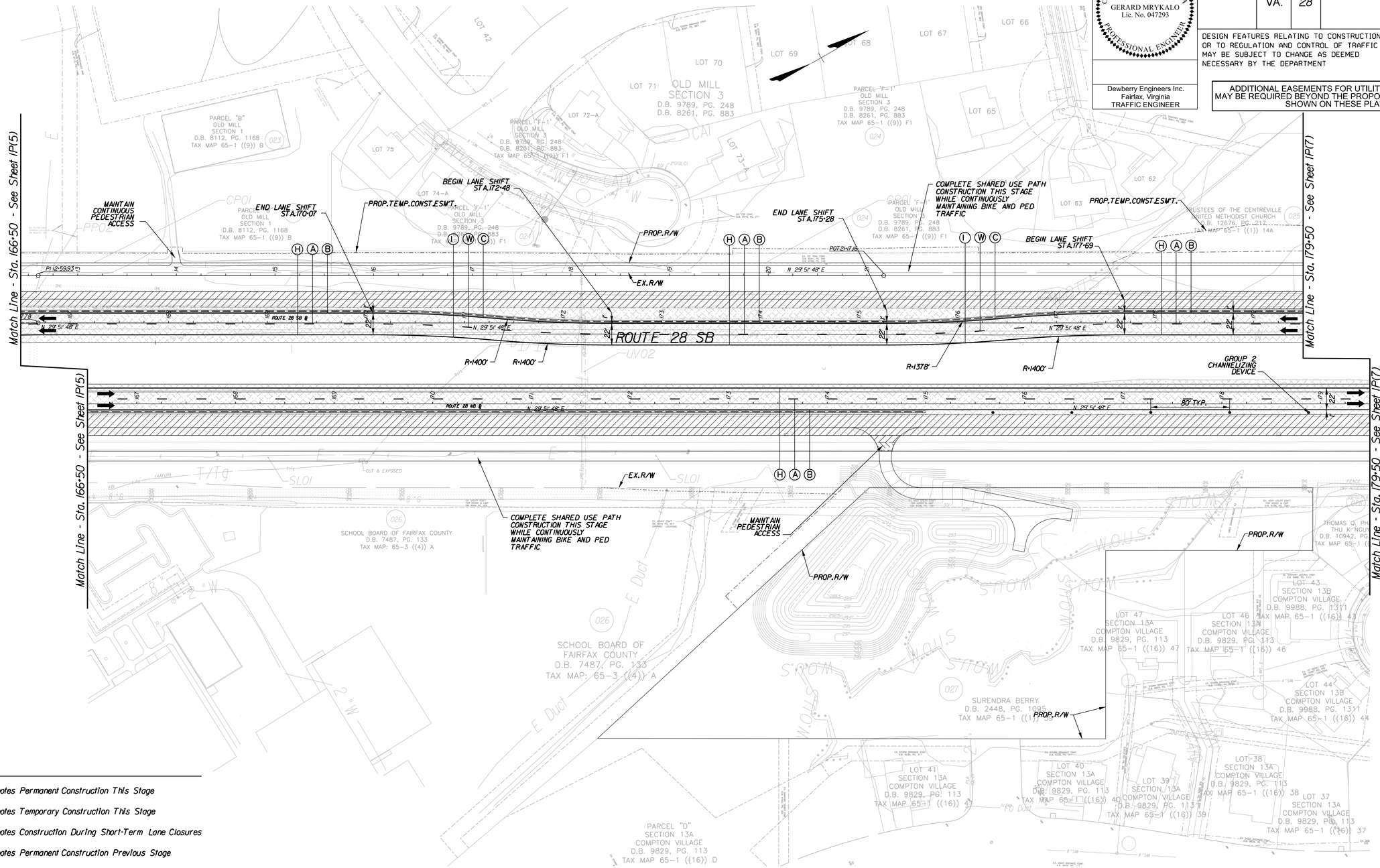
COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IP(6)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



Legend

- *Denotes Permanent Construction This Stage*
- *Denotes Temporary Construction This Stage*
- *Denotes Construction During Short-Term Lane Closures*
- *Denotes Permanent Construction Previous Stage*
- *Denotes Temporary Construction Previous Stage*
- *Denotes Permanent Overlay This Stage*
- *Traffic Barrier Service Concrete Req'd*
- *Impact Attenuator Req'd*
- *Group 2 Channelizing Device*

Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IP(6)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
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SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 3A

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IP(7)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

Match Line - Sta. 179+50 - See Sheet IP(6)

Match Line - Sta. 192+50 - See Sheet IP(8)

W24-1aL 48"X48"

PROP.TEMP.CONST.ESM'T.

PROP.R/W

EX.R/W

MAINTAIN PEDESTRIAN ACCESS

COMPLETE SHARED USE PATH CONSTRUCTION THIS STAGE WHILE CONTINUOUSLY MAINTAINING BIKE AND PED TRAFFIC

14d MIN.TAPER

IMPACT ATTENUATOR TYPE I,TL-3

GROUP 2 CHANNELIZING DEVICE

40' TYP.

ROUTE 28 SB

N 29°51'48" E

END LANE SHIFT STA.189+26

R=1422'

BEGIN LANE SHIFT STA.191+75

ROUTE 28 NB

10' TYP.

ONE WAY R6-1R 54"X18"

DARKWOOD DR

EX.R/W

POST @ 20c/c

TRUSTEES OF THE CENTREVILLE UNITED METHODIST CHURCH D.B. 12676, PG. 217 TAX MAP 65-1 ((1)) 14A

MARIA I VASQUEZ D.B. 20121, PG. 595 TAX MAP 65-1 ((1)) 8A1

CENTREVILLE ROAD LC D.B. 10710, PG. 1262 TAX MAP 65-1 ((1)) 8B

HIEN BINH TRAN AND LINH MY HUYNH D.B. 23933, PG. 9 TAX MAP 65-1 ((1)) 13

THOMAS Q. PHAM & THU K NGUYEN D.B. 10942, PG. 1026 TAX MAP 65-1 ((16)) 42

COMPTON HOMEOWNER ASSOCIATION D.B. 9781, PG. 1141 TAX MAP 65-1 ((15)) A

St. Timothys Lane

LOT 34 COMPTON VILLAGE D.B. 9781, PG. 1141 TAX MAP 65-1 ((15)) 34

LOT 38 SECTION 12 COMPTON VILLAGE D.B. 9781, PG. 1141 TAX MAP 65-1 ((15)) 38

LOT 33 SECTION 12 COMPTON VILLAGE D.B. 9781, PG. 1141 TAX MAP 65-2 ((14)) 34

LOT 28 SECTION 12 COMPTON VILLAGE D.B. 9781, PG. 1141 TAX MAP 65-2 ((14)) 28

LOT 66 SECTION 12 COMPTON VILLAGE D.B. 9781, PG. 1141 TAX MAP 65-1 ((15)) 66

LOT 65 LOT 64 LOT 63 LOT 62 SECTION 12 COMPTON VILLAGE D.B. 9781, PG. 1141 TAX MAP 65-1 ((15)) 62 LOT 61 SECTION 12 COMPTON VILLAGE D.B. 9781, PG. 1141 TAX MAP 65-1 ((15)) 61 LOT 60 LOT 59 LOT 58 SECTION 12 COMPTON VILLAGE D.B. 9781, PG. 1141 TAX MAP 65-1 ((15)) 58

LOT 57 SECTION 12 COMPTON VILLAGE D.B. 9781, PG. 1141 TAX MAP 65-1 ((15)) 57

LOT 56 LOT 55 LOT 54 LOT 53 LOT 52

LOT 50 SECTION 12 COMPTON VILLAGE D.B. 9781, PG. 1141 TAX MAP 65-1 ((15)) 50 LOT 49 LOT 48 LOT 47 LOT 46 LOT 45 LOT 44 SECTION 12 COMPTON VILLAGE D.B. 9781, PG. 1141 TAX MAP 65-1 ((15)) 44 LOT 43 SECTION 12 COMPTON VILLAGE D.B. 9781, PG. 1141 TAX MAP 65-1 ((15)) 43 LOT 42 LOT 41 LOT 40 LOT 39 SECTION 12 COMPTON VILLAGE D.B. 9781, PG. 1141 TAX MAP 65-1 ((15)) 39

LOT 37 LOT 36 LOT 35 LOT 32 LOT 31 LOT 30 LOT 29

Legend

- Denotes Permanent Construction This Stage
- Denotes Temporary Construction This Stage
- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
- Denotes Permanent Overlay This Stage
- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IP(7)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 3A

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IP(8)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

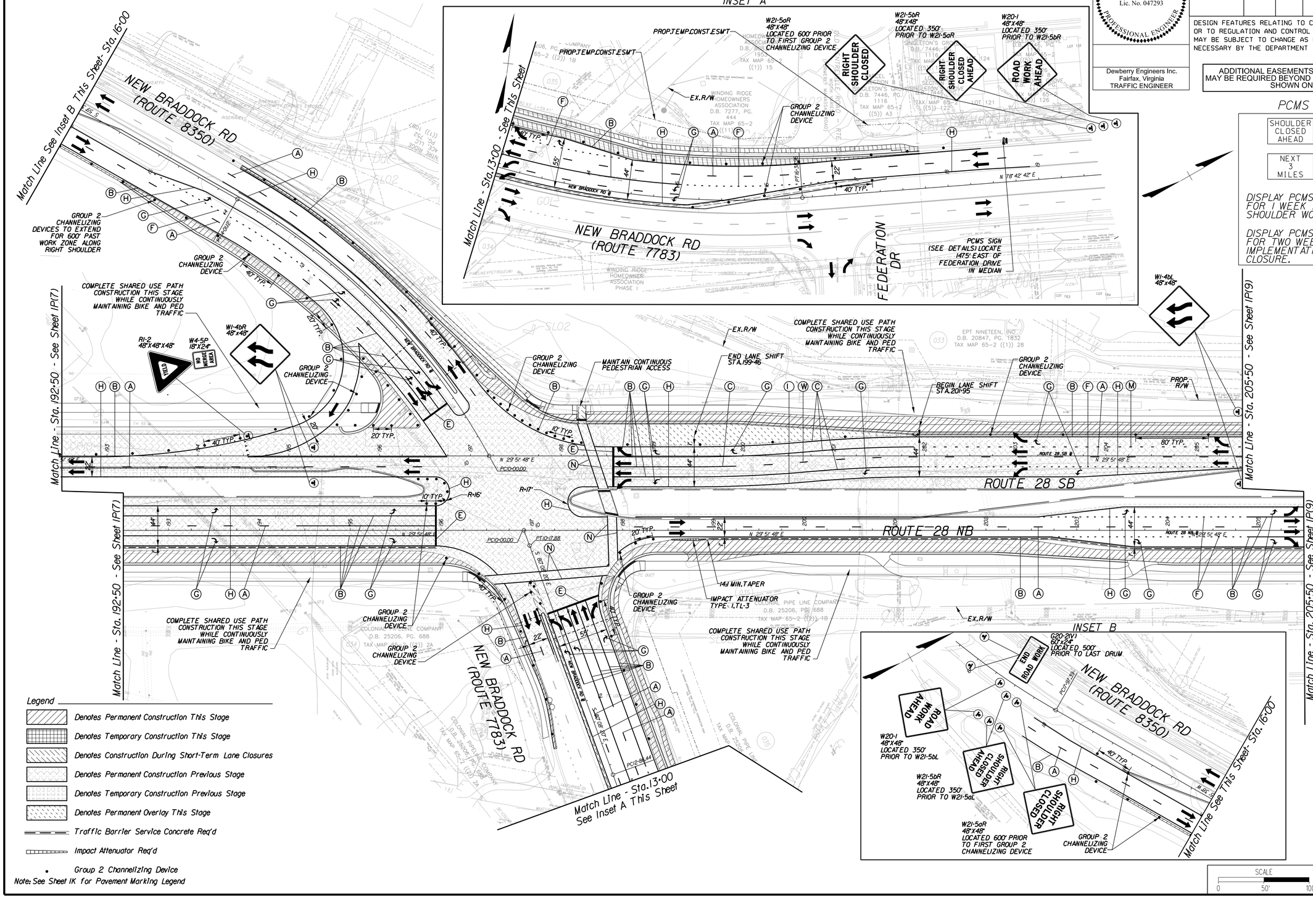
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

PCMS SIGN DETAILS

SHOULDER CLOSED AHEAD	ROAD WORK AHEAD
NEXT 3 MILES	SHOULDER CLOSED

DISPLAY PCMS MESSAGES 1A AND 1B FOR 1 WEEK AHEAD OF THE SHOULDER WORK.

DISPLAY PCMS MESSAGES 2A AND 2B FOR TWO WEEKS FOLLOWING THE IMPLEMENTATION OF THE SHOULDER CLOSURE.



Legend

- Denotes Permanent Construction This Stage
- Denotes Temporary Construction This Stage
- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
- Denotes Permanent Overlay This Stage
- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IP(8)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
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TEMPORARY TRAFFIC CONTROL STAGE 3A

Machen Rd Detour Plan - Stage 3A

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IP(9A)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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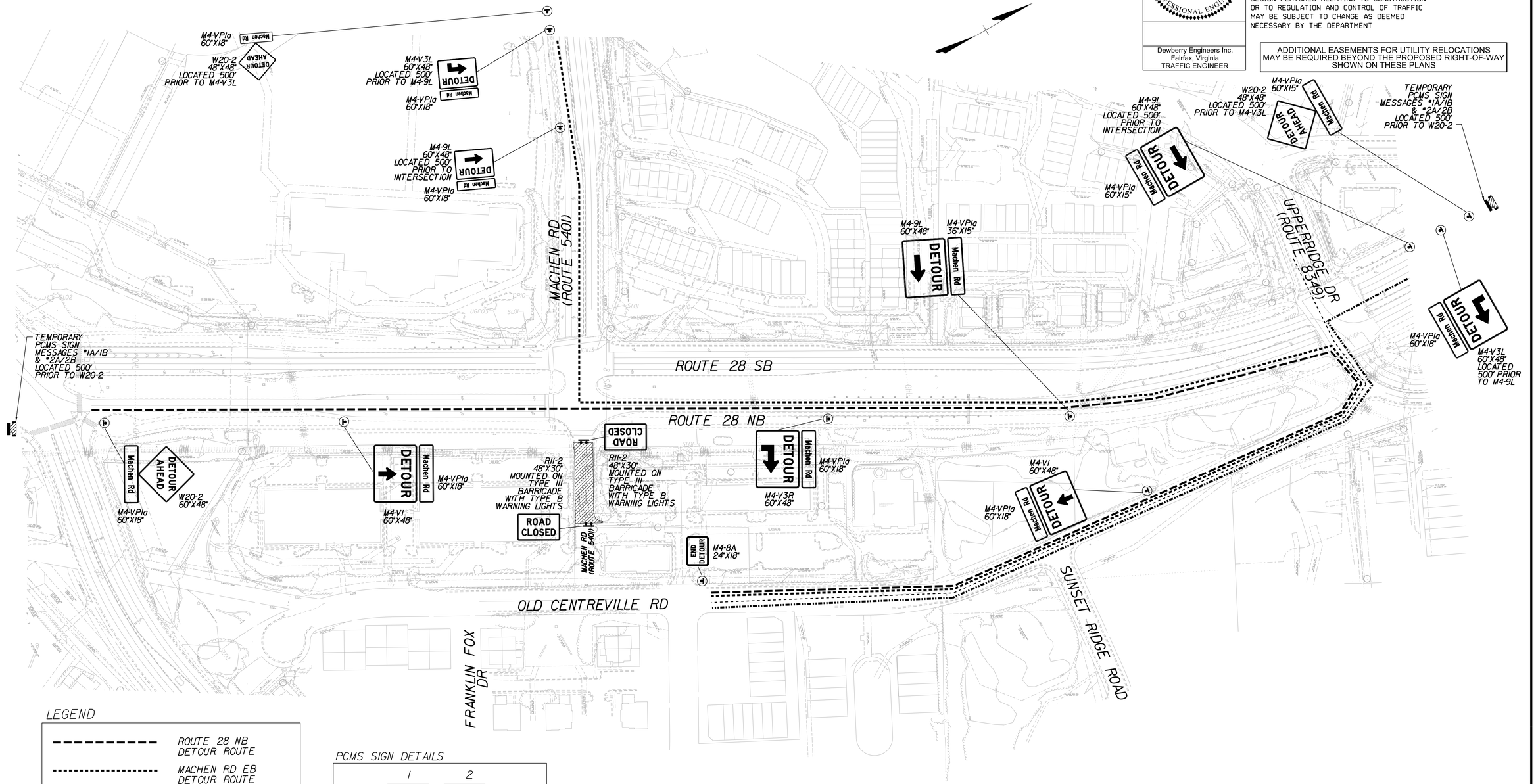

LEGEND

- ROUTE 28 NB DETOUR ROUTE
- MACHEN RD EB DETOUR ROUTE
- ROUTE 28 SB DETOUR ROUTE
- OLD CENTREVILLE RD EB DETOUR ROUTE
- PCMS SIGN
- ROAD CLOSURE

PCMS SIGN DETAILS

	1	2
A	MACHEN ROAD TO CLOSE	MACHEN ROAD CLOSED
B	ON OR ABOUT XX/XX	FOLLOW DETOUR

DISPLAY PCMS MESSAGES 1A AND 1B PRIOR TO CLOSING MACHEN ROAD FOR A DURATION OF ONE WEEK.

DISPLAY PCMS MESSAGES 2A AND 2B FOR A DURATION OF ONE WEEK AFTER CLOSURE.

SCALE	PROJECT	SHEET NO.
0 100' 200'	0028-029-269	IP(9A)

Dewberry

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TEMPORARY TRAFFIC CONTROL STAGE 3A

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IP(9)

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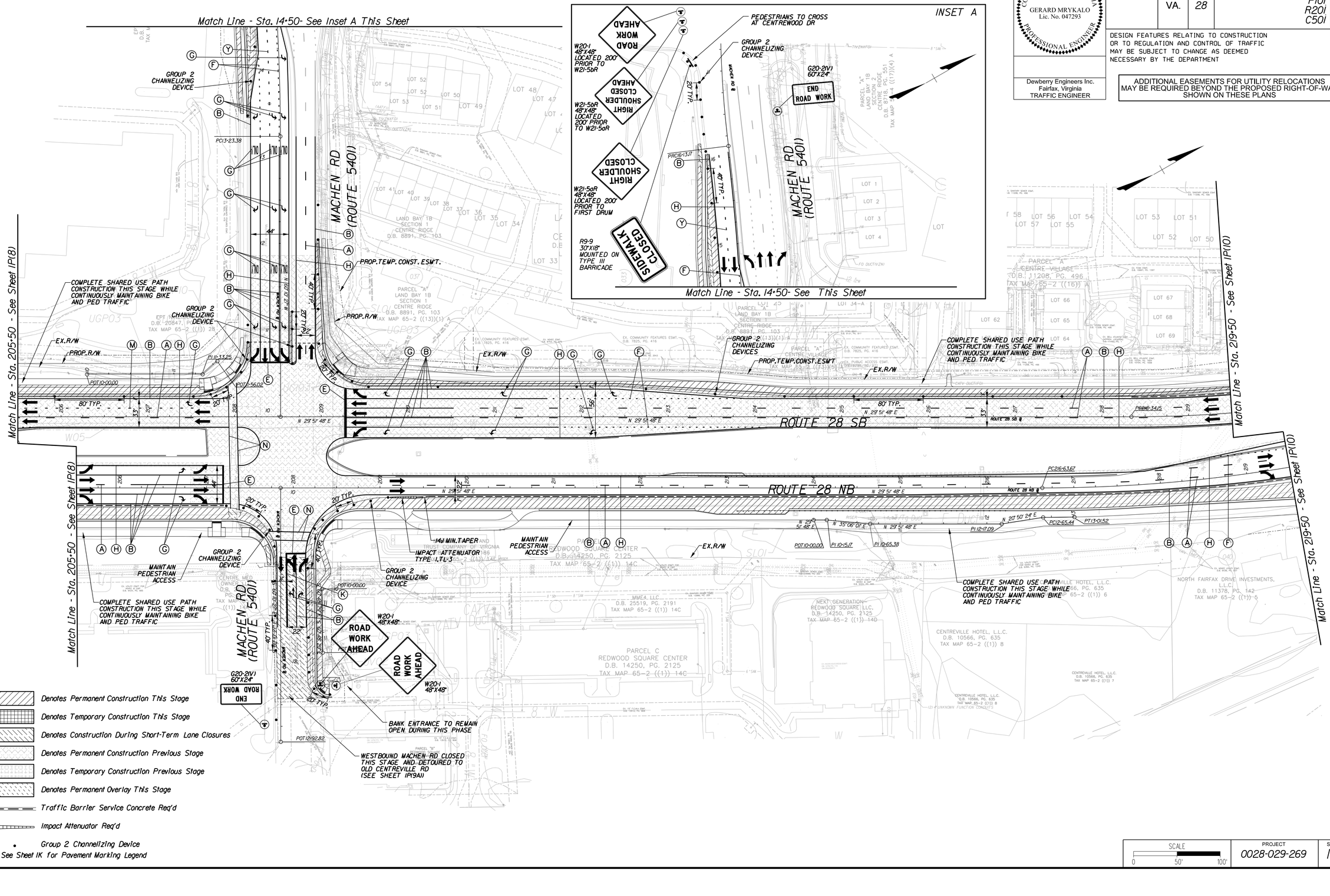

Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IP(9)

Dewberry

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TEMPORARY TRAFFIC CONTROL STAGE 3A

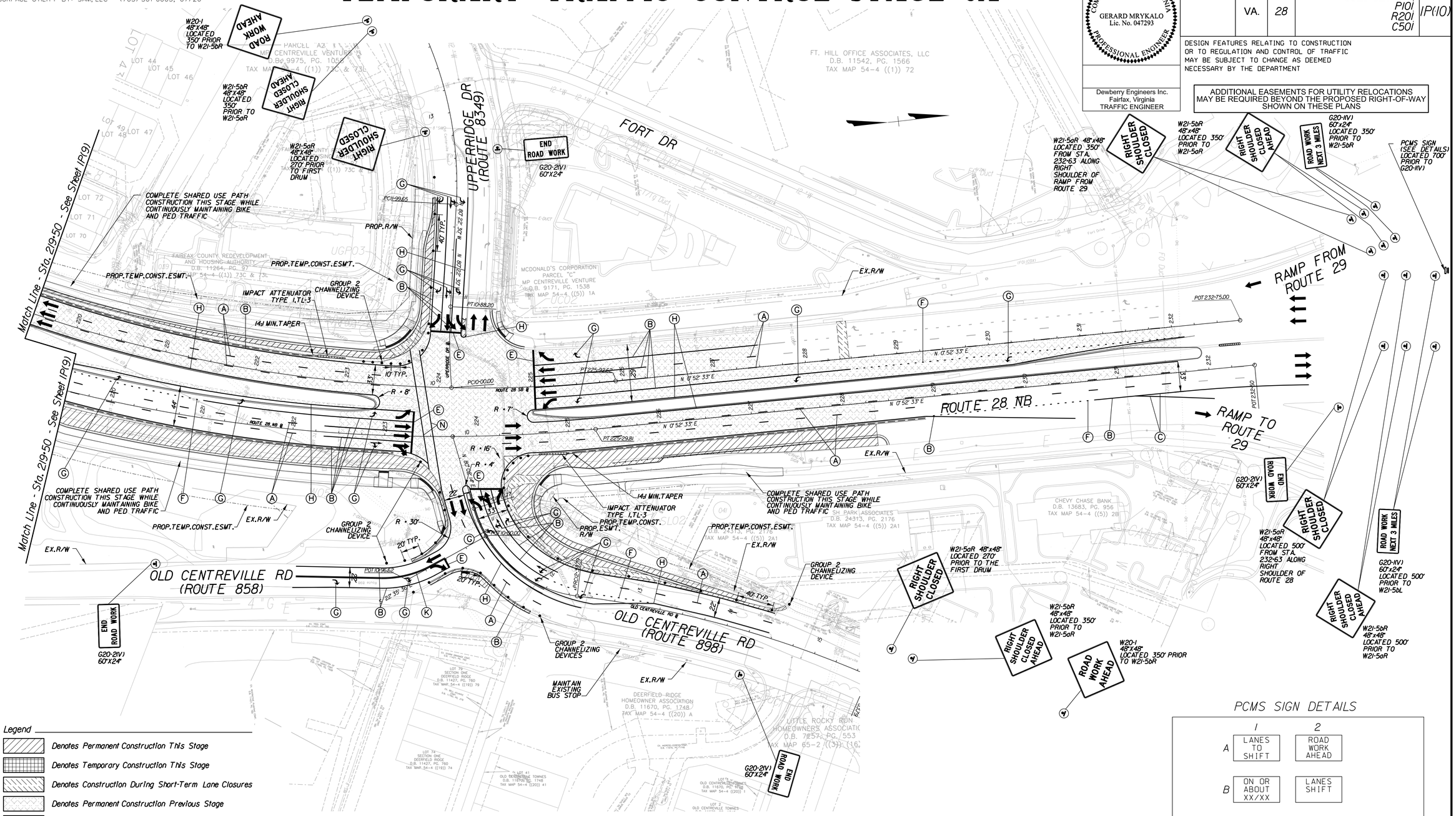
COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IP(10)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



PCMS SIGN DETAILS

	1	2
A	LANES TO SHIFT	ROAD WORK AHEAD
B	ON OR ABOUT XX/XX	LANES SHIFT

DISPLAY PCMS MESSAGES 1A AND 1B 1 WEEK PRIOR TO LANE SHIFT.

DISPLAY PCMS MESSAGES 2A AND 2B FOR 2 WEEKS FOLLOWING THE IMPLEMENTATION OF THE LANE SHIFT.

Legend

- Denotes Permanent Construction This Stage
- Denotes Temporary Construction This Stage
- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
- Denotes Permanent Overlay This Stage
- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

ADDITIONAL PCMS SIGNS

1. PCMS SIGN (SEE DETAILS) LOCATED ON I-66W NEAR AUDREY DRIVE ALONG THE RIGHT SHOULDER.
2. PCMS SIGN (SEE DETAILS) LOCATED 700' UPSTREAM OF THE GORE ALONG THE RIGHT SHOULDER ON 28 SOUTHBOUND
3. PCMS SIGN (SEE DETAILS) LOCATED ON EASTBOUND ROUTE 29 NEAR CENTREWOOD DRIVE ALONG THE RIGHT SHOULDER.
4. PCMS SIGN (SEE DETAILS) LOCATED ON WESTBOUND ROUTE 29 800' WEST OF BRADDOCK ROAD/ OLD CENTREVILLE ROAD.

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IP(10)

2/11/2021
5:52:26 PM

T108720-IP(II).dgn
Plotted By: mvivona

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 3A

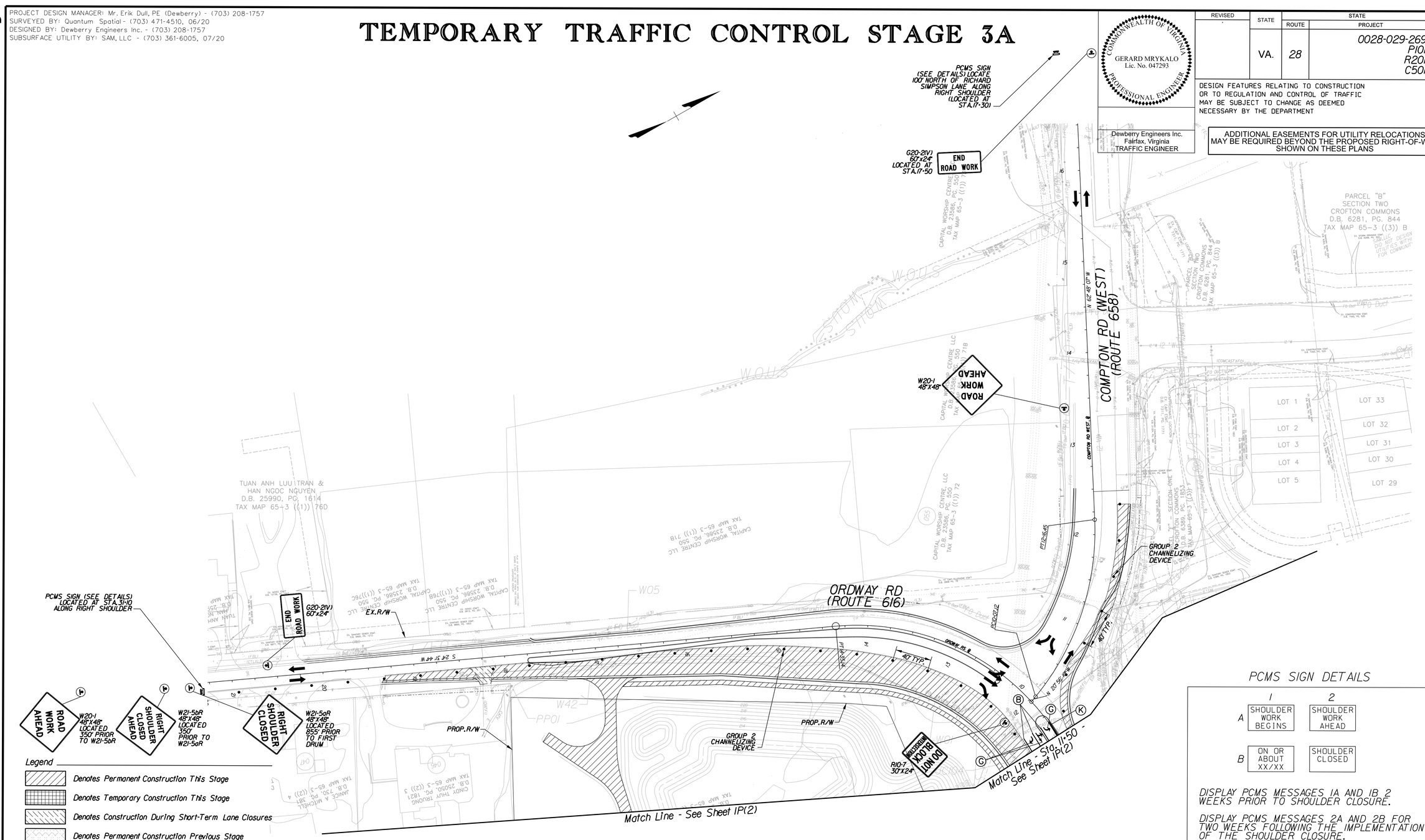
COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IP(II)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



Legend

- Denotes Permanent Construction This Stage
- Denotes Temporary Construction This Stage
- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
- Denotes Permanent Overlay This Stage
- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

PCMS SIGN DETAILS

	1	2
A	SHOULDER WORK BEGINS	SHOULDER WORK AHEAD
B	ON OR ABOUT XX/XX	SHOULDER CLOSED

DISPLAY PCMS MESSAGES 1A AND 1B 2 WEEKS PRIOR TO SHOULDER CLOSURE.

DISPLAY PCMS MESSAGES 2A AND 2B FOR TWO WEEKS FOLLOWING THE IMPLEMENTATION OF THE SHOULDER CLOSURE.

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IP(II)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 3B

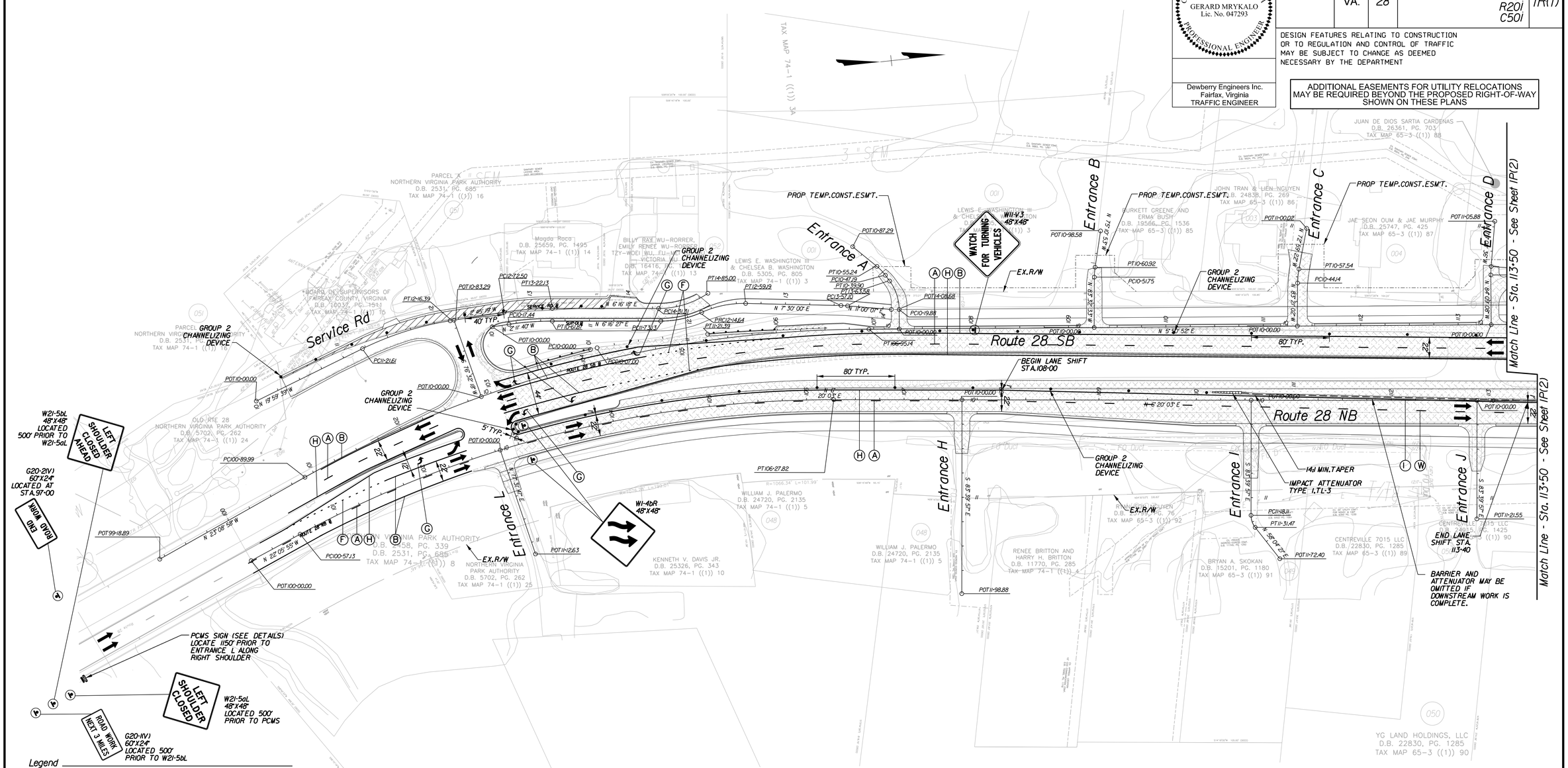
COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IR(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



Legend

- Denotes Permanent Construction This Stage
- Denotes Temporary Construction This Stage
- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- • Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

PCMS SIGN DETAILS

	1	2
A	LANES TO SHIFT RIGHT	ROAD WORK AHEAD
B	ON OR ABOUT XX/XX	LANES SHIFT RIGHT

DISPLAY PCMS MESSAGES 1A AND 1 WEEK PRIOR TO SHOULDER CLOSURE.

DISPLAY PCMS MESSAGES 2A AND 2B FOR TWO WEEKS FOLLOWING THE IMPLEMENTATION OF THE LANE SHIFT.

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IR(1)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
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SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 3B

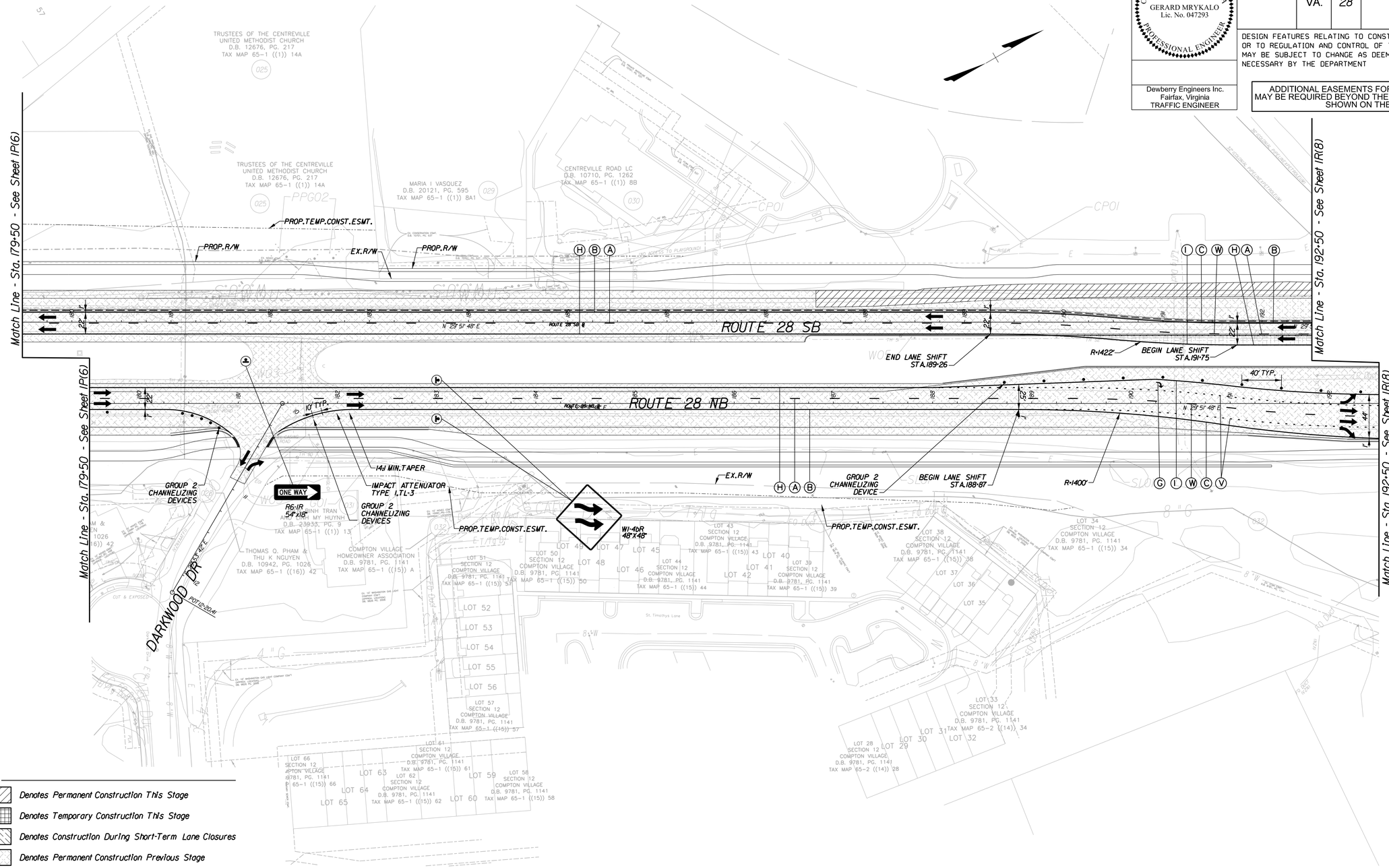
COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IR(7)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



Legend

- *Denotes Permanent Construction This Stage*
- *Denotes Temporary Construction This Stage*
- *Denotes Construction During Short-Term Lane Closures*
- *Denotes Permanent Construction Previous Stage*
- *Denotes Temporary Construction Previous Stage*
- *Traffic Barrier Service Concrete Req'd*
- *Impact Attenuator Req'd*
- *Group 2 Channelizing Device*

Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IR(7)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
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TEMPORARY TRAFFIC CONTROL STAGE 3B

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IR(8)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

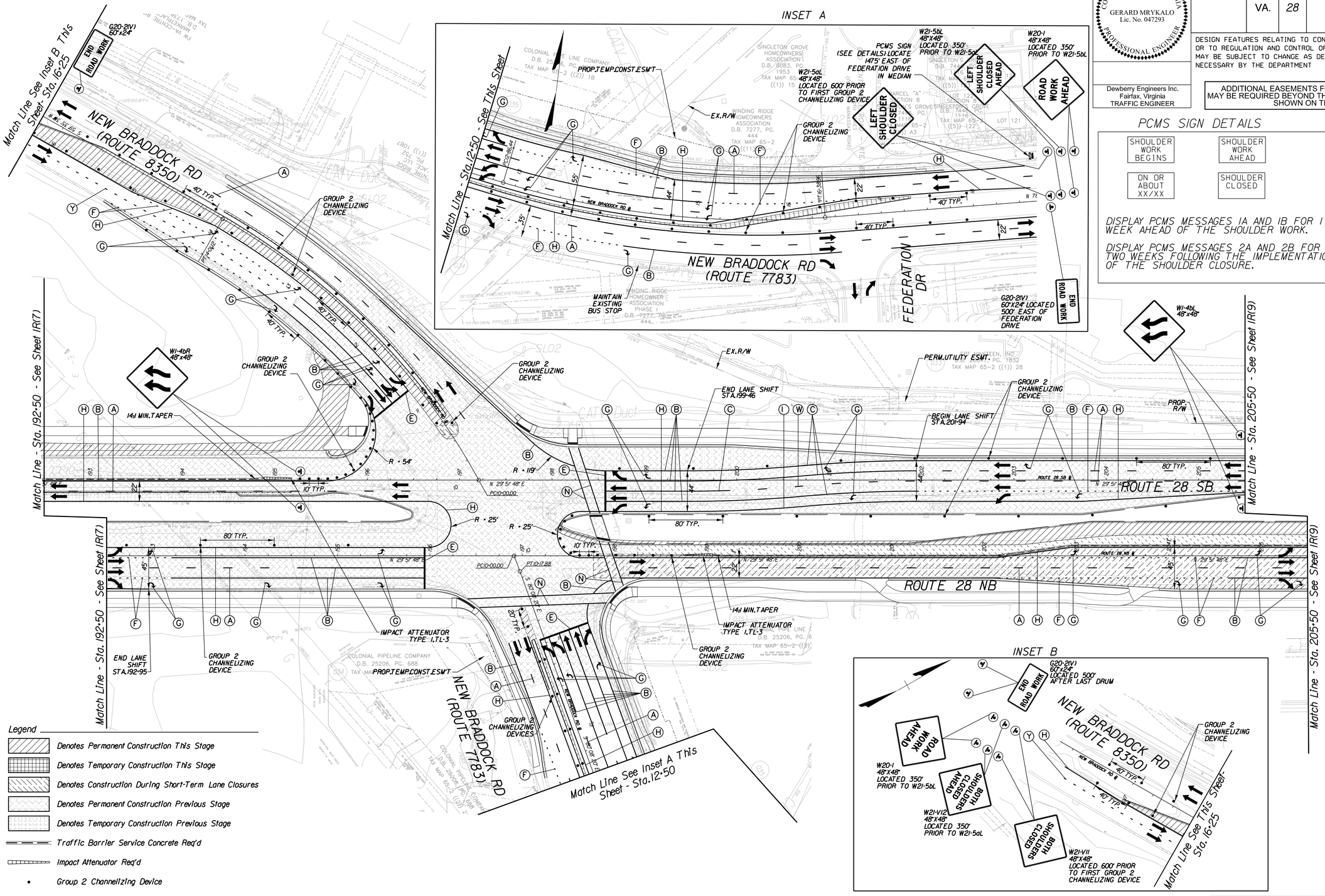
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

PCMS SIGN DETAILS

SHOULDER WORK BEGINS	SHOULDER WORK AHEAD
ON OR ABOUT XX/XX	SHOULDER CLOSED

DISPLAY PCMS MESSAGES 1A AND 1B FOR 1 WEEK AHEAD OF THE SHOULDER WORK.

DISPLAY PCMS MESSAGES 2A AND 2B FOR TWO WEEKS FOLLOWING THE IMPLEMENTATION OF THE SHOULDER CLOSURE.



Legend

- Denotes Permanent Construction This Stage
- Denotes Temporary Construction This Stage
- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- • Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IR(8)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
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SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 3B

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
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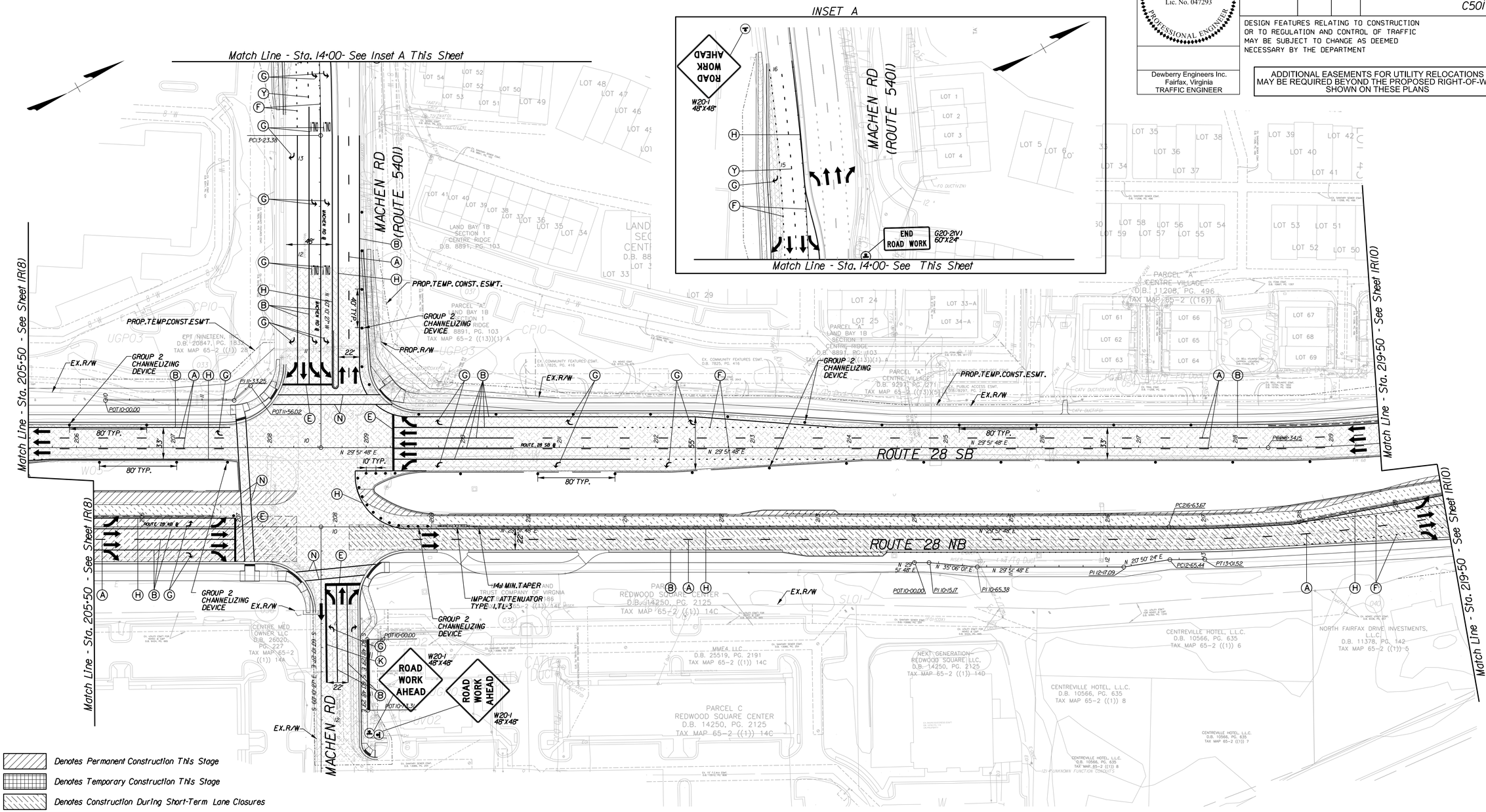
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IR(9)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IR(9)

Dewberry

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TEMPORARY TRAFFIC CONTROL STAGE 3B

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
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PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IR(10)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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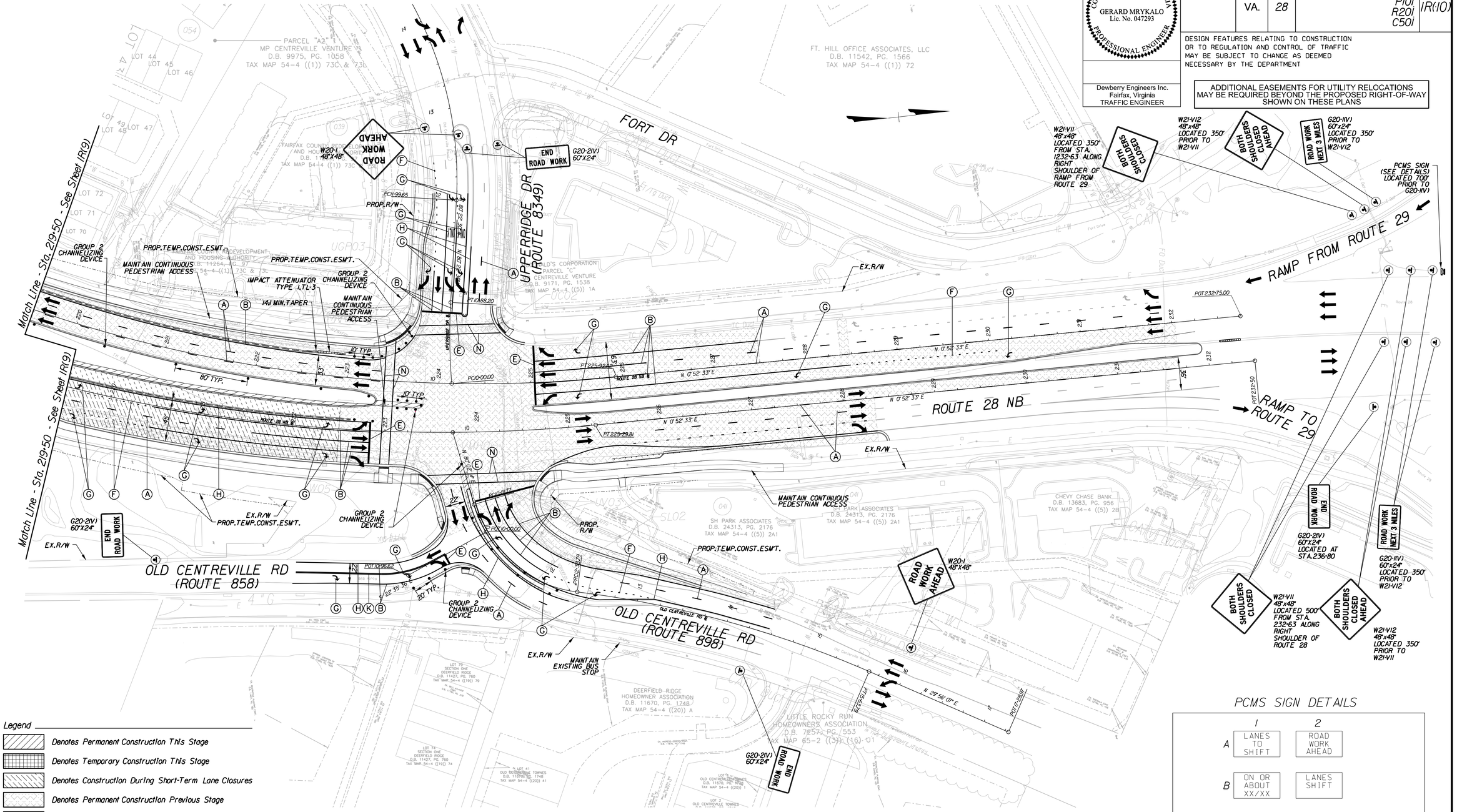

PCMS SIGN DETAILS

	1	2
A	LANES TO SHIFT	ROAD WORK AHEAD
B	ON OR ABOUT XX/XX	LANES SHIFT

DISPLAY PCMS MESSAGES 1A AND 1B 1 WEEK PRIOR TO SHOULDER CLOSURE.

DISPLAY PCMS MESSAGES 2A AND 2B FOR TWO WEEKS FOLLOWING THE IMPLEMENTATION OF THE LANE SHIFT.

Legend

- Denotes Permanent Construction This Stage
- Denotes Temporary Construction This Stage
- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- • Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

ADDITIONAL PCMS SIGNS

1. PCMS SIGN (SEE DETAILS) LOCATED ON I-66W NEAR AUDREY DRIVE ALONG THE RIGHT SHOULDER.
2. PCMS SIGN (SEE DETAILS) LOCATED 700' UPSTREAM OF THE GORE ALONG THE RIGHT SHOULDER ON 28 SOUTHBOUND
3. PCMS SIGN (SEE DETAILS) LOCATED ON EASTBOUND ROUTE 29 NEAR CENTREWOOD DRIVE ALONG THE RIGHT SHOULDER.
4. PCMS SIGN (SEE DETAILS) LOCATED ON WESTBOUND ROUTE 29 800' WEST OF BRADDOCK ROAD/ OLD CENTREVILLE ROAD.

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IR(10)

2/11/2021
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Plotted By: mvivona

Dewberry

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SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL STAGE 3B

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
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PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
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TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IR(II)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

PCMS SIGN (SEE DETAILS) LOCATE 100' NORTH OF RICHARD SIMPSON LANE ALONG RIGHT SHOULDER (LOCATED AT STA.17+30)

ROAD WORK AHEAD
W20-1 48"X48" LOCATED 500' PRIOR TO FIRST DRUM

PARCEL "B" SECTION TWO CROFTON COMMONS D.B. 6281, PG. 844 TAX MAP 65-3 ((3)) B

SAM-LLC DESIGN DID NOT LOCATE UTILITIES WITHIN FOR COMMUNITY

COMPTON RD (WEST) (ROUTE 658)

END ROAD WORK
G20-2(V) 60"x24"

LOT 1
LOT 2
LOT 3
LOT 4
LOT 5
LOT 33
LOT 32
LOT 31
LOT 30
LOT 29

TUAN ANH LUU TRAN & HAN NGOC NGUYEN D.B. 25990, PG. 1614 TAX MAP 65-3 ((1)) 76D

ISHWAR RYAN MAHEEPAT D.B. 23712, PG. 241 TAX MAP 65-3 ((1)) 76E

CAPITAL WORSHIP CENTRE, LLC D.B. 23586, PG. 550 TAX MAP 65-3 ((1)) 71B

GROUP 2 CHANNELIZING DEVICE

END ROAD WORK
G20-2(V) 60"x24" LOCATED 500' AFTER THE LAST DRUM

EX.R/W

ORDWAY RD (ROUTE 616)

ROAD WORK AHEAD
W20-1 48"X48"

PROP.R/W

RIO-7 30"x24" WATERWORK BLOCK DO NOT

PCMS SIGN (SEE DETAILS) LOCATE 890' SOUTH OF STA.20+00 ALONG RIGHT SHOULDER

Match Line - Sta. 11+50 See Sheet IP(2)

Match Line - See Sheet IP(2)

PCMS SIGN DETAILS

I
A — SHOULDER WORK AHEAD
B — SHOULDER CLOSED

DISPLAY PCMS MESSAGES IA AND IB 2 WEEKS PRIOR TO SHOULDER CLOSURE.

Legend

- Denotes Permanent Construction This Stage
- Denotes Temporary Construction This Stage
- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-029-269	IR(II)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS AND DETAILS

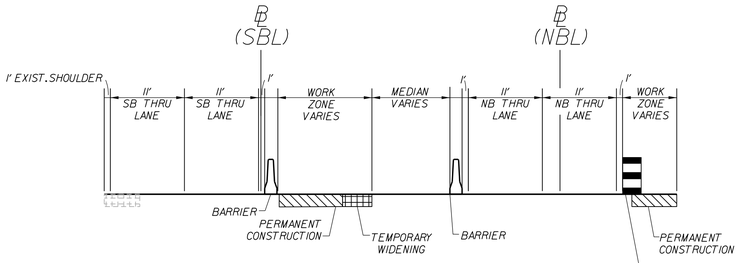
COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

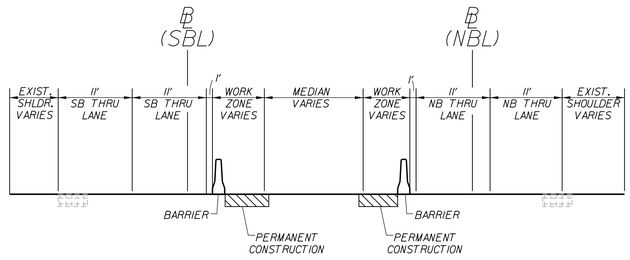
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IS(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

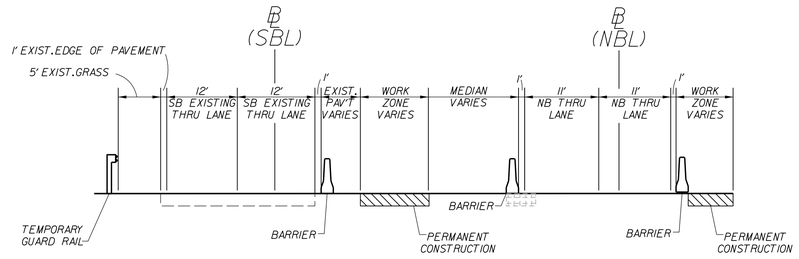
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



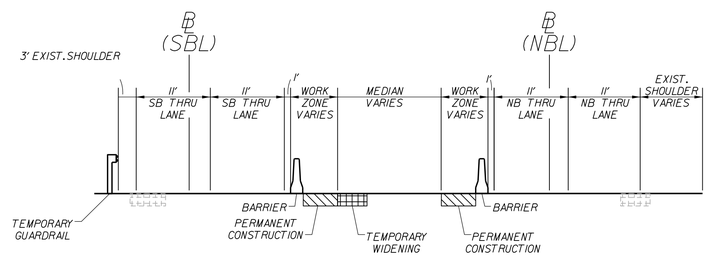
ROUTE 28
STAGE 1B
SB STA. 109+30
NB STA. 109+00



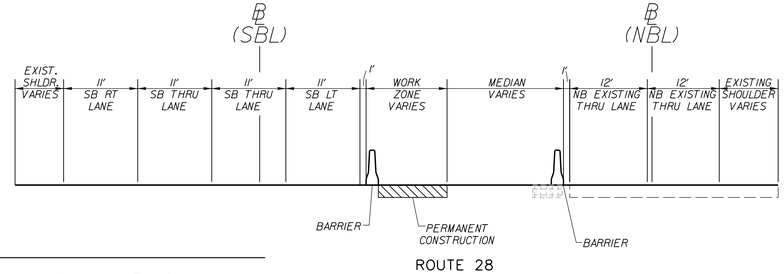
ROUTE 28
STAGE 1B
SB STA. 169+68
NB STA. 169+00



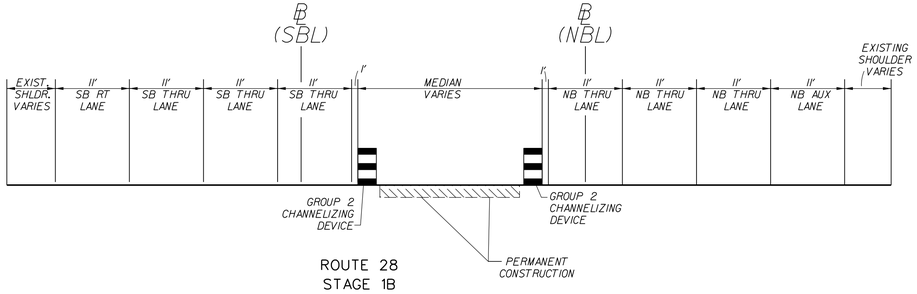
ROUTE 28
STAGE 1B
SB STA. 115+31
NB STA. 115+00



ROUTE 28
STAGE 1B
SB STA. 172+68
NB STA. 172+00



ROUTE 28
STAGE 1B
SB STA. 200+67
NB STA. 200+00



ROUTE 28
STAGE 1B
SB STA. 230+36
NB STA. 230+00

Legend

- Denotes Permanent Construction This Stage
- Denotes Temporary Construction This Stage
- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
- • Group 2 Channelizing Device
- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd

Note: See Sheet IK for Pavement Marking Legend

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
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TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS AND DETAILS

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

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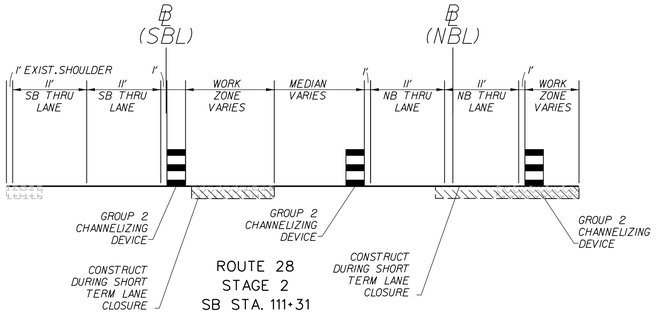
Fairfax, Virginia
TRAFFIC ENGINEER

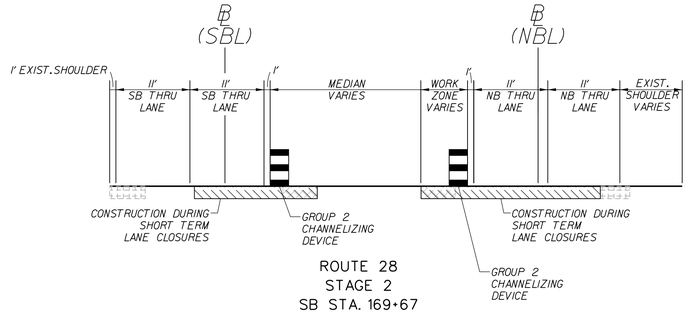
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	1S(3)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

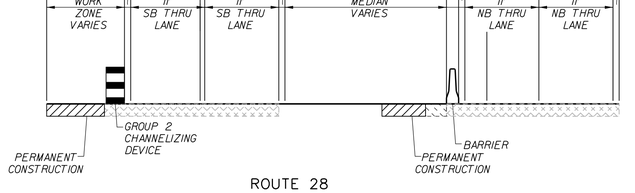
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



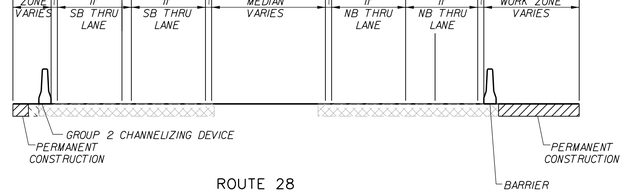
ROUTE 28
STAGE 2
SB STA. 111+31
NB STA. 111+00



ROUTE 28
STAGE 2
SB STA. 169+67
NB STA. 169+00



ROUTE 28
STAGE 3A
SB STA. 111+31
NB STA. 111+00



ROUTE 28
STAGE 3A
SB STA. 169+67
NB STA. 169+00

Legend

- Denotes Permanent Construction This Stage
- Denotes Temporary Construction This Stage
- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
- Denotes Permanent Overlay This Stage
- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- Group 2 Channelizing Device

Note: See Sheet 1K for Pavement Marking Legend

N.T.S.	PROJECT 0028-029-269	SHEET NO. 1S(3)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TEMPORARY TRAFFIC CONTROL TYPICAL SECTIONS AND DETAILS

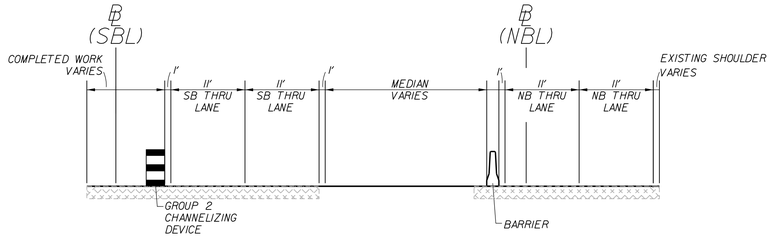
COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

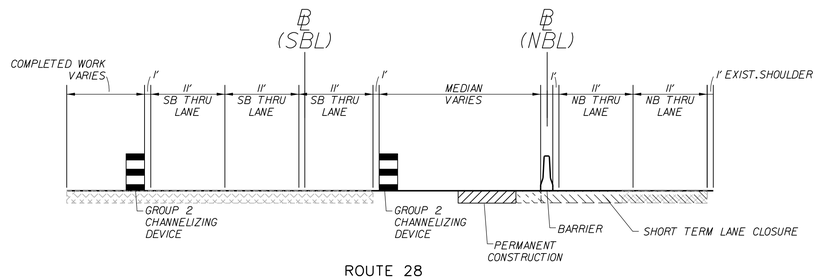
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IS(3)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



ROUTE 28
STAGE 3B
SB STA. 111+31
NB STA. 111+00



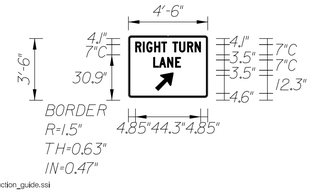
ROUTE 28
STAGE 3B
SB STA. 215+67
NB STA. 215+00

Legend

- Denotes Permanent Construction This Stage
- Denotes Temporary Construction This Stage
- Denotes Construction During Short-Term Lane Closures
- Denotes Permanent Construction Previous Stage
- Denotes Temporary Construction Previous Stage
- Denotes Permanent Overlay This Stage
- Traffic Barrier Service Concrete Req'd
- Impact Attenuator Req'd
- • Group 2 Channelizing Device

Note: See Sheet IK for Pavement Marking Legend

SIGN DETAIL
1:50



SIGN NUMBER	Temporary 01
WIDTH x HGHT.	4'-6" x 3'-6"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground Mount
BACKGROUND	TYPE: Reflective
	COLOR: Orange
LEGEND/BORDER	TYPE: Non-Reflective
	COLOR: Black

SYMBOL	ROT	X	Y	WID	HT
ARMED	45	18.4	4.7	10	15.8

Panel Style: construction_guide.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

R	I	G	H	T	T	U	R	N										LENGTH	SERIES-SIZE
4.8	9.9	12.3	17.6	22.5	30.1	34.7	40.1	45.2										44.3	C 2000 7
L	A	N	E																C 2000
17.1	21	26.5	32															18.5	7

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TRANSPORTATION MANAGEMENT PLAN

PAGES 1 - 3

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IU(1)

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TRANSPORTATION MANAGEMENT PLAN

Route 28 (Centreville Road) Widening

SHIRLEY CONTRACTING COMPANY, LLC

Dewberry

February 2021

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LIST OF FIGURES

NOTE: DUE TO THE CURRENT STATE OF EMERGENCY DECLARED BY THE GOVERNOR, ALL WORK ZONE TRAFFIC CONTROL CERTIFICATIONS SCHEDULED TO EXPIRE BETWEEN MARCH AND DECEMBER 2020, ARE GRANTED A ONE-YEAR EXTENSION FROM THEIR ORIGINAL EXPIRATION DATE.
SOURCE:
HTTP://WWW.VIRGINIADOT.ORG/BUSINESS/TRAFFICENG-WZS.ASP

WORK ZONE TRAINING CERTIFICATION

Commonwealth of Virginia
Virginia Department of Transportation VDOT

VERIFICATION OF COMPLETION OF
ADVANCED WORK ZONE TRAFFIC CONTROL TRAINING

This is to verify that **Gerard Mrykalo** has successfully completed training and an examination by the Department on the proper practices and methods for the installation, maintenance and removal of temporary traffic control devices.

Date: 8/25/2016

State Traffic Engineer

Verification No. : 082516042 Expiration Date: 8/31/2020

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TRANSPORTATION MANAGEMENT PLAN

PAGES 4 - 6

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

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-	VA.	28	0028-029-269 P101 R201 C501	IU(2)

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LIST OF TABLES

ABBREVIATIONS & TERMINOLOGY

ADT	Average Daily Traffic
E&S	Erosion and Sediment Control
FCDOT	Fairfax County Department of Transportation
HOA	Homeowners Association
LCAMS	Lane Closure Advisory Management System
LCR	Lane and Shoulder Closure Request
LOS	Level of Service
MOE	Measure of Effectiveness
MOT	Maintenance of Traffic
MPH	Miles Per Hour
MUTCD	Manual on Uniform Traffic Control Devices
NRO	VDOT Northern Region Operations
PCMS	Portable Changeable Message Sign
RFP	Request for Proposal
RPM	Raised Pavement Marker
Rt. 28	Virginia Route 28 – Centreville Road
Rt. 5401	Virginia Route 5401– Machen Road
Rt. 616	Virginia Route 616 – Ordway Road
Rt. 658	Virginia Route 658 – Compton Road
Rt. 7783	Virginia Route 7783 – New Braddock Road
Rt. 8024	Virginia Route 8024 – Green Trails Boulevard
Rt. 8349	Virginia Route 8349 – Upperridge Drive
Rt. 8350	Virginia Route 8350 – New Braddock Road
Rt. 8591	Virginia Route 8591 – Old Mill Road
Rt. 8882	Virginia Route 8882 – Bradenton Drive
Rt. 8885	Virginia Route 8885 – Tallavast Drive
Rt. 898	Virginia Route 898 – Old Centreville Road
I-66	Interstate 66
Sta.	Station
TCP	Traffic Control Plan
TMA	Truck Mounted Attenuator
TMP	Transportation Management Plan
TOC	Traffic Operations Center
TTC	Typical Traffic Control or Temporary Traffic Control
WAPM	Virginia Work Area Protection Manual
VDOT	Virginia Department of Transportation

I.

INTRODUCTION

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated: 6-17-2020

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
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TRANSPORTATION MANAGEMENT PLAN

PAGES 7 - 9

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

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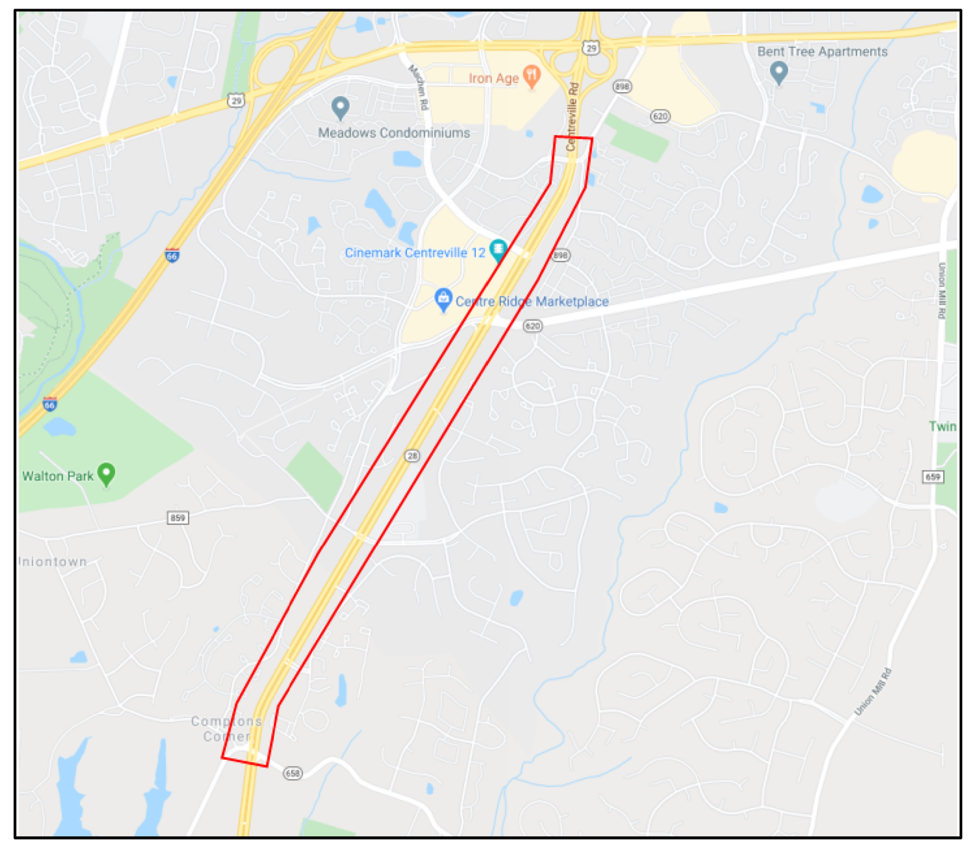
Introduction

This Transportation Management Plan (TMP) was developed based on the Virginia Department of Transportation's "IIM-241.7 – Transportation Management Plan Requirements" dated January 3, 2017. These requirements satisfy the Federal Highway Administration's final rule on Work Zone Safety and Mobility, 23 CFR 630 Subpart J. Per IIM-241.7, this project is a Type B Category IV (significant) project. The purpose of this TMP is to identify work zone impacts in an effort to promote work zone mobility in a manner that is safe for motorists, pedestrians, and construction personnel.

This project includes the widening of Route 28 from south of Compton Road in Fairfax, VA to north of Upperridge Drive/Old Centreville Road in Fairfax, Virginia. This existing 2.3-mile-long two-lane section of Route 28 experiences significant congestion.

Project goals include relieving congestion and improving safety. This is a design-build project to be constructed by Shirley Contracting Company, LLC, and designed by Dewberry Engineers Inc.

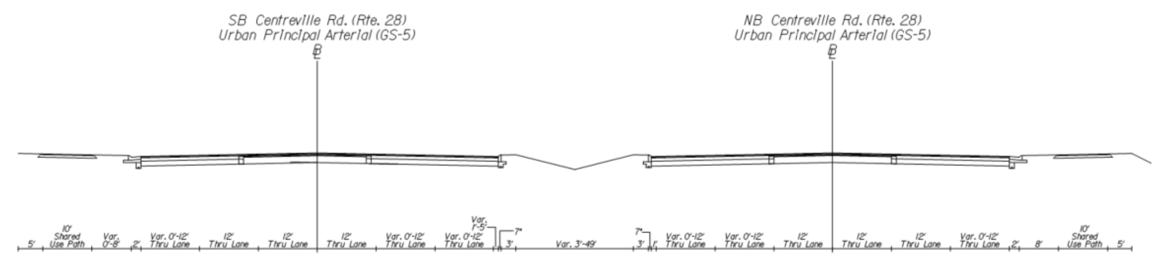
Figure 1: Project Location Map



Route 28 will be widened from the existing 4-lane section to a 6-lane section between Compton Road and Upperridge Drive/Old Centreville Road with provisions for future widening to 8-lanes. Proposed lanes will be 12' wide. Figure 2 below shows the proposed Route 28 typical section.

All existing traffic signals within the project limits will be modified to accommodate the additional thru lanes. The intersections with Route 28 to receive new signals or signal modifications are at Compton Road (Route 658), Green Trails Boulevard/Old Mill Rd (Route 619), New Braddock Road (Route 7783/8350), Machen Road (Route 5401), and Upperridge Drive/Old Centreville Road (Route 8349/898).

Figure 2: Proposed Typical Section



Route 28 (Centreville Road) is classified as an "Urban Principal Arterial" within the project limits, with a design speed of 50 mph and a posted speed limit of 45 mph. Route 28 is a 47 mile long Virginia Primary Route beginning at Catlett Road (US 29/15) in Bealeton, VA and ending at Harry Bryd Highway (Route 7) in Sterling, Va. Primary travelers within the project limits include commuters, commercial, and local traffic. See the Transportation Operations Plan section of this TMP for the Route 28 (Centreville Road) traffic and travel characteristics.

Additional intersecting streets included in this project (from south to north) are:

Compton Road (Route 658), Bradenton Drive (Route 8882), Tallavast Drive (Route 8885), Old Mill Rd / Green Trails Boulevard (Route 8591/Route 8024), Darkwood Drive, New Braddock Road (Route 7783/8350), Machen Road (Route 5401), and Upperridge Drive/Old Centreville Road (Route 8349/898).

II.

TEMPORARY TRAFFIC CONTROL PLAN

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
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TRANSPORTATION MANAGEMENT PLAN

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COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

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Temporary Traffic Control Plan

Site specific detailed temporary traffic control plans (TTC plans) have been developed for each stage of construction in accordance with the Virginia Department of Transportation's IIM-241.7, the VDOT Road and Bridge Specifications dated January 2016, the Virginia Work Area Protection Manual dated 2011, the Manual on Uniform Traffic Control Devices (MUTCD), 2009 Edition, and the VDOT Road and Bridge Standards dated 2016.

The traffic control plans are found in the construction plan set, and include a detailed sequence of construction, general notes, typical sections, pedestrian accommodations, temporary drainage, temporary signing and marking, temporary signalization, and all other requirements for a Type B project. Major goals in development of the traffic control plans were to maximize traveler mobility and access, and to maximize vehicular, pedestrian, and worker safety. The general sequence of construction is described below.

Stage 1A: Refer to Advance Set Transportation Management Plan for details.

Construct temporary widening during short-term lane closures on Route 28 southbound outside shoulder, Route 28 northbound inside shoulder from Compton Road to Old Mill Road/Green Trails Boulevard and from New Braddock Road to Upperridge Drive/Old Centreville Road. Construct Route 28 northbound outside shoulder from Old Mill Road/Green Trails Boulevard to New Braddock Road to prepare for Stage 1B lane shifts and permanent construction activities. The anticipated duration of Stage 1A is 6 Months starting in January 2021

Stage 1B: From the southern end of the project south of Compton Road shift traffic onto the temporary pavement constructed in Stage 1A. Construct permanent roadway widening work on the outside of northbound Route 28 from Compton Road to Old Mill Road/Green Trails Boulevard.

The inside permanent roadway for northbound is to be constructed from Old Mill Road/Green Trails Boulevard to New Braddock Road. Southbound Route 28 the permanent widening is to be constructed along the inside of the existing lanes. Also, temporary pavement is be added along the inside of southbound to prepare for Stage 3A lane shifts and permanent construction activities.

The medians at Tallavast Drive and Bradenton Drive are also be constructed in this stage. The existing medians at the intersections of Machen Road and Upperridge Drive/Old Centreville Road will be removed in this stage. The new shared use path along northbound Route 28 is to be constructed while maintaining the existing path at all times.

The anticipated duration of Stage 1B is 10 months starting in June 2021.

Stage 2: During off-peak lane closure operations, variable depth asphalt buildup will be constructed within the limits of the Stage 1B widening and the portion of existing pavement that will accommodate Stage 3A travel lanes. This includes the upper lifts of asphalt paving on the Stage 1B widened pavement concurrent with asphalt buildup on the existing lanes. Upon completion of each off-peak overlay

operation, lanes will be shifted from the Stage 1B configuration into the Stage 3A configuration.

The anticipated duration of Stage 2 is 3 months starting in April 2022.

Stage 3A: Shift Route 28 traffic onto permanent widening constructed in Stage 1B during Stage 2 overlay operations. Northbound traffic is to be shifted to the east from Compton Road to Old Mill Road/Green Trails Boulevard along with barrier being installed on the westbound side. From Old Mill Road/Green Trails Boulevard to Upperridge Drive/Old Centreville Road, northbound Route 28 traffic is to be shifted to the west to construct the permanent roadway widening. Southbound Route 28 traffic will be shifted towards the median. The permanent buildup behind the barrier is to be constructed during Stage 3A.

Connections to Compton Road West, Old Mill Road, New Braddock Road, Machen Road, and the eastern part of Ordway Road are to be completed. The southern side of Upperridge Drive/Old Centreville Road will also be completed.

The shared use path along NB Route 28 is to be constructed from Old Mill Road/Green Trails Boulevard to Upperridge Road/Old Centreville Road, while maintaining the existing trail.

The duration of Stage 3A is 9 months starting in June 2022.

Stage 3B: Route 28 southbound traffic is to remain in the same location as in the previous Stage 3A. Northbound Route 28 traffic is to remain in the same location as in Stage 3A from Compton Road to Old Mill Road/Green Trails Boulevard. Northbound Route 28 traffic is to be shifted to the east from New Braddock Road to Upperridge Drive/Old Centerville Road to construct the inside permanent roadway widening.

The western roadway of Ordway Road and New Braddock Road is to be constructed. The median along Upperridge Road/Old Centreville Road is to be constructed.

The duration of Stage 3B is 3 months starting in March 2023.

The temporary traffic control can be found in the following locations in the construction plan set:

Sheet 1K Series:	Stage 1A temporary traffic control plans
Sheet 1M Series:	Stage 1B temporary traffic control plans
Sheet 1N Series:	Stage 2 temporary traffic control plans
Sheet 1P Series :	Stage 3A temporary traffic control plans
Sheet 1R Series:	Stage 3B temporary traffic control plans
Sheet 1S Series:	Temporary traffic control typical sections

Traveler Access Considerations:

Maintaining traveler access is one of the major goals of this project. Therefore, Route 28 and all signalized intersecting streets will remain open during this stage.

Driveway access to all properties to be retained upon the completion of construction will be maintained continuously throughout construction. Driveway tie-in construction will be completed during least disruptive hours, such as weekday non-peak hours for residences.

Intersecting streets and turn lanes will be available for use in case of vehicle breakdown. Where possible, shoulders wide enough to accommodate stalled vehicles will be provided.

Pedestrian and Transit Considerations:

Pedestrian and transit access and safety during construction have been carefully considered. Safe pedestrian access will be maintained throughout this project for the existing pedestrian movements. Pedestrian facilities are located in most areas of the project, including sidewalks and shared use paths. There are pedestrian crossings at most signalized intersections.

Temporary pedestrian facilities will include use of existing sidewalks, and trails, existing asphalt pavement, and temporary pavement. Existing pedestrian signalization will also be maintained throughout construction. Pedestrian signing, pavement markings, and signals can be found in the temporary traffic control plans and will be designed in conformance with the Virginia Work Area Protection Manual.

Construction Access Considerations:

Construction access points are shown graphically in the temporary traffic control plans and construction entrances are shown in the erosion and sediment control plans. Construction access openings will be installed in accordance with Appendix A of the Virginia Work Area Protection Manual, and "Construction Entrance" warning signs will be utilized.

Daily Lane and Shoulder Closures:

The temporary traffic control shown in the plans includes long-term stages of construction. Daily short-term lane and shoulder closures per hours outlined in the Transportation Operations Plan section of this TMP are to be implemented using Typical Traffic Control figures (TTC) in the Virginia Work Area Protection Manual. The contractor should refer to the following TTC figures which are anticipated to be commonly implemented during construction:

- Work Beyond the Shoulder (TTC-1.1)
- Stationary Operation on Shoulder (TTC-4.2)
- Moving / Mobile Operations on Multi-Lane Roadway (TTC-13.2)
- Outside Lane Closure Operation on a Four-Lane Roadway (TTC-16.2)

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TRANSPORTATION MANAGEMENT PLAN

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COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

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- Inside Lane Closure Operation on a Four-Lane Roadway (TTC-17.2)
- Lane Closure Operation – Near Side of Intersection (TTC-26.2)
- Lane Closure Operation – Far Side of Intersection (TTC-27.2)
- Lane Closure Operation in an Intersection (TTC-28.2)
- Turn Lane Closure Operation (TTC-29.2)
- Flagging Operation at a Signalized Intersection (TTC-30.2)
- End of Day Signing for Partial Paving Operations on a Multi-Lane Roadway (TTC-57.2)
- End of Day Signing for Paving Operations on a Multi-Lane Roadway (TTC-58.1)
- Slow Roll Operation on a Multi-Lane Roadway (TTC-66.1)

Equipment and Material Storage:

All equipment and material shall be stored outside of the clear zone or be protected by temporary concrete barrier. Equipment and materials will also be stored along Route 28 where protected by temporary barrier but shall not be stored within the 2' deflection zone behind temporary concrete barrier or within 200' downstream of a barrier opening.

Impact Management Strategies:

In addition to the minimum temporary traffic control measures required by the Virginia Work Area Protection Manual, the following strategies will be utilized in an effort to increase mobility and safety for all parties through the heavily travelled work area:

- Maintaining at least 2 thru lanes in each direction during peak periods throughout construction in order to maximize capacity during hours of greatest demand.
- Reduced channelizing device spacing for non-typical shaped work areas or along roadways with tight curvature, which enhances safety by reducing the likelihood of an errant vehicle entering the work space.
- Use of portable changeable message signs (PCMS) throughout construction to warn travelers of upcoming traffic switches or disruptions.
- Use of temporary plastic pavement markers on Route 28 to increase driver alertness of temporary lane configurations.
- Wider than required markings for extra visibility for lane shifts on Route 28.

- Maintenance of paved shoulder along Route 28 when possible.
- Use of lane shift tapers exceeding full posted speed limit on Route 28.

Typical Sections:

Detailed typical sections are included in the temporary traffic control plans (Sheet 1S Series). Typical sections have been developed for each significant stage of construction. The typical sections show lane configurations, lane widths, shoulder widths, temporary barrier, work area locations, and other pertinent features.

Crash Data Investigation:

The four year crash history (2016 through 2020) has been investigated for Route 28 between Compton Road and Upperridge Road/Old Centreville Road. Crash data was obtained from VDOT's online database for this 2.3 mile section of roadway that includes 5 existing traffic signals. In the four year period, there were a total of 415 crashes, of which 1 was a fatality crash, and 183 resulted in personal injury.

Of the 415 crashes, 298 were rear-end, 65 were angled, 22 were fixed object-off road, 14 were sideswipe, 4 were "other", 4 were head-on, 2 were non-collision, 2 were deer, 2 were pedestrian, 1 was backed into, and 1 was fixed object in road. Of the 415 crashes, 3 occurred in a work zone. The vast majority of crashes were either rear-end or angled likely associated with congestion and / or distracted driving.

III.

PUBLIC COMMUNICATIONS PLAN

N.T.S.	PROJECT 0028-029-269	SHEET NO. IU(5)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TRANSPORTATION MANAGEMENT PLAN

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COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
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Public Communications Plan

A proactive communications and outreach plan is imperative to keep all stakeholders aware of changing roadway conditions and roadway disruptions (such as lane closures or temporary stoppages). In order to attain this awareness, notification processes need to be implemented between all parties. These stakeholders include the Design-Build Team, the contractor's Work Zone Traffic Control Coordinator, FCDOT, VDOT Traffic Operations, VDOT Public Affairs, Local government, County Police, State Police, Fire and Rescue, Schools, Transit agencies, Local businesses, local residents, and local and long-distance travelers.

Contractor's Notification Process:

1. The contractor shall be responsible for maintaining project lane closure information on LCAMS and VaTraffic throughout the duration of the project in accordance with IIM-OD-16-03, dated December 16, 2016. All lane and/or shoulder closures shall be entered into LCAMS at least ten (10) days in advance of the proposed lane and/or shoulder closure and no later than close of business Wednesday the week prior (Sunday through Saturday) to the closure stating the location, purpose, date, time and duration of closure. Any conflicts generated from LCAMS shall be resolved no later than close of business Thursday the week prior to the closure. Allowable lane closure hours are found in Table 1 on page 16 of this TMP.

2. After entering lane closure requests into LCAMS, the contractor shall send the LCR information to Shirley's Public Relations Manager in one of two possible formats:
   a. A screenshot of the LCMS entry
   a. A list of lane closures that contains the following information:
      i. LCAMS # (LCAMS ID number)
      ii. Route Name (the road name and/or route number)
      iii. Direction (northbound, southbound, eastbound, westbound)
      iv. Type of Closure (which lane(s) or shoulder(s) will be closed and any other anticipated traffic impacts)
      v. Date(s) (dates that the lane closure may be implemented)
      vi. Start time and stop time (From Time and To Time in LCAMS)
      vii. From and To (the starting point and stopping point of the lane closure using cross-streets or other landmarks as references)
      viii. Activity Type (the type of work requiring the lane closure)

3. If police presence is requested, the request must be submitted to Shirley's Public Relations Manager along with the LCR by 5:00 PM each Wednesday for the following week (Sunday through Saturday).

4. Shirley's Public Relations Manager will assemble the approved LCRs for the upcoming week and email the Weekly Lane Closure Report to FCDOT, VDOT NOVA Communications, the VDOT Project Manager (or their designee), Shirley Team's Design-Build Project Manager, and Shirley Team's Construction Manager by 9:00 AM on Thursday. Requests for police presence that have been approved by the Shirley Team's Design-Build Project Manager will be conveyed to the VDOT Project

Construction Manager at that time. Approved LCRs are also to be submitted into VA Traffic (with copy to VDOT Project Manager) in accordance with IIM-OD-16-03, dated December 16, 2016.

5. The Contractor shall confirm at least 24 hours before any scheduled LCR's with the VDOT NOVA Traffic Operations Center and shall provide an email to the VDOT Construction Manager verifying proposed tasks and a listing of materials, labor, and equipment to be utilized.

6. The Contractor shall be responsible for contacting the VDOT NOVA Traffic Operations Center 15 to 45 minutes prior to executing lane and/or shoulder closures and contact the Traffic Operations Center once the lane and/or shoulder closures have been removed, so that closures are reflected on VDOT's 511 system.

7. FCDOT and VDOT have the right to direct the Contractor to modify, adjust, or remove lane closures based on traffic or weather conditions.

8. The Contractor shall continually monitor all lane and/or shoulder closures and detour routes throughout the duration of the project and make spot adjustments as needed / available to ease undue backups, delays, or queuing. Lane and/or shoulder closures should not begin if heavy traffic or significant queuing and backups are already present. Lane and/or shoulder closure hours of operation may be adjusted by VDOT during the contract at any time, as necessary, if significant queueing or backups routinely develops as a result of the project.

9. The Contractor shall notify and/or coordinate with the various local area schools, depending on time of year, of all closures, times and any detour routes for situational awareness.

VDOT's Agency Notification Process:

1. Once a lane or shoulder closure is approved, VDOT will use LCAMS to convey approved closures to the VDOT NRO Traffic Operations Center (TOC) for internal management and public affairs personnel.

Public Notification Process:

1. Provide to the FCDOT Project Manager information for Traffic Alerts whenever there are new impacts to motorists. All information for Traffic Alerts must be submitted at least one week in advance of the traffic impact. If the impact is major (changes or additional lane closures that are anticipated to cause traffic delays that exceed existing conditions), FCDOT must be notified one month in advance.

2. Provide to FCDOT's Project Manager an emergency contact list of Project personnel and response plan to respond to any onsite emergency, including any work zone incidents in accordance with IIM-241.

3. Maintain a log or database of questions, complaints, and/or comments received from stakeholders and the public either via public outreach efforts or direct contact, along with dates received, responses generated, and how the issues or concerns are addressed. If appropriate, this list of questions and responses will be posted on FCDOT's website.

4. Conduct "Pardon our Dust" meetings with businesses and communities, before construction begins and prior to major phases of construction, and in a format that includes opportunities for questions and answers.

5. Coordinate with FCDOT and VDOT to ensure compliance with applicable local ordinances and provide appropriate modifications to affected property owners.

Lane Closure Schedule:

Table 1 below is the schedule of allowable lane and shoulder closure hours to be used for this project. The source of the lane closures is the Request for Proposal, Technical Requirements, Part 5 section 108.02. FCDOT and VDOT reserve the right to monitor traffic conditions impacted by the work and to make additional restrictions as may be necessary (i.e., terminate a lane closure early).

Table 1: Allowable Lane Closure Hours*

Roadway	Single Lane Closures	Temporary 20 minute Complete Stoppages
Route 28 NB and SB	**Mon-Thurs** 9:30 AM – 3:00 PM 10:00 PM – 5:00 AM (next day) **Fri** 9:30 AM – 2:00 PM 10:00 PM – 9:00 AM (Sat) **Sat** 10:00 PM – 8:00 AM (Sun) **Sun** 10:00 PM – 5:00 AM (Mon)	**Mon-Sun** 12:00 AM – 4:00 AM**
Connecting Roadways	**Mon-Thurs** 9:00 AM – 3:30 PM 9:00 PM – 5:00 AM (next day) **Fri** 9:00 AM – 2:00 PM 10:00 PM – 9:00 AM (Sat) **Sat** 9:00 PM – 9:00 AM (Sun) **Sun** 10:00 PM – 5:00 AM (Mon)	**All other road's hours**

*Any request for deviation from the allowable lane closure hours shall be submitted to FCDOT and VDOT NRO for a review a minimum of fourteen (14) days in advance of work.

N.T.S.	PROJECT 0028-029-269	SHEET NO. IU(6)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TRANSPORTATION MANAGEMENT PLAN

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COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
-	VA.	28	0028-029-269 P101 R201 C501	IU(7)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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*FCDOT reserve the right to monitor traffic conditions impacted by the work and to make additional restrictions as may be necessary or as emergency situations dictate. Additional restrictions for other holidays or special local events may be necessary, and, in these situations, FCDOT will endeavor to inform the Design-Builder at the earliest and in no case less than forty-eight (48) hours prior to the event. Lane and/or shoulder closure hours of operation may also be adjusted by VDOT during the contract at any time, as necessary, if significant queuing or backups routinely develop as a result of the project.

**Daytime midday full closures (stoppages) may be necessary for limited activities that cannot be safely performed at night, such as blasting, and overhead utility work. Daytime stoppages shall be approved with FCDOT and VDOT prior to implementation.

Table 2 listed below is the holiday schedule to be used for this project. This is referenced from Part 5 section 108.02 of the contract. Lane closures will not be permitted between 12:00 noon on the Friday preceding and 12:00 noon Tuesday following Memorial Day and Labor Day; or any other state or federal holiday if these holidays occur on a Saturday, Sunday, or Monday. If any state or federal holiday falls on a weekday other than Monday, there shall be no temporary lane closures between 12:00 noon the day before and 12:00 noon the day after each of these holidays. No lane closures shall take place between 12:00 noon the Wednesday preceding and 12:00 noon the Monday following Thanksgiving.

Table 2: Holiday Schedule

Holiday	Date or Day
New Year's Day	January 1
Martin Luther King Jr. Day	3rd Monday in January
President's Day	3rd Monday in February
Easter Sunday Weekend (Fri-Sun)	March or April (Varies)
Memorial Day	Last Monday in May
Independence Day	July 4
Labor Day	1st Monday of September
Columbus Day	2nd Monday in October
Election Day	1st Tuesday after Nov. 1st
Veteran's Day	November 11
Thanksgiving Day	4th Thursday in November (noon on the Wednesday preceding Thanksgiving Day)
Day after Thanksgiving	Friday After Thanksgiving to Noon on the Monday following Thanksgiving Day
Christmas Day	December 25

IV.

TRANSPORTATION OPERATIONS PLAN

Transportation Operations Plan

This Transportation Operations Plan contains procedures and processes to respond to incidents in the work zone, and to modify temporary traffic control plans to improve operations if necessary. It also contains the work zone traffic analyses for long-term temporary lane configurations, short-term detours, and temporary traffic signals. Processes for public outreach, including coordination with FCDOT and the NRO TOC are found in the "Public Communications Plan" section.

Incident Management:

Timely response to an incident is extremely important to achieve swift fire and rescue response, and to restore traffic operations. In the event of a traffic crash or other emergency situation in the work zone, the Contractor should immediately notify the appropriate emergency response agencies (911) and FCDOT. In the event that the Contractor's equipment, material, or personnel is involved in the incident, or if the incident is within the limits of a temporary lane closure, the Contractor should make incident area accessible to emergency vehicles when feasible, and shall be ready to follow the direction of the Police and FCDOT in order to restore normal operations.

Wrecker service will be provided to remove disabled vehicles within the project limits and will remain on site whenever long-term station work zone is in place. Disabled vehicles will be placed at the park and ride lot in the southwest corner of the New Braddock Road and Route 28 intersection. The wrecker shall be equipped with overhead emergency lights, rear flood lights, wheel lift and all other standard safety items. Vehicles in a crash will not be removed or disturbed until approval is given from Fairfax County Police, Virginia State Police, and other law enforcement agency.

Coordination will be provided with TOC when an incident requires a detour and will be established with one (1) hour from 5AM -9PM daily and two (2) hours during all other times not referenced.

FCDOT and VDOT should notify additional VDOT personnel and agencies of the incident and the resulting traffic delays as appropriate. These may include VDOT NRO TOC, VDOT Public Affairs, Transit Agencies, and Schools for example. The contact list for local emergency response agencies is as follows:

- Virginia State Police – Division 7 Headquarters
  Phone: 911 or (703)803-2660 or (703)803-0026 (After hours)
- Fairfax County Police – Sully District
  Phone: 911 or (703)814-7000
- City of Manassas Police
  Phone: 911 or (703)257-8000
- Prince William County Police
  Phone: 911 or (703)792-6500
- Fairfax County Fire Station – Centreville, Station 17
  Phone: 911 or (703)830-1901
- Fairfax County Fire Station – West Centreville, Station 38
  Phone: 911 or (703)802-2806
- Yorkshire Volunteer Fire and Rescue
  Phone: 911 or (703)368-4433

N.T.S.	PROJECT 0028-029-269	SHEET NO. IU(7)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TRANSPORTATION MANAGEMENT PLAN

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COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IU(8)

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Incident Review and Traffic Control Plan Modification:

For notable incidents, it is recommended that an accident report is developed by the VDOT inspectors and forwarded to VDOT and FCDOT for review and approval. The accident report should be thoroughly reviewed by stakeholders for the purpose of modifying the temporary traffic control plans to reduce the frequency and severity of future incidents. Recommendations made should be implemented by the Contractor.

Traffic and Travel Characteristics at the Project Location:

Route 28 (Centreville Road) in the project limits primarily functions as a significant commuter route between Prince William and Fairfax Counties. It experiences high traffic volumes during the morning and evening peak hours. The morning peak direction of travel is northbound, and the evening peak direction of travel is southbound. Traffic volumes are predominately commuters and local traffic, with a mix of commercial and light industrial. Northbound commuters and commercial traffic either continue north on Route 28 or use I-66 and Route 29 (Lee Highway) toward Washington D.C., Arlington County, and eastern Fairfax County. The traffic patterns are opposite in the afternoon, as southbound traffic on Route 28 combines with significant volume exiting I-66, and Route 29 (Lee Highway) heading south towards Manassas. Route 28 is a divided two-lane roadway with two 11'-12' thru lanes in each direction. Shoulders vary from no shoulder (some sections curb & gutter) to a 4'-8' right paved shoulder. The existing speed limit on Route 28 within the project limits is 45 mph.

Please see Introduction section of this Transportation Management Plan for traffic and travel characteristics for streets intersecting Route 28 in this project.

Existing Traffic Data:

As part of the scope of this project, the design-build team utilized turning movement counts within the project limits from May 2016 at all signalized intersections between Compton Road to Upperridge Drive/Old Centerville Road. This collected data accurately reflects 2016 traffic conditions, and therefore is used as the existing data for this TMP.

The existing ADT for Route 28 is based on tube counts collected in September 2016.The existing traffic data described above is shown in Table 3, Table 4, Table 5 and on Sheet 1U(8).

Table 3: Existing ADT's

Roadway	Year	ADT (vehicles/day)
Route 28 (south of Green Trails Boulevard)	2016	47,849
Route 28 (north of Green Trails Boulevard)	2016	59,685

Table 4: Existing 2016 Route 28 Hourly Volumes South of Green Trails Boulevard

Hour	NB Hourly % of Daily Traffic	NB Volume (vehicles/hour)	SB Hourly % of Daily Traffic	SB Volume (vehicles/hour)	NB & SB Hourly % of Daily Traffic	NB & SB Volume (vehicles/hour)
0:00	0.5%	118	1.3%	323	0.9%	441
1:00	0.3%	79	0.7%	164	0.5%	243
2:00	0.5%	118	0.5%	117	0.5%	235
3:00	1.1%	257	0.3%	75	0.7%	332
4:00	3.3%	791	0.6%	138	1.9%	929
5:00	7.8%	1838	1.5%	355	4.6%	2193
6:00	7.0%	1648	3.4%	815	5.1%	2463
7:00	6.3%	1494	4.5%	1093	5.4%	2587
8:00	6.4%	1514	4.2%	1005	5.3%	2519
9:00	6.3%	1484	3.9%	937	5.1%	2421
10:00	5.5%	1308	4.3%	1028	4.9%	2336
11:00	5.1%	1197	4.6%	1104	4.8%	2301
12:00	5.1%	1206	5.1%	1227	5.1%	2433
13:00	5.3%	1263	5.6%	1362	5.5%	2625
14:00	5.3%	1265	6.7%	1623	6.0%	2888
15:00	5.2%	1239	7.5%	1810	6.4%	3049
16:00	5.3%	1265	7.8%	1882	6.6%	3147
17:00	5.3%	1250	8.0%	1943	6.7%	3193
18:00	5.0%	1181	8.0%	1939	6.5%	3120
19:00	4.2%	987	6.6%	1600	5.4%	2587
20:00	3.3%	774	5.0%	1210	4.1%	1984
21:00	3.0%	706	4.4%	1073	3.7%	1779
22:00	1.9%	439	3.4%	822	2.6%	1261
23:00	1.0%	240	2.2%	543	1.6%	783
Total	100.0%	23,661	100.0%	24,188	100.0%	47,849

Table 5: Existing 2016 Route 28 Hourly Volumes North of Green Trails Boulevard

Hour	NB Hourly % of Daily Traffic	NB Volume (vehicles/hour)	SB Hourly % of Daily Traffic	SB Volume (vehicles/hour)	NB & SB Hourly % of Daily Traffic	NB & SB Volume (vehicles/hour)
0:00	0.6%	173	1.5%	402	1.0%	575
1:00	0.4%	112	0.8%	220	0.6%	332
2:00	0.5%	167	0.5%	143	0.5%	310
3:00	1.0%	306	0.4%	107	0.7%	413
4:00	3.1%	958	0.6%	169	2.0%	1127
5:00	7.5%	2307	1.5%	416	4.7%	2723
6:00	7.3%	2239	3.1%	846	5.3%	3085
7:00	7.0%	2131	4.5%	1213	5.8%	3344
8:00	7.0%	2127	4.3%	1171	5.7%	3298
9:00	6.8%	2089	4.2%	1148	5.6%	3237
10:00	5.4%	1652	4.2%	1148	4.9%	2800
11:00	5.0%	1529	4.4%	1202	4.7%	2731
12:00	4.8%	1480	5.4%	1454	5.1%	2934
13:00	4.9%	1487	6.2%	1674	5.5%	3161
14:00	4.8%	1454	7.5%	2033	6.0%	3487
15:00	4.8%	1468	0.8%	2226	6.2%	3694
16:00	5.3%	1633	7.6%	2057	6.4%	3690
17:00	5.4%	1659	7.6%	2054	6.4%	3713
18:00	4.8%	1481	7.7%	2088	6.2%	3569
19:00	4.2%	1276	7.9%	2139	5.9%	3415
20:00	3.5%	1061	6.8%	1830	5.0%	2891
21:00	2.9%	877	5.4%	1454	4.0%	2331
22:00	1.9%	581	4.2%	1134	3.0%	1715
23:00	1.1%	333	2.9%	777	1.9%	1110
Total	100.0%	30,580	100.0%	27,101	100.0%	59,685

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SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TRANSPORTATION MANAGEMENT PLAN

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COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IU(9)

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TMP Traffic Data:

The next step was to re-distribute the existing volumes based on the roadway network to be in place during each stage of construction. During Stage 1A, the existing roadway network will remain in place, so no re-distribution is necessary.

Existing traffic volumes were grown from their existing numbers by 1.0% per year to future volumes in 2023. The 1.0% growth rate is the consistent with what the RFP used to estimate future volumes. These volumes shown in Table 6, Table 7, Table 8, and Sheet 1U(9) are used for stage 1B operational analysis.

Table 6: 2023 ADT's

Roadway	Year	ADT (vehicles/day)
Route 28 (south of Green Trails Boulevard)	2023	51,301
Route 28 (north of Green Trails Boulevard)	2023	63,990

Table 7: 2023 Route 28 Hourly Volumes South of Green Trails Boulevard

Hour	NB Hourly % of Daily Traffic	NB Volume (vehicles/hour)	SB Hourly % of Daily Traffic	SB Volume (vehicles/hour)	NB & SB Hourly % of Daily Traffic	NB & SB Volume (vehicles/hour)
0:00	0.5%	127	1.3%	346	0.9%	473
1:00	0.3%	85	0.7%	176	0.5%	261
2:00	0.5%	127	0.5%	125	0.5%	252
3:00	1.1%	276	0.3%	80	0.7%	356
4:00	3.3%	848	0.6%	148	1.9%	996
5:00	7.8%	1971	1.5%	381	4.6%	2351
6:00	7.0%	1767	3.4%	874	5.1%	2641
7:00	6.3%	1602	4.5%	1172	5.4%	2774
8:00	6.4%	1623	4.2%	1077	5.3%	2701
9:00	6.3%	1591	3.9%	1005	5.1%	2596
10:00	5.5%	1402	4.3%	1102	4.9%	2505
11:00	5.1%	1283	4.6%	1184	4.8%	2467
12:00	5.1%	1293	5.1%	1316	5.1%	2609
13:00	5.3%	1354	5.6%	1460	5.5%	2814
14:00	5.3%	1356	6.7%	1740	6.0%	3096
15:00	5.2%	1328	7.5%	1941	6.4%	3269
16:00	5.3%	1356	7.8%	2018	6.6%	3374
17:00	5.3%	1340	8.0%	2083	6.7%	3423
18:00	5.0%	1266	8.0%	2079	6.5%	3345
19:00	4.2%	1058	6.6%	1715	5.4%	2774
20:00	3.3%	830	5.0%	1297	4.1%	2127
21:00	3.0%	757	4.4%	1150	3.7%	1907
22:00	1.9%	471	3.4%	881	2.6%	1352
23:00	1.0%	257	2.2%	582	1.6%	839
Total	100.0%	25,368	100.0%	25,933	100.0%	51,301

Table 8: 2023 Route 28 Hourly Volumes North of Green Trails Boulevard

Hour	NB Hourly % of Daily Traffic	NB Volume (vehicles/hour)	SB Hourly % of Daily Traffic	SB Volume (vehicles/hour)	NB & SB Hourly % of Daily Traffic	NB & SB Volume (vehicles/hour)
0:00	0.6%	185	1.4%	431	1.0%	616
1:00	0.4%	120	0.8%	236	0.6%	356
2:00	0.5%	179	0.5%	153	0.5%	332
3:00	1.0%	328	0.4%	115	0.7%	443
4:00	3.1%	1027	0.6%	181	1.9%	1208
5:00	7.5%	2473	1.4%	446	4.6%	2919
6:00	7.3%	2401	2.9%	907	5.2%	3308
7:00	7.0%	2285	4.2%	1301	5.6%	3585
8:00	7.0%	2280	4.0%	1255	5.5%	3536
9:00	6.8%	2240	3.9%	1231	5.4%	3471
10:00	5.4%	1771	3.9%	1231	4.7%	3002
11:00	5.0%	1639	4.1%	1289	4.6%	2928
12:00	4.8%	1587	5.0%	1559	4.9%	3146
13:00	4.9%	1594	5.8%	1795	5.3%	3389
14:00	4.8%	1559	7.0%	2180	5.8%	3739
15:00	4.8%	1574	7.6%	2387	6.2%	3960
16:00	5.3%	1751	7.1%	2205	6.2%	3956
17:00	5.4%	1779	7.1%	2202	6.2%	3981
18:00	4.8%	1588	7.2%	2239	6.0%	3826
19:00	4.2%	1368	7.3%	2293	5.7%	3661
20:00	3.5%	1138	6.3%	1962	4.8%	3100
21:00	2.9%	940	5.0%	1559	3.9%	2499
22:00	1.9%	623	3.9%	1216	2.9%	1839
23:00	1.1%	357	2.7%	833	1.9%	1190
Total	100.0%	32,786	100.0%	31,204	100.0%	63,990

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SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

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COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

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-	VA.	28	0028-029-269 P101 R201 C501	IU(10)

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Measures of Effectiveness Goals:

Measures of effectiveness goals are necessary to evaluate the acceptability of long-term temporary lane configurations and temporary traffic signals. The measures of effectiveness goals used for the analyses are listed below. In general, only minor impacts are desired during peak hours in order to maximize mobility and safety, while activities with more significant impacts should be performed during off peak hours. These measures of effectiveness goals are generally consistent with those for VDOT's "Virginia MegaProjects Program".

Temporary Lane Configurations (such as long-term lane closures, shoulder closures, etc.)

It is desirable to limit construction caused delays to public traffic to a maximum of 5 minutes per passage through the project.

Short-Term Detour Routes

Detours which cause peak hour delay of less than 10 minutes per vehicle are desirable. Detours are only planned for construction activities that do not have a feasible alternative based on safety or constructability.

Signalized Intersections

It is desirable to limit intersection control delay increases during MOT operations to not more than a 50% increase.

Temporary Stoppages

Off-Peak queues of up to 1/2 mile and delay of up to 20 minutes per vehicle are desirable for activities such as traffic signal installation and removal.

Analysis Tool Selection Methodology and Justification:

The software packages listed below were used to analyze the temporary traffic control plans. The specific analysis tool selected – as necessary – for each phase of construction for each roadway varied based on the roadway type, location of the work zone on the roadway, and complexity of the temporary traffic control (i.e. lane closure, temporary stoppages, etc.).

- Highway Capacity Manual and Software (HCS+)
  Used to analyze the impacts of temporary lane configurations

Traffic Analysis for Long-Term Conditions:

The following analyses are for temporary lane configurations on Route 28 (long-term work zone conditions as defined by the Virginia WAPM), such as long-term lane closures and shoulder closures with temporary barrier or channelizing devices. The stage with the most disruptive impacts to traffic was analyzed (all other stages will have equal or lesser impacts).

Stage 1B Analysis

During Stage 1B of construction, minimal long-term impacts to existing traffic are expected. Both existing thru lanes will be maintained in each direction, with existing lane widths maintained and shoulder widths at 1' minimum. These reductions in shoulder width are necessary to allow for construction. The length of shoulder closures is about 12,150 ft. Stage 1B is estimated to reduce the free-flow speed on Route 28 by 2.3 mph based on Chapter 21 of the *Highway Capacity Manual*. The calculations for these results are as follows:

The work zone free flow speed was calculated as 48.96 mph using Formula 21-1 of the *Highway Capacity Manual* (Free Flow Speed) where:

Work Zone Conditions

Work Zone FFS = BFFS - f_{LW} - f_{LC} - f_M - f_A
Work Zone FFS = 55 – 1.9 – 3.6 –0 – 0.54
Work Zone FFS = 48.96 mph

Assumptions:
BFFS (Base Free Flow Speed) = 55 mph
f_{LW} (Adjustment for 11' lane width) = 1.9
f_{LC} (Adjustment for 2' total shoulder lateral clearance) = 3.6
f_M (Adjustment for a divided highway) = 0
f_A (Adjustment for an average of 2 access points per mile) = 0.54

Normal Conditions

To determine the delay caused by the work zone, the normal (non work zone) free flow speed was calculated as a baseline to compare to the work zone free flow speed. The normal free flow speed was calculated as 51.26 mph using Formula 23-1 of the *Highway Capacity Manual* (Free Flow Speed) where:

Normal FFS = BFFS - f_{LW} - f_{LC} - f_M - f_A
Normal FFS = 55 – 1.9 – 1.3 – 0 – 0.54
Normal FFS = 51.26 mph

Assumptions:
BFFS (Base Free Flow Speed) = 55 mph
f_{LW} (Adjustment for 11' lane width) = 1.9
f_{LC} (Adjustment for 6' total shoulder lateral clearance) = 1.3

f_M (Adjustment for a divided highway) = 0
f_A (Adjustment for an average of 2 access points per mile) = 0.54

The Route 28 work zone capacity is estimated at 1,979 pc/h/ln (total capacity of 3,958) pch/hr) based on Exhibit 21-2 of the Highway Capacity Manual (LOS Criteria for Multilane Highways). Since the peak hour volume is 2,401 below the capacity, the work zone is not anticipated to cause queues on Route 28.

N.T.S.	PROJECT 0028-029-269	SHEET NO. IU(10)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TRANSPORTATION MANAGEMENT PLAN

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

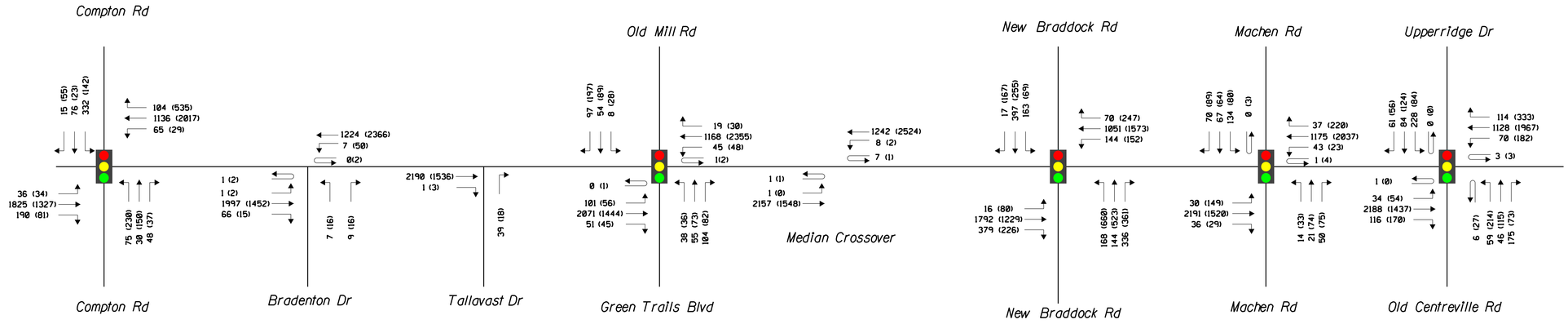
Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IU(11)

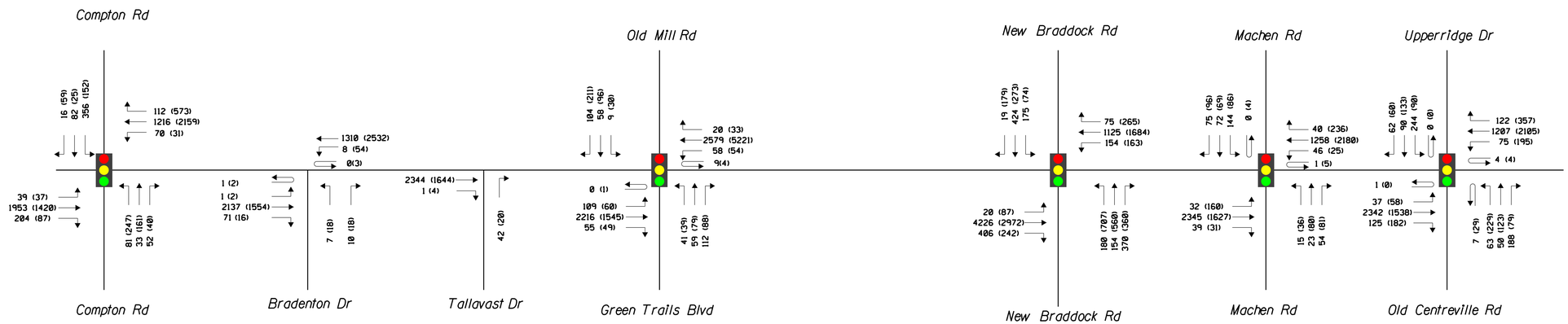
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

2016 Existing Volumes
AM (PM) Peak Hour Volumes



2023 Volumes



N.T.S.	PROJECT 0028-029-269	SHEET NO. IU(11)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

GENERAL NOTES

GRADING

G-1 The grade line denotes top of finished pavement unless shown otherwise on typical sections or plans.

G-3 Earthwork quantities on this project are based on anticipated settlement and may require adjusting during construction.

G-5 The excavation of unsuitable material as specified on these plans is based on previously conducted subsurface soil investigation. If, during construction, it is deemed necessary to change the depth more than 1 foot (0.3 m) or the limits of such excavation, such change shall be made at the direction of the Engineer.

G-6 The borrow material for this project shall be a minimum CBR 5.0 or as approved by the VDOT Materials Engineer.

G-7 Material from regular excavation which is suitable for stabilization with hydraulic cement (lime) shall be placed in the top portion of the subgrade.

DRAINAGE

D-1 The horizontal location of all drainage structures shown on these plans is approximate only, with the exception of structures showing specific stations, special design bridges and storm sewer systems.

D-2 The horizontal location and invert elevations shown for proposed culverts and storm sewer outfall pipes are based on existing survey data and required design criteria. If during construction, it is found that the horizontal location or invert elevations shown on the plans differ significantly from the horizontal location or elevations of the stream or swale in which the culvert or storm sewer outfall pipe is to be placed, the Engineer shall confer with, and get approval from, the applicable FCDOT representative before installing the culvert or storm sewer outfall pipe.

D-3 The "H" dimension shown on plans for drop inlets and junction boxes measures from the proposed invert elevations to the anticipated top (rim) elevations based on proposed finished grade. The "H" dimension for manholes measures from the proposed invert elevations to the top of the masonry structure (not including required 8" frame and cover). Plan "H" dimensions are approximate only and the actual dimensions shall be determined by the contractor from field conditions.

D-6 Pipes shall conform to any of the allowable types shown on sheet number 32(7), within the applicable height of cover limitations. For strength, sheet thickness, or class designation; available sizes; height of cover limitations, and other restrictions for a particular pipe type or height of cover, see the VDOT Road and Bridge Standard PC-1. Structural plate pipe may be substituted for corrugated pipe of the same size, provided the substitution complies with the applicable sections of the VDOT Road and Bridge Standard PC-1.

D-8 Where open joint pipe is to be used, no joint shall be opened a distance exceeding 25% of the spigot length. Sealing of the pipe joint shall be in accordance with Section 302 of the applicable VDOT Road and Bridge Specifications.

D-9 A pipe joint length different from that stated on the plans may be used. An adjustment in the percentage of open joint (not to exceed 25% of the spigot length) or amount of bevel shall be made that will obtain the radius stated on the plans. The proposed adjustment shall be approved by the Engineer prior to installation of the pipe line.

D-10 The proposed riprap may be omitted by the Engineer if the slope designated for placement of riprap is found to be comprised of solid rock or closely consolidated boulders with soundness, size and weight equal to, or exceeding, the specifications for the proposed riprap.

D-12 All existing drainage facilities labeled "To Be Abandoned" or "To Be Removed" shall either be left in place, backfilled and plugged or removed (at the discretion of the Contractor) in accordance with the VDOT Road and Bridge Standard PP-1.

D-13 Existing drainage facilities being utilized as a part of the drainage system, and designated on the plans "To Be Cleaned Out", shall be cleaned as directed by the Engineer.

D-14 Proposed drop inlets with a height (H) less than the standard minimum shown in the VDOT Road and Bridge Standards shall be considered and paid for as Standard Drop Inlets for the type specified. Pipes with less than standard minimum finished height of cover shall be noted as such in the drainage description for the pipe. Specific pipe bedding and cover requirements are provided in the applicable PB-1 and PC-1 standard drawings of the VDOT Road and Bridge Standards.

D-16 When CG-6 or CG-7 is specified on a radius (such as at a street intersection), the Engineer may approve a decrease in the cross slope of the gutter to facilitate proper drainage.

D-17 St'd. SL-1 Safety slab locations are based on the assumed use of precast structures. If cast-in-place structures are utilized, and the interior chamber dimensions (length and width, or diameter) are less than 4 feet, the safety slabs shall not be installed.

PAVEMENT

P-2 The pavement materials on this project will be paid for on a tonnage basis. The weight will vary in accordance with the specific gravity of the aggregates and the asphaltic content of the mix actually used to secure the design depth. The weight of the asphalt concrete is based on 95% of theoretical maximum density.

INCIDENTALS

I-5 That portion of the right of way lying within the Clear Zone or within a minimum of 30 feet from the edge of pavement or surfacing or within the limits of the construction slopes beyond 10 feet, shall be cleared and grubbed in accordance with the applicable VDOT Road and Bridge Specifications, Section 301, where sufficient right of way or construction easement is provided.

I-7 Where Standard slope roundoffs would damage trees, bushes or other desirable vegetation, they shall be omitted when so ordered by the Engineer.

I-9 When no centerline alignment is shown for a proposed entrance, the entrance shall be constructed in the same location as the existing entrance.

I-12 St'd. RM-2 right of way monuments shall be set by the Contractor.

I-16 The "Underground Utilities" survey data on this project has been provided by consultant and copies are available from FCDOT.

I-18 All pavement markings and traffic flow arrows shown on the roadway construction plans are schematic only. The actual location and application of pavement markings shall be in accordance with Section 704 of the applicable VDOT Road and Bridge Specifications, MUTCD, sequence of construction/traffic control plans, pavement marking plan sheets, and as directed by the Engineer.

I-19 The following sources, under contract with VDOT, have provided information on this project:

Hydraulic Design - Dewberry Engineers Inc.
Roadway Design - Dewberry Engineers Inc.
Utility Design -Dewberry Engineers Inc.
Utility Designation - SAM
Utility Location - SAM
Survey - Dewberry Engineers Inc. / Quantum Spatial
Bridge Design - Dewberry Engineers Inc.
Traffic Design - Dewberry Engineers Inc.
Landscape Design - Dewberry Engineers Inc.

If questions or problems arise during construction, please contact the Project Designer. DO NOT CONTACT THE OUTSIDE SOURCES.

I-20 The Official Electronic PDF Version of the plans will override the paper copies or prints of specific layers. Portions of this plan assembly have been CADD generated.

I-21 All electronic plan assemblies will include the construction plans in two formats: PDF files and Microstation format (.dgn) files. Only the PDF files will be considered as part of the official plan assembly.

The MicroStation format (.dgn) files are furnished only as information for the contractor. These plans are developed in layers (levels) to aid in readability. However, the construction items may or may not be in the proper layering scheme as described in the VDOT CADD Manual. The MicroStation files will only match the scanned files if all levels are turned on. A MicroStation Software license is required to be able to read these files.

STORMWATER MANAGEMENT

S-1 CLEARING AND GRUBBING OF SWM BASIN SITE - The area where the dam is to be constructed and the area upstream of the dam, to an elevation equal to the crest of the dam (maximum ponded water elevation), shall be cleared and grubbed in accordance with Section 301 of the applicable VDOT Road and Bridge Specifications.

S-2 SWM BASIN DAM CONSTRUCTION - The dam for detention basins (no permanent pool) shall conform to the details contained in the plans and shall be constructed in accordance with Section 303 of the applicable VDOT Road and Bridge Specifications. The native material on which the dam will set shall meet the specifications for AASHTO Type A-4 or finer material. Where the native material does not meet this requirement, the area beneath the dam is to be excavated to a minimum of 4' and backfilled with a material meeting the AASHTO Type A-4 or finer classification, unless otherwise specified in the plans. The material used for the embankment of the dam shall be AASHTO Type A-4 or finer or as otherwise specified in the plans. Dams with foundation and embankment material not meeting the above requirements, dams greater than 15' in height, or dams for retention basins (permanent pool) shall incorporate a membrane-lined trench, a homogenous embankment with seepage controls, a zoned embankment or other such approved designs as specified in the plans.

S-3 SWM BASIN OUTLET PIPE - The pipe culvert under or through the dam for detention basins (no permanent pool) shall be reinforced concrete pipe with rubber gaskets in accordance with Section 232 and 212 of the applicable VDOT Road and Bridge Specifications. A concrete cradle shall extend the full length of the pipe culvert in accordance with the Standard Drawings. The connection between the pipe culvert and the SWM-1 Drainage Structure (or other control structure) shall be made watertight as approved by the Engineer and the cost shall be included in the price bid for the pipe.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	2

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER

S-4 The SWM-1 Drainage Structure (or other control structure) shall have 4" high numbers and 1" wide stripes painted at 1' intervals as shown on the Standard Drawings or detail sheets. The numbers and stripes are to be installed at the time of the initial installation of the SWM-1 Drainage Structure (or other control structure). Paint and application shall be in accordance with Section 231 and 411 of the applicable VDOT Road and Bridge Specifications.

EROSION AND SEDIMENT CONTROL (ESC)

E-1 If the removal of Brush Silt Barrier is specified by the plans or required by the Engineer, the cost of removal and disposal of brush shall be in accordance with Section 109 of the applicable VDOT Road and Bridge Specifications.

E-2 Rock for Check Dams, Inlet Protection, Erosion Control Stone and Riprap shall be in accordance with Section 203 and Section 414 of the applicable VDOT Road and Bridge Specifications.

E-3 The following symbols are used to depict Erosion Control items in the plan assembly:

- (EC-2, Ty.) (EC-2, Ty.) (EC-2, Ty.) (EC-2, Ty.) — Denotes Protective Covering, St'd. EC-2
- (EC-3, Ty.) (EC-3, Ty.) (EC-3, Ty.) — Denotes Soil Stabilization Mat. St'd. EC-3 Type 1, 2 or 3
- (FB) — Denotes Temporary Filter Barrier, St'd EC-5
- (SF-A) (SF-B) — Denotes Temporary Silt Fence, St'd EC-5
- (DC) — Denotes Temporary Diversion Channel, St'd EC-12
- (DD) — Denotes Temporary Diversion Dike, St'd EC-9
- (TC-I) — Denotes Turbidity Curtain, Type - Impervious
- (TC-P) — Denotes Turbidity Curtain, Type - Pervious
- (RCD-1) — Denotes Rock Check Dam, Type I: St'd EC-4
- (RCD-2) — Denotes Rock Check Dam, Type II: St'd EC-4
- (IP-A) — Denotes Inlet Protection, Type A: St'd EC-6
- (IP-B) — Denotes Inlet Protection, Type B: St'd EC-6
- (TD) — Denotes Slope Interrupter, St'd EC-15

MISCELLANEOUS

Manual adjustments have been made to the computer generated cross sections. The applicable computer earthwork listings do NOT reflect the corrections and/or additions.

Maintenance mowing within the confines of the SWM Basins shall be completed by the contractor as necessary.

ADDITIONAL NOTES

1 Overhead power line locations are not shown on these plans. Only the overhead power pole locations are identified. It is the Contractor's responsibility to verify all overhead power locations and coordinate construction accordingly. Work adjacent to power lines shall be in accordance with clearances and buffers as required by the power company/companies and the Virginia High Voltage Protection Act.

2 Post-construction pipe installation inspections are required and shall be in accordance with Section 302.03(d) of the VDOT 2016 Supplemental Road & Bridge Specifications.

3 Call miss utility of Virginia at 811 or 1-800-552-7001 prior to digging. www.va811.com

MAINTENANCE OF TRAFFIC / SEQUENCE OF CONSTRUCTION

See sheet 1K for notes related to Maintenance of Traffic and Sequence of Construction.

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
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DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

TYPICAL SECTIONS

Notes:
1. All pavement widening shall be per VDOT standard WP-2 or as shown on the plans, whichever is greater.
2. 3:1 and flatter slopes shall be used when the right of way is behind the sidewalk (or sidewalk space) in residential or other areas where slopes will be maintained by the property owner.

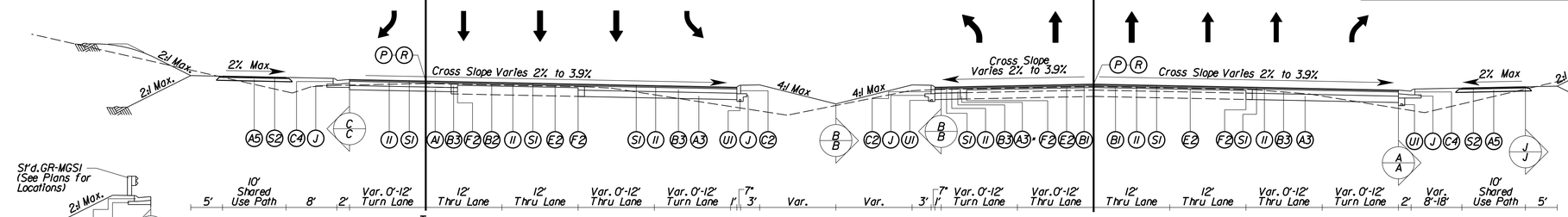
Geoconcepts Engineering, Inc. Chantilly, Virginia MATERIALS ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	2A(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

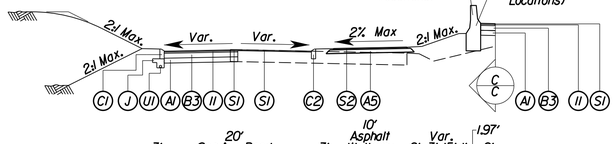
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

SB Centreville Rd. (Rte. 28) Urban Principal Arterial (GS-5)

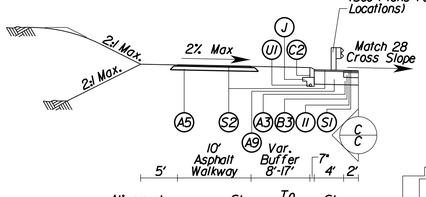


Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28)	101+00.00		155+67.63

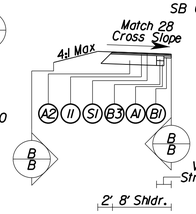
Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28)	103+31.70 105+30.00		104+09.88 105+97.31



Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28) Service Road	104+09.88		105+30.00



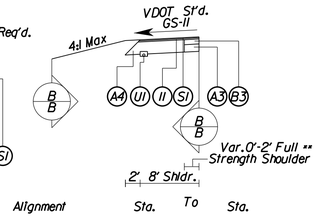
Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28)	105+97.31		107+00.00



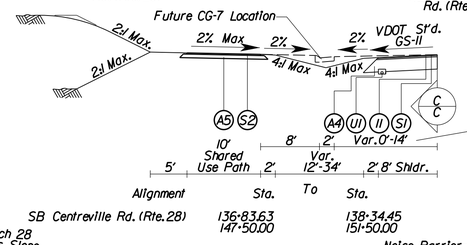
Alignment	Sta.	To	Sta.
NB Centreville Rd. (Rte. 28)	127+13.41		130+69.39

* Use (A1) Subbase from sta. 125+08.84 to 127+13.41

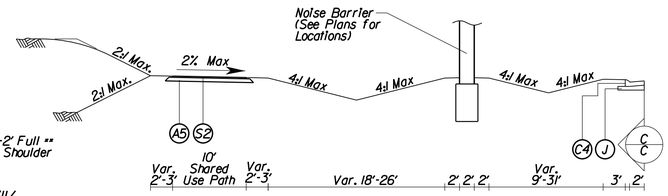
** 2' Full Strength Shoulder Required From Station:
- 110+99.96 to 121+80.34
- 127+13.41 to 132+25.20



Alignment	Sta.	To	Sta.
NB Centreville Rd. (Rte. 28)	106+98.33		118+00.03



Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28)	136+83.63 147+50.00		138+34.45 151+50.00



Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28)	125+74.09		132+34.48

NB Centreville Rd. (Rte. 28) Urban Principal Arterial (GS-5)

Alignment	Sta.	To	Sta.
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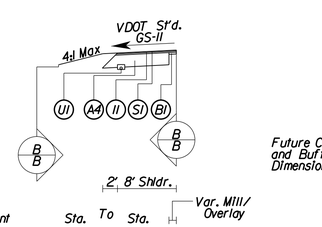

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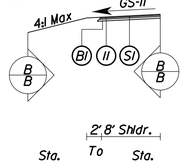
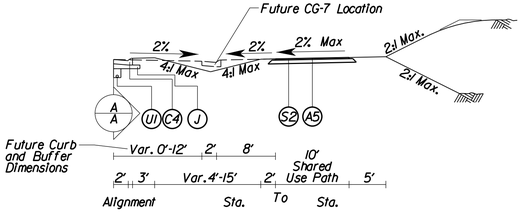
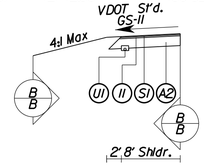
NB Centreville Rd. (Rte. 28)	153+26.49		154+83.44



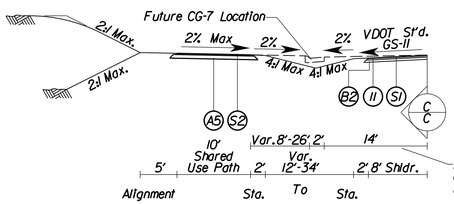
Alignment	Sta.	To	Sta.
NB Centreville Rd. (Rte. 28)	138+23.28 154+83.44		153+26.49 156+00.00



Alignment	Sta.	To	Sta.
NB Centreville Rd. (Rte. 28)	113+00.00 127+12.33		121+80.34 130+82.23

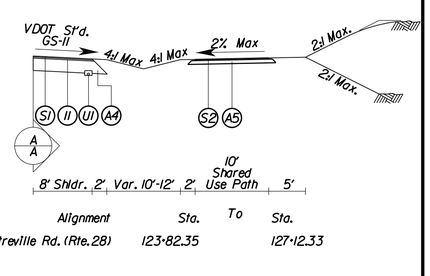


Alignment	Sta.	To	Sta.
NB Centreville Rd. (Rte. 28)	104+10.67		106+98.33

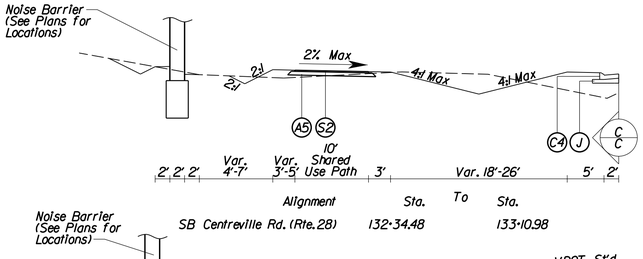


Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28)	138+34.45 151+50.00		147+50.00 155+67.63

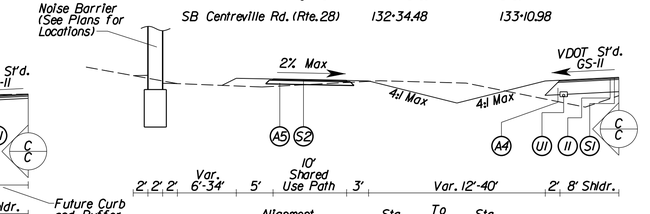
Alignment	Sta.	To	Sta.
NB Centreville Rd. (Rte. 28)	132+99.27		137+22.17



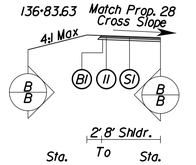
Alignment	Sta.	To	Sta.
NB Centreville Rd. (Rte. 28)	123+82.35		127+12.33



Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28)	132+34.48		133+10.98



Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28)	133+10.98		136+83.63



Alignment	Sta.	To	Sta.
NB Centreville Rd. (Rte. 28)	130+69.39		133+26.32

Key Legend

(X/Y) Replacement Section

(S1) 1.5" Surface Course, Asphalt Concrete, Type SM-9.5D @ 165 Lbs./SY Req'd.
(S2) 2" Surface Course, Asphalt Concrete, Type SM-9.5A @ 220 Lbs./SY Req'd.
(I1) 2" Intermediate Course, Asphalt Concrete, Type IM-19.0A @ 220 Lbs./SY Req'd.
(B1) 3" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
(B2) 3.5" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
(B3) 8" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
(B4) 5.5" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
(B5) 2.5" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
(F1) Not Used
(F2) Full Depth Sawcut, VDOT St'd. WP-2 Req'd.
(A1) 8" Stabilized Aggr. Base Material, No.21A Pugmill Mixed With 4% Cement by Weight Req'd.
(A2) 16" Stabilized Aggr. Base Material, No.21A Pugmill Mixed With 4% Cement by Weight Req'd.
(A3) 12" Aggr. Base Material, Type I, No.21B, Connected to UD-4
(A4) 20" Aggr. Base Material, Type I, No.21B, Connected to UD-4
(A5) 6" Aggr. Base Material, Type I, No.21B Extended 6" on Either Side of Surface Req'd.
(A6) 4" Aggr. Base Material, Type I, No. 21A or No. 21B Extended 4" on Either Side of Surface Req'd.
(A7) 8" Aggr. Base Material, Type I, No.21B, Connected to UD-4
(A8) 14" Aggr. Base Material, Type I, No.21B, Connected to UD-4
(A9) 21.5" Aggr. Base Material, Type I, No.21B, Connected to UD-4
(A10) 13.5" Aggr. Base Material, Type I, No.21B
(E1) Mill Exist. Pavement 1.5"
(E2) Mill Exist. Pavement 2"
(U1) Pavement Underdrain, St'd.UD-4 or Mod.6" UD-4 Req'd. (See Plan Sheets for Schematic Layout and Locations)
(C1) 6" Curb, St'd. CG-2 Req'd.
(C2) 4" Curb, St'd. CG-3 Req'd.
(C3) 6" Curb and Gutter, St'd. CG-6 Req'd.
(C4) 4" Curb and Gutter, St'd. CG-7 Req'd.
(M1) Conc. Raised Median, St'd. MS-1 or MS-1A with 4" Curb Req'd.
(M2) Conc. Raised Median, St'd. MS-1 or MS-1A with 6" Curb Req'd.
(M3) Grass Raised Median, St'd. MS-2 with 4" Curb Req'd.
(M4) Grass Raised Median, St'd. MS-2 with 6" Curb and Gutter Req'd.
(W1) 4' Sidewalk, Hydraulic Cement Conc. Class A3 (See Plan Sheets for Locations and Widths)
(P) Profile Grade Line
(R) Point of Rotation
(J) 6" Aggregate Base Material, Type I, No.21B Extended 1' Behind Back Of Curb

SCALE 0 10' 20'	PROJECT 0028-029-269	SHEET NO. 2A(1)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

Notes:
1. All pavement widening shall be per VDOT standard WP-2 or as shown on the plans, whichever is greater.
2. 3:1 and flatter slopes shall be used when the right of way is behind the sidewalk (or sidewalk space) in residential or other areas where slopes will be maintained by the property owner.

TYPICAL SECTIONS

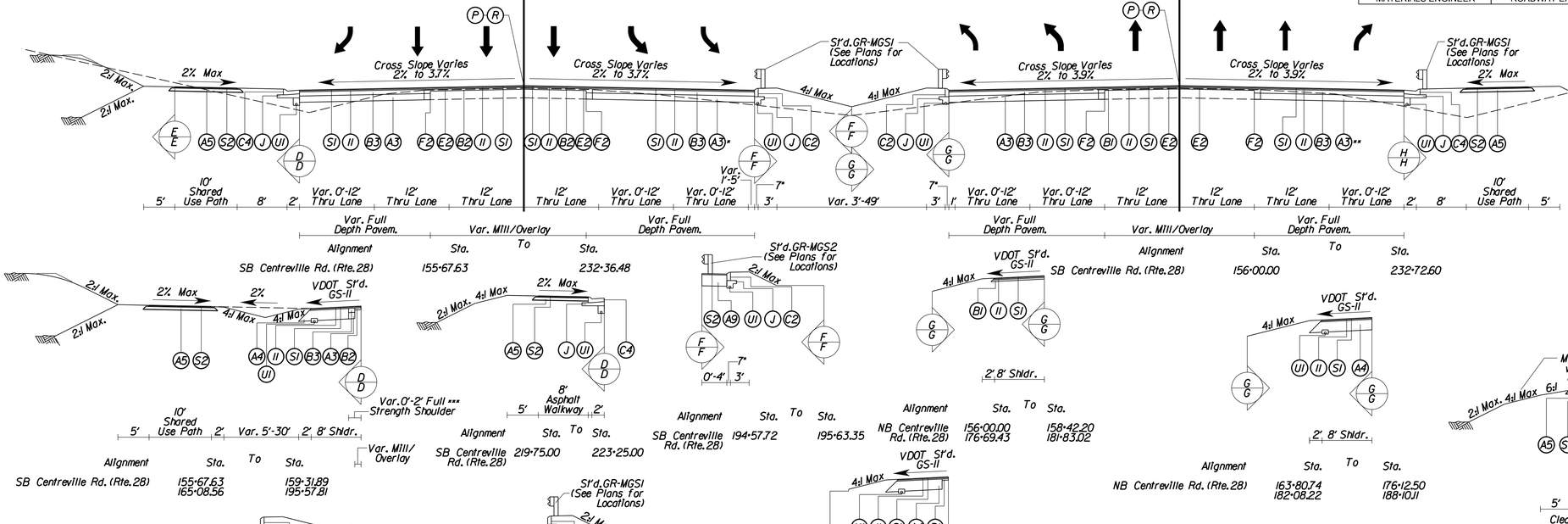
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	2A(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Geoconcepts Engineering, Inc. Chantilly, Virginia MATERIALS ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

SB Centreville Rd. (Rte. 28) Urban Principal Arterial (GS-5)



Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28)	155+67.63		232+36.48
NB Centreville Rd. (Rte. 28)	156+00.00		232+72.60

Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28)	155+67.63 165+08.56		159+31.89 195+57.81

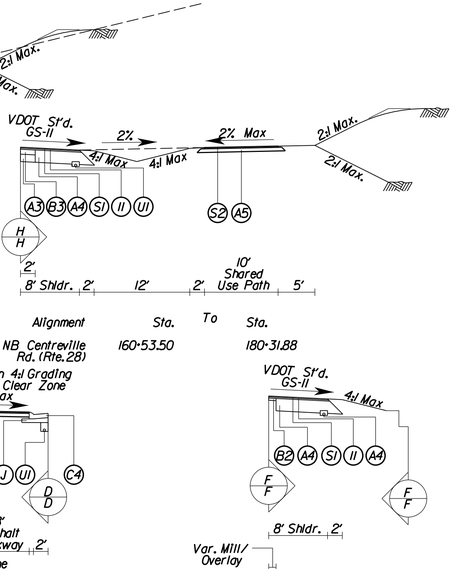
Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28)	219+75.00		223+25.00

Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28)	194+57.72		195+63.35

Alignment	Sta.	To	Sta.
NB Centreville Rd. (Rte. 28)	156+00.00 176+69.43		158+42.20 181+83.02

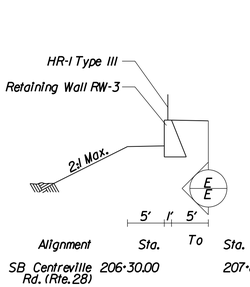
Alignment	Sta.	To	Sta.
NB Centreville Rd. (Rte. 28)	163+80.74 182+08.22		176+12.50 188+10.11

Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28)	218+50		223+25

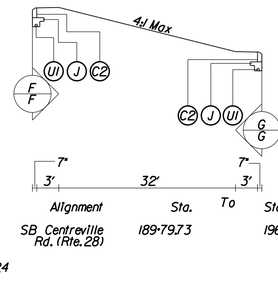


Alignment	Sta.	To	Sta.
NB Centreville Rd. (Rte. 28)	160+53.50		180+31.88

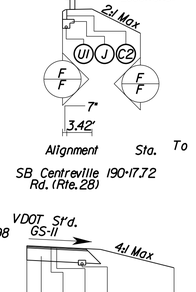
Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28)	181+66.38		186+81.94



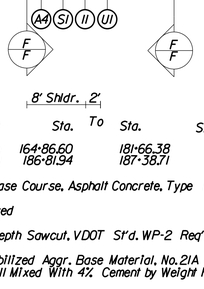
Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28)	206+30.00		207+80.24



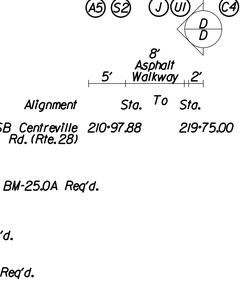
Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28)	189+79.73		196+25.98



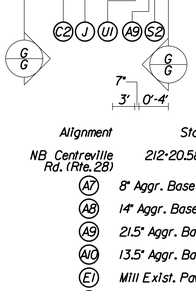
Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28)	190+17.72		194+57.72



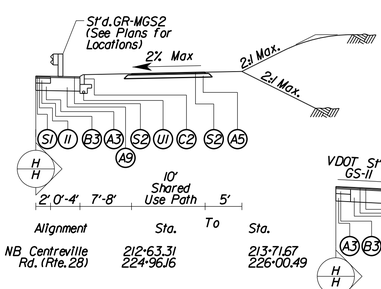
Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28)	164+86.60 186+81.94		181+66.38 187+38.71



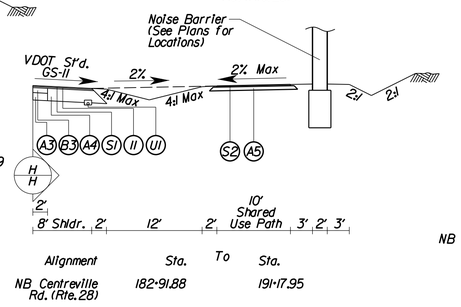
Alignment	Sta.	To	Sta.
SB Centreville Rd. (Rte. 28)	210+97.88		219+75.00



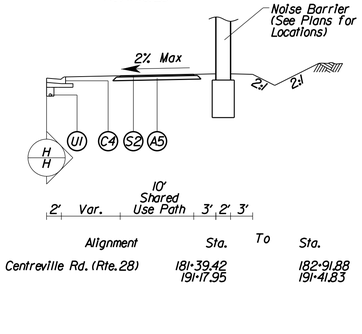
Alignment	Sta.	To	Sta.
NB Centreville Rd. (Rte. 28)	212+20.58		213+21.75



Alignment	Sta.	To	Sta.
NB Centreville Rd. (Rte. 28)	212+63.31 224+96.16		213+71.67 226+00.49



Alignment	Sta.	To	Sta.
NB Centreville Rd. (Rte. 28)	182+91.88		191+17.95



Alignment	Sta.	To	Sta.
NB Centreville Rd. (Rte. 28)	181+39.42 191+17.95		182+91.88 191+41.83

Notes: SB crown shift occurs from sta. 155+67.63 to 166+67.68
NB crown shift occurs from sta. 156+00.00 to 164+00.08
See Plans for locations

* Use (A1) Subbase from sta. 217+34.62 to 224+60.00

** Use (A1) Subbase from sta. 224+50 to 228+34.00

*** 2' Full Strength Shoulder Required From Station 165+08.56 to Station 195+57.81

Key Legend

X/Y Replacement Section

(S1) 1.5" Surface Course, Asphalt Concrete, Type SM-9.5D @ 165 Lbs./SY Req'd.
(S2) 2" Surface Course, Asphalt Concrete, Type SM-9.5A @ 220 Lbs./SY Req'd.
(I1) 2" Intermediate Course, Asphalt Concrete, Type IM-19.0A @ 220 Lbs./SY Req'd.
(B1) 3" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
(B2) 3.5" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
(B3) 8" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
(B4) 5.5" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
(B5) 2.5" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
(F1) Not Used
(F2) Full Depth Sawcut, VDOT St'd. WP-2 Req'd.
(A1) 8" Stabilized Aggr. Base Material, No. 21A Pugmill Mixed With 4% Cement by Weight Req'd.
(A2) 16" Stabilized Aggr. Base Material, No. 21A Pugmill Mixed With 4% Cement by Weight Req'd.
(A3) 12" Aggr. Base Material, Type I, No. 21B, Connected to UD-4
(A4) 20" Aggr. Base Material, Type I, No. 21B, Connected to UD-4
(A5) 6" Aggr. Base Material, Type I, No. 21B Extended 6" on Either Side of Surface Req'd.
(A6) 4" Aggr. Base Material, Type I, No. 21A or No. 21B Extended 4" on Either Side of Surface Req'd.
(A7) 8" Aggr. Base Material, Type I, No. 21B, Connected to UD-4
(A8) 14" Aggr. Base Material, Type I, No. 21B, Connected to UD-4
(A9) 21.5" Aggr. Base Material, Type I, No. 21B, Connected to UD-4
(A10) 13.5" Aggr. Base Material, Type I, No. 21B
(E1) Mill Exist. Pavement 1.5"
(E2) Mill Exist. Pavement 2"
(U1) Pavement Underdrain, St'd. UD-4 or Mod. 6" UD-4 Req'd. (See Plan Sheets for Schematic Layout and Locations)
(C1) 6" Curb, St'd. CG-2 Req'd.
(C2) 4" Curb, St'd. CG-3 Req'd.
(C3) 6" Curb and Gutter, St'd. CG-6 Req'd.
(C4) 4" Curb and Gutter, St'd. CG-7 Req'd.
(M1) Conc. Raised Median, St'd. MS-1 or MS-1A with 4" Curb Req'd.
(M2) Conc. Raised Median, St'd. MS-1 or MS-1A with 6" Curb Req'd.
(M3) Grass Raised Median, St'd. MS-2 with 4" Curb Req'd.
(M4) Grass Raised Median, St'd. MS-2 with 6" Curb and Gutter Req'd.
(W1) 4' Sidewalk, Hydraulic Cement Conc. Class A3 (See Plan Sheets for Locations and Widths)
(P) Profile Grade Line
(R) Point of Rotation
(J) 6" Aggregate Base Material, Type I, No. 21B Extended 1' Behind Back Of Curb

SCALE	PROJECT	SHEET NO.
0 10' 20'	0028-029-269	2A(2)

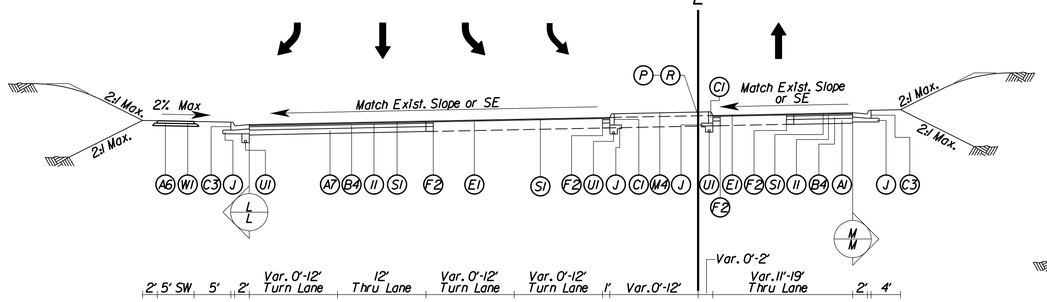
Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

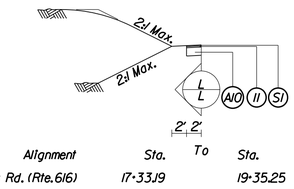
Notes:
1. All pavement widening shall be per VDOT standard WP-2 or as shown on the plans, whichever is greater.
2. 3:1 and flatter slopes shall be used when the right of way is behind the sidewalk (or sidewalk space) in residential or other areas where slopes will be maintained by the property owner.

TYPICAL SECTIONS

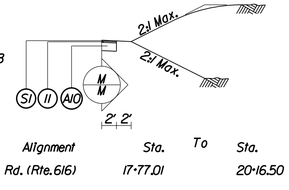
Ordway Rd. (Rte.616) Urban Minor Arterial (GS-6)



Alignment	Sta.	To	Sta.
Ordway Rd. (Rte.616)	10+00.00		14+75.98

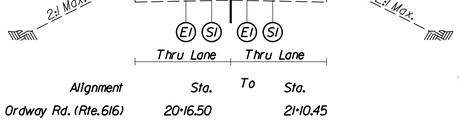


Alignment	Sta.	To	Sta.
Ordway Rd. (Rte.616)	17+33.19		19+35.25



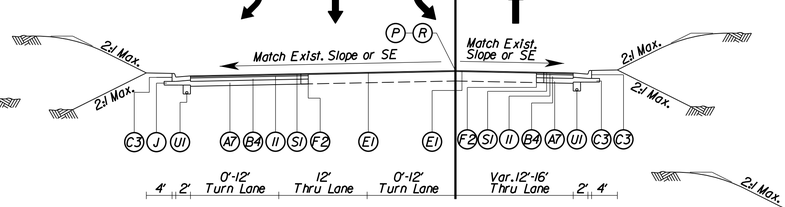
Alignment	Sta.	To	Sta.
Ordway Rd. (Rte.616)	17+77.01		20+16.50

Ordway Rd. (Rte.616) Urban Minor Arterial (GS-6)



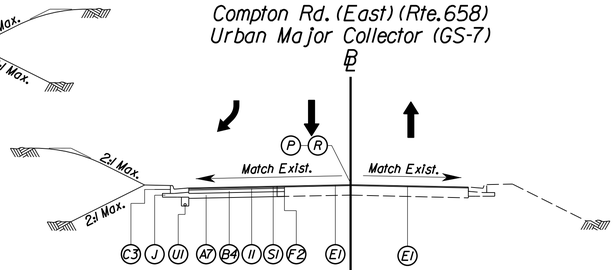
Alignment	Sta.	To	Sta.
Ordway Rd. (Rte.616)	20+16.50		21+10.45

Compton Rd. (East) (Rte.658) Urban Major Collector (GS-7)



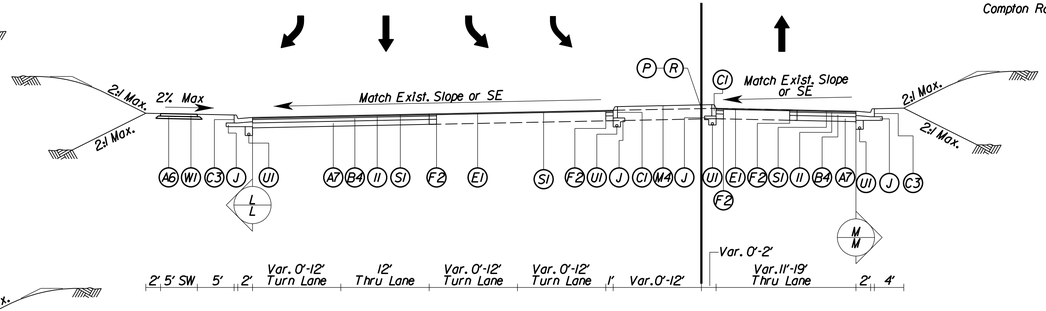
Alignment	Sta.	To	Sta.
Compton Rd. (East) (Rte.658)	10+00.00		12+57.07

Compton Rd. (East) (Rte.658) Urban Major Collector (GS-7)



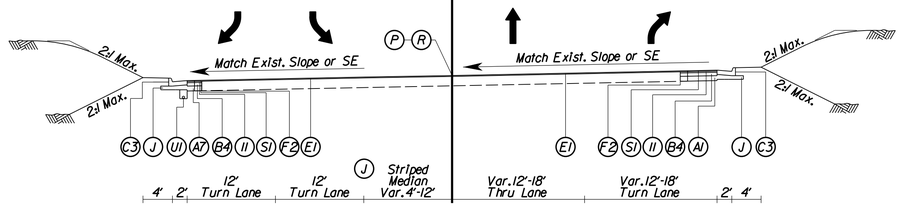
Alignment	Sta.	To	Sta.
Compton Rd. (East) (Rte.658)	12+57.07		14+59.45

Ordway Rd. (Rte.616) Urban Minor Arterial (GS-6)



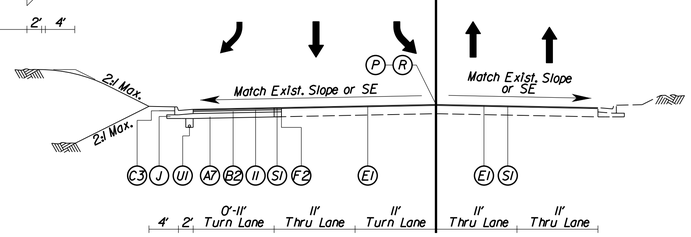
Alignment	Sta.	To	Sta.
Ordway Rd. (Rte.616)	14+75.98		20+16.50

Compton Rd. (West) (Rte.658) Urban Major Collector (GS-7)



Alignment	Sta.	To	Sta.
Compton Rd. (West) (Rte.658)	10+00.00		12+51.76

Old Mill Rd. (Rte.8591) Urban Major Collector (GS-7)



Alignment	Sta.	To	Sta.
Old Mill Rd. (Rte. 8591)	10+00.00		13+76.67

Key Legend

X/Y Replacement Section

- (S1) 1.5" Surface Course, Asphalt Concrete, Type SM-9.5D @ 165 Lbs./SY Req'd.
- (S2) 2" Surface Course, Asphalt Concrete, Type SM-9.5A @ 220 Lbs./SY Req'd.
- (I1) 2" Intermediate Course, Asphalt Concrete, Type IM-19.0A @ 220 Lbs./SY Req'd.
- (B1) 3" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (B2) 3.5" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (B3) 8" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (B4) 5.5" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (B5) 2.5" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (F1) Not Used
- (F2) Full Depth Sawcut, VDOT Std. WP-2 Req'd.
- (AI) 8" Stabilized Aggr. Base Material, No.21A Pugmill Mixed With 4% Cement by Weight Req'd.
- (A2) 16" Stabilized Aggr. Base Material, No.21A Pugmill Mixed With 4% Cement by Weight Req'd.
- (A3) 12" Aggr. Base Material, Type I, No.21B, Connected to UD-4
- (A4) 20" Aggr. Base Material, Type I, No.21B, Connected to UD-4
- (A5) 6" Aggr. Base Material, Type I, No.21B Extended 6" on Either Side of Surface Req'd.
- (A6) 4" Aggr. Base Material, Type I, No. 21A or No. 21B Extended 4" on Either Side of Surface Req'd.
- (A7) 8" Aggr. Base Material, Type I, No.21B, Connected to UD-4
- (A8) 14" Aggr. Base Material, Type I, No.21B, Connected to UD-4
- (A9) 21.5" Aggr. Base Material, Type I, No.21B, Connected to UD-4
- (AIO) 13.5" Aggr. Base Material, Type I, No.21B
- (E1) Mill Exist. Pavement 1.5"
- (E2) Mill Exist. Pavement 2"
- (UI) Pavement Underdrain, Std.UD-4 or Mod.6" UD-4 Req'd. (See Plan Sheets for Schematic Layout and Locations)
- (CI) 6" Curb, Std. CG-2 Req'd.
- (C2) 4" Curb, Std. CG-3 Req'd.
- (C3) 6" Curb and Gutter, Std. CG-6 Req'd.
- (C4) 4" Curb and Gutter, Std. CG-7 Req'd.
- (M1) Conc. Raised Median, Std. MS-1 or MS-1A with 4" Curb Req'd.
- (M2) Conc. Raised Median, Std. MS-1 or MS-1A with 6" Curb Req'd.
- (M3) Grass Raised Median, Std. MS-2 with 4" Curb Req'd.
- (M4) Grass Raised Median, Std. MS-2 with 6" Curb and Gutter Req'd.
- (WI) 4" Sidewalk, Hydraulic Cement Conc. Class A3 (See Plan Sheets for Locations and Widths)
- (P) Profile Grade Line
- (R) Point of Rotation
- (J) 6" Aggregate Base Material, Type I, No.21B Extended 1' Behind Back Of Curb

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	2A(3)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Geoconcepts Engineering, Inc. Chantilly, Virginia MATERIALS ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

Note: The pavement sections for Bradenton Drive, Tallavast Drive, and Green Trails Blvd. shall match that of Route 28 (Centreville Road).

SCALE	PROJECT	SHEET NO.
0 10' 20'	0028-029-269	2A(3)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

Notes:
1. All pavement widening shall be per VDOT standard WP-2 or as shown on the plans,whichever is greater.
2. 3:1 and flatter slopes shall be used when the right of way is behind the sidewalk (or sidewalk space) in residential or other areas where slopes will be maintained by the property owner.

TYPICAL SECTIONS

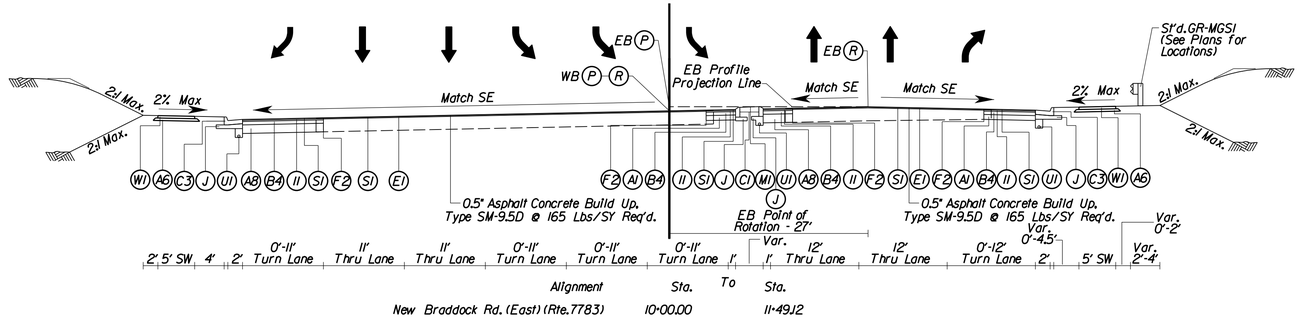
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	2A(4)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

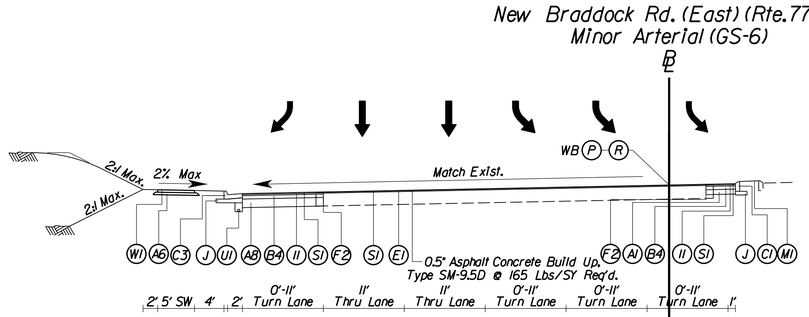
Geoconcepts Engineering, Inc. Chantilly, Virginia MATERIALS ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

New Braddock Rd. (East) (Rte.7783) Minor Arterial (GS-6)



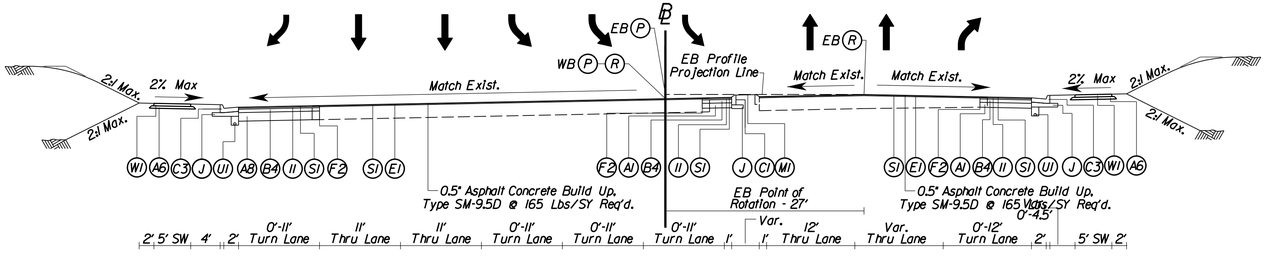
Alignment	Sta.	To	Sta.
New Braddock Rd. (East) (Rte.7783)	10+00.00		11+49.12

New Braddock Rd. (East) (Rte.7783) Minor Arterial (GS-6)



Alignment	Sta.	To	Sta.
New Braddock Rd. (East) (Rte.7783)	12+38.21		17+71.31

New Braddock Rd. (East) (Rte.7783) Minor Arterial (GS-6)



Alignment	Sta.	To	Sta.
New Braddock Rd. (East) (Rte.7783)	11+49.12		12+38.21

Key Legend

- Replacement Section
- (S1) 1.5" Surface Course, Asphalt Concrete, Type SM-9.5D @ 165 Lbs./SY Req'd.
- (S2) 2" Surface Course, Asphalt Concrete, Type SM-9.5A @ 220 Lbs./SY Req'd.
- (I1) 2" Intermediate Course, Asphalt Concrete, Type IM-19.0A @ 220 Lbs./SY Req'd.
- (B1) 3" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (B2) 3.5" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (B3) 8" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (B4) 5.5" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (B5) 2.5" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (F1) Not Used
- (F2) Full Depth Sawcut, VDOT Std. WP-2 Req'd.
- (A1) 8" Stabilized Aggr. Base Material, No.21A Pugmill Mixed With 4% Cement by Weight Req'd.
- (A2) 16" Stabilized Aggr. Base Material, No.21A Pugmill Mixed With 4% Cement by Weight Req'd.
- (A3) 12" Aggr. Base Material, Type I, No.21B, Connected to UD-4
- (A4) 20" Aggr. Base Material, Type I, No.21B, Connected to UD-4
- (A5) 6" Aggr. Base Material, Type I, No.21B Extended 6" on Either Side of Surface Req'd.
- (A6) 4" Aggr. Base Material, Type I, No. 21A or No. 21B Extended 4" on Either Side of Surface Req'd.
- (A7) 8" Aggr. Base Material, Type I, No.21B, Connected to UD-4
- (A8) 14" Aggr. Base Material, Type I, No.21B, Connected to UD-4
- (A9) 21.5" Aggr. Base Material, Type I, No.21B, Connected to UD-4
- (A10) 13.5" Aggr. Base Material, Type I, No.21B
- (E1) Mill Exist. Pavement 1.5"
- (E2) Mill Exist. Pavement 2"
- (U1) Pavement Underdrain, Std.UD-4 or Mod.6" UD-4 Req'd. (See Plan Sheets for Schematic Layout and Locations)
- (C1) 6" Curb, Std. CG-2 Req'd.
- (C2) 4" Curb, Std. CG-3 Req'd.
- (C3) 6" Curb and Gutter, Std. CG-6 Req'd.
- (C4) 4" Curb and Gutter, Std. CG-7 Req'd.
- (M1) Conc. Raised Median, Std. MS-1 or MS-1A with 4" Curb Req'd.
- (M2) Conc. Raised Median, Std. MS-1 or MS-1A with 6" Curb Req'd.
- (M3) Grass Raised Median, Std. MS-2 with 4" Curb Req'd.
- (M4) Grass Raised Median, Std. MS-2 with 6" Curb and Gutter Req'd.
- (W1) 4" Sidewalk, Hydraulic Cement Conc. Class A3 (See Plan Sheets for Locations and Widths)
- (P) Profile Grade Line
- (R) Point of Rotation
- (J) 6" Aggregate Base Material,Type I, No.21B Extended 1' Behind Back Of Curb

SCALE 0 10' 20'	PROJECT 0028-029-269	SHEET NO. 2A(4)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

Notes:
1. All pavement widening shall be per VDOT standard WP-2 or as shown on the plans, whichever is greater.
2. 3:1 and flatter slopes shall be used when the right of way is behind the sidewalk (or sidewalk space) in residential or other areas where slopes will be maintained by the property owner.

TYPICAL SECTIONS

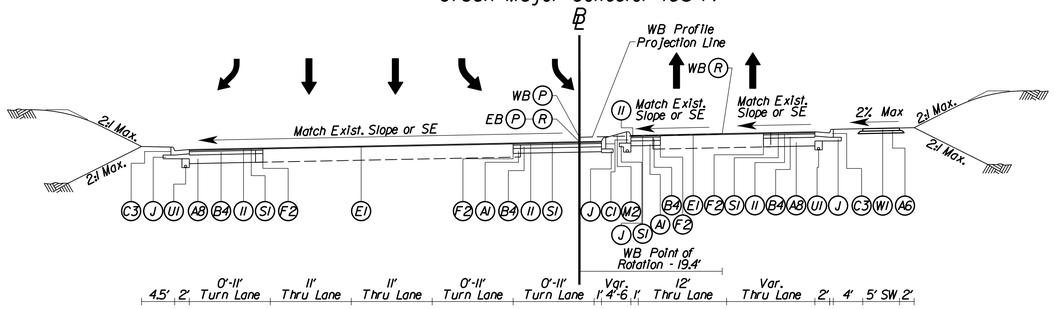
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
.	VA.	28	0028-029-269 P101 R201 C501	2A(5)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

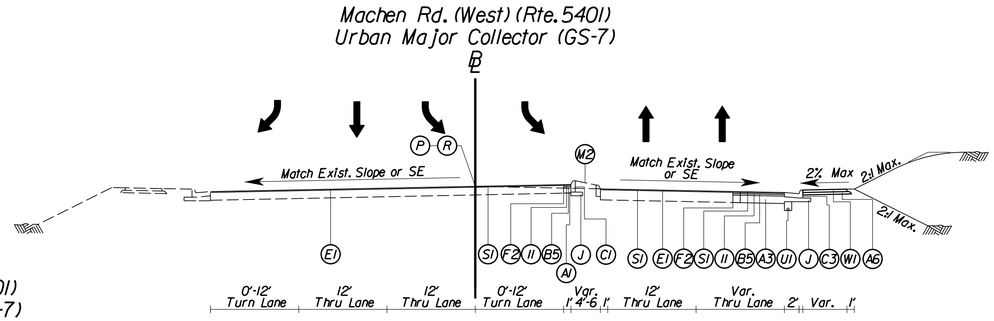
Geoconcepts Engineering, Inc. Chantilly, Virginia MATERIALS ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

New Braddock Rd. (West) (Rte. 8350) Urban Major Collector (GS-7)



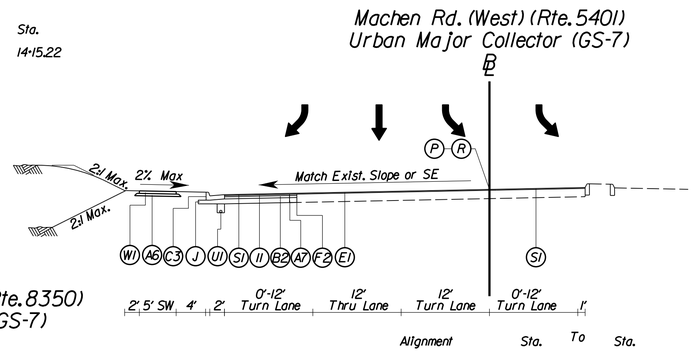
Alignment	Sta.	To	Sta.
New Braddock Rd. (West) (Rte. 8350)	10+00.00		14+15.22

Machen Rd. (West) (Rte. 5401) Urban Major Collector (GS-7)



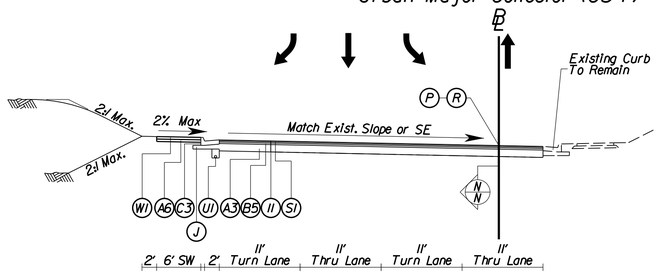
Alignment	Sta.	To	Sta.
Machen Rd. (West) (Rte. 5401)	10+00.00		12+05.45

Machen Rd. (West) (Rte. 5401) Urban Major Collector (GS-7)



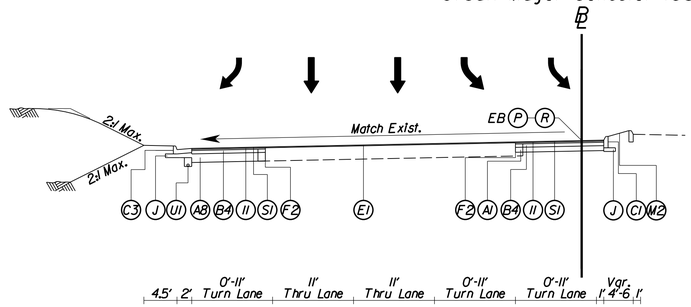
Alignment	Sta.	To	Sta.
Machen Rd. (West) (Rte. 5401)	13+45.25		16+06.89

Machen Rd. (East) (Rte. 5401) Urban Major Collector (GS-7)



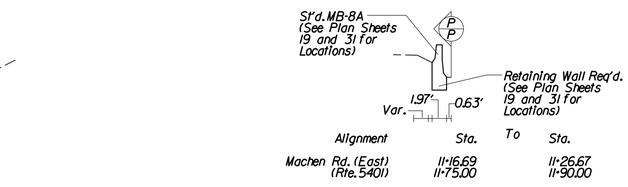
Alignment	Sta.	To	Sta.
Machen Rd. (East) (Rte. 5401)	10+00.00		12+43.11

New Braddock Rd. (West) (Rte. 8350) Urban Major Collector (GS-7)

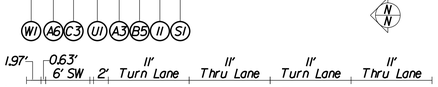


Alignment	Sta.	To	Sta.
New Braddock Rd. (West) (Rte. 8350)	14+15.22		17+01.33

Machen Rd. (East) (Rte. 5401) Urban Major Collector (GS-7)



Alignment	Sta.	To	Sta.
Machen Rd. (East) (Rte. 5401)	11+16.69		11+26.67
	11+75.00		11+90.00



Alignment	Sta.	To	Sta.
Machen Rd. (East) (Rte. 5401)	11+26.67		11+75.00

Key Legend

X Y — *Replacement Section*

- (S1) 1.5" Surface Course, Asphalt Concrete, Type SM-9.5D @ 165 Lbs./SY Req'd.
- (S2) 2" Surface Course, Asphalt Concrete, Type SM-9.5A @ 220 Lbs./SY Req'd.
- (I1) 2" Intermediate Course, Asphalt Concrete, Type IM-19.0A @ 220 Lbs./SY Req'd.
- (B1) 3" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (B2) 3.5" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (B3) 8" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (B4) 5.5" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (B5) 2.5" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (F1) Not Used
- (F2) Full Depth Sawcut, VDOT St'd. WP-2 Req'd.
- (A1) 8" Stabilized Aggr. Base Material, No. 21A Pugmill Mixed With 4% Cement by Weight Req'd.
- (A2) 16" Stabilized Aggr. Base Material, No. 21A Pugmill Mixed With 4% Cement by Weight Req'd.
- (A3) 12" Aggr. Base Material, Type I, No. 21B, Connected to UD-4
- (A4) 20" Aggr. Base Material, Type I, No. 21B, Connected to UD-4
- (A5) 6" Aggr. Base Material, Type I, No. 21B Extended 6" on Either Side of Surface Req'd.
- (A6) 4" Aggr. Base Material, Type I, No. 21A or No. 21B Extended 4" on Either Side of Surface Req'd.
- (A7) 8" Aggr. Base Material, Type I, No. 21B, Connected to UD-4
- (A8) 14" Aggr. Base Material, Type I, No. 21B, Connected to UD-4
- (A9) 21.5" Aggr. Base Material, Type I, No. 21B, Connected to UD-4
- (A10) 13.5" Aggr. Base Material, Type I, No. 21B
- (E1) Mill Exist. Pavement 1.5"
- (E2) Mill Exist. Pavement 2"
- (UI) Pavement Underdrain, St'd. UD-4 or Mod. 6" UD-4 Req'd. (See Plan Sheets for Schematic Layout and Locations)
- (C1) 6" Curb, St'd. CG-2 Req'd.
- (C2) 4" Curb, St'd. CG-3 Req'd.
- (C3) 6" Curb and Gutter, St'd. CG-6 Req'd.
- (C4) 4" Curb and Gutter, St'd. CG-7 Req'd.
- (M1) Conc. Raised Median, St'd. MS-1 or MS-1A with 4" Curb Req'd.
- (M2) Conc. Raised Median, St'd. MS-1 or MS-1A with 6" Curb Req'd.
- (M3) Grass Raised Median, St'd. MS-2 with 4" Curb Req'd.
- (M4) Grass Raised Median, St'd. MS-2 with 6" Curb and Gutter Req'd.
- (W1) 4" Sidewalk, Hydraulic Cement Conc. Class A3 (See Plan Sheets for Locations and Widths)
- (P) Profile Grade Line
- (R) Point of Rotation
- (J) 6" Aggregate Base Material, Type I, No. 21B Extended 1' Behind Back Of Curb

SCALE	PROJECT	SHEET NO.
0 10' 20'	0028-029-269	2A(5)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

Notes:
1. All pavement widening shall be per VDOT standard WP-2 or as shown on the plans,whichever is greater.
2. 3:1 and flatter slopes shall be used when the right of way is behind the sidewalk (or sidewalk space) in residential or other areas where slopes will be maintained by the property owner.

TYPICAL SECTIONS

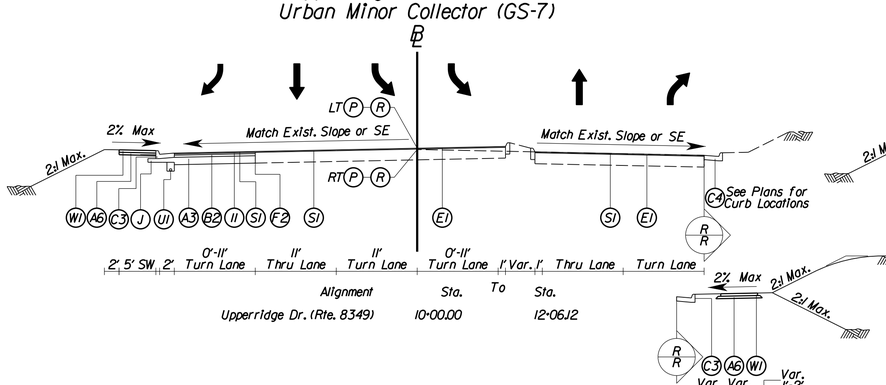
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
.	VA.	28	0028-029-269 P101 R201 C501	2A(6)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

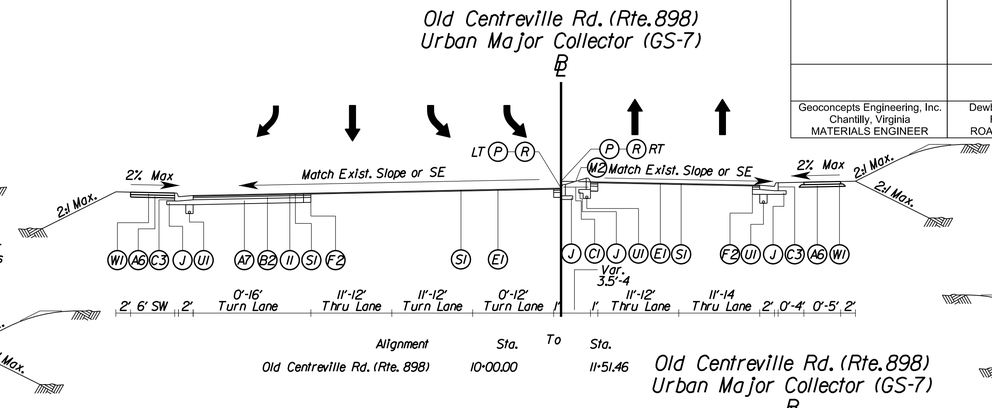
Geoconcepts Engineering, Inc. Chantilly, Virginia MATERIALS ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

Upperridge Dr. (Rte.8349) Urban Minor Collector (GS-7)



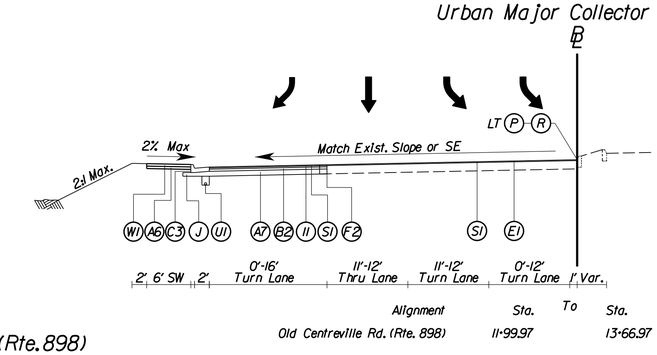
Alignment	Sta.	To	Sta.
Upperridge Dr. (Rte. 8349)	10+00.00		12+06.12
Upperridge Dr. (Rte. 8349)	10+51.01		10+85.76

Old Centreville Rd. (Rte.898) Urban Major Collector (GS-7)



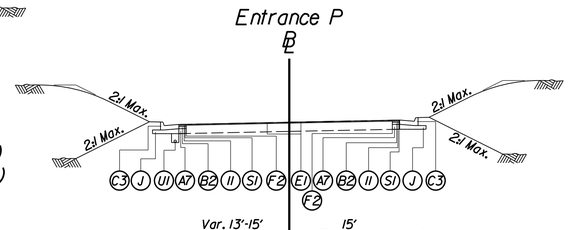
Alignment	Sta.	To	Sta.
Old Centreville Rd. (Rte. 898)	10+00.00		11+51.46

Old Centreville Rd. (Rte.898) Urban Major Collector (GS-7)



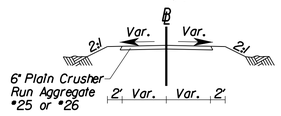
Alignment	Sta.	To	Sta.
Old Centreville Rd. (Rte. 898)	11+99.97		13+66.97

Entrance P



Alignment	Sta.	To	Sta.
Entrance P	10+00.00		10+83.67

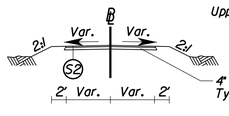
Private Entrances (PE-1, Type I)



Alignment

Entrance A
Entrance B
Entrance D
Entrance R

Private Entrances (PE-1, Type III)

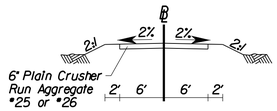


4" Aggr. Base Material, Type I, No. 21A or No. 21B

Alignment

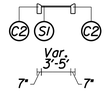
Entrance C
Entrance E
Entrance F
Entrance G
Entrance H
Entrance I
Entrance J
Entrance K
Entrance L
Entrance M
Entrance N
Entrance S
Darkwood Drive

SWM Access



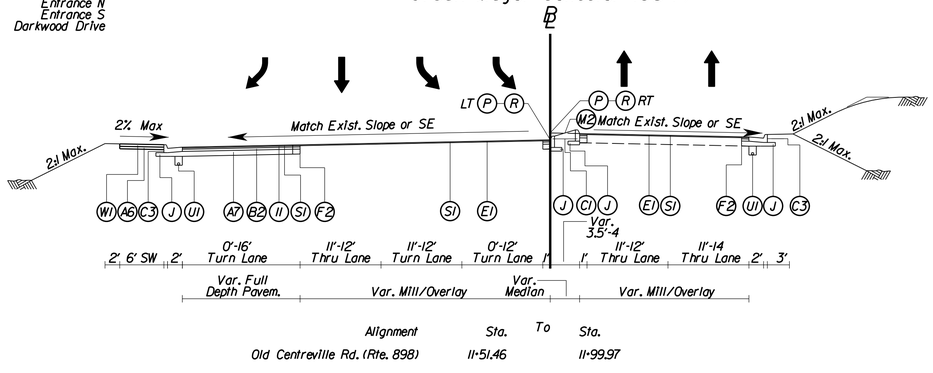
Note: Underground SWM Facility access Roads to be built with the Shared Use Path pavement section.

Curb Cut Opening - Drainage Flume



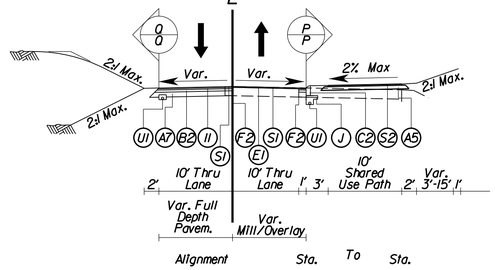
Note: Curb Flume radii vales from 3'-5' Curb cut opening varies from 8'-14'

Old Centreville Rd. (Rte.898) Urban Major Collector (GS-7)

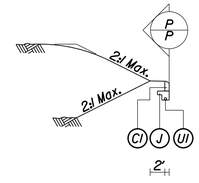


Alignment	Sta.	To	Sta.
Old Centreville Rd. (Rte. 898)	11+51.46		11+99.97

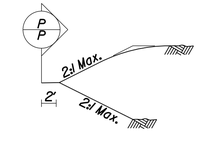
Bull Run Service Road Service Road (GS-9)



Alignment	Sta.	To	Sta.
Bull Run Service Road	10+33.96		14+80.59



Alignment	Sta.	To	Sta.
Service Road	14+04.32		14+74.48



Alignment	Sta.	To	Sta.
Service Road	10+33.96		11+82.85

Key Legend

X Y — *Replacement Section*

- (SI) 1.5" Surface Course, Asphalt Concrete, Type SM-9.5D @ 165 Lbs./SY Req'd.
- (S2) 2" Surface Course, Asphalt Concrete, Type SM-9.5A @ 220 Lbs./SY Req'd.
- (II) 2" Intermediate Course, Asphalt Concrete, Type IM-19.0A @ 220 Lbs./SY Req'd.
- (BI) 3" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (B2) 3.5" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (B3) 8" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (B4) 5.5" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (B5) 2.5" Base Course, Asphalt Concrete, Type BM-25.0A Req'd.
- (FI) Not Used
- (F2) Full Depth Sawcut, VDOT Std. WP-2 Req'd.
- (AI) 8" Stabilized Aggr. Base Material, No.21A Pugmill Mixed With 4% Cement by Weight Req'd.
- (A2) 16" Stabilized Aggr. Base Material, No.21A Pugmill Mixed With 4% Cement by Weight Req'd.
- (A3) 12" Aggr. Base Material, Type I, No.21B, Connected to UD-4
- (A4) 20" Aggr. Base Material, Type I, No.21B, Connected to UD-4
- (A5) 6" Aggr. Base Material, Type I, No.21B Extended 6" on Either Side of Surface Req'd.
- (A6) 4" Aggr. Base Material, Type I, No. 21A or No. 21B Extended 4" on Either Side of Surface Req'd.
- (A7) 8" Aggr. Base Material, Type I, No.21B, Connected to UD-4
- (A8) 14" Aggr. Base Material, Type I, No.21B, Connected to UD-4
- (A9) 21.5" Aggr. Base Material, Type I, No.21B, Connected to UD-4
- (AIO) 13.5" Aggr. Base Material, Type I, No.21B
- (EI) Mill Exist. Pavement 1.5"
- (E2) Mill Exist. Pavement 2"
- (UI) Pavement Underdrain, Std.UD-4 or Mod.6" UD-4 Req'd. (See Plan Sheets for Schematic Layout and Locations)
- (CI) 6" Curb, Std. CG-2 Req'd.
- (C2) 4" Curb, Std. CG-3 Req'd.
- (C3) 6" Curb and Gutter, Std. CG-6 Req'd.
- (C4) 4" Curb and Gutter, Std. CG-7 Req'd.
- (MI) Conc. Raised Median, Std. MS-1 or MS-1A with 4" Curb Req'd.
- (M2) Conc. Raised Median, Std. MS-1 or MS-1A with 6" Curb Req'd.
- (M3) Grass Raised Median, Std. MS-2 with 4" Curb Req'd.
- (M4) Grass Raised Median, Std. MS-2 with 6" Curb and Gutter Req'd.
- (WI) 4" Sidewalk, Hydraulic Cement Conc. Class A3 (See Plan Sheets for Locations and Widths)
- (P) Profile Grade Line
- (R) Point of Rotation
- (J) 6" Aggregate Base Material, Type I, No.21B Extended 1' Behind Back Of Curb

SCALE	PROJECT	SHEET NO.
0 10' 20'	0028-029-269	2A(6)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

STORMWATER MANAGEMENT
PROJECT DATA SHEET

(LOCALLY FUNDED PROJECT)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	2B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
HYDRAULIC ENGINEER

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

PROJECT INFORMATION

PROJECT INFORMATION				
PROJECT NAME	CENTREVILLE ROAD WIDENING			
COUNTY PROJECT NUMBER	2G40-136-000, 2G40-100-000, AA1400143-17			
VDOT UPC NUMBER (N/A)	LOCALLY FUNDED			
PROJECT LIMITS / LENGTH (FT)	100' NORTH OF RT. 28 BULL RUN BRIDGE TO .15 MILES NORTH OF OLD CENTREVILLE RD.			
FUNDING SOURCE	400-C40013, 400-C40017, 500-C50000			
DATE OF FUNDING OBLIGATION				
LATITUDE/ LONGITUDE	LAT	38.8207	LONG	-77.4417
6TH ORDER HUC NUMBER	PL45, PL46			

TYPE OF DEVELOPMENT:

☐ NEW DEVELOPMENT ☒ REDEVELOPMENT

STORMWATER MANAGEMENT TECHNICAL CRITERIA USED:

☒ VSMP TECHNICAL CRITERIA IIB / FFX CO STORMWATER MANAGEMENT ORDINANCE ARTICLE 4

☐ VSMP TECHNICAL CRITERIA IIC / FFX CO STORMWATER MANAGEMENT ORDINANCE ARTICLE 5

SWM WAIVER/EXCEPTION(S) REQUIRED: YES ☐ NO ☒ APPROVAL DATE: N/A

TYPE(S): LDS NUMBER: N/A

A) IS PROJECT LOCATED WITHIN THE WATER SUPPLY PROTECTION OVERLAY DISTRICT (WSPOD)?	YES ☐	NO* ☒ *WSPOD N/A TO THIS PROJECT
B) IS PROJECT A PUBLIC IMPROVEMENT (PI) PLAN SUBJECT TO FULL LDS REVIEW/APPROVAL?	YES ☒	NO ☐
C) IS PROJECT A LINEAR PROJECT SUBJECT TO VDOT REVIEW/APPROVAL AND VDOT LUP PROCESS?	YES ☒	NO ☐

IF ANSWER TO BOTH A & B IS YES, SEE NOTE (3). IF ANSWER TO BOTH A & C IS YES, SEE NOTE (3.1).

CONSTRUCTION SITE AREAS

TOTAL SITE AREA	56.13		(AC)	2,445,023		(SF)
TOTAL DISTURBED AREA	56.13		(AC)	2,445,023		(SF)
TOTAL SITE IMPERVIOUS AREA	PRE	14.10	(AC)	POST	23.77	(AC)

VPDES PERMIT REQUIREMENTS (CHECK ONE):

☐ DISTURBED AREA < 1 (AC) ; VPDES PERMIT NOT REQUIRED.

☒ DISTURBED AREA ≥ 1 (AC) ; VPDES PERMIT IS REQUIRED.

RECEIVING WATERS

WATERSHED NAME: BULL RUN, CUB RUN	RECEIVING STREAM: BULL RUN, BIG & LITTLE ROCKY RUN
IS THERE A LOCAL TMDL RESTRICTION WITHIN THE PROJECT WATERSHED AREA	YES ☒ NO ☐
IF YES PROVIDE DESCRIPTION OF IMPAIRED WATERS + TMDL TYPE	CHESAPEAKE BAY (NITROGEN, PHOSPHORUS, SEDIMENT), POTOMAC RIVER (PCB's), BULL RUN (SEDIMENT), BIG & LITTLE ROCKY RUN (BMB's)

NOTE:

(1) FOR ADDITIONAL DETAILS SEE THE LATEST REVISION OF THE DRAINAGE/SWM REPORT AND EROSION AND SEDIMENT CONTROL PLAN SHEET _____.

(2) THIS IS A COUNTY ADMINISTERED PROJECT AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS PREPARED BY FAIRFAX COUNTY. WHEN APPLICABLE, IT WILL BE INCLUDED WITH THE CONSTRUCTION PACKAGE.

(3) PURCHASE OF NUTRIENT CREDITS MAY NOT BE USED TO SATISFY DEQ'S WATER QUALITY REQUIREMENTS ON THIS PROJECT.

(3.1) PURCHASE OF NUTRIENT CREDITS MAY BE USED TO SATISFY DEQ'S WATER QUALITY REQUIREMENTS ON THIS PROJECT.

STORMWATER INFORMATION TABLE

STORMWATER INFORMATION TABLE (LDS FORM)

STORMWATER INFORMATION

HIGH DENSITY POLYETHYLENE (HDPE) USED ON THIS PROJECT YES ☒ NO ☐

THE PLAN MEETS: TIME LIMITS ON APPLICABILITY OF APPROVED DESIGN CRITERIA ☐

SWM FACILITIES (PROPOSED ONLY) THE PLAN MEETS THE GRANDFATHERING CRITERIA ☐

FACILITY ID NO.	FACILITY TYPE	PURPOSE	AREA TREATED (ACRES)	LATITUDE (DECIMAL DEGREE)	LONGITUDE (DECIMAL DEGREE)	WATERSHED	RECEIVING WATERS	MAINTENANCE AGREEMENT Y/N	VAHUC CODE	LENGTH/ AREA OF FACILITY	UNIT (FT/ SF)	NO. OF BLDG. SERVED (FOR ROOFTOP DISCONNECT)
46	Wet Pond Level 2	Both	14.36	38.8096	-77.4497	BULL RUN	BULL RUN	N	PL46	2.84	AC	N/A
22	Bioretention Basin Level 1	Both	4.25	38.8150	-77.4467	BULL RUN	BULL RUN	N	PL46	0.89	AC	N/A
45	Wet Pond Level 1	Both	4.84	38.8219	-77.4399	BULL RUN	LITTLE ROCKY RUN	N	PL46	0.95	AC	N/A
41	UGD Sand Filter Level 1	Both	1.5	38.8282	-77.4357	CUB RUN	BIG ROCKY RUN	N	PL45	1920	SF	N/A
51	UGD Detention	Water Quantity	N/A	38.8303	-77.4341	CUB RUN	BIG ROCKY RUN	N	PL45	1320	SF	N/A
51	UGD Detention	Water Quantity	N/A	38.8355	-77.4324	CUB RUN	BIG ROCKY RUN	N	PL45	960	SF	N/A

VPDES REQUIRED YES ☒ NO ☐

VPDES PERMIT NO. (IF TIME LIMITS): _____

COUNTY STORMWATER PERMIT REQUIRED YES ☒ NO ☐

SWM FACILITIES DESIGNED USING: TECHNICAL CRITERIA 4 (NEW) ☒

TECHNICAL CRITERIA 5 (OLD) ☐

DISTURBED AREA (DA) WITHIN WATERSHED(S):

WATERSHED 1 BULL RUN DA= 40.59 (ACRES)

WATERSHED 2 CUB RUN DA= 15.52 (ACRES)

TOTAL DISTURBED AREA= 56.11 (ACRES)

TABLE 1.
WATER QUALITY ANALYSIS PER VSMP TECHNICAL CRITERIA IIB ** / FFX CO STORMWATER MANAGEMENT ORDINANCE ARTICLE 4 **

RECEIVING WATERS	OUTFALL ID	OUTFALL LOCATION	TOTAL DISTURBED AREA (AC)	TOTAL DISTURBED AREA (SF)	PRE DEVELOPMENT LAND USE FORESTED (AC)	PRE DEVELOPMENT LAND USE TURF (AC)	PRE DEVELOPMENT LAND USE IMPERVIOUS AREA (AC)	PRE DEVELOPMENT LAND USE OTHER (AC)	POST DEVELOPMENT LAND USE FORESTED (AC)	POST DEVELOPMENT LAND USE TURF (AC)	POST DEVELOPMENT LAND USE IMPERVIOUS AREA (AC)	POST DEVELOPMENT LAND USE OTHER (AC)	PHOSPHORUS REMOVAL REQUIRED (LB/YR)	ON-SITE PHOSPHORUS REMOVAL PROVIDED (LB/YR)	IS PROJECT LOCATED WITHIN WSPOD YES (3)(3.1)	IS PROJECT LOCATED WITHIN WSPOD NO (4)
BULL RUN	1	99+50	56.11	2,444,152	11.93	30.03	14.15	N/A	0.12	32.17	23.82	N/A	30.47	23.53		NO (4)*
BULL RUN	2	104+25														
BULL RUN	3	116+00														
BULL RUN	4	121+00														
BULL RUN	5	119+25														
BULL RUN	5A	113+75														
BULL RUN	6	140+75														
BULL RUN	7	155+00														
BULL RUN	7A	161+25														
LITTLE ROCKY RUN	8	170+57														
LITTLE ROCKY RUN	8A	181+09														
BIG ROCKY RUN	9	200+50														
BIG ROCKY RUN	9A	205+00														
BIG ROCKY RUN	10A	210+90														
BIG ROCKY RUN	10B	215+50														
BIG ROCKY RUN	11A	225+00														
BIG ROCKY RUN	11B	230+30														
BIG ROCKY RUN	12	232 +652														

NOTE:

(4) PHOSPHORUS REMOVAL MAY BE PROVIDED BY THE PURCHASE OF OFFSITE NUTRIENT CREDITS. PLEASE SEE TABLE 2 BELOW FOR MORE INFORMATION.

*WSPOD NOT APPLICABLE TO PROJECT

** USE TECHNICAL CRITERIA IIC AND ARTICLE 5 RESPECTIVELY FOR GRANDFATHERED PROJECTS.

- REVISE TABLE HEADING IF THE PROJECT IS GRANDFATHERED.
- DELETE THIS BUBBLED AND ENCLOSED NOTE AND ASTERISKS ONCE PROPER HEADING IS SELECTED.

TABLE 2.
OFFSITE COMPLIANCE FOR WATER QUALITY (NUTRIENT CREDITS)

NUTRIENT CREDIT BANK NAME	BANK CERTIFICATION #	4TH ORDER HUC	NUTRIENT CREDIT TO BE ACQUIRED (LB/YR)	PURCHASE LETTER (MM/DD/YY) (5)
WINDRIGHT RUN NUTRIENT FACILITY	POTOMAC-019	02070008	8.4	04/27/20

NOTE:

(5) THE "AFFIDAVIT OF PHOSPHOROUS CREDIT SALE" WILL BE PROVIDED IN THE STORMWATER MANAGEMENT COMPUTATION BOOK UPON COMPLETION OF PURCHASE BY FAIRFAX COUNTY. PLEASE SEE LEDGER BELOW FOR EVIDENCE OF NUTRIENT CREDIT AVAILABILITY/RESERVATION.

EVIDENCE OF NUTRIENT CREDIT AVAILABILITY FROM FCDOT'S BULK NUTRIENT CREDITS RESERVE

Purchase #4: Ledger- Windright Run Nutrient Facility (DEQ Certification No. Potomac-019) Bulk Purchase of Nutrient Credits by Fairfax County DOT

This spreadsheet applies ONLY to Projects which draw Nutrient Credits from FCDOT's Bulk Purchase.

Tracking #	Project #	Project Name	UPC # (if any)	Funding Source	Fund Number	Project Location 8 Digit HUC	Watershed Name	Phosphorous Removal Required (lbs/yr.)	Cost/Project	TP Transferred (LB.)	TP Balance (LB.)	TN Retired (LB.)	TN Balance (LB.)	DEQ Permit #	Purchase Agreement Date	Date Requested	Date of Credit Transfer	Comments
4-1	2G40-100-000	Route 28 (Centreville Road) Widening, Prince William County/ Fairfax County line to RT 29	N/A	NVTA 70%	400-C40017	02070010	Middle Potomac – Anacostia-Occoquan (Cub Run & Lower Bull Run)	8.40	$186,900.00	8.40	11.60	113.06	156.14	N/A	4/27/2020	7/21/2020	Pending	Reservation accounts for 25% load reduction through nutrient credit purchase (1.62 lbs Cub Run & 6.78 lbs Lower Bull Run)

SITE DEVELOPMENT AND INSPECTIONS DIVISION APPROVAL STAMP

CONSULTANT CERTIFIED E&S PLAN REVIEWER OR PE

CONSULTANT REVIEWER SEAL & SIGNATURE

CERTIFIED CONSULTANT STORMWATER MANAGEMENT PLAN REVIEWER

CONSULTANT REVIEWER SEAL & SIGNATURE

OWNER/REPRESENTATIVE CONTACT INFORMATION

NAME: VINCENT MARTUCCI, BRANCH CHIEF, STORMWATER & TRANSPORTATION CONSTRUCITON BRANCH

ADDRESS: UTILITIES DESIGN AND CONSTRUCTION DIVISION
12000 GOVERNMENT CENTER PKWY
SUITE 463
FAIRFAX, VA 22035

PHONE NUMBER: 703-324-5111

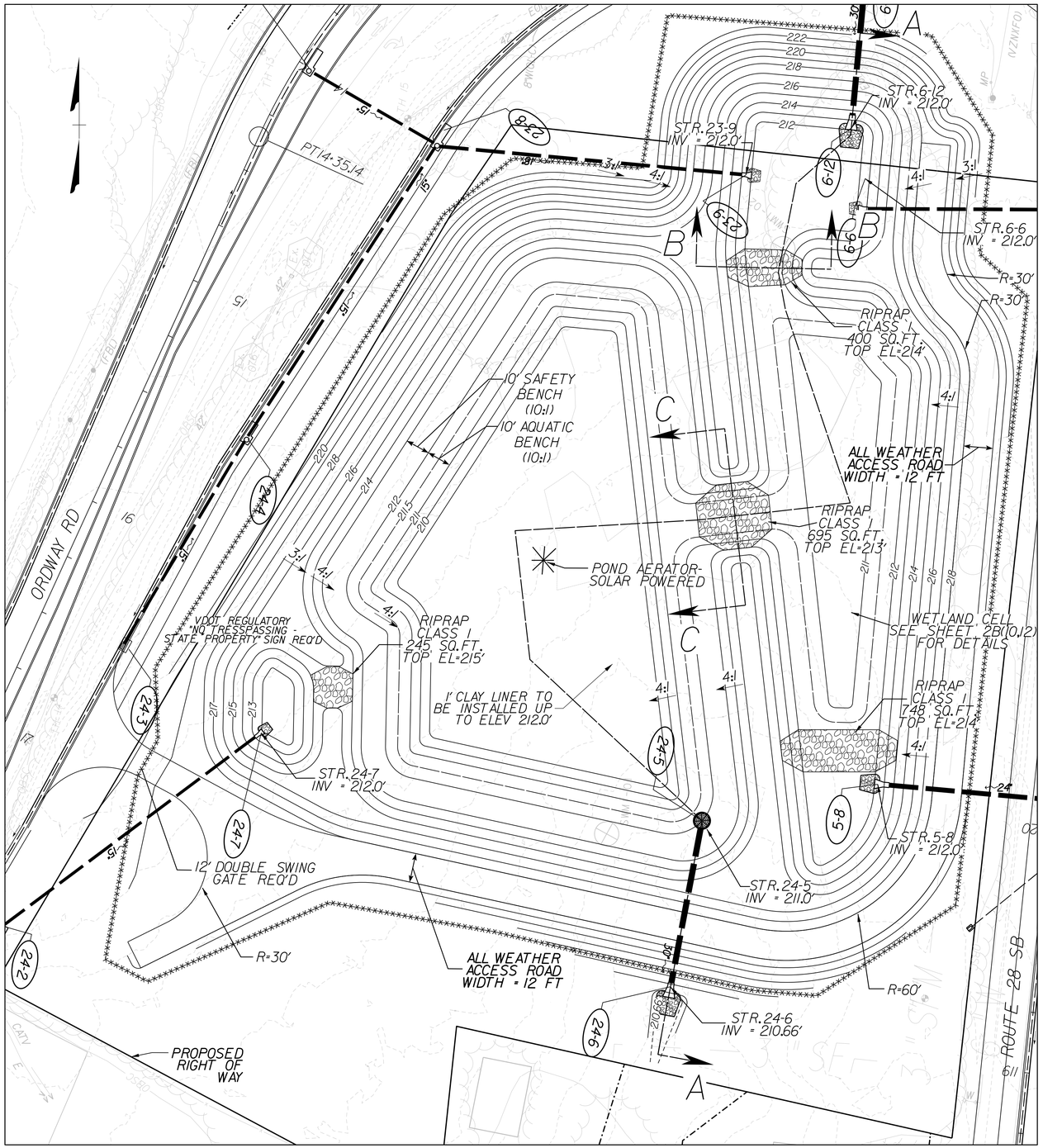
EMAIL ADDRESS: VINCENT.MARTUCCI@FAIRFAXCOUNTY.GOV

PROJECT	SHEET NO.
0028-029-269	2B

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

STORMWATER MANAGEMENT

SWM 1 WET POND LEVEL 2



REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	2B(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
HYDRAULIC ENGINEER

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

NOTES:

1. WHEN INSTALLING THE STEPS AND TRASH RACK TO THE CONTROL STRUCTURE, THE CONTRACTOR SHALL ENSURE THAT THE STEPS AND TRASH RACK ACCESS DOOR ARE ORIENTED TO THE EMBANKMENT SIDE OF THE CONTROL STRUCTURE, AND TO THE EXTENT POSSIBLE, ARE IN DIRECT ALIGNMENT WITH EACH OTHER.

2. STEPS ARE TO BE INSTALLED ON THE INSIDE OF THE WATER QUALITY STRUCTURE AND ACCESSIBLE FROM THE EMBANKMENT SIDE ON THE OUTSIDE OF THE STRUCTURE.

3. A HINGED, LOCKABLE ACCESS DOOR WITH A MINIMUM 2'X2' CLEAR OPENING, SHALL BE PROVIDED ON ALL TRASH RACKS AND ALIGNED DIRECTLY OVER THE STEPS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PROPOSED BMP'S ONCE ALL CONNECTIONS HAVE BEEN COMPLETED, AND SHALL CERTIFY THAT THE BMP'S HAVE BEEN MAINTAINED PER MANUFACTURER'S MAINTENANCE GUIDELINES OR IN ACCORDANCE WITH THE TYPICAL INDUSTRY MAINTENANCE STANDARDS. THE BMPS WILL ULTIMATELY BE OWNED AND MAINTAINED BY VDOT ONCE THE FACILITY IS ACCEPTED OR THE PROJECT IS COMPLETE, WHICHEVER OCCURS FIRST.

5. REMOVE ALL EXISTING TREES WITHIN 15 FEET OF THE EMBANKMENT AND 25 FEET OF THE OUTLET STRUCTURE.

6. INSTALL A METERED ROD IN THE SEDIMENT FOREBAY.

7. GATE VALVE TO BE OF INDUSTRIAL GRADE METAL, COMPLETE WITH APPROPRIATE STEM EXTENSION AND GATE WHEEL. GATE VALVE TO BE CHOSEN BY CONTRACTOR AND APPROVED BY VDOT

8. THE CONTRACTER SHALL INSTALL A SOLAR POWERED AERATION MECHANISM THAT SATISFIES VA DCR STORMWATER DESIGN SPECIFICATION NO. 14, SECTION 6.8.

9. THE CONTRACTOR SHALL INSTALL A CLAY LINER MEETING THE REQUIREMENTS PER VA BMP CLEARINGHOUSE SPECIFICATION #14, TABLE 14.4 CLAY LINER SPECIFICATIONS.

10. WHEN THE BMP IS ACCEPTED, VDOT SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE STORMWATER FACILITY. MAINTENANCE RESPONSIBILITIES SHALL BE ESTABLISHED IN THE REQUIRED DEED OF DEDICATION.

AS-BUILT DRAWING OF STORMWATER MANAGEMENT FACILITIES:

THE CONTRACTOR SHALL PROVIDE 'AS-BUILT' DRAWINGS OF ALL STORMWATER MANAGEMENT FACILITIES LOCATED ON THE SHEET. THE 'AS-BUILT' DRAWINGS SHALL SHOW THE ACTUAL FINISHED GROUND CONTOURS, OUTLET STRUCTURE DIMENSIONS AND ELEVATIONS, ETC. AS THEY EXIST AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF VIRGINIA.

SWM 1

THIS WATER QUALITY FACILITY TREATS 14.36 ACRES AND ACHIEVES A TOTAL PHOSPHORUS LOAD REDUCTION OF 15.25 LB/YR

SWM 1 Treatment Requirements

BMP Type:	Wet Pond	
Level:	2	
Treated Drainage Area:	14.36	acres
Impervious:	7.74	acres
Managed Turf:	6.62	acres
Wooded:	0.00	acres
Weighted Rv:	0.62	
Required Tv:	1.12	ac-ft
Required Tv:	48608	cu. ft
Required Tv Elevation:	211.70	ft
Elev Tv Provided:	**212.00**	**ft**
Tv Provided:	**58414**	**cu.ft**

POST - CONDITIONS DISCHARGES

2 YEAR = 0.55 CFS
10 YEAR = 4.5 CFS
100 YEAR = 44.0 CFS

POST - CONDITIONS WATER SURFACE (WS) ELEVATIONS

2 YEAR WS ELEV. = 213.9 FT
10 YEAR WS ELEV. = 214.7 FT
100 YEAR WS ELEV = 215.9 FT

TREATMENT VOLUME PROVIDED = 1.58 ACRE-FT
TREATMENT VOLUME ELEVATION = 212.0 FT

SUMMARY TABLE:

SWM	WET POND									OUTLET STRUCTURE	
	DRAINAGE AREA (AC)	PERMANENT POOL AREA (SF)	PERMANENT POOL ELEV. (FT)	TOP OF DAM (FT)	DESIGN 10-YR WSE (FT)	DESIGN 100-YR WSE (FT)	FREEBOARD (100-YR) (FT)	PRE-TREATMENT METHOD	WATER TABLE ELEV. (FT)	STRUCTURE TYPE	TOP OF STR. (FT)
1	17.7	27403	212.0	218.0	214.7	215.9	2.1	FOREBAY	NOT ENCOUNTERED	SWM-1	214.5

SCALE
0 25' 50'

	PROJECT	SHEET NO.
	0028-029-269	2B(1)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
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STORMWATER MANAGEMENT

SWM 1 WET POND LEVEL 2

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	2B(2)

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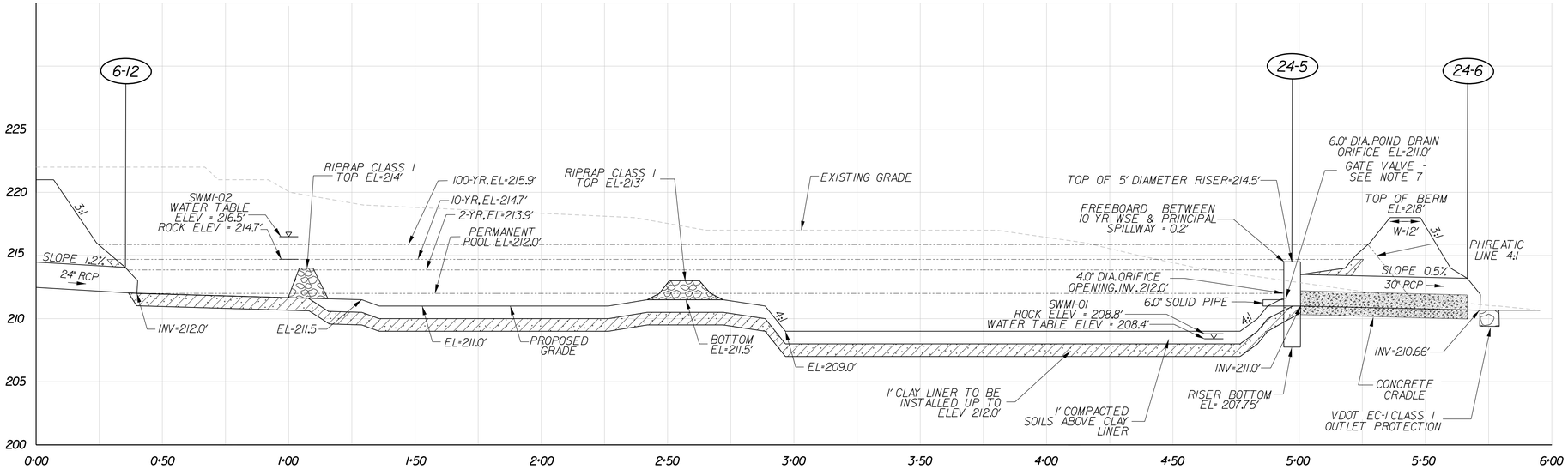
Dewberry Engineers Inc.
Fairfax, Virginia
HYDRAULIC ENGINEER

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

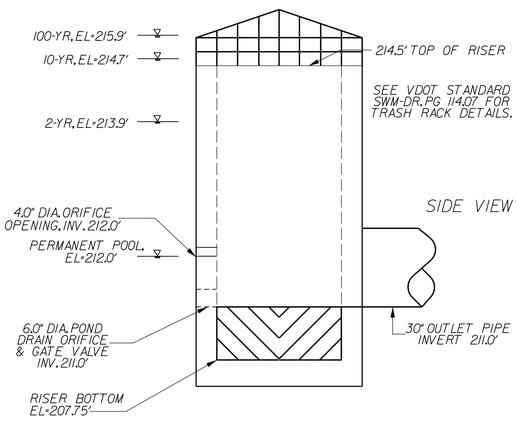


HORIZONTAL 1"=25'
VERTICAL 1"=5'

SECTION A-A
SWM 1 WET POND LEVEL 2

STAGE-STORAGE-DISCHARGE RELATIONSHIP (ABOVE WET POOL ONLY) SWM 1

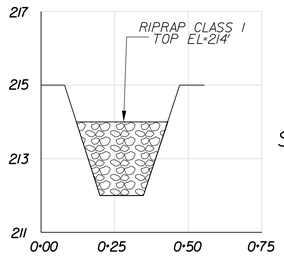
Elevation (ft)	Discharge (cfs)	Storage (acre-ft)
212.0	0.00	0.00
212.5	0.24	0.48
213.0	0.38	0.97
213.5	0.49	1.54
214.0	0.57	2.12
214.5	0.64	2.77
215.0	20.82	3.42
215.5	41.33	4.15
216.0	44.86	4.88
216.5	48.13	5.69
217.0	51.16	6.49
218.0	56.78	8.20



RISER STRUCTURE 24-5
(SWM 1) (NTS)

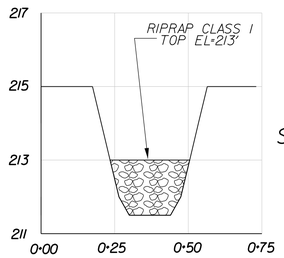
WET POND LEVEL 2 DESIGN COMPLIANCE

$TV_{WP} = (1.0 \times Rv \times (A/12)) \times$ ANY REMAINING VOLUME FROM UPSTREAM BMP	REQUIRED	$TV = (1.5 \times 0.62 \times (14.36/12)) \times 43560$ FT/AC = 48,608 CU.FT.
	PROVIDED	58,414 CU.FT AT EL.= 212 FT
MULTIPLE CELL DESIGN	PROVIDED (3 FOREBAYS, 1 WETLAND, 1 PERMANENT POOL)	
LENGTH/WIDTH RATIO OR FLOW PATH = 3:1 OR MORE; LENGTH OF SHORTEST FLOW PATH / OVERALL LENGTH = 0.8 OR MORE	LENGTH (360') / WIDTH (120') = 3.0	
	SHORTEST PATH (323') / OVERALL (360') = 0.9	
WETLANDS MORE THAN 10% OF POND AREA	PROVIDED	
TREES, SHRUBS, AND HERBACEOUS PLANTS IN POND BUFFERS	PROVIDED	
AERATION	PROVIDED	



SECTION B-B
SWM 1 WET POND LEVEL 2

HORIZONTAL 1"=25'
VERTICAL 1"=2'



SECTION C-C
SWM 1 WET POND LEVEL 2

HORIZONTAL 1"=25'
VERTICAL 1"=2'

STAGE-STORAGE RELATIONSHIP (INCLUDING WET POOL) SWM 1

Stage - Storage Relationship for SWM Basin

Elevation (ft)	Storage (Cu Ft)	Storage (Ac-Ft)	Area (Sf)
209.00	0	0.000	0.309
210.00	14498	0.333	0.357
211.00	31152	0.715	0.408
211.50	42332	0.972	0.626
212.00	58414	1.341	0.856
213.00	100521	2.308	1.081
214.00	150681	3.459	1.223
215.00	207204	4.757	1.373
216.00	271081	6.223	1.561
217.00	341229	7.834	1.660
218.00	415710	9.543	1.760

PROJECT	SHEET NO.
0028-029-269	2B(2)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

STORMWATER MANAGEMENT
SWM I TEMPORARY SEDIMENT BASIN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	2B(2A)

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Fairfax, Virginia
HYDRAULIC ENGINEER

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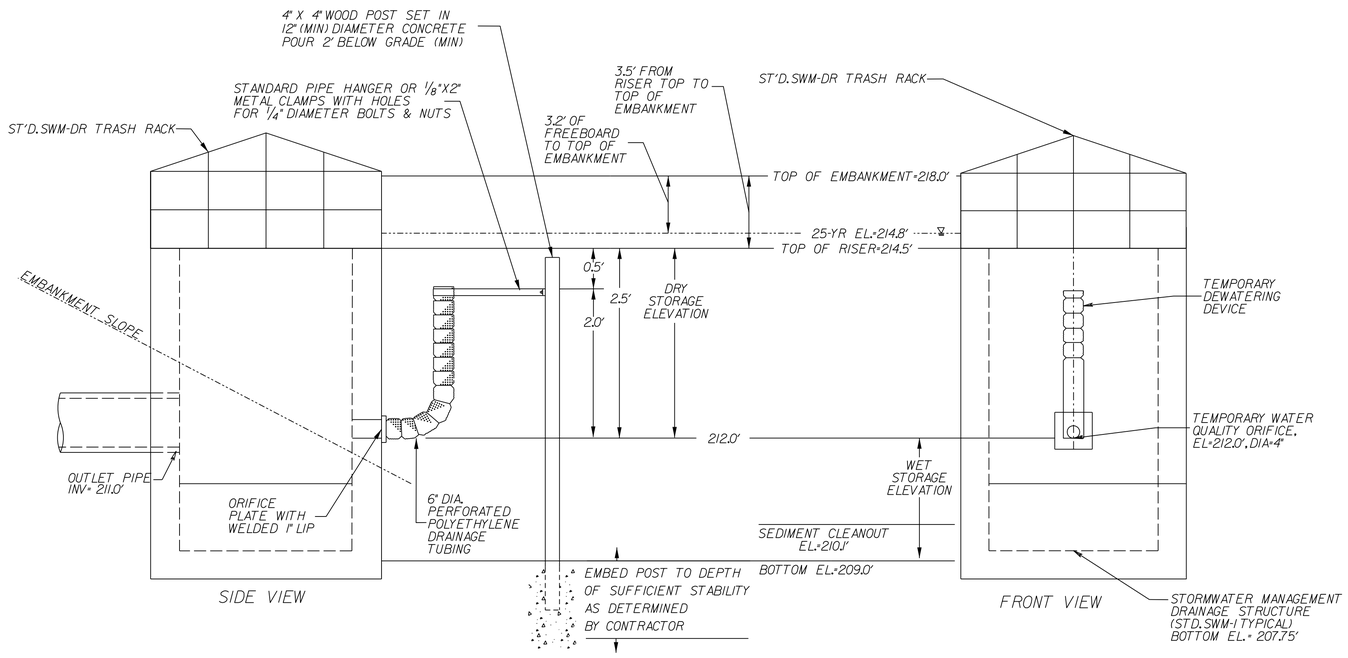
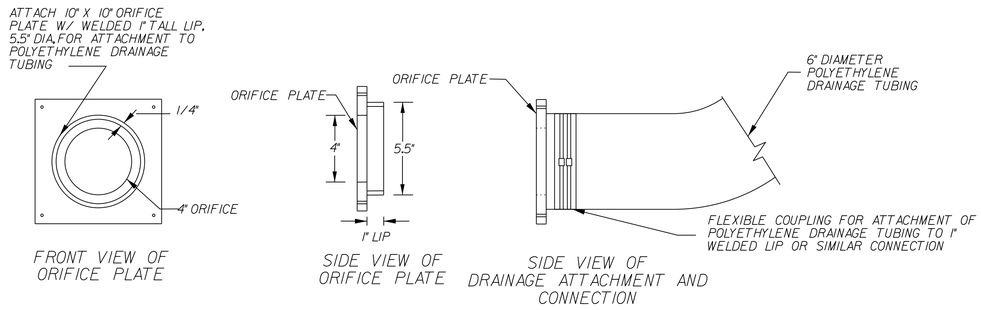


SWM-I AND SWM-DR TEMPORARY SEDIMENT BASIN CONFIGURATION (TYPICAL DETAILS NTS)



SEDIMENT BASIN CONTROL CONNECTION (NTS)

NOTES:

1. DETAILS ON THIS SHEET ARE TO BE USED TO MODIFY THE PERMANENT STORMWATER MANAGEMENT DRAINAGE STRUCTURE (SWM-I RISER) WHERE THE STORMWATER MANAGEMENT BASIN IS TO BE USED FOR A TEMPORARY SEDIMENT BASIN DURING PROJECT CONSTRUCTION.
2. GRADE STORMWATER MANAGEMENT BASIN AS SHOWN IN PLANS. ELEVATIONS AND VOLUME PER TEMPORARY SEDIMENT BASIN SUMMARY TABLE.
3. DEWATERING DEVICE AND COMPONENTS AND TEMPORARY WATER TIGHT PLATES (IF ANY), AS SHOWN IN THE DETAIL, ARE TO BE REMOVED AND PERMANENT WATER QUALITY ORIFICE STEEL PLATE IS TO BE INSTALLED WHEN BASIN IS CONVERTED TO PERMANENT CONFIGURATION.
4. WHEN INSTALLING THE STEPS AND TRASH RACK TO THE CONTROL STRUCTURE, THE CONTRACTOR SHALL ENSURE THAT THE STEPS AND TRASH RACK HINGED ACCESS DOOR ARE ORIENTED TO THE EMBANKMENT SIDE OF THE CONTROL STRUCTURE, AND ARE TO THE EXTENT POSSIBLE, IN DIRECT ALIGNMENT WITH EACH OTHER (SEE NOTE 7).
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PROPOSED BMPS ONCE ALL CONNECTIONS HAVE BEEN COMPLETED, AND SHALL CERTIFY THAT THE BMPS HAVE BEEN MAINTAINED PER MANUFACTURER'S MAINTENANCE GUIDELINES OR IN ACCORDANCE WITH THE TYPICAL INDUSTRY MAINTENANCE STANDARDS PRIOR TO TRANSFER TO VDOT.
6. TEMPORARY SEDIMENT BASIN SHOULD NOT BE CONVERTED TO PERMANENT BASIN DESIGN CONFIGURATIONS UNTIL CONSTRUCTED AREA WITHIN THE DRAINAGE AREA TO BASIN HAS ACHIEVED FINAL STABILIZATION PER DEQ SPECIFICATION 3.14.
7. REFERENCE VDOT ROAD AND BRIDGE STANDARDS 2016 - SWM-1 & SWM-DR FOR RISER DETAILS.

TEMPORARY SEDIMENT BASIN SUMMARY

POND ID	CONTRIBUTING DRAINAGE AREA	WET STORAGE REQUIRED	WET STORAGE PROVIDED	DRY STORAGE REQUIRED	DRY STORAGE PROVIDED	SEDIMENT CLEANOUT ELEVATION	TOP OF WET STORAGE	TOP OF DRY STORAGE
	(AC)	(CY)	(CY)	(CY)	(CY)	(FT)	(FT)	(FT)
SWM 1	17.7	1185.9	2163.5	1185.9	4463.1	210.11	212.0	214.5

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
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SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

STORMWATER MANAGEMENT

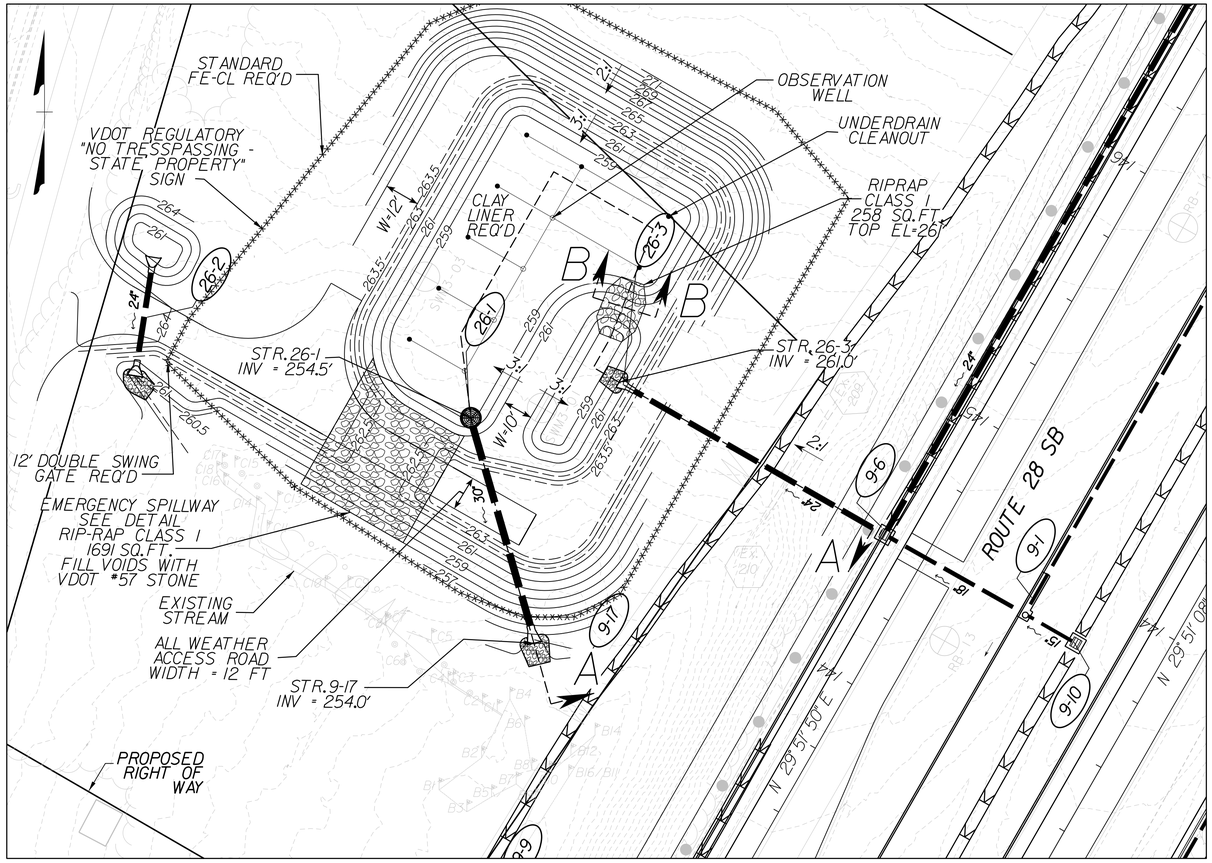
SWM 3 BIORETENTION LEVEL I

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	2B(3)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
HYDRAULIC ENGINEER

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



NOTES:

1. WHEN INSTALLING THE STEPS AND TRASH RACK TO THE CONTROL STRUCTURE, THE CONTRACTOR SHALL ENSURE THAT THE STEPS AND TRASH RACK ACCESS DOOR ARE ORIENTED TO THE EMBANKMENT SIDE OF THE CONTROL STRUCTURE, AND TO THE EXTENT POSSIBLE, ARE IN DIRECT ALIGNMENT WITH EACH OTHER.
2. STEPS ARE TO BE INSTALLED ON THE INSIDE OF THE WATER QUALITY STRUCTURE AND ACCESSIBLE FROM THE EMBANKMENT SIDE ON THE OUTSIDE OF THE STRUCTURE.
3. A HINGED, LOCKABLE ACCESS DOOR WITH A MINIMUM 2'X2' CLEAR OPENING, SHALL BE PROVIDED ON ALL TRASH RACKS AND ALIGNED DIRECTLY OVER THE STEPS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PROPOSED BMP'S ONCE ALL CONNECTIONS HAVE BEEN COMPLETED, AND SHALL CERTIFY THAT THE BMP'S HAVE BEEN MAINTAINED PER MANUFACTURER'S MAINTENANCE GUIDELINES OR IN ACCORDANCE WITH THE TYPICAL INDUSTRY MAINTENANCE STANDARDS. THE BMPS WILL ULTIMATELY BE OWNED AND MAINTAINED BY VDOT ONCE THE FACILITY IS ACCEPTED OR THE PROJECT IS COMPLETE, WHICHEVER OCCURS FIRST.
5. REMOVE ALL EXISTING TREES WITHIN 15 FEET OF THE EMBANKMENT AND 25 FEET OF THE OUTLET STRUCTURE.
6. INSTALL A METERED ROD IN THE SEDIMENT FOREBAY.
7. THE CONTRACTOR SHALL INSTALL A CLAY LINER MEETING THE REQUIREMENTS PER VA BMP CLEARINGHOUSE SPECIFICATION #14, TABLE 14.4 CLAY LINER SPECIFICATIONS.
8. WHEN THE BMP IS ACCEPTED, VDOT SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE STORMWATER FACILITY. MAINTENANCE RESPONSIBILITIES SHALL BE ESTABLISHED IN THE REQUIRED DEED OF DEDICATION.

AS-BUILT DRAWING OF STORMWATER MANAGEMENT FACILITIES:

THE CONTRACTOR SHALL PROVIDE 'AS-BUILT' DRAWINGS OF ALL STORMWATER MANAGEMENT FACILITIES LOCATED ON THE SHEET. THE 'AS-BUILT' DRAWINGS SHALL SHOW THE ACTUAL FINISHED GROUND CONTOURS, OUTLET STRUCTURE DIMENSIONS AND ELEVATIONS, ETC. AS THEY EXIST AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF VIRGINIA.

SWM 3

THIS WATER QUALITY FACILITY TREATS 4.25 ACRES AND ACHIEVES A TOTAL PHOSPHORUS LOAD REDUCTION OF 2.86 LB/YR

SWM 3 Treatment Requirements

BMP Type:	Bioretention	
Level:	1	
Proposed Treatment Area:	4.25	acres
Impervious:	1.84	acres
Managed Turf 'A' Soil:	0.00	acres
Managed Turf 'B' Soil:	0.00	acres
Managed Turf 'D' Soil:	2.14	acres
Forested 'B' Soil:	0.00	acres
Forested 'D' Soil:	0.27	acres
Weighted Rv:	0.54	
Required Tv:	0.19	ac-ft
Required Tv:	8287	cu. ft
Volume From Upstream:	0	cu. ft
Total Tv:	8287	cu. ft
Pre- Treatment Cells:		
Required Volume:	1243	cu. Ft
Provided Volume:	1384	cu. ft

Provided Tv. 9406 *cu.ft
* Taken from stage-storage at 0.5 foot ponding depth

POST - CONDITIONS DISCHARGES

2 YEAR = 0.9 CFS
10 YEAR = 11.9 CFS
100 YEAR = 29.8 CFS

POST - CONDITIONS WATER SURFACE (WS) ELEVATIONS

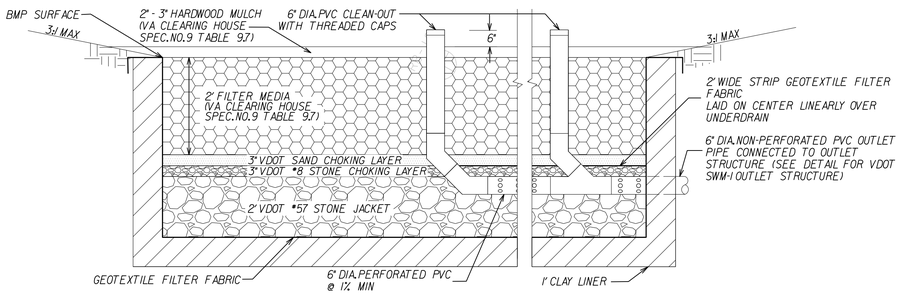
2 YEAR WS ELEV. = 261.5 FT
10 YEAR WS ELEV. = 261.9 FT
100 YEAR WS ELEV = 262.4 FT

TREATMENT VOLUME PROVIDED = 0.22 ACRE-FT
TREATMENT VOLUME ELEVATION = 260.0 FT

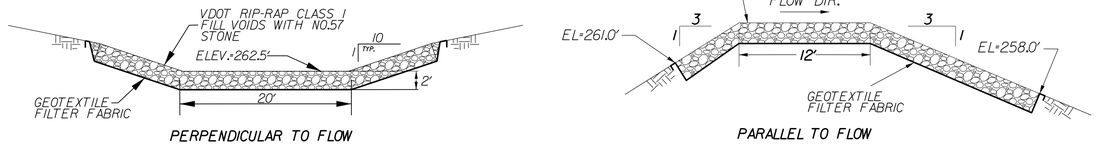
SUMMARY TABLE:

SCALE 0 25' 50'

SWM	BIORETENTION FILTER								PRE-TREATMENT METHOD	UNDERDRAIN					OUTLET STRUCTURE		
	DRAINAGE AREA (AC)	IMPERVIOUS AREA (AC)	SURFACE AREA (SF)	SURFACE ELEV. (FT)	TOP OF DAM (FT)	DESIGN 10-YR WSE (FT)	DESIGN 100-YR WSE (FT)	FREEBOARD (100-YR) (FT)		WATER TABLE ELEV. (FT)	UPPER INV. (FT)	OUTLET INV. (FT)	6" PIPE QUANTITY (LF)	NO. OF CLEANOUTS/ OBS. WELLS	STRUCTURE TYPE	TOP OF STR. (FT)	INV. (OUT) (FT)
3	5.99	1.84	6626.0	259.0	263.5	261.9	262.4	1.1	PRE-TREATMENT CELL	NOT ENCOUNTERED	256.3	254.5	270	8/4	RISER STRUCTURE	261.50'	254.5



BIORETENTION - LEVEL I DETAIL
N.T.S.



EMERGENCY SPILLWAY DETAIL
N.T.S.

PROJECT	SHEET NO.
0028-029-269	2B(3)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

STORMWATER MANAGEMENT

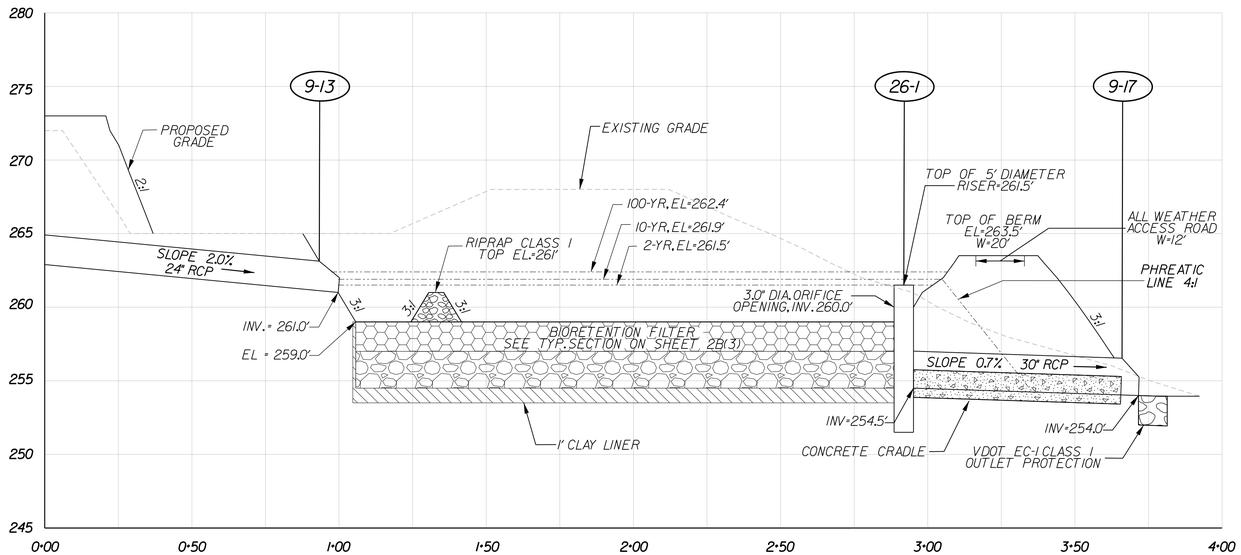
SWM 3 BIORETENTION LEVEL I

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
.	VA.	28	0028-029-269 P101 R201 C501	2B(4)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
HYDRAULIC ENGINEER

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

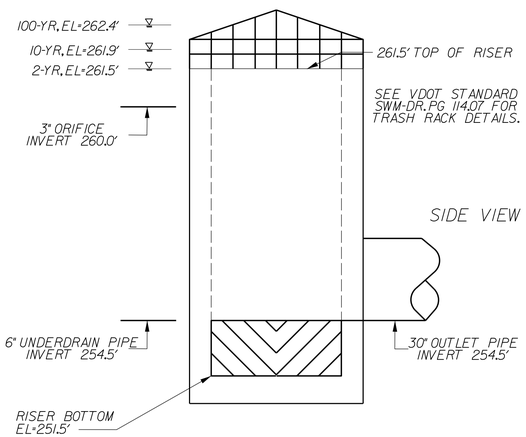


SECTION A-A
SWM 3 BIORETENTION LEVEL I

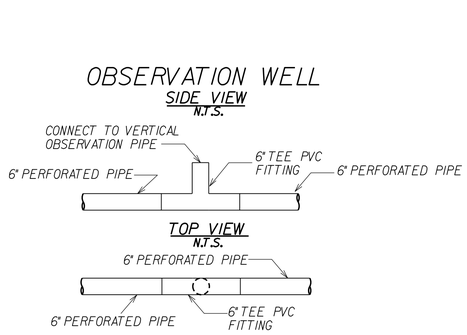
HORIZONTAL 1"=25'
VERTICAL 1"=5'

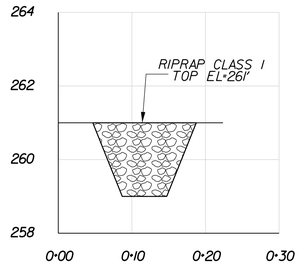
BIORETENTION LEVEL I DESIGN COMPLIANCE

TV_{req} = (1.0 * Rv * (A/12)) * ANY REMAINING VOLUME FROM UPSTREAM BMP	REQUIRED	TV = (1.0 * 0.54 * (4.25/12)) * 43560 FT/AC = 8287 CU.FT.
	PROVIDED	9406.3 CU.FT AT EL.= 260.0 FT
MAX. DRAINAGE AREA = 2.5 AC (5 WITH APPROVAL)	DA = 4.25 AC IMPERVIOS = 1.84 AC	
MAX. PONDING DEPTH = 6" TO 12"	12"	
FILTER MEDIA DEPTH = 24" TO 48"	24"	
LENGTH OF SHORTEST FLOW PATH / OVERALL LENGTH = 0.3 OR MORE	SHORTEST PATH (107') / OVERALL (107') = 1.00	
CONVEYANCE AND OVERFLOW	ON-LINE	



RISER STRUCTURE 26-1
(SWM 3) (NTS)





SECTION B-B
SWM 3 BIORETENTION LEVEL I

HORIZONTAL 1"=10'
VERTICAL 1"=2'

STAGE-STORAGE RELATIONSHIP SWM 3

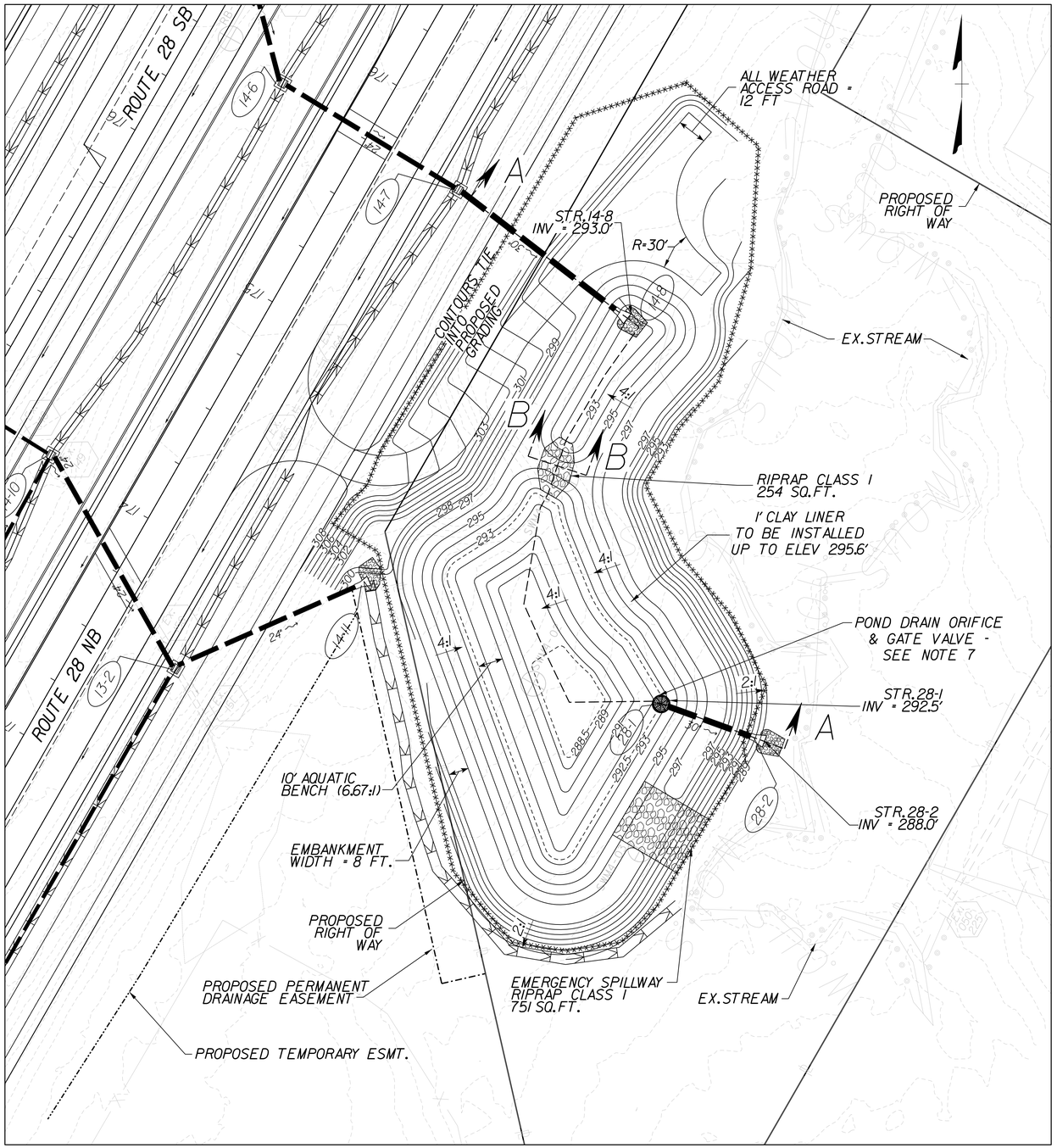
Elevation (ft)	Discharge (cfs)	Storage (cu.ft)	Storage (ac ft)
256.50	0.00	0	0.000
256.75	0.06	497	0.011
257.00	0.12	870	0.020
259.00	0.20	3443	0.079
260.00	0.20	9406	0.216
261.00	0.20	16728	0.384
261.50	0.20	21217	0.487
262.00	16.86	25705	0.590
263.50	66.64	41927	0.963

PROJECT	SHEET NO.
0028-029-269	2B(4)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

STORMWATER MANAGEMENT

SWM 4 WET POND LEVEL 1



REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	2B(5)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
HYDRAULIC ENGINEER

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

NOTES:

1. WHEN INSTALLING THE STEPS AND TRASH RACK TO THE CONTROL STRUCTURE, THE CONTRACTOR SHALL ENSURE THAT THE STEPS AND TRASH RACK ACCESS DOOR ARE ORIENTED TO THE EMBANKMENT SIDE OF THE CONTROL STRUCTURE, AND TO THE EXTENT POSSIBLE, ARE IN DIRECT ALIGNMENT WITH EACH OTHER.
2. STEPS ARE TO BE INSTALLED ON THE INSIDE OF THE WATER QUALITY STRUCTURE AND ACCESSIBLE FROM THE EMBANKMENT SIDE ON THE OUTSIDE OF THE STRUCTURE.
3. A HINGED, LOCKABLE ACCESS DOOR WITH A MINIMUM 2'X2' CLEAR OPENING, SHALL BE PROVIDED ON ALL TRASH RACKS AND ALIGNED DIRECTLY OVER THE STEPS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PROPOSED BMP'S ONCE ALL CONNECTIONS HAVE BEEN COMPLETED, AND SHALL CERTIFY THAT THE BMP'S HAVE BEEN MAINTAINED PER MANUFACTURER'S MAINTENANCE GUIDELINES OR IN ACCORDANCE WITH THE TYPICAL INDUSTRY MAINTENANCE STANDARDS. THE BMPS WILL ULTIMATELY BE OWNED AND MAINTAINED BY VDOT ONCE THE FACILITY IS ACCEPTED OR THE PROJECT IS COMPLETE, WHICHEVER OCCURS FIRST.
5. REMOVE ALL EXISTING TREES WITHIN 15 FEET OF THE EMBANKMENT AND 25 FEET OF THE OUTLET STRUCTURE.
6. INSTALL A METERED ROD IN THE SEDIMENT FOREBAY.
7. GATE VALVE TO BE OF INDUSTRIAL GRADE METAL, COMPLETE WITH APPROPRIATE STEM EXTENSION AND GATE WHEEL. GATE VALVE TO BE CHOSEN BY CONTRACTOR AND APPROVED BY VDOT.
8. THE CONTRACTOR SHALL INSTALL A CLAY LINER MEETING THE REQUIREMENTS PER VA BMP CLEARINGHOUSE SPECIFICATION #14, TABLE 14.4 CLAY LINER SPECIFICATIONS.
9. WHEN THE BMP IS ACCEPTED, VDOT SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE STORMWATER FACILITY. MAINTENANCE RESPONSIBILITIES SHALL BE ESTABLISHED IN THE REQUIRED DEED OF DEDICATION.

AS-BUILT DRAWING OF STORMWATER MANAGEMENT FACILITIES:

THE CONTRACTOR SHALL PROVIDE 'AS-BUILT' DRAWINGS OF ALL STORMWATER MANAGEMENT FACILITIES LOCATED ON THE SHEET. THE 'AS-BUILT' DRAWINGS SHALL SHOW THE ACTUAL FINISHED GROUND CONTOURS, OUTLET STRUCTURE DIMENSIONS AND ELEVATIONS, ETC. AS THEY EXIST AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF VIRGINIA.

SWM 4

THIS WATER QUALITY FACILITY TREATS 4.84 ACRES AND ACHIEVES A TOTAL PHOSPHORUS LOAD REDUCTION OF 3.42 LB/YR

SWM 4 Treatment Requirements

BMP Type:	Wet Pond	
Level:	1	
Treated Drainage Area:	4.84	acres
Impervious:	2.56	acres *
Managed Turf:	2.28	acres
Wooded:	0.00	acres
Weighted Rv:	0.62	
Required Tv:	0.25	ac-ft
Required Tv:	10897	cu. ft **
Required Tv Elevation:	292.21	ft
Elev Tv Provided:	**292.50**	**ft**
Tv Provided:	**12758**	**cu.ft**

*0.49 acres of impervious land cover removed from treatment requirement because of DS pond ID # 1141DP.

**Required Tv reflects reduction in impervious cover.

POST - CONDITIONS DISCHARGES

2 YEAR = 1.4 CFS
10 YEAR = 15.5 CFS
100 YEAR = 40.6 CFS

POST - CONDITIONS WATER SURFACE (WS) ELEVATIONS

2 YEAR WS ELEV. = 295.2 FT
10 YEAR WS ELEV. = 295.6 FT
100 YEAR WS ELEV = 296.0 FT

TREATMENT VOLUME PROVIDED = 0.29 ACRE-FT
TREATMENT VOLUME ELEVATION = 292.5 FT

SUMMARY TABLE:

SWM	WET POND									OUTLET STRUCTURE	
	DRAINAGE AREA (AC)	PERMANENT POOL AREA (SF)	PERMANENT POOL ELEV. (FT)	TOP OF DAM (FT)	DESIGN 10-YR WSE (FT)	DESIGN 100-YR WSE (FT)	FREEBOARD (100-YR) (FT)	PRE-TREATMENT METHOD	WATER TABLE ELEV. (FT)	STRUCTURE TYPE	TOP OF STR. (FT)
4	7.47	6,492	292.5	297.0	295.6	296.0	1.0	FOREBAY	NOT ENCOUNTERED	SWM-1	295.2

SCALE
0 25' 50'

	PROJECT	SHEET NO.
	0028-029-269	2B(5)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

STORMWATER MANAGEMENT

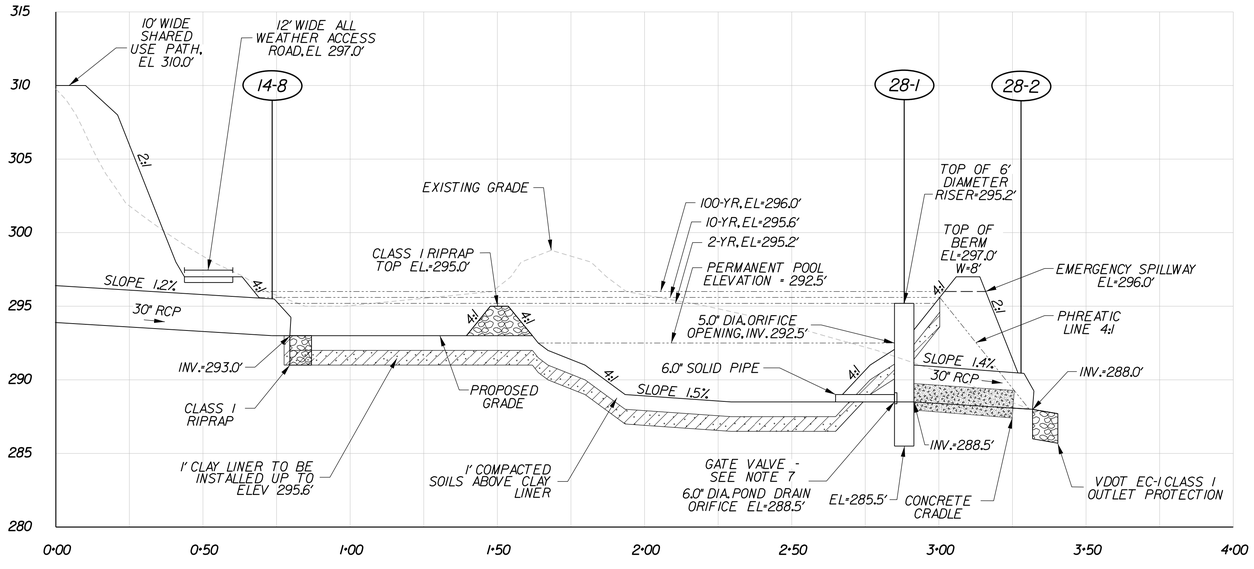
SWM 4 WET POND LEVEL I

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	2B(6)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
HYDRAULIC ENGINEER

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



SECTION A-A

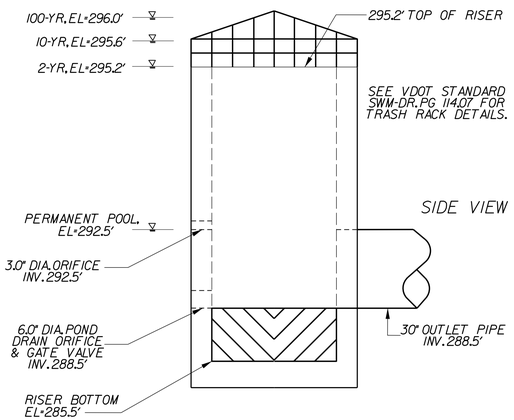
SWM 4 WET POND LEVEL I

WET POND LEVEL I DESIGN COMPLIANCE

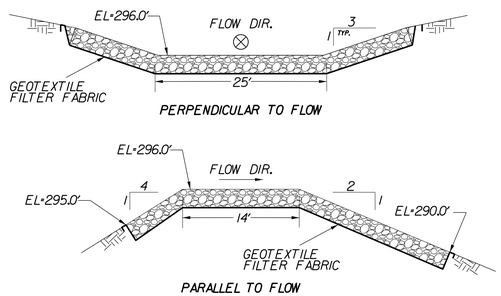
TVBMP = (1.0 * Rv * (A/12)) - ANY REMAINING VOLUME FROM UPSTREAM BMP	REQUIRED	10897 CU.FT.
	PROVIDED	12758 CU.FT AT EL.= 292.5 FT
SINGLE POND CELL (WITH FOREBAY)	PROVIDED	
LENGTH/WIDTH RATIO OR FLOW PATH = 2:1 OR MORE; LENGTH OF SHORTEST FLOW PATH / OVERALL LENGTH = 0.5 OR MORE	LENGTH (204') / WIDTH (96') = 2.1	
	SHORTEST PATH (204') / OVERALL (204') = 1.00	
STANDARD AQUATIC BENCHES	PROVIDED	
TURF IN POND BUFFERS	PROVIDED	
NO INTERNAL POND MECHANISMS	CONDITION MET	

STAGE-STORAGE-DISCHARGE RELATIONSHIP (ABOVE WET POOL ONLY) SWM 4

Elevation (ft)	Discharge (cfs)	Storage (cu.ft)	Storage (ac.ft)
292.5	0.0	0.0	0.00
293.0	0.1	3232.0	0.07
294.0	0.3	11887.2	0.27
295.0	0.4	22720.2	0.52
296.0	34.2	35979.3	0.83
297.0	139.4	51752.6	1.19

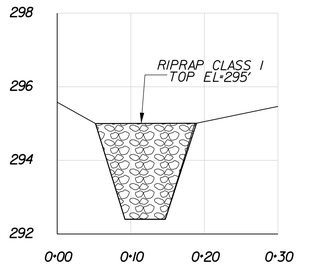


RISER STRUCTURE 28-I (SWM 4) (NTS)



EMERGENCY SPILLWAY DETAIL

N.T.S.



SECTION B-B

SWM 4 WET POND LEVEL I

HORIZONTAL 1"=10'
VERTICAL 1"=2'

STAGE-STORAGE RELATIONSHIP (INCLUDING WET POOL) SWM 4

Stage - Storage Relationship for SWM Basin			
Elevation (ft)	Storage (Cu Ft)	Storage (Ac-Ft)	Area (Sf)
288.50	**0**	0.000	0.016
289.00	**534**	0.012	0.034
290.00	**2414**	0.055	0.053
291.00	**5224**	0.120	0.076
292.00	**9526**	0.219	0.123
293.00	**15990**	0.367	0.175
294.00	**24645**	0.566	0.223
295.00	**35478**	0.814	0.275
296.00	**48737**	1.119	0.334
297.00	**64511**	1.481	0.390

PROJECT	SHEET NO.
0028-029-269	2B(6)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

STORMWATER MANAGEMENT

SWM 9 UNDERGROUND SAND FILTER

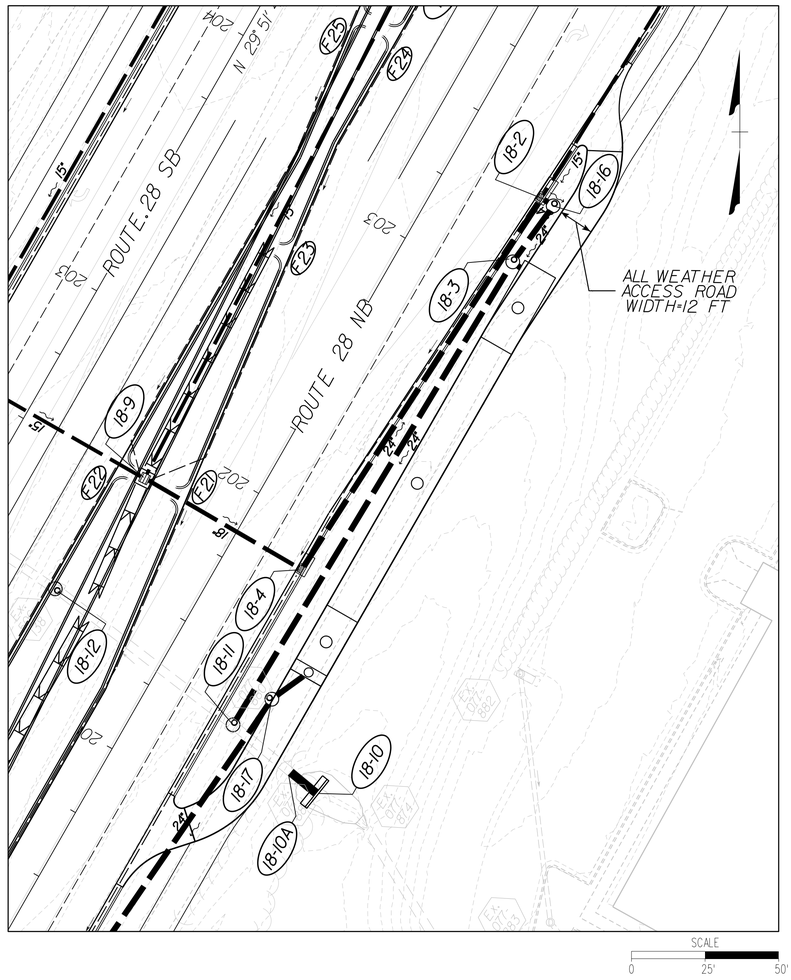
12' x 7' BOX CULVERT, 160' LONG

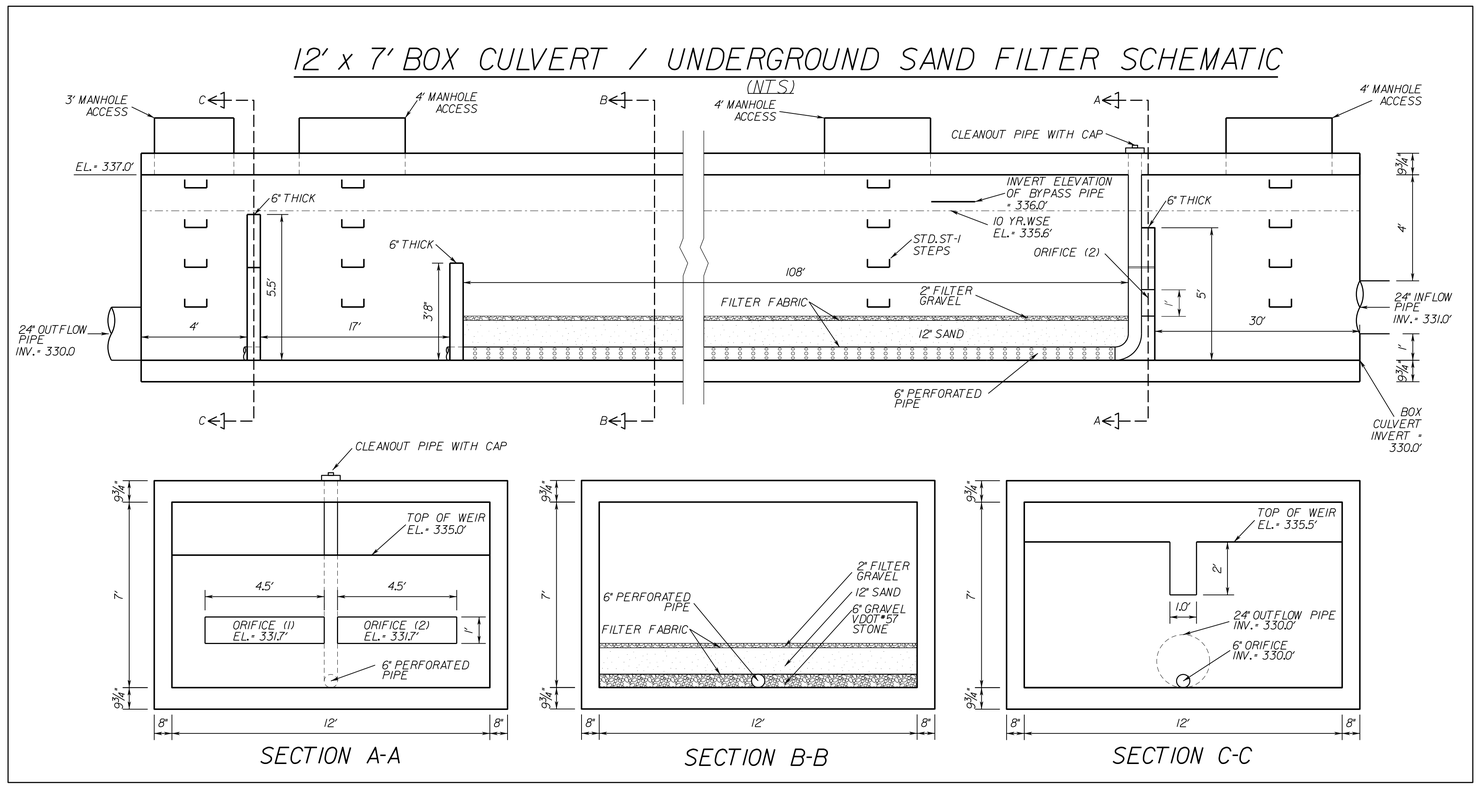
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	2B(7)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
HYDRAULIC ENGINEER

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS





NOTES:

1. STEPS ARE TO BE INSTALLED ON THE INSIDE OF THE WATER QUALITY STRUCTURE AND ACCESSIBLE FROM THE MANHOLE ON THE TOP OF THE STRUCTURE.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PROPOSED BMP'S ONCE ALL CONNECTIONS HAVE BEEN COMPLETED, AND SHALL CERTIFY THAT THE BMP'S HAVE BEEN MAINTAINED PER MANUFACTURER'S MAINTENANCE GUIDELINES OR IN ACCORDANCE WITH THE TYPICAL INDUSTRY MAINTENANCE STANDARDS. THE BMP'S WILL ULTIMATELY BE OWNED AND MAINTAINED BY FAIRFAX COUNTY ONCE THE FACILITY IS ACCEPTED OR THE PROJECT IS COMPLETE, WHICHEVER OCCURS FIRST.

3. WHEN THE BMP IS ACCEPTED, FAIRFAX COUNTY SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE STORMWATER FACILITY. MAINTENANCE RESPONSIBILITIES SHALL BE ESTABLISHED IN THE REQUIRED DEED OF DEDICATION.

AS-BUILT DRAWING OF STORMWATER MANAGEMENT FACILITIES:

THE CONTRACTOR SHALL PROVIDE 'AS-BUILT' DRAWINGS OF ALL STORMWATER MANAGEMENT FACILITIES LOCATED ON THE SHEET. THE 'AS-BUILT' DRAWINGS SHALL SHOW THE ACTUAL FINISHED GROUND CONTOURS, OUTLET STRUCTURE DIMENSIONS AND ELEVATIONS, ETC. AS THEY EXIST AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF VIRGINIA.

SWM 9

THIS WATER QUALITY FACILITY TREATS 1.5 ACRES AND ACHIEVES A TOTAL PHOSPHORUS LOAD REDUCTION OF 1.95 LB/YR

SWM 9 Treatment Requirements

BMP Type:	Underground Sand Filter	
Level:	1	
Proposed Drainage Area:	1.50	acres
Impervious:	1.50	acres
Managed Turf:	0.00	acres
Wooded:	0.00	acres
Weighted Rv:	0.95	
Required Tv:	0.12	ac-ft
Required Tv:	5173	cu. ft
Required Tv Storage	**3879.75**	**cu.ft**
Provided Tv Storage	**4392.00**	**cu.ft**

*Required Treatment Volume Storage (V_w) = 0.75(T_v)

POST - CONDITIONS DISCHARGES

2 YEAR = 6.9 CFS
10 YEAR = 13.0 CFS

POST - CONDITIONS WATER SURFACE (WS) ELEVATIONS

2 YEAR WS ELEV.= 334.9 FT
10 YEAR WS ELEV.= 335.6 FT

TREATMENT VOLUME STORAGE PROVIDED = 0.10 ACRE-FT
SURFACE AREA PROVIDED = 1296 SQ FT

	PROJECT	SHEET NO.
	0028-029-269	2B(7)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

STORMWATER MANAGEMENT

SWM 10 UNDERGROUND DETENTION FACILITY

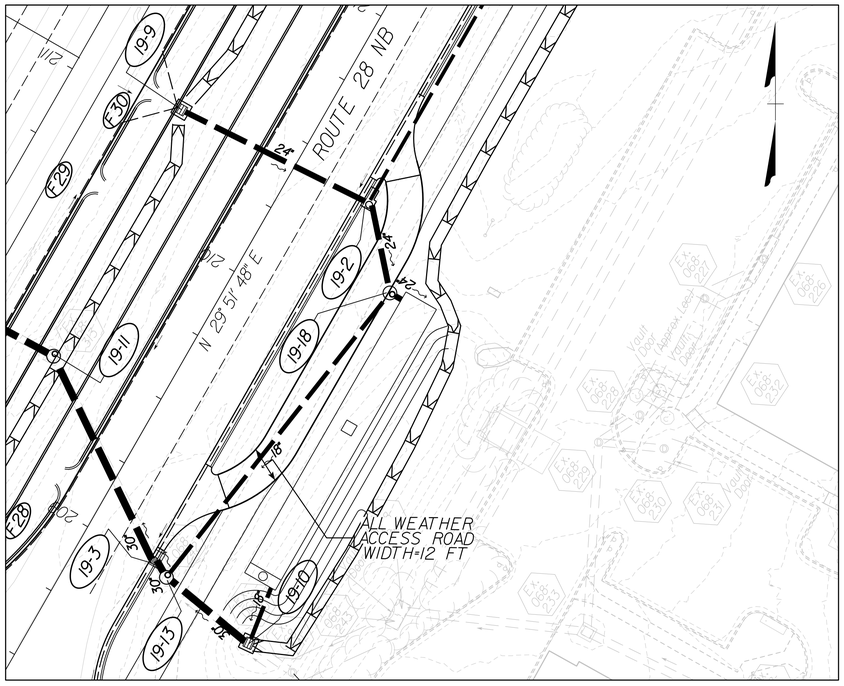
12' x 6' BOX CULVERT, 110' LONG

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	2B(8)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
HYDRAULIC ENGINEER

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



NOTES:

1. STEPS ARE TO BE INSTALLED ON THE INSIDE OF THE WATER QUALITY STRUCTURE AND ACCESSIBLE FROM THE MANHOLE ON THE TOP OF THE STRUCTURE.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PROPOSED BMP'S ONCE ALL CONNECTIONS HAVE BEEN COMPLETED, AND SHALL CERTIFY THAT THE BMP'S HAVE BEEN MAINTAINED PER MANUFACTURER'S MAINTENANCE GUIDELINES OR IN ACCORDANCE WITH THE TYPICAL INDUSTRY MAINTENANCE STANDARDS. THE BMPS WILL ULTIMATELY BE OWNED AND MAINTAINED BY FAIRFAX COUNTY ONCE THE FACILITY IS ACCEPTED OR THE PROJECT IS COMPLETE, WHICHEVER OCCURS FIRST.

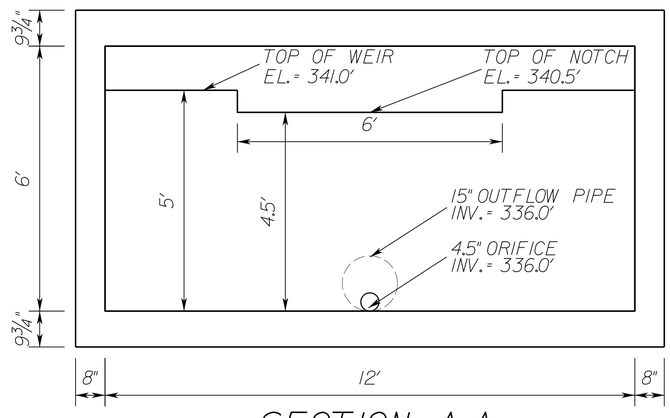
3. WHEN THE BMP IS ACCEPTED, FAIRFAX COUNTY SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE STORMWATER FACILITY. MAINTENANCE RESPONSIBILITIES SHALL BE ESTABLISHED IN THE REQUIRED DEED OF DEDICATION.

AS-BUILT DRAWING OF STORMWATER MANAGEMENT FACILITIES:

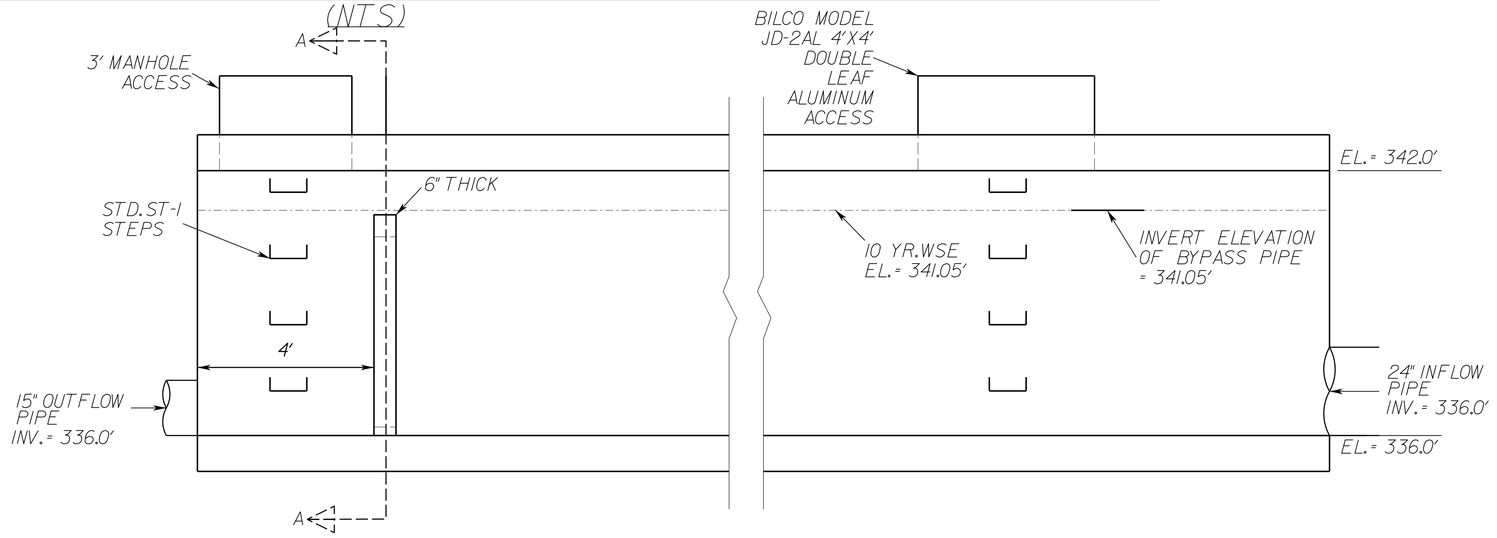
THE CONTRACTOR SHALL PROVIDE 'AS-BUILT' DRAWINGS OF ALL STORMWATER MANAGEMENT FACILITIES LOCATED ON THE SHEET. THE 'AS-BUILT' DRAWINGS SHALL SHOW THE ACTUAL FINISHED GROUND CONTOURS, OUTLET STRUCTURE DIMENSIONS AND ELEVATIONS, ETC. AS THEY EXIST AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF VIRGINIA.

12' x 6' BOX CULVERT / UNDERGROUND DETENTION SCHEMATIC

(NTS)



SECTION A-A



	PROJECT	SHEET NO.
	0028-029-269	2B(8)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

STORMWATER MANAGEMENT

SWM II UNDERGROUND DETENTION FACILITY

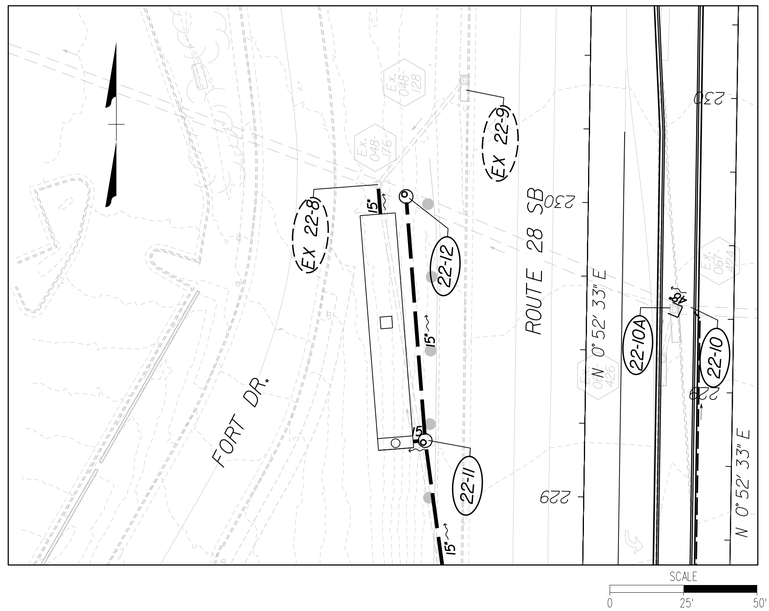
12' X 7' BOX CULVERT, 80' LONG

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
.	VA.	28	0028-029-269 P101 R201 C501	2B(9)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
HYDRAULIC ENGINEER

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



NOTES:

1. STEPS ARE TO BE INSTALLED ON THE INSIDE OF THE WATER QUALITY STRUCTURE AND ACCESSIBLE FROM THE MANHOLE ON THE TOP OF THE STRUCTURE.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PROPOSED BMP'S ONCE ALL CONNECTIONS HAVE BEEN COMPLETED, AND SHALL CERTIFY THAT THE BMP'S HAVE BEEN MAINTAINED PER MANUFACTURER'S MAINTENANCE GUIDELINES OR IN ACCORDANCE WITH THE TYPICAL INDUSTRY MAINTENANCE STANDARDS. THE BMPS WILL ULTIMATELY BE OWNED AND MAINTAINED BY FAIRFAX COUNTY ONCE THE FACILITY IS ACCEPTED OR THE PROJECT IS COMPLETE, WHICHEVER OCCURS FIRST.

3. WHEN THE BMP IS ACCEPTED, FAIRFAX COUNTY SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE STORMWATER FACILITY. MAINTENANCE RESPONSIBILITIES SHALL BE ESTABLISHED IN THE REQUIRED DEED OF DEDICATION.

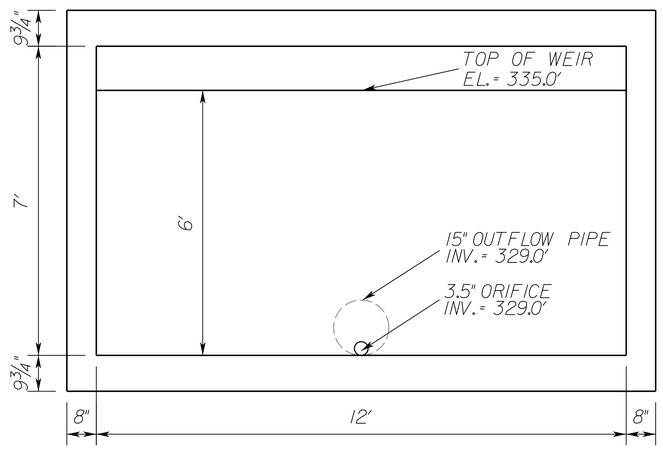
AS-BUILT DRAWING OF STORMWATER MANAGEMENT FACILITIES:

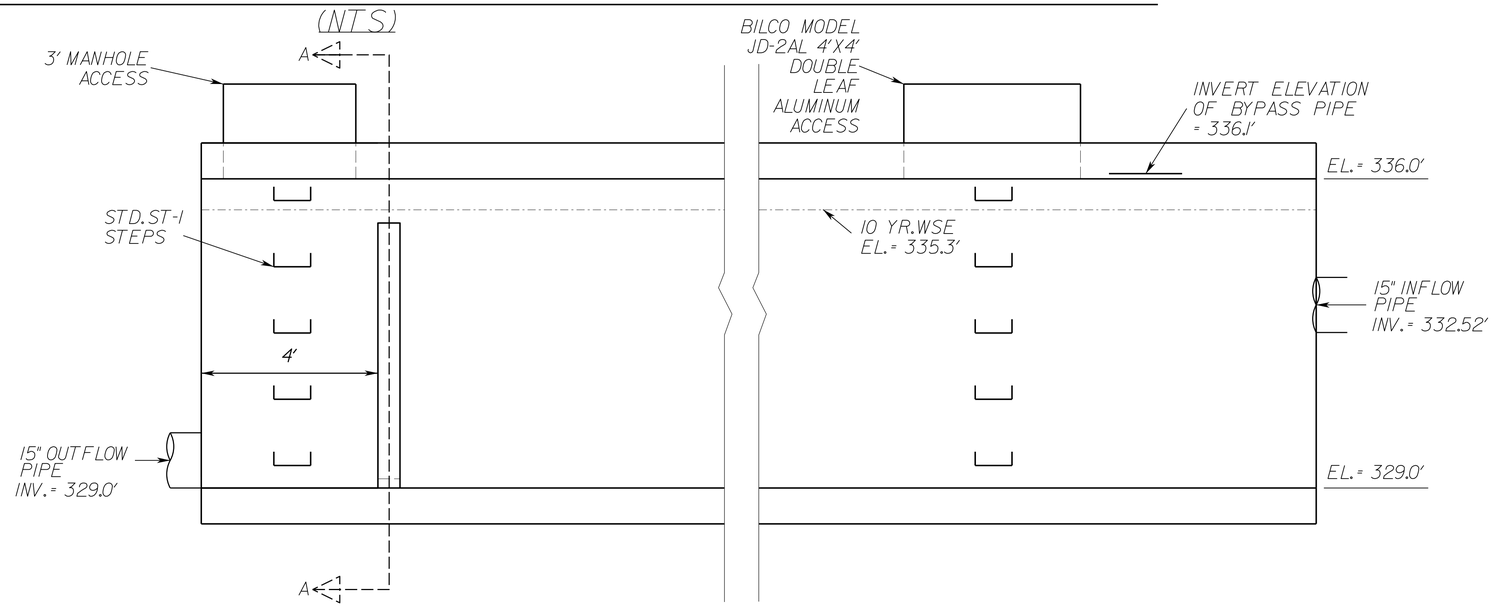
THE CONTRACTOR SHALL PROVIDE 'AS-BUILT' DRAWINGS OF ALL STORMWATER MANAGEMENT FACILITIES LOCATED ON THE SHEET. THE 'AS-BUILT' DRAWINGS SHALL SHOW THE ACTUAL FINISHED GROUND CONTOURS, OUTLET STRUCTURE DIMENSIONS AND ELEVATIONS, ETC. AS THEY EXIST AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF VIRGINIA.

12' x 7' BOX CULVERT / UNDERGROUND DETENTION SCHEMATIC

(NTS)

SECTION A-A





	PROJECT	SHEET NO.
	0028-029-269	2B(9)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

STORMWATER MANAGEMENT

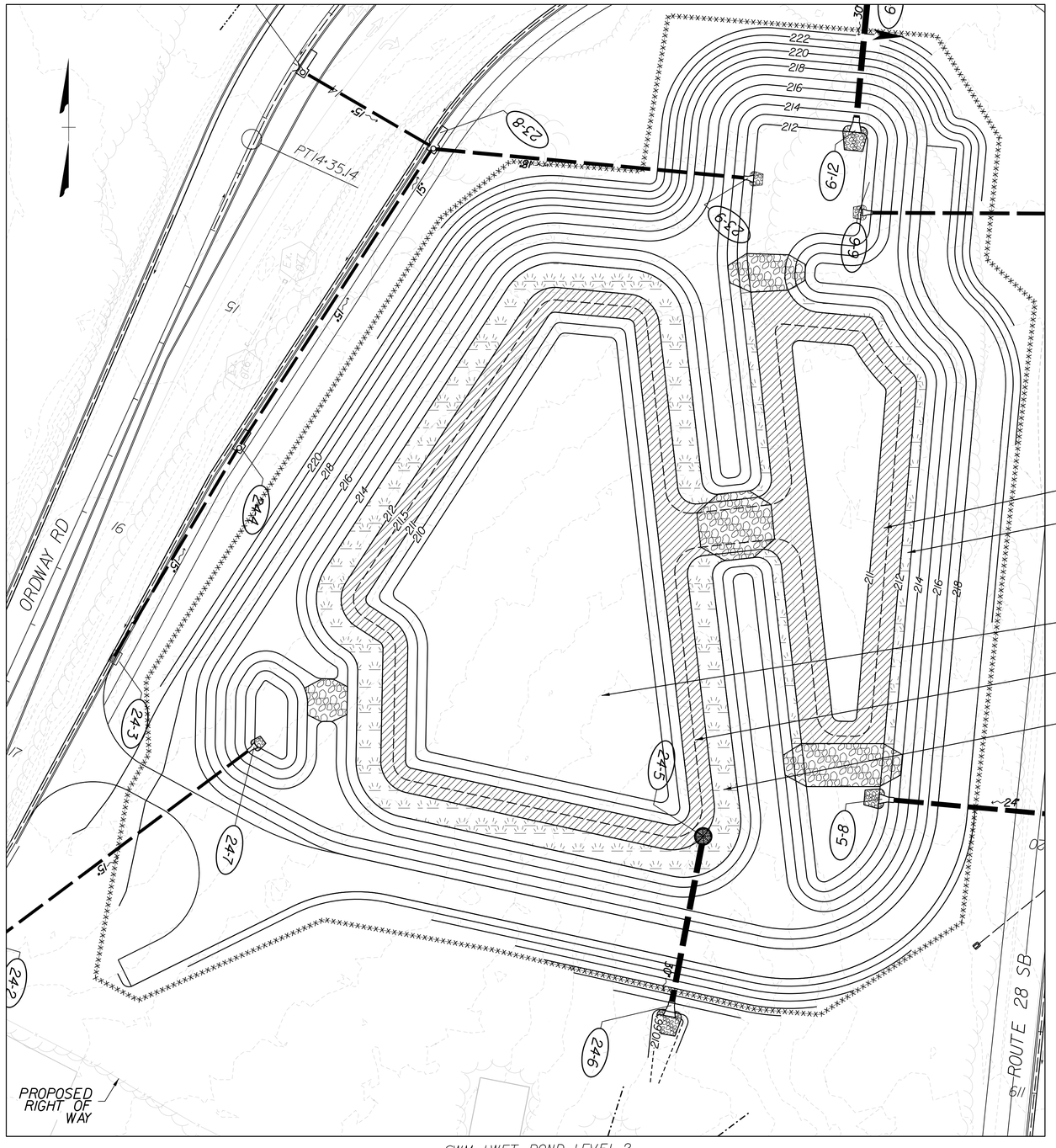
SWM 1 PLANTING SPECIFICATIONS AND DETAILS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	2B(10)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
HYDRAULIC ENGINEER

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



SWM 1 WET POND LEVEL 2
PLAN VIEW

	PROJECT	SHEET NO.
	0028-029-269	2B(10)

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PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

STORMWATER MANAGEMENT

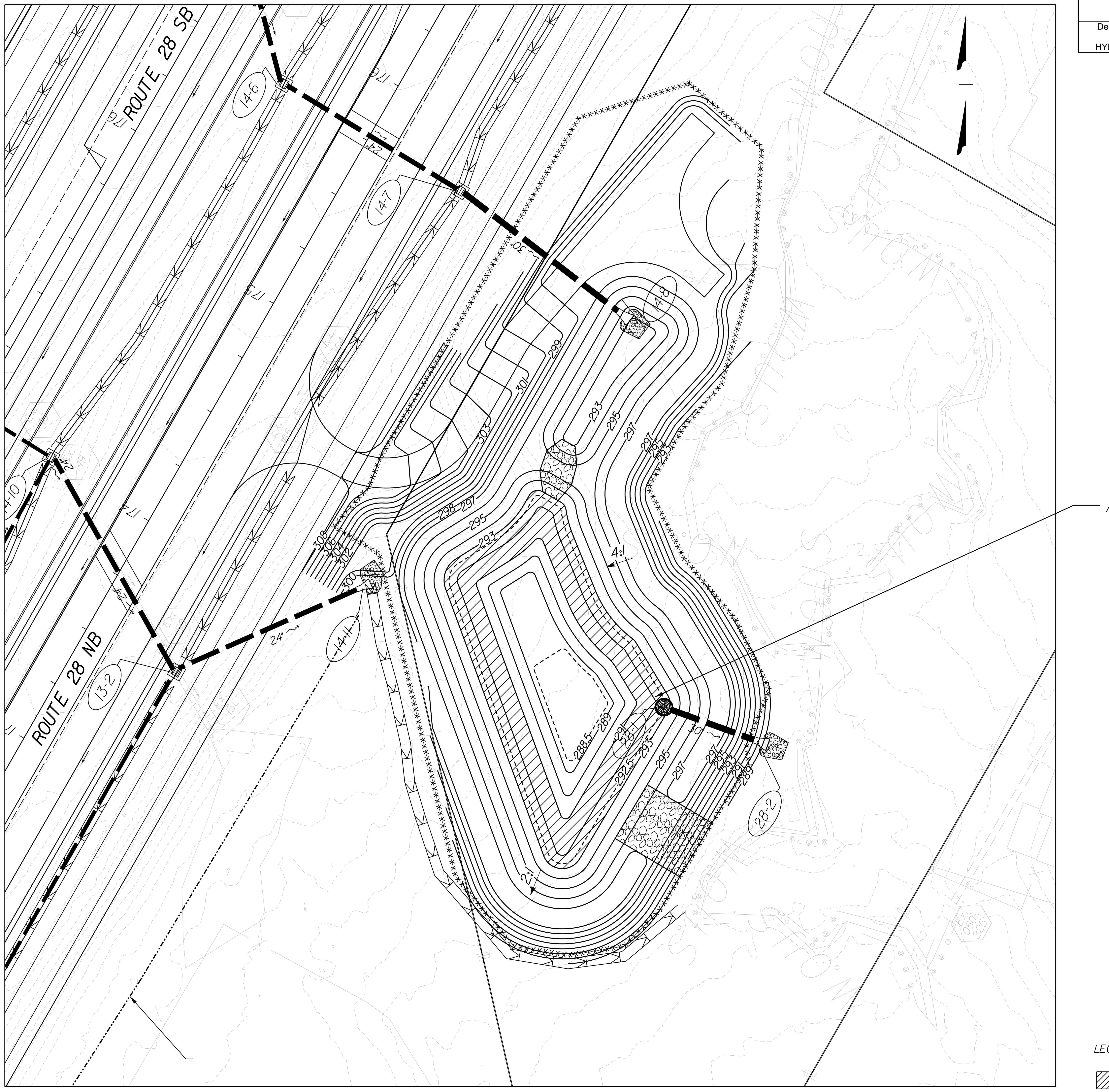
SWM 4 PLANTING SPECIFICATIONS AND DETAILS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
.	VA.	28	0028-029-269 P101 R201 C501	2B(II)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
HYDRAULIC ENGINEER

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



SWM 4 WET POND LEVEL I
PLAN VIEW

LEGEND

0-1.5' POOL DEPTH (AQUATIC BENCH - 3,206 SF)

SCALE
0 25' 50'

PROJECT	SHEET NO.
0028-029-269	2B(II)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

STORMWATER MANAGEMENT

SWM 1 AND 4 PLANTING SPECIFICATIONS AND DETAILS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	2B(12)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
HYDRAULIC ENGINEER

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

TABLE 1

SCIENTIFIC NAME	COMMON NAME
LOW-MARSH/AQUATIC BENCH SEED MIX: 40 LBS/AC REQUIRED	
PELTANDRA VIRGINICA	ARROW ARUM
PONTEDERIA CORDATA	PICKERELWEED
SAGGITARIA LATIFOLIA	BROAD-LEAF ARROWHEAD
SAURURUS CERNUS	LIZARD'S TAIL
CAREX LUPULINA	FOX SEDGE
SCHOENOPLECTUS TABERNAEMONTANI	SOFTSTEM BULRUSH
CAREX LURIDA	LURID (SHALLOW) SEDGE
HIBISCUS MOCHEUTOS	CRIMSONEYED ROSEMALLOW
SAGITTARIA LANCIFOLIA	BULLTONGUE ARROWHEAD
SPARGANIUM AMERICANUM	AMERICAN BUR-REED

TABLE 2

SCIENTIFIC NAME	COMMON NAME
HIGH-MARSH/WETLAND SHELF SEED MIX: 40 LBS/AC REQUIRED	
BIDENS FRONDOSA	DEVIL'S PITCHFORK (BEGGARTICKS)
CAREX LUPULIFORMIS	FALSE HOP SEDGE
CAREX ALBOLUTESCENS	GREEN-WHITE SEDGE
ELYMUS VIRGINICUS	VIRGINIA WILDRYE
PANICUM DICHOTOMIFLORUM	SMOOTH PANIC GRASS
POA PALUSTRIS	FOWL BLUE GRASS
JUNCUS EFFUSUS	SOFT RUSH
ANDROPOGON GLOMERATUS	BUSHY BLUESTEM
HELIUM AUTUMNALE	COMMON SNEEZEWEED
CAREX INTUMESCENS	GREATER BLADDER SEDGE

TABLE 3

POND SEEDING ZONE	WETLAND SEED MIX	SEEDING AREA (AC)	WETLAND SEED MIX APP. RATE (LBS/AC)	WETLAND SEED MIX REQUIRED (LBS)	ANNUAL RYE APPLICATION RATE (LBS/AC)	ANNUAL RYE REQUIRED (LBS)	TOTAL SEED APPLICATION (LBS)
SWM 1							
AQUATIC BENCH	SEE TABLE 1	0.26	40	10.4	50	13	23.4
WETLAND PERIMETER	SEE TABLE 2	0.19	40	7.6	50	9.5	17.1
SWM 4							
AQUATIC BENCH	SEE TABLE 1	0.09	40	3.6	50	4.45	8.05

SWM PLANTINGS AND PROCEDURES

I. DESCRIPTION

THIS WORK SHALL CONSIST OF PREPARATION AND PLANTING OF SWM 1 (WET POND) AS SHOWN ON SHEETS 2B(1) AND 2B(2), AND SWM 4 (WET POND) AS SHOWN ON SHEETS 2B(5) AND 2B(6) OF THE PLAN.

II. PROCEDURES

THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE PLUGS AND INSTALLATION AS DESCRIBED IN THE PROVISION AND AS SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING THEMSELVES AND REMAINING IN COMPLIANCE WITH PROJECT PLANS AND SPECIFICATIONS.

REFERENCED SECTION NUMBERS CORRESPOND WITH THE 2007 VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.

1. REMOVING UNSUITABLE MATERIAL - THE CONTRACTOR SHALL EXCAVATE THE PLANTING ZONES (AQUATIC BENCH, WETLAND PERIMETER) 0.5' (6 INCHES) BELOW THE FINAL GRADE. PLANTING ZONES SHALL BE BROUGHT TO FINAL GRADE WITH TOPSOIL. IN THE CASE OF OVER-EXCAVATION FOR THE INSTALLATION OF A CLAY LINER COVERED WITH 1' OF COMPACTED SOIL, THE TOPSOIL MAY BE UP TO 0.5' OF THIS 1' SOIL LAYER. THE TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED AND HAVE A MINIMUM COMPACTED DEPTH OF 0.5' (6 INCHES). EXCAVATION ACTIVITIES SHALL CONFORM TO THE REQUIREMENTS OF SECTION 303.04(E).

2. TOPSOIL - THE CONTRACTOR SHALL PLACE TOPSOIL TO A COMPACTED DEPTH OF 0.5' (6 INCHES) IN THE PLANTING ZONES SHOWN ON THIS SHEET. THE TOPSOIL SHALL MEET THE REQUIREMENTS OF CLASS A TOPSOIL IN ACCORDANCE WITH REQUIREMENTS OF SECTION 602 AND SECTION 244.02 (B)(2)&(3).

3. PH ADJUSTMENTS - IF THE PH OF THE TOPSOIL IS NOT BETWEEN 5.5 & 7.0, AFTER FINAL GRADING AND PRIOR TO SEEDING AND INSTALLATION OF EROSION CONTROL BLANKETS, LIME SHALL BE ADDED IN SUFFICIENT QUANTITIES TO BRING THE PH WITHIN THIS RANGE. LIME SHALL CONFORM TO THE REQUIREMENTS OF SECTION 244.0(E).

4. EROSION CONTROL BLANKETS: A NON-SYNTHETIC BIODEGRADABLE EROSION CONTROL BLANKET (NATURAL JUTE MESH, EC-2) SHALL BE INSTALLED ON THE AQUATIC BENCH PRIOR TO PLANTING ACTIVITIES AND SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 242.02 (K)(2) AND 606.

III. MATERIALS

A. NATURAL JUTE MESH (100% BIO-DEGRADABLE)

1. STANDARD EC-2 EROSION CONTROL BLANKETS OR EQUIVALENT HECP PRODUCT: COIR FIBER MATTING SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 244.02 (K)3 AS AMENDED TO EXCLUDE THE USE OF MAN-MADE FIBERS AND SHALL CONSIST ENTIRELY OF 100% NON-SYNTHETIC NATURAL BIODEGRADABLE COIR FIBER TWINE. EROSION CONTROL BLANKET SHALL BE FROM A VDOT APPROVED MANUFACTURER LISTED IN NUMBER (80) STANDARD EC-2 EROSION CONTROL BLANKETS - (MAINTENANCE DIVISION) OF THE VDOT APPROVED PRODUCT LIST OR EQUIVALENT AS APPROVED BY THE ENGINEER.

B. TOPSOIL: SECTION 244.02 (B)(2)(3):

1. CLASS A TOPSOIL SHALL BE TOPSOIL FURNISHED FROM SOURCES OUTSIDE THE PROJECT LIMITS AND SHALL BE THE ORIGINAL TOP LAYER OF A SOIL PROFILE FORMED UNDER NATURAL CONDITIONS, TECHNICALLY DEFINED AS THE "A" HORIZON OR AS DEFINED BY USDA-NRCS SOIL SURVEY DIVISION. IT SHALL CONSIST OF NATURAL, FRIABLE, LOAMY SOIL WITHOUT ADMIXTURES OF SUBSOIL OR OTHER FOREIGN MATERIALS AND SHALL BE FREE OF VIABLE NOXIOUS WEED SEED, PLANT PROPAGULES, BRUSH, ROCKS OR OTHER LITTER, AND ROCKS GREATER THAN 3 INCHES IN ANY DIMENSION. IT SHALL HAVE DEMONSTRATED BY EVIDENCE OF HEALTHY VEGETATION GROWING OR HAVING GROWN ON IT PRIOR TO STRIPPING THAT IT IS WELL DRAINED AND DOES NOT CONTAIN SUBSTANCES TOXIC TO PLANTS. THE CONTRACTOR SHALL SUBMIT A SOURCE OF MATERIALS FOR TOPSOIL ON THE PROJECT PRIOR TO USE. THE DEPARTMENT RESERVES THE RIGHT TO REJECT ANY TOPSOIL MATERIAL NOT COMPLYING WITH THE REQUIREMENTS OF THIS SPECIFICATION.

THE ALLOWABLE PH RANGE FOR CLASS A TOPSOIL FOR USE IN ESTABLISHING SOD OR TURF SHALL BE 5.5 TO 7.0.

CLASS A TOPSOIL SHALL BE A "SANDY LOAM," "LOAMY SAND," "LOAM," "SILT LOAM," OR "SANDY CLAY LOAM" SOIL AS DEFINED BY THE USDA SOIL TEXTURAL CLASSIFICATION SYSTEM WITH AN ORGANIC MATTER CONTENT BETWEEN 1 AND 8 PERCENT OR AS APPROVED IN WRITING BY THE ENGINEER.

2. THE CONTRACTOR SHALL SUBMIT THE FOLLOWING TEST REPORTS TO THE ENGINEER FOR CLASS A TOPSOIL PRIOR TO USE. TESTING SHALL BE COMPLETED BY AN INDEPENDENT COMMERCIAL SOILS TESTING LABORATORY FOR THE FOLLOWING:

A) SOIL ANALYSIS OF TOPSOIL INCLUDING PH FACTOR, MECHANICAL ANALYSIS (COMPOSITION), SALINITY, PERCENTAGE OF ORGANIC CONTENT, AND SOIL CLASSIFICATION BASED THEREON.

B) RECOMMENDATIONS ON TYPE AND QUANTITY OF ADDITIVES REQUIRED TO ESTABLISH A SATISFACTORY PH AND BRING THE SUPPLY OF NUTRIENTS TO A LEVEL SATISFACTORY FOR SUSTAINING TURF AND/OR FOR USE AS A SOIL MIX FOR PLANTING IF APPLICABLE.

SEEDING SPECIFICATIONS

IV. SEEDING

1. THE AQUATIC BENCH PLANTING ZONE SHALL BE SEEDED WITH THE SEED MIX SPECIFIED IN TABLE 1, AND THE WETLAND SHELF PERIMETER PLANTING ZONE SHALL BE SEEDED WITH THE SEED MIX SPECIFIED IN TABLE 2 OR EQUIVALENT AS APPROVED BY THE ENGINEER. BOTH SEED MIXES SHALL BE MIXED WITH ANNUAL RYE PRIOR TO SEED APPLICATION. SEE TABLE 3 FOR QUANTITIES OF SEED MIX REQUIRED. NONE OF THE SELECTED SPECIES LISTED IN TABLE 1 SHALL MAKE UP MORE THAN 1.56/0.54 LBS (15%) OF THE TOTAL 10.4/3.6 LBS OF WETLAND SEED MIX REQUIRED FOR THE SWM 1/SWM 4 BASIN AQUATIC BENCH. NONE OF THE SELECTED SPECIES LISTED IN TABLE 2 SHALL MAKE UP MORE THAN 1.14 LBS (15%) OF THE TOTAL 7.6 LBS OF THE WETLAND SEED MIX REQUIRED FOR THE SWM 1 BASIN WETLAND SHELF PERIMETER.

2. SEEDING SHALL BE APPLIED IMMEDIATELY FOLLOWING THE COMPLETION OF TOPSOIL BACK FILLING ACTIVITIES WHILE THE TOPSOIL STRUCTURE IS STILL FRIABLE.

3. SPECIES LISTED IN TABLE 1 OR 2 OF THIS SHEET SHALL NOT BE SUBSTITUTED WITHOUT APPROVAL FROM THE ENGINEERS.

4. THE SUPPLIER(S) OF ALL SEEDS AND VEGETATION SHALL CERTIFY THAT THE ORIGIN OF THE SEEDS AND VEGETATION FROM WHERE THEY ORIGINATED IS FROM USDA HARDINESS ZONE 7 EAST OF TENNESSEE.

5. SEED APPLIED USING A BROADCOAST SPREADER SHALL BE MIXED WITH FILLER SUCH AS SAND OR VERMICULITE TO ASSIST IN SPREADING THE SEED UNIFORMLY OVER THE AREA.

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
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STORMWATER MANAGEMENT

SWM 3 PLANTING SPECIFICATIONS AND DETAILS

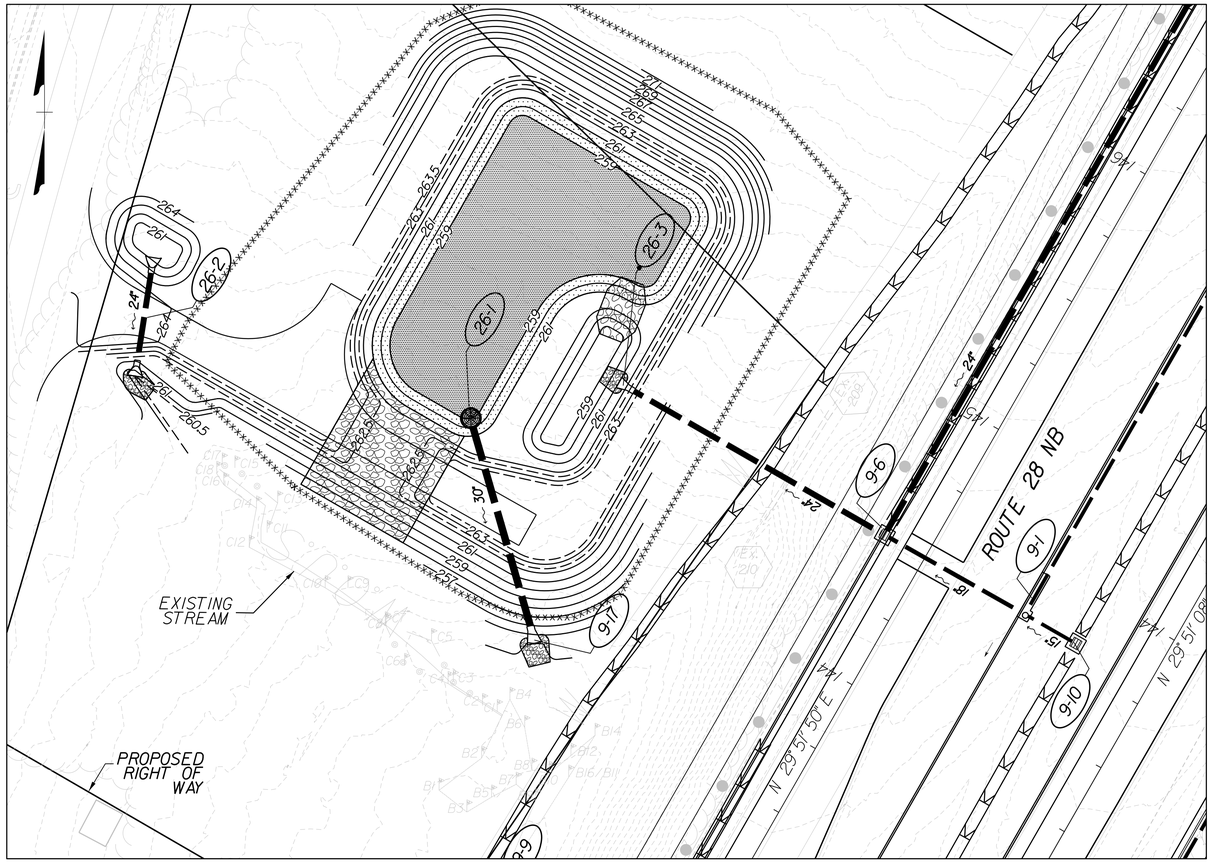
AND FILTER MEDIA SPECIFICATIONS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	2B(13)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
HYDRAULIC ENGINEER

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



SWM 3 BIORETENTION LEVEL I PLAN VIEW

HERBACEOUS COVER
GRASS FILTER STRIP

SWM POND SEEDING LOCATIONS

I. GENERAL

1. THIS WORK CONSISTS OF THE PREPARATION AND SEEDING SWM BIORETENTION 3 AS SHOWN ON PLAN SHEET 2B(3) AND 2B(4) OF THIS PLAN SET. THIS WORK SHALL BE DONE BY UTILIZING A HERBACEOUS MEADOW SEED MIX AS SPECIFIED ON THIS SHEET.

2. ALL REQUIRED SEEDING SHALL BE PERFORMED IN ACCORDANCE WITH THE 2016 VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS UNLESS OTHERWISE NOTED.

3. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE ALL THE LANDSCAPE WORK AS SHOWN ON THE PLAN AND SPECIFICATIONS.

4. SEQUENCE OF CONSTRUCTION SHALL COMPLY WITH VIRGINIA DEQ STORMWATER SPECIFICATION NO. 9.

II. PROCEDURES

1. NO PLANTING SHALL OCCUR WHEN THE SOIL IS FROZEN.

2. THE CONTRACTOR SHAL FURNISH ALL SEED LABEL TAGS FROM ALL SEED SACKS DELIVERED TO THE PROJECT SITE DENOTING SACK CONTENT INFORMATION TO THE ENGINEER FOR APPROVAL PRIOR TO SEED APPLICATION.

3. HERBACEOUS MEADOW SEED MIX SHALL BE APPLIED IN EARLY SPRING (APRIL 1 - JUNE 30TH).

4. AFTER APPLICATION OF THE SEED MIX AND EROSION CONTROL MATTING IN THE BIORETENTION AREA, PLACE SOD IN THE INLET CHANNELS AND SEED THE BASIN SIDE SLOPES WITH AN APPROVED TURF GRASS.

III. MATERIALS

1. BIORETENTIONS SHALL BE SEEDED WITH THE HERBACEOUS MEADOW SEED MIX SPECIFIED IN TABLE 1 OF THIS SHEET. SEE TABLE 2 FOR THE SEED APPLICATION RATE FOR EACH BIOFILTER. NONE OF THE SELECTED SPECIES LISTED IN TABLE 1 SHALL COMPRISE MORE THAN 15% OF THE TOTAL SEED MIX REQUIRED FOR EACH BASIN.

2. ALL PLANT MATERIAL SHALL MEET OR EXCEED THE REQUIREMENTS OF THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

3. ALL PLANT MATERIAL MUST BE SELECTED FROM CERTIFIED NURSERIES THAT HAVE BEEN INSPECTED BY STATE OR FEDERAL AGENCIES.

4. ALL PLANT MATERIAL SHALL HAVE BEEN GROWN IN USDA PLANT HARDINESS ZONE 7, EAST OF TENNESSEE.

5. SPECIES LISTED IN TABLE 1 SHALL NOT BE SUBSTITUTED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.

6. THE BIORETENTION AREAS SHALL CONTAIN FILTER MEDIA CONTAINING 85%-88% SAND, 8%-12% SOIL FINES, AND 3%-5% ORGANIC MATTER IN THE FORM OF LEAF COMPOST IN ACCORDANCE WITH VA DEQ STORMWATER DESIGN SPECIFICATION NO. 9 (SECTION 6.6).

7. THE PLANTING SOIL FOR BIORETENTION AREAS SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF VIRGINIA STORMWATER DESIGN SPECIFICATION NO. 9. THE TEST RESULTS MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION IN THE BIORETENTION AREAS.

8. EROSION CONTROL MATTING SHALL BE INSTALLED WITHIN THE SEEDING AREA AND SHALL CONSIST OF 100% NON-SYNTHETIC NATURAL BIO-DEGRADABLE COIR FIBER TWINE. THE PLANTING SOIL SHALL HAVE EROSION CONTROL MATTING INSTALLED FOLLOWING THE SEEDING APPLICATION.

9. SAND SHALL BE FREE OF DELETERIOUS MATERIALS AND SHALL MEET AASHTO OR ASTM-33 WITH A GRAIN SIZE OF 0.02"-0.04".

IV. CARE AND REPLACEMENT

IF PRECIPITATION AND HYDROLOGY ARE OTHERWISE INSUFFICIENT DURING THE GROWING SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE PLANT MATERIAL ALIVE. FOR EXAMPLE, IF THERE IS LESS THAN 1 INCH OF RAINFALL IN A SEVEN DAY PERIOD DURING THE MONTH OF APRIL THROUGH SEPTEMBER, WATERING SHOULD OCCUR. WATER MUST BE SUFFICIENT TO SATURATE THE SURFACE WITHOUT CAUSING SURFACE INUNDATION THAT PERSISTS FOR MORE THAN 6 HOURS.

TABLE 1

HERBACEOUS MEADOW SEED MIX: 40 LBS/AC REQUIRED

SCIENTIFIC NAME	COMMON NAME
AGROSTIS ALBA	REDTOP
PANICUM VIRGATUM	SWITCH GRASS
SCIRPUS AMERICANUS	COMMON THREE SQUARE
EUPATORIUM PURPUREUM	JOE PYE WEED
HIBISCUS MOSCHEUTOS	MARSH HIBISCUS
ELYMUS VIRGINICUS	VIRGINIA WILD RYE
ASCLEPIAS INCARNATA	SWAMP MILKWEED
PONTEDERIA CORDATA	PICKERELWEED
SCIRPUS VALIDUS	SOFT STEM BRUSH
LOBELIA CARDINALIS	CARDINAL FLOWER
SCIRPUS CYPERNINUS	WOOL GRASS

TABLE 2

BIORETENTION FILTER	HERBACEOUS MEADOW SEED MIX	SEEDING AREA (SQ FT)	HERBACEOUS MEADOW SEED MIX APP. RATE (LBS/AC)	HERBACEOUS MEADOW SEED MIX REQUIRED (LBS)	SIDE SLOPE TURF GRASS SEEDING AREA (SF)	TURF GRASS SEED MIX REQUIRED (LBS AT 3 LBS/1000 SF)
SWM 3	SEE TABLE 1	4,972	40	5	1,993	6

TABLE 3

BIORETENTION FILTER	BIORETENTION MEDIA (CY)	MULCH LAYER (CY)	EROSION CONTROL MATTING (SQ FT)
SWM 3	368	31	4,972

BIORETENTION FILTER MEDIA SPECIFICATIONS (VA BMP SPECIFICATION NO. 9)

MATERIAL	SPECIFICATION	NOTES
FILTER MEDIA COMPOSITION	FILER MEDIA TO CONTAIN - 85% - 88% SAND - 8% - 12% SOIL FINES - 3% - 5% ORGANIC MATTER	THE VOLUME OF FILTER MEDIA BASED ON 110% OF THE PLAN VOLUME, TO ACCOUNT FOR SETTLING OR COMPACTION
FILTER MEDIA TESTING	P-INDEX RANGE = 10-30, OR BETWEEN 7 AND 21 MG/KG OF P IN THE SOIL MEDIA. CECS GREATER THAN 10.	THE MEDIA MUST BE PROCURED FROM APPROVED FILER MEDIA VENDORS.

PROJECT	SHEET NO.
0028-029-269	2B(13)

2/11/2021
10:25:51 AM

dl08720-03.dgn
Plotted By: c Jennings

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated: 6-17-2020

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	3

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

Curve NB28-1
PI = 103+48.48
DELTA = 28° 25' 58.26" (RT)
D = 4° 58' 56"
T = 291.35'
L = 570.68'
R = 1150.00'
PC = 100+57.13
PT = 106+27.82

Curve SB28-1
PI = 103+99.39
DELTA = 29° 24' 45.62" (RT)
D = 4° 51' 37"
T = 309.40'
L = 605.15'
R = 1178.83'
PC = 100+89.99
PT = 106+95.14

Curve SRV-1
PI = 11+69.36
DELTA = 17° 14' 19.69" (RT)
D = 18° 11' 21"
T = 47.75'
L = 94.78'
R = 315.00'
PC = 11+21.61
PT = 12+16.39

Curve SRV-2
PI = 12+97.36
DELTA = 9° 01' 37.00" (RT)
D = 18° 11' 21"
T = 24.87'
L = 49.63'
R = 315.00'
PC = 12+72.50
PT = 13+22.13

Curve SRV-3
PI = 14+58.98
DELTA = 34° 10' 48.58" (LT)
D = 63° 39' 43"
T = 27.67'
L = 53.69'
R = 90.00'
PC = 14+31.31
PT = 14+85.00

051
PARCEL A
NORTHERN VIRGINIA PARK AUTHORITY
D.B. 2531, PG. 685
TAX MAP 74-1 ((1)) 16

BEGIN CONSTRUCTION
BULL RUN SERVICE RD.
STA. 10+33.77

BOARD OF SUPERVISORS OF
FAIRFAX COUNTY, VIRGINIA
D.B. 10037, PG. 1511
TAX MAP 74-1 ((1)) 15

Magda Roca
D.B. 25659, PG. 1495
TAX MAP 74-1 ((1)) 14

BILLY RAY WU-RORRER,
EMILY RENEE WU-RORRER,
TZY-WOEI WU, FU-MEI LIN WU,
VICTORIA WU
D.B. 16416, PG. 1287
TAX MAP 74-1 ((1)) 13
052

LEWIS E. WASHINGTON III
& CHELSEA B. WASHINGTON
D.B. 5305, PG. 805
TAX MAP 74-1 ((1)) 3
001

END CONSTRUCTION
BULL RUN SERVICE RD.
STA. 14+80.59

Match Line - Sta. 105+50 - See Sheet 4

Bull Run Service Rd
Entrance M S 76° 32' 18" W
Entrance L
ROUTE 28 SB
ROUTE 28 NB
SERVICE RD B
SUP 03
Retaining Wall 01
EXIST. R/W
Hinge
3-1
3-2
3-3
3-4
3-5
3-6
3-7
3-9
Ex. 3-8

POT 10+00.00
PC 10+00.00
PT 10+83.29
PC 12+72.50
PT 13+22.13
PT 12+16.39
PC 10+17.44
PT 10+61.87
PC 11+73.13
PT 11+21.39
PC 14+31.31
PT 14+85.00
PRC 12+14.64
PT 12+59.19
PCC 10+07.00
PC 11+21.61
POT 99+18.89
PC 100+89.99
PT 106+27.82
POT 11+12.63
POT 100+00.00
PC 100+57.13

OLD RTE 28
NORTHERN VIRGINIA PARK AUTHORITY
D.B. 5702, PG. 262
TAX MAP 74-1 ((1)) 24

BEGIN CONSTRUCTION
SB ROUTE 28
STA. 101+00.00

BEGIN CONSTRUCTION
NB ROUTE 28
STA. 102+46.18

Begin Project
0028-029-269, P101
Sta. 100+00.00

Begin Project
0028-029-269, C501
Sta. 100+98.58

N 19° 59' 39" W
N 23° 08' 58" W
N 22° 05' 55" W
N 2° 45' 19" W
N 2° 11' 40" W
N 6° 16' 27" E
N 6° 16' 18" E
N 7° 30' 00" E
N 6° 20' 03" E
N 77° 31' 41" E

NORTHERN VIRGINIA PARK AUTHORITY
D.B. 2458, PG. 339
D.B. 2531, PG. 685
TAX MAP 74-1 ((1)) 8

NORTHERN VIRGINIA
PARK AUTHORITY
D.B. 5702, PG. 262
TAX MAP 74-1 ((1)) 25

KENNETH V. DAVIS JR.
D.B. 25326, PG. 343
TAX MAP 74-1 ((1)) 10

WILLIAM J. PALERMO
D.B. 24720, PG. 2135
TAX MAP 74-1 ((1)) 5
048

Match Line - Sta. 106+50 - See Sheet 4

EC-3 Ty. 1 Width = 1'
EC-3 Ty. 1 Width = 2'
EC-3 Ty. 1 Width = 3'
EC-3 Ty. 1 Width = 4'
EC-3 Ty. 2 Width = 6'
EC-3 Ty. 1 Width = 6'

Ⓐ Begin Retaining Wall 01
Sta. 10+00.00 • Route 28 SB
Sta. 104+09.88
N 6,977,741.7857
E 11,782,207.5725
(See Sheet 41 for Retaining Wall Profile and Details)

Ⓑ End Retaining Wall 01
Sta. 11+21.39 • Route 28 SB
Sta. 105+30.00
N 6,977,863.1029
E 11,782,205.1726
(See Sheet 41 for Retaining Wall Profile and Details)

Median/Curb Points

	Alignment	Elev. (FT.)	Offset / Station
1	SB Rte. 28	180.98	25' RT +54.51
2	NB Rte. 28	180.51	24.82' LT +46.18
3	SB Rte. 28	181.80	37' RT +16.87
4	NB Rte. 28	181.62	13' LT +05.99
5	Entrance M	174.53	8.04' RT +59.34
6	Service Rd.	174.56	10' RT +69.58

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(1)
Typical Sections	2A(1), 2A(6)
E&S Phase 1B(1)/2	2F(1)
E&S Phase 3	2G(1)
Route 28 Profile	3A
Service Road Profile	3B
SUP 03 Profile	32(2)
Entrance M, L Profiles	32(4)
Drainage Descriptions	33
Retaining Wall Profile	41

Key Legend (XX)

1 6" Curb, Std. CG-2 Req'd.
2 4" Curb, Std. CG-3 Req'd.
3 6" Curb and Gutter, Std. CG-6 Req'd.
4 4" Curb and Gutter, Std. CG-7 Req'd.
5 Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.
6 Not Used
7 Conc. Raised Median, Std. MS-1A (6" Curb)
8 Grass Raised Median, Std. MS-2 (6" Curb)
9 Entrance Gutter, Std. CG-9D Req'd.
10 Entrance, Std. CG-11 Req'd.
11 Curb Ramp, Std. CG-12 Req'd.
12 Underdrain Endwall, Std. EW-12 Req'd.
13 Shoulder Break Over Line
14 Groundwater Underdrain, Std. UD-1 Req'd.
15 Curb-Cut Opening, Drainage Flume
16 Pavement Underdrain, Std. UD-4 Req'd.
17 Pavement Underdrain, Mod. 6" UD-4 Req'd.
18 Crossdrain, Std. CD-1 Req'd.
19 Crossdrain, Std. CD-2 Req'd.
20 Standard Fence, Std. FE-CL Req'd.
21 Grass Raised Median, Std. MS-2 (4" Curb)
22 Chain Link Fence, Std. FE-CL Req'd.
23 Guardrail, Std. GR-MGS1 Req'd.
24 Guardrail, Std. GR-MGS1A Req'd.
25 Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.
26 Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.
27 Guardrail, Std. GR-10, Type I Req'd.
28 Guardrail, Std. GR-10, Type II Req'd.
29 Guardrail, Std. GR-10, Type III Req'd.
30 Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.
31 Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.
32 Guardrail Transition, Std. GR-MGS4 Req'd.
33 End CG-9D Entrance Type
34 Handrail, Std. HR-1 Type III Req'd.
35 Remove Exist. Guardrail
36 Remove Exist. Fence
37 Remove Exist. Structure
38 Remove Or Abandon and Fill Exist. Pipe
39 Remove Exist. Pole
40 Adjust Exist. Structure
41 Clean Out Exist. Structure
42 Full Depth Sawcut
43 Clean Out Exist. Pipe
44 10' Gutter Run Out
45 Median Barrier, Std. MB-8A Req'd.
46 Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

X — Curb Ramp — See Sheet 2A(8)-(9)
CR XX — Curb Return — See Sheet 2A(7)
C — Denotes Construction Limits In Cuts
F — Denotes Construction Limits In Fills

SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	3

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SB ROUTE 28

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	3A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER

BEGIN CONSTRUCTION
SOUTHBOUND ROUTE 28
0028-029-269, C-501
STA. 101+00.00

+00.00 — MILL & OVERLAY - MATCH EXISTING

+70.00 — RT SIDE - 130' TRANSITION FROM 0.005 FT/FT LT TO 0.039 FT/FT LT

+00.00 — RT SIDE - FULL SE AT 0.039 FT/FT LT

+70.00 — LT SIDE - 119.31' TRANSITION FROM 0.005 FT/FT LT TO 0.016 FT/FT RT

+89.31 — Entrance M
Sta. 102+89.31
Elev. 182.52'

STA. = 102+75.00
EL. = 182.37
SSD = 425'
ex. = -0.05'
K = 114
L = 69.38
V = 50 mph

PGL

+2.78%

+2.17%

75' TRANSITION FROM 0.039 FT/FT LT TO 0.020 FT/FT LT

+43.82

EXISTING GROUND

FULL SE AT 0.039 FT/FT LT

+89.31 — Prop. 30" Concrete Pipe
Sta. 103+18.43
Inv. = 171.99

+97.93

LT SIDE - 308.62' TRANSITION FROM 0.016 FT/FT RT TO 0.039 FT/FT LT

+00.02

SPLINE GRADE

MATCH LINE - STA.106+50 SB BL - SEE SHEET 4A

SB ROUTE 28	100+00	101+00	102+00	103+00	104+00	105+00	106+00
OUTSIDE EP (XX' OFFSET)			179.51 (10.51')	180.20 (11.80')	180.80 (13.21')	181.43 (15.79')	183.34 (12.89')	184.05 (12.00')	184.77 (12.00')	185.42 (12.00')	186.01 (13.39')	186.50 (11.60')	187.02 (9.90')	187.58 (8.29')	188.12 (4.77')	188.75 (3.35')	189.42 (2.02')	190.30 (5.48')	191.04 (6.00')	191.79
PGL EXIST.	174.81	175.81	177.50 / 177.50	178.9 / 178.9	178.94 / 178.94	179.51 / 179.51	180.20 / 180.19	180.82 / 180.78	181.48 / 181.30	182.14 / 181.85	182.80 / 182.37	183.46 / 182.85	184.11 / 183.32	184.78 / 183.81	185.38 / 184.33	185.90 / 184.79	186.35 / 185.33	186.85 / 185.87	187.40 / 186.40	188.00 / 187.00	188.65 / 187.61	189.35 / 188.25	190.09 / 188.93	190.81 / 189.60	191.57
MEDIAN EP (XX' OFFSET)			177.45 (25.12')	178.05 (25.01')	178.82 (25.00')	179.35 (25.00')	179.88 (25.00')	180.34 (25.00')	180.83 (25.00')	182.02 (37.00')	182.67 (37.00')	183.34 (37.00')	183.94 (37.00')	184.46 (36.80')	184.97 (35.45')	185.54 (33.59')	186.18 (31.20')	186.88 (28.84')	187.60 (27.04')	188.34 (25.88')	189.11 (25.14')	189.84 (25.00')	190.63

STA. = 105+94.25
EL. = 189.31
ex. = 0.49
K = 26.3
L = 322.07
V = 80 mph

NORTHBOUND ROUTE 28
0028-029-269, P-101
STA. 100+00.00

BEGIN CONSTRUCTION
NORTHBOUND ROUTE 28
0028-029-269, C-501
STA. 102+46.18

SPLINE GRADE

STA. = 105+79.00
EL. = 187.72
ex. = 0.37'
K = 191
L = 232.98
V = 70 mph

+46.18 — +66.18 — LT SIDE - FULL SE AT 0.039 FT/FT LT

LT SIDE - 20' TRANSITION FROM EXIST. 0.0335 FT/FT LT TO 0.039 FT/FT LT

Entrance L
Sta. 102+80.30
Elev. 180.90'

PGL

+2.45%

LT SIDE - 145' TRANSITION FROM 0.039 FT/FT LT TO 0.020 FT/FT RT

LT SIDE - FULL SE AT 0.039 FT/FT LT

+95.87

EXISTING GROUND

Prop. 30" Concrete Pipe
Sta. 103+10.02
Inv. = 175.34

Ex. 30" Concrete Pipe
Sta. 104+84.47
Inv. = 176.03

RT SIDE - 46.70' TRANSITION FROM 0.039 FT/FT LT TO 0.020 FT/FT LT

+46.18 — +76.18 — RT SIDE - 30' TRANSITION FROM EXIST. 0.0278 FT/FT LT TO 0.039 FT/FT LT

RT SIDE - FULL SE AT 0.039 FT/FT LT

+95.87 — +42.57

MATCH LINE - STA.106+50 NB BL - SEE SHEET 4A

NB ROUTE 28	100+00	101+00	102+00	103+00	104+00	105+00	106+00
MEDIAN EP (XX' OFFSET)			182.08 (3.00')	182.68 (3.00')	183.28 (3.00')	183.88 (3.00')	184.47 (12.00')	185.04 (12.00')	185.64 (12.00')	186.30 (12.00')	187.03 (12.00')	187.82 (12.00')	188.66 (12.00')	189.45 (12.00')	190.07 (12.00')	190.73
PGL EXIST.	175.49	175.92	176.45	176.99	177.40	177.77	178.22	178.72	179.23	179.77 / 179.75	180.37 / 180.29	180.97 / 180.85	181.57 / 181.39	182.17 / 181.86	182.77 / 182.35	183.37 / 182.89	184.00 / 183.47	184.57 / 184.01	185.17 / 184.69	185.83 / 185.35	186.56 / 186.03	187.35 / 186.84	188.19 / 187.65	189.00 / 188.46	189.74 / 189.25	190.53
OUTSIDE EP (XX' OFFSET)			179.39 (12.00')	180.50 (12.00')	181.10 (12.00')	181.70 (12.00')	182.30 (12.00')	182.90 (12.00')	183.53 (12.00')	184.10 (12.00')	184.70 (12.00')	185.36 (12.00')	186.09 (12.00')	186.88 (12.00')	187.72 (12.00')	188.55 (12.00')	189.41 (12.00')	190.29

NB ROUTE 28

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT	SHEET NO.
0028-029-269	3A

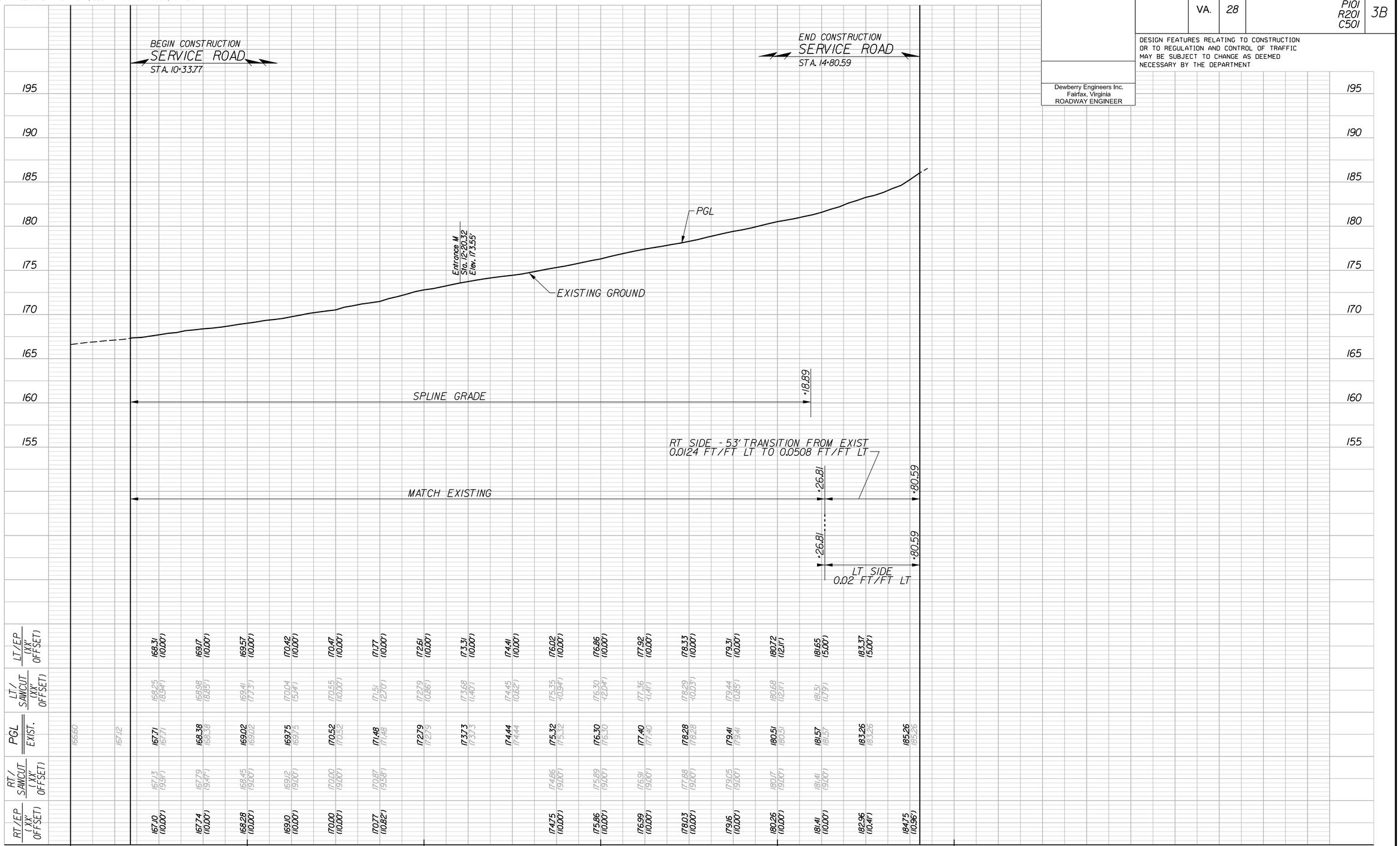
Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	3B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



RT./EP (XX' OFFSET)	RT./ SAWCUT (XX' OFFSET)	PGL EXIST.	LT./ SAWCUT (XX' OFFSET)	LT./EP (XX' OFFSET)
		166+60		
		167+12		
167.10 (10.00')	167.13 (9.91')	167.71 167.71	168.25 (8.34')	168.31 (10.00')
167.74 (10.00')	167.79 (9.47')	168.38 168.38	168.98 (8.85')	169.17 (10.00')
168.28 (10.00')	168.45 (9.00')	169.02 169.02	169.41 (7.73')	169.57 (10.00')
169.10 (10.00')	169.12 (9.00')	169.75 169.75	170.04 (5.41')	170.42 (10.00')
170.00 (10.00')	170.00 (9.00')	170.52 170.52	170.55 (10.00')	170.47 (10.00')
170.77 (10.82')	170.87 (9.58')	171.48 171.48	171.51 (2.70')	171.77 (10.00')
		172.79 172.79	172.79 (0.26')	172.61 (10.00')
		173.73 173.73	173.68 (1.40')	173.31 (10.00')
		174.44 174.44	174.45 (0.62')	174.41 (10.00')
174.75 (10.00')	174.86 (9.00')	175.32 175.32	175.35 (10.94')	176.02 (10.00')
175.86 (10.00')	175.89 (9.00')	176.30 176.30	176.30 (12.04')	176.86 (10.00')
176.99 (10.00')	176.91 (9.00')	177.40 177.40	177.36 (1.41')	177.92 (10.00')
178.03 (10.00')	177.88 (9.00')	178.28 178.28	178.29 (10.03')	178.33 (10.00')
179.16 (10.00')	179.05 (9.00')	179.41 179.41	179.44 (0.85')	179.31 (10.00')
180.26 (10.00')	180.17 (9.00')	180.51 180.51	180.68 (12.11')	180.72 (12.11')
181.41 (10.00')	181.41 (9.00')	181.57 181.57	181.51 (11.79')	181.65 (5.00')
182.96 (10.41')		183.26 183.26		183.37 (5.00')
184.75 (10.96')		185.26 185.26		

SERVICE ROAD

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT 0028-029-269

SHEET NO. 3B

2/11/2021
10:29:50 AM

d108720-04.dgn
Plotted By: cJennings

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated: 6-17-2020

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

STATE		
ROUTE	PROJECT	
VA. 28	0028-029-269 P101 R201 C501	4

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

Curve SB28-1
PI = 103+99.39
DELTA = 29° 24' 45.62" (RT)
D = 4° 51' 37"
T = 309.40'
L = 605.15'
R = 1178.83'
PC = 100+89.99
PT = 106+95.14

(A) N 84° 09' 08" W
(B) S 59° 49' 18" W
(C) S 45° 20' 16" W

001
LEWIS E. WASHINGTON III & CHELSEA B. WASHINGTON
D.B. 5305, PG. 805
TAX MAP 74-1 ((1)) 3

002
BURKETT GREENE AND ERMA BUSH
D.B. 19566, PG. 1536
TAX MAP 65-3 ((1)) 85

JOHN TRAN & LIEN NGUYEN
D.B. 24838, PG. 269
TAX MAP 65-3 ((1)) 86

003

JAE SEON OUM & JAE MURPHY
D.B. 25747, PG. 425
TAX MAP 65-3 ((1)) 87

004

JUAN DE DIOS SARTIA CARDENAS
D.B. 26361, PG. 703
TAX MAP 65-3 ((1)) 88

005

Entrance A — POT10+87.29 — PT10+55.24 — PC10+47.19 — PT10+39.90 — PT13+63.58 — PC13+57.10 — POT14+08.68 — PC10+19.88 — POT10+00.00 — PT106+95.14 — N 11° 00' 07" E — SUP 03 — R=7.42' — R=30'
Entrance B — POT10+98.58 — N 75° 10' 53" W — PT10+60.92 — PC10+51.75 — N 83° 32' 33" W — POT10+00.00 — N 5° 50' 52" E — ROUTE 28 SB
Entrance C — POT11+00.02 — N 72° 59' 22" W — PT10+57.54 — PC10+44.14 — N 83° 21' 02" W — R=140' — R=160' — POT10+00.00
Entrance D — POT11+05.88 — N 79° 08' 36" W — R=5' — R=20.2' — N 84° 08' 08" W — POT10+00.00
Entrance H — S 83° 39' 57" E — POT10+00.00 — N 6° 20' 03" E — ROUTE 28 NB
Entrance I — S 83° 39' 57" E — PC11+18.11 — PT11+31.47 — N 58° 04' 21" E — POT11+72.40
Entrance J — S 83° 39' 57" E — POT11+21.55

Match Line - Sta. 106+50 - See Sheet 3
Match Line - Sta. 113+50 - See Sheet 5

Begin Project
0028-029-269, R-201
Sta. 106+58.58

10' Asphalt Walkway
Begin Transition
6' Back-up Berm Req'd.
EC-3 Ty.I Width = 1' / 2' / 3' / 4' / 5' / 6'
PROP.GRAD.AGMT.& TEMP.CONST.ESMT
EXIST.R/W
Hinge

048
WILLIAM J. PALERMO
D.B. 24720, PG. 2135
TAX MAP 74-1 ((1)) 5

RYAN SON NGUYEN
D.B. 25799, PG. 76
TAX MAP 65-3 ((1)) 92

RENEE BRITTON AND HARRY H. BRITTON
D.B. 11770, PG. 285
TAX MAP 74-1 ((1)) 4

BRYAN A. SKOKAN
D.B. 15201, PG. 1180
TAX MAP 65-3 ((1)) 91

049

CENTREVILLE 7015 LLC
D.B. 22830, PG. 1285
TAX MAP 65-3 ((1)) 89

050

CENTREVILLE 7015 LLC
D.B. 24915, PG. 1425
TAX MAP 65-3 ((1)) 90

Key Legend (XX)

1	6" Curb, St'd. CG-2 Req'd.	11	Curb Ramp, St'd. CG-12 Req'd.	23	Guardrail, St'd. GR-MGSI Req'd.	35	Remove Exist. Guardrail
2	4" Curb, St'd. CG-3 Req'd.	12	Underdrain Endwall, St'd. EW-12 Req'd.	24	Guardrail, St'd. GR-MGSIA Req'd.	36	Remove Exist. Fence
3	6" Curb and Gutter, St'd. CG-6 Req'd.	13	Shoulder Break Over Line	25	Guardrail Tangent End Terminal, St'd. GR-MGS2 Req'd.	37	Remove Exist. Structure
4	4" Curb and Gutter, St'd. CG-7 Req'd.	14	Groundwater Underdrain, St'd. UD-1 Req'd.	26	Guardrail Trailing End Achorage, St'd. GR-MGS3 Req'd.	38	Remove Or Abandon and Fill Exist. Pipe
5	Conc. Raised Median, St'd. MS-1 with 4" Curb Req'd.	15	Curb-Cut Opening, Drainage Flume	27	Guardrail, St'd. GR-10, Type I Req'd.	39	Remove Exist. Pole
6	Not Used	16	Pavement Underdrain, St'd. UD-4 Req'd.	28	Guardrail, St'd. GR-10, Type II Req'd.	40	Adjust Exist. Structure
7	Conc. Raised Median, St'd. MS-1A (6" Curb)	17	Pavement Underdrain, Mod. 6" UD-4 Req'd.	29	Guardrail, St'd. GR-10, Type III Req'd.	41	Clean Out Exist. Structure
8	Grass Raised Median, St'd. MS-2 (6" Curb)	18	Crossdrain, St'd. CD-1 Req'd.	30	Fixed Object Att., St'd. GR-FOA-2 Ty.1 Req'd.	42	Full Depth Sawcut
9	Entrance Gutter, St'd. CG-9D Req'd.	19	Crossdrain, St'd. CD-2 Req'd.	31	Fixed Object Att., St'd. GR-FOA-2 Ty.2 Req'd.	43	Clean Out Exist. Pipe
10	Entrance, St'd. CG-11 Req'd.	20	Standard Fence, St'd. FE-CL Req'd.	32	Guardrail Transition, St'd. GR-MGS4 Req'd.	44	10' Gutter Run Out
		21	Grass Raised Median, St'd. MS-2 (4" Curb)	33	End CG-9D Entrance Type	45	Median Barrier, St'd. MB-8A Req'd.
		22	Chain Link Fence, St'd. FE-CL Req'd.	34	Handrail, St'd. HR-1 Type III Req'd.	46	Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

(X) Curb Ramp — See Sheet 2A(8)-(9)
(CR XX) Curb Return — See Sheet 2A(7)
C ---- Denotes Construction Limits In Cuts
F ---- Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(1)
Typical Sections	2A(1), 2A(6)
E&S Phase 1B(1)/2	2F(1)-2F(2)
E&S Phase 3	2G(1)-2G(2)
Route 28 Profiles	4A
Entrance A, B, C, D, H, I Profiles	32(1)
Entrance J Profile	32(2)
SUP-3 Profile	32(4)
Drainage Descriptions	33

SCALE 0 25' 50'

0028-029-269	4

2/11/2021
10:31:02 AM

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Plotted By: cjennings

Dewberry

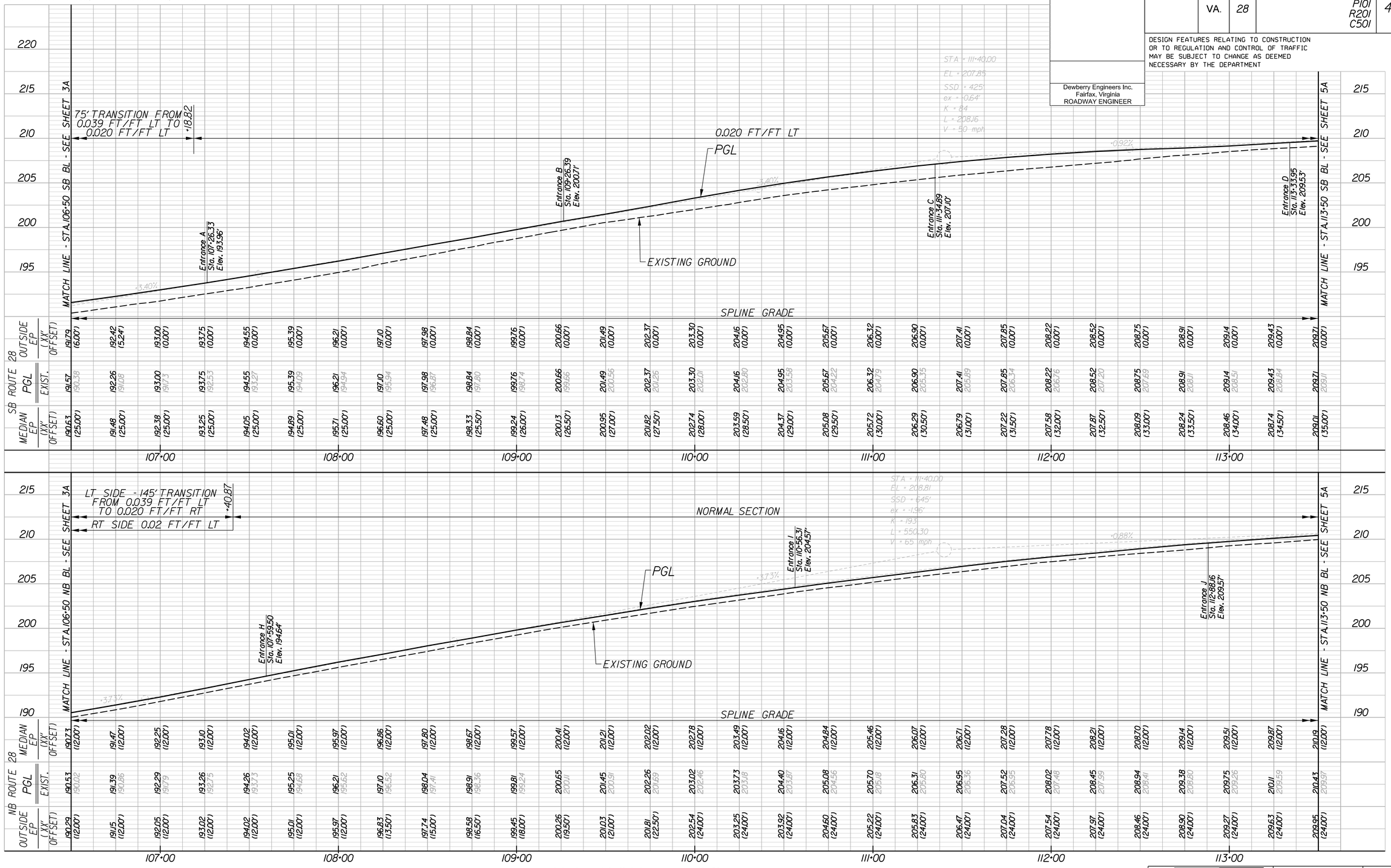
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SB ROUTE 28

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	4A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



SB ROUTE 28

MEDIAN EP (XX' OFFSET)	PGL / EXIST.	OUTSIDE EP (XX' OFFSET)
190.63 (25.00')	191.57 / 190.38	191.79 (6.00')
191.48 (25.00')	192.26 / 191.08	192.42 (5.24')
192.38 (25.00')	193.00 / 191.73	193.00 (0.00')
193.25 (25.00')	193.75 / 192.53	193.75 (0.00')
194.05 (25.00')	194.55 / 193.27	194.55 (0.00')
194.89 (25.00')	195.39 / 194.09	195.39 (0.00')
195.71 (25.00')	196.21 / 194.94	196.21 (0.00')
196.60 (25.00')	197.10 / 195.84	197.10 (0.00')
197.48 (25.00')	197.98 / 196.87	197.98 (0.00')
198.33 (25.50')	198.84 / 197.20	198.84 (0.00')
199.24 (26.00')	199.76 / 198.14	199.76 (0.00')
200.13 (26.50')	200.66 / 199.66	200.66 (0.00')
200.95 (27.00')	201.49 / 200.56	201.49 (0.00')
201.82 (27.50')	202.37 / 201.26	202.37 (0.00')
202.74 (28.00')	203.30 / 202.01	203.30 (0.00')
203.59 (28.50')	204.16 / 202.80	204.16 (0.00')
204.37 (29.00')	204.95 / 203.58	204.95 (0.00')
205.08 (29.50')	205.67 / 204.22	205.67 (0.00')
205.72 (30.00')	206.32 / 204.79	206.32 (0.00')
206.29 (30.50')	206.90 / 205.35	206.90 (0.00')
206.79 (31.00')	207.41 / 205.89	207.41 (0.00')
207.22 (31.50')	207.85 / 206.34	207.85 (0.00')
207.58 (32.00')	208.22 / 206.76	208.22 (0.00')
207.87 (32.50')	208.52 / 207.20	208.52 (0.00')
208.09 (33.00')	208.75 / 207.69	208.75 (0.00')
208.24 (33.50')	208.91 / 208.11	208.91 (0.00')
208.46 (34.00')	209.14 / 208.51	209.14 (0.00')
208.74 (34.50')	209.43 / 208.84	209.43 (0.00')
209.01 (35.00')	209.71 / 209.11	209.71 (0.00')

107+00 108+00 109+00 110+00 111+00 112+00 113+00

NB ROUTE 28

OUTSIDE EP (XX' OFFSET)	PGL / EXIST.	MEDIAN EP (XX' OFFSET)
190.29 (12.00')	190.53 / 190.02	190.73 (12.00')
191.15 (12.00')	191.39 / 190.86	191.47 (12.00')
192.05 (12.00')	192.29 / 191.79	192.25 (12.00')
193.02 (12.00')	193.26 / 192.75	193.10 (12.00')
194.02 (12.00')	194.26 / 193.73	194.02 (12.00')
195.01 (12.00')	195.25 / 194.68	195.01 (12.00')
195.97 (12.00')	196.21 / 195.62	195.97 (12.00')
196.83 (13.50')	197.10 / 196.52	196.86 (12.00')
197.74 (15.00')	198.04 / 197.41	197.80 (12.00')
198.58 (16.50')	198.91 / 198.36	198.67 (12.00')
199.45 (18.00')	199.81 / 199.24	199.57 (12.00')
200.26 (19.50')	200.65 / 200.11	200.41 (12.00')
201.03 (21.00')	201.45 / 200.91	201.21 (12.00')
201.81 (22.50')	202.26 / 201.69	202.02 (12.00')
202.54 (24.00')	203.02 / 202.46	202.78 (12.00')
203.25 (24.00')	203.73 / 203.18	203.49 (12.00')
203.92 (24.00')	204.40 / 203.87	204.16 (12.00')
204.60 (24.00')	205.08 / 204.56	204.84 (12.00')
205.22 (24.00')	205.70 / 205.18	205.46 (12.00')
205.83 (24.00')	206.31 / 205.80	206.07 (12.00')
206.47 (24.00')	206.95 / 206.36	206.71 (12.00')
207.04 (24.00')	207.52 / 206.95	207.28 (12.00')
207.54 (24.00')	208.02 / 207.48	207.78 (12.00')
207.97 (24.00')	208.45 / 207.99	208.21 (12.00')
208.46 (24.00')	208.94 / 208.41	208.70 (12.00')
208.90 (24.00')	209.38 / 208.80	209.14 (12.00')
209.27 (24.00')	209.75 / 209.26	209.51 (12.00')
209.63 (24.00')	210.11 / 209.59	209.87 (12.00')
209.95 (24.00')	210.43 / 209.97	210.19 (12.00')

107+00 108+00 109+00 110+00 111+00 112+00 113+00

NB ROUTE 28

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT	SHEET NO.
0028-029-269	4A

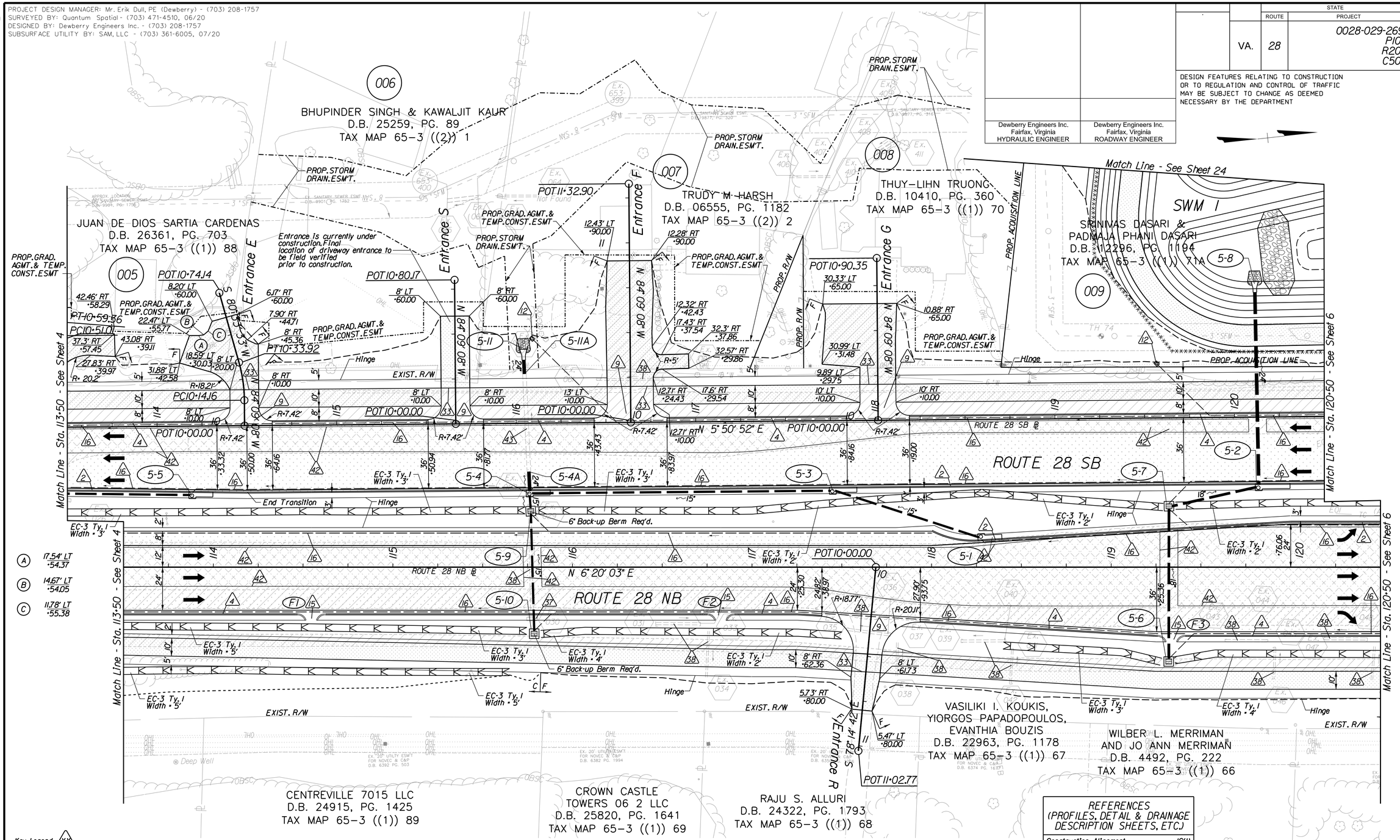
Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

STATE		
ROUTE	PROJECT	
VA. 28	0028-029-269 P101 R201 C501	5

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



A	17.54' LT · 54.37
B	14.67' LT · 54.05
C	11.78' LT · 55.38

Key Legend (XX)

1	6" Curb, Std. CG-2 Req'd.	11	Curb Ramp, Std. CG-12 Req'd.	23	Guardrail, Std. GR-MGSI Req'd.	35	Remove Exist. Guardrail
2	4" Curb, Std. CG-3 Req'd.	12	Underdrain Endwall, Std. EW-12 Req'd.	24	Guardrail, Std. GR-MGSIA Req'd.	36	Remove Exist. Fence
3	6" Curb and Gutter, Std. CG-6 Req'd.	13	Shoulder Break Over Line	25	Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.	37	Remove Exist. Structure
4	4" Curb and Gutter, Std. CG-7 Req'd.	14	Groundwater Underdrain, Std. UD-1 Req'd.	26	Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.	38	Remove Or Abandon and Fill Exist. Pipe
5	Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.	15	Curb-Cut Opening, Drainage Flume	27	Guardrail, Std. GR-10, Type I Req'd.	39	Remove Exist. Pole
6	Not Used	16	Pavement Underdrain, Std. UD-4 Req'd.	28	Guardrail, Std. GR-10, Type II Req'd.	40	Adjust Exist. Structure
7	Conc. Raised Median, Std. MS-1A (6" Curb)	17	Pavement Underdrain, Mod. 6" UD-4 Req'd.	29	Guardrail, Std. GR-10, Type III Req'd.	41	Clean Out Exist. Structure
8	Grass Raised Median, Std. MS-2 (6" Curb)	18	Crossdrain, Std. CD-1 Req'd.	30	Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.	42	Full Depth Sawcut
9	Entrance Gutter, Std. CG-9D Req'd.	19	Crossdrain, Std. CD-2 Req'd.	31	Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.	43	Clean Out Exist. Pipe
10	Entrance, Std. CG-11 Req'd.	20	Standard Fence, Std. FE-CL Req'd.	32	Guardrail Transition, Std. GR-MGS4 Req'd.	44	10' Gutter Run Out
		21	Grass Raised Median, Std. MS-2 (4" Curb)	33	End CG-9D Entrance Type	45	Median Barrier, Std. MB-8A Req'd.
		22	Chain Link Fence, Std. FE-CL Req'd.	34	Handrail, Std. HR-1 Type III Req'd.	46	Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

(X) Curb Ramp See Sheet 2A(8)-(9)
(CR XX) Curb Return See Sheet 2A(7)
C ____ Denotes Construction Limits In Cuts
F ____ Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

SCALE 0 25' 50'

2/11/2021
10:33:21 AM

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Plotted By: cjennings

Dewberry

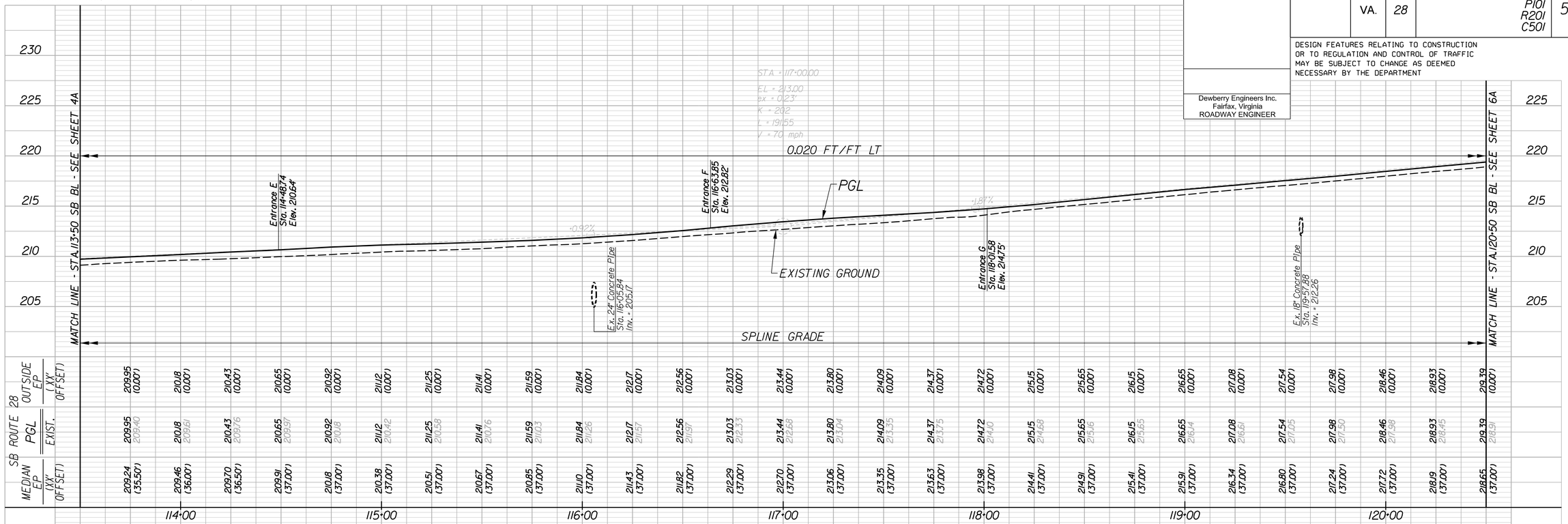
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SB ROUTE 28

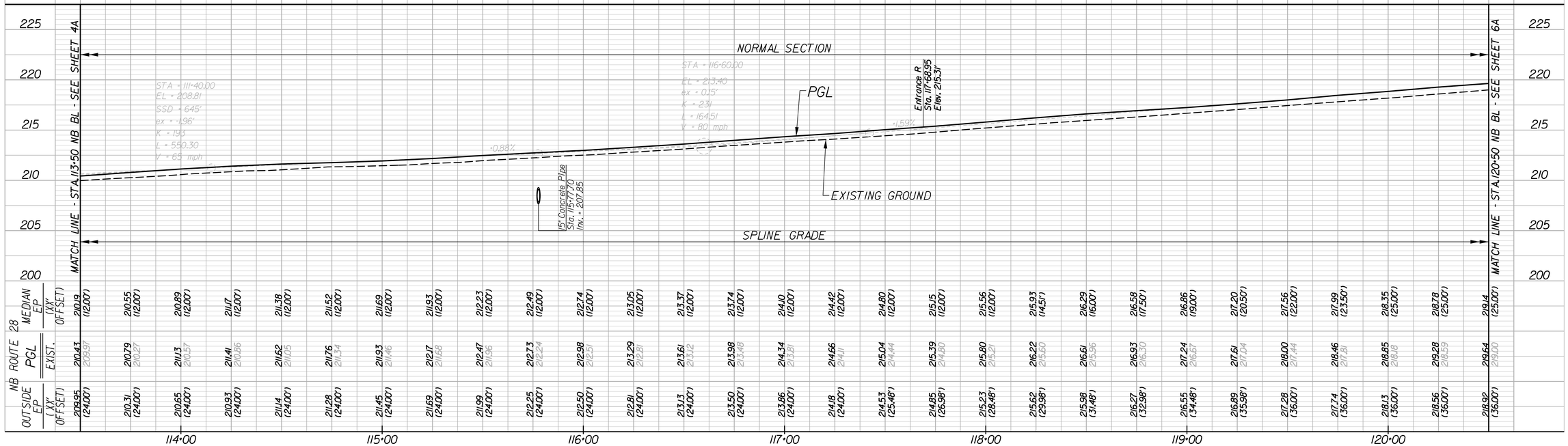
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	5A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



SB ROUTE 28	OUTSIDE EP (XX' OFFSET)	PGL EXIST.	MEDIAN EP (XX' OFFSET)
114+00	209.95 (0.00')	209.95 209.40	209.24 (35.50')
114+50	210.18 (0.00')	210.18 209.61	209.46 (36.00')
115+00	210.43 (0.00')	210.43 209.76	209.70 (36.50')
115+50	210.65 (0.00')	210.65 209.97	209.91 (37.00')
116+00	210.92 (0.00')	210.92 210.18	210.18 (37.00')
116+50	211.12 (0.00')	211.12 210.42	210.38 (37.00')
117+00	211.25 (0.00')	211.25 210.58	210.51 (37.00')
117+50	211.41 (0.00')	211.41 210.76	210.67 (37.00')
118+00	211.59 (0.00')	211.59 211.03	210.85 (37.00')
118+50	211.84 (0.00')	211.84 211.26	211.10 (37.00')
119+00	212.17 (0.00')	212.17 211.57	211.43 (37.00')
119+50	212.56 (0.00')	212.56 211.97	211.82 (37.00')
120+00	213.03 (0.00')	213.03 212.55	212.29 (37.00')
120+50	213.44 (0.00')	213.44 212.68	212.70 (37.00')
121+00	213.80 (0.00')	213.80 213.04	213.06 (37.00')
121+50	214.09 (0.00')	214.09 213.35	213.35 (37.00')
122+00	214.37 (0.00')	214.37 213.75	213.63 (37.00')
122+50	214.72 (0.00')	214.72 214.10	213.98 (37.00')
123+00	215.15 (0.00')	215.15 214.68	214.41 (37.00')
123+50	215.65 (0.00')	215.65 215.36	214.91 (37.00')
124+00	216.15 (0.00')	216.15 215.65	215.41 (37.00')
124+50	216.65 (0.00')	216.65 216.14	215.91 (37.00')
125+00	217.08 (0.00')	217.08 216.61	216.34 (37.00')
125+50	217.54 (0.00')	217.54 217.05	216.80 (37.00')
126+00	217.98 (0.00')	217.98 217.50	217.24 (37.00')
126+50	218.46 (0.00')	218.46 217.98	217.72 (37.00')
127+00	218.93 (0.00')	218.93 218.45	218.19 (37.00')
127+50	219.39 (0.00')	219.39 218.91	218.65 (37.00')



NB ROUTE 28	MEDIAN EP (XX' OFFSET)	PGL EXIST.	OUTSIDE EP (XX' OFFSET)
114+00	210.19 (12.00')	210.43 209.97	209.95 (24.00')
114+50	210.55 (12.00')	210.79 210.27	210.31 (24.00')
115+00	210.89 (12.00')	211.13 210.57	210.65 (24.00')
115+50	211.17 (12.00')	211.41 210.86	210.93 (24.00')
116+00	211.38 (12.00')	211.62 211.05	211.14 (24.00')
116+50	211.52 (12.00')	211.76 211.34	211.28 (24.00')
117+00	211.69 (12.00')	211.93 211.46	211.45 (24.00')
117+50	211.93 (12.00')	212.17 211.68	211.69 (24.00')
118+00	212.23 (12.00')	212.47 211.96	211.99 (24.00')
118+50	212.49 (12.00')	212.73 212.24	212.25 (24.00')
119+00	212.74 (12.00')	212.98 212.51	212.50 (24.00')
119+50	213.05 (12.00')	213.29 212.81	212.81 (24.00')
120+00	213.37 (12.00')	213.61 213.12	213.13 (24.00')
120+50	213.74 (12.00')	213.98 213.48	213.50 (24.00')
121+00	214.10 (12.00')	214.34 213.81	213.86 (24.00')
121+50	214.42 (12.00')	214.66 214.11	214.18 (24.00')
122+00	214.80 (12.00')	215.04 214.44	214.53 (25.48')
122+50	215.15 (12.00')	215.39 214.80	214.85 (26.98')
123+00	215.56 (12.00')	215.80 215.21	215.23 (28.48')
123+50	215.93 (14.51')	216.22 215.60	215.62 (29.98')
124+00	216.29 (16.00')	216.61 215.96	215.98 (31.48')
124+50	216.58 (17.50')	216.93 216.30	216.27 (32.98')
125+00	216.86 (19.00')	217.24 216.67	216.55 (34.48')
125+50	217.20 (20.50')	217.61 217.04	216.89 (35.98')
126+00	217.56 (22.00')	218.00 217.44	217.28 (36.00')
126+50	217.99 (23.50')	218.46 217.81	217.74 (36.00')
127+00	218.35 (25.00')	218.85 218.18	218.13 (36.00')
127+50	218.78 (25.00')	219.28 218.59	218.56 (36.00')
128+00	219.14 (25.00')	219.64 219.00	218.92 (36.00')

NB ROUTE 28

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT 0028-029-269
SHEET NO. 5A

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

Compton/Ordway Medians											
	Alignment	Elev. (Ft.)	Offset/ Station		Alignment	Elev. (Ft.)	Offset/ Station		Alignment	Elev. (Ft.)	Offset/ Station
(13)	SB Rte. 28	228.52	4.96' LT ·26.22	(17)	NB Rte. 28	222.27	28.01' RT ·36.02	(21)	Compton Rd. E.	220.13	16' RT ·88.33
(14)	SB Rte. 28	228.72	2' LT ·28.04	(18)	NB Rte. 28	222.07	31.77' LT ·35.21	(22)	Compton Rd. E.	220.13	19.47' RT ·89.68
(15)	SB Rte. 28	230.54	1' LT ·91.84	(19)	NB Rte. 28	223.37	26' RT ·88.72				
(16)	SB Rte. 28	230.54	7.72' LT ·87.55	(20)	Compton Rd. E.	223.11	20.44' RT ·40.07				

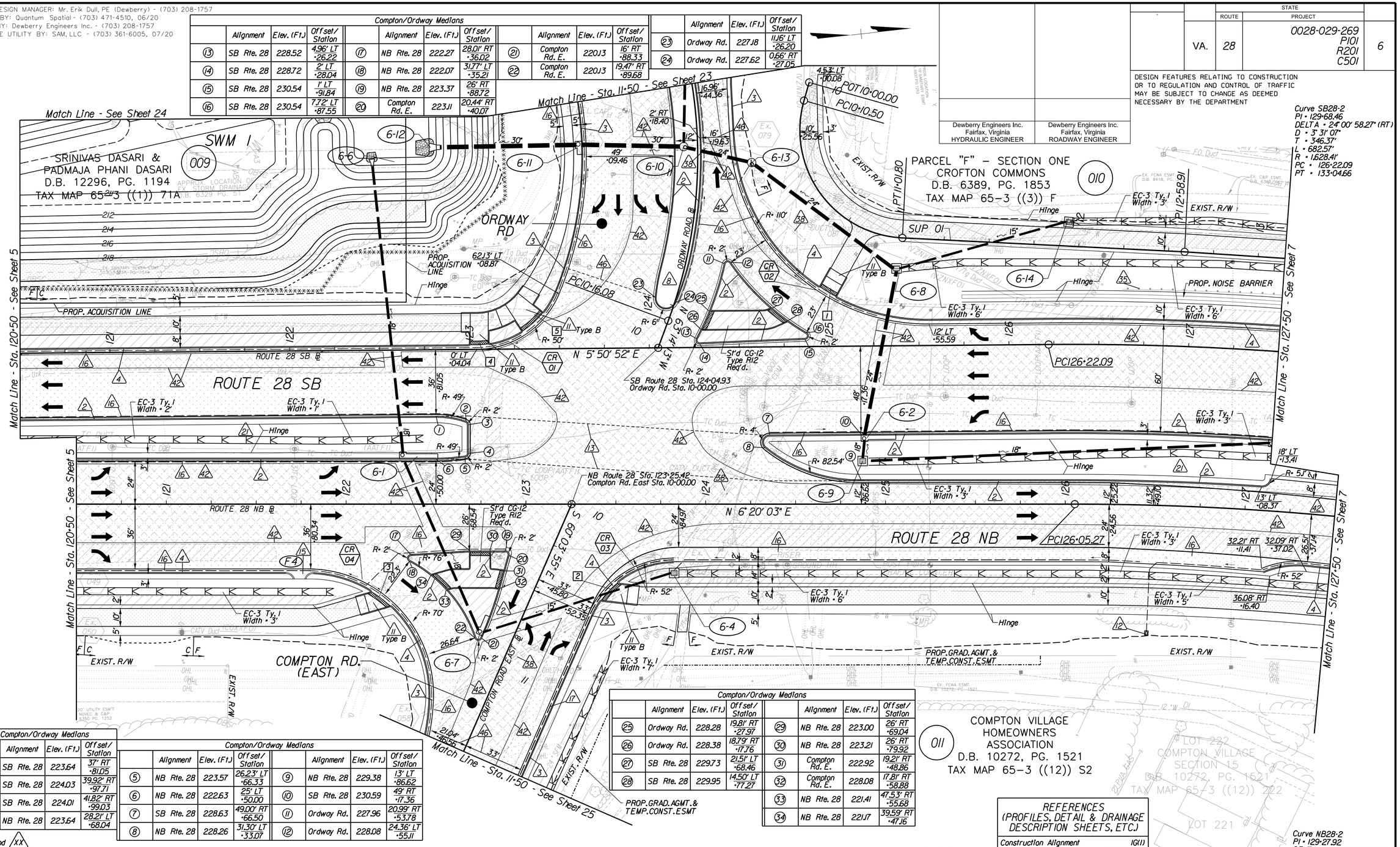
	Alignment	Elev. (Ft.)	Offset/ Station
(23)	Ordway Rd.	227.18	11.16' LT ·26.20
(24)	Ordway Rd.	227.62	0.66' RT ·27.05

		STATE	
	ROUTE	PROJECT	
VA.	28	0028-029-269 P101 R201 C501	6

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

Curve SB28-2
PI • 129+68.46
DELTA • 24° 00' 58.27" (RT)
D • 3° 31' 07"
T • 346.37'
L • 682.57'
R • 1628.41'
PC • 126+22.09
PT • 133+04.66



Compton/Ordway Medians											
	Alignment	Elev. (Ft.)	Offset/ Station		Alignment	Elev. (Ft.)	Offset/ Station		Alignment	Elev. (Ft.)	Offset/ Station
(1)	SB Rte. 28	223.64	37' RT ·81.05	(5)	NB Rte. 28	223.57	26.23' LT ·66.33	(9)	NB Rte. 28	229.38	13' LT ·86.62
(2)	SB Rte. 28	224.03	39.92' RT ·97.71	(6)	NB Rte. 28	222.63	25' LT ·50.00	(10)	SB Rte. 28	230.59	49' RT ·17.36
(3)	SB Rte. 28	224.01	41.82' RT ·99.03	(7)	SB Rte. 28	228.63	49.00' RT ·66.50	(11)	Ordway Rd.	227.96	20.99' RT ·53.78
(4)	NB Rte. 28	223.64	28.21' LT ·68.04	(8)	NB Rte. 28	228.26	31.30' LT ·33.07	(12)	Ordway Rd.	228.08	24.36' LT ·55.11

Compton/Ordway Medians											
	Alignment	Elev. (Ft.)	Offset/ Station		Alignment	Elev. (Ft.)	Offset/ Station		Alignment	Elev. (Ft.)	Offset/ Station
(25)	Ordway Rd.	228.28	19.81' RT ·27.97	(29)	NB Rte. 28	223.00	26' RT ·69.04				
(26)	Ordway Rd.	228.38	18.79' RT ·17.76	(30)	NB Rte. 28	223.21	26' RT ·79.92				
(27)	SB Rte. 28	229.73	21.51' LT ·68.46	(31)	Compton Rd. E.	222.92	19.21' RT ·48.86				
(28)	SB Rte. 28	229.95	14.50' LT ·77.27	(32)	Compton Rd. E.	228.08	17.81' RT ·58.88				
				(33)	NB Rte. 28	221.41	47.53' RT ·55.68				
				(34)	NB Rte. 28	221.17	39.59' RT ·47.16				

COMPTON VILLAGE HOMEOWNERS ASSOCIATION
D.B. 10272, PG. 1521
TAX MAP 65-3 ((12)) S2
011

LOT 222 COMPTON VILLAGE SECTION 15 D.B. 10272, PG. 1521 TAX MAP 65-3 ((12)) 222
LOT 221
LOT 220

Key Legend (XX)

1 6" Curb, Std. CG-2 Req'd.
2 4" Curb, Std. CG-3 Req'd.
3 6" Curb and Gutter, Std. CG-6 Req'd.
4 4" Curb and Gutter, Std. CG-7 Req'd.
5 Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.
6 Not Used
7 Conc. Raised Median, Std. MS-1A (6" Curb)
8 Grass Raised Median, Std. MS-2 (6" Curb)
9 Entrance Gutter, Std. CG-9D Req'd.
10 Entrance, Std. CG-11 Req'd.
11 Curb Ramp, Std. CG-12 Req'd.
12 Underdrain Endwall, Std. EW-12 Req'd.
13 Shoulder Break Over Line
14 Groundwater Underdrain, Std. UD-1 Req'd.
15 Curb-Cut Opening, Drainage Flume
16 Pavement Underdrain, Std. UD-4 Req'd.
17 Pavement Underdrain, Mod. 6" UD-4 Req'd.
18 Crossdrain, Std. CD-1 Req'd.
19 Crossdrain, Std. CD-2 Req'd.
20 Standard Fence, Std. FE-CL Req'd.
21 Grass Raised Median, Std. MS-2 (4" Curb)
22 Chain Link Fence, Std. FE-CL Req'd.
23 Guardrail, Std. GR-MGS1 Req'd.
24 Guardrail, Std. GR-MGS1A Req'd.
25 Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.
26 Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.
27 Guardrail, Std. GR-10, Type I Req'd.
28 Guardrail, Std. GR-10, Type II Req'd.
29 Guardrail, Std. GR-10, Type III Req'd.
30 Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.
31 Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.
32 Guardrail Transition, Std. GR-MGS4 Req'd.
33 End CG-9D Entrance Type
34 Handrail, Std. HR-1 Type III Req'd.
35 Remove Exist. Guardrail
36 Remove Exist. Fence
37 Remove Exist. Structure
38 Remove Or Abandon and Fill Exist. Pipe
39 Remove Exist. Pole
40 Ad Just Exist. Structure
41 Clean Out Exist. Structure
42 Full Depth Sawcut
43 Clean Out Exist. Pipe
44 10' Gutter Run Out
45 Median Barrier, Std. MB-8A Req'd.
46 Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

(X) Curb Ramp See Sheet 2A(8)-(9)
(CR XX) Curb Return See Sheet 2A(7)
C Denotes Construction Limits In Cuts
F Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(1)
Typical Sections	2A(1), 2A(3)
E&S Phase 1B(1)/2	2F(2)
E&S Phase 3	2G(2)
Route 28 Profile	6A
Ordway Rd. Profile	23A
Compton Rd. East Profile	25A
SUP-1 Profile	32(3)
Drainage Descriptions	33

SCALE 0 25' 50'

2/11/2021
10:35:39 AM

d108720-06A.dgn
Plotted By: cjennings

Dewberry

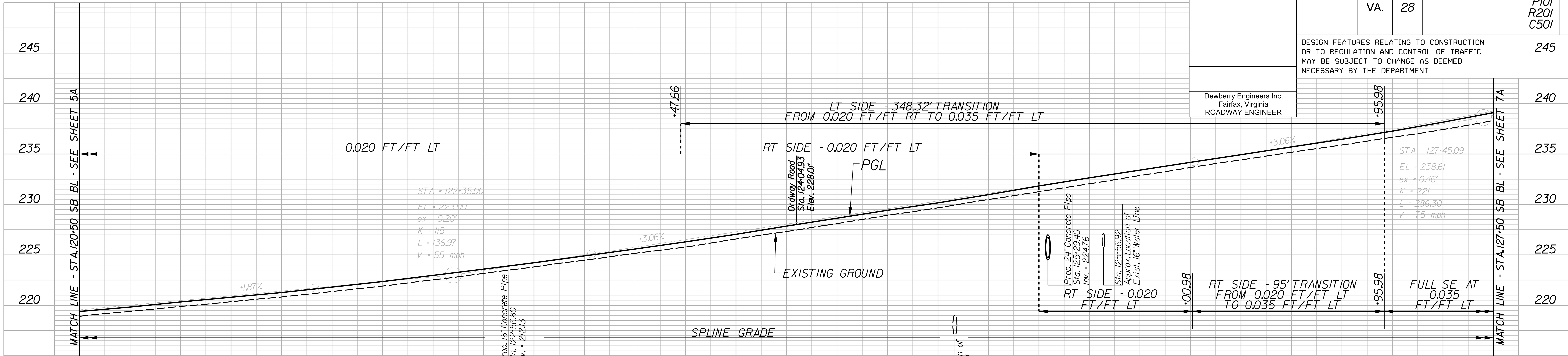
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	6A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER

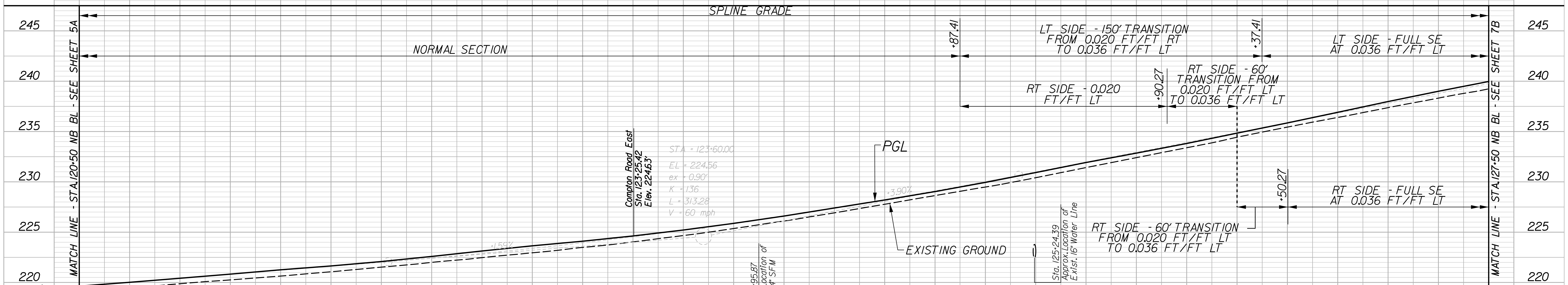
SB ROUTE 28



SB ROUTE 28

Station	OUTSIDE EP (XX' OFFSET)	PGL	EXIST.	MEDIAN EP (XX' OFFSET)
120+50	219.39 (0.00')	219.39	218.91	218.65 (37.00')
120+75	219.83 (0.00')	219.83	219.40	219.09 (37.00')
121+00	220.34 (0.00')	220.34	219.89	219.60 (37.00')
121+25	220.80 (0.00')	220.80	220.36	220.06 (37.00')
121+50	221.27 (0.00')	221.27	220.83	220.53 (37.00')
121+75	221.81 (0.00')	221.81	221.37	221.07 (37.00')
122+00	222.36 (0.00')	222.36	221.91	221.62 (37.00')
122+25	222.97 (0.00')	222.97	222.53	222.23 (37.00')
122+50	223.59 (0.00')	223.59	223.16	222.85 (37.00')
122+75	224.22 (0.00')	224.22	223.81	223.48 (37.00')
123+00	224.90 (0.00')	224.90	224.48	
123+25		225.58	225.16	
123+50		226.29	225.78	
123+75		227.04	226.57	
124+00		227.85	227.32	
124+25		228.64	228.10	
124+50		229.42	228.92	
124+75		230.16	229.67	229.18 (49.00')
125+00		230.97	230.49	229.99 (49.00')
125+25		231.83	231.26	230.85 (49.00')
125+50	232.79 (12.14')	232.64	232.04	231.66 (49.00')
125+75	233.59 (12.00')	233.40	232.87	232.42 (49.00')
126+00	234.41 (12.00')	234.17	233.66	233.20 (49.00')
126+25	235.22 (12.00')	234.93	234.41	233.76 (49.00')
126+50	236.03 (12.00')	235.70	235.17	234.34 (49.00')
126+75	236.84 (12.00')	236.46	235.90	234.91 (49.00')
127+00	237.69 (12.00')	237.27	236.66	235.56 (49.00')
127+25	238.57 (12.00')	238.15	237.42	236.44 (49.00')
127+50	239.52 (12.00')	239.10	238.32	237.39 (49.00')

NB ROUTE 28



NB ROUTE 28

Station	MEDIAN EP (XX' OFFSET)	PGL	EXIST.	OUTSIDE EP (XX' OFFSET)
120+50	219.14 (25.00')	219.64	219.00	218.92 (36.00')
120+75	219.52 (25.00')	220.02	219.45	219.30 (36.00')
121+00	219.92 (25.00')	220.42	219.88	219.70 (36.00')
121+25	220.33 (25.00')	220.83	220.26	220.11 (36.00')
121+50	220.76 (25.00')	221.26	220.64	220.54 (36.00')
121+75	221.14 (25.00')	221.64	221.07	220.92 (36.00')
122+00	221.58 (25.00')	222.08	221.52	221.30 (38.81')
122+25	222.09 (25.00')	222.59	222.00	
122+50	222.63 (25.00')	223.13	222.47	222.63 (25.00')
122+75		223.64	222.95	223.14 (25.00')
123+00		224.10	223.48	
123+25		224.62	224.03	
123+50		225.21	224.66	
123+75		225.87	225.36	
124+00		226.60	226.11	226.12 (24.00')
124+25		227.40	226.92	226.92 (24.00')
124+50		228.20	227.77	227.72 (24.00')
124+75		229.04	228.64	228.56 (24.00')
125+00	229.74 (13.00')	229.94	229.49	229.46 (24.00')
125+25	230.84 (13.00')	230.92	230.41	230.44 (24.00')
125+50	231.96 (13.00')	231.92	231.42	231.44 (24.00')
125+75	233.02 (13.00')	232.85	232.40	232.37 (24.00')
126+00	234.10 (13.00')	233.81	233.39	233.27 (24.00')
126+25	235.25 (13.00')	234.84	234.43	234.14 (24.00')
126+50	236.32 (13.00')	235.85	235.44	234.96 (24.71')
126+75	237.38 (13.00')	236.91	236.39	236.00 (25.23')
127+00	238.45 (13.00')	237.98	237.37	237.05 (25.74')
127+25	239.35 (9.75')	239.00	238.32	238.05 (26.26')
127+50	240.30 (9.23')	239.97	239.24	239.01 (26.78')

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT	SHEET NO.
0028-029-269	6A

2/11/2021
10:36:49 AM

dl08720-07.dgn
Plotted By: cJennings

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated: 6-17-2020

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

		STATE	
	ROUTE	PROJECT	
VA.	28	0028-029-269 P101 R201 C501	7

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

PARCEL "F"
SECTION ONE
CROFTON COMMONS
D.B. 6389, PG. 1853
TAX MAP 65-3 ((3)) F
010

PARCEL "C"
SECTION TWO
CROFTON COMMONS
D.B. 6281, PG. 844
TAX MAP 65-3 ((3)) C
012

PARCEL "G"
SECTION 4
CROFTON COMMONS
D.B. 6389, PG. 1832
TAX MAP 65-3 ((3)) G
013

COMPTON VILLAGE HOMEOWNERS ASSOCIATION
D.B. 10272, PG. 1521
TAX MAP 65-3 ((12)) S2
011

THE SALVATION ARMY
D.B. 25792, PG. 1176
TAX MAP 65-3 ((1)) 40A
015

Match Line - Sta. 127+50 - See Sheet 6

Match Line - Sta. 134+50 - See Sheet 8

ROUTE 28 SB

ROUTE 28 NB

N 29° 51' 50" E

N 29° 51' 08" E

PC 126+09.26

PI 129+82.83

PT 133+04.66

PC 126+22.09

PI 129+68.46

PT 132+41.49

PC 125+26.30

PT 114+60.81

PT 118+46.23

SUP 01

Curve SB28-2
PI = 129+68.46
DELTA = 24° 00' 58.27" (RT)
D = 3° 31' 07"
T = 346.37'
L = 682.57'
R = 1,628.41'
PC = 126+22.09
PT = 133+04.66

Curve NB28-2
PI = 129+27.92
DELTA = 23° 31' 04.64" (RT)
D = 3° 41' 47"
T = 322.65'
L = 636.22'
R = 1,550.00'
PC = 126+05.27
PT = 132+41.49

Key Legend

1	6" Curb, Std. CG-2 Req'd.	11	Curb Ramp, Std. CG-12 Req'd.	23	Guardrail, Std. GR-MGSI Req'd.	35	Remove Exist. Guardrail
2	4" Curb, Std. CG-3 Req'd.	12	Underdrain Endwall, Std. EW-12 Req'd.	24	Guardrail, Std. GR-MGSIA Req'd.	36	Remove Exist. Fence
3	6" Curb and Gutter, Std. CG-6 Req'd.	13	Shoulder Break Over Line	25	Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.	37	Remove Exist. Structure
4	4" Curb and Gutter, Std. CG-7 Req'd.	14	Groundwater Underdrain, Std. UD-1 Req'd.	26	Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.	38	Remove Or Abandon and Fill Exist. Pipe
5	Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.	15	Curb-Cut Opening, Drainage Flume	27	Guardrail, Std. GR-10, Type I Req'd.	39	Remove Exist. Pole
6	Not Used	16	Pavement Underdrain, Std. UD-4 Req'd.	28	Guardrail, Std. GR-10, Type II Req'd.	40	Ad Just Exist. Structure
7	Conc. Raised Median, Std. MS-1A (6" Curb)	17	Pavement Underdrain, Mod. 6" UD-4 Req'd.	29	Guardrail, Std. GR-10, Type III Req'd.	41	Clean Out Exist. Structure
8	Grass Raised Median, Std. MS-2 (6" Curb)	18	Crossdrain, Std. CD-1 Req'd.	30	Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.	42	Full Depth Sawcut
9	Entrance Gutter, Std. CG-9D Req'd.	19	Crossdrain, Std. CD-2 Req'd.	31	Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.	43	Clean Out Exist. Pipe
10	Entrance, Std. CG-11 Req'd.	20	Standard Fence, Std. FE-CL Req'd.	32	Guardrail Transition, Std. GR-MGS4 Req'd.	44	10' Gutter Run Out
		21	Grass Raised Median, Std. MS-2 (4" Curb)	33	End CG-9D Entrance Type	45	Median Barrier, Std. MB-8A Req'd.
		22	Chain Link Fence, Std. FE-CL Req'd.	34	Handrail, Std. HR-1 Type III Req'd.	46	Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

X — Curb Ramp See Sheet 2A(8)-(9)
CR XX — Curb Return See Sheet 2A(7)
C — Denotes Construction Limits In Cuts
F — Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(1)-1G(2)
Typical Sections	2A(1)
E&S Phase 1B(1)/2	2F(3)
E&S Phase 3	2G(3)
Route 28 SB Profile	7A
Route 28 NB Profile	7B
SUP-1 Profile	32(3)
Drainage Descriptions	33

SCALE 0 25' 50'

0028-029-269	7

2/11/2021
10:37:57 AM

d108720-07A.dgn
Plotted By: cjennings

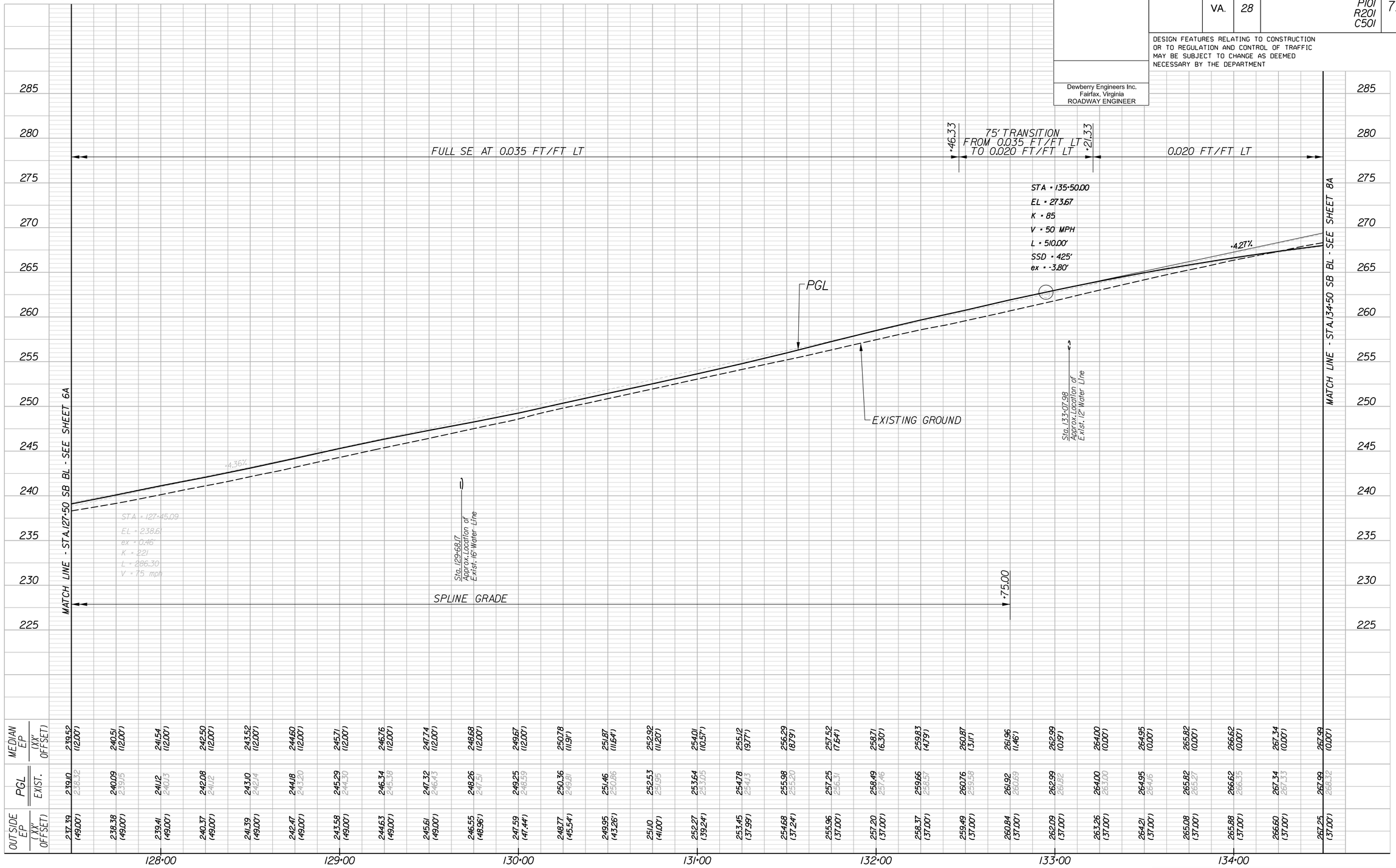
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SB ROUTE 28

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	7A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



OUTSIDE EP (XX' OFFSET)	PGL EXIST.	MEDIAN EP (XX' OFFSET)
237.39 (49.00')	239.10 238.32	239.52 (12.00')
238.38 (49.00')	240.09 239.05	240.51 (12.00')
239.41 (49.00')	241.12 240.03	241.54 (12.00')
240.37 (49.00')	242.08 241.12	242.50 (12.00')
241.39 (49.00')	243.10 242.14	243.52 (12.00')
242.47 (49.00')	244.18 243.20	244.60 (12.00')
243.58 (49.00')	245.29 244.30	245.71 (12.00')
244.63 (49.00')	246.34 245.38	246.76 (12.00')
245.61 (49.00')	247.32 246.43	247.74 (12.00')
246.55 (48.96')	248.26 247.51	248.68 (12.00')
247.59 (47.44')	249.25 248.59	249.67 (12.00')
248.77 (45.54')	250.36 249.81	250.78 (11.91')
249.95 (43.26')	251.46 250.86	251.87 (11.64')
251.10 (41.00')	252.53 251.95	252.92 (11.20')
252.27 (39.24')	253.64 253.05	254.01 (10.57')
253.45 (37.99')	254.78 254.13	255.12 (9.77')
254.68 (37.24')	255.98 255.20	256.29 (8.79')
255.96 (37.00')	257.25 256.31	257.52 (7.64')
257.20 (37.00')	258.49 257.46	258.71 (6.30')
258.37 (37.00')	259.66 258.57	259.83 (4.79')
259.49 (37.00')	260.76 259.58	260.87 (3.11')
260.84 (37.00')	261.92 260.69	261.96 (1.46')
262.09 (37.00')	262.99 261.82	262.99 (0.19')
263.26 (37.00')	264.00 263.00	264.00 (0.00')
264.21 (37.00')	264.95 263.96	264.95 (0.00')
265.08 (37.00')	265.82 265.27	265.82 (0.00')
265.88 (37.00')	266.62 266.35	266.62 (0.00')
266.60 (37.00')	267.34 267.33	267.34 (0.00')
267.25 (37.00')	267.99 268.32	267.99 (0.00')

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT	SHEET NO.
0028-029-269	7A

2/11/2021
10:39:03 AM

d108720-07B.dgn
Plotted By: cjennings

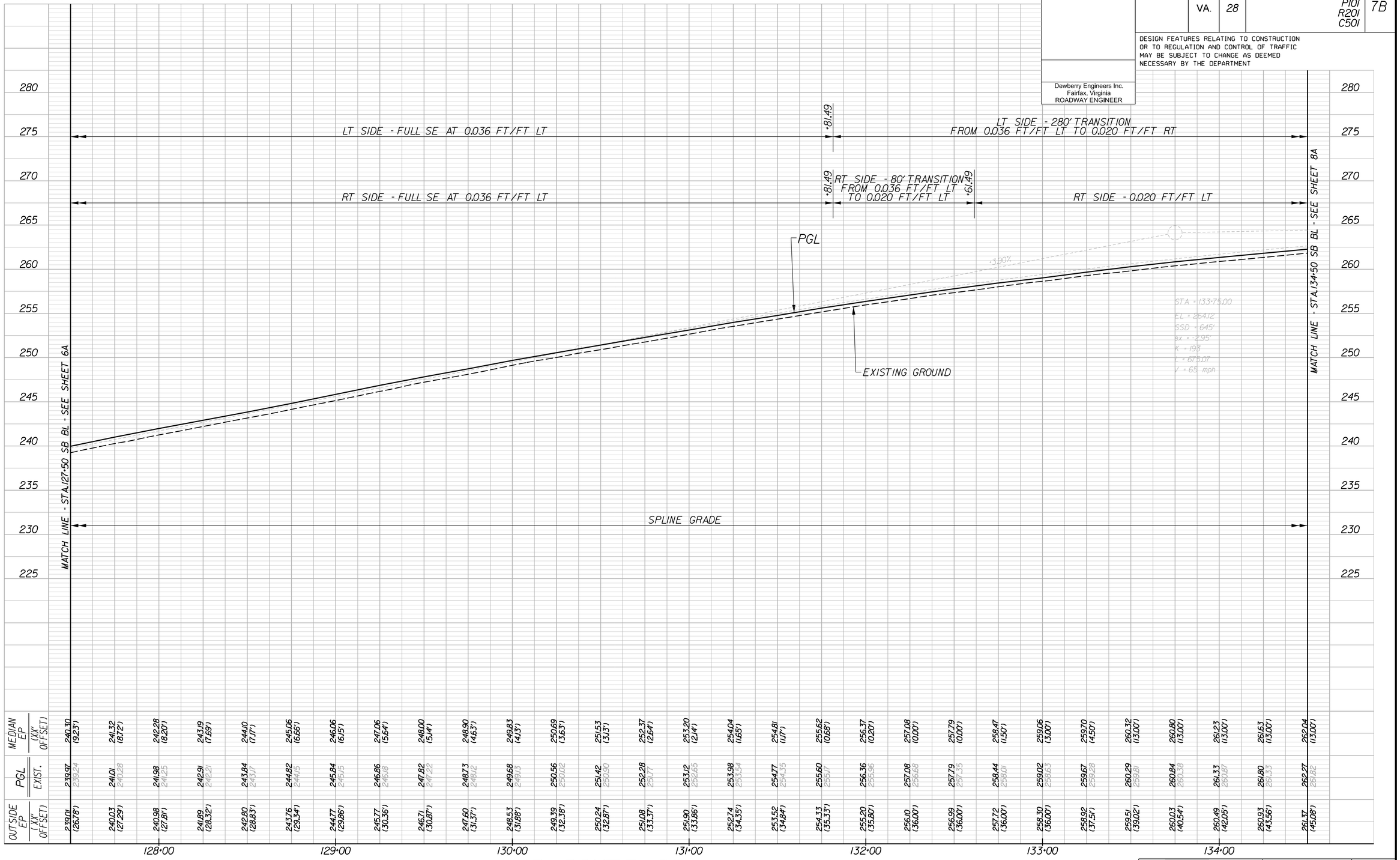
Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	7B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



OUTSIDE EP (XX' OFFSET)	PGL / EXIST.	MEDIAN EP (XX' OFFSET)
239.01 (26.78')	239.97 239.24	240.30 (9.23')
240.03 (27.29')	241.01 240.28	241.32 (8.72')
240.98 (27.81')	241.98 241.25	242.28 (8.20')
241.89 (28.32')	242.91 242.21	243.19 (7.69')
242.80 (28.83')	243.84 243.17	244.10 (7.17')
243.76 (29.34')	244.82 244.15	245.06 (6.66')
244.77 (29.86')	245.84 245.15	246.06 (6.15')
245.77 (30.36')	246.86 246.18	247.06 (5.64')
246.71 (30.87')	247.82 247.22	248.00 (5.14')
247.60 (31.37')	248.73 248.12	248.90 (4.63')
248.53 (31.88')	249.68 249.13	249.83 (4.13')
249.39 (32.38')	250.56 250.02	250.69 (3.63')
250.24 (32.87')	251.42 250.90	251.53 (3.13')
251.08 (33.37')	252.28 251.77	252.37 (2.64')
251.90 (33.86')	253.12 252.65	253.20 (2.14')
252.74 (34.35')	253.98 253.54	254.04 (1.65')
253.52 (34.84')	254.77 254.35	254.81 (1.17')
254.33 (35.33')	255.60 255.17	255.62 (0.68')
255.20 (35.80')	256.36 255.96	256.37 (0.20')
256.10 (36.00')	257.08 256.68	257.08 (0.00')
256.99 (36.00')	257.79 257.45	257.79 (0.00')
257.72 (36.00')	258.44 258.01	258.47 (1.50')
258.30 (36.00')	259.02 258.63	259.06 (3.00')
258.92 (37.51')	259.67 259.28	259.70 (4.50')
259.51 (39.02')	260.29 259.81	260.32 (13.00')
260.03 (40.54')	260.84 260.38	260.80 (13.00')
260.49 (42.05')	261.33 260.87	261.23 (13.00')
260.93 (43.56')	261.80 261.33	261.63 (13.00')
261.37 (45.08')	262.27 261.82	262.04 (13.00')

NB ROUTE 28

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT 0028-029-269
SHEET NO. 7B

2/11/2021
10:40:19 AM

d108720-08.dgn
Plotted By: cJennings

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated: 6-17-2020

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

		STATE	
	ROUTE	PROJECT	
VA.	28	0028-029-269 P101 R201 C501	8

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
HYDRAULIC ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER

PARCEL "G"
SECTION 4
CROFTON COMMONS
D.B. 6389, PG. 1832
TAX MAP 65-3 ((3)) G
013

PHILIP E. COX AND
ALISON L. COX
D.B. 9632, PG. 1431
TAX MAP 65-3 ((1)) 26A
016

W. LOUIS TERRELL AND
CAROLE W. TERRELL
D.B. 23884, PG. 1501
TAX MAP 65-3 ((1)) 49A
014

THE SALVATION ARMY
D.B. 25792, PG. 1176
TAX MAP 65-3 ((1)) 40A
015

COMPTON VILLAGE
HOMEOWNERS ASSOCIATION
D.B. 8451, PG. 408
TAX MAP 65-3 ((12)) (5) C
019

ROUTE 28 SB
ROUTE 28 NB
BRADENTON DR
END CONSTRUCTION BRADENTON DR. STA. 11+89.15

Match Line - Sta. 134+50 - See Sheet 7
Match Line - Sta. 141+00 - See Sheet 9
Match Line - Sta. 134+50 - See Sheet 8
Match Line - Sta. 141+00 - See Sheet 10

Bradenton Dr. Intersection Medians			
	Alignment	Elev. (Ft.)	Offset / Station
①	SB Rte. 28	269.19	37' RT 67.65
②	NB Rte. 28	265.16	13' LT 00.00
③	SB Rte. 28	266.63	63.39' RT 74.98
④	NB Rte. 28	266.36	14.58' LT 06.38
⑤	NB Rte. 28	265.80	8' LT 23.28
⑥	SB Rte. 28	266.66	49' RT 26.66
⑦	Bradenton Dr.	264.11	8.14' RT 40.18
⑧	Bradenton Dr.	264.12	7.66' LT 40.26
⑨	NB Rte. 28	267.18	31.77' LT 18.77

Key Legend (XX)

1 6" Curb, Std. CG-2 Req'd.
2 4" Curb, Std. CG-3 Req'd.
3 6" Curb and Gutter, Std. CG-6 Req'd.
4 4" Curb and Gutter, Std. CG-7 Req'd.
5 Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.
6 Not Used
7 Conc. Raised Median, Std. MS-1A (6" Curb)
8 Grass Raised Median, Std. MS-2 (6" Curb)
9 Entrance Gutter, Std. CG-9D Req'd.
10 Entrance, Std. CG-11 Req'd.
11 Curb Ramp, Std. CG-12 Req'd.
12 Underdrain Endwall, Std. EW-12 Req'd.
13 Shoulder Break Over Line
14 Groundwater Underdrain, Std. UD-1 Req'd.
15 Curb-Cut Opening, Drainage Flume
16 Pavement Underdrain, Std. UD-4 Req'd.
17 Pavement Underdrain, Mod. 6" UD-4 Req'd.
18 Crossdrain, Std. CD-1 Req'd.
19 Crossdrain, Std. CD-2 Req'd.
20 Standard Fence, Std. FE-CL Req'd.
21 Grass Raised Median, Std. MS-2 (4" Curb)
22 Chain Link Fence, Std. FE-CL Req'd.
23 Guardrail, Std. GR-MGS1 Req'd.
24 Guardrail, Std. GR-MGS1A Req'd.
25 Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.
26 Guardrail Trailing End Acharage, Std. GR-MGS3 Req'd.
27 Guardrail, Std. GR-10, Type I Req'd.
28 Guardrail, Std. GR-10, Type II Req'd.
29 Guardrail, Std. GR-10, Type III Req'd.
30 Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.
31 Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.
32 Guardrail Transition, Std. GR-MGS4 Req'd.
33 End CG-9D Entrance Type
34 Handrail, Std. HR-1 Type III Req'd.
35 Remove Exist. Guardrail
36 Remove Exist. Fence
37 Remove Exist. Structure
38 Remove Or Abandon and Fill Exist. Pipe
39 Remove Exist. Pole
40 Adjust Exist. Structure
41 Clean Out Exist. Structure
42 Full Depth Sawcut
43 Clean Out Exist. Pipe
44 10' Gutter Run Out
45 Median Barrier, Std. MB-8A Req'd.
46 Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

(X) Curb Ramp See Sheet 2A(8)-(9)
(CR XX) Curb Return See Sheet 2A(7)
C Denotes Construction Limits In Cuts
F Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(2)
Typical Sections	2A(1), 2A(6)
E&S Phase 1B(1)/2	2F(3)-2F(4)
E&S Phase 3	2G(3)-2G(4)
Route 28 Profile	8A
Bradenton Dr. Profile	8B
Entrance K Profile	32(2)
SUP-1 Profile	32(3)
Drainage Descriptions	33

SCALE 0 25' 50'

2/11/2021
10:41:33 AM

d108720-08A.dgn
Plotted By: cjennings

Dewberry

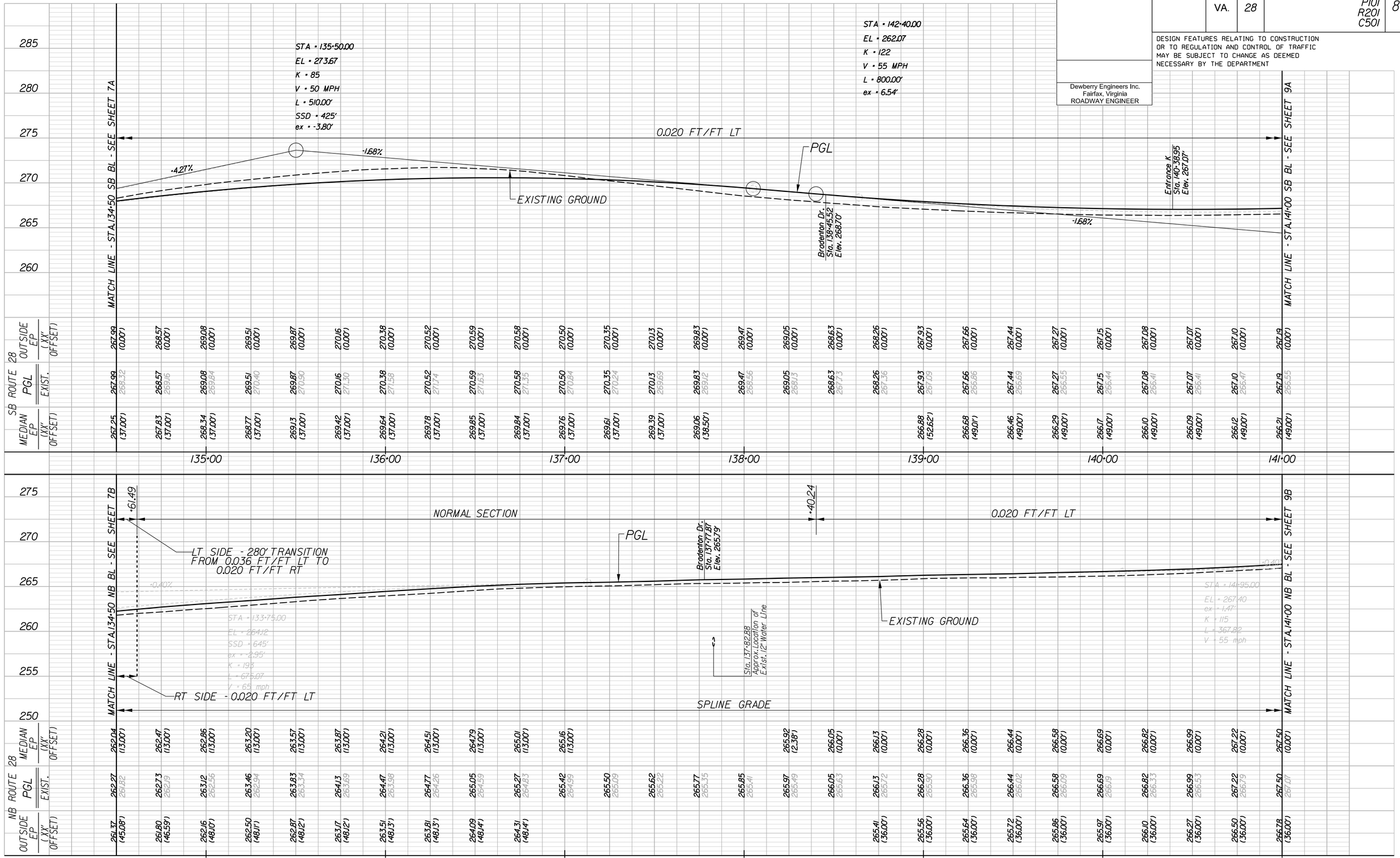
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SB ROUTE 28

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	8A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



NB ROUTE 28

	135+00	136+00	137+00	138+00	139+00	140+00	141+00
SB ROUTE 28 MEDIAN EP (XX' OFFSET)	267.25 (37.00')	267.83 (37.00')	268.34 (37.00')	268.77 (37.00')	269.13 (37.00')	269.42 (37.00')	269.64 (37.00')
	269.64 (37.00')	269.78 (37.00')	269.85 (37.00')	269.84 (37.00')	269.76 (37.00')	269.61 (37.00')	269.39 (37.00')
	269.06 (38.50')	266.88 (52.62')	266.68 (49.01')	266.46 (49.00')	266.29 (49.00')	266.17 (49.00')	266.10 (49.00')
	266.09 (49.00')	266.12 (49.00')	266.21 (49.00')				
SB ROUTE 28 PGL EXIST.	267.99 266.32	268.57 269.16	269.08 269.84	269.51 270.40	269.87 270.30	270.16 271.30	270.38 271.58
	270.52 271.74	270.59 271.65	270.58 271.35	270.50 270.84	270.35 270.24	270.13 269.65	269.83 269.12
	269.47 268.56	269.05 268.15	268.63 267.73	268.26 267.36	267.93 267.09	267.66 266.86	267.44 266.65
	267.27 266.55	267.15 266.44	267.08 266.34	267.07 266.41	267.10 266.47	267.19 266.55	
SB ROUTE 28 OUTSIDE EP (XX' OFFSET)	267.99 (0.00')	268.57 (0.00')	269.08 (0.00')	269.51 (0.00')	269.87 (0.00')	270.16 (0.00')	270.38 (0.00')
	270.52 (0.00')	270.59 (0.00')	270.58 (0.00')	270.50 (0.00')	270.35 (0.00')	270.13 (0.00')	269.83 (0.00')
	269.47 (0.00')	269.05 (0.00')	268.63 (0.00')	268.26 (0.00')	267.93 (0.00')	267.66 (0.00')	267.44 (0.00')
	267.27 (0.00')	267.15 (0.00')	267.08 (0.00')	267.07 (0.00')	267.10 (0.00')	267.19 (0.00')	

NB ROUTE 28

	135+00	136+00	137+00	138+00	139+00	140+00	141+00
NB ROUTE 28 MEDIAN EP (XX' OFFSET)	262.04 (13.00')	262.47 (13.00')	262.86 (13.00')	263.20 (13.00')	263.57 (13.00')	263.87 (13.00')	264.21 (13.00')
	264.51 (13.00')	264.79 (13.00')	265.01 (13.00')	265.16 (13.00')	265.92 (2.38')	266.05 (0.00')	266.13 (0.00')
	266.28 (0.00')	266.36 (0.00')	266.44 (0.00')	266.58 (0.00')	266.69 (0.00')	266.82 (0.00')	266.99 (0.00')
	267.22 (0.00')	267.50 (0.00')					
NB ROUTE 28 PGL EXIST.	262.27 261.82	262.73 262.19	263.12 262.56	263.46 262.94	263.83 263.34	264.13 263.69	264.47 263.98
	264.77 264.26	265.05 264.59	265.27 264.83	265.42 264.99	265.50 265.09	265.62 265.22	265.77 265.35
	265.85 265.41	265.97 265.49	266.05 265.63	266.13 265.72	266.28 265.90	266.36 265.98	266.44 266.02
	266.58 266.09	266.69 266.19	266.82 266.33	266.99 266.53	267.22 266.79	267.50 267.07	
NB ROUTE 28 OUTSIDE EP (XX' OFFSET)	261.37 (45.08')	261.80 (46.59')	262.16 (48.10')	262.50 (48.11')	262.87 (48.12')	263.17 (48.12')	263.51 (48.13')
	263.81 (48.13')	264.09 (48.14')	264.31 (48.14')				
	265.41 (36.00')	265.56 (36.00')	265.64 (36.00')	265.72 (36.00')	265.86 (36.00')	265.97 (36.00')	266.10 (36.00')
	266.27 (36.00')	266.50 (36.00')	266.78 (36.00')				

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT	SHEET NO.
0028-029-269	8A

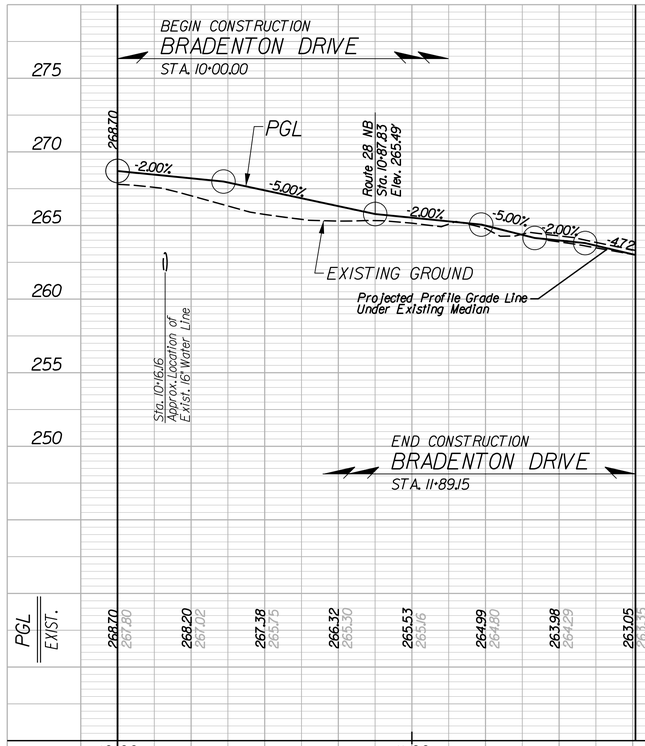
2/11/2021
10:42:43 AM

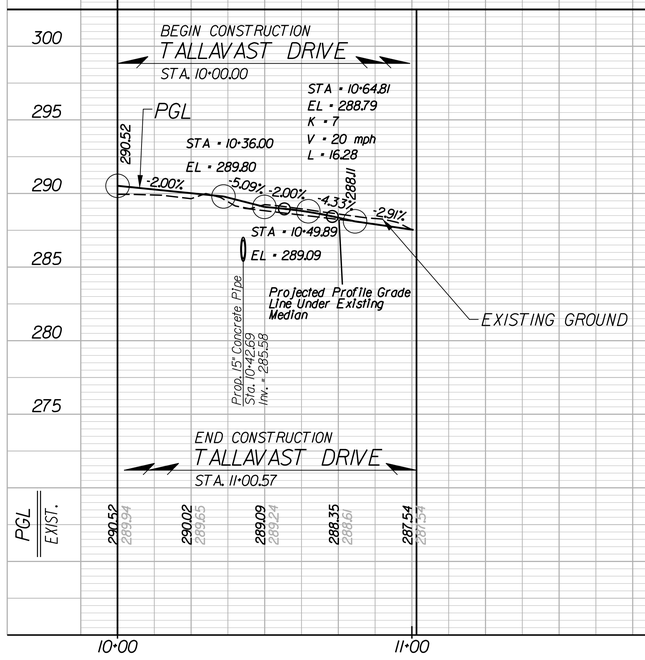
d10B720-08B.dgn
Plotted By: cjennings

Dewberry

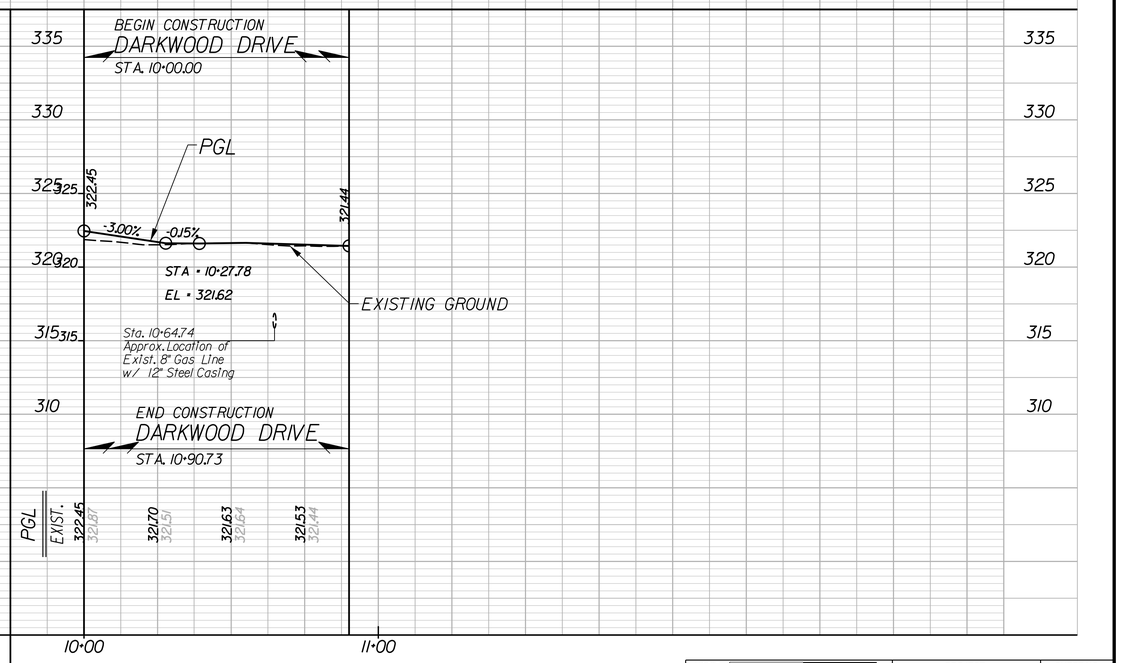
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

BRADENTON DRIVE





TALLAVAST DRIVE



DARKWOOD DRIVE

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	8B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT	SHEET NO.
0028-029-269	8B

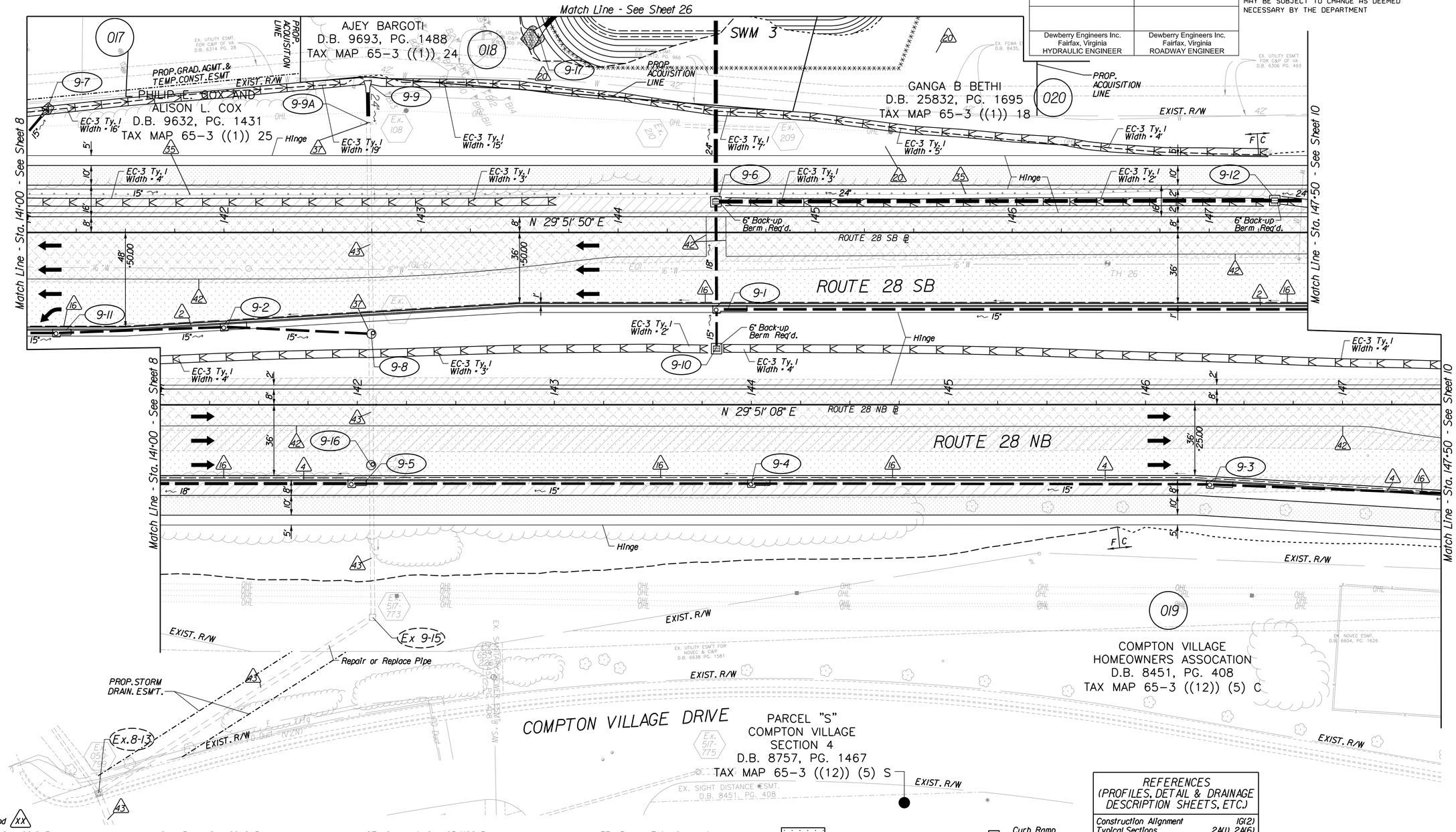
Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

	STATE ROUTE	STATE PROJECT	
VA.	28	0028-029-269 P101 R201 C501	9

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Key Legend (XX)

1	6" Curb, Std. CG-2 Req'd.	11	Curb Ramp, Std. CG-12 Req'd.	23	Guardrail, Std. GR-MGS1 Req'd.	35	Remove Exist. Guardrail
2	4" Curb, Std. CG-3 Req'd.	12	Underdrain Endwall, Std. EW-12 Req'd.	24	Guardrail, Std. GR-MGS1A Req'd.	36	Remove Exist. Fence
3	6" Curb and Gutter, Std. CG-6 Req'd.	13	Shoulder Break Over Line	25	Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.	37	Remove Exist. Structure
4	4" Curb and Gutter, Std. CG-7 Req'd.	14	Groundwater Underdrain, Std. UD-1 Req'd.	26	Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.	38	Remove Or Abandon and Fill Exist. Pipe
5	Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.	15	Curb-Cut Opening, Drainage Flume	27	Guardrail, Std. GR-10, Type I Req'd.	39	Remove Exist. Pole
6	Not Used	16	Pavement Underdrain, Std. UD-4 Req'd.	28	Guardrail, Std. GR-10, Type II Req'd.	40	Adjust Exist. Structure
7	Conc. Raised Median, Std. MS-1A (6" Curb)	17	Pavement Underdrain, Mod. 6" UD-4 Req'd.	29	Guardrail, Std. GR-10, Type III Req'd.	41	Clean Out Exist. Structure
8	Grass Raised Median, Std. MS-2 (6" Curb)	18	Crossdrain, Std. CD-1 Req'd.	30	Fixed Object Att., Std. GR-FOA-2 Ty.1 Req'd.	42	Full Depth Sawcut
9	Entrance Gutter, Std. CG-9D Req'd.	19	Crossdrain, Std. CD-2 Req'd.	31	Fixed Object Att., Std. GR-FOA-2 Ty.2 Req'd.	43	Clean Out Exist. Pipe
10	Entrance, Std. CG-11 Req'd.	20	Standard Fence, Std. FE-CL Req'd.	32	Guardrail Transition, Std. GR-MGS4 Req'd.	44	10' Gutter Run Out
		21	Grass Raised Median, Std. MS-2 (4" Curb)	33	End CG-9D Entrance Type	45	Median Barrier, Std. MB-8A Req'd.
		22	Chain Link Fence, Std. FE-CL Req'd.	34	Handrail, Std. HR-1 Type III Req'd.	46	Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

(X) Curb Ramp See Sheet 2A(8)-(9)
(CR XX) Curb Return See Sheet 2A(7)
C ___ Denotes Construction Limits In Cuts
F ___ Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(2)
Typical Sections	2A(1), 2A(6)
E&S Phase 1B(1)/2	2F(4)
E&S Phase 3	2G(4)
Route 28 SB Profile	9A
Route 28 NB Profile	9B
Drainage Descriptions	33

SCALE 0 25' 50'

2/11/2021
10:45:00 AM

d108720-09Adgn
Plotted By: cjennings

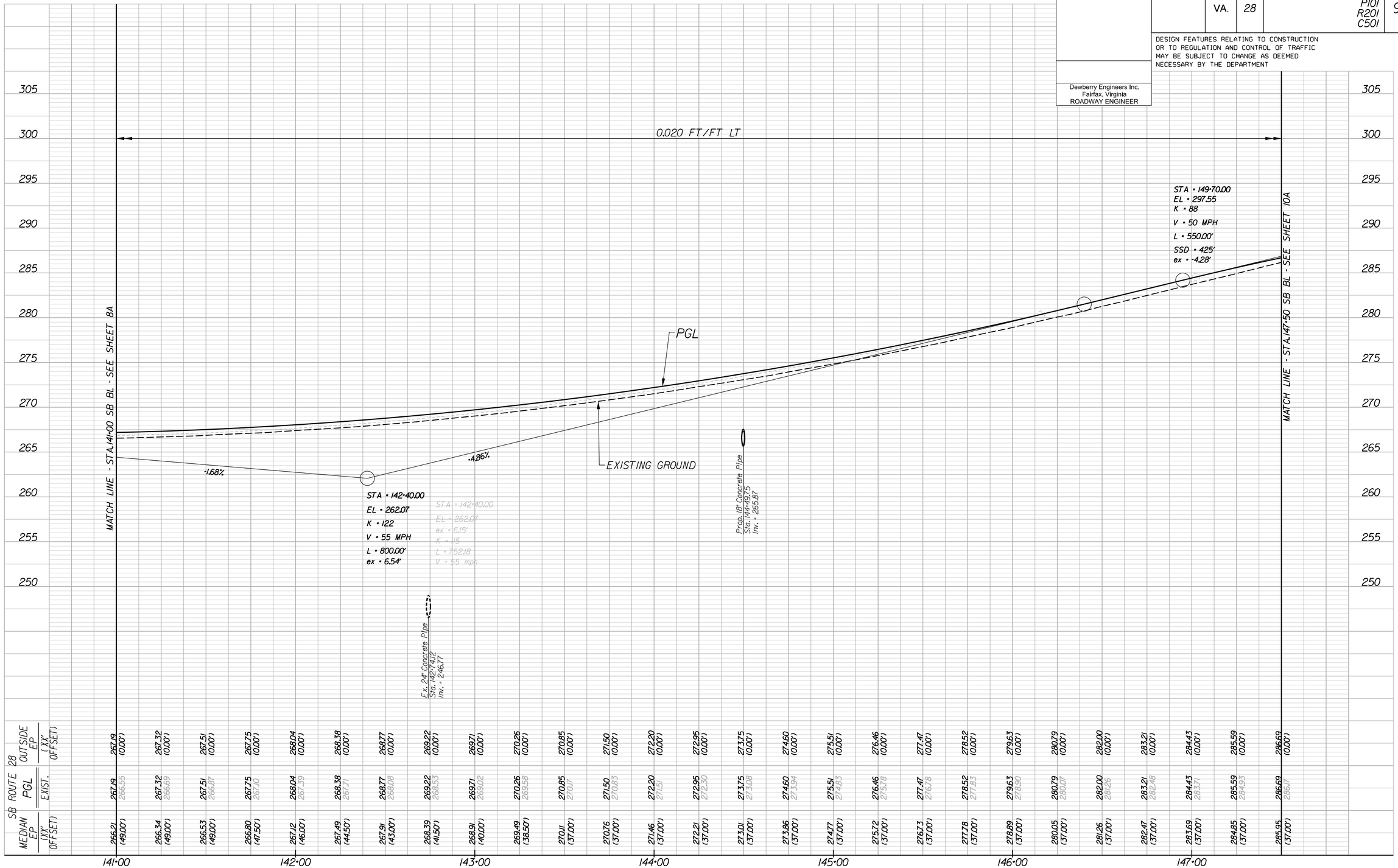
Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	9A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



SB ROUTE 28																														
MEDIAN EP (XX' OFFSET)		266.21 (49.00')	266.34 (49.00')	266.53 (49.00')	266.80 (47.50')	267.12 (46.00')	267.49 (44.50')	267.91 (43.00')	268.39 (41.50')	268.91 (40.00')	269.49 (38.50')	270.11 (37.00')	270.76 (37.00')	271.46 (37.00')	272.21 (37.00')	273.01 (37.00')	273.86 (37.00')	274.77 (37.00')	275.72 (37.00')	276.73 (37.00')	277.78 (37.00')	278.89 (37.00')	280.05 (37.00')	281.26 (37.00')	282.47 (37.00')	283.69 (37.00')	284.85 (37.00')	285.95 (37.00')		
PGL / EXIST.		267.19 266.55	267.32 266.69	267.51 266.87	267.75 267.10	268.04 267.39	268.38 267.71	268.77 268.08	269.22 268.53	269.71 269.02	270.26 269.58	270.85 270.17	271.50 270.83	272.20 271.51	272.95 272.30	273.75 273.08	274.60 273.94	275.51 274.85	276.46 275.78	277.47 276.78	278.52 277.83	279.63 278.90	280.79 280.07	282.00 281.26	283.21 282.48	284.43 283.71	285.59 284.93	286.69 286.17		
OUTSIDE EP (XX' OFFSET)		267.19 (0.00')	267.32 (0.00')	267.51 (0.00')	267.75 (0.00')	268.04 (0.00')	268.38 (0.00')	268.77 (0.00')	269.22 (0.00')	269.71 (0.00')	270.26 (0.00')	270.85 (0.00')	271.50 (0.00')	272.20 (0.00')	272.95 (0.00')	273.75 (0.00')	274.60 (0.00')	275.51 (0.00')	276.46 (0.00')	277.47 (0.00')	278.52 (0.00')	279.63 (0.00')	280.79 (0.00')	282.00 (0.00')	283.21 (0.00')	284.43 (0.00')	285.59 (0.00')	286.69 (0.00')		

SB ROUTE 28

HORIZ.	0	25'	50'
VERT.	0	5'	10'

PROJECT	SHEET NO.
0028-029-269	9A

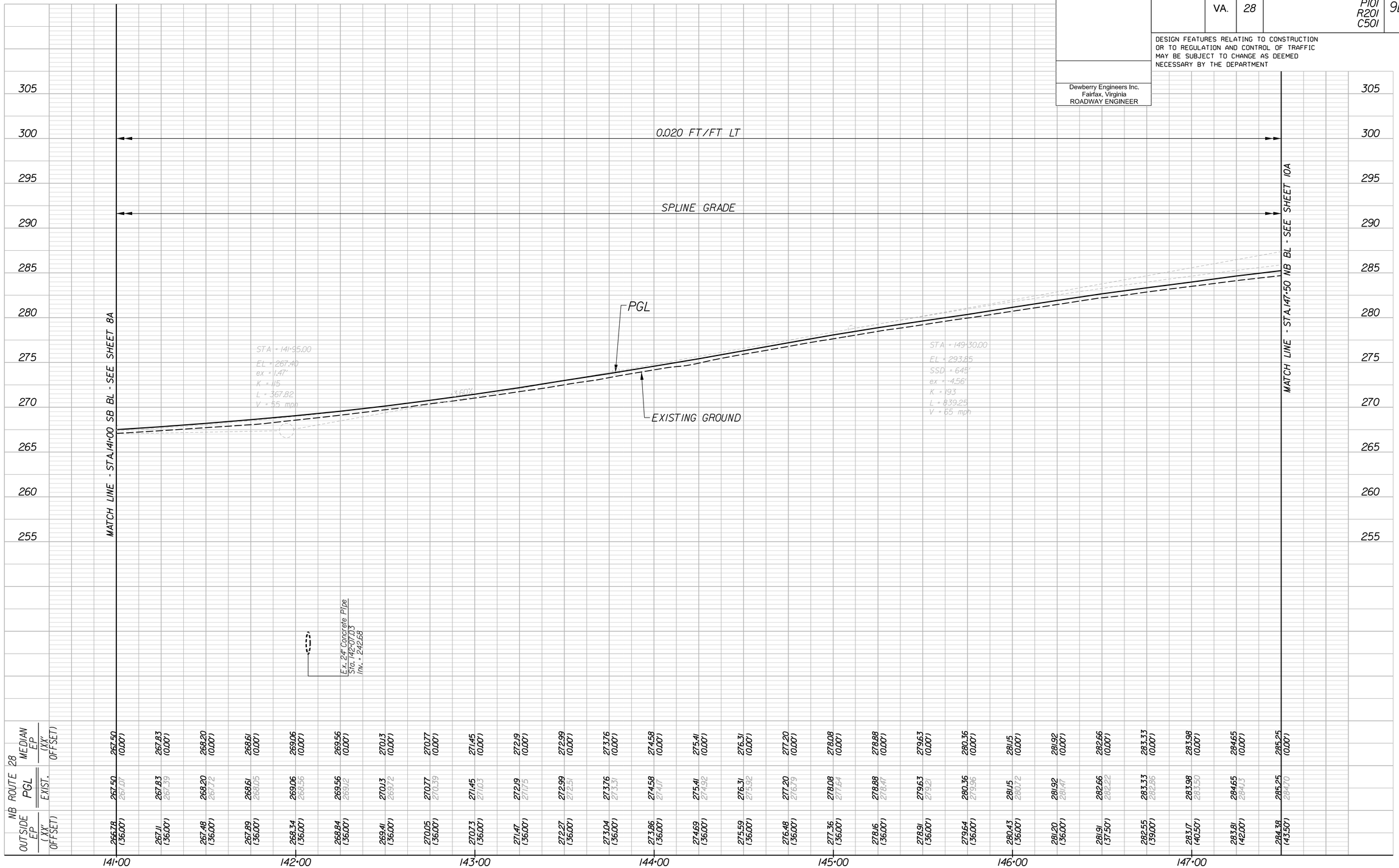
Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	9B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



NB ROUTE 28	OUTSIDE EP (XX' OFFSET)	PGL EXIST.	MEDIAN EP (XX' OFFSET)
	266.78 (36.00')	267.50 267.01	267.50 (0.00')
	267.11 (36.00')	267.83 267.39	267.83 (0.00')
	267.48 (36.00')	268.20 267.72	268.20 (0.00')
	267.89 (36.00')	268.61 268.05	268.61 (0.00')
	268.34 (36.00')	269.06 268.56	269.06 (0.00')
	268.84 (36.00')	269.56 269.12	269.56 (0.00')
	269.41 (36.00')	270.13 269.72	270.13 (0.00')
	270.05 (36.00')	270.77 270.39	270.77 (0.00')
	270.73 (36.00')	271.45 271.13	271.45 (0.00')
	271.47 (36.00')	272.19 271.75	272.19 (0.00')
	272.27 (36.00')	272.99 272.51	272.99 (0.00')
	273.04 (36.00')	273.76 273.31	273.76 (0.00')
	273.86 (36.00')	274.58 274.17	274.58 (0.00')
	274.69 (36.00')	275.41 274.92	275.41 (0.00')
	275.59 (36.00')	276.31 275.92	276.31 (0.00')
	276.48 (36.00')	277.20 276.79	277.20 (0.00')
	277.36 (36.00')	278.08 277.64	278.08 (0.00')
	278.16 (36.00')	278.88 278.47	278.88 (0.00')
	278.91 (36.00')	279.63 279.21	279.63 (0.00')
	279.64 (36.00')	280.36 279.96	280.36 (0.00')
	280.43 (36.00')	281.15 280.72	281.15 (0.00')
	281.20 (36.00')	281.92 281.47	281.92 (0.00')
	281.91 (37.50')	282.66 282.22	282.66 (0.00')
	282.55 (39.00')	283.33 282.86	283.33 (0.00')
	283.17 (40.50')	283.98 283.50	283.98 (0.00')
	283.81 (42.00')	284.65 284.13	284.65 (0.00')
	284.38 (43.50')	285.25 284.70	285.25 (0.00')

NB ROUTE 28

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT	SHEET NO.
0028-029-269	9B

Dewberry

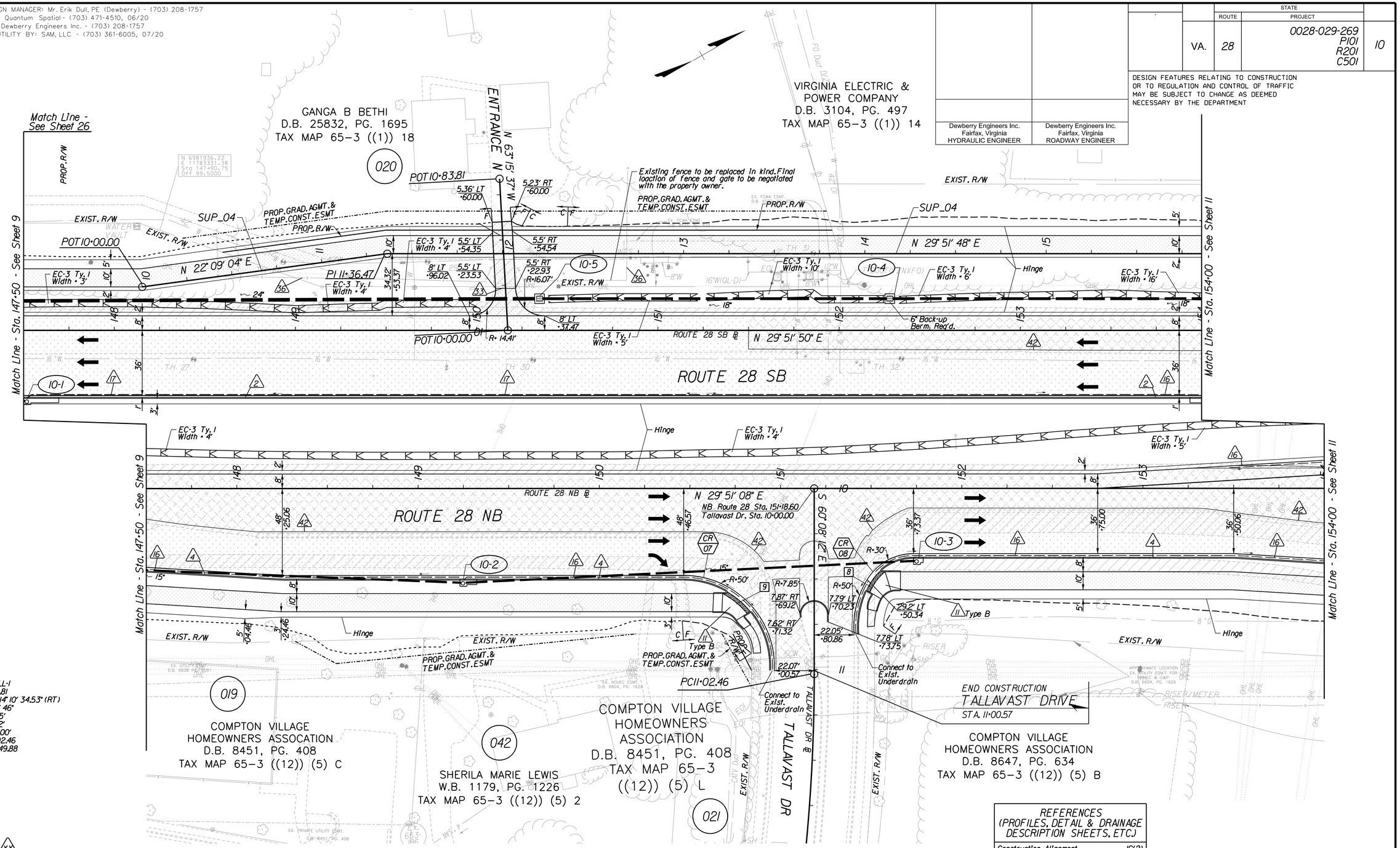
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

	STATE	
	ROUTE	PROJECT
VA.	28	0028-029-269 P101 R201 C501

10

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER



Curve TALL-1
PI = 12+26.81
DELTA = 14° 10' 34.53" (RT)
D = 5° 43' 46"
T = 124.35'
L = 247.42'
R = 1,000.00'
PC = 11+02.46
PT = 13+49.88

Key Legend (XX)

1	6" Curb, Std. CG-2 Req'd.	11	Curb Ramp, Std. CG-12 Req'd.	23	Guardrail, Std. GR-MGS1 Req'd.	35	Remove Exist. Guardrail
2	4" Curb, Std. CG-3 Req'd.	12	Underdrain Endwall, Std. EW-12 Req'd.	24	Guardrail, Std. GR-MGS1A Req'd.	36	Remove Exist. Fence
3	6" Curb and Gutter, Std. CG-6 Req'd.	13	Shoulder Break Over Line	25	Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.	37	Remove Exist. Structure
4	4" Curb and Gutter, Std. CG-7 Req'd.	14	Groundwater Underdrain, Std. UD-1 Req'd.	26	Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.	38	Remove Or Abandon and Fill Exist. Pipe
5	Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.	15	Curb-Cut Opening, Drainage Flume	27	Guardrail, Std. GR-10, Type I Req'd.	39	Remove Exist. Pole
6	Not Used	16	Pavement Underdrain, Std. UD-4 Req'd.	28	Guardrail, Std. GR-10, Type II Req'd.	40	Adjust Exist. Structure
7	Conc. Raised Median, Std. MS-1A (6" Curb)	17	Pavement Underdrain, Mod. 6" UD-4 Req'd.	29	Guardrail, Std. GR-10, Type III Req'd.	41	Clean Out Exist. Structure
8	Grass Raised Median, Std. MS-2 (6" Curb)	18	Crossdrain, Std. CD-1 Req'd.	30	Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.	42	Full Depth Sawcut
9	Entrance Gutter, Std. CG-9D Req'd.	19	Crossdrain, Std. CD-2 Req'd.	31	Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.	43	Clean Out Exist. Pipe
10	Entrance, Std. CG-11 Req'd.	20	Standard Fence, Std. FE-CL Req'd.	32	Guardrail Transition, Std. GR-MGS4 Req'd.	44	10' Gutter Run Out
		21	Grass Raised Median, Std. MS-2 (4" Curb)	33	End CG-9D Entrance Type	45	Median Barrier, Std. MB-8A Req'd.
		22	Chain Link Fence, Std. FE-CL Req'd.	34	Handrail, Std. HR-1 Type III Req'd.	46	Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

(X) Curb Ramp — See Sheet 2A(8)-(9)
(CR XX) Curb Return — See Sheet 2A(7)
C ___ Denotes Construction Limits In Cuts
F ___ Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(2)
Typical Sections	2A(1), 2A(6)
E&S Phase 1B(1)/2	2F(4)
E&S Phase 3	2G(4)
Tallavast Dr. Profile	8B
Route 28 Profile	10A
Entrance N Profile	32(2)
SUP-4 Profile	32(5)
Drainage Descriptions	33

SCALE: 0 25' 50'

2/11/2021
10:48:29 AM

d108720-10A.dgn
Plotted By: cjennings

Dewberry

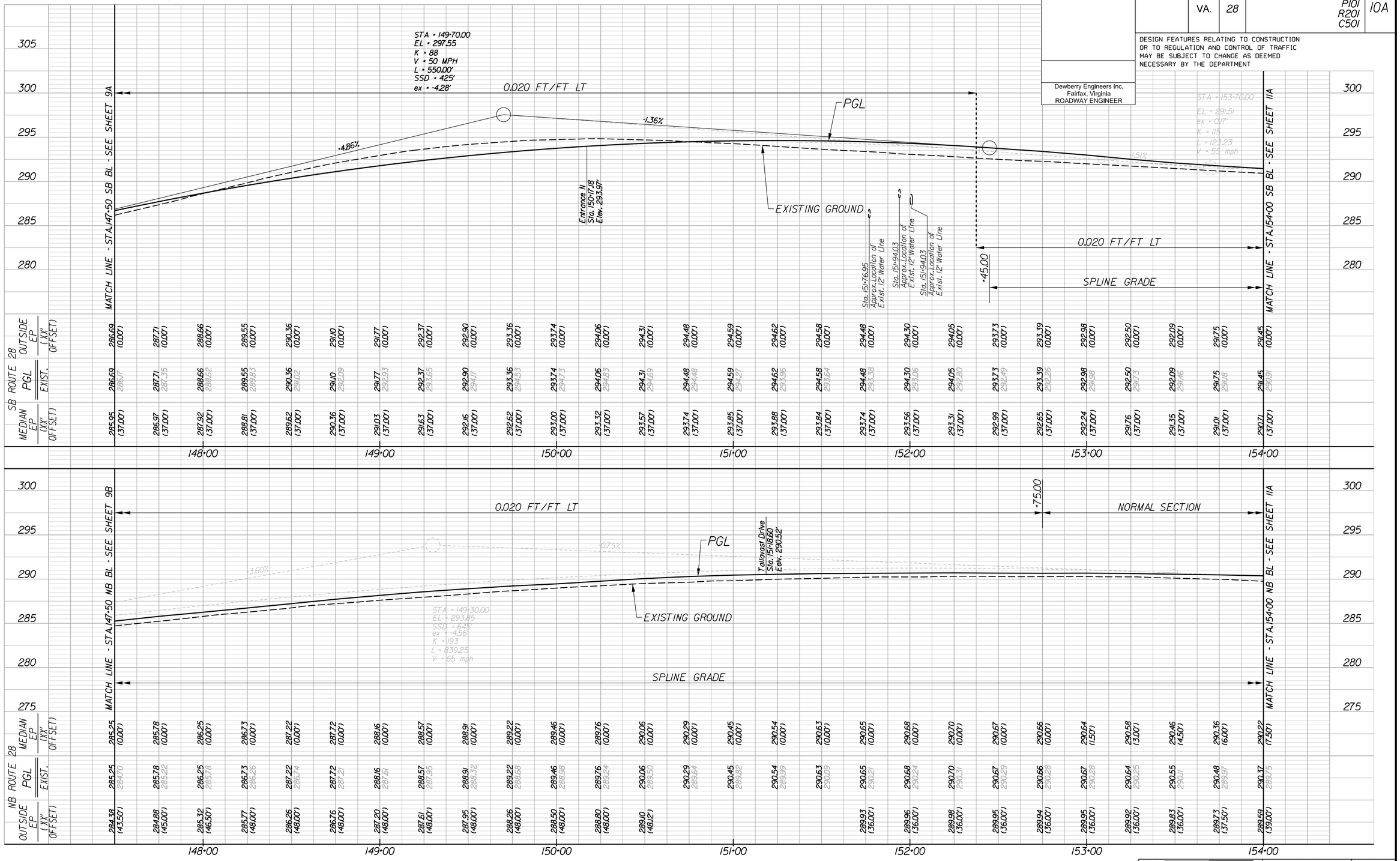
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SB ROUTE 28

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	10A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



SB ROUTE 28

	148+00	149+00	150+00	151+00	152+00	153+00	154+00
OUTSIDE EP (XX' OFFSET)	286.69 (0.00')	287.71 (0.00')	288.66 (0.00')	289.55 (0.00')	290.36 (0.00')	291.10 (0.00')	291.77 (0.00')	292.37 (0.00')	292.90 (0.00')	293.36 (0.00')	293.74 (0.00')	294.06 (0.00')	294.31 (0.00')	294.48 (0.00')	294.59 (0.00')	294.62 (0.00')	294.58 (0.00')	294.48 (0.00')	294.30 (0.00')	294.05 (0.00')	293.73 (0.00')	293.39 (0.00')	292.98 (0.00')	292.50 (0.00')	292.09 (0.00')	291.75 (0.00')	291.45 (0.00')
PGL / EXIST.	286.69 286.41	287.71 287.35	288.66 288.62	289.55 289.83	290.36 291.02	291.10 292.09	291.77 292.93	292.37 293.65	292.90 294.11	293.36 294.53	293.74 294.73	294.06 294.83	294.31 294.69	294.48 294.48	294.59 294.27	294.62 293.96	294.58 293.64	294.48 293.38	294.30 293.06	294.05 292.80	293.73 292.49	293.39 292.26	292.98 291.98	292.50 291.73	292.09 291.46	291.75 291.18	291.45 290.91
MEDIAN EP (XX' OFFSET)	285.95 (37.00')	286.97 (37.00')	287.92 (37.00')	288.81 (37.00')	289.62 (37.00')	290.36 (37.00')	291.03 (37.00')	291.63 (37.00')	292.16 (37.00')	292.62 (37.00')	293.00 (37.00')	293.32 (37.00')	293.57 (37.00')	293.74 (37.00')	293.85 (37.00')	293.88 (37.00')	293.84 (37.00')	293.74 (37.00')	293.56 (37.00')	293.31 (37.00')	292.99 (37.00')	292.65 (37.00')	292.24 (37.00')	291.76 (37.00')	291.35 (37.00')	291.01 (37.00')	290.71 (37.00')

NB ROUTE 28

	148+00	149+00	150+00	151+00	152+00	153+00	154+00
MEDIAN EP (XX' OFFSET)	285.25 (0.00')	285.78 (0.00')	286.25 (0.00')	286.73 (0.00')	287.22 (0.00')	287.72 (0.00')	288.16 (0.00')	288.57 (0.00')	288.91 (0.00')	289.22 (0.00')	289.46 (0.00')	289.76 (0.00')	290.06 (0.00')	290.29 (0.00')	290.45 (0.00')	290.54 (0.00')	290.63 (0.00')	290.65 (0.00')	290.68 (0.00')	290.70 (0.00')	290.67 (0.00')	290.66 (0.00')	290.64 (1.50')	290.58 (3.00')	290.46 (4.50')	290.36 (6.00')	290.22 (7.50')
PGL / EXIST.	285.25 284.70	285.78 285.22	286.25 285.78	286.73 286.26	287.22 286.74	287.72 287.21	288.16 287.61	288.57 287.95	288.91 288.32	289.22 288.68	289.46 288.98	289.76 289.24	290.06 289.50	290.29 289.64	290.45 289.82	290.54 289.99	290.63 290.09	290.65 290.21	290.68 290.24	290.70 290.31	290.67 290.29	290.66 290.28	290.67 290.28	290.64 290.25	290.55 290.01	290.48 289.97	290.37 289.75
OUTSIDE EP (XX' OFFSET)	284.38 (43.50')	284.88 (45.00')	285.32 (46.50')	285.77 (48.00')	286.26 (48.00')	286.76 (48.00')	287.20 (48.00')	287.61 (48.00')	287.95 (48.00')	288.26 (48.00')	288.50 (48.00')	288.80 (48.00')	289.10 (48.12')					289.93 (36.00')	289.96 (36.00')	289.98 (36.00')	289.95 (36.00')	289.94 (36.00')	289.95 (36.00')	289.92 (36.00')	289.83 (36.00')	289.73 (37.50')	289.59 (39.00')

HORIZ.	PROJECT	SHEET NO.
VERT. 0 5' 10'	0028-029-269	10A

NB ROUTE 28

2/11/2021
10:49:52 AM

d108720-11.dgn
Plotted By: cjennings

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated: 6-17-2020

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

STATE	ROUTE	PROJECT	SHEET NO.
VA.	28	0028-029-269 P101 R201 C501	11

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
HYDRAULIC ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER

Green Trails/Old Mill Intersection Medians

	Alignment	Elev. (Ft.)	Offset/ Station
1	SB Rte. 28	290.78	17.07' RT +41.11
2	SB Rte. 28	291.05	24.47' RT +72.78
3	NB Rte. 28	290.98	45.60' LT +08.16
4	NB Rte. 28	289.70	32' LT +42.20
5	SB Rte. 28	291.59	32.93' RT +73.20
6	SB Rte. 28	291.53	27.64' RT +87.02
7	NB Rte. 28	291.31	17.53' LT +34.56
8	NB Rte. 28	291.10	24.05' LT +21.07
9	NB Rte. 28	291.53	36.96' LT +05.30
10	Green Trails Blvd.	289.27	8.71' RT +67.68
11	Green Trails Blvd.	289.43	8.88' LT +68.23

Key Legend (XX)

1 6" Curb, St'd. CG-2 Req'd.
2 4" Curb, St'd. CG-3 Req'd.
3 6" Curb and Gutter, St'd. CG-6 Req'd.
4 4" Curb and Gutter, St'd. CG-7 Req'd.
5 Conc. Raised Median, St'd. MS-1 with 4" Curb Req'd.
6 Not Used
7 Conc. Raised Median, St'd. MS-1A (6" Curb)
8 Grass Raised Median, St'd. MS-2 (6" Curb)
9 Entrance Gutter, St'd. CG-9D Req'd.
10 Entrance, St'd. CG-11 Req'd.
11 Curb Ramp, St'd. CG-12 Req'd.
12 Underdrain Endwall, St'd. EW-12 Req'd.
13 Shoulder Break Over Line
14 Groundwater Underdrain, St'd. UD-1 Req'd.
15 Curb-Cut Opening, Drainage Flume
16 Pavement Underdrain, St'd. UD-4 Req'd.
17 Pavement Underdrain, Mod. 6" UD-4 Req'd.
18 Crossdrain, St'd. CD-1 Req'd.
19 Crossdrain, St'd. CD-2 Req'd.
20 Standard Fence, St'd. FE-CL Req'd.
21 Grass Raised Median, St'd. MS-2 (4" Curb)
22 Chain Link Fence, St'd. FE-CL Req'd.
23 Guardrail, St'd. GR-MGS1 Req'd.
24 Guardrail, St'd. GR-MGS1A Req'd.
25 Guardrail Tangent End Terminal, St'd. GR-MGS2 Req'd.
26 Guardrail Trailing End Achorage, St'd. GR-MGS3 Req'd.
27 Guardrail, St'd. GR-10, Type I Req'd.
28 Guardrail, St'd. GR-10, Type II Req'd.
29 Guardrail, St'd. GR-10, Type III Req'd.
30 Fixed Object Att., St'd. GR-FOA-2 Ty. 1 Req'd.
31 Fixed Object Att., St'd. GR-FOA-2 Ty. 2 Req'd.
32 Guardrail Transition, St'd. GR-MGS4 Req'd.
33 End CG-9D Entrance Type
34 Handrail, St'd. HR-1 Type III Req'd.
35 Remove Exist. Guardrail
36 Remove Exist. Fence
37 Remove Exist. Structure
38 Remove Or Abandon and Fill Exist. Pipe
39 Remove Exist. Pole
40 Adjust Exist. Structure
41 Clean Out Exist. Structure
42 Full Depth Sawcut
43 Clean Out Exist. Pipe
44 10' Gutter Run Out
45 Median Barrier, St'd. MB-8A Req'd.
46 Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

X Curb Ramp See Sheet 2A(8)-(9)
CR XX Curb Return See Sheet 2A(7)
C Denotes Construction Limits in Cuts
F Denotes Construction Limits in Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(2)-1G(3)
Typical Sections	2A(1)-2A(3)
E&S Phase 1B(1)/2	2F(5)
E&S Phase 3	2G(5)
Route 28 Profile	11A
Old Mill Rd. Profile	11B
Green Trails Blvd. Profile	11B
SUP-4 Profile	32(5)
Drainage Descriptions	33

SCALE 0 25' 50'

2/11/2021
10:51:02 AM

d108720-11Adgn
Plotted By: cjennings

Dewberry

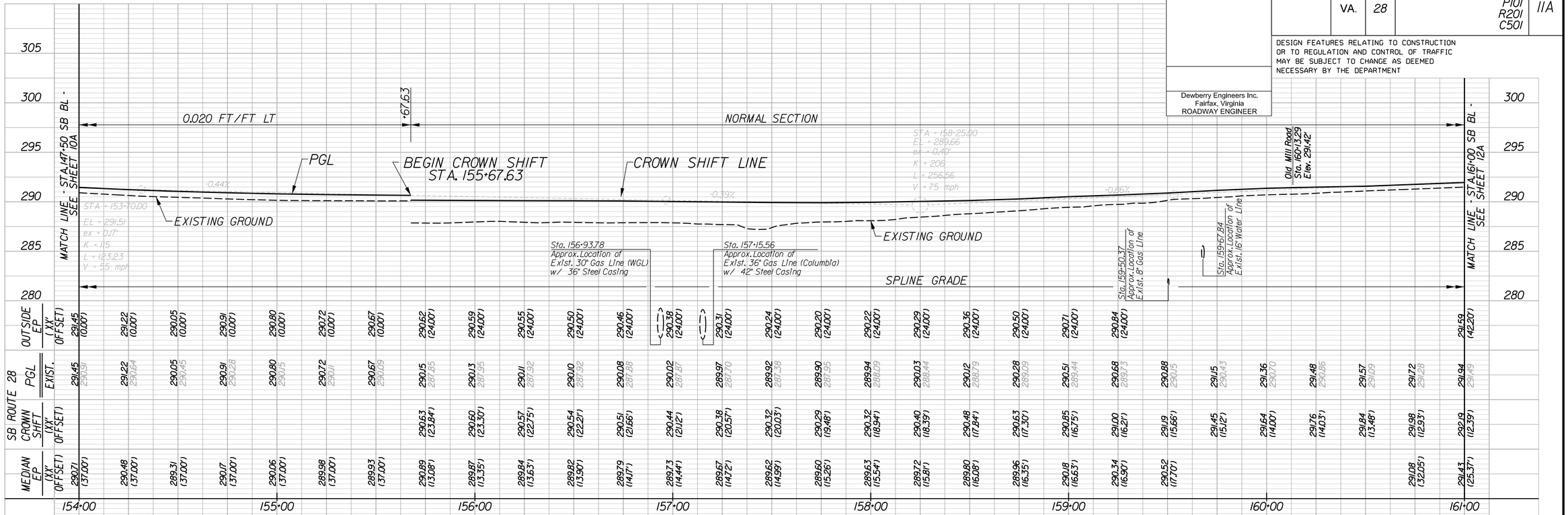
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SB ROUTE 28

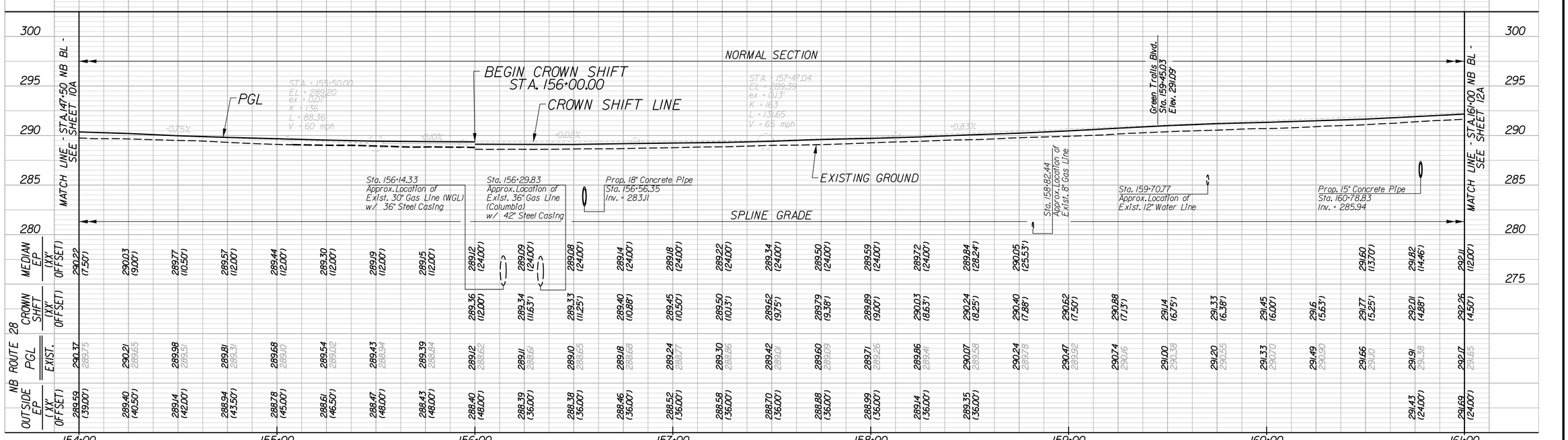
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	11A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



SB ROUTE 28	154+00	155+00	156+00	157+00	158+00	159+00	160+00	161+00
OUTSIDE EP (XX' OFFSET)	291.45 (0.00')	291.22 (0.00')	290.05 (0.00')	290.91 (0.00')	290.80 (0.00')	290.72 (0.00')	290.67 (0.00')	290.62 (24.00')
	290.59 (24.00')	290.55 (24.00')	290.50 (24.00')	290.46 (24.00')	290.38 (24.00')	290.31 (24.00')	290.24 (24.00')	290.20 (24.00')
	290.22 (24.00')	290.29 (24.00')	290.36 (24.00')	290.50 (24.00')	290.71 (24.00')	290.84 (24.00')	291.59 (42.20')	
PGL / EXIST.	291.45 290.09	291.22 290.64	290.05 290.45	290.91 290.28	290.80 290.15	290.72 290.11	290.67 290.09	290.15 287.85
	290.13 287.95	290.11 287.82	290.10 287.92	290.08 287.88	290.02 287.67	289.97 287.70	289.92 287.38	289.90 287.95
	289.94 288.09	290.03 288.44	290.12 288.79	290.28 289.09	290.51 289.44	290.68 289.73	290.88 290.15	291.15 290.43
	291.36 290.70	291.48 290.86	291.57 291.09	291.72 291.28	291.94 291.49			
CROWN SHIFT (XX' OFFSET)		290.63 (23.84')	290.60 (23.30')	290.57 (22.75')	290.54 (22.21')	290.51 (21.66')	290.44 (21.12')	290.38 (20.57')
	290.32 (20.03')	290.29 (19.48')	290.32 (18.94')	290.40 (18.39')	290.48 (17.84')	290.63 (17.30')	290.85 (16.75')	291.00 (16.21')
	291.19 (15.66')	291.45 (15.12')	291.64 (14.00')	291.76 (14.03')	291.84 (13.48')	291.98 (12.93')	292.19 (12.39')	
MEDIAN EP (XX' OFFSET)	290.71 (37.00')	290.48 (37.00')	289.31 (37.00')	290.17 (37.00')	290.06 (37.00')	289.98 (37.00')	289.93 (37.00')	290.89 (13.08')
	289.87 (13.35')	289.84 (13.35')	289.82 (13.90')	289.79 (14.17')	289.73 (14.44')	289.67 (14.72')	289.62 (14.99')	289.60 (15.26')
	289.63 (15.54')	289.72 (15.81')	289.80 (16.08')	289.96 (16.35')	290.18 (16.63')	290.34 (16.90')	290.52 (17.70')	
	291.08 (32.05')	291.43 (25.37')						



NB ROUTE 28	154+00	155+00	156+00	157+00	158+00	159+00	160+00	161+00
OUTSIDE EP (XX' OFFSET)	289.59 (39.00')	288.40 (40.50')	289.14 (42.00')	288.94 (43.50')	288.78 (45.00')	288.61 (46.50')	288.47 (48.00')	288.43 (48.00')
	288.40 (48.00')	288.39 (36.00')	288.38 (36.00')	288.46 (36.00')	288.52 (36.00')	288.58 (36.00')	288.70 (36.00')	288.88 (36.00')
	288.99 (36.00')	289.14 (36.00')	289.35 (36.00')					
PGL / EXIST.	290.17 289.75	290.21 289.65	289.98 289.51	289.81 289.31	289.68 289.10	289.54 289.02	289.43 288.94	289.39 288.84
	289.12 288.62	289.11 288.61	289.10 288.65	289.18 288.68	289.24 288.77	289.30 288.86	289.42 289.01	289.60 289.09
	289.71 288.26	289.86 288.41	290.07 289.58	290.24 289.78	290.47 289.92	290.74 290.16	291.00 290.38	291.20 290.55
	291.33 290.70	291.49 290.90	291.66 291.10	291.91 291.38	292.17 291.65			
CROWN SHIFT (XX' OFFSET)		289.36 (12.00')	289.34 (11.63')	289.33 (11.25')	289.40 (10.88')	289.45 (10.50')	289.50 (10.13')	289.62 (9.75')
	289.79 (9.38')	289.89 (9.00')	290.03 (8.63')	290.24 (8.25')	290.40 (7.88')	290.62 (7.50')	290.88 (7.13')	291.14 (6.75')
	291.33 (6.38')	291.45 (6.00')	291.6 (5.63')	291.77 (5.25')	292.01 (4.88')	292.26 (4.50')		
MEDIAN EP (XX' OFFSET)	289.12 (24.00')	289.09 (24.00')	289.08 (24.00')	289.14 (24.00')	289.18 (24.00')	289.22 (24.00')	289.34 (24.00')	289.50 (24.00')
	289.59 (24.00')	289.72 (24.00')	289.84 (28.24')	290.05 (25.53')				
	289.60 (13.70')	289.82 (14.46')	292.11 (12.00')					
OUTSIDE EP (XX' OFFSET)	291.43 (24.00')	291.69 (24.00')						

NB ROUTE 28

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT	SHEET NO.
0028-029-269	11A

2/11/2021
10:52:12 AM

d108720-11B.dgn
Plotted By: cjennings

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

OLD MILL ROAD

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	IIB

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER

BEGIN CONSTRUCTION
OLD MILL ROAD
STA. 10+00.00

END CONSTRUCTION
OLD MILL ROAD
STA. 13+76.97

RT SIDE - FULL SE
AT 0.0048 FT/FT RT

+24.00
RT SIDE - 76' TRANSITION
FROM 0.0048 FT/FT RT
TO EXIST 0.018 FT/FT LT
+00.00

RT SIDE - MATCH EXISTING
+76.97

PGL
291.42
2.00%
-2.00%
-0.88%
1.24%
288.64

Prop. 15" Concrete Pipe
Sta. 10+94.05
Inv. = 287.16

STA = 10+56.63
EL = 291.22
K = 25
V = 25 mph
L = 55.10

+00.00
EXISTING GROUND
+76.97
SPLINE GRADE

+24.00
LT SIDE - 76' TRANSITION
FROM 0.0048 FT/FT RT
TO EXIST 0.0102 FT/FT RT
+00.00

LT SIDE - MATCH EXISTING
+76.97

LT SIDE - FULL SE
AT 0.0048 FT/FT RT

	10+00	11+00	12+00	13+00	14+00	15+00	16+00
LT./EP (XX' OFFSET)		291.44 (31.00')	291.52 (31.00')	291.64 (31.00')	291.77 (31.00')	291.48 (31.00')	291.27 (31.00')	290.94 (31.00')	290.64 (31.00')	290.09 (29.39')	289.51 (27.64')	288.86 (25.89')	288.14 (24.14')
LT./SAWCUT (XX' OFFSET)		291.34' (22.97')	291.63' (22.97')	291.82' (22.96')	291.96' (22.96')	291.74' (22.95')	291.49' (22.95')	291.12' (22.94')	290.77' (22.94')	290.24' (22.99')	289.63' (23.01')	288.93' (23.02')	288.17' (23.01')
PGL / EXIST.	291.42 290.77	291.50 290.95	291.36 290.92	291.47 291.35	291.76 291.76	292.07 292.07	292.33 292.33	292.38 292.38	292.28 292.28	292.00 292.00	291.66 291.66	291.18 291.18	290.61 290.61	290.10 290.10	289.51 289.51	288.70 288.70

GREEN TRAILS BLVD.

BEGIN CONSTRUCTION
STA. 10+00.00

291.09
-1.98%
-2.70%
288.99

END CONSTRUCTION
STA. 10+93.28

PGL
STA = 10+59.00
EL = 289.92

Projected Profile Grade Line
Under Existing Median

EXISTING GROUND

Sta. 10+89.66
Approx. Location of
Exist. 8" Gas Line
w/ 12" Steel Casing

	10+00	11+00	12+00	13+00	14+00	15+00
PGL / EXIST.	291.09 290.34	290.59 290.09	290.10 289.65	289.49 289.65		

GREEN TRAILS BLVD.

HORIZ.	0	25'	50'
VERT.	0	5'	10'

PROJECT	SHEET NO.
0028-029-269	IIB

2/11/2021
10:53:21 AM

d108720-12.dgn
Plotted By: cJennings

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated: 6-17-2020

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	12

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

023
PARCEL "B"
OLD MILL
SECTION 1
D.B. 8112, PG. 1168
TAX MAP 65-1 ((9)) B

026
SCHOOL BOARD OF FAIRFAX COUNTY
D.B. 7487, PG. 133
TAX MAP: 65-3 ((4)) A

Match Line - Sta. 161+00 - See Sheet 11

Match Line - Sta. 167+50 - See Sheet 13

ROUTE 28 SB

ROUTE 28 NB

POT 10+00.00

PI 12+59.93

PI 166+67.78

PI 164+00.08

N 29° 05' 36" E

N 28° 54' 33" E

N 29° 51' 48" E

N 29° 02' 28" E

1100' Crown Shift

800' Crown Shift

End SB Crown Shift Sta. 166+67.78

End NB Crown Shift Sta. 164+00.08

PROP. STORM DRAIN. ESM'T.

PROP. GRAD. AGMT. & TEMP. CONST. ESMT

PROP. R/W

EXIST. R/W

SUP-05

Hinge

12-1 12-2 12-5 12-6 12-8 12-9

F8

38.83' LT -04.56

31.74' LT -08.41

24.65' -08.56

24' RT -06.76

EC-3 Ty. I Width = 3'

EC-3 Ty. I Width = 6'

EC-3 Ty. I Width = 7'

EC-3 Ty. I Width = 8'

EC-3 Ty. I Width = 5'

12" Back-up Berm Req'd.

Green Trails/Old Mill Intersection Medians			
	Alignment	Elev. (Ft.)	Offset/ Station
1	SB Rte. 28	291.69	25.28' RT -00.27

Key Legend (XX)

1	6" Curb, Std. CG-2 Req'd.	11	Curb Ramp, Std. CG-12 Req'd.	23	Guardrail, Std. GR-MGS1 Req'd.	35	Remove Exist. Guardrail
2	4" Curb, Std. CG-3 Req'd.	12	Underdrain Endwall, Std. EW-12 Req'd.	24	Guardrail, Std. GR-MGS1A Req'd.	36	Remove Exist. Fence
3	6" Curb and Gutter, Std. CG-6 Req'd.	13	Shoulder Break Over Line	25	Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.	37	Remove Exist. Structure
4	4" Curb and Gutter, Std. CG-7 Req'd.	14	Groundwater Underdrain, Std. UD-1 Req'd.	26	Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.	38	Remove Or Abandon and Fill Exist. Pipe
5	Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.	15	Curb-Cut Opening, Drainage Flume	27	Guardrail, Std. GR-10, Type I Req'd.	39	Remove Exist. Pole
6	Not Used	16	Pavement Underdrain, Std. UD-4 Req'd.	28	Guardrail, Std. GR-10, Type II Req'd.	40	Adjust Exist. Structure
7	Conc. Raised Median, Std. MS-1A (6" Curb)	17	Pavement Underdrain, Mod. 6" UD-4 Req'd.	29	Guardrail, Std. GR-10, Type III Req'd.	41	Clean Out Exist. Structure
8	Grass Raised Median, Std. MS-2 (6" Curb)	18	Crossdrain, Std. CD-1 Req'd.	30	Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.	42	Full Depth Sawcut
9	Entrance Gutter, Std. CG-9D Req'd.	19	Crossdrain, Std. CD-2 Req'd.	31	Fixed Object Att., Std. GR-FOA-2 Ty. II Req'd.	43	Clean Out Exist. Pipe
10	Entrance, Std. CG-11 Req'd.	20	Standard Fence, Std. FE-CL Req'd.	32	Guardrail Transition, Std. GR-MGS4 Req'd.	44	10' Gutter Run Out
		21	Grass Raised Median, Std. MS-2 (4" Curb)	33	End CG-9D Entrance Type	45	Median Barrier, Std. MB-8A Req'd.
		22	Chain Link Fence, Std. FE-CL Req'd.	34	Handrail, Std. HR-1 Type III Req'd.	46	Pavement Demarcation Line

Denotes Full Depth Pavement

Denotes SUP/Driveway /Private Entrance Pavement

Denotes Pavement Demolition

Denotes Milling and Overlay / Variable Depth Overlay

[X] Curb Ramp See Sheet 2A(8)-(9)

(CR XX) Curb Return See Sheet 2A(7)

C Denotes Construction Limits In Cuts

F Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(3)
Typical Sections	2A(2)
E&S Phase 1B(1)/2	2F(5)-2F(6)
E&S Phase 3	2G(5)-2G(6)
Route 28 Profile	12A
SUP-5 Profile	32(6)
Drainage Descriptions	33

SCALE 0 25' 50'

PROJECT 0028-029-269

SHEET NO. 12

2/11/2021
10:54:31 AM

d108720-12Adgn
Plotted By: cjennings

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
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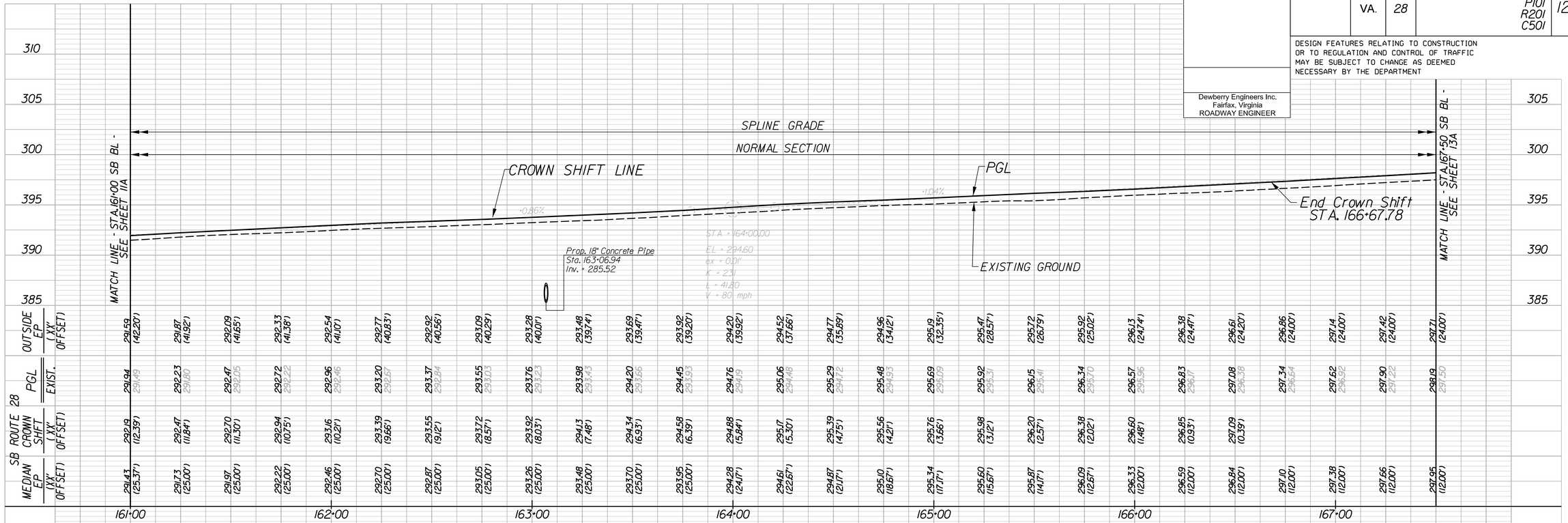
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SB ROUTE 28

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	12A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



SB ROUTE 28	161+00	162+00	163+00	164+00	165+00	166+00	167+00
MEDIAN EP (XX' OFFSET)	29.43 (25.37')	29.73 (25.00')	29.97 (25.00')	29.22 (25.00')	29.46 (25.00')	29.70 (25.00')	29.87 (25.00')
CROWN SHIFT (XX' OFFSET)	292.19 (12.39')	292.47 (11.84')	292.70 (11.30')	292.94 (10.75')	293.16 (10.21')	293.39 (9.66')	293.55 (9.12')
PGL EXIST.	29.94 29.49	292.23 29.80	292.47 29.05	292.72 29.22	292.96 29.46	293.20 29.67	293.37 29.84
OUTSIDE EP (XX' OFFSET)	29.69 (42.20')	29.87 (41.92')	292.09 (41.65')	292.33 (41.38')	292.54 (41.01')	292.77 (40.83')	292.92 (40.56')

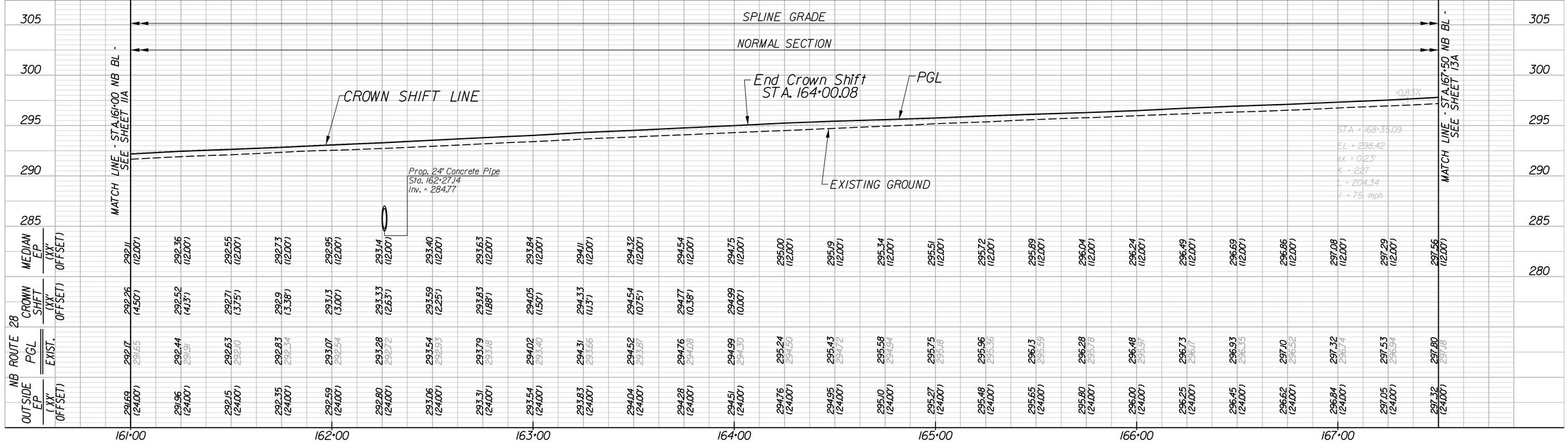
SB ROUTE 28	161+00	162+00	163+00	164+00	165+00	166+00	167+00
MEDIAN EP (XX' OFFSET)	29.87 (25.00')	29.92 (25.00')	29.97 (25.00')	293.09 (25.00')	293.26 (25.00')	293.48 (25.00')	293.70 (25.00')
CROWN SHIFT (XX' OFFSET)	293.55 (9.12')	293.72 (8.57')	293.92 (8.03')	294.13 (7.48')	294.34 (6.93')	294.58 (6.39')	294.88 (5.84')
PGL EXIST.	293.37 29.84	293.55 29.03	293.76 29.23	293.98 29.43	294.20 29.66	294.45 29.93	294.76 29.19
OUTSIDE EP (XX' OFFSET)	292.92 (40.56')	293.09 (40.29')	293.28 (40.01')	293.48 (39.74')	293.69 (39.47')	293.92 (39.20')	294.20 (39.92')

SB ROUTE 28	161+00	162+00	163+00	164+00	165+00	166+00	167+00
MEDIAN EP (XX' OFFSET)	29.97 (25.00')	293.05 (25.00')	293.26 (25.00')	293.48 (25.00')	293.70 (25.00')	293.95 (25.00')	294.28 (24.17')
CROWN SHIFT (XX' OFFSET)	293.55 (9.12')	293.72 (8.57')	293.92 (8.03')	294.13 (7.48')	294.34 (6.93')	294.58 (6.39')	294.88 (5.84')
PGL EXIST.	293.37 29.84	293.55 29.03	293.76 29.23	293.98 29.43	294.20 29.66	294.45 29.93	294.76 29.19
OUTSIDE EP (XX' OFFSET)	292.92 (40.56')	293.09 (40.29')	293.28 (40.01')	293.48 (39.74')	293.69 (39.47')	293.92 (39.20')	294.20 (39.92')

SB ROUTE 28	161+00	162+00	163+00	164+00	165+00	166+00	167+00
MEDIAN EP (XX' OFFSET)	294.61 (22.67')	294.87 (21.17')	295.14 (17.17')	295.60 (15.67')	295.87 (14.17')	296.09 (12.67')	296.33 (12.00')
CROWN SHIFT (XX' OFFSET)	295.17 (5.30')	295.39 (4.75')	295.56 (4.21')	295.98 (3.12')	296.20 (2.57')	296.38 (2.02')	296.60 (1.48')
PGL EXIST.	294.76 29.19	295.06 29.48	295.29 29.72	295.48 29.93	295.69 29.59	295.92 29.37	296.13 29.55
OUTSIDE EP (XX' OFFSET)	294.52 (37.66')	294.77 (35.89')	294.96 (34.12')	295.19 (32.35')	295.47 (28.57')	295.72 (26.79')	295.92 (25.02')

SB ROUTE 28	161+00	162+00	163+00	164+00	165+00	166+00	167+00
MEDIAN EP (XX' OFFSET)	295.60 (15.67')	295.87 (14.17')	296.09 (12.67')	296.33 (12.00')	296.59 (12.00')	296.84 (12.00')	297.10 (12.00')
CROWN SHIFT (XX' OFFSET)	295.98 (3.12')	296.20 (2.57')	296.38 (2.02')	296.60 (1.48')	296.85 (0.93')	297.09 (0.39')	
PGL EXIST.	295.48 29.93	295.69 29.59	295.92 29.37	296.13 29.55	296.38 29.41	296.61 29.38	296.86 29.64
OUTSIDE EP (XX' OFFSET)	295.19 (32.35')	295.47 (28.57')	295.72 (26.79')	295.92 (25.02')	296.13 (24.74')	296.38 (24.47')	296.61 (24.20')

SB ROUTE 28	161+00	162+00	163+00	164+00	165+00	166+00	167+00
MEDIAN EP (XX' OFFSET)	296.86 (24.00')	297.14 (24.00')	297.42 (24.00')	297.71 (24.00')			
CROWN SHIFT (XX' OFFSET)							
PGL EXIST.	297.34 29.64	297.62 29.62	297.90 29.22	298.19 29.50			
OUTSIDE EP (XX' OFFSET)	296.86 (24.00')	297.14 (24.00')	297.42 (24.00')	297.71 (24.00')			



NB ROUTE 28	161+00	162+00	163+00	164+00	165+00	166+00	167+00
MEDIAN EP (XX' OFFSET)	292.11 (12.00')	292.36 (12.00')	292.55 (12.00')	292.73 (12.00')	292.95 (12.00')	293.14 (12.00')	293.40 (12.00')
CROWN SHIFT (XX' OFFSET)	292.26 (4.50')	292.52 (4.13')	292.71 (3.75')	292.9 (3.38')	293.13 (3.00')	293.33 (2.63')	293.59 (2.25')
PGL EXIST.	292.17 29.65	292.44 29.91	292.63 29.10	292.83 29.32.34	293.07 29.25.4	293.28 29.22	293.54 29.93
OUTSIDE EP (XX' OFFSET)	291.69 (24.00')	291.96 (24.00')	292.15 (24.00')	292.35 (24.00')	292.59 (24.00')	292.80 (24.00')	293.06 (24.00')

NB ROUTE 28	161+00	162+00	163+00	164+00	165+00	166+00	167+00
MEDIAN EP (XX' OFFSET)	293.63 (12.00')	293.84 (12.00')	294.11 (12.00')	294.32 (12.00')	294.54 (12.00')	294.75 (12.00')	295.00 (12.00')
CROWN SHIFT (XX' OFFSET)	293.83 (1.88')	294.05 (1.50')	294.33 (1.13')	294.54 (0.75')	294.77 (0.38')	294.99 (0.00')	
PGL EXIST.	293.79 29.18	294.02 29.40	294.31 29.66	294.52 29.87	294.76 29.08	294.99 29.50	295.24 29.50
OUTSIDE EP (XX' OFFSET)	293.31 (24.00')	293.54 (24.00')	293.83 (24.00')	294.04 (24.00')	294.28 (24.00')	294.51 (24.00')	294.76 (24.00')

NB ROUTE 28	161+00	162+00	163+00	164+00	165+00	166+00	167+00
MEDIAN EP (XX' OFFSET)	295.19 (12.00')	295.51 (12.00')	295.72 (12.00')	295.89 (12.00')	296.04 (12.00')	296.24 (12.00')	296.49 (12.00')
CROWN SHIFT (XX' OFFSET)	295.43	295.58 29.94	295.75 29.50	295.96 29.36	296.13 29.59	296.28 29.78	296.48 29.57
PGL EXIST.	295.24 29.50						296.73 29.67
OUTSIDE EP (XX' OFFSET)	295.00 (12.00')	295.34 (12.00')	295.51 (12.00')	295.72 (12.00')	295.89 (12.00')	296.04 (12.00')	296.24 (12.00')

NB ROUTE 28	161+00	162+00	163+00	164+00	165+00	166+00	167+00
MEDIAN EP (XX' OFFSET)	296.69 (12.00')	296.84 (12.00')	297.08 (12.00')	297.29 (12.00')	297.56 (12.00')		
CROWN SHIFT (XX' OFFSET)	296.93	297.10	297.32	297.53	297.80		
PGL EXIST.	296.93 29.35	297.10 29.52	297.32 29.74	297.53 29.94	297.80 29.78		
OUTSIDE EP (XX' OFFSET)	296.69 (12.00')	296.86 (12.00')	297.08 (12.00')	297.29 (12.00')	297.56 (12.00')		

NB ROUTE 28	161+00	162+00	163+00	164+00	165+00	166+00	167+00
MEDIAN EP (XX' OFFSET)	296.45 (24.00')	296.62 (24.00')	296.84 (24.00')	297.05 (24.00')	297.32 (24.00')		
CROWN SHIFT (XX' OFFSET)							
PGL EXIST.							
OUTSIDE EP (XX' OFFSET)	296.45 (24.00')	296.62 (24.00')	296.84 (24.00')	297.05 (24.00')	297.32 (24.00')		

NB ROUTE 28

HORIZ.	0	25'	50'
VERT.	0	5'	10'

PROJECT	SHEET NO.
0028-029-269	12A

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	13

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

TAX MAP 65-1 ((9)) B 1168 023

OLD MILL SECTION 3 D.B. 9789, PG. 248 D.B. 8261, PG. 883 TAX MAP 65-1 ((9)) F1

PARCEL "B" OLD MILL SECTION 1 D.B. 8112, PG. 1168 TAX MAP 65-1 ((9)) B 023

PARCEL 'F-1' OLD MILL SECTION 3 D.B. 9789, PG. 248 D.B. 8261, PG. 883 TAX MAP 65-1 ((9)) F1 024

LOT 75 · LOT 74-A · EX. 050 268 · EX. 65-1 313 · EX. CSE ESMT. D.B. 8918, PG. 271 · EX. R MEDIA CEMENTARY CABLE CSE EXPRESS ESMT. (APPROX. LOCATION) DB. 10268 PG. 1180 · EX. NOVEC ESM'T DB. 8044 PG. 497 (APPROX. LOCATION) · EX. UTILITY ESM'T FOR NOVEC & C&P DB. 6564 PG. 405

EXIST. R/W · PROP. R/W · PROP. GRAD. AGMT. & TEMP. CONST. ESMT · SUP_05

ROUTE 28 SB · ROUTE 28 SB ℄ · N 29° 51' 48" E

ROUTE 28 NB · ROUTE 28 NB ℄ · N 29° 51' 48" E

Match Line - Sta. 167+50 - See Sheet 12

Match Line - Sta. 174+00 - See Sheet 14

Match Line - See Sheet 28

EC-3 Ty. I Width = 7'
EC-3 Ty. I Width = 6'
EC-3 Ty. I Width = 5'
EC-3 Ty. I Width = 4'
EC-3 Ty. I Width = 3'
EC-3 Ty. I Width = 16'
EC-3 Ty. I Width = 8'
EC-3 Ty. I Width = 11' LT Side Slope = 2:1 RT Side Slope = 9:1 Depth = 1.0'
EC-3 Ty. I Width = 6' LT Side Slope = 2:1 RT Side Slope = 4:1 Depth = 1.0'

Hinge · 6" Back-up Berm Req'd. · 15" · 13-1 · 13-2 · 13-3 · 13-4 · 14 · SWM 4 · PROP. PERMANENT E.S.M.T. · PROP. R/W · CUT & EXPOSED

026
SCHOOL BOARD OF FAIRFAX COUNTY
D.B. 7487, PG. 133
TAX MAP: 65-3 ((4)) A

Key Legend (XX)

1	6" Curb, Std. CG-2 Req'd.	11	Curb Ramp, Std. CG-12 Req'd.	23	Guardrail, Std. GR-MGS1 Req'd.	35	Remove Exist. Guardrail
2	4" Curb, Std. CG-3 Req'd.	12	Underdrain Endwall, Std. EW-12 Req'd.	24	Guardrail, Std. GR-MGS1A Req'd.	36	Remove Exist. Fence
3	6" Curb and Gutter, Std. CG-6 Req'd.	13	Shoulder Break Over Line	25	Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.	37	Remove Exist. Structure
4	4" Curb and Gutter, Std. CG-7 Req'd.	14	Groundwater Underdrain, Std. UD-1 Req'd.	26	Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.	38	Remove Or Abandon and Fill Exist. Pipe
5	Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.	15	Curb-Cut Opening, Drainage Flume	27	Guardrail, Std. GR-10, Type I Req'd.	39	Remove Exist. Pole
6	Not Used	16	Pavement Underdrain, Std. UD-4 Req'd.	28	Guardrail, Std. GR-10, Type II Req'd.	40	Adjust Exist. Structure
7	Conc. Raised Median, Std. MS-1A (6" Curb)	17	Pavement Underdrain, Mod. 6" UD-4 Req'd.	29	Guardrail, Std. GR-10, Type III Req'd.	41	Clean Out Exist. Structure
8	Grass Raised Median, Std. MS-2 (6" Curb)	18	Crossdrain, Std. CD-1 Req'd.	30	Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.	42	Full Depth Sawcut
9	Entrance Gutter, Std. CG-9D Req'd.	19	Crossdrain, Std. CD-2 Req'd.	31	Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.	43	Clean Out Exist. Pipe
10	Entrance, Std. CG-11 Req'd.	20	Standard Fence, Std. FE-CL Req'd.	32	Guardrail Transition, Std. GR-MGS4 Req'd.	44	10' Gutter Run Out
		21	Grass Raised Median, Std. MS-2 (4" Curb)	33	End CG-9D Entrance Type	45	Median Barrier, Std. MB-8A Req'd.
		22	Chain Link Fence, Std. FE-CL Req'd.	34	Handrail, Std. HR-1 Type III Req'd.	46	Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

[X] Curb Ramp See Sheet 2A(8)-(9)
(CR XX) Curb Return See Sheet 2A(7)
C Denotes Construction Limits In Cuts
F Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(3)
Typical Sections	2A(2)
E&S Phase 1B(1)/2	2F(6)
E&S Phase 3	2G(6)
Route 28 Profile	13A
SUP-5 Profile	32(6)
Drainage Descriptions	33

SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	13

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
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SB ROUTE 28

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	13A

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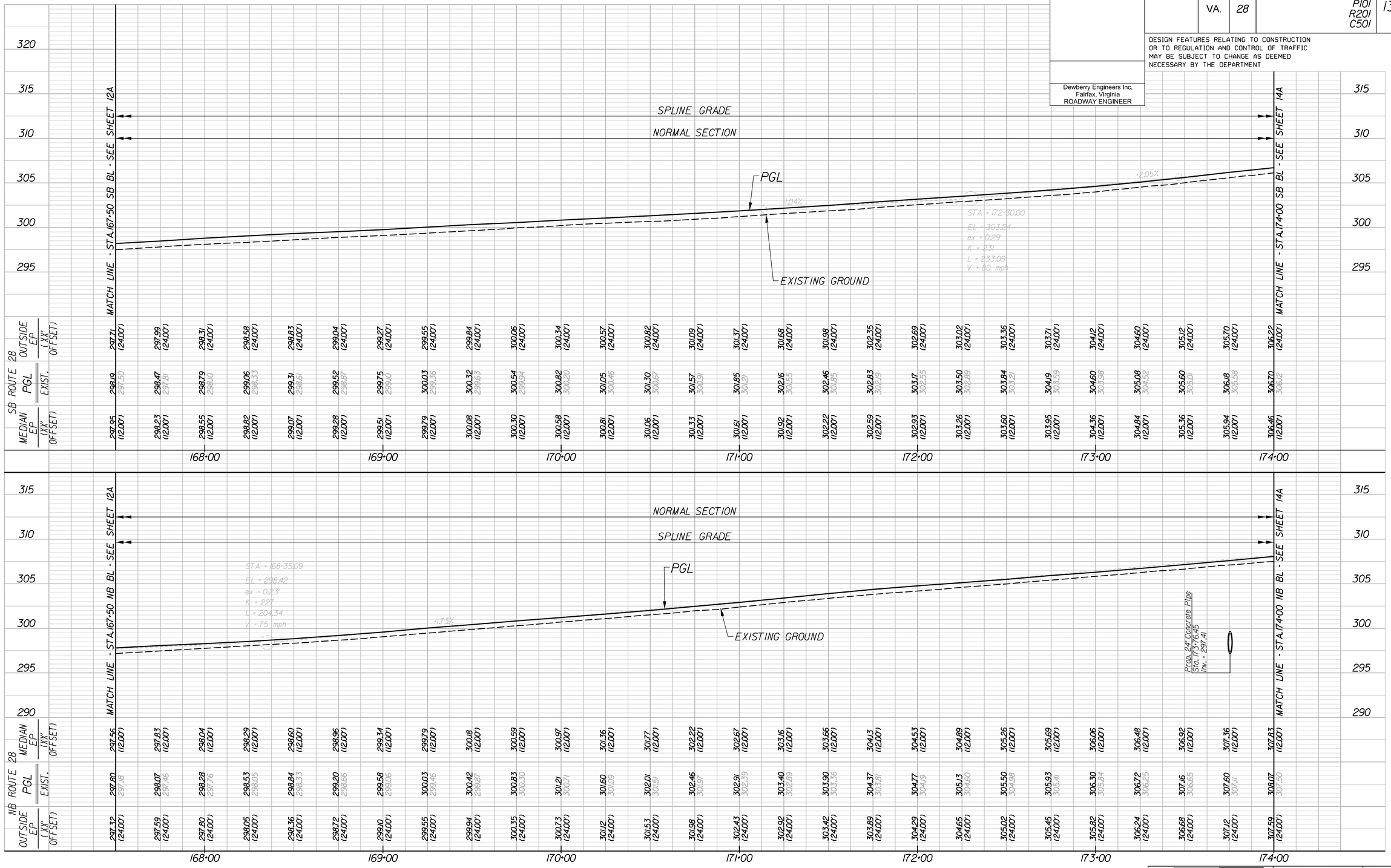
Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



NB ROUTE 28

HORIZ.	PROJECT	SHEET NO.
VERT.	0028-029-269	13A

Dewberry

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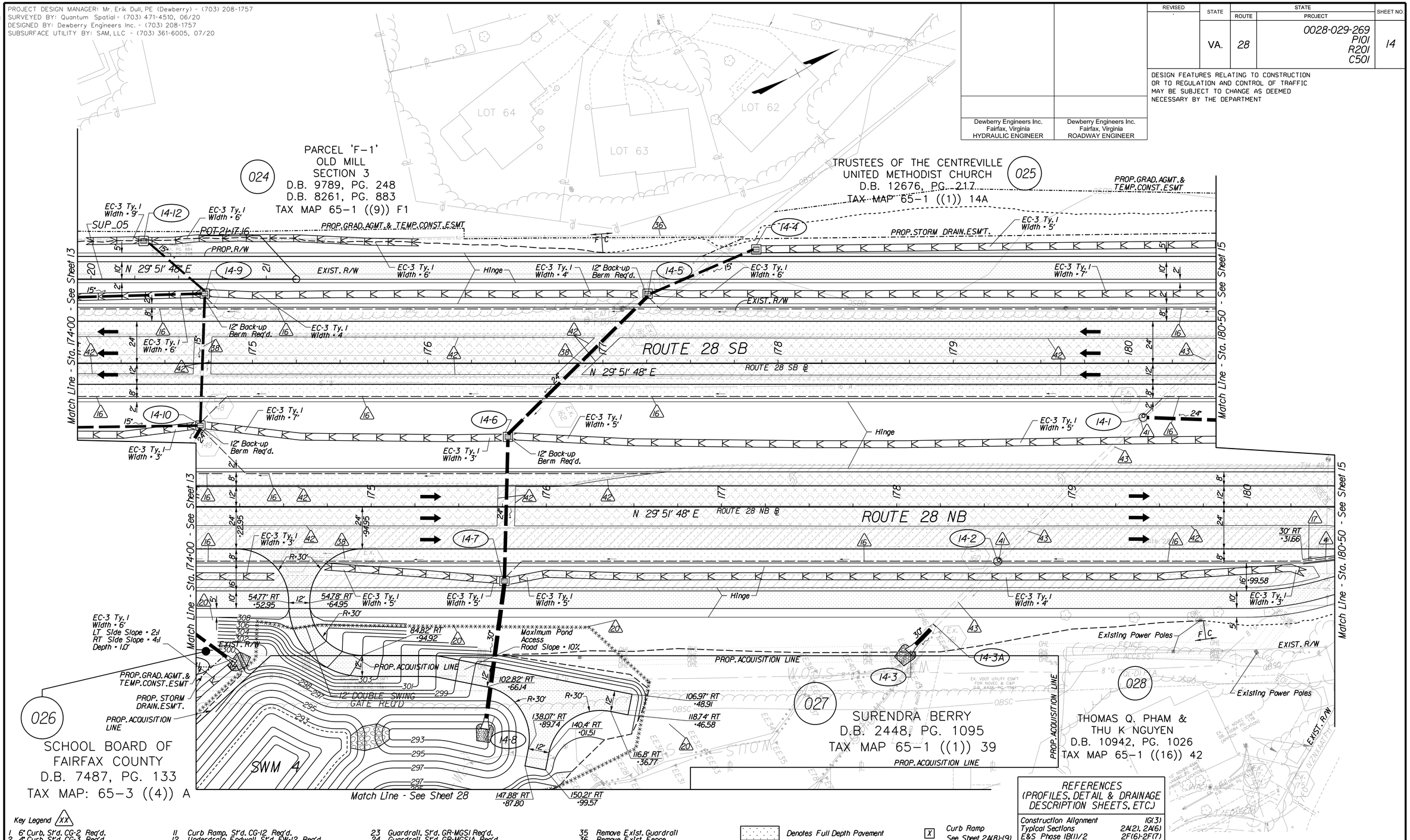
Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	14

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Key Legend (XX)

1	6" Curb, Std. CG-2 Req'd.	11	Curb Ramp, Std. CG-12 Req'd.	23	Guardrail, Std. GR-MGSI Req'd.	35	Remove Exist. Guardrail
2	4" Curb, Std. CG-3 Req'd.	12	Underdrain Endwall, Std. EW-12 Req'd.	24	Guardrail, Std. GR-MGSIA Req'd.	36	Remove Exist. Fence
3	6" Curb and Gutter, Std. CG-6 Req'd.	13	Shoulder Break Over Line	25	Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.	37	Remove Exist. Structure
4	4" Curb and Gutter, Std. CG-7 Req'd.	14	Groundwater Underdrain, Std. UD-1 Req'd.	26	Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.	38	Remove Or Abandon and Fill Exist. Pipe
5	Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.	15	Curb-Cut Opening, Drainage Flume	27	Guardrail, Std. GR-10, Type I Req'd.	39	Remove Exist. Pole
6	Not Used	16	Pavement Underdrain, Std. UD-4 Req'd.	28	Guardrail, Std. GR-10, Type II Req'd.	40	Adjust Exist. Structure
7	Conc. Raised Median, Std. MS-1A (6" Curb)	17	Pavement Underdrain, Mod. 6" UD-4 Req'd.	29	Guardrail, Std. GR-10, Type III Req'd.	41	Clean Out Exist. Structure
8	Grass Raised Median, Std. MS-2 (6" Curb)	18	Crossdrain, Std. CD-1 Req'd.	30	Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.	42	Full Depth Sawcut
9	Entrance Gutter, Std. CG-9D Req'd.	19	Crossdrain, Std. CD-2 Req'd.	31	Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.	43	Clean Out Exist. Pipe
10	Entrance, Std. CG-11 Req'd.	20	Standard Fence, Std. FE-CL Req'd.	32	Guardrail Transition, Std. GR-MGS4 Req'd.	44	10' Gutter Run Out
		21	Grass Raised Median, Std. MS-2 (4" Curb)	33	End CG-9D Entrance Type	45	Median Barrier, Std. MB-8A Req'd.
		22	Chain Link Fence, Std. FE-CL Req'd.	34	Handrail, Std. HR-1 Type III Req'd.	46	Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

(X) Curb Ramp — See Sheet 2A(8)-(9)
(CR XX) Curb Return — See Sheet 2A(7)
C ___ Denotes Construction Limits In Cuts
F ___ Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(3)
Typical Sections	2A(2), 2A(6)
E&S Phase 1B(1)/2	2F(6)-2F(7)
E&S Phase 3	2G(6)-2G(7)
Route 28 Profile	14A
SUP-5 Profile	32(6)
Drainage Descriptions	33

SCALE	PROJECT	SHEET NO.
0 25' 50'	0028-029-269	14

2/11/2021
10:59:18 AM

d108720-14Adgn
Plotted By: cjennings

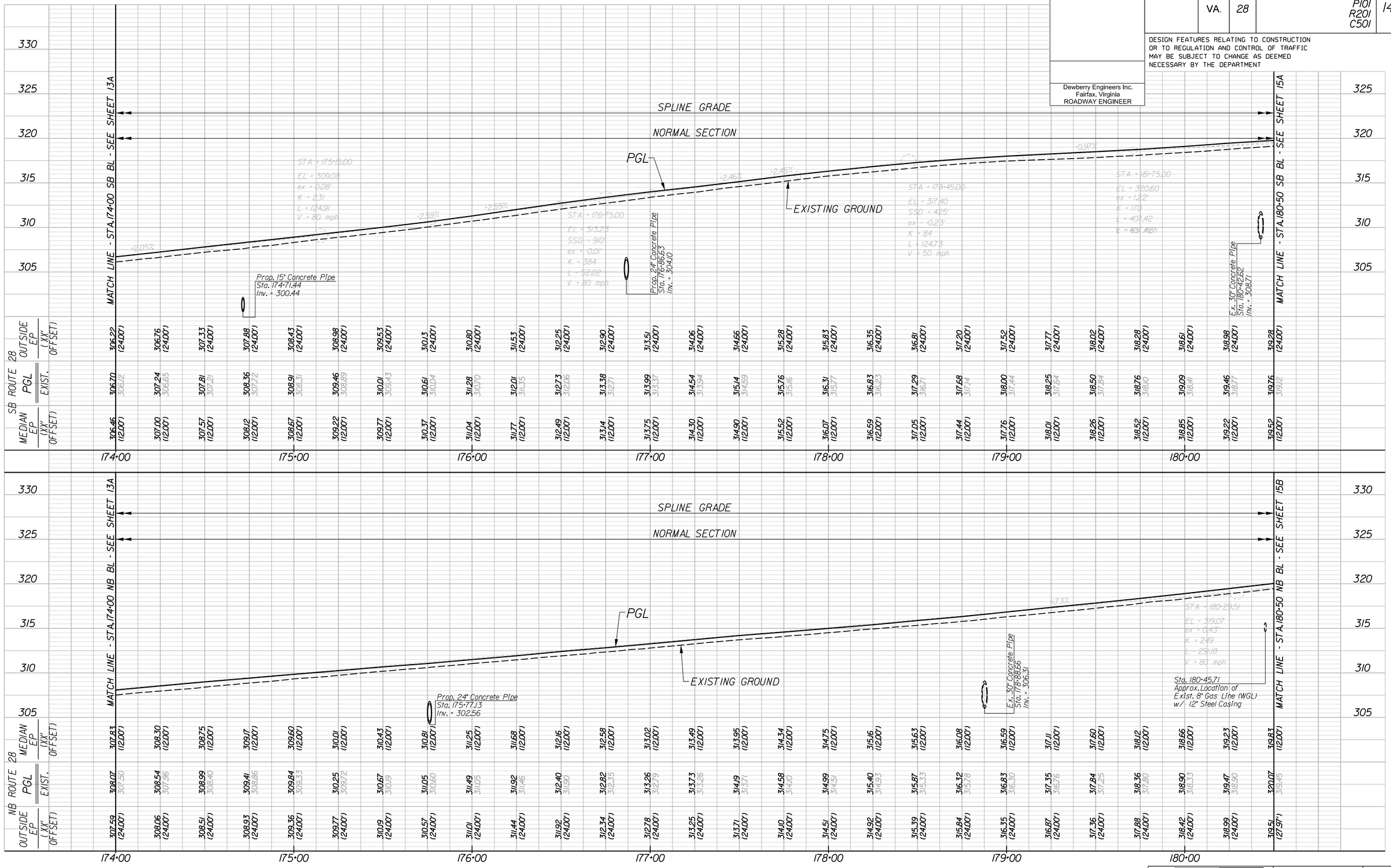
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SB ROUTE 28

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	14A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



NB ROUTE 28

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT	SHEET NO.
0028-029-269	14A

2/11/2021
11:00:31 AM

dl08720-15.dgn
Plotted By: cJennings

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated: 6-17-2020

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	15

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

TRUSTEES OF THE CENTREVILLE UNITED METHODIST CHURCH
D.B. 12676, PG. 217
TAX MAP 65-1 ((1)) 14A
025

MARIA I VASQUEZ
D.B. 20121, PG. 595
TAX MAP 65-1 ((1)) 8A1
029

CENTREVILLE ROAD LC
D.B. 10710, PG. 1262
TAX MAP 65-1 ((1)) 8B
030

Match Line - Sta. 180+50 - See Sheet 14

Match Line - Sta. 187+50 - See Sheet 16

ROUTE 28 SB
N 29° 51' 48" E
ROUTE 28 SB ℄

ROUTE 28 NB
N 29° 51' 48" E
ROUTE 28 NB ℄

EC-3 Ty. I Width = 4'
24" Back-up Berm Req'd.
PROP.GRAD.AGMT.& TEMP.CONST.ESMT
PROP.STORM DRAIN.ESM'T.
EC-3 Ty. I Width = 9'
PROP.R/W
EXIST. R/W
41.91' LT ·99.86
R=210'
41' LT ·19.38
41' LT ·74.82
Ex 15-10
Existing fence to be replaced In-kind.
58' LT ·59.13
48' LT ·68.91
EC-3 Ty. I Width = 5'
EC-3 Ty. I Width = 6'
Hinge
15-1
15-2
15-3
15-4
15-5
15-6
15-7
15-8
15-9
15-11
EC-3 Ty. I Width = 4'
EC-3 Ty. I Width = 3'
6" Back-up Berm Req'd.
12" Back-up Berm Req'd.
NB Route 28 Sta. 181+44.52
Darkwood Dr. Sta. 10+00.00
R=25'
R=27'
R=100'
24' RT ·91.88
34' RT ·52.20
32' RT ·44.09
38.22' RT ·80.94
49' RT ·31.56
1.87' RT ·76.77
8' LT ·38.62
8' LT ·89.40
8' RT ·90.73
20' RT ·38.71
CG-12 Detectable Warning Surface Req'd.
EC-3 Ty. I Width = 2'
PROP.NOISE BARRIER
EX. R/W
12' Back-up Berm Req'd.
Do not disturb existing fence
PROP.GRAD.AGMT.& TEMP.CONST.ESMT
EC-3 Ty. I Width = 5'
EC-3 Ty. I Width = 4'
EC-3 Ty. I Width = 2'
EC-3 Ty. I Width = 1'
PROP.NOISE BARRIER
EX. R/W
PROP.GRAD.AGMT.& TEMP.CONST.ESMT
028
031
032
032
DARKWOOD DR.
END CONSTRUCTION DARKWOOD DR.
STA. 10+90.73
S 29° 53' 42" E DARKWOOD DR ℄
HIEN BINH TRAN AND LINH MY HUYNH
D.B. 23933, PG. 9
TAX MAP 65-1 ((1)) 13
THOMAS Q. PHAM & THU K NGUYEN
D.B. 10942, PG. 1026
TAX MAP 65-1 ((16)) 42
COMPTON VILLAGE HOMEOWNER ASSOCIATION
D.B. 9781, PG. 1141
TAX MAP 65-1 ((15)) A
COMPTON VILLAGE HOMEOWNER ASSOCIATION
D.B. 9781, PG. 1141
TAX MAP 65-1 ((15)) A

Darkwood Intersection Medians			
	Alignment	Elev. (Ft.)	Offset/ Station
①	NB Rte. 28	320.39	25.23' RT ·74.51
②	Darkwood Dr.	321.00	27.38' RT ·52.72
③	NB Rte. 28	322.48	24' RT ·55.30
④	Darkwood Dr.	321.91	9.53' LT ·29.66

Key Legend (XX)

1 6" Curb, Std. CG-2 Req'd.
2 4" Curb, Std. CG-3 Req'd.
3 6" Curb and Gutter, Std. CG-6 Req'd.
4 4" Curb and Gutter, Std. CG-7 Req'd.
5 Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.
6 Not Used
7 Conc. Raised Median, Std. MS-1A (6" Curb)
8 Grass Raised Median, Std. MS-2 (6" Curb)
9 Entrance Gutter, Std. CG-9D Req'd.
10 Entrance, Std. CG-11 Req'd.
11 Curb Ramp, Std. CG-12 Req'd.
12 Underdrain Endwall, Std. EW-12 Req'd.
13 Shoulder Break Over Line
14 Groundwater Underdrain, Std. UD-1 Req'd.
15 Curb-Cut Opening, Drainage Flume
16 Pavement Underdrain, Std. UD-4 Req'd.
17 Pavement Underdrain, Mod. 6" UD-4 Req'd.
18 Crossdrain, Std. CD-1 Req'd.
19 Crossdrain, Std. CD-2 Req'd.
20 Standard Fence, Std. FE-CL Req'd.
21 Grass Raised Median, Std. MS-2 (4" Curb)
22 Chain Link Fence, Std. FE-CL Req'd.
23 Guardrail, Std. GR-MGS1 Req'd.
24 Guardrail, Std. GR-MGS1A Req'd.
25 Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.
26 Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.
27 Guardrail, Std. GR-10, Type I Req'd.
28 Guardrail, Std. GR-10, Type II Req'd.
29 Guardrail, Std. GR-10, Type III Req'd.
30 Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.
31 Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.
32 Guardrail Transition, Std. GR-MGS4 Req'd.
33 End CG-9D Entrance Type
34 Handrail, Std. HR-1 Type III Req'd.
35 Remove Exist. Guardrail
36 Remove Exist. Fence
37 Remove Exist. Structure
38 Remove Or Abandon and Fill Exist. Pipe
39 Remove Exist. Pole
40 Adjust Exist. Structure
41 Clean Out Exist. Structure
42 Full Depth Sawcut
43 Clean Out Exist. Pipe
44 10' Gutter Run Out
45 Median Barrier, Std. MB-8A Req'd.
46 Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

X — Curb Ramp See Sheet 2A(8)-(9)
CR XX — Curb Return See Sheet 2A(7)
C — Denotes Construction Limits In Cuts
F — Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(3)
Typical Sections	2A(2), 2A(6)
E&S Phase 1B(1)/2	2F(7)
E&S Phase 3	2G(7)
Darkwood Dr. Profile	8B
Route 28 SB Profile	15A
Route 28 NB Profile	15B
Drainage Descriptions	33

SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	15

Dewberry

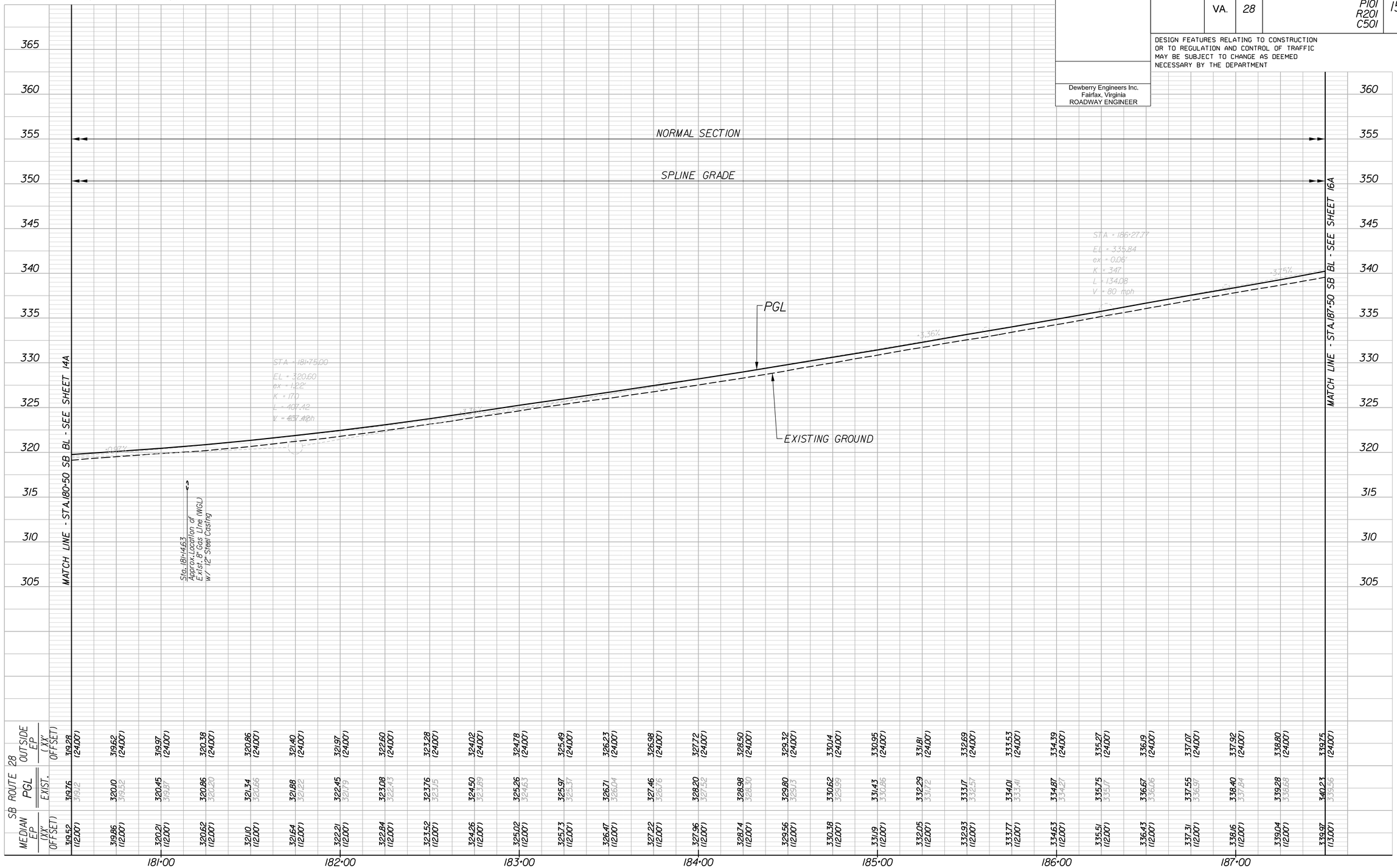
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SB ROUTE 28

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	15A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



SB ROUTE 28	MEDIAN EP (XX' OFFSET)	PGL EXIST.	OUTSIDE EP (XX' OFFSET)
	319.52 (12.00')	319.76 319.12	319.28 (24.00')
	319.86 (12.00')	320.10 319.52	319.62 (24.00')
	320.21 (12.00')	320.45 319.87	319.97 (24.00')
	320.62 (12.00')	320.86 320.20	320.38 (24.00')
	321.10 (12.00')	321.34 320.66	320.86 (24.00')
	321.64 (12.00')	321.88 321.22	321.40 (24.00')
	322.21 (12.00')	322.45 321.79	321.97 (24.00')
	322.84 (12.00')	323.08 322.43	322.60 (24.00')
	323.52 (12.00')	323.76 323.15	323.28 (24.00')
	324.26 (12.00')	324.50 323.89	324.02 (24.00')
	325.02 (12.00')	325.26 324.63	324.78 (24.00')
	325.73 (12.00')	325.97 325.37	325.49 (24.00')
	326.47 (12.00')	326.71 326.04	326.23 (24.00')
	327.22 (12.00')	327.46 326.78	326.98 (24.00')
	327.96 (12.00')	328.20 327.52	327.72 (24.00')
	328.74 (12.00')	328.98 328.30	328.50 (24.00')
	329.56 (12.00')	329.80 329.13	329.32 (24.00')
	330.38 (12.00')	330.62 329.99	330.14 (24.00')
	331.19 (12.00')	331.43 330.86	330.95 (24.00')
	332.05 (12.00')	332.29 331.72	331.81 (24.00')
	332.93 (12.00')	333.17 332.67	332.69 (24.00')
	333.77 (12.00')	334.01 333.41	333.53 (24.00')
	334.63 (12.00')	334.87 334.27	334.39 (24.00')
	335.51 (12.00')	335.75 335.17	335.27 (24.00')
	336.43 (12.00')	336.67 336.06	336.19 (24.00')
	337.31 (12.00')	337.55 336.97	337.07 (24.00')
	338.16 (12.00')	338.40 337.84	337.92 (24.00')
	339.04 (12.00')	339.28 338.68	338.80 (24.00')
	339.97 (13.00')	340.23 339.56	339.75 (24.00')

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT	SHEET NO.
0028-029-269	15A

2/11/2021
11:02:50 AM

d108720-15B.dgn
Plotted By: cjennings

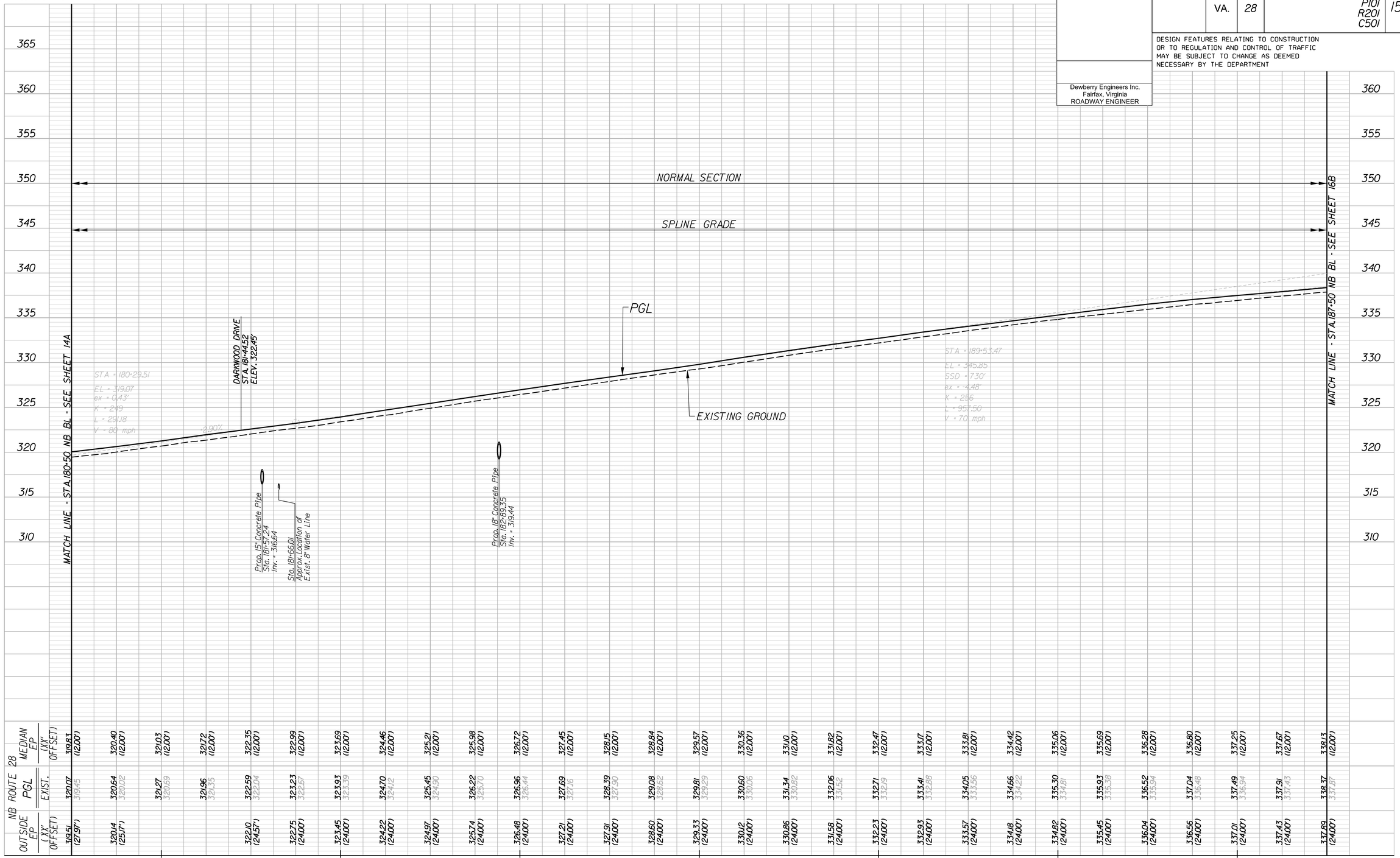
Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	15B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



NB ROUTE 28 OUTSIDE EP (XX' OFFSET)	PGL / EXIST.	MEDIAN EP (XX' OFFSET)
319.51 (27.97')	320.07 319.45	319.83 (12.00')
320.14 (25.17')	320.64 320.02	320.40 (12.00')
	321.27 320.69	321.03 (12.00')
	321.96 321.35	321.72 (12.00')
	322.59 322.04	322.35 (12.00')
322.10 (24.57')		
322.75 (24.00')	323.23 322.67	322.99 (12.00')
323.45 (24.00')	323.93 323.39	323.69 (12.00')
324.22 (24.00')	324.70 324.12	324.46 (12.00')
324.97 (24.00')	325.45 324.90	325.21 (12.00')
325.74 (24.00')	326.22 325.70	325.98 (12.00')
326.48 (24.00')	326.96 326.44	326.72 (12.00')
327.21 (24.00')	327.69 327.16	327.45 (12.00')
327.91 (24.00')	328.39 327.90	328.15 (12.00')
328.60 (24.00')	329.08 328.62	328.84 (12.00')
329.33 (24.00')	329.81 329.29	329.57 (12.00')
330.12 (24.00')	330.60 330.06	330.36 (12.00')
330.86 (24.00')	331.34 330.82	331.10 (12.00')
331.58 (24.00')	332.06 331.52	331.82 (12.00')
332.23 (24.00')	332.71 332.19	332.47 (12.00')
332.93 (24.00')	333.41 332.88	333.17 (12.00')
333.57 (24.00')	334.05 333.56	333.81 (12.00')
334.18 (24.00')	334.66 334.22	334.42 (12.00')
334.82 (24.00')	335.30 334.81	335.06 (12.00')
335.45 (24.00')	335.93 335.38	335.69 (12.00')
336.04 (24.00')	336.52 335.94	336.28 (12.00')
336.56 (24.00')	337.04 336.48	336.80 (12.00')
337.01 (24.00')	337.49 336.94	337.25 (12.00')
337.43 (24.00')	337.91 337.43	337.67 (12.00')
337.89 (24.00')	338.37 337.87	338.13 (12.00')

NB ROUTE 28

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT 0028-029-269
SHEET NO. 15B

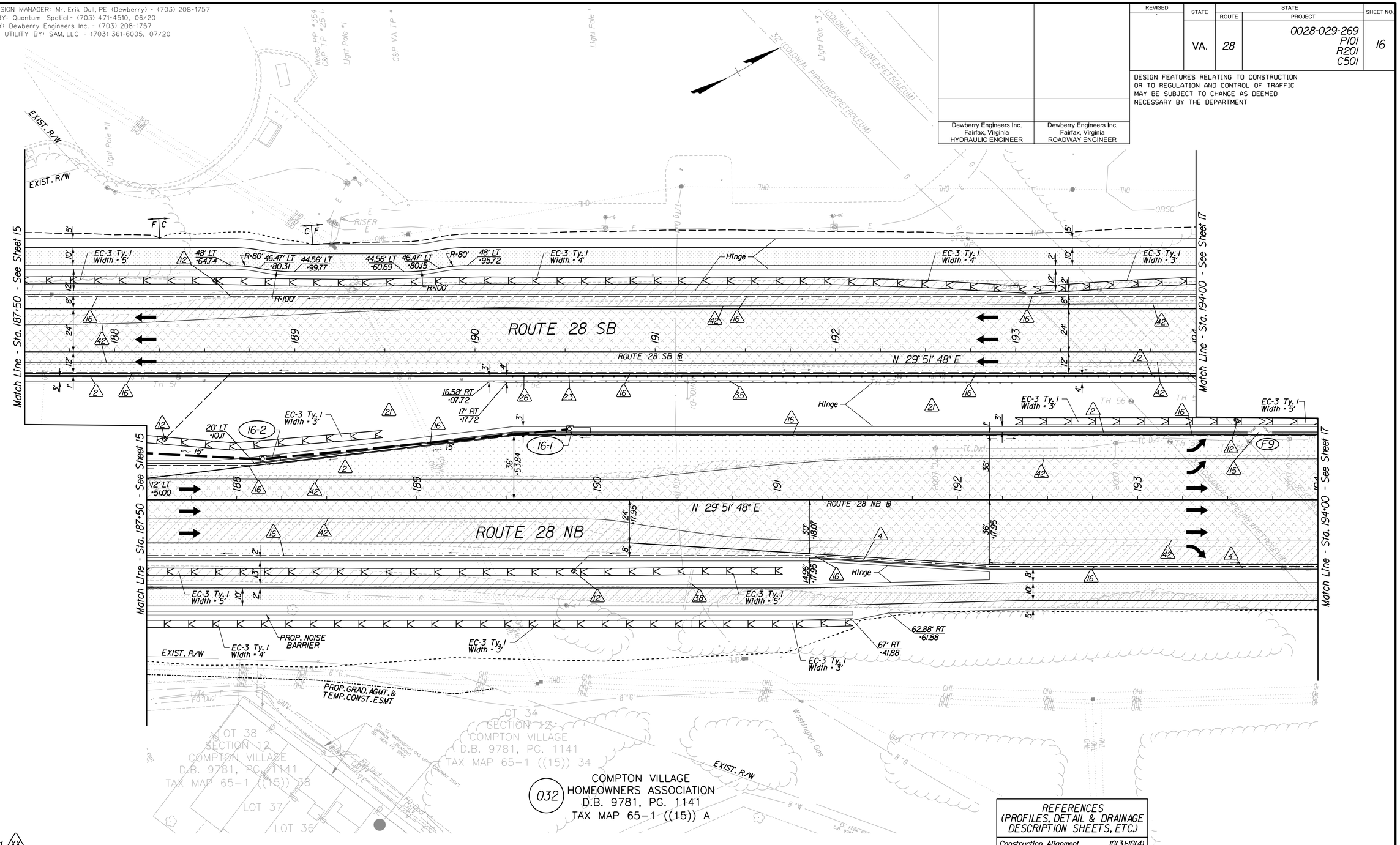
Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	16

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER



Key Legend (XX)

1	6" Curb, Std. CG-2 Req'd.	11	Curb Ramp, Std. CG-12 Req'd.	23	Guardrail, Std. GR-MGS1 Req'd.	35	Remove Exist. Guardrail
2	4" Curb, Std. CG-3 Req'd.	12	Underdrain Endwall, Std. EW-12 Req'd.	24	Guardrail, Std. GR-MGS1A Req'd.	36	Remove Exist. Fence
3	6" Curb and Gutter, Std. CG-6 Req'd.	13	Shoulder Break Over Line	25	Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.	37	Remove Exist. Structure
4	4" Curb and Gutter, Std. CG-7 Req'd.	14	Groundwater Underdrain, Std. UD-1 Req'd.	26	Guardrail Trailing End Acharage, Std. GR-MGS3 Req'd.	38	Remove Or Abandon and Fill Exist. Pipe
5	Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.	15	Curb-Cut Opening, Drainage Flume	27	Guardrail, Std. GR-10, Type I Req'd.	39	Remove Exist. Pole
		16	Pavement Underdrain, Std. UD-4 Req'd.	28	Guardrail, Std. GR-10, Type II Req'd.	40	Adjust Exist. Structure
6	Not Used	17	Pavement Underdrain, Mod. 6" UD-4 Req'd.	29	Guardrail, Std. GR-10, Type III Req'd.	41	Clean Out Exist. Structure
7	Conc. Raised Median, Std. MS-1A (6" Curb)	18	Crossdrain, Std. CD-1 Req'd.	30	Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.	42	Full Depth Sawcut
		19	Crossdrain, Std. CD-2 Req'd.	31	Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.	43	Clean Out Exist. Pipe
8	Grass Raised Median, Std. MS-2 (6" Curb)	20	Standard Fence, Std. FE-CL Req'd.	32	Guardrail Transition, Std. GR-MGS4 Req'd.	44	10' Gutter Run Out
9	Entrance Gutter, Std. CG-9D Req'd.	21	Grass Raised Median, Std. MS-2 (4" Curb)	33	End CG-9D Entrance Type	45	Median Barrier, Std. MB-8A Req'd.
10	Entrance, Std. CG-11 Req'd.	22	Chain Link Fence, Std. FE-CL Req'd.	34	Handrail, Std. HR-1 Type III Req'd.	46	Pavement Demarcation Line

Denotes Full Depth Pavement

Denotes SUP/Driveway /Private Entrance Pavement

Denotes Pavement Demolition

Denotes Milling and Overlay / Variable Depth Overlay

X — Curb Ramp — See Sheet 2A(8)-(9)

CR XX — Curb Return — See Sheet 2A(7)

C — Denotes Construction Limits In Cuts

F — Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	16

Dewberry

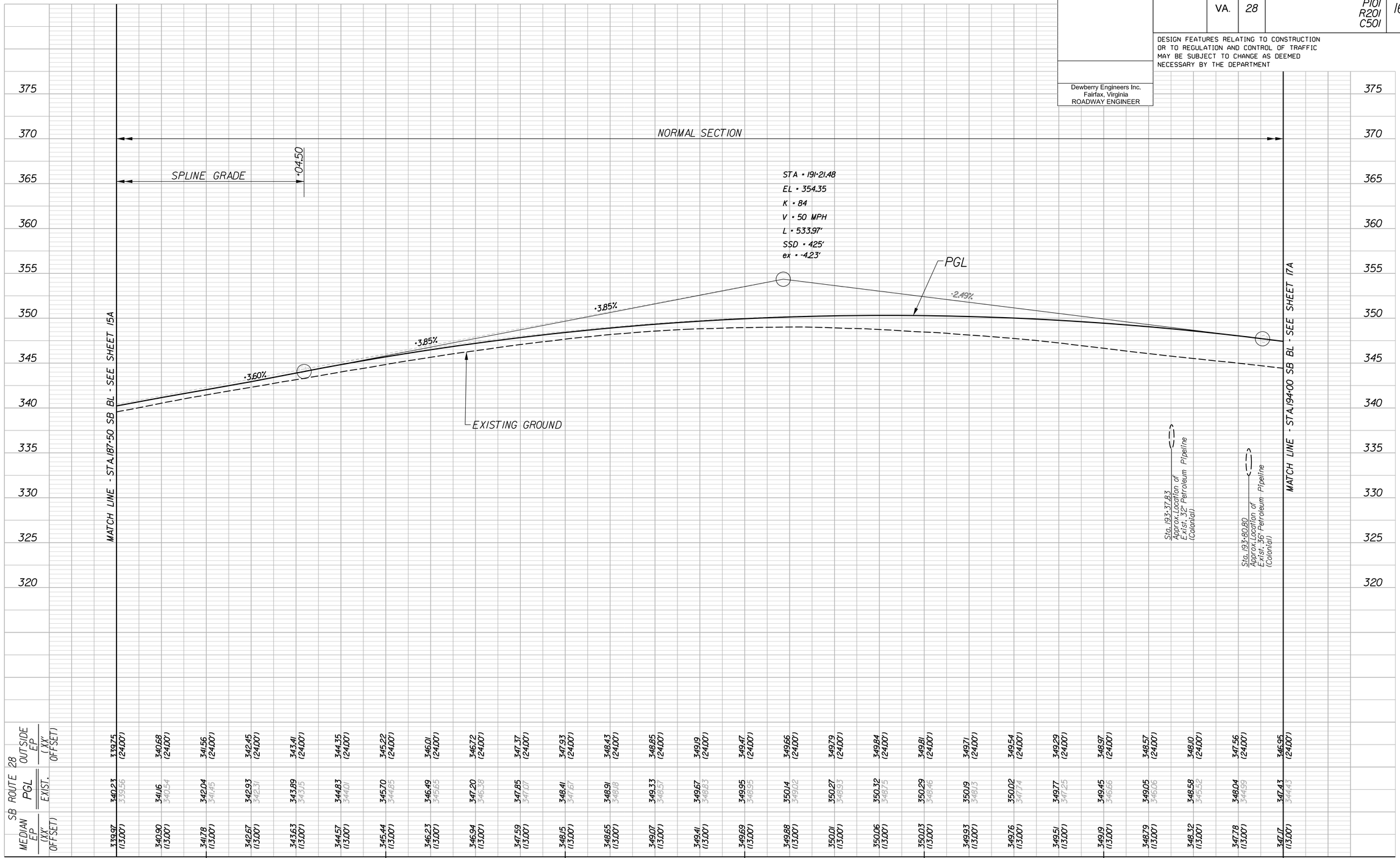
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SB ROUTE 28

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	16A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



SB ROUTE 28

MEDIAN EP (XX' OFFSET)	PGL EXIST.	OUTSIDE EP (XX' OFFSET)
339.97 (13.00')	340.23 339.56	339.75 (24.00')
340.90 (13.00')	341.16 340.54	340.68 (24.00')
341.78 (13.00')	342.04 341.45	341.56 (24.00')
342.67 (13.00')	342.93 342.31	342.45 (24.00')
343.63 (13.00')	343.89 343.25	343.41 (24.00')
344.57 (13.00')	344.83 344.01	344.35 (24.00')
345.44 (13.00')	345.70 344.85	345.22 (24.00')
346.23 (13.00')	346.49 345.65	346.01 (24.00')
346.94 (13.00')	347.20 346.38	346.72 (24.00')
347.59 (13.00')	347.85 347.07	347.37 (24.00')
348.15 (13.00')	348.41 347.67	347.93 (24.00')
348.65 (13.00')	348.91 348.18	348.43 (24.00')
349.07 (13.00')	349.33 348.57	348.85 (24.00')
349.41 (13.00')	349.67 348.83	349.19 (24.00')
349.69 (13.00')	349.95 348.95	349.47 (24.00')
349.88 (13.00')	350.14 349.02	349.66 (24.00')
350.01 (13.00')	350.27 349.13	349.79 (24.00')
350.06 (13.00')	350.32 348.75	349.84 (24.00')
350.03 (13.00')	350.29 348.46	349.81 (24.00')
349.93 (13.00')	350.19 348.13	349.71 (24.00')
349.76 (13.00')	350.02 347.74	349.54 (24.00')
349.51 (13.00')	349.77 347.25	349.29 (24.00')
349.19 (13.00')	349.45 346.66	348.97 (24.00')
348.79 (13.00')	349.05 346.06	348.57 (24.00')
348.32 (13.00')	348.58 345.52	348.10 (24.00')
347.78 (13.00')	348.04 344.99	347.56 (24.00')
347.17 (13.00')	347.43 344.43	346.95 (24.00')

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT	SHEET NO.
0028-029-269	16A

2/11/2021
11:06:50 AM

d108720-16B.dgn
Plotted By: cjennings

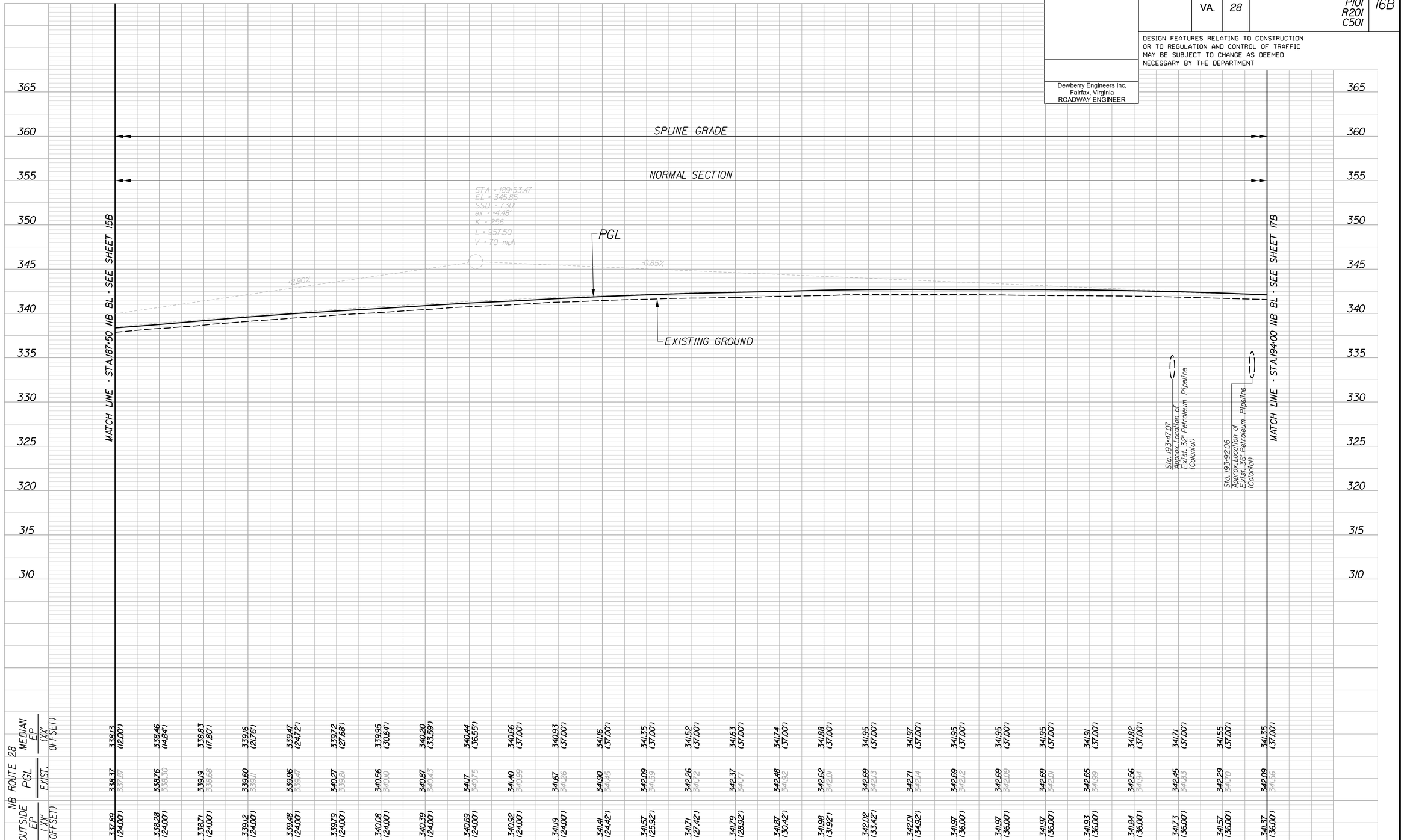
Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	16B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



NB ROUTE 28	OUTSIDE EP (XX' OFFSET)	PGL EXIST.	MEDIAN EP (XX' OFFSET)
188+00	337.89 (24.00')	338.37 337.87	338.13 (12.00')
188+28	338.28 (24.00')	338.76 338.30	338.46 (14.84')
188+71	338.71 (24.00')	339.19 338.68	338.83 (17.80')
189+12	339.12 (24.00')	339.60 339.11	339.16 (21.76')
189+48	339.48 (24.00')	339.96 339.47	339.47 (24.72')
189+79	339.79 (24.00')	340.27 339.81	339.72 (27.68')
190+08	340.08 (24.00')	340.56 340.10	339.95 (30.64')
190+39	340.39 (24.00')	340.87 340.43	340.20 (33.59')
190+68	340.68 (24.00')	341.17 340.75	340.44 (36.55')
190+92	340.92 (24.00')	341.40 340.99	340.66 (37.00')
191+19	341.19 (24.00')	341.67 341.26	340.93 (37.00')
191+41	341.41 (24.42')	341.90 341.45	341.16 (37.00')
191+57	341.57 (25.92')	342.09 341.59	341.35 (37.00')
191+71	341.71 (27.42')	342.26 341.72	341.52 (37.00')
191+79	341.79 (28.92')	342.37 341.77	341.63 (37.00')
191+87	341.87 (30.42')	342.48 341.82	341.74 (37.00')
191+98	341.98 (31.92')	342.62 342.01	341.88 (37.00')
192+02	342.02 (33.42')	342.69 342.13	341.95 (37.00')
192+01	342.01 (34.92')	342.71 342.14	341.97 (37.00')
191+97	341.97 (36.00')	342.69 342.12	341.95 (37.00')
191+97	341.97 (36.00')	342.69 342.09	341.95 (37.00')
191+97	341.97 (36.00')	342.69 342.11	341.95 (37.00')
191+93	341.93 (36.00')	342.65 341.99	341.91 (37.00')
191+84	341.84 (36.00')	342.56 341.89	341.82 (37.00')
191+73	341.73 (36.00')	342.45 341.63	341.71 (37.00')
191+57	341.57 (36.00')	342.29 341.70	341.55 (37.00')
191+37	341.37 (36.00')	342.09 341.56	341.35 (37.00')

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT	SHEET NO.
0028-029-269	16B

2/11/2021
11:08:03 AM

d108720-17.dgn
Plotted By: c Jennings

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated: 6-17-2020

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	17

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Curve NBW-1
PI • 12+05.84
DELTA • 31° 41' 58.80" (LT)
D • 7° 54' 10"
T • 205.84'
L • 401.12'
R • 725.00'
PC • 10+00.00
PT • 14+01.12

NEW BRADDOCK RD WEST (ROUTE 8350)

Match Line - Sta. 11+50 - See Sheet 29

Match Line - Sta. 194+00 - See Sheet 16

Match Line - Sta. 200+50 - See Sheet 18

NEW BRADDOCK RD WEST @

SB Route 28 Sta. 197+20.66 • New Braddock Rd. West Sta. 10+00.00

N 29° 51' 48" E

ROUTE 28 SB @

PC10+00.00

ROUTE 28 SB

NB Route 28 Sta. 196+91.16 New Braddock Rd. East Sta. 10+00.00

ROUTE 28 NB @

PC10+00.00

PT 10+17.88

S 80° 08' 20" E

NEW BRADDOCK RD @

ROUTE 28 NB

NEW BRADDOCK RD EAST (ROUTE 7783)

Match Line - Sta. 11+50 - See Sheet 30

EXIST. R/W

EX 17-23

EX 17-22

EX 17-16

EX 17-21

EX 17-20

17-1 17-2 17-3 17-4 17-5 17-6 17-7 17-8 17-9 17-10 17-11 17-12 17-13 17-14 17-17 17-18 17-19

F10 F12 F13 F14 F15 F16 F17 F18 F19

Type B R=1.90' R=102' R=40' R=8' R=249' R=74' R=5' R=84' R=22.4' R=54' R=77' R=1.88'

CR 13 CR 14 CR 15 CR 16

32' LT •55.81
61.05' RT •36.51
36' LT •24.11
36' RT •93.64
17' RT •62.30
17' RT •41.07
13' RT •57.72
14.76' RT •55.05
36' LT •20.78
55.05' RT •70.00
46.5' •69.32
56.88' LT •23.46
14.03' RT •49.06
47.81' RT •18.43

EC-3 Ty. I Width • 3' Hinge
EC-3 Ty. I Width • 4'
EC-3 Ty. I Width • 8'
EC-3 Ty. I Width • 5'
EC-3 Ty. I Width • 6'
EC-3 Ty. I Width • 2'

CG-12 Type R12 Req'd.

Hinge

COLONIAL PIPELINE COMPANY
D.B. 25206, PG. 688
034 TAX MAP 65-2 ((2)) 2A

COLONIAL PIPE LINE COMPANY
D.B. 25206, PG. 688
035 TAX MAP 65-2 ((2)) 1B

PROP. GRAD. AGMT. & TEMP. CONST. ESMT

PROP. GRAD. AGMT. & TEMP. CONST. ESMT

PROP. PERM. ESM'T.

Curve NBE-1
PI • 10+08.94
DELTA • 1° 24' 47.49" (RT)
D • 7° 54' 10"
T • 8.94'
L • 17.88'
R • 725.00'
PC • 10+00.00
PT • 10+17.88

New Braddock Intersection Medians

	Alignment	Elev. (Ft.)	Offset/ Station
①	SB Rte. 28	341.19	32.68' RT •45.83
②	NB Rte. 28	340.97	39.91' LT •77.55
③	NB Rte. 28	340.09	37' LT •57.01
④	SB Rte. 28	343.19	13.43' RT •63.40
⑤	SB Rte. 28	339.27	44.48' RT •13.14
⑥	SB Rte. 28	338.81	37.35' RT •40.10
⑦	SB Rte. 28	338.74	37' RT •53.93
⑧	NB Rte. 28	338.92	15.24' LT •95.45
⑨	NB Rte. 28	338.93	17.85' LT •80.67
⑩	NB Rte. 28	339.27	28.30' LT •45.67
⑪	New Braddock	339.69	3.70' RT •79.36
⑫	New Braddock	339.44	7.50' RT •79.39
⑬	New Braddock	337.79	13.99' RT •94.08
⑭	New Braddock	338.01	10.24' RT •94.08

Key Legend (XX)

1 6" Curb, Std. CG-2 Req'd.
2 4" Curb, Std. CG-3 Req'd.
3 6" Curb and Gutter, Std. CG-6 Req'd.
4 4" Curb and Gutter, Std. CG-7 Req'd.
5 Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.
6 Not Used
7 Conc. Raised Median, Std. MS-1A (6" Curb)
8 Grass Raised Median, Std. MS-2 (6" Curb)
9 Entrance Gutter, Std. CG-9D Req'd.
10 Entrance, Std. CG-11 Req'd.
11 Curb Ramp, Std. CG-12 Req'd.
12 Underdrain Endwall, Std. EW-12 Req'd.
13 Shoulder Break Over Line
14 Groundwater Underdrain, Std. UD-1 Req'd.
15 Curb-Cut Opening, Drainage Flume
16 Pavement Underdrain, Std. UD-4 Req'd.
17 Pavement Underdrain, Mod. 6" UD-4 Req'd.
18 Crossdrain, Std. CD-1 Req'd.
19 Crossdrain, Std. CD-2 Req'd.
20 Standard Fence, Std. FE-CL Req'd.
21 Grass Raised Median, Std. MS-2 (4" Curb)
22 Chain Link Fence, Std. FE-CL Req'd.
23 Guardrail, Std. GR-MGS1 Req'd.
24 Guardrail, Std. GR-MGS1A Req'd.
25 Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.
26 Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.
27 Guardrail, Std. GR-10, Type I Req'd.
28 Guardrail, Std. GR-10, Type II Req'd.
29 Guardrail, Std. GR-10, Type III Req'd.
30 Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.
31 Fixed Object Att., Std. GR-FOA-2 Ty. II Req'd.
32 Guardrail Transition, Std. GR-MGS4 Req'd.
33 End CG-9D Entrance Type
34 Handrail, Std. HR-1 Type III Req'd.
35 Remove Exist. Guardrail
36 Remove Exist. Fence
37 Remove Exist. Structure
38 Remove Or Abandon and Fill Exist. Pipe
39 Remove Exist. Pole
40 Adjust Exist. Structure
41 Clean Out Exist. Structure
42 Full Depth Sawcut
43 Clean Out Exist. Pipe
44 10' Gutter Run Out
45 Median Barrier, Std. MB-8A Req'd.
46 Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

X Curb Ramp See Sheet 2A(8)-(9)
CR XX Curb Return See Sheet 2A(7)
C Denotes Construction Limits In Cuts
F Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	17

Dewberry

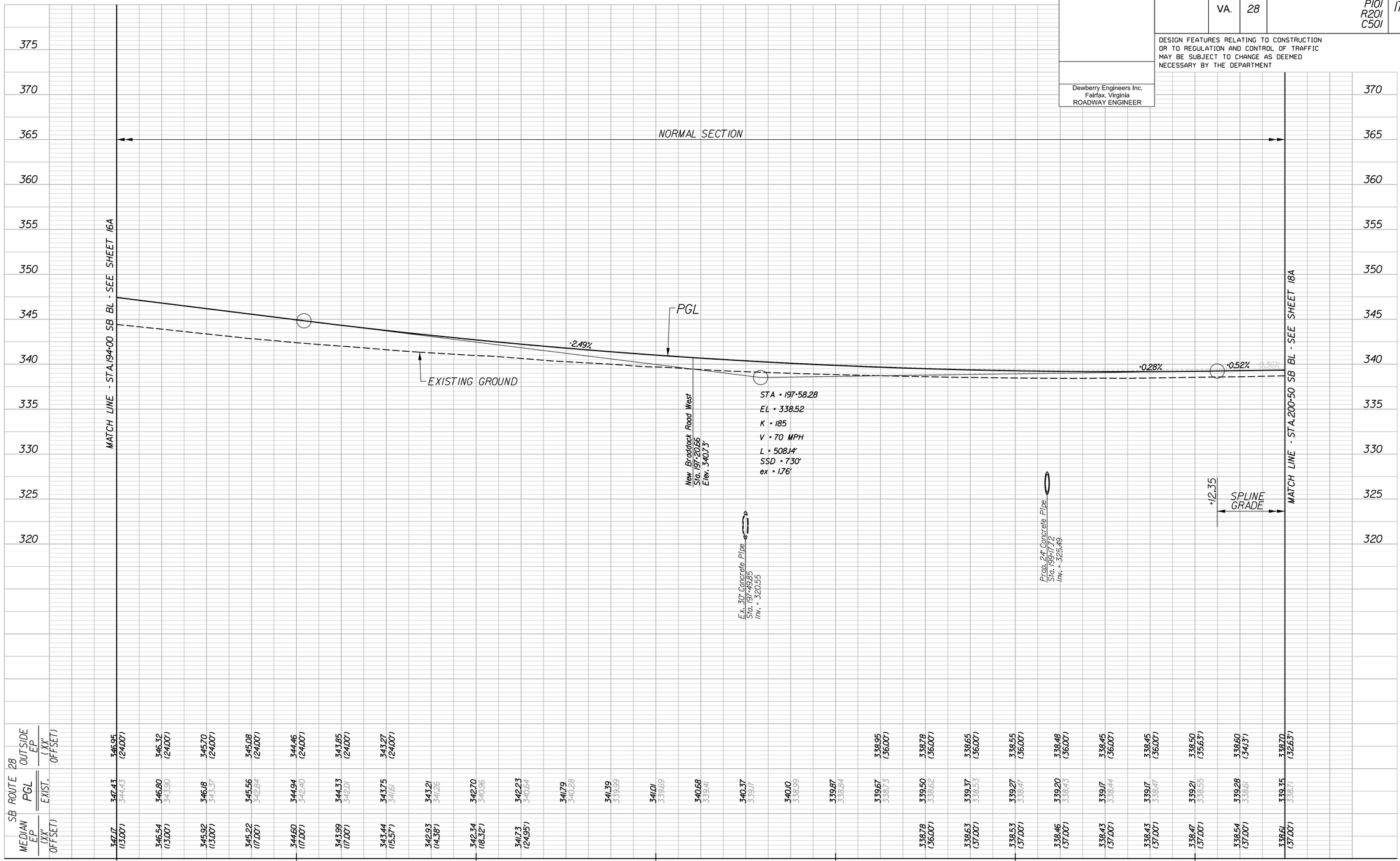
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SB ROUTE 28

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	17A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



SB ROUTE 28	MEDIAN EP (XX' OFFSET)	PGL EXIST.	OUTSIDE EP (XX' OFFSET)
	347.17 (13.00')	347.43 344.43	346.95 (24.00')
	346.54 (13.00')	346.80 343.80	346.32 (24.00')
	345.92 (13.00')	346.18 343.37	345.70 (24.00')
	345.22 (17.00')	345.56 342.84	345.08 (24.00')
	344.60 (17.00')	344.94 342.40	344.46 (24.00')
	343.99 (17.00')	344.33 342.01	343.85 (24.00')
	343.44 (15.57')	343.75 341.61	343.27 (24.00')
	342.93 (14.38')	343.21 341.26	
	342.34 (18.32')	342.70 340.56	
	341.73 (24.95')	342.23 340.64	
		341.79 340.28	
		341.39 339.99	
		341.01 339.69	
		340.68 339.41	
		340.37 339.17	
		340.10 338.99	
		339.87 338.84	
	339.67 (36.00')	339.95 338.73	
	338.78 (36.00')	339.50 338.62	
	338.63 (37.00')	339.37 338.53	
	338.53 (37.00')	339.27 338.47	
	338.46 (37.00')	339.20 338.43	
	338.43 (37.00')	339.17 338.44	
	338.43 (37.00')	339.17 338.47	338.45 (36.00')
	338.41 (37.00')	339.21 338.55	338.50 (356.3')
	338.54 (37.00')	339.28 338.61	338.60 (341.3')
	338.61 (37.00')	339.35 338.71	338.70 (326.3')

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT	SHEET NO.
0028-029-269	17A

2/11/2021
11:10:15 AM

d108720-17B.dgn
Plotted By: cjennings

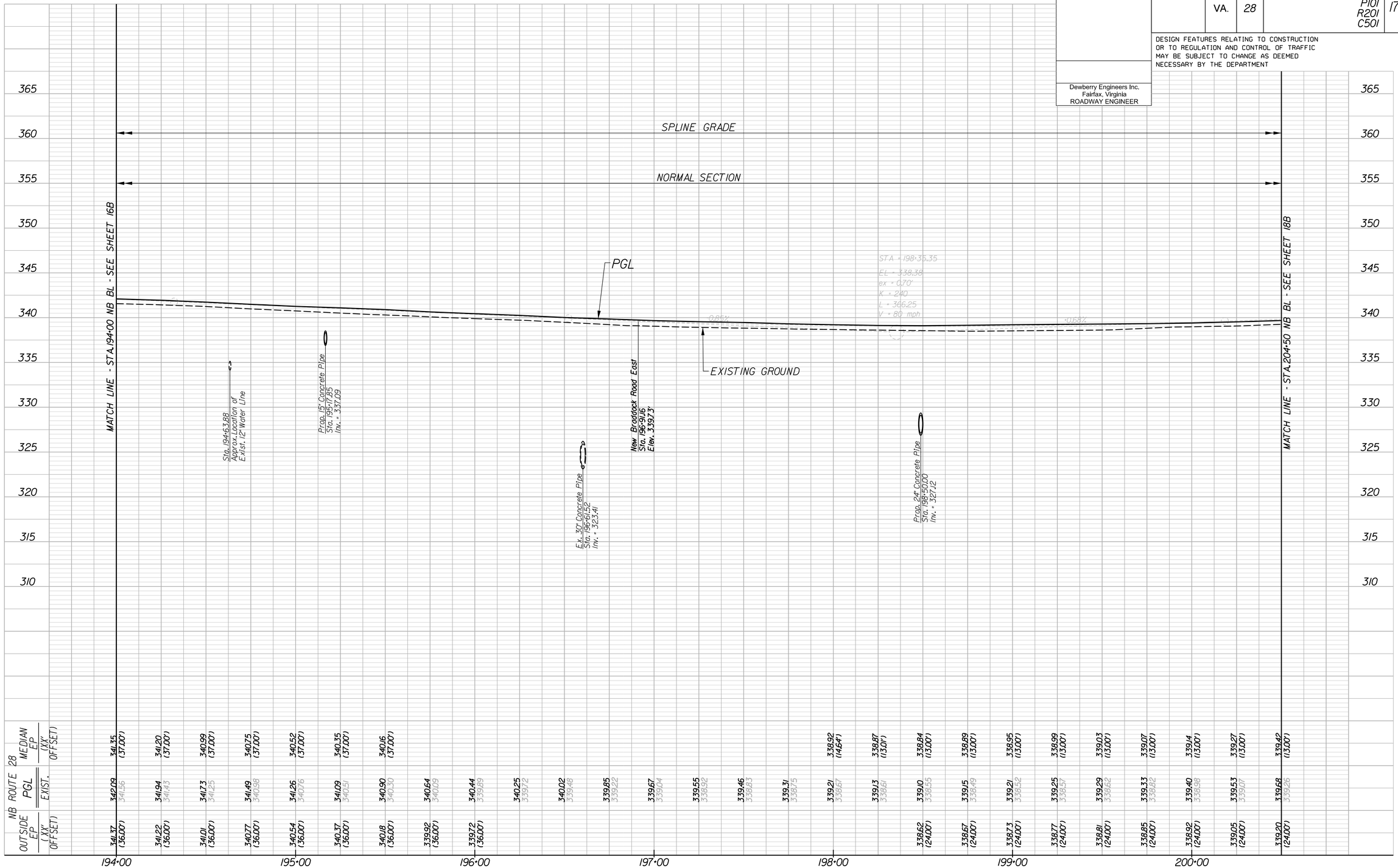
Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	17B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



NB ROUTE 28

HORIZ.	0	25'	50'
VERT.	0	5'	10'

PROJECT	SHEET NO.
0028-029-269	17B

2/11/2021
11:11:26 AM

d108720-18.dgn
Plotted By: c Jennings

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated: 6-17-2020

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	18

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER

Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

033 EPT NINETEEN, INC D.B. 20847, PG. 1832 TAX MAP 65-2 ((1)) 28

036 CENTRE MED OWNER LLC D.B. 26020, PG. 227 TAX MAP 65-2 ((1)) 14A

Ⓐ Begin Retaining Wall 02 (RW-3)
Sta. 10+00.00 • Route 28 SB
Sta. 206+30.00
N 6,986,964.1350
E 11,786,232.1160
(See Sheet 23(18) for Retaining Wall Profile and Details)

Match Line - Sta. 200+50 - See Sheet 17

Match Line - Sta. 207+00 - See Sheet 19

Match Line See Sheet 30

ROUTE 28 SB

ROUTE 28 NB

ROUTE 28 SB ℄ N 29° 51' 48" E

ROUTE 28 NB ℄ N 29° 51' 48" E

EXIST. R/W

PERM. UTILITY ESM'T.

PROP. R/W

PERM. UTILITY ESM'T. PROP. GRAD. AGMT. & TEMP. CONST. ESMT

Fill Limits

Retaining Wall 02

POT 10+00.00

Hinge

12' Back-up Berm Req'd.

EC-3 Ty. I Width • 2'

EC-3 Ty. I Width • 5'

EC-3 Ty. I Width • 7'

EC-3 Ty. I Width • 4'

EC-3 Ty½ I Width • 2'

EC-3 Ty½ I Width • 7'

Underground SWM Facility 9

Underground SWM Facility access Roads to be built with the Shared Use Path pavement section.

EX. COMMUNITY FEATURES ESMT. D.B. 7825, PG. 416

EX. STORM DRAIN ESMT. D.B. 8423, PG. 818

EX. UTILITY ESM'T FOR NOVEC & C&P D.B. 6431, PG. 447

EX. UTILITY ESM'T FOR NOVEC & C&P D.B. 6424, PG. 665

EX. DESIGNATION FOR FUTURE ROADWAY IMPROVEMENTS TO BE MODIFIED WITH FUTURE ROAD IMPROVEMENTS D.B. 11088, PG. 1472

APPROX. LOCATION OF EX. 80' NOVEC ESMT. D.B. 10387, PG. 433

APPROX. LOCATION OF EX. 15' NOVEC ESMT. D.B. 10387, PG. 453

SWM Access Road Entrance		
	Alignment	Offset/ Station
①	NB Rte. 28	33.75' RT • 79.64
②	NB Rte. 28	31.25' RT • 94.76
③	NB Rte. 28	40.15' RT • 86.71
④	NB Rte. 28	39' RT • 14.88
⑤	NB Rte. 28	51' RT • 14.88
⑥	NB Rte. 28	38.75' RT • 56.59
⑦	NB Rte. 28	42.11' RT • 40.91
⑧	NB Rte. 28	45.04' RT • 68.84
⑨	NB Rte. 28	43.52' RT • 70.75
⑩	NB Rte. 28	54.08' RT • 40.19

Key Legend (XX)

1	6" Curb, Std. CG-2 Req'd.	11	Curb Ramp, Std. CG-12 Req'd.	23	Guardrail, Std. GR-MGSI Req'd.
2	4" Curb, Std. CG-3 Req'd.	12	Underdrain Endwall, Std. EW-12 Req'd.	24	Guardrail, Std. GR-MGSIA Req'd.
3	6" Curb and Gutter, Std. CG-6 Req'd.	13	Shoulder Break Over Line	25	Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.
4	4" Curb and Gutter, Std. CG-7 Req'd.	14	Groundwater Underdrain, Std. UD-1 Req'd.	26	Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.
5	Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.	15	Curb-Cut Opening, Drainage Flume	27	Guardrail, Std. GR-10, Type I Req'd.
6	Not Used	16	Pavement Underdrain, Std. UD-4 Req'd.	28	Guardrail, Std. GR-10, Type II Req'd.
7	Conc. Raised Median, Std. MS-1A (6" Curb)	17	Pavement Underdrain, Mod. 6" UD-4 Req'd.	29	Guardrail, Std. GR-10, Type III Req'd.
8	Grass Raised Median, Std. MS-2 (6" Curb)	18	Crossdrain, Std. CD-1 Req'd.	30	Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.
9	Entrance Gutter, Std. CG-9D Req'd.	19	Crossdrain, Std. CD-2 Req'd.	31	Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.
10	Entrance, Std. CG-11 Req'd.	20	Standard Fence, Std. FE-CL Req'd.	32	Guardrail Transition, Std. GR-MGS4 Req'd.
		21	Grass Raised Median, Std. MS-2 (4" Curb)	33	End CG-9D Entrance Type
		22	Chain Link Fence, Std. FE-CL Req'd.	34	Handrail, Std. HR-1 Type III Req'd.

35	Remove Exist. Guardrail		Denotes Full Depth Pavement
36	Remove Exist. Fence		Denotes SUP/Driveway /Private Entrance Pavement
37	Remove Exist. Structure		Denotes Pavement Demolition
38	Remove Or Abandon and Fill Exist. Pipe		Denotes Milling and Overlay / Variable Depth Overlay
39	Remove Exist. Pole		
40	Adjust Exist. Structure		
41	Clean Out Exist. Structure		
42	Full Depth Sawcut		
43	Clean Out Exist. Pipe		
44	10' Gutter Run Out		
45	Median Barrier, Std. MB-8A Req'd.		
46	Pavement Demarcation Line		

[X] Curb Ramp See Sheet 2A(8)-(9)

(CR XX) Curb Return See Sheet 2A(7)

[C] Denotes Construction Limits In Cuts

[F] Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(4)
Typical Sections	2A(1), 2A(6)
E&S Phase 1B(1)/2	2F(8)-2F(9)
E&S Phase 3	2G(8)-2G(9)
Route 28 SB Profile	18A
Route 28 NB Profile	18B
Drainage Descriptions	33
Retaining Wall Profile	41

SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	18

2/11/2021
11:12:36 AM

d108720-18A.dgn
Plotted By: cjennings

Dewberry

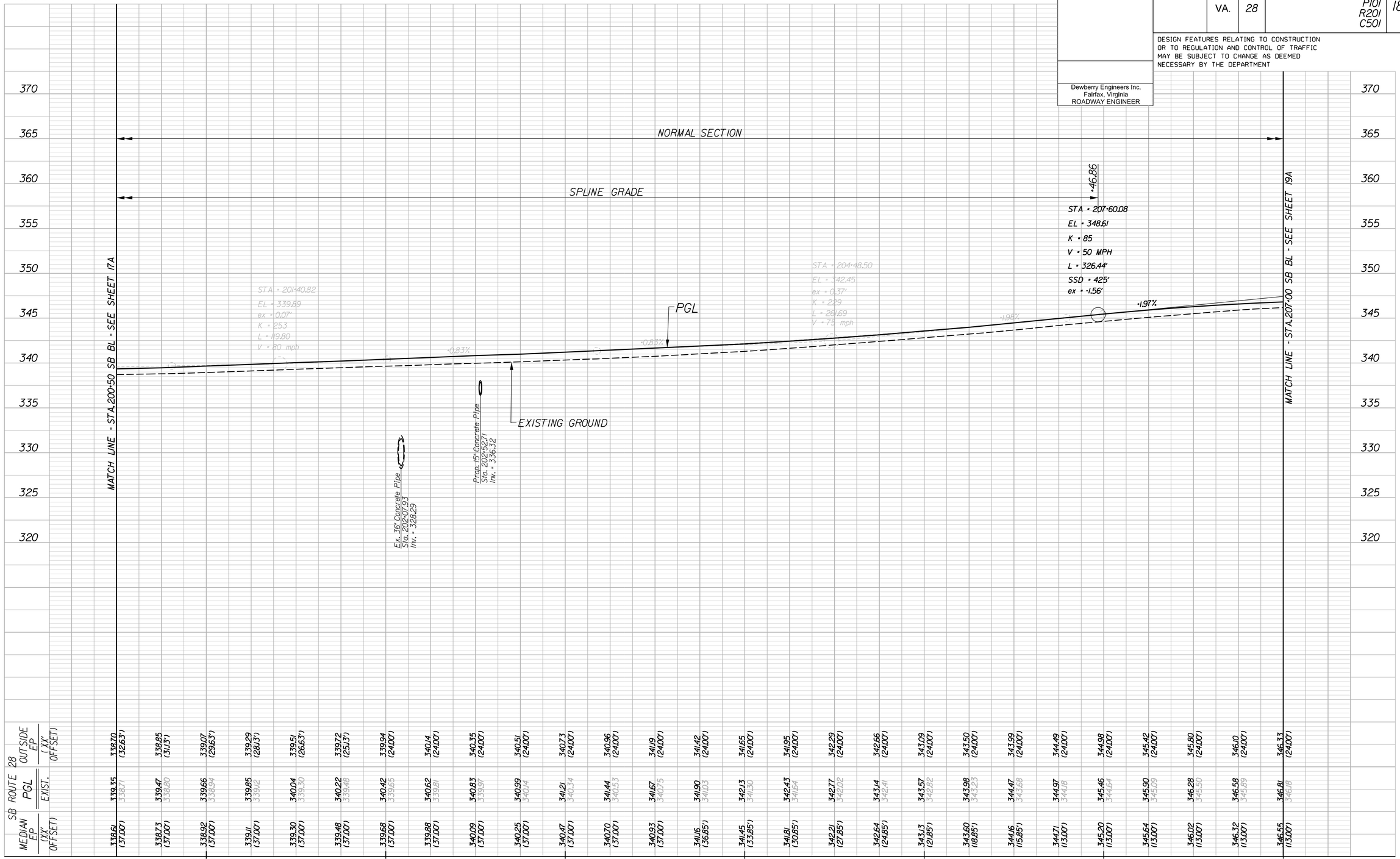
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SB ROUTE 28

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	18A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



SB ROUTE 28	MEDIAN EP (XX' OFFSET)	PGL / EXIST.	OUTSIDE EP (XX' OFFSET)
	338.61 (37.00')	339.35 338.71	338.70 (32.63')
	338.73 (37.00')	339.47 338.80	338.85 (31.31')
	338.92 (37.00')	339.66 338.94	339.07 (29.63')
	339.11 (37.00')	339.85 339.12	339.29 (28.13')
	339.30 (37.00')	340.04 339.30	339.51 (26.63')
	339.48 (37.00')	340.22 339.48	339.72 (25.13')
	339.68 (37.00')	340.42 339.65	339.94 (24.00')
	339.88 (37.00')	340.62 339.81	340.14 (24.00')
	340.09 (37.00')	340.83 339.97	340.35 (24.00')
	340.25 (37.00')	340.99 340.14	340.51 (24.00')
	340.41 (37.00')	341.21 340.34	340.73 (24.00')
	340.70 (37.00')	341.44 340.53	340.96 (24.00')
	340.93 (37.00')	341.67 340.75	341.19 (24.00')
	341.16 (36.85')	341.90 341.03	341.42 (24.00')
	341.45 (33.85')	342.13 341.30	341.65 (24.00')
	341.81 (30.85')	342.43 341.64	341.95 (24.00')
	342.21 (27.85')	342.77 342.02	342.29 (24.00')
	342.64 (24.85')	343.14 342.41	342.66 (24.00')
	343.13 (21.85')	343.57 342.82	343.09 (24.00')
	343.60 (18.85')	343.98 343.23	343.50 (24.00')
	344.16 (15.85')	344.47 343.68	343.99 (24.00')
	344.71 (13.00')	344.97 344.18	344.49 (24.00')
	345.20 (13.00')	345.46 344.64	344.98 (24.00')
	345.64 (13.00')	345.90 345.09	345.42 (24.00')
	346.02 (13.00')	346.28 345.50	345.80 (24.00')
	346.32 (13.00')	346.58 345.89	346.10 (24.00')
	346.55 (13.00')	346.81 346.18	346.33 (24.00')

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT	SHEET NO.
0028-029-269	18A

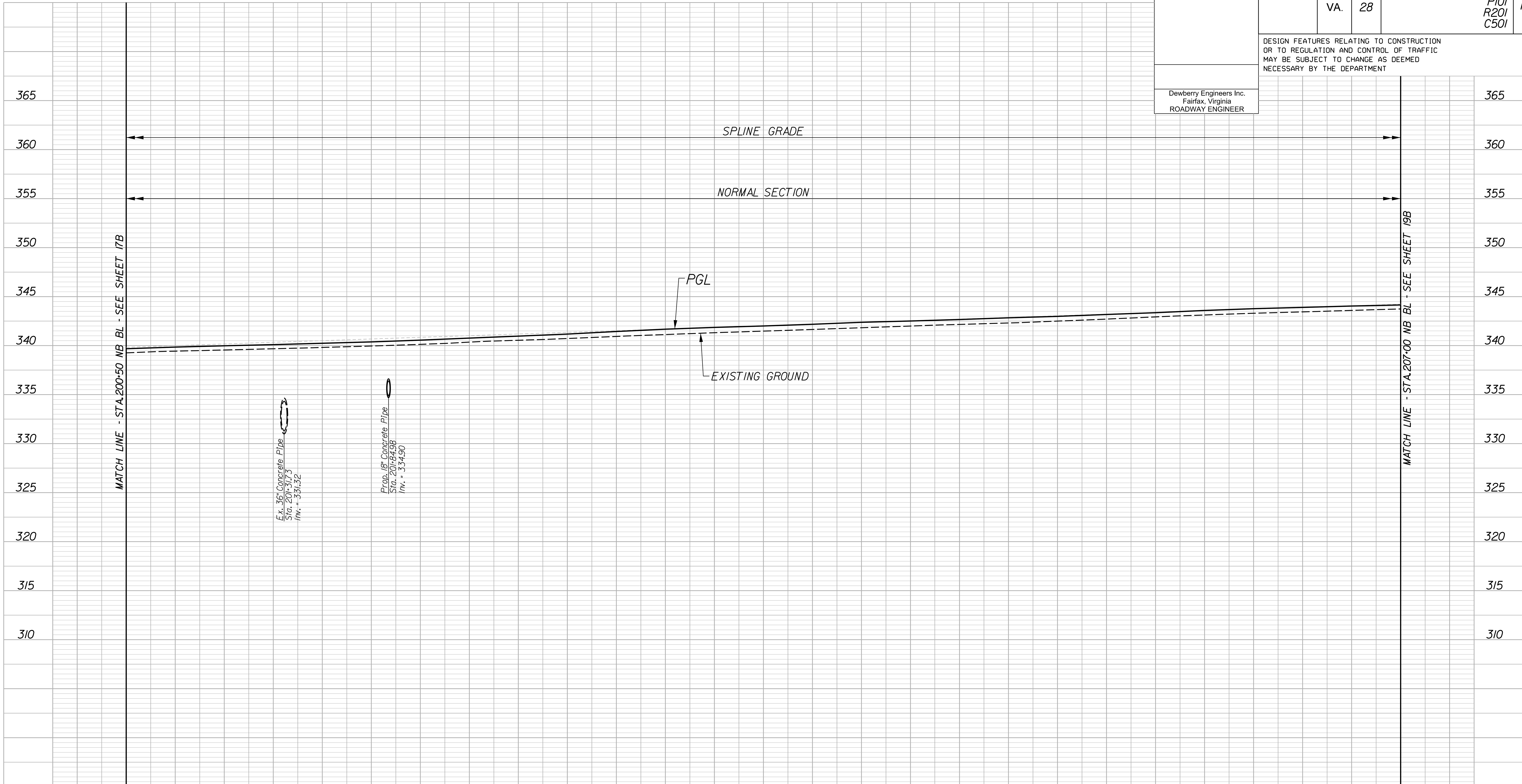
Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
.	VA.	28	0028-029-269 P101 R201 C501	18B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



NB ROUTE 28

Station	MEDIAN EP (XX' OFFSET)	PGL	EXIST.	OUTSIDE EP (XX' OFFSET)
	339.42 (13.00')	339.68	339.26	339.20 (24.00')
	339.59 (13.00')	339.85	339.43	339.37 (24.00')
201+00	339.72 (13.00')	339.98	339.55	339.50 (24.00')
	339.82 (14.03')	340.10	339.68	339.62 (24.00')
	339.90 (17.03')	340.24	339.81	339.76 (24.00')
	339.98 (20.04')	340.38	339.96	339.90 (24.00')
202+00	340.10 (23.04')	340.56	340.13	340.08 (24.00')
	340.25 (26.04')	340.77	340.35	340.27 (25.13')
	340.39 (29.04')	340.97	340.55	340.44 (26.63')
	340.54 (32.05')	341.18	340.72	340.62 (28.13')
203+00	340.74 (35.05')	341.44	340.94	340.85 (29.63')
	340.94 (37.00')	341.68	341.13	341.06 (31.13')
	341.12 (37.00')	341.86	341.32	341.21 (32.63')
	341.26 (37.00')	342.00	341.48	341.32 (34.13')
204+00	341.44 (37.00')	342.18	341.65	341.47 (35.63')
	341.64 (37.00')	342.38	341.82	341.66 (36.00')
	341.77 (37.00')	342.51	342.00	341.79 (36.00')
	341.92 (37.00')	342.66	342.16	341.94 (36.00')
205+00	342.10 (37.00')	342.84	342.31	342.12 (36.00')
	342.24 (37.00')	342.98	342.50	342.26 (36.00')
	342.44 (37.00')	343.18	342.71	342.46 (36.00')
	342.62 (37.00')	343.36	342.93	342.64 (36.00')
206+00	342.85 (37.00')	343.59	343.12	342.87 (36.00')
	343.03 (37.00')	343.77	343.30	343.05 (36.00')
	343.16 (37.00')	343.90	343.44	343.18 (36.00')
	343.30 (37.00')	344.04	343.59	343.32 (36.00')
207+00		344.15	343.74	343.43 (36.00')

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT	SHEET NO.
0028-029-269	18B

2/11/2021
11:14:56 AM

d108720-19.dgn
Plotted By: cJennings

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated: 6-17-2020

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	19

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

Ⓐ End Retaining Wall 02 (RW-3)
Sta. 11+56.02 • Route 28 SB
Sta. 207+80.24
N 6,987,101.9728
E 11,786,293.7718
(See Sheet 41 for Retaining Wall Profile and Details)

Ⓑ Begin Retaining Wall 03
Sta. 10+00.00 • Machen East
Sta. 11+16.69
N 6,987,075.7892
E 11,786,581.8097
(See Sheet 41 for Retaining Wall Profile and Details)

Match Line - Sta. 11+75 - See Sheet 31

033
EPT NINETEEN, INC
D.B. 20847, PG. 1832
TAX MAP 65-2 ((1)) 28

MACHEN RD. WEST
MACHEN RD WEST ℄
N 60° 10' 27" W
EXIST. R/W
PROP. R/W
PROP. GRAD. AGMT. & TEMP. CONST. ESMT
PERM. UTILITY ESMT.
Fill Limit
Retaining Wall 02
PI 11+33.25
R=62'
Type B
POT 11+56.02
Existing Cinema sign to be removed and relocated
Connect to Exist. Underdrain
47.86' RT +45.97
12.85' RT +21.30
36.22' +86.21
49.02' +84.82
R=21'
R=52'
SB Route 28 Sta. 208+53.13+ Machen Rd. West Sta. 10+00.00
46' LT +81.89
36' +54.00
N 29° 51' 48" E
ROUTE 28 SB ℄
R=104'
R=5'
R=109'
EC-3 Ty. I Width = 4'
EC-3 Ty. I Width = 5'
Hinge
NB Route 28 Sta. 207+85.46+ Machen Rd. East Sta. 10+00.00
ROUTE 28 NB ℄
ROUTE 28 NB
R = 1.67'
R = 30'
R = 28.05'
R = 42'
Underground SWM Facility 10
Retaining Wall 03
MACHEN RD. EAST
Match Line - Sta. 11+50 - See Inset A Sheet 31

PARCEL "A"
LAND BAY 1B
SECTION 1
CENTRE RIDGE
D.B. 8891, PG. 103
TAX MAP 65-2 ((13))(1) A
037

EX 19-14
EX 19-15
EX 19-16
EX 19-17
PROP. STORM. DRAIN. ESM'T.
EX. COMMUNITY FEATURES ESMT. D.B. 7825, PG. 416
EX. TRAIL ESMT. D.B. 14868, PG. 2043
EX. NOVEC ESMT. D.B. 8753, PG. 375
EX. SCWA ESMT. D.B. 9059, PG. 483
8" Asphalt Walkway
19-8
19-12
19-5
19-6
19-7
19-9
19-11
19-3
19-18
19-2
19-13
19-1
19-10
F29
F30
F31
F32
F33
F28
EC-3 Ty. I Width = 5'
EC-3 Ty. I Width = 2'
17' LT +43.02
17' LT +17.75
13' LT +21.75
13' LT +06.47
Match Line - Sta. 207+00 - See Sheet 18
Match Line - Sta. 213+50 - See Sheet 20

036
CENTRE MED OWNER LLC
D.B. 26020, PG. 227
TAX MAP 65-2 ((1)) 14A

038
BRANCH BAKING AND TRUST COMPANY OF VIRGNIA
D.B. 14782, PG. 186
TAX MAP 65-2 ((1)) 14E

PARCEL C
REDWOOD SQUARE CENTER
D.B. 14250, PG. 2125
TAX MAP 65-2 ((1)) 14C

MME4 LLC
D.B. 25519, PG. 2191
TAX MAP 65-2 ((1)) 14C

Underground SWM Facility access - Roads to be built with the Shared Use Path pavement section.

SWM Access Road Entrance			
	Alignment	Offset/ Station	
Ⓙ	NB Rte. 28	49' RT	+32.14
Ⓚ	NB Rte. 28	38.5' RT	+59.92
Ⓛ	NB Rte. 28	36.42' RT	+62.11
Ⓜ	NB Rte. 28	34.99' RT	+63.52

Machen Rd. Intersection Medians			
	Alignment	Elev. (Ft.)	Offset/ Station
①	SB Rte. 28	346.71	14.24' RT +66.55
②	SB Rte. 28	346.67	14.85' RT +67.03
③	NB Rte. 28	345.21	37.84' LT +01.10
④	NB Rte. 28	345.17	37.21' LT +00.54
⑤	SB Rte. 28	345.31	39.03' RT +10.26
⑥	SB Rte. 28	344.43	25' RT +62.43
⑦	NB Rte. 28	345.30	13' LT +07.24
⑧	NB Rte. 28	339.27	34.63' LT +42.06
⑨	Machen Rd.	344.05	12.88' RT +63.82
⑩	Machen Rd.	343.58	17.02' RT +64.53

SWM Access Road Entrance			
	Alignment	Offset/ Station	
Ⓐ	NB Rte. 28	34.99' RT	+25.84
Ⓑ	NB Rte. 28	36.42' RT	+27.24
Ⓒ	NB Rte. 28	38.5' RT	+29.44
Ⓓ	NB Rte. 28	49' RT	+57.22
Ⓔ	NB Rte. 28	29.5' RT	+37.38
Ⓕ	NB Rte. 28	37' RT	+57.22
Ⓖ	NB Rte. 28	29.5' RT	+51.98
Ⓗ	NB Rte. 28	37' RT	+32.14

Key Legend (XX)

1 6" Curb, Std. CG-2 Req'd.
2 4" Curb, Std. CG-3 Req'd.
3 6" Curb and Gutter, Std. CG-6 Req'd.
4 4" Curb and Gutter, Std. CG-7 Req'd.
5 Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.
6 Not Used
7 Conc. Raised Median, Std. MS-1A (6" Curb)
8 Grass Raised Median, Std. MS-2 (6" Curb)
9 Entrance Gutter, Std. CG-9D Req'd.
10 Entrance, Std. CG-11 Req'd.
11 Curb Ramp, Std. CG-12 Req'd.
12 Underdrain Endwall, Std. EW-12 Req'd.
13 Shoulder Break Over Line
14 Groundwater Underdrain, Std. UD-1 Req'd.
15 Curb-Cut Opening, Drainage Flume
16 Pavement Underdrain, Std. UD-4 Req'd.
17 Pavement Underdrain, Mod. 6" UD-4 Req'd.
18 Crossdrain, Std. CD-1 Req'd.
19 Crossdrain, Std. CD-2 Req'd.
20 Standard Fence, Std. FE-CL Req'd.
21 Grass Raised Median, Std. MS-2 (4" Curb)
22 Chain Link Fence, Std. FE-CL Req'd.
23 Guardrail, Std. GR-MGS1 Req'd.
24 Guardrail, Std. GR-MGS1A Req'd.
25 Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.
26 Guardrail Trailing End Acharage, Std. GR-MGS3 Req'd.
27 Guardrail, Std. GR-10, Type I Req'd.
28 Guardrail, Std. GR-10, Type II Req'd.
29 Guardrail, Std. GR-10, Type III Req'd.
30 Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.
31 Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.
32 Guardrail Transition, Std. GR-MGS4 Req'd.
33 End CG-9D Entrance Type
34 Handrail, Std. HR-1 Type III Req'd.
35 Remove Exist. Guardrail
36 Remove Exist. Fence
37 Remove Exist. Structure
38 Remove Or Abandon and Fill Exist. Pipe
39 Remove Exist. Pole
40 Adjust Exist. Structure
41 Clean Out Exist. Structure
42 Full Depth Sawcut
43 Clean Out Exist. Pipe
44 10' Gutter Run Out
45 Median Barrier, Std. MB-8A Req'd.
46 Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

(X) Curb Ramp See Sheet 2A(8)-(9)
(CR XX) Curb Return See Sheet 2A(7)
C Denotes Construction Limits In Cuts
F Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(4)
Typical Sections	2A(2), 2A(5)-2A(6)
E&S Phase 1B(1)/2	2F(9)
E&S Phase 3	2G(9)
Route 28 SB Profile	19A
Route 28 NB Profile	19B
Machen Rd. East Profile	19C
Machen Rd. West Profile	31A
Drainage Descriptions	33
Retaining Wall Profile	41

SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	19

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SB ROUTE 28

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
.	VA.	28	0028-029-269 P101 R201 C501	19A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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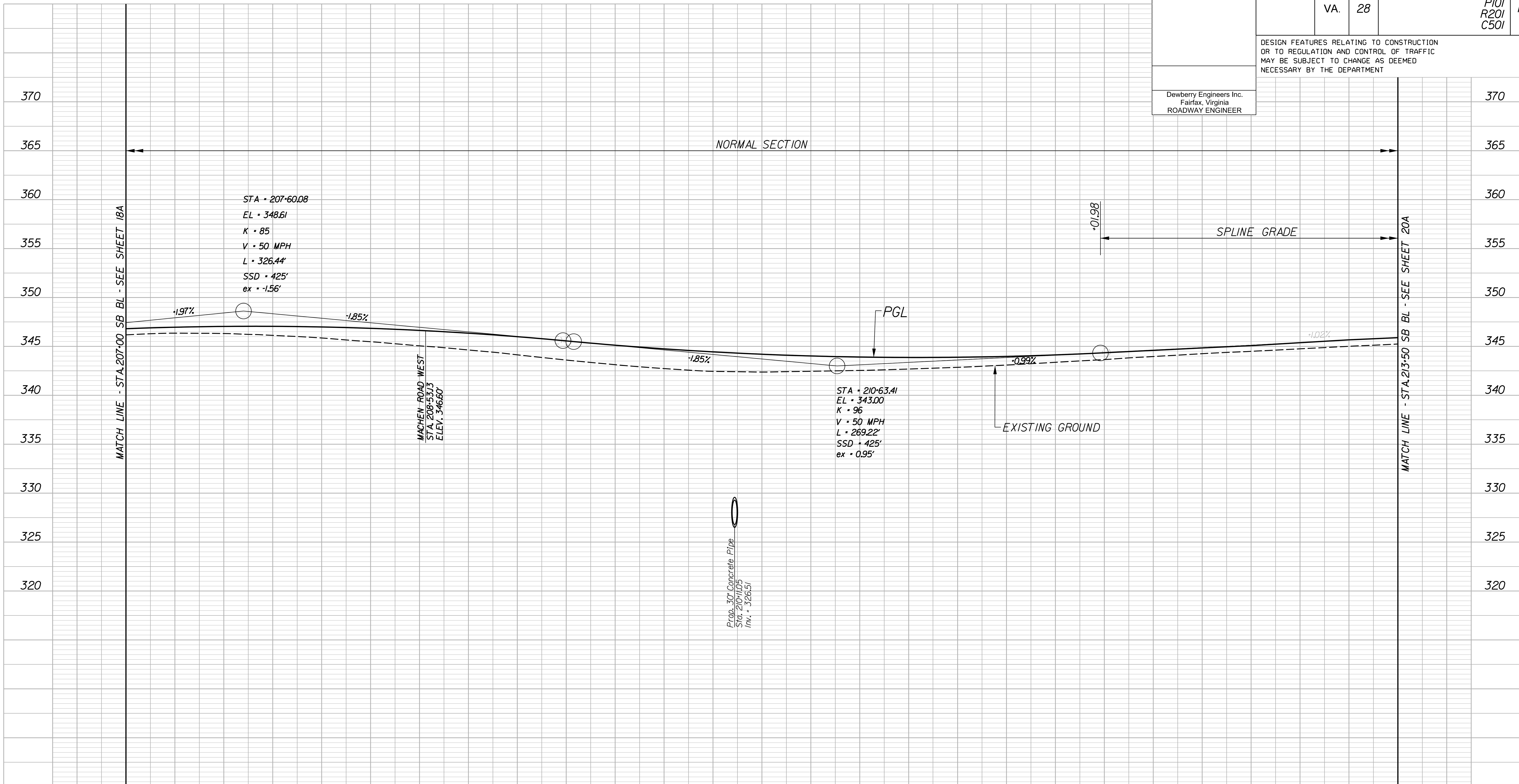
Fairfax, Virginia
ROADWAY ENGINEER



SB ROUTE 28

Station	OUTSIDE EP (XX' OFFSET)	PGL	EXIST.	MEDIAN EP (XX' OFFSET)
207+00	346.33 (24.00')	346.81	346.18	346.55 (13.00')
	346.48 (24.00')	346.96	346.35	346.70 (13.00')
	346.56 (24.00')	347.04	346.32	346.78 (13.00')
		347.05	346.13	346.74 (15.36')
208+00		346.98	345.86	
		346.85	345.48	
		346.63	345.06	
		346.35	344.63	
209+00		345.99	344.14	
		345.56	343.61	
		345.12	343.13	
	344.03 (36.00')	344.75	342.74	344.25 (25.00')
210+00	343.72 (36.00')	344.44	342.45	343.94 (25.00')
	343.48 (36.00')	344.20	342.38	343.70 (25.00')
	343.30 (36.00')	344.02	342.46	343.52 (25.00')
	343.19 (36.00')	343.91	342.54	343.41 (25.00')
211+00	343.15 (36.00')	343.87	342.69	343.37 (25.00')
	343.17 (36.00')	343.89	342.86	343.39 (25.00')
	343.26 (36.00')	343.98	343.09	343.48 (25.00')
	343.41 (36.00')	344.13	343.37	343.63 (25.00')
212+00	343.63 (36.00')	344.35	343.65	343.85 (25.00')
	343.87 (36.00')	344.59	343.96	344.10 (24.47')
	344.13 (35.45')	344.84	344.25	344.38 (22.97')
	344.40 (33.95')	345.08	344.49	344.65 (21.47')
213+00	344.73 (32.45')	345.38	344.75	344.98 (19.96')
	345.05 (30.95')	345.67	345.01	345.30 (18.46')
	345.30 (29.45')	345.89	345.25	345.55 (16.96')

HORIZ. 0 25' 50'
VERT. 0 5' 10'

2/11/2021
11:17:16 AM

d108720-19B.dgn
Plotted By: c jennings

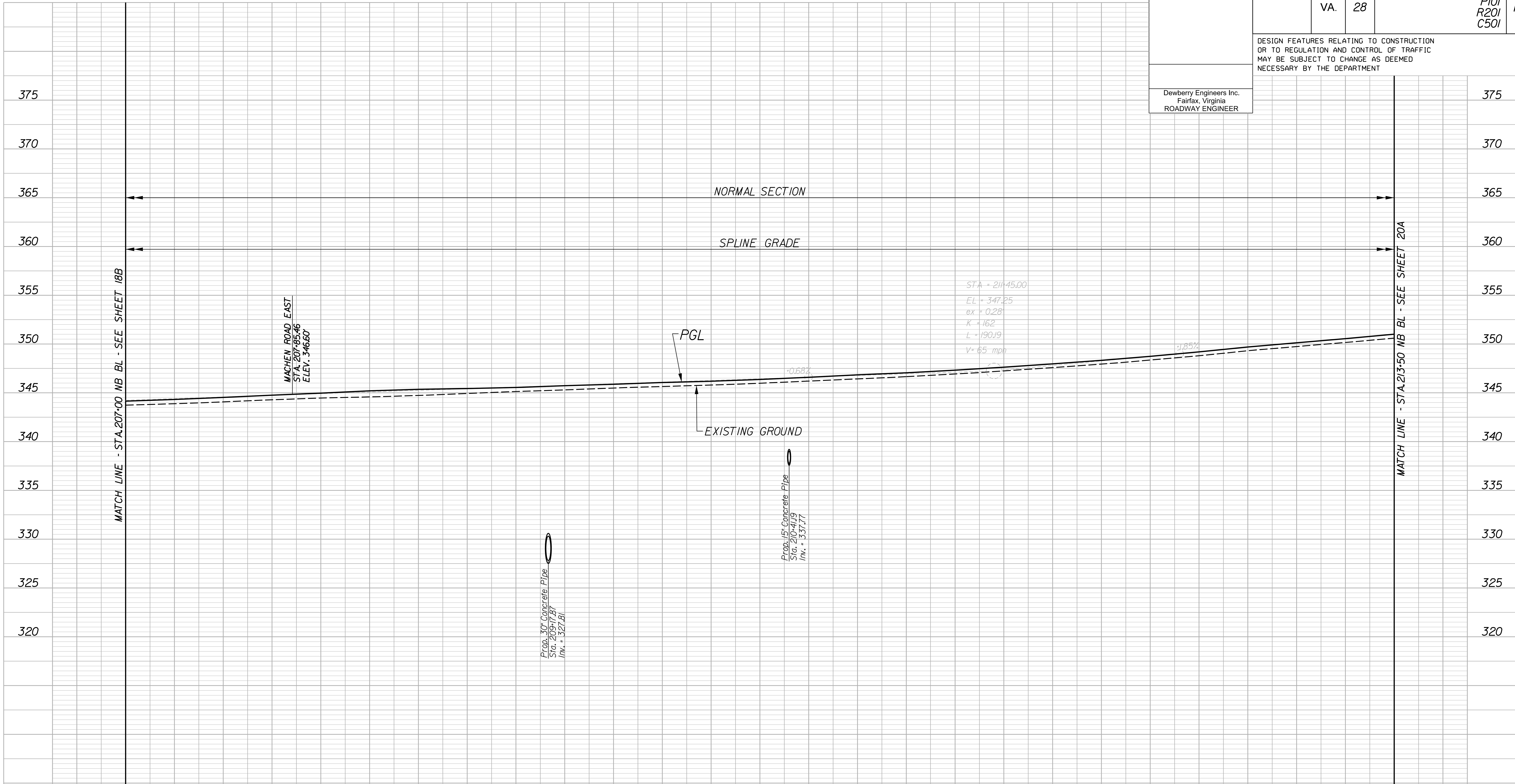
Dewberry®

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
.	VA.	28	0028-029-269 P101 R201 C501	19B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



NB ROUTE 28

Station	MEDIAN EP (XX' OFFSET)	PGL	EXIST.	OUTSIDE EP (XX' OFFSET)
207+00		344.15	343.74	343.43 (36.00')
		344.32	343.89	343.60 (36.00')
		344.53	344.07	
		344.76	344.29	
208+00		344.97	344.47	
		345.20	344.58	
		345.36	344.73	
		345.44	344.93	
209+00		345.55	345.13	345.07 (24.00')
	345.47 (13.00')	345.73	345.30	345.25 (24.00')
	345.62 (13.00')	345.88	345.49	345.40 (24.00')
	345.80 (13.00')	346.06	345.65	345.58 (24.00')
210+00	345.93 (13.00')	346.19	345.80	345.71 (24.00')
	346.11 (13.00')	346.37	345.98	345.89 (24.00')
	346.33 (13.00')	346.59	346.20	346.11 (24.00')
	346.58 (13.00')	346.84	346.43	346.36 (24.00')
211+00	346.79 (13.00')	347.05	346.66	346.57 (24.00')
	347.06 (13.00')	347.32	346.93	346.84 (24.00')
	347.37 (13.00')	347.63	347.25	347.15 (24.00')
	347.71 (13.00')	347.97	347.59	347.49 (24.00')
212+00	348.07 (13.00')	348.33	347.95	347.85 (24.00')
	348.48 (13.00')	348.74	348.36	348.26 (24.00')
	348.94 (13.00')	349.20	348.80	348.72 (24.00')
	349.44 (13.00')	349.70	349.31	349.14 (27.87')
213+00	349.87 (13.00')	350.13	349.74	349.57 (28.00')
	350.29 (13.00')	350.55	350.16	349.99 (28.00')
	350.75 (13.00')	351.01	350.61	350.45 (28.00')

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT	SHEET NO.
0028-029-269	19B

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

MACHEN ROAD EAST

BEGIN CONSTRUCTION
MACHEN ROAD EAST
STA. 10+00.00

END CONSTRUCTION
MACHEN ROAD EAST
STA. 12+43.11

LT SIDE - FULL SE AT 0.0068 FT/FT LT

LT SIDE - 56' TRANSITION FROM 0.0068 FT/FT LT TO 0.020 FT/FT LT
+24.00
+80.00

LT SIDE - FULL SE AT 0.020 FT/FT LT
+43.11

SPLINE GRADE
+80.00
+43.11

PGL
STA = 10+80.00
EL = 343.34
344.85
345.26
-2.00%
-1.62%
-1.13%
STA = 10+55.00
EL = 343.75
EXISTING GROUND

RT SIDE - FULL SE AT 0.0068 FT/FT LT

RT SIDE - 56' TRANSITION FROM 0.0068 FT/FT LT TO EXIST 0.0202 FT/FT LT
+24.00
+80.00

RT SIDE - MATCH EXISTING
+43.11

Ex. 18" Concrete Pipe
Sta. 11+49.50
Inv. = 340.11

Ex. 21" Concrete Pipe
Sta. 12+41.35
Inv. = 340.07

UPPERRIDGE DR.

BEGIN CONSTRUCTION
UPPERRIDGE DRIVE
STA. 10+00.00

END CONSTRUCTION
UPPERRIDGE DRIVE
STA. 12+06.12

LT SIDE - FULL SE AT 0.0202 FT/FT LT

LT SIDE - 52' TRANSITION FROM 0.0202 FT/FT LT TO EXIST 0.0188 FT/FT RT
+24.00
+76.20

SPLINE GRADE
+76.20
+06.12

LT SIDE - MATCH EXISTING
+06.12

351.69
348.13
338.38
PGL RT
-5.90%
-5.01%
-4.20%
-7.00%
-4.98%
STA = 10+50.00
EL = 348.45
K = 26
V = 25 mph
L = 51.54'
PGL LT
EXISTING GROUND

RT SIDE - FULL SE AT 0.0202 FT/FT LT

RT SIDE - 46' TRANSITION FROM 0.0202 FT/FT LT TO EXIST 0.0318 FT/FT LT
+24.00
+70.00

RT SIDE - MATCH EXISTING
+06.12

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	19C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER

	10+00	11+00	12+00	13+00
PGL EXIST.	344.85 / 344.36	344.35 / 343.91	343.85 / 343.41	343.42 / 343.35
LT/EP (XX' OFFSET)				344.14 (38.05')
RT/EP (XX' OFFSET)				343.28 (1.47')

	10+00	11+00	12+00	13+00
PGL RT EXIST.	351.69 / 351.60	350.22 / 349.84	348.97 / 348.58	347.21 / 347.20
LT/SAWCUT (XX' OFFSET)				345.12 (22.32')
LT/EP (XX' OFFSET)				344.84 (30.90')

	11+00	12+00	13+00
PGL RT EXIST.	345.71 / 345.71	343.97 / 343.97	342.19 / 342.19
LT/SAWCUT (XX' OFFSET)	343.41 (22.32')	341.69 (22.29')	340.06 (22.25')
LT/EP (XX' OFFSET)	343.14 (30.73')	341.47 (30.57')	340.00 (25.52')

	12+00	13+00
PGL RT EXIST.	338.78 / 338.78	
LT/SAWCUT (XX' OFFSET)	338.24 (22.42')	
LT/EP (XX' OFFSET)	338.22 (23.43')	

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT 0028-029-269

SHEET NO. 19C

2/11/2021
11:19:36 AM

d108720-20.dgn
Plotted By: cJennings

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated: 6-17-2020

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	20

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER

Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

PARCEL "A" LAND BAY 1B SECTION 1 CENTRE RIDGE D.B. 8891, PG. 103 TAX MAP 65-2 ((13))(1) A

PARCEL "A" CENTRE VILLAGE D.B. 9297, PG. 271 TAX MAP 65-2 ((13))(5) A

PARCEL "A" CENTRE VILLAGE D.B. 11208, PG. 496 TAX MAP 65-2 ((16)) A

CENTREVILLE HOTEL, L.L.C. D.B. 10566, PG. 635 TAX MAP 65-2 ((1)) 6

NORTH FAIRFAX DRIVE INVESTMENTS, L.L.C. D.B. 11378, PG. 142 TAX MAP 65-2 ((1)) 5

NEXT GENERATION-REDWOOD SQUARE LLC, D.B. 14250, PG. 2125 TAX MAP 65-2 ((1)) 14D

CENTREVILLE HOTEL, L.L.C. D.B. 10566, PG. 635 TAX MAP 65-2 ((1)) 8

ROUTE 28 SB

ROUTE 28 NB

N 29° 51' 48" E

N 35° 06' 01" E

N 20° 50' 24" E

PC216+63.67

PC218+34.15

PI 12+17.09

PC12+65.44

PT13+01.52

POT 10+00.00

PI 10+15.17

PT10+65.38

Match Line - Sta. 213+50 - See Sheet 19

Match Line - Sta. 220+50 - See Sheet 21

Repair or Replace Pipe

PROP. STORM. DRAIN. ESM'T.

PROP. GRAD. AGMT. & TEMP. CONST. ESMT.

EXIST. R/W

PROP. R/W

8' Asphalt Walkway

Hinge

EC-3 Ty. I Width = 4'

EC-3 Ty. I Width = 6'

EC-3 Ty. I Width = 5'

EC-3 Ty. I Width = 2'

EC-3 Ty. I Width = 1'

EC-3 Ty. I Width = 10'

SUP 02

20-1 20-2 20-2A 20-3 20-4 20-5 20-6 20-7 20-8 20-9 20-10

F34 F35 F36

053 037 054 040

EX. FCWA ESMT. D.B. 8659, PG. 483

EX. COMMUNITY FEATURES ESMT. D.B. 7825, PG. 416

EX. PUBLIC ACCESS ESMT. D.B. 9297, PG. 271

EX. FCWA ESMT. D.B. 9131, PG. 817

EX. FCWA ESMT. D.B. 10667, PG. 1307

EX. STORM SEWER ESMT. D.B. 11208, PG. 496

EX. BELL ATLANTIC ESMT. (APPROX. LOCATION) D.B. 4446, PG. 1

EX. TRAIL ESMT. D.B. 11208, PG. 496

EX. BELL ATLANTIC ESMT. D.B. 10704, PG. 1654 D.B. 10704, PG. 1658

EX. UTILITY ESM'T FOR NOVEC & C&P D.B. 6350, PG. 1240

EX. NOVEC UTILITY ESMT. D.B. 6436, PG. 887

EX. SANITARY SEWER ESMT. (PROP. COX) D.B. 10566, PG. 635

Key Legend (XX)

1 6" Curb, Std. CG-2 Req'd.
2 4" Curb, Std. CG-3 Req'd.
3 6" Curb and Gutter, Std. CG-6 Req'd.
4 4" Curb and Gutter, Std. CG-7 Req'd.
5 Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.
6 Not Used
7 Conc. Raised Median, Std. MS-1A (6" Curb)
8 Grass Raised Median, Std. MS-2 (6" Curb)
9 Entrance Gutter, Std. CG-9D Req'd.
10 Entrance, Std. CG-11 Req'd.
11 Curb Ramp, Std. CG-12 Req'd.
12 Underdrain Endwall, Std. EW-12 Req'd.
13 Shoulder Break Over Line
14 Groundwater Underdrain, Std. UD-1 Req'd.
15 Curb-Cut Opening, Drainage Flume
16 Pavement Underdrain, Std. UD-4 Req'd.
17 Pavement Underdrain, Mod. 6" UD-4 Req'd.
18 Crossdrain, Std. CD-1 Req'd.
19 Crossdrain, Std. CD-2 Req'd.
20 Standard Fence, Std. FE-CL Req'd.
21 Grass Raised Median, Std. MS-2 (4" Curb)
22 Chain Link Fence, Std. FE-CL Req'd.
23 Guardrail, Std. GR-MGS1 Req'd.
24 Guardrail, Std. GR-MGS1A Req'd.
25 Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.
26 Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.
27 Guardrail, Std. GR-10, Type I Req'd.
28 Guardrail, Std. GR-10, Type II Req'd.
29 Guardrail, Std. GR-10, Type III Req'd.
30 Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.
31 Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.
32 Guardrail Transition, Std. GR-MGS4 Req'd.
33 End CG-9D Entrance Type
34 Handrail, Std. HR-1 Type III Req'd.
35 Remove Exist. Guardrail
36 Remove Exist. Fence
37 Remove Exist. Structure
38 Remove Or Abandon and Fill Exist. Pipe
39 Remove Exist. Pole
40 Ad Just Exist. Structure
41 Clean Out Exist. Structure
42 Full Depth Sawcut
43 Clean Out Exist. Pipe
44 10' Gutter Run Out
45 Median Barrier, Std. MB-8A Req'd.
46 Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

(X) Curb Ramp See Sheet 2A(8)-(9)
(CR XX) Curb Return See Sheet 2A(7)
C ---- Denotes Construction Limits In Cuts
F ---- Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(4)-1G(5)
Typical Sections	2A(2)
E&S Phase 1B(1)/2	2F(9)-2F(10)
E&S Phase 3	2G(9)-2G(10)
Route 28 Profile	20A
SUP-2 Profile	32(4)
Drainage Descriptions	33

Curve NB28-3
PI = 221+06.22
DELTA = 28° 59' 14.52" (LT)
D = 3° 20' 48"
T = 442.55'
L = 866.14'
R = 1,712.00'
PC = 216+63.67
PT = 225+29.81

Curve SB28-3
PI = 222+21.81
DELTA = 29° 12' 18.34" (LT)
D = 3° 51' 02"
T = 387.67'
L = 758.47'
R = 1,488.00'
PC = 218+34.15
PT = 225+92.62

SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	20

Dewberry

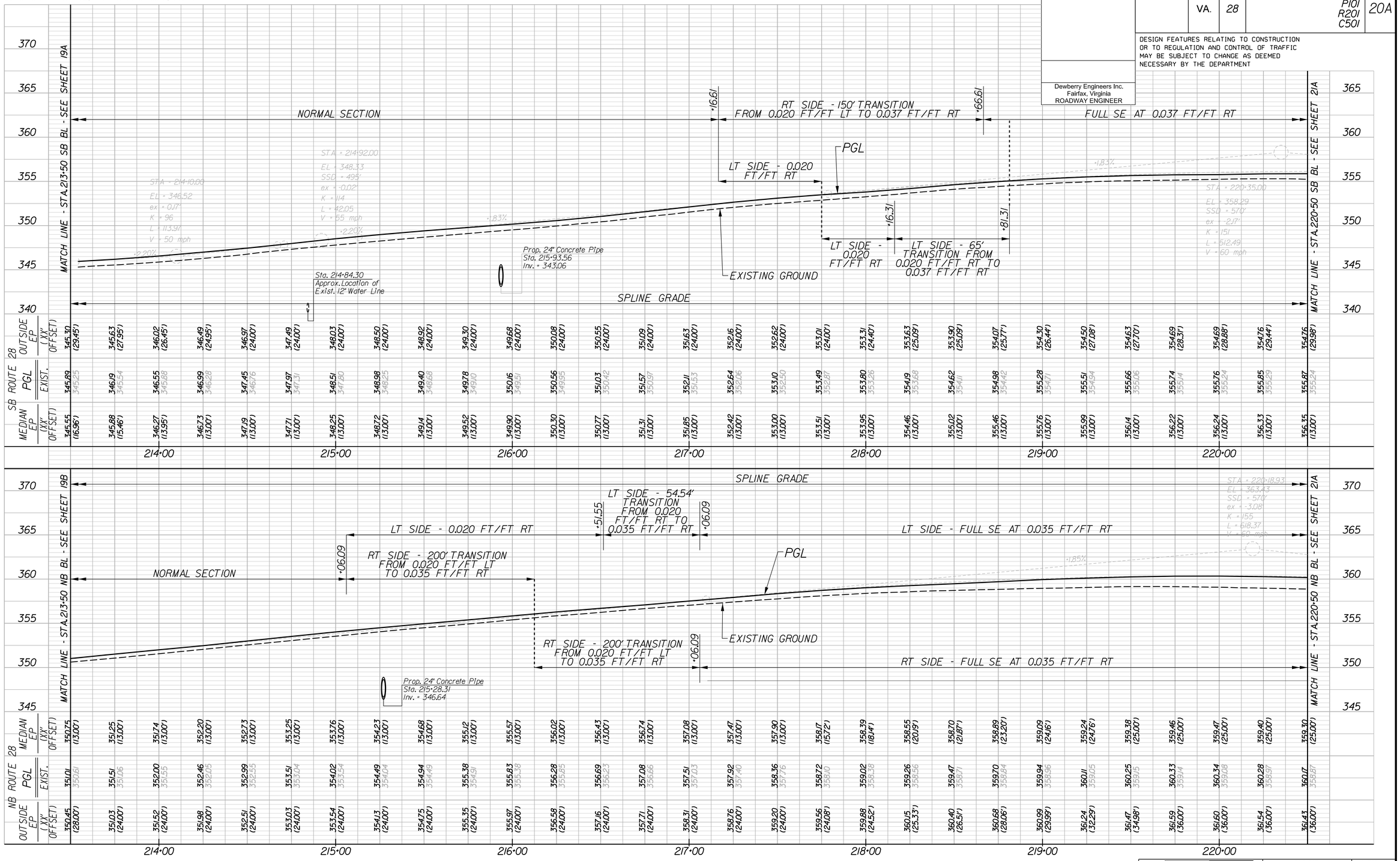
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SB ROUTE 28

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	20A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



NB ROUTE 28

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT	SHEET NO.
0028-029-269	20A

2/11/2021
11:22:11 AM

d108720-21.dgn
Plotted By: c Jennings

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated: 6-17-2020

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	21

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

Match Line - Sta. 11+50 - See Inset A Sheet 22

FAIRFAX COUNTY REDEVELOPMENT AND HOUSING AUTHORITY
039
D.B. 11264, PG. 97
TAX MAP 54-4 ((1)) 73C & 73L

MCDONALD'S CORPORATION
PARCEL "C"
MP CENTREVILLE VENTURE
D.B. 9171, PG. 1538
TAX MAP 54-4 ((5)) 1A

Match Line - Sta. 220+50 - See Sheet 20

Match Line - Sta. 227+50 - See Sheet 22

ROUTE 28 SB

ROUTE 28 NB

UPPERRIDGE DR

PC 10+00.00

PT 10+88.20

PT 225+92.62

PT 225+29.81

POT 10+00.00

POT 10+96.62

PC 10+8.77

SB Route 28 Sta. 224+13.84+
Upperridge Dr. Sta. 10+00.00

NB Route 28 Sta. 223+74.06+
Old Centreville Rd. Sta. 10+00.00

End Project
0028-029-269, R201
Sta. 227+21.98

N 0° 52' 33" E

N 80° 02' 14" E

N 80° 22' 30" W

S 22° 35' 36" E

ENTRANCE P

OLD CENTREVILLE RD

NORTH FAIRFAX DRIVE INVESTMENTS, L.L.C.
040
D.B. 11378, PG. 142
TAX MAP 65-2 ((1)) 5

041
SH PARK ASSOCIATES
D.B. 24313, PG. 2176
TAX MAP 54-4 ((5)) 2A1

DEERFIELD RIDGE HOMEOWNERS ASSOCIATION
D.B. 11427, PG. 760
TAX MAP 65-2 ((17)) A

EX 21-7 · EX 21-6 · 21-1 · 21-2 · 21-5 · 21-14 · 21-4 · 21-13 · 21-13A · EX 21-8 · 21-9 · 21-11 · 21-12

PROP. R/W · EXIST. R/W · PROP. GRAD. AGMT. & TEMP. CONST. ESMT · PROP. STORM. DRAIN. ESMT. · Hinge · Type B · CR 21 · CR 22 · CR 23 · CR 24 · CR 27 · CR 28 · EC-3 Ty. I Width = 2' · EC-3 Ty. I Width = 4' · R=76' · R=6' · R=151' · R=52' · R=2' · R=297.93' · R=42' · R=2.08' · R=27.29' · R=34.54' · 15' · 24' · 36' · 42' · 48' · 10' · 8' · 5' · 12' · 15' · 34.37' LT · 23.34 · 30.74' · 47.88 · 30.75' · 21.69 · 38.46' LT · 91.35 · 42.46' LT · 91.37 · 31' LT · 85.85 · 43.06' RT · 87.05 · 41.48' · 94.55 · 27.38' · 84.73 · 16.6' · 25.75 · 24' · 50.95 · 36' · 46.01 · 42.02' · 20.73 · 36' · 56.16 · 36' · 50.49 · 42' · 35.37 · 12' 12" · 20.55 · 17' · 86.58 · 23.55' · 28.39 · 30.66' RT · 68.36 · 27.06' · 83.11 · 20.71' RT · 43.81 · 15.31' RT · 83.52 · 15' LT · 78.51 · 15' LT · 55.54 · 23.43' · 46.49 · 52.69' · 38.23 · 48.18' LT · 17.69 · 40.96' LT · 62.43 · 2.07' RT · 98.33 · 7.18' RT · 98.30 · 29.26' RT · 69.17 · 30.48' RT · 94.77 · 28.39' LT · 64.24

Upperridge/Centreville Intersection Medians			
	Alignment	Elev. (Ft.)	Offset/ Station
①	SB Rte. 28	354.63	13' RT · 04.56
②	SB Rte. 28	355.20	17.54' RT · 29.42
③	NB Rte. 28	354.79	28.36' LT · 84.53
④	NB Rte. 28	356.91	25' LT · 50.95
⑤	SB Rte. 28	351.61	25.93' RT · 03.24
⑥	SB Rte. 28	350.71	25.06' RT · 49.71
⑦	NB Rte. 28	352.02	13.59' LT · 23.00
⑧	NB Rte. 28	352.31	21.39' LT · 64.01
⑨	Upperridge	347.28	13.72' RT · 76.44
⑩	Upperridge	347.23	17.65' RT · 76.46
⑪	Old Centreville	357.39	3.64' RT · 65.72
⑫	Old Centreville	357.27	0.51' LT · 65.84

Curve NB28-3
PI = 221+06.22
DELTA = 28° 59' 14.52" (LT)
D = 3° 20' 48"
T = 442.55'
L = 866.14'
R = 1,712.00'
PC = 216+63.67
PT = 225+29.81

Curve SB28-3
PI = 222+21.81
DELTA = 29° 12' 18.34" (LT)
D = 3° 51' 02"
T = 387.67'
L = 758.47'
R = 1,488.00'
PC = 218+34.15
PT = 225+92.62

Curve OCR-1
PI = 11+69.81
DELTA = 66° 36' 39.47" (LT)
D = 43° 49' 05"
T = 88.04'
L = 152.02'
R = 134.00'
PC = 10+81.77
PRC = 12+33.79

Curve OCR-2
PI = 13+99.99
DELTA = 16° 30' 32.11" (RT)
D = 5° 00' 10"
T = 166.20'
L = 330.00'
R = 1,145.66'
PRC = 12+33.79
PT = 15+63.79

Curve URD-1
PI = 10+44.17
DELTA = 7° 46' 28.88" (RT)
D = 8° 48' 53"
T = 44.17'
L = 88.20'
R = 650.00'
PC = 10+00.00
PT = 10+88.20

Key Legend XX

1 6" Curb, Std. CG-2 Req'd.
2 4" Curb, Std. CG-3 Req'd.
3 6" Curb and Gutter, Std. CG-6 Req'd.
4 4" Curb and Gutter, Std. CG-7 Req'd.
5 Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.
6 Not Used
7 Conc. Raised Median, Std. MS-1A (6" Curb)
8 Grass Raised Median, Std. MS-2 (6" Curb)
9 Entrance Gutter, Std. CG-9D Req'd.
10 Entrance, Std. CG-11 Req'd.
11 Curb Ramp, Std. CG-12 Req'd.
12 Underdrain Endwall, Std. EW-12 Req'd.
13 Shoulder Break Over Line
14 Groundwater Underdrain, Std. UD-1 Req'd.
15 Curb-Cut Opening, Drainage Flume
16 Pavement Underdrain, Std. UD-4 Req'd.
17 Pavement Underdrain, Mod. 6" UD-4 Req'd.
18 Crossdrain, Std. CD-1 Req'd.
19 Crossdrain, Std. CD-2 Req'd.
20 Standard Fence, Std. FE-CL Req'd.
21 Grass Raised Median, Std. MS-2 (4" Curb)
22 Chain Link Fence, Std. FE-CL Req'd.
23 Guardrail, Std. GR-MGS1 Req'd.
24 Guardrail, Std. GR-MGS1A Req'd.
25 Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.
26 Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.
27 Guardrail, Std. GR-10, Type I Req'd.
28 Guardrail, Std. GR-10, Type II Req'd.
29 Guardrail, Std. GR-10, Type III Req'd.
30 Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.
31 Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.
32 Guardrail Transition, Std. GR-MGS4 Req'd.
33 End CG-9D Entrance Type
34 Handrail, Std. HR-1 Type III Req'd.
35 Remove Exist. Guardrail
36 Remove Exist. Fence
37 Remove Exist. Structure
38 Remove Or Abandon and Fill Exist. Pipe
39 Remove Exist. Pole
40 Adjust Exist. Structure
41 Clean Out Exist. Structure
42 Full Depth Sawcut
43 Clean Out Exist. Pipe
44 10' Gutter Run Out
45 Median Barrier, Std. MB-8A Req'd.
46 Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

X — Curb Ramp — See Sheet 2A(8)-(9)
CR XX — Curb Return — See Sheet 2A(7)
C — Denotes Construction Limits In Cuts
F — Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(5)
Typical Sections	2A(2), 2A(6)
E&S Phase 1B(1)/2	2F(10)
E&S Phase 3	2G(10)
Upperridge Dr. Profile	19C
Route 28 Profile	21A
Old Centreville Rd. Profile	21B
Drainage Descriptions	33

END CONSTRUCTION
OLD CENTREVILLE RD.
STA. 14+50.35

SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	21

2/11/2021
11:23:32 AM

d108720-21A.dgn
Plotted By: cjennings

Dewberry

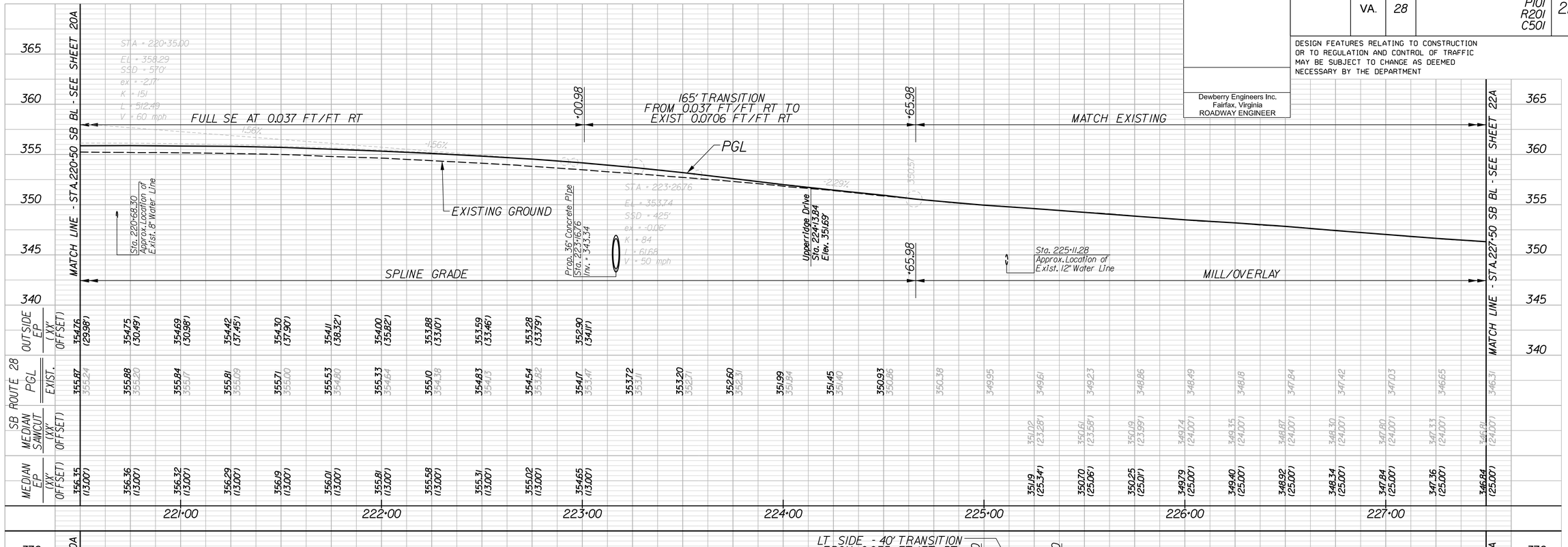
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SB ROUTE 28

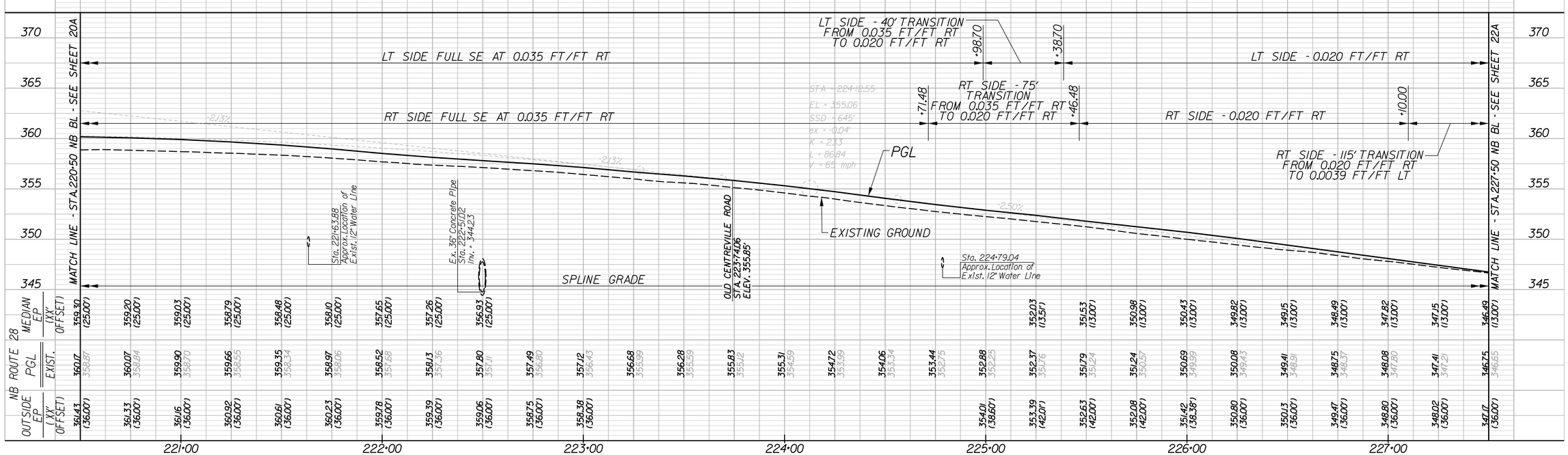
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	21A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



SB ROUTE 28	221+00	222+00	223+00	224+00	225+00	226+00	227+00
OUTSIDE EP (XX' OFFSET)	354.76 (29.98')	354.75 (30.49')	354.69 (30.98')	354.42 (37.45')	354.30 (37.90')	354.11 (38.32')	354.00 (35.82')	353.88 (33.01')	353.59 (33.46')	353.28 (33.79')	352.90 (34.11')						
PGL EXIST.	355.87 355.24	355.88 355.20	355.84 355.17	355.81 355.09	355.71 355.00	355.53 354.80	355.33 354.64	355.10 354.38	354.83 354.13	354.54 353.82	354.17 353.47	353.72 353.11	353.20 352.51	352.60 352.31	351.99 351.84	351.45 351.40	350.93 350.86	350.38	349.95	349.61	349.23	348.86	348.49	348.18	347.84	347.42	347.03	346.65	346.31
MEDIAN SAWCUT (XX' OFFSET)																				351.02 (23.28')	350.61 (23.58')	350.19 (23.99')	349.74 (24.00')	349.35 (24.00')	348.87 (24.00')	348.30 (24.00')	347.80 (24.00')	347.33 (24.00')	346.81 (24.00')
MEDIAN EP (XX' OFFSET)	356.35 (13.00')	356.36 (13.00')	356.32 (13.00')	356.29 (13.00')	356.19 (13.00')	356.01 (13.00')	355.81 (13.00')	355.58 (13.00')	355.31 (13.00')	355.02 (13.00')	354.65 (13.00')									351.19 (25.34')	350.70 (25.06')	350.25 (25.01')	349.79 (25.00')	349.40 (25.00')	348.92 (25.00')	348.34 (25.00')	347.84 (25.00')	347.36 (25.00')	346.84 (25.00')



NB ROUTE 28	221+00	222+00	223+00	224+00	225+00	226+00	227+00
MEDIAN EP (XX' OFFSET)	359.30 (25.00')	359.20 (25.00')	359.03 (25.00')	358.79 (25.00')	358.48 (25.00')	358.10 (25.00')	357.65 (25.00')	357.26 (25.00')	356.93 (25.00')									352.03 (13.51')	351.53 (13.00')	350.98 (13.00')	350.43 (13.00')	349.82 (13.00')	349.15 (13.00')	348.49 (13.00')	347.82 (13.00')	347.15 (13.00')	346.49 (13.00')
PGL EXIST.	360.17 358.87	360.07 358.64	359.90 358.70	359.66 358.55	359.35 358.34	358.97 358.06	358.52 357.68	358.13 357.36	357.80 357.11	357.49 356.80	357.12 356.43	356.68 355.99	356.28 355.59	355.83 355.42	355.37 354.59	354.72 353.99	354.06 353.34	353.44 352.75	352.88 352.25	352.37 351.76	351.79 351.24	351.24 350.57	350.69 349.99	350.08 349.43	349.41 348.91	348.75 348.37	348.08 347.80	347.41 347.21	346.75 346.65
OUTSIDE EP (XX' OFFSET)	361.43 (36.00')	361.33 (36.00')	361.16 (36.00')	360.92 (36.00')	360.61 (36.00')	360.23 (36.00')	359.78 (36.00')	359.39 (36.00')	359.06 (36.00')	358.75 (36.00')	358.38 (36.00')								354.01 (38.60')	353.39 (42.01')	352.63 (42.00')	352.08 (42.00')	351.42 (38.38')	350.80 (36.00')	350.13 (36.00')	349.47 (36.00')	348.80 (36.00')	348.02 (36.00')	347.17 (36.00')

NB ROUTE 28

HORIZ.	0	25'	50'
VERT.	0	5'	10'

PROJECT	SHEET NO.
0028-029-269	21A

2/11/2021
11:24:51 AM

d108720-21B.dgn
Plotted By: cjennings

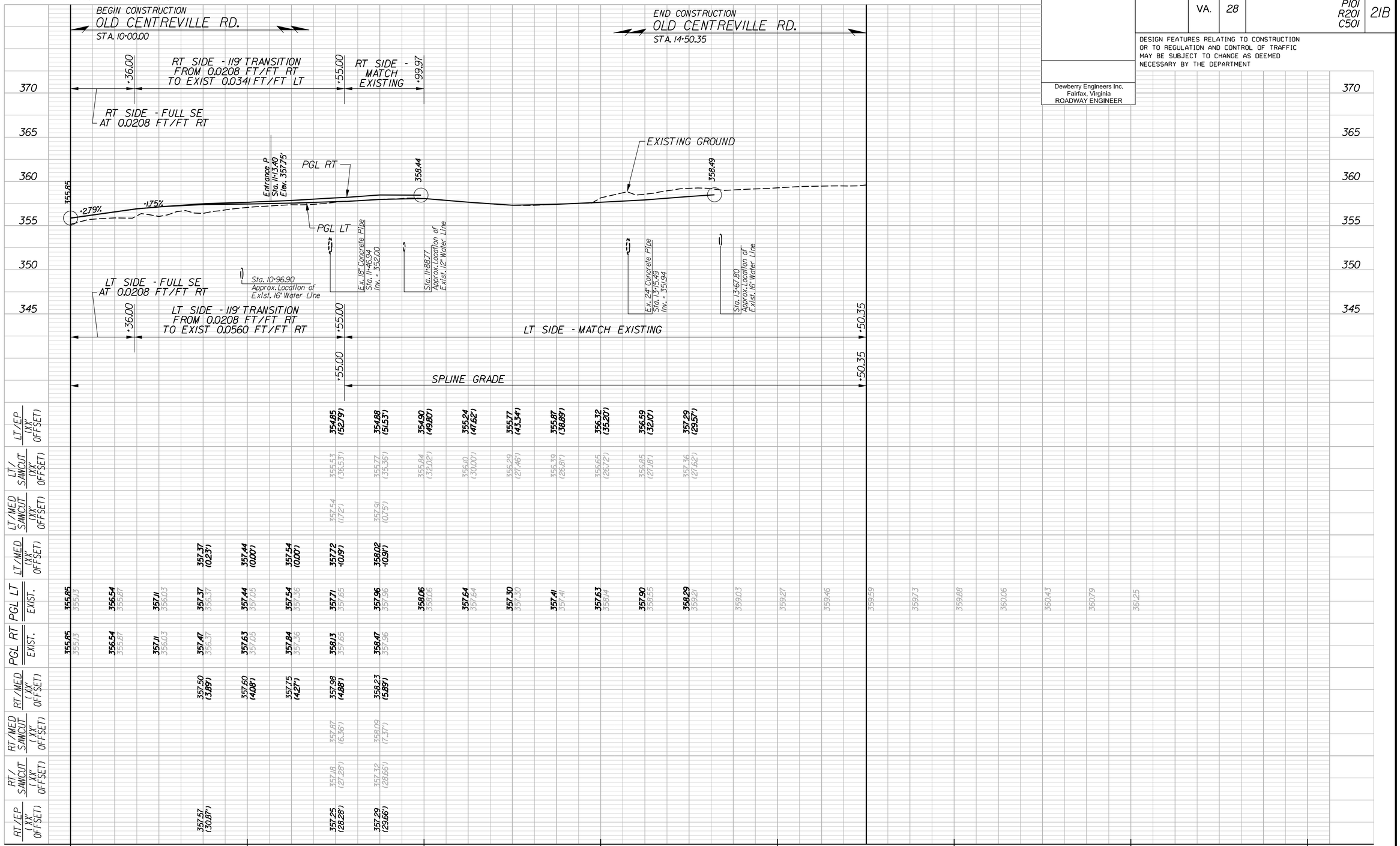
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

OLD CENTREVILLE ROAD

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	21B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



RT/EP (XX' OFFSET)	RT/ SAWCUT (XX' OFFSET)	RT/MED SAWCUT (XX' OFFSET)	RT/MED (XX' OFFSET)	PGL RT EXIST.	PGL LT EXIST.	LT/MED (XX' OFFSET)	LT/MED SAWCUT (XX' OFFSET)	LT/ SAWCUT (XX' OFFSET)	LT/EP (XX' OFFSET)
				355.85 355.13	**355.85** 355.13				
				356.54 355.87	**356.54** 355.87				
				357.11 356.03	**357.11** 356.03				
357.57 (30.87')			**357.50** (3.89)	**357.47** 356.37	**357.37** 356.37	**357.37** (0.23')			
			357.60 (4.08')	**357.63** 357.05	**357.44** 357.05	**357.44** (0.00')			
			357.75 (4.27')	**357.84** 357.36	**357.54** 357.36	**357.54** (0.00')			
357.25 (28.28')	357.18 (27.28')	357.82 (6.36')	**357.98** (4.88')	**358.13** 357.85	**357.71** 357.85	**357.72** +0.19'	357.54 (1.72')	356.53 (36.53')	**354.85** (52.79')
357.29 (29.66')	357.32 (28.66')	358.09 (7.37')	**358.23** (5.89')	**358.47** 357.96	**357.96** 357.96	**358.02** +0.19'	357.91 (0.75')	355.77 (35.36')	**354.88** (51.53')
					358.06 358.06			355.84 (32.02')	**354.90** (49.80')
					357.84 357.84			356.10 (30.00')	**355.24** (47.52')
					357.30 357.30			356.29 (27.46')	**355.27** (43.34')
					357.41 357.41			356.39 (26.81')	**355.87** (38.89')
					357.63 358.14			356.65 (26.72')	**356.32** (35.20')
					357.90 358.55			356.85 (27.81')	**356.59** (32.01')
					358.29 359.21			357.36 (27.62')	**357.29** (29.57')
					359.03				
					359.27				
					359.46				
					359.59				
					359.73				
					359.88				
					360.06				
					360.43				
					360.79				
					361.25				

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT 0028-029-269

SHEET NO. 21B

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	22

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

FORT DR.

EXIST. R/W

CATV Duct (FO) (COX)

Underground SWM Facility II

Guardrail to be replaced if necessary

ROUTE 28 SB

ROUTE 28 SB ℄ N 0° 52' 33" E

End Mill/Overlay SB Rte. 28 Sta. 232+03.27

POT 232+75.00

12' RT +24.29

24.42' RT +24.39

Remove Barrier

24.36' RT +72.60

23.64' LT +36.48

END CONSTRUCTION SB ROUTE 28 STA. 232+72.60

Impact Attenuator TL-3 Req'd.

R = 5.74'

Hinge

R = 150'

37.41'

18.24'

22.25'

19.55'

19.80'

12.96' LT +87.76

End Mill/Overlay NB Rte. 28 Sta. 231+67.19

End Project 0028-029-269, P101 Sta. 232+05.33

POT 232+50

Match Line - Sta. 227+50 - See Sheet 21

ROUTE 28 NB

ROUTE 28 NB ℄ N 0° 52' 33" E

END CONSTRUCTION NB ROUTE 28 STA. 232+36.48

36' +34.01

R=12'

47.83' RT +46.01

041

SH PARK ASSOCIATES
D.B. 24313, PG. 2176
TAX MAP 54-4 ((5)) 2A1

CHEVY CHASE BANK
D.B. 13683, PG. 956
TAX MAP 54-4 ((5)) 2B

EXIST. R/W

INSET A

039

ITY REDEVELOPMENT
SING AUTHORITY
264, PG. 97
4 ((1)) 73C & 73L

END CONSTRUCTION UPPERRIDGE DR. STA. 12+06.12

UPPERRIDGE DR

UPPERRIDGE DR ℄ N 80° 22' 30" W

PC = 11+99.65

PRC = 16+28.02

R = 102'

R = 98'

23.77' LT +06.12

27.22' LT +68.08

PROP. R/W

Match Line - Sta. 11+50 - See Sheet 21

Key Legend (XX)

1	6" Curb, Std. CG-2 Req'd.	11	Curb Ramp, Std. CG-12 Req'd.	23	Guardrail, Std. GR-MGS1 Req'd.	35	Remove Exist. Guardrail
2	4" Curb, Std. CG-3 Req'd.	12	Underdrain Endwall, Std. EW-12 Req'd.	24	Guardrail, Std. GR-MGS1A Req'd.	36	Remove Exist. Fence
3	6" Curb and Gutter, Std. CG-6 Req'd.	13	Shoulder Break Over Line	25	Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.	37	Remove Exist. Structure
4	4" Curb and Gutter, Std. CG-7 Req'd.	14	Groundwater Underdrain, Std. UD-1 Req'd.	26	Guardrail Trailing End Acharage, Std. GR-MGS3 Req'd.	38	Remove Or Abandon and Fill Exist. Pipe
5	Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.	15	Curb-Cut Opening, Drainage Flume	27	Guardrail, Std. GR-10, Type I Req'd.	39	Remove Exist. Pole
6	Not Used	16	Pavement Underdrain, Std. UD-4 Req'd.	28	Guardrail, Std. GR-10, Type II Req'd.	40	Adjust Exist. Structure
7	Conc. Raised Median, Std. MS-1A (6" Curb)	17	Pavement Underdrain, Mod. 6" UD-4 Req'd.	29	Guardrail, Std. GR-10, Type III Req'd.	41	Clean Out Exist. Structure
8	Grass Raised Median, Std. MS-2 (6" Curb)	18	Crossdrain, Std. CD-1 Req'd.	30	Fixed Object Att., Std. GR-FOA-2 Ty.1 Req'd.	42	Full Depth Sawcut
9	Entrance Gutter, Std. CG-9D Req'd.	19	Crossdrain, Std. CD-2 Req'd.	31	Fixed Object Att., Std. GR-FOA-2 Ty.2 Req'd.	43	Clean Out Exist. Pipe
10	Entrance, Std. CG-11 Req'd.	20	Standard Fence, Std. FE-CL Req'd.	32	Guardrail Transition, Std. GR-MGS4 Req'd.	44	10' Gutter Run Out
		21	Grass Raised Median, Std. MS-2 (4" Curb)	33	End CG-9D Entrance Type	45	Median Barrier, Std. MB-8A Req'd.
		22	Chain Link Fence, Std. FE-CL Req'd.	34	Handrail, Std. HR-1 Type III Req'd.	46	Pavement Demarcation Line

Denotes Full Depth Pavement

Denotes SUP/Driveway /Private Entrance Pavement

Denotes Pavement Demolition

Denotes Milling and Overlay / Variable Depth Overlay

(X) Curb Ramp See Sheet 2A(8)-(9)

(CR XX) Curb Return See Sheet 2A(7)

C Denotes Construction Limits In Cuts

F Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(5)
Typical Sections	2A(2), 2A(6)
E&S Phase 1B(1)/2	2F(10)
E&S Phase 3	2G(10)
Upperridge Dr. Profile	19C
Route 28 Profile	22A
Drainage Descriptions	33

Curve URD-2
PI = 14+36.96
DELTA = 61° 21' 34.53" (LT)
D = 14° 19' 26"
T = 237.31'
L = 428.37'
R = 400.00'
PC = 11+99.65
PRC = 16+28.02

SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	22

2/11/2021
11:27:10 AM

d108720-22Adgn
Plotted By: cjennings

Dewberry

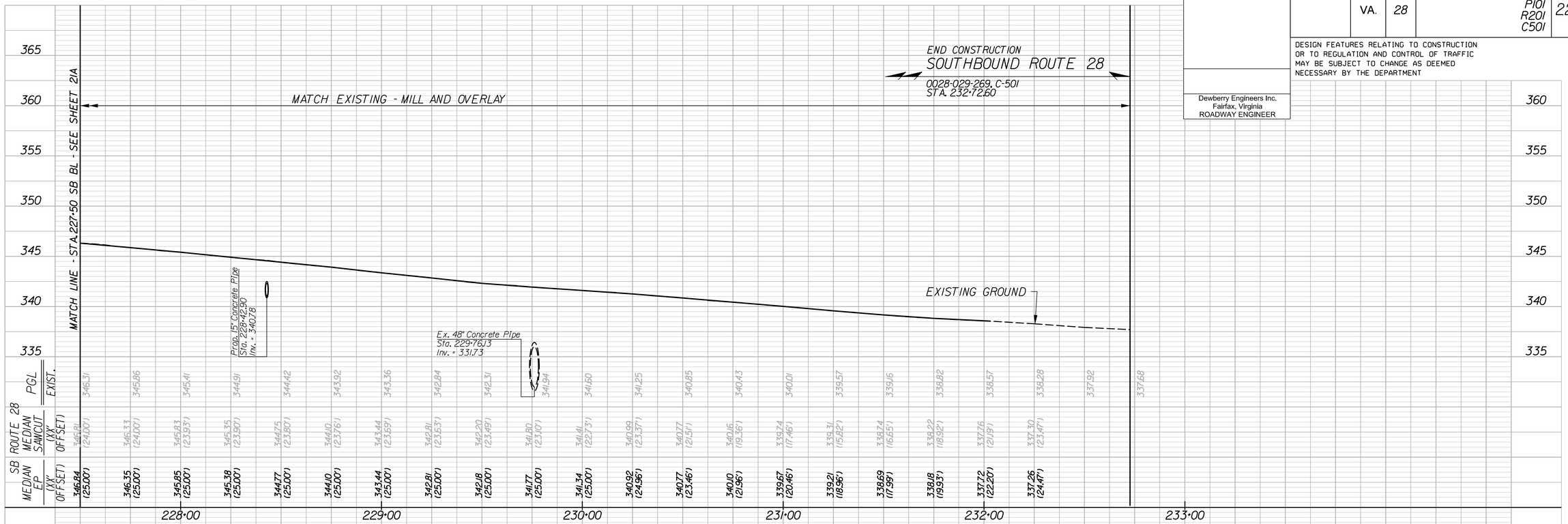
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SB ROUTE 28

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	22A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



NB ROUTE 28

HORIZ.	VERT.	PROJECT	SHEET NO.
0 25' 50'	0 5' 10'	0028-029-269	22A

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	23

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

Match Line - Sta. 14+25 - See Sheet 24

SRINIVAS DASARI & PADMAJA PHANI DASARI
D.B. 12296, PG. 1194
TAX MAP 65-3 ((1)) 71A
009

055
CAPITAL WORSHIP CENTRE, LLC
D.B. 23586, PG. 550
TAX MAP 65-3 ((1)) 72

CAPITAL WORSHIP CENTRE LLC
D.B. 23586, PG. 550
TAX MAP 65-3 ((1)) 71B

D.B. 23586, PG. 550
TAX MAP 65-3 ((1)) 73

ORDWAY RD

PROP. ACQUISITION LINE

Hinge

Ordway Rd. Sta. 11+96.86
Compton Rd. West Sta. 10+00.00

END CONSTRUCTION
COMPTON ROAD WEST
STATION 12+51.92

PC10+07.12

PT12+16.45

EC-3 Ty. I Width = 3'

PROP. GRAD. AGMT. & TEMP. CONST. ESMT

EXIST. R/W

UD-4 to Buck Grade Connect to Str. 23-7

Match Line - Sta. 11+50 - See Sheet 6

N 20° 56' 10" W

N 62° 48' 07" W

COMPTON RD WEST

COMPTON RD (WEST)

Compton/Ordway Medians			
	Alignment	Elev. (Ft.)	Offset / Station
①	Ordway Rd.	224.37	13' LT +71.51
②	Ordway Rd.	224.97	2' RT +71.51
③	Ordway Rd.	223.19	13' LT +42.92
④	Ordway Rd.	223.59	3' LT +42.92

PARCEL "F" - SECTION ONE
CROFTON COMMONS
D.B. 6389, PG. 1853
TAX MAP 65-3 ((3)) F
010

PARCEL "B"
SECTION TWO
CROFTON COMMONS
D.B. 6281, PG. 844
TAX MAP 65-3 ((3)) B

Curve CMPW-1
PI = 11+16.70
DELTA = 41° 51' 57.02" (LT)
D = 20° 00' 00"
T = 109.58'
L = 209.33'
R = 286.48'
PC = 10+07.12
PT = 12+16.45

Curve ORD-1
PI = 12+86.75
DELTA = 92° 14' 02.60" (LT)
D = 22° 00' 35"
T = 270.67'
L = 419.06'
R = 260.32'
PC = 10+16.08
PT = 14+35.14

Key Legend (XX)

1 6" Curb, Std. CG-2 Req'd.
2 4" Curb, Std. CG-3 Req'd.
3 6" Curb and Gutter, Std. CG-6 Req'd.
4 4" Curb and Gutter, Std. CG-7 Req'd.
5 Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.
6 Not Used
7 Conc. Raised Median, Std. MS-1A (6" Curb)
8 Grass Raised Median, Std. MS-2 (6" Curb)
9 Entrance Gutter, Std. CG-9D Req'd.
10 Entrance, Std. CG-11 Req'd.
11 Curb Ramp, Std. CG-12 Req'd.
12 Underdrain Endwall, Std. EW-12 Req'd.
13 Shoulder Break Over Line
14 Groundwater Underdrain, Std. UD-1 Req'd.
15 Curb-Cut Opening, Drainage Flume
16 Pavement Underdrain, Std. UD-4 Req'd.
17 Pavement Underdrain, Mod. 6" UD-4 Req'd.
18 Crossdrain, Std. CD-1 Req'd.
19 Crossdrain, Std. CD-2 Req'd.
20 Standard Fence, Std. FE-CL Req'd.
21 Grass Raised Median, Std. MS-2 (4" Curb)
22 Chain Link Fence, Std. FE-CL Req'd.
23 Guardrail, Std. GR-MGS1 Req'd.
24 Guardrail, Std. GR-MGS1A Req'd.
25 Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.
26 Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.
27 Guardrail, Std. GR-10, Type I Req'd.
28 Guardrail, Std. GR-10, Type II Req'd.
29 Guardrail, Std. GR-10, Type III Req'd.
30 Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.
31 Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.
32 Guardrail Transition, Std. GR-MGS4 Req'd.
33 End CG-9D Entrance Type
34 Handrail, Std. HR-1 Type III Req'd.
35 Remove Exist. Guardrail
36 Remove Exist. Fence
37 Remove Exist. Structure
38 Remove Or Abandon and Fill Exist. Pipe
39 Remove Exist. Pole
40 Adjust Exist. Structure
41 Clean Out Exist. Structure
42 Full Depth Sawcut
43 Clean Out Exist. Pipe
44 10' Gutter Run Out
45 Median Barrier, Std. MB-8A Req'd.
46 Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

(X) Curb Ramp See Sheet 2A(8)-(9)
(CR XX) Curb Return See Sheet 2A(7)
C Denotes Construction Limits In Cuts
F Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	23

2/11/2021
11:29:28 AM

d108720-23Adgn
Plotted By: cjennings

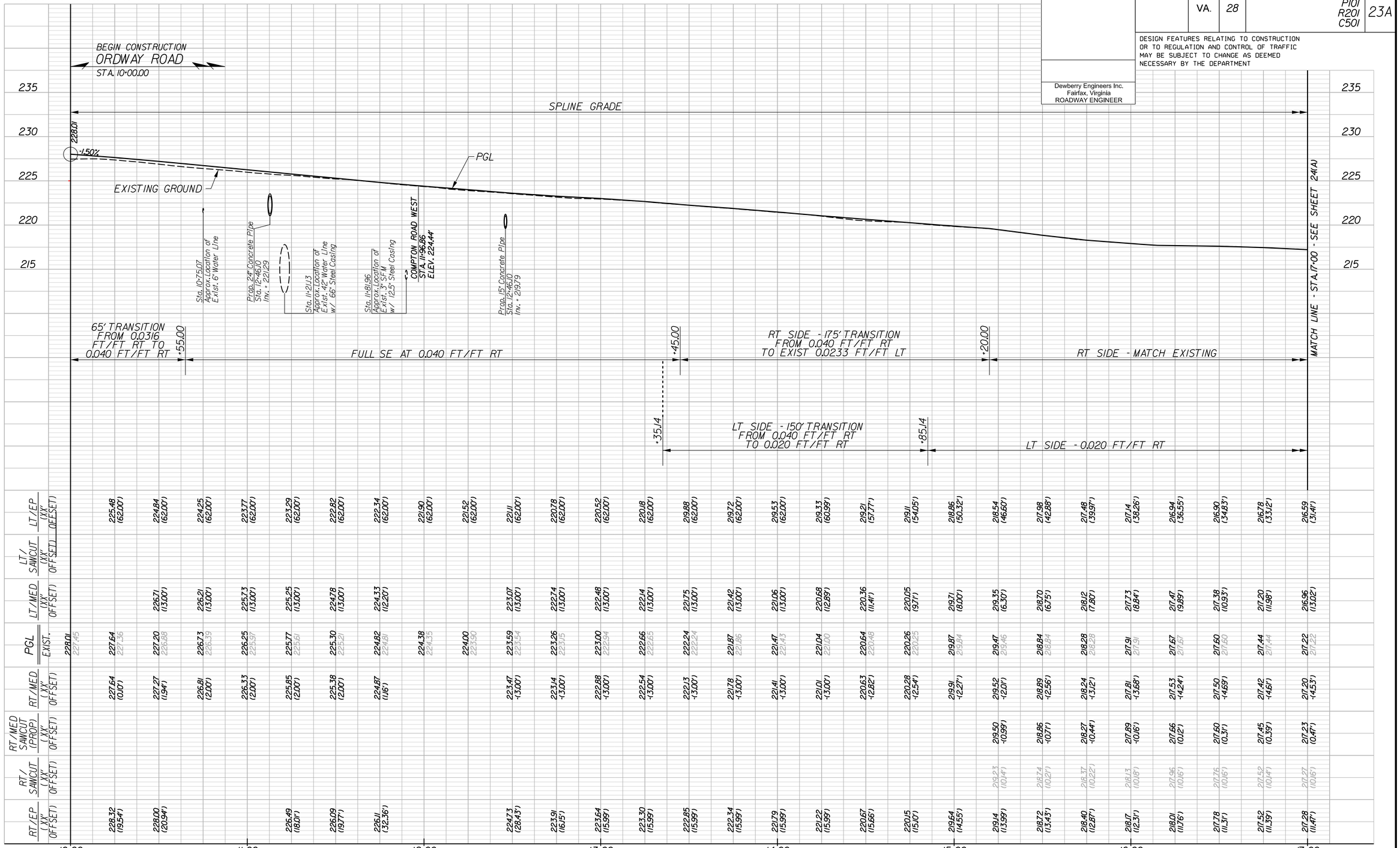
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

ORDWAY ROAD

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	23A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



RT/EP (XX' OFFSET)	RT/SAWCUT (XX' OFFSET)	RT/MED SAWCUT (PROP) (XX' OFFSET)	RT/MED (XX' OFFSET)	PGL EXIST.	PGL	LT/MED (XX' OFFSET)	LT/SAWCUT (XX' OFFSET)	LT/EP (XX' OFFSET)
				228.01	227.45			
228.32 (19.54')			227.64 (0.01')	227.64	227.36			225.48 (62.00')
228.00 (20.94')			227.27 (1.94')	227.20	226.88	226.71 (13.00')		224.84 (62.00')
			226.81 (2.00')	226.73	226.39	226.21 (13.00')		224.25 (62.00')
			226.33 (2.00')	226.25	225.97	225.73 (13.00')		223.77 (62.00')
226.49 (16.01')			225.85 (2.00')	225.77	225.61	225.25 (13.00')		223.29 (62.00')
226.09 (19.77')			225.38 (2.00')	225.30	225.21	224.78 (13.00')		222.82 (62.00')
226.11 (32.36')			224.87 (1.16')	224.82	224.81	224.33 (12.20')		222.34 (62.00')
				224.38	224.35			221.90 (62.00')
				224.00	223.90			221.52 (62.00')
224.73 (28.43')			223.47 +3.00'	223.59	223.54	223.07 (13.00')		221.11 (62.00')
223.91 (16.15')			223.14 +3.00'	223.26	223.15	222.74 (13.00')		220.78 (62.00')
223.64 (15.99')			222.88 +3.00'	223.00	222.94	222.48 (13.00')		220.52 (62.00')
223.30 (15.99')			222.54 +3.00'	222.66	222.65	222.14 (13.00')		220.18 (62.00')
222.85 (15.99')			222.13 +3.00'	222.24	222.24	221.75 (13.00')		219.88 (62.00')
222.34 (15.99')			221.78 +3.00'	221.87	221.86	221.42 (13.00')		219.72 (62.00')
221.79 (15.99')			221.41 +3.00'	221.47	221.45	221.06 (13.00')		219.53 (62.00')
221.22 (15.99')			221.01 +3.00'	221.04	221.00	220.68 (12.89')		219.33 (60.99')
220.67 (15.66')			220.63 +2.82')	220.64	220.48	220.36 (11.41')		219.21 (57.77')
220.15 (15.01')			220.28 +2.54')	220.26	220.25	220.05 (9.71')		219.11 (54.05')
219.64 (14.55')			219.91 +2.27')	219.87	219.84	219.71 (8.00')		218.86 (50.32')
219.14 (13.99')	219.23 (10.14')	219.50 +10.99')	219.52 +2.01')	219.47	219.46	219.35 (6.30')		218.54 (46.60')
218.72 (13.43')	218.74 (10.21')	218.86 +10.71')	218.89 +2.56')	218.84	218.84	218.70 (6.75')		217.98 (42.88')
218.40 (12.87')	218.37 (10.22')	218.27 +10.44')	218.24 +3.12')	218.28	218.28	218.12 (7.80')		217.48 (39.97')
218.17 (12.31')	218.13 (10.18')	217.89 +10.16')	217.81 +3.68')	217.91	217.91	217.73 (8.84')		217.14 (38.26')
218.01 (11.76')	217.96 (10.16')	217.66 (0.12')	217.53 +4.24')	217.67	217.67	217.47 (9.89')		216.94 (36.55')
217.78 (11.31')	217.76 (10.16')	217.60 (0.31')	217.50 +4.69')	217.60	217.60	217.38 (10.93')		216.90 (34.83')
217.52 (11.39')	217.52 (10.14')	217.45 (0.39')	217.42 +4.61')	217.44	217.44	217.20 (11.98')		216.78 (33.12')
217.28 (11.47')	217.27 (10.16')	217.23 (0.47')	217.20 +4.53')	217.22	217.22	216.96 (13.02')		216.59 (31.41')

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT 0028-029-269

SHEET NO. 23A

2/11/2021
11:30:35 AM

d108720-23B.dgn
Plotted By: cjennings

Dewberry

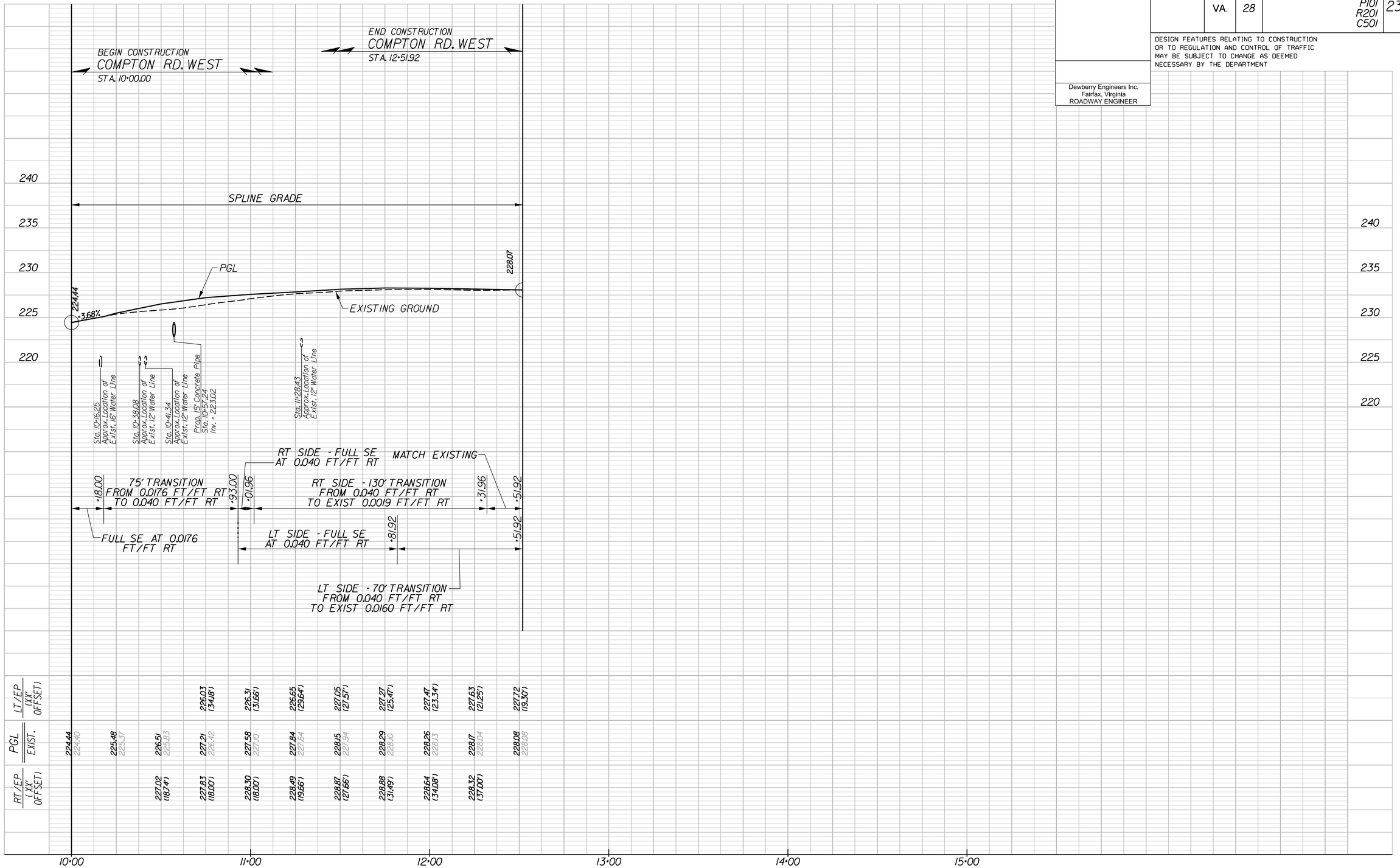
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

COMPTON ROAD WEST

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	23B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



	10+00	10+25	10+50	10+75	11+00	11+25	11+50	11+75	12+00
LT./EP. (XX' OFFSET)				226.03 (34.08')	226.31 (31.66')	226.65 (29.64')	227.05 (27.57')	227.27 (25.47')	227.47 (23.34')
PGL / EXIST.	224.44 / 224.46	225.48 / 225.37	226.51 / 225.83	227.21 / 226.42	227.58 / 227.10	227.84 / 227.64	228.15 / 227.94	228.29 / 228.10	228.26 / 228.13
RT./EP. (XX' OFFSET)			227.02 (18.74')	227.83 (18.00')	228.30 (18.00')	228.49 (19.66')	228.87 (27.66')	228.88 (31.49')	228.64 (34.08')

	12+25	12+50	12+75	13+00	13+25	13+50	13+75	14+00	14+25
LT./EP. (XX' OFFSET)	227.63 (21.25')	227.72 (19.30')							
PGL / EXIST.	228.17 / 228.04	228.08 / 228.08							
RT./EP. (XX' OFFSET)	228.32 (37.00')								

	14+50	14+75	15+00
LT./EP. (XX' OFFSET)			
PGL / EXIST.			
RT./EP. (XX' OFFSET)			

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT	SHEET NO.
0028-029-269	23B

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	24

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

Match Line - See Sheet 6
Match Line - See Sheet 5
Match Line - Sta. 14+25 - See Sheet 23
PT 14+35.14

600
SRINIVAS DASARI &
PADMAJA PHANI DASARI
D.B. 21974, PG. 1112
TAX MAP 65-3 ((1)) 71A

SWM 1

PROP. ACQUISITION LINE
PROP. STORM DRAIN. ESMT.
24-5
24-6
24-7
24-4
24-3
24-2
24-8
24-1

12' DOUBLE SWING GATE REQ'D
Hinge
Maximum Pond Access Road slope = 7.7%

ORDWAY RD
EXIST. R/W
UD-4 to Buck Grade Connect to Str. 23-7
3' LT 32.26
5.93' LT 30.36
40.98' LT 64.91
36.75' LT 51.09
31.83' LT 22.92
29.13' LT 33.12
13.08' LT 32.34
4.70' LT 45.91
11.31' RT 45.65
13.40' LT 09.00
11.47' RT 63.01
15.73' RT 71.98
2' LT 24.52

R=30'
R=210'
R=3'
R=12'
S 24° 31' 44" W
PT 21+34.44

Do not disturb Fence
PROP. GRAD. AGMT. & TEMP. CONST. ESMT.
END CONSTRUCTION ORDWAY ROAD STATION 20+16.40

Curve ORD-1
PI = 12+86.75
DELTA = 92° 14' 02.60" (LT)
D = 22° 00' 35"
T = 270.67'
L = 419.06'
R = 260.32'
PC = 10+16.08
PT = 14+35.14

CAPITAL WORSHIP CENTRE LLC
D.B. 23586, PG. 550
TAX MAP 65-3 ((1)) 71B

CAPITAL WORSHIP CENTRE LLC
D.B. 23586, PG. 550
TAX MAP 65-3 ((1))76B

CAPITAL WORSHIP CENTRE LLC
D.B. 23586, PG. 550
TAX MAP 65-3 ((1))76C

CINDY THUY TRUONG
D.B. 25050, PG. 1821
TAX MAP 65-3 ((2)) 3

046

JANICE A MITCHELL
D.B. 730, PG. 381
TAX MAP 65-3 ((2)) 4

047

ASTRIT VEIZI
D.B. 20822, PG. 1687
TAX MAP 65-3 ((2)) 5

TUAN ANH LUU TRAN & HAN NGOC NGUYEN
D.B. 25990, PG. 1614
TAX MAP 65-3 ((1)) 76A

Light Pole NOVEC 354 22 4 031
Light Pole NOVEC 354 22 4 032
Power Pole OVEC 54 22 4 030
Tele. Pole C & P VA 157
Light Pole C & P VA 55 1/2
Power Pole C & P VA 55 5 9 Abandoned

Ordway Medians

	Alignment	Elev. (Ft.)	Offset/ Station
①	Ordway Rd.	216.75	4.30' LT 72.15
②	Ordway Rd.	216.51	10.29' LT 72.37

Key Legend XX

1 6" Curb, Std. CG-2 Req'd.
2 4" Curb, Std. CG-3 Req'd.
3 6" Curb and Gutter, Std. CG-6 Req'd.
4 4" Curb and Gutter, Std. CG-7 Req'd.
5 Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.
6 Not Used
7 Conc. Raised Median, Std. MS-1A (6" Curb)
8 Grass Raised Median, Std. MS-2 (6" Curb)
9 Entrance Gutter, Std. CG-9D Req'd.
10 Entrance, Std. CG-11 Req'd.
11 Curb Ramp, Std. CG-12 Req'd.
12 Underdrain Endwall, Std. EW-12 Req'd.
13 Shoulder Break Over Line
14 Groundwater Underdrain, Std. UD-1 Req'd.
15 Curb-Cut Opening, Drainage Flume
16 Pavement Underdrain, Std. UD-4 Req'd.
17 Pavement Underdrain, Mod. 6" UD-4 Req'd.
18 Crossdrain, Std. CD-1 Req'd.
19 Crossdrain, Std. CD-2 Req'd.
20 Standard Fence, Std. FE-CL Req'd.
21 Grass Raised Median, Std. MS-2 (4" Curb)
22 Chain Link Fence, Std. FE-CL Req'd.
23 Guardrail, Std. GR-MGS1 Req'd.
24 Guardrail, Std. GR-MGS1A Req'd.
25 Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.
26 Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.
27 Guardrail, Std. GR-10, Type I Req'd.
28 Guardrail, Std. GR-10, Type II Req'd.
29 Guardrail, Std. GR-10, Type III Req'd.
30 Fixed Object Att., Std. GR-FOA-2 Ty. 1 Req'd.
31 Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.
32 Guardrail Transition, Std. GR-MGS4 Req'd.
33 End CG-9D Entrance Type
34 Handrail, Std. HR-1 Type III Req'd.
35 Remove Exist. Guardrail
36 Remove Exist. Fence
37 Remove Exist. Structure
38 Remove Or Abandon and Fill Exist. Pipe
39 Remove Exist. Pole
40 Adjust Exist. Structure
41 Clean Out Exist. Structure
42 Full Depth Sawcut
43 Clean Out Exist. Pipe
44 10' Gutter Run Out
45 Median Barrier, Std. MB-8A Req'd.
46 Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

X Curb Ramp See Sheet 2A(8)-(9)
CR XX Curb Return See Sheet 2A(7)
C Denotes Construction Limits In Cuts
F Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(1)
Typical Sections	2A(3), 2A(6)
E&S Phase 1B(1)/2	2F(1)
E&S Phase 3	2G(1)
Ordway Rd. Profile	24A
Drainage Descriptions	33

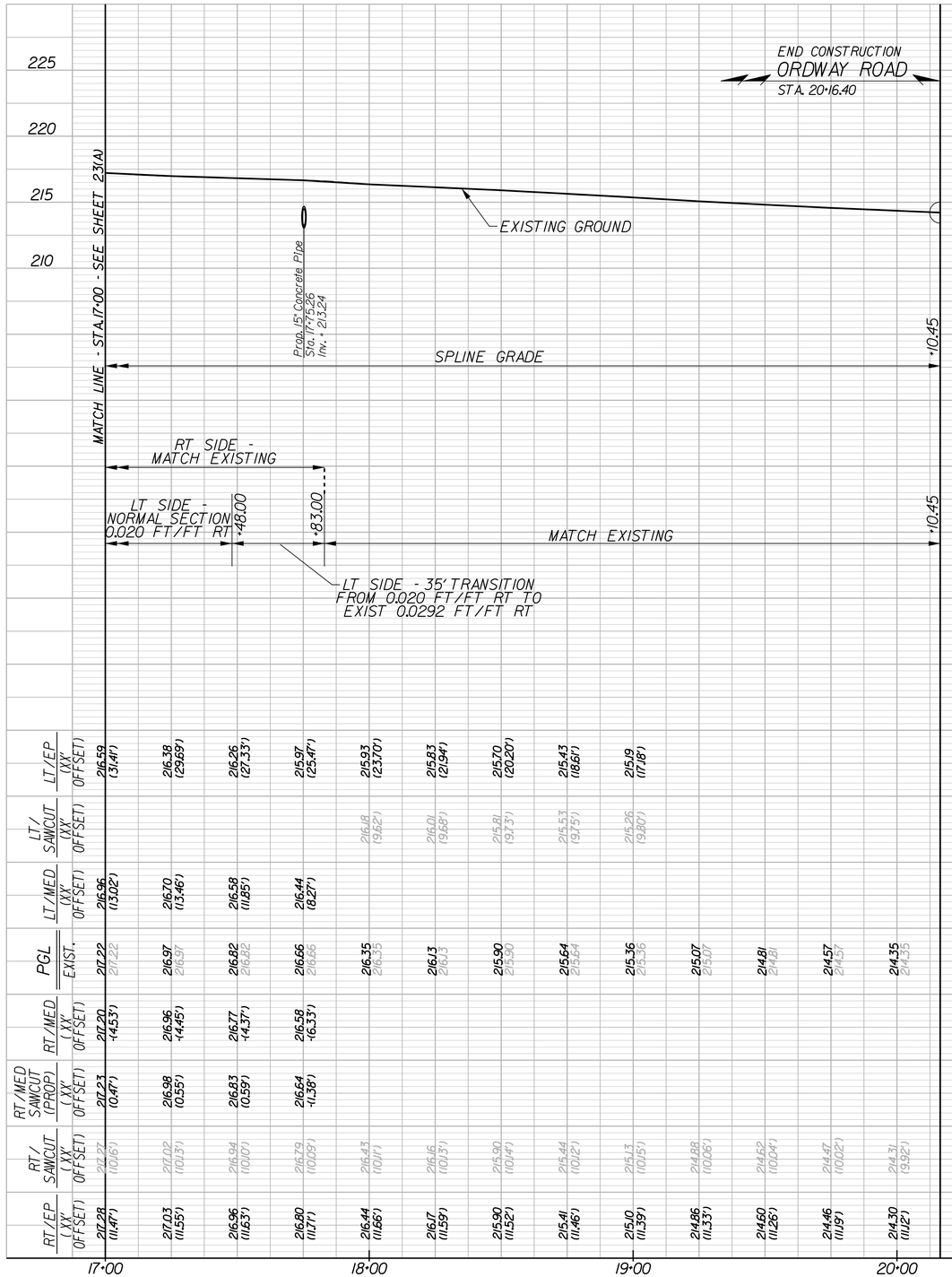
SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	24

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

ORDWAY ROAD



RT/EP (XX' OFFSET)	RT/SAWCUT (XX' OFFSET)	RT/MED SAWCUT (PROP) (XX' OFFSET)	RT/MED (XX' OFFSET)	PGL EXIST.	LT/MED (XX' OFFSET)	LT/SAWCUT (XX' OFFSET)	LT/EP (XX' OFFSET)
217.28 (11.47')	217.22 (10.16')	217.23 (10.47')	217.20 -14.53'	217.22 217.22	216.96 (13.02')		216.59 (31.41')
217.03 (11.55')	217.02 (10.31')	216.98 (10.55')	216.96 -14.45'	216.97 216.97	216.70 (13.46')		216.38 (29.69')
216.96 (11.63')	216.94 (10.01')	216.83 (10.59')	216.77 -14.37'	216.82 216.82	216.58 (11.85')		216.26 (27.33')
216.80 (11.71')	216.79 (10.09')	216.64 (11.38')	216.58 -16.33'	216.66 216.66	216.44 (8.27')		215.97 (25.47')
216.44 (11.66')	216.43 (10.11')			216.35 216.35		216.18 (9.82')	215.93 (23.70')
216.17 (11.59')	216.16 (10.31')			216.13 216.13		216.01 (9.68')	215.83 (21.94')
215.90 (11.52')	215.90 (10.44')			215.90 215.90		215.81 (9.73')	215.70 (20.20')
215.41 (11.46')	215.44 (10.12')			215.64 215.64		215.53 (9.75')	215.43 (18.61')
215.10 (11.39')	215.13 (10.15')			215.36 215.36		215.26 (9.80')	215.19 (17.18')
214.86 (11.33')	214.88 (10.08')			215.07 215.07			
214.60 (11.26')	214.62 (10.04')			214.81 214.81			
214.46 (11.19')	214.47 (10.02')			214.57 214.57			
214.30 (11.12')	214.31 (9.92')			214.35 214.35			

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	24A

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT 0028-029-269

SHEET NO. 24A

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	25

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

COMPTON VILLAGE HOMEOWNERS ASSOCIATION
D.B. 10272, PG. 1521
TAX MAP 65-3 ((12)) S2

011

COMPTON VILLAGE HOMEOWNERS ASSOCIATION
D.B. 9186, PG. 290
TAX MAP 65-3 ((12)) S1

PARCEL "RR"
COMPTON VILLAGE
SECTION 15
D.B. 10272, PG. 1521
TAX MAP 65-3 ((12)) R2

Match Line - Sta. 11+50 - See Sheet 6

PROP. GRAD. AGMT. & TEMP. CONST. ESMT
EXIST. R/W
33' LT 53.08
Hinge
EC-3 Ty. I Width = 7'
EC-3 Ty. I Width = 5'
S 60° 03' 55" E
14.22' RT 01.28
12' RT 43.88
R=12'
13.73' RT 49.88
Hinge
6.75 Tons Class I Rip Rap Req'd. D = 1.5'
COMPTON RD EAST
END CONSTRUCTION
COMPTON ROAD EAST
STATION 14+59.45
EX 25-6
8.5 Tons Class I Rip Rap Req'd. D = 1.5'
16.24' LT 59.45
R = 12'
12.46' LT 50.18
EC-3 Ty. I Width = 6'
PC 14+59.46
EX 25-5
EX. STORM DRAINAGE ESMT D.B. 10272, PG. 1515
EX. STORM DRAINAGE ESMT D.B. 10272, PG. 1529
EX. SLOPE AND CONSTRUCTION ESMT. D.B. 10272, PG. 1521
EX. TRAIL ESMT. D.B. 10272, PG. 1521
EX. NOVEC ESMT (APPROX. LOCATION) D.B. 6604, PG. 1626
EX. NOVEC & O&P ESMT. D.B. 6604, PG. 1626
EX. 053
EX. 018
EX. 020
EX. 052
EX. 113
EX. 054
EX. 055
RIM=204.47
Not Found
OHL
OBSC
T&T/Tg Duct (VZNXFO)
CATV Duct (VZNXFO)
24" SFM
16" W
VAULT
UNKNOWN VAULT
TOS 830.00
USSA-LARRE W

EXIST. R/W
PT 19+47.94
PT 17+01.77
PC 17+24.31
S 75° 48' 56" E
20
19
18
16
15

ROBERT ALFRED WARD II AND DORIS ELVA METZGER
D.B. 4524, PG. 749
TAX MAP 65-3 ((1)) 58

DAVID L. HUNTER
D.B. 7200, PG. 1180
TAX MAP 65-3 ((1)) 59

DAVID L. HUNTER
D.B. 7200, PG. 1180
TAX MAP 65-3 ((1)) 60

FAIRFAX COUNTY BOARD OF SUPERVISIORS
D.B. 9186, PG. 290
TAX MAP 65-3 ((12)) T1

FARKHANDA IQBAL
D.B. 25875, PG. 1939
TAX MAP 65-3 ((1)) 65

VASILIKI I. KOUKIS, YIORGOS PAPADOPOULOS, EVANTHIA BOUZIS
D.B. 22963, PG. 1178
TAX MAP 65-3 ((1)) 63

Key Legend (XX)

1 6" Curb, Std. CG-2 Req'd.
2 4" Curb, Std. CG-3 Req'd.
3 6" Curb and Gutter, Std. CG-6 Req'd.
4 4" Curb and Gutter, Std. CG-7 Req'd.
5 Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.
6 Not Used
7 Conc. Raised Median, Std. MS-1A (6" Curb)
8 Grass Raised Median, Std. MS-2 (6" Curb)
9 Entrance Gutter, Std. CG-9D Req'd.
10 Entrance, Std. CG-11 Req'd.
11 Curb Ramp, Std. CG-12 Req'd.
12 Underdrain Endwall, Std. EW-12 Req'd.
13 Shoulder Break Over Line
14 Groundwater Underdrain, Std. UD-1 Req'd.
15 Curb-Cut Opening, Drainage Flume
16 Pavement Underdrain, Std. UD-4 Req'd.
17 Pavement Underdrain, Mod. 6" UD-4 Req'd.
18 Crossdrain, Std. CD-1 Req'd.
19 Crossdrain, Std. CD-2 Req'd.
20 Standard Fence, Std. FE-CL Req'd.
21 Grass Raised Median, Std. MS-2 (4" Curb)
22 Chain Link Fence, Std. FE-CL Req'd.
23 Guardrail, Std. GR-MGS1 Req'd.
24 Guardrail, Std. GR-MGS1A Req'd.
25 Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.
26 Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.
27 Guardrail, Std. GR-10, Type I Req'd.
28 Guardrail, Std. GR-10, Type II Req'd.
29 Guardrail, Std. GR-10, Type III Req'd.
30 Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.
31 Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.
32 Guardrail Transition, Std. GR-MGS4 Req'd.
33 End CG-9D Entrance Type
34 Handrail, Std. HR-1 Type III Req'd.
35 Remove Exist. Guardrail
36 Remove Exist. Fence
37 Remove Exist. Structure
38 Remove Or Abandon and Fill Exist. Pipe
39 Remove Exist. Pole
40 Adjust Exist. Structure
41 Clean Out Exist. Structure
42 Full Depth Sawcut
43 Clean Out Exist. Pipe
44 10' Gutter Run Out
45 Median Barrier, Std. MB-8A Req'd.
46 Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

X — Curb Ramp See Sheet 2A(8)-(9)
CR XX — Curb Return See Sheet 2A(7)
C — Denotes Construction Limits In Cuts
F — Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Curve CMPE-1
PI = 15+81.38
DELTA = 15° 45' 00.77" (LT)
D = 6° 30' 00"
T = 121.92'
L = 242.31'
R = 881.41'
PC = 14+59.46
PT = 17+01.77

Curve CMPE-2
PI = 18+45.93
DELTA = 55° 54' 28.42" (LT)
D = 25° 00' 01"
T = 121.62'
L = 223.63'
R = 229.18'
PC = 17+24.31
PT = 19+47.94

SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	25

2/11/2021
11:35:23 AM

d108720-25Adgn
Plotted By: cjennings

Dewberry

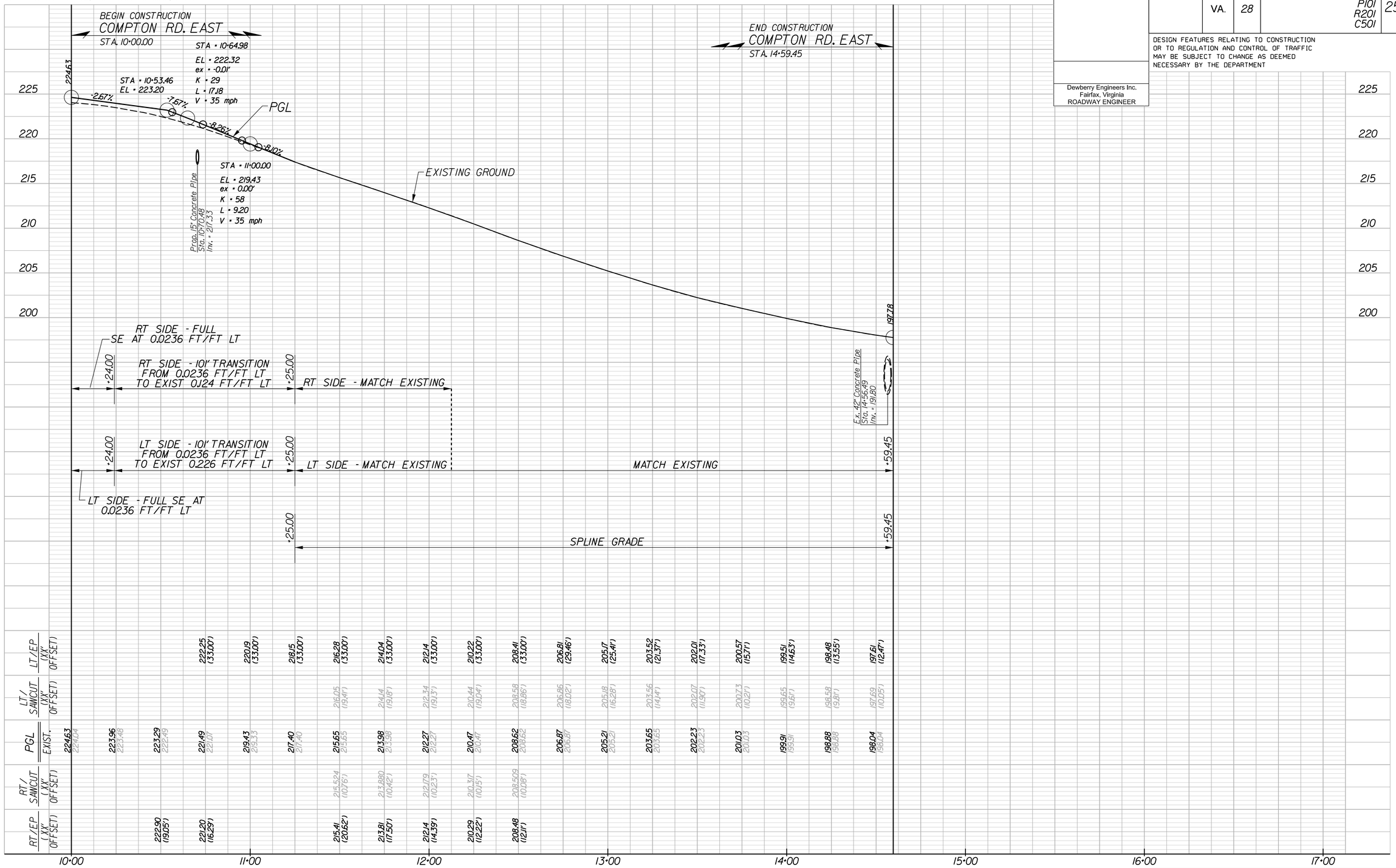
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

COMPTON ROAD EAST

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	25A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



	RT/EP (XX' OFFSET)	RT/ SAWCUT (XX' OFFSET)	PGL EXIST.	LT/ SAWCUT (XX' OFFSET)	LT/EP (XX' OFFSET)
10+00			224.63 224.04		
	222.90 (19.05')		223.96 223.48		222.25 (33.00')
	221.20 (16.29')		223.29 222.49		220.9 (33.00')
11+00			221.49 221.07		218.15 (33.00')
	215.41 (20.62')	215.524 (10.76')	219.43 218.90	216.05 (19.41')	216.28 (33.00')
	213.81 (17.50')	213.880 (10.42')	217.40 217.40	214.14 (19.18')	214.04 (33.00')
12+00	212.14 (14.39')	212.179 (10.23')	215.65 215.85	212.34 (19.13')	212.14 (33.00')
	210.29 (12.22')	210.317 (10.15')	213.98 213.98	210.44 (19.04')	210.22 (33.00')
	208.48 (12.11')	208.509 (10.08')	212.27 212.27	208.58 (18.96')	208.41 (33.00')
13+00			210.47 210.47	206.86 (18.02')	206.81 (29.46')
			208.62 208.62	205.08 (16.28')	205.17 (25.41')
14+00			206.87 206.87	203.56 (14.14')	203.52 (21.37')
			205.21 205.21	202.07 (11.90')	202.01 (17.33')
15+00			203.65 203.65	200.73 (10.21')	200.57 (15.71')
			202.23 202.23	199.65 (9.61')	199.51 (14.63')
16+00			201.03 201.03	198.58 (9.81')	198.48 (13.55')
			199.91 199.91	197.69 (10.05')	197.61 (12.47')
17+00			198.88 198.88		
			198.04 198.04		

HORIZ. 0 25' 50'
VERT. 0 5' 10'

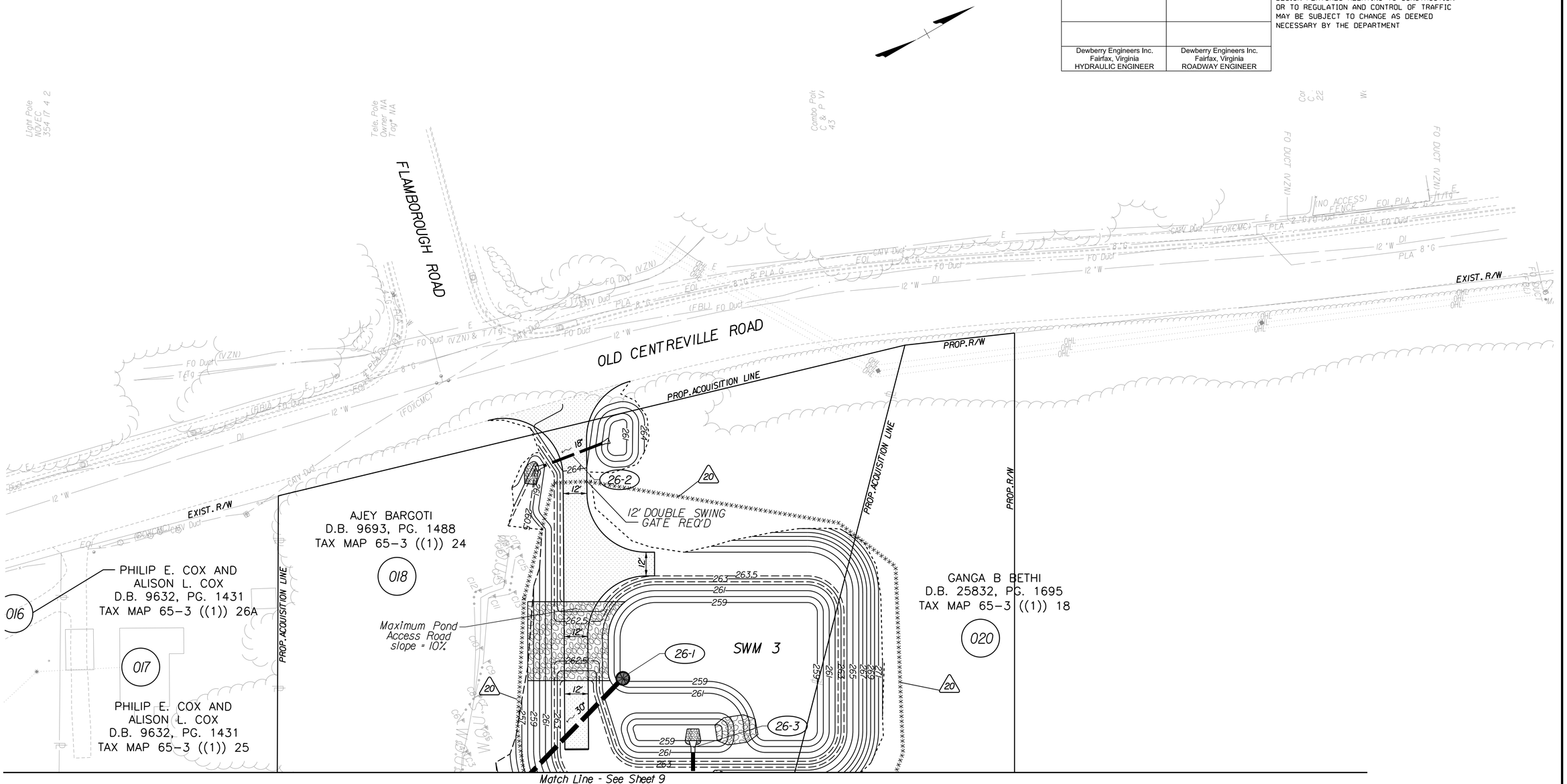
PROJECT	SHEET NO.
0028-029-269	25A

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
.	VA.	28	0028-029-269 P101 R201 C501	26

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER



Key Legend (XX)

1 6" Curb, Std. CG-2 Req'd.
2 4" Curb, Std. CG-3 Req'd.
3 6" Curb and Gutter, Std. CG-6 Req'd.
4 4" Curb and Gutter, Std. CG-7 Req'd.
5 Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.
6 Not Used
7 Conc. Raised Median, Std. MS-1A (6" Curb)
8 Grass Raised Median, Std. MS-2 (6" Curb)
9 Entrance Gutter, Std. CG-9D Req'd.
10 Entrance, Std. CG-11 Req'd.
11 Curb Ramp, Std. CG-12 Req'd.
12 Underdrain Endwall, Std. EW-12 Req'd.
13 Shoulder Break Over Line
14 Groundwater Underdrain, Std. UD-1 Req'd.
15 Curb-Cut Opening, Drainage Flume
16 Pavement Underdrain, Std. UD-4 Req'd.
17 Pavement Underdrain, Mod. 6" UD-4 Req'd.
18 Crossdrain, Std. CD-1 Req'd.
19 Crossdrain, Std. CD-2 Req'd.
20 Standard Fence, Std. FE-CL Req'd.
21 Grass Raised Median, Std. MS-2 (4" Curb)
22 Chain Link Fence, Std. FE-CL Req'd.
23 Guardrail, Std. GR-MGS1 Req'd.
24 Guardrail, Std. GR-MGS1A Req'd.
25 Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.
26 Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.
27 Guardrail, Std. GR-10, Type I Req'd.
28 Guardrail, Std. GR-10, Type II Req'd.
29 Guardrail, Std. GR-10, Type III Req'd.
30 Fixed Object Att., Std. GR-FOA-2 Ty.1 Req'd.
31 Fixed Object Att., Std. GR-FOA-2 Ty.2 Req'd.
32 Guardrail Transition, Std. GR-MGS4 Req'd.
33 End CG-9D Entrance Type
34 Handrail, Std. HR-1 Type III Req'd.
35 Remove Exist. Guardrail
36 Remove Exist. Fence
37 Remove Exist. Structure
38 Remove Or Abandon and Fill Exist. Pipe
39 Remove Exist. Pole
40 Adjust Exist. Structure
41 Clean Out Exist. Structure
42 Full Depth Sawcut
43 Clean Out Exist. Pipe
44 10' Gutter Run Out
45 Median Barrier, Std. MB-8A Req'd.
46 Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

X Curb Ramp See Sheet 2A(8)-(9)
CR XX Curb Return See Sheet 2A(7)
C Denotes Construction Limits In Cuts
F Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Typical Sections	2A(6)
E&S Phase 1B(1)/2	2F(4)
E&S Phase 3	2G(4)
Drainage Descriptions	33

SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	26

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	27

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

PT 15+77.04
PC 15+15.07
EXIST. R/W
PARCEL "C"
OLD MILL
SECTION 1
D.B. 8112, PG. 1168
TAX MAP 65-1 ((9)) C
VIRGINIA ELECTRIC & POWER COMPANY D.B. 3122, PG. 509 TAX MAP 65-3 ((1)) 14
END CONSTRUCTION
OLD MILL RD.
STA. 13+76.97
OLD MILL RD
N 55° 36' 39" W
24' 76.67
31' 76.97
PROP. GRAD. AGMT. & TEMP. CONST. ESMT.
HInge
OLD MILL
SECTION 1
D.B. 8112, PG. 1168
LOT 1
LOT 2
LOT 3
LOT 4
LOT 5
LOT 14
LOT 15
LOT 16
LOT 17
LOT 18
EX. 15' CSE ESMT APPROX. LOCATION DB. 8642 PG. 1252
EX. SIGHT DISTANCE ESMT. D.B. 19737, PG. 299
EX. STORM DRAINAGE ESMT. D.B. 8112, PG. 1168
EX. SANITARY SEWER ESMT. D.B. 8112, PG. 1168
EX. WASHINGTON GAS LIGHT CO. ESMT. D.B. 3225, PG. 525
MONITOR ST A
022
PARCEL "A"
OLD MILL
SECTION 1
D.B. 8112, PG. 1168
TAX MAP 65-3 ((10)) A

Curve OLD-1
PI = 15+46.31
DELTA = 17° 45' 15.02" (RT)
D = 28° 38' 52"
T = 31.24'
L = 61.97'
R = 200.00'
PC = 15+15.07
PT = 15+77.04

Match Line - Sta. 11+25 - See Sheet 11

Key Legend (XX)

1 6" Curb, Std. CG-2 Req'd.	11 Curb Ramp, Std. CG-12 Req'd.	23 Guardrail, Std. GR-MGSI Req'd.	35 Remove Exist. Guardrail
2 4" Curb, Std. CG-3 Req'd.	12 Underdrain Endwall, Std. EW-12 Req'd.	24 Guardrail, Std. GR-MGSIA Req'd.	36 Remove Exist. Fence
3 6" Curb and Gutter, Std. CG-6 Req'd.	13 Shoulder Break Over Line	25 Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.	37 Remove Exist. Structure
4 4" Curb and Gutter, Std. CG-7 Req'd.	14 Groundwater Underdrain, Std. UD-1 Req'd.	26 Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.	38 Remove Or Abandon and Fill Exist. Pipe
5 Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.	15 Curb-Cut Opening, Drainage Flume	27 Guardrail, Std. GR-10, Type I Req'd.	39 Remove Exist. Pole
6 Not Used	16 Pavement Underdrain, Std. UD-4 Req'd.	28 Guardrail, Std. GR-10, Type II Req'd.	40 Ad Just Exist. Structure
7 Conc. Raised Median, Std. MS-1A (6" Curb)	17 Pavement Underdrain, Mod. 6" UD-4 Req'd.	29 Guardrail, Std. GR-10, Type III Req'd.	41 Clean Out Exist. Structure
8 Grass Raised Median, Std. MS-2 (6" Curb)	18 Crossdrain, Std. CD-1 Req'd.	30 Fixed Object Att., Std. GR-FOA-2 Ty. 1 Req'd.	42 Full Depth Sawcut
9 Entrance Gutter, Std. CG-9D Req'd.	19 Crossdrain, Std. CD-2 Req'd.	31 Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.	43 Clean Out Exist. Pipe
10 Entrance, Std. CG-11 Req'd.	20 Standard Fence, Std. FE-CL Req'd.	32 Guardrail Transition, Std. GR-MGS4 Req'd.	44 10' Gutter Run Out
	21 Grass Raised Median, Std. MS-2 (4" Curb)	33 End CG-9D Entrance Type	45 Median Barrier, Std. MB-8A Req'd.
	22 Chain Link Fence, Std. FE-CL Req'd.	34 Handrail, Std. HR-1 Type III Req'd.	46 Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

[X] Curb Ramp See Sheet 2A(8)-19
(CR XX) Curb Return See Sheet 2A(7)
C Denotes Construction Limits In Cuts
F Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(3)
Typical Sections	2A(3)
E&S Phase 1B(1)/2	2F(5)
E&S Phase 3	2G(5)
Old Mill Rd. Profile	11B
Drainage Descriptions	33

SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	27

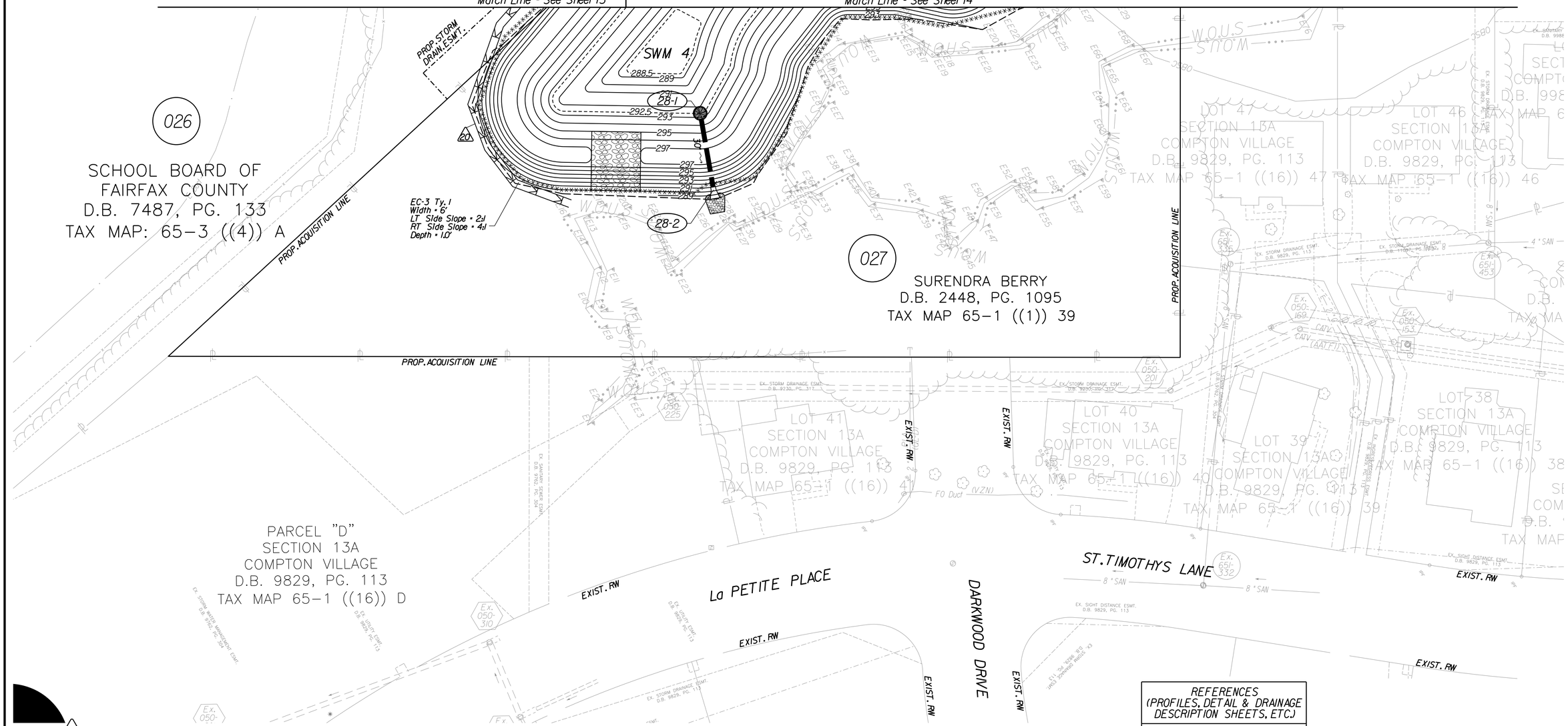
Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	28

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Key Legend XX

1	6" Curb, Std. CG-2 Req'd.	11	Curb Ramp, Std. CG-12 Req'd.	23	Guardrail, Std. GR-MGSI Req'd.	35	Remove Exist. Guardrail
2	4" Curb, Std. CG-3 Req'd.	12	Underdrain Endwall, Std. EW-12 Req'd.	24	Guardrail, Std. GR-MGSIA Req'd.	36	Remove Exist. Fence
3	6" Curb and Gutter, Std. CG-6 Req'd.	13	Shoulder Break Over Line	25	Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.	37	Remove Exist. Structure
4	4" Curb and Gutter, Std. CG-7 Req'd.	14	Groundwater Underdrain, Std. UD-1 Req'd.	26	Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.	38	Remove Or Abandon and Fill Exist. Pipe
5	Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.	15	Curb-Cut Opening, Drainage Flume	27	Guardrail, Std. GR-10, Type I Req'd.	39	Remove Exist. Pole
6	Not Used	16	Pavement Underdrain, Std. UD-4 Req'd.	28	Guardrail, Std. GR-10, Type II Req'd.	40	Adjust Exist. Structure
7	Conc. Raised Median, Std. MS-1A (6" Curb)	17	Pavement Underdrain, Mod. 6" UD-4 Req'd.	29	Guardrail, Std. GR-10, Type III Req'd.	41	Clean Out Exist. Structure
8	Grass Raised Median, Std. MS-2 (6" Curb)	18	Crossdrain, Std. CD-1 Req'd.	30	Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.	42	Full Depth Sawcut
9	Entrance Gutter, Std. CG-9D Req'd.	19	Crossdrain, Std. CD-2 Req'd.	31	Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.	43	Clean Out Exist. Pipe
10	Entrance, Std. CG-11 Req'd.	20	Standard Fence, Std. FE-CL Req'd.	32	Guardrail Transition, Std. GR-MGS4 Req'd.	44	10' Gutter Run Out
		21	Grass Raised Median, Std. MS-2 (4" Curb)	33	End CG-9D Entrance Type	45	Median Barrier, Std. MB-8A Req'd.
		22	Chain Link Fence, Std. FE-CL Req'd.	34	Handrail, Std. HR-1 Type III Req'd.	46	Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

X Curb Ramp See Sheet 2A(8)-(9)
CR XX Curb Return See Sheet 2A(7)
C Denotes Construction Limits In Cuts
F Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

E&S Phase 1B(1)/2	2F(6)
E&S Phase 3	2G(7)
Drainage Descriptions	33

SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	28

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

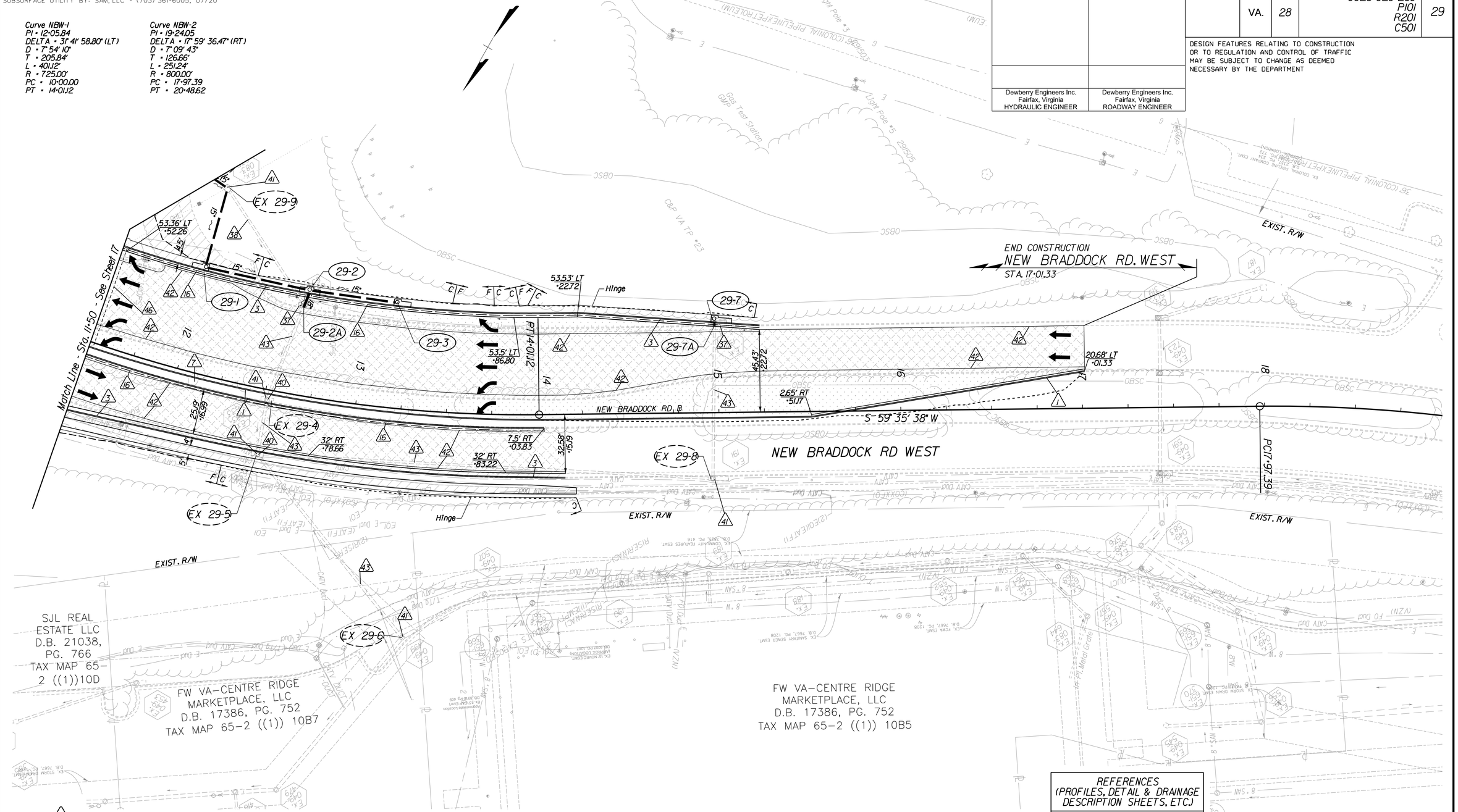
Curve NBW-1
PI = 12+05.84
DELTA = 31° 41' 58.80" (LT)
D = 7° 54' 10"
T = 205.84'
L = 401.12'
R = 725.00'
PC = 10+00.00
PT = 14+01.12

Curve NBW-2
PI = 19+24.05
DELTA = 17° 59' 36.47" (RT)
D = 7° 09' 43"
T = 126.66'
L = 251.24'
R = 800.00'
PC = 17+97.39
PT = 20+48.62

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
.	VA.	28	0028-029-269 P101 R201 C501	29

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Key Legend (XX)

1 6" Curb, Std. CG-2 Req'd.
2 4" Curb, Std. CG-3 Req'd.
3 6" Curb and Gutter, Std. CG-6 Req'd.
4 4" Curb and Gutter, Std. CG-7 Req'd.
5 Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.
6 Not Used
7 Conc. Raised Median, Std. MS-1A (6" Curb)
8 Grass Raised Median, Std. MS-2 (6" Curb)
9 Entrance Gutter, Std. CG-9D Req'd.
10 Entrance, Std. CG-11 Req'd.
11 Curb Ramp, Std. CG-12 Req'd.
12 Underdrain Endwall, Std. EW-12 Req'd.
13 Shoulder Break Over Line
14 Groundwater Underdrain, Std. UD-1 Req'd.
15 Curb-Cut Opening, Drainage Flume
16 Pavement Underdrain, Std. UD-4 Req'd.
17 Pavement Underdrain, Mod. 6" UD-4 Req'd.
18 Crossdrain, Std. CD-1 Req'd.
19 Crossdrain, Std. CD-2 Req'd.
20 Standard Fence, Std. FE-CL Req'd.
21 Grass Raised Median, Std. MS-2 (4" Curb)
22 Chain Link Fence, Std. FE-CL Req'd.
23 Guardrail, Std. GR-MGS1 Req'd.
24 Guardrail, Std. GR-MGS1A Req'd.
25 Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.
26 Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.
27 Guardrail, Std. GR-10, Type I Req'd.
28 Guardrail, Std. GR-10, Type II Req'd.
29 Guardrail, Std. GR-10, Type III Req'd.
30 Fixed Object Att., Std. GR-FOA-2 Ty.1 Req'd.
31 Fixed Object Att., Std. GR-FOA-2 Ty.2 Req'd.
32 Guardrail Transition, Std. GR-MGS4 Req'd.
33 End CG-9D Entrance Type
34 Handrail, Std. HR-1 Type III Req'd.
35 Remove Exist. Guardrail
36 Remove Exist. Fence
37 Remove Exist. Structure
38 Remove Or Abandon and Fill Exist. Pipe
39 Remove Exist. Pole
40 Adjust Exist. Structure
41 Clean Out Exist. Structure
42 Full Depth Sawcut
43 Clean Out Exist. Pipe
44 10' Gutter Run Out
45 Median Barrier, Std. MB-8A Req'd.
46 Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

(X) Curb Ramp — See Sheet 2A(8)-(9)
(CR XX) Curb Return — See Sheet 2A(7)
C Denotes Construction Limits In Cuts
F Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(4)
Typical Sections	2A(5)
E&S Phase 1B(1)/2	2F(8)
E&S Phase 3	2G(8)
New Braddock Rd. West Profiles	29A
Drainage Descriptions	33

SCALE	PROJECT	SHEET NO.
0 25' 50'	0028-029-269	29

Dewberry

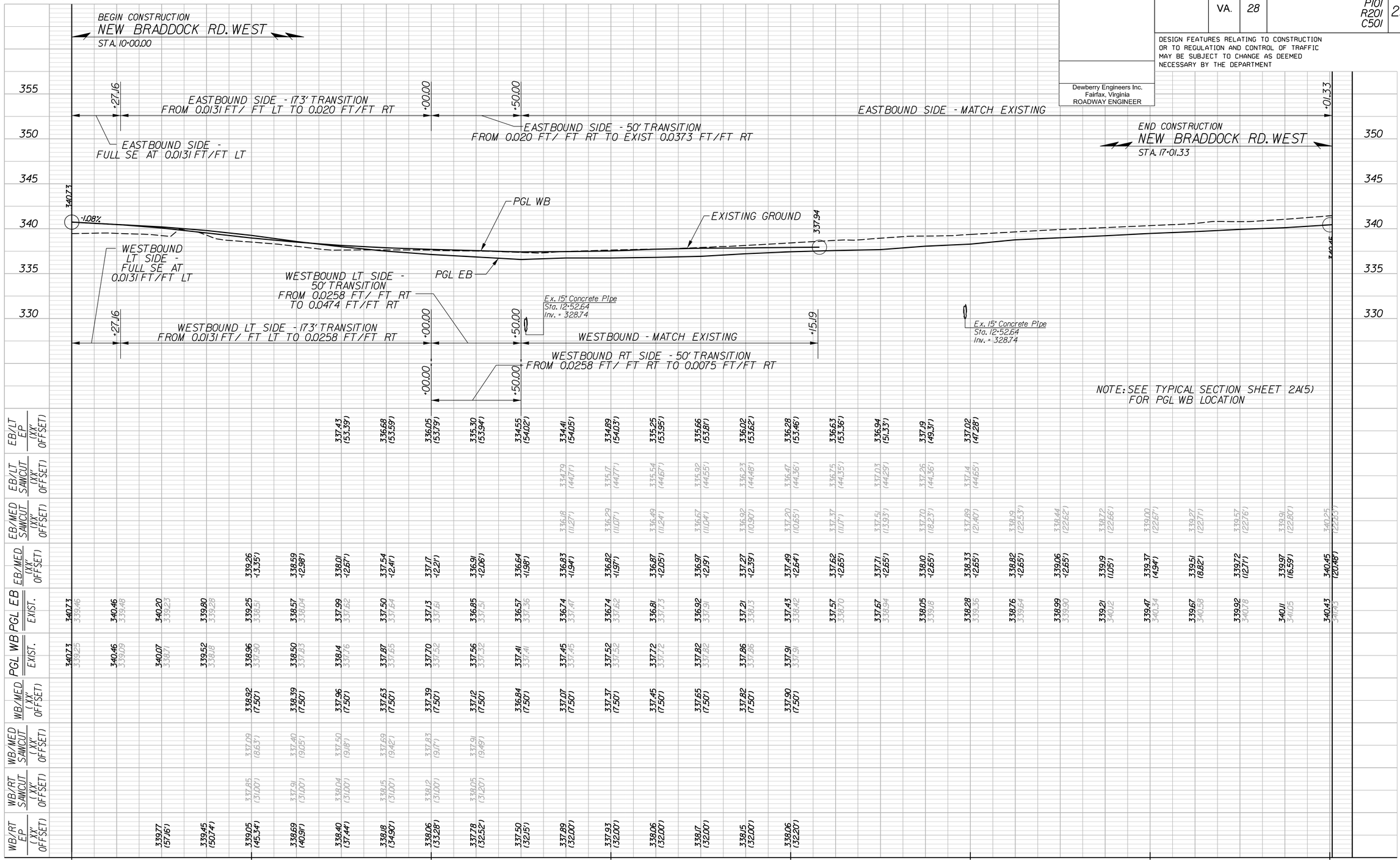
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

NEW BRADDOCK ROAD WEST

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	29A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



WB/RT EP (XX' OFFSET)	WB/RT SAWCUT (XX' OFFSET)	WB/MED SAWCUT (XX' OFFSET)	PGL WB WB/MED (XX' OFFSET)	PGL WB EXIST.	PGL EB EXIST.	EB/MED (XX' OFFSET)	EB/MED SAWCUT (XX' OFFSET)	EB/LT SAWCUT (XX' OFFSET)	EB/LT EP (XX' OFFSET)
			340.73	339.25	340.73				
					339.46				
			340.46	339.09	340.46				
					339.48				
339.77 (57.16')			340.07	338.71	340.20				
					339.23				
339.45 (50.74')			339.52	338.18	339.80				
					339.28				
339.05 (45.34')	337.85 (31.00')	337.09 (8.63')	338.92 (7.50')	337.90	339.25	339.26 (-13.35')			
					338.51				
338.69 (40.91')	337.91 (31.00')	337.40 (9.05')	338.39 (7.50')	337.33	338.57	338.59 (-12.98')			
					338.34				
338.40 (37.44')	338.04 (31.00')	337.50 (9.18')	337.96 (7.50')	337.76	337.99	338.01 (-12.67')	336.18 (11.27')	334.79 (44.71')	
					337.62				
338.18 (34.90')	338.15 (31.00')	337.69 (9.42')	337.63 (7.50')	337.65	337.50	337.54 (-12.41')	336.29 (11.07')	335.17 (44.77')	
					337.64				
338.06 (33.28')	338.12 (31.00')	337.83 (9.17')	337.39 (7.50')	337.52	337.13	337.17 (-12.21')	336.49 (11.24')	335.54 (44.67')	
					337.61				
337.78 (32.52')	338.05 (31.20')	337.91 (9.45')	337.12 (7.50')	337.32	336.85	336.91 (-12.06')	336.67 (11.04')	335.92 (44.55')	
					337.21				
337.50 (32.15')			336.84 (7.50')	337.41	336.57	336.64 (-11.98')	336.87 (11.04')	335.92 (44.55')	
					337.36				
337.89 (32.00')			337.07 (7.50')	337.45	336.74	336.83 (-11.94')	336.8 (11.27')	334.79 (44.71')	
					337.47				
337.93 (32.00')			337.37 (7.50')	337.52	336.74	336.82 (-11.97')	336.29 (11.07')	335.17 (44.77')	
					337.62				
338.06 (32.00')			337.45 (7.50')	337.72	336.81	336.87 (-12.05')	336.49 (11.24')	335.54 (44.67')	
					337.73				
338.17 (32.00')			337.65 (7.50')	337.82	336.92	336.97 (-12.19')	336.67 (11.04')	335.92 (44.55')	
					337.91				
338.15 (32.00')			337.82 (7.50')	337.86	337.21	337.27 (-12.39')	336.92 (10.90')	336.23 (44.48')	
					338.13				
338.06 (32.20')			337.90 (7.50')	337.91	337.43	337.49 (-12.64')	337.20 (10.65')	336.47 (44.36')	
					338.42				
					337.57	337.62 (-12.65')	337.37 (11.07')	336.75 (44.35')	
					338.70				
					337.67	337.71 (-12.65')	337.5 (13.53')	337.03 (44.29')	
					338.94				
					338.05	338.0 (-12.65')	337.10 (18.23')	337.26 (44.36')	
					339.18				
					338.28	338.33 (-12.65')	337.89 (21.40')	337.14 (44.65')	
					339.36				
					338.76	338.82 (-12.65')	338.13 (22.53')		
					339.64				
					338.99	339.06 (-12.65')	338.44 (22.62')		
					339.90				
					339.21	339.9 (1.05')	338.72 (22.66')		
					340.12				
					339.47	339.37 (4.94')	339.00 (22.67')		
					340.34				
					339.67	339.51 (8.82')	339.27 (22.71')		
					340.56				
					339.92	339.72 (12.71')	339.57 (22.76')		
					340.78				
					340.11	339.97 (16.59')	339.91 (22.80')		
					341.05				
					340.43	340.45 (20.48')	340.25 (22.85')		
					341.43				

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT 0028-029-269

SHEET NO. 29A

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

Curve NBE-2
PI = 14+64.73
DELTA = 21°08' 58.00" (LT)
D = 5°59' 56"
T = 178.29'
L = 352.52'
R = 955.00'
PC = 12+86.44
PT = 16+38.96

Match Line - See Sheet 18

Match Line - Sta. 11+50 - See Sheet 17

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	30

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

035
COLONIAL PIPE LINE COMPANY
D.B. 25206, PG. 688
TAX MAP 65-2 ((2)) 1B

044
SINGLETON GROVE HOMEOWNERS ASSOCIATION
D.B. 8083, PG. 1953
TAX MAP 65-2 ((1)) 15

045
PARCEL "A"
SECTION 8
SINGLETON'S GROVE
D.B. 7446, PG. 1116
TAX MAP 65-2 ((5)) A3

043
WINDING RIDGE HOMEOWNERS ASSOCIATION
D.B. 7277, PG. 444
TAX MAP 65-2 ((11)) A

034
COLONIAL PIPELINE COMPANY
D.B. 25206, PG. 688
TAX MAP 65-2 ((2)) 2A

WINDING RIDGE HOMEOWNER ASSOCIATION PHASE I
D.B. 7277, PG. 444
TAX MAP 65-2 ((11)) B

NEW BRADDOCK RD EAST

FEDERATION DRIVE

END CONSTRUCTION
NEW BRADDOCK RD. EAST
STA. 17+71.31

LOT 127 SECTION 8 SINGLETON'S GROVE D.B. 7446, PG. 1116 TAX MAP 65-2 ((5)) 127
LOT 124
LOT 123 SECTION 8 SINGLETON'S GROVE D.B. 7446, PG. 1116 TAX MAP 65-2 ((5)) 123
LOT 126 SECTION 8 SINGLETON'S GROVE D.B. 7446, PG. 1116 TAX MAP 65-2 ((5)) 126
LOT 122 SECTION 8 SINGLETON'S GROVE D.B. 7446, PG. 1116 TAX MAP 65-2 ((5)) 122
LOT 121
LOT 159 SECTION 1 PHASE 2 SINGLETON'S GROVE D.B. 6607, PG. 236 TAX MAP 65-2 ((5)) 159
LOT 160

Key Legend (XX)

1 6" Curb, Std. CG-2 Req'd.
2 4" Curb, Std. CG-3 Req'd.
3 6" Curb and Gutter, Std. CG-6 Req'd.
4 4" Curb and Gutter, Std. CG-7 Req'd.
5 Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.
6 Not Used
7 Conc. Raised Median, Std. MS-1A (6" Curb)
8 Grass Raised Median, Std. MS-2 (6" Curb)
9 Entrance Gutter, Std. CG-9D Req'd.
10 Entrance, Std. CG-11 Req'd.
11 Curb Ramp, Std. CG-12 Req'd.
12 Underdrain Endwall, Std. EW-12 Req'd.
13 Shoulder Break Over Line
14 Groundwater Underdrain, Std. UD-1 Req'd.
15 Curb-Cut Opening, Drainage Flume
16 Pavement Underdrain, Std. UD-4 Req'd.
17 Pavement Underdrain, Mod. 6" UD-4 Req'd.
18 Crossdrain, Std. CD-1 Req'd.
19 Crossdrain, Std. CD-2 Req'd.
20 Standard Fence, Std. FE-CL Req'd.
21 Grass Raised Median, Std. MS-2 (4" Curb)
22 Chain Link Fence, Std. FE-CL Req'd.
23 Guardrail, Std. GR-MGS1 Req'd.
24 Guardrail, Std. GR-MGS1A Req'd.
25 Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.
26 Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.
27 Guardrail, Std. GR-10, Type I Req'd.
28 Guardrail, Std. GR-10, Type II Req'd.
29 Guardrail, Std. GR-10, Type III Req'd.
30 Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.
31 Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.
32 Guardrail Transition, Std. GR-MGS4 Req'd.
33 End CG-9D Entrance Type
34 Handrail, Std. HR-1 Type III Req'd.
35 Remove Exist. Guardrail
36 Remove Exist. Fence
37 Remove Exist. Structure
38 Remove Or Abandon and Fill Exist. Pipe
39 Remove Exist. Pole
40 Adjust Exist. Structure
41 Clean Out Exist. Structure
42 Full Depth Sawcut
43 Clean Out Exist. Pipe
44 10' Gutter Run Out
45 Median Barrier, Std. MB-8A Req'd.
46 Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

(X) Curb Ramp See Sheet 2A(8)-(9)
(CR XX) Curb Return See Sheet 2A(7)
C ____ Denotes Construction Limits In Cuts
F ____ Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Construction Alignment	1G(4)
Typical Sections	2A(4)
E&S Phase 1B(1)/2	2F(8), 2F(11)
E&S Phase 3	2G(8), 2G(11)
New Braddock Rd. East Profile	30A-30B
Drainage Descriptions	33

SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	30

Dewberry

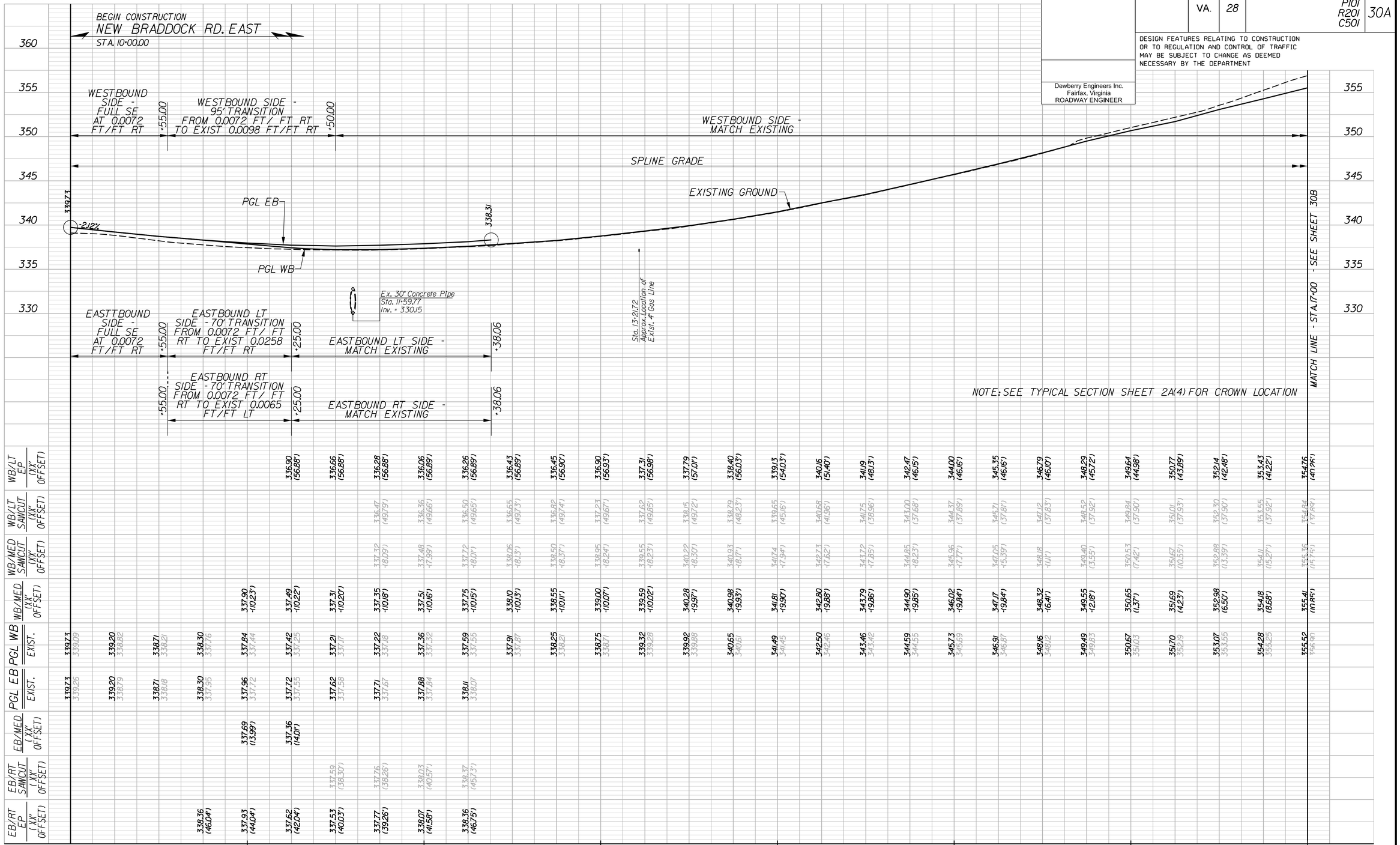
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

NEW BRADDOCK RD. EAST

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	30A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



EB/RT EP (XX' OFFSET)	EB/RT SAMCUT (XX' OFFSET)	EB/MED (XX' OFFSET)	PGL EB EXIST.	PGL WB EXIST.	WB/MED (XX' OFFSET)	WB/MED SAMCUT (XX' OFFSET)	WB/LT SAMCUT (XX' OFFSET)	WB/LT EP (XX' OFFSET)
			339.73	339.09				
			339.26					
			339.20	339.20				
			338.79	338.62				
			338.71	338.71				
			338.18	338.21				
338.36 (46.04')			338.30	338.30				
			337.95	337.76				
337.93 (44.04')		337.69 (13.99')	337.96	337.84	337.90 (-10.23')			
			337.72	337.44				
337.62 (42.04')		337.36 (14.01')	337.72	337.42	337.49 (-10.22')			336.90 (56.88')
			337.55	337.25				
337.53 (40.03')	337.59 (38.30')		337.62	337.21	337.31 (-10.20')			336.66 (56.88')
			337.58	337.17				
337.77 (39.26')	337.76 (38.26')		337.71	337.22	337.35 (-10.18')	337.32 (-8.09')	336.47 (49.79')	336.28 (56.88')
			337.67	337.18				
338.07 (41.58')	338.03 (40.57')		337.88	337.36	337.51 (-10.16')	337.48 (-7.99')	336.36 (49.66')	336.06 (56.89')
			337.84	337.32				
338.36 (46.75')	338.37 (45.73')		338.11	337.59	337.75 (-10.15')	337.72 (-8.01')	336.50 (49.65')	336.26 (56.89')
			338.07	337.55				
				337.91	338.10 (-10.13')	338.06 (-8.13')	336.65 (49.73')	336.43 (56.89')
				337.87				
				338.25	338.55 (-10.11')	338.50 (-8.37')	336.82 (49.74')	336.45 (56.90')
				338.21				
				338.75	339.00 (-10.07')	338.95 (-8.24')	337.23 (49.67')	336.90 (56.93')
				338.71				
				339.32	339.59 (-10.02')	339.55 (-8.23')	337.62 (49.85')	337.31 (56.98')
				339.28				
				339.92	340.28 (-9.97')	340.22 (-8.30')	338.15 (49.72')	337.79 (57.01')
				339.88				
				340.65	340.98 (-9.93')	340.93 (-8.17')	338.79 (48.23')	338.40 (56.03')
				340.61				
				341.49	341.81 (-9.90')	341.74 (-7.94')	339.65 (45.16')	339.13 (54.03')
				341.45				
				342.50	342.80 (-9.88')	342.73 (-7.62')	340.68 (41.36')	340.16 (51.40')
				342.46				
				343.46	343.79 (-9.86')	343.72 (-7.45')	341.75 (38.98')	341.19 (48.13')
				343.42				
				344.59	344.90 (-9.85')	344.85 (-8.23')	343.00 (37.68')	342.47 (46.15')
				344.55				
				345.73	346.02 (-9.84')	345.96 (-7.77')	344.37 (37.89')	344.00 (46.16')
				345.69				
				346.91	347.17 (-9.84')	347.05 (-5.59')	345.71 (37.81')	345.35 (46.16')
				346.87				
				348.16	348.32 (-6.41')	348.18 (-1.11')	347.12 (37.83')	346.79 (46.10')
				348.12				
				349.49	349.55 (-12.18')	349.40 (3.55')	348.52 (37.92')	348.29 (45.72')
				349.33				
				350.67	350.65 (1.37')	350.53 (7.42')	349.84 (37.90')	349.64 (44.98')
				350.43				
				351.70	351.69 (4.23')	351.67 (10.55')	351.01 (37.93')	350.77 (43.89')
				352.19				
				353.07	352.98 (6.50')	352.88 (13.39')	352.30 (37.90')	352.14 (42.48')
				353.55				
				354.28	354.18 (8.68')	354.11 (15.27')	353.56 (37.92')	353.43 (41.22')
				355.25				
				355.52	355.41 (10.85')	355.36 (16.76')	354.84 (37.89')	354.76 (40.26')
				356.90				

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT 0028-029-269

SHEET NO. 30A

2/11/2021
11:44:41 AM

d108720-30B.dgn
Plotted By: cjennings

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

NEW BRADDOCK RD. EAST

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	30B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER

PGL EB EXIST.	PGL WB EXIST.	WB/MED (XX' OFFSET)	WB/MED SAWCUT (XX' OFFSET)	WB/LT SAWCUT (XX' OFFSET)	WB/LT EP (XX' OFFSET)
	355.52 356.90	355.41 (10.85')	355.36 (157.5')	354.84 (37.89')	354.76 (40.26')
	356.77 358.26	356.62 (13.03')	356.59 (157.3')	356.07 (37.89')	356.01 (39.60')
	358.07 359.52			357.27 (37.94')	357.22 (39.27')

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT 0028-029-269

SHEET NO. 30B

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	28	0028-029-269 P101 R201 C501	31

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc. Fairfax, Virginia HYDRAULIC ENGINEER	Dewberry Engineers Inc. Fairfax, Virginia ROADWAY ENGINEER

Curve MRW-1
PI • 14+68.46
DELTA • 7° 03' 34.69" (LT)
D • 2° 26' 10"
T • 145.08'
L • 289.80'
R • 2,351.98'
PC • 13+23.38
PRC • 16+13.17

Curve MRW-2
PI • 18+58.01
DELTA • 22° 54' 53.42" (RT)
D • 4° 44' 35"
T • 244.84'
L • 483.13'
R • 1,208.00'
PRC • 16+13.17
PT • 20+96.30

INSET A

CENTRE MED OWNER LLC
D.B. 26020, PG. 227
TAX MAP 65-2 ((1)) 14A
036

END CONSTRUCTION
MACHEN RD. EAST
STA. 12+43.11

PROP.GRAD.AGMT.& TEMP.CONST.ESMT
Existing Curb to remain
MACHEN RD EAST
S 60° 10' 27" E
MACHEN RD ℄
POT 12+92.82
39.67' 24.20
R=17'
Type B
S 60° 48' 29" E
58.74' LT 40.89
Hinge
Retaining Wall 03
POT 10+73.31
PROP.GRAD.AGMT.& TEMP.CONST.ESMT
PROP.GRAD.AGMT.& TEMP.CONST.ESMT
Match Line - Sta. 11+50 - See Sheet 19

PARCEL "B"
REDWOOD SQUARE CONDOMINIUM
D.B. 16195, PG. 805
TAX MAP 65-2 ((19))

EPT NINETEEN, INC
D.B. 20847, PG. 1832
TAX MAP 65-2 ((1)) 28
033

EX 31-2
EX 31-3
PC 13+23.38
EXIST. R/W
PROP. R/W
EXIST. R/W
PROP.GRAD.AGMT.& TEMP.CONST.ESMT
Hinge
31-7
31-4
PROP. R/W
PRC 16+13.17
31.56' LT 19.38
EXIST. R/W
EX 31-5
EXIST. R/W
27.36' LT 06.89
36.37' 45.23
36.37' 88.76
25.38' 06.65
N 60° 10' 27" W
MACHEN RD ℄
EX 31-6
EX 31-8
END CONSTRUCTION
MACHEN RD. WEST
STA. 16+06.89
Match Line - Sta. 11+75 - See Sheet 19
41.77' 05.33
EX 31-1
MACHEN RD WEST
EXIST. R/W
PROP. R/W
51.83' RT 05.33
PROP.GRAD.AGMT.& TEMP.CONST.ESMT
EXIST. R/W

037
PARCEL "A"
LAND BAY 1B
SECTION 1
CENTRE RIDGE
D.B. 8891, PG. 103
TAX MAP 65-2 ((1)) A

LAND BAY 1B
SECTION 1
CENTRE RIDGE
D.B. 8891, PG. 103

PARCEL "A"
LAND BAY 1B
SECTION 2
CENTRE RIDGE
D.B. 8718, PG. 551
TAX MAP 54-4 ((17))(4) A

Key Legend (XX)

1 6" Curb, Std. CG-2 Req'd.
2 4" Curb, Std. CG-3 Req'd.
3 6" Curb and Gutter, Std. CG-6 Req'd.
4 4" Curb and Gutter, Std. CG-7 Req'd.
5 Conc. Raised Median, Std. MS-1 with 4" Curb Req'd.
6 Not Used
7 Conc. Raised Median, Std. MS-1A (6" Curb)
8 Grass Raised Median, Std. MS-2 (6" Curb)
9 Entrance Gutter, Std. CG-9D Req'd.
10 Entrance, Std. CG-11 Req'd.
11 Curb Ramp, Std. CG-12 Req'd.
12 Underdrain Endwall, Std. EW-12 Req'd.
13 Shoulder Break Over Line
14 Groundwater Underdrain, Std. UD-1 Req'd.
15 Curb-Cut Opening, Drainage Flume
16 Pavement Underdrain, Std. UD-4 Req'd.
17 Pavement Underdrain, Mod. 6" UD-4 Req'd.
18 Crossdrain, Std. CD-1 Req'd.
19 Crossdrain, Std. CD-2 Req'd.
20 Standard Fence, Std. FE-CL Req'd.
21 Grass Raised Median, Std. MS-2 (4" Curb)
22 Chain Link Fence, Std. FE-CL Req'd.
23 Guardrail, Std. GR-MGS1 Req'd.
24 Guardrail, Std. GR-MGS1A Req'd.
25 Guardrail Tangent End Terminal, Std. GR-MGS2 Req'd.
26 Guardrail Trailing End Achorage, Std. GR-MGS3 Req'd.
27 Guardrail, Std. GR-10, Type I Req'd.
28 Guardrail, Std. GR-10, Type II Req'd.
29 Guardrail, Std. GR-10, Type III Req'd.
30 Fixed Object Att., Std. GR-FOA-2 Ty. I Req'd.
31 Fixed Object Att., Std. GR-FOA-2 Ty. 2 Req'd.
32 Guardrail Transition, Std. GR-MGS4 Req'd.
33 End CG-9D Entrance Type
34 Handrail, Std. HR-1 Type III Req'd.
35 Remove Exist. Guardrail
36 Remove Exist. Fence
37 Remove Exist. Structure
38 Remove Or Abandon and Fill Exist. Pipe
39 Remove Exist. Pole
40 Adjust Exist. Structure
41 Clean Out Exist. Structure
42 Full Depth Sawcut
43 Clean Out Exist. Pipe
44 10' Gutter Run Out
45 Median Barrier, Std. MB-8A Req'd.
46 Pavement Demarcation Line

Denotes Full Depth Pavement
Denotes SUP/Driveway /Private Entrance Pavement
Denotes Pavement Demolition
Denotes Milling and Overlay / Variable Depth Overlay

(X) Curb Ramp See Sheet 2A(8)-(9)
(CR XX) Curb Return See Sheet 2A(7)
C Denotes Construction Limits In Cuts
F Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

(A) End Retaining Wall 03
Sta. 10+73.31 • Machen East ℄
Sta. 11+90.00
N 6,987,040.0333
E 11,786,645.8084
(See Sheet 41 for Retaining Wall Profile and Details)

SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	31

2/11/2021
11:47:37 AM

d108720-31Adgn
Plotted By: cjennings

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

MACHEN ROAD WEST

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	31A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER

BEGIN CONSTRUCTION
MACHEN ROAD WEST
STA. 10+00.00

END CONSTRUCTION
MACHEN ROAD WEST
STA. 16+06.89

SPLINE GRADE +05.45

SPLINE GRADE +45.23 to +06.89

STA = 10+24.00
EL = 346.12

STA = 10+59.44
EL = 344.40

346.60
-2.00%
-6.00%
-2.00%
-5.02%
PGL
STA = 10+49.44
EL = 344.60

338.20

329.54

EXISTING GROUND

WB SIDE- FULL SE
AT 0.0103 FT/FT LT

+00.00 +24.00 +62.98 WB SIDE - MATCH EXISTING +05.45

WB SIDE - 40' TRANSITION FROM 0.0103 FT/FT LT TO EXIST 0.0234 FT/FT LT

Ex. 15" Concrete Pipe
Sta. 12+52.79
Inv. = 327.22

EB SIDE- FULL SE
AT 0.0103 FT/FT LT

+00.00 +24.00 +86.20

EB RT SIDE - 62' TRANSITION FROM 0.0103 FT/FT LT TO EXIST 0.0099 FT/FT RT

+24.00 +86.20

EB LT SIDE - 62' TRANSITION FROM 0.0103 FT/FT LT TO EXIST 0.0289 FT/FT RT

+45.23 EB SIDE - MATCH EXISTING +06.89

Ex. 15" Concrete Pipe
Sta. 15+58.25
Inv. = 307.94

	10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00
EB LT / EP (XX' OFFSET)					328.37 (36.37')	326.58 (36.37')	324.44 (36.37')	322.33 (36.37')	320.34 (36.37')	318.32 (36.37')	316.33 (35.57')	314.57 (33.62')	312.78 (31.40')	311.18 (28.91')	309.75 (26.15')
EB LT / SAWCUT (XX' OFFSET)					328.40 (35.25')	326.65 (33.03')	324.69 (28.80')	322.71 (25.18')	320.74 (23.92')	318.73 (23.96')	316.77 (24.04')	314.84 (24.13')	312.98 (24.11')	311.29 (24.19')	309.76 (24.33')
EB/MED (XX' OFFSET)		343.70 (12.86)	342.84 (12.85)												
PGL EXIST.	346.60 345.01	346.06 344.15	344.59 344.03	343.62 343.38	343.63 342.63	341.81 341.61	340.81 340.81	339.69 339.69	338.47 338.47	337.16	335.75	334.29	332.75	330.96	329.21 329.21	327.42 327.42	325.48 325.48	323.46 323.46	321.41 321.41	319.40 319.40	317.46 317.46	315.46 315.15	313.46 313.46	311.52 311.52	309.97 309.97
WB RT / SAWCUT (XX' OFFSET)					341.80 (40.86')	341.05 (40.82')	340.07 (40.88')	339.02 (40.86')	337.90 (40.83')						
WB RT / EP (XX' OFFSET)			341.47 (48.11')	340.88 (46.81')	339.90 (45.11')	338.90 (43.61')	337.85 (42.12')								

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT 0028-029-269

SHEET NO. 31A

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	32(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER

ENTRANCE A

BEGIN CONSTRUCTION ENTRANCE A STA. 10+00.00

STA • 10+32.60
EL • 194.11
K • 1.5
L • 24.81

STA 10+10.00 EL 194.28
STA 10+20.00 EL 194.48
193.96
190.71
-2.00%
-3.00%
-6.17%
-19.54%
PGL
EXISTING GROUND
STA 10+02.00 EL 193.79
Ex. 15" Concrete Pipe Sta. 10+26.66 Inv. = 190.16

END CONSTRUCTION ENTRANCE A STA. 10+50.00

LOCATED ON SHEET 4 AT SB ROUTE 28 STA. 107+26.33

ENTRANCE B

BEGIN CONSTRUCTION ENTRANCE B STA. 10+00.00

STA • 10+25.76
EL • 201.34
K • 1.61
L • 15.00

STA 10+10.00 EL 201.03
200.71
198.96
-2.00%
-6.17%
-7.32%
-5.05%
PGL
STA 10+02.00 EL 200.54
STA • 10+43.45
EL • 200.05
K • 9
L • 20.00
EXISTING GROUND

END CONSTRUCTION ENTRANCE B STA. 10+61.36

LOCATED ON SHEET 4 AT SB ROUTE 28 STA. 109+26.39

ENTRANCE C

BEGIN CONSTRUCTION ENTRANCE C STA. 10+00.00

STA • 10+31.91
EL • 207.86
K • 1.5
L • 27.42

STA 10+10.00 EL 207.43
207.10
-2.00%
-6.17%
PGL
-16.28%
STA 10+02.00 EL 206.93
20126
-12.93%
EXISTING GROUND
STA • 10+62.86
EL • 202.82
K • 4
L • 15.00

END CONSTRUCTION ENTRANCE C STA. 10+75.00

LOCATED ON SHEET 4 AT SB ROUTE 28 STA. 111+34.89

ENTRANCE D

BEGIN CONSTRUCTION ENTRANCE D STA. 10+00.00

STA • 10+28.85
EL • 210.23
K • 1.54
L • 20.04

STA 10+10.00 EL 209.85
209.53
207.38
-2.00%
-6.17%
-11.04%
PGL
-5.41%
EXISTING GROUND
STA 10+02.00 EL 209.36
Sta. 10+23.17 Approx. Location of Exist. 6" Water Line
STA • 10+49.58
EL • 207.94
K • 3.5
L • 19.66

END CONSTRUCTION ENTRANCE D STA. 10+60.00

LOCATED ON SHEET 4 AT SB ROUTE 28 STA. 113+33.95

ENTRANCE E

BEGIN CONSTRUCTION ENTRANCE E STA. 10+00.00

STA • 10+30.00
EL • 210.86
K • 1.53
L • 15.10

STA 10+10.00 EL 210.36
STA 10+20.00 EL 211.16
210.64
207.74
-2.00%
-6.17%
-3.00%
-12.98%
PGL
-6.76%
EXISTING GROUND
STA 10+02.00 EL 210.41
Sta. 10+24.85 Approx. Location of Exist. 6" Water Line
STA • 10+47.91
EL • 208.56
K • 3
L • 18.35

END CONSTRUCTION ENTRANCE E STA. 10+60.00

LOCATED ON SHEET 5 AT SB ROUTE 28 STA. 114+48.79

PGL / EXIST.
193.96 192.56
194.26 192.68
190.71 190.71 187.72
200.71 199.70
201.9 199.62
199.72 199.21 198.34
207.10 205.57
207.57 205.10
204.92 203.13
201.26 201.26 197.86
209.53 208.92
210.03 208.46
208.04 207.57 206.51 201.22
210.64 209.56
210.99 209.08
208.50 207.93

10+00 11+00

ENTRANCE F

BEGIN CONSTRUCTION ENTRANCE F STA. 10+00.00

STA • 10+26.49
EL • 213.15
K • 1.63
L • 12.26

STA 10+10.00 EL 213.14
STA 10+20.00 EL 213.34
212.82
208.47
-2.00%
-6.16%
-3.00%
-10.55%
PGL
EXISTING GROUND
STA 10+02.00 EL 212.65
STA • 10+72.13
EL • 208.33
K • 4.5
L • 34.00
Sta. 10+28.17 Approx. Location of Exist. 6" Water Line

END CONSTRUCTION ENTRANCE F STA. 10+90.00

LOCATED ON SHEET 5 AT SB ROUTE 28 STA. 116+63.85

ENTRANCE G

BEGIN CONSTRUCTION ENTRANCE G STA. 10+00.00

STA • 10+30.00
EL • 214.97
K • 4
L • 16.00

STA 10+10.00 EL 215.07
STA 10+20.00 EL 215.27
214.75
213.32
-2.00%
-6.16%
-3.00%
-6.63%
PGL
EXISTING GROUND
STA 10+02.00 EL 214.58
STA • 10+50.57
EL • 213.61
K • 5
L • 25.00
Sta. 10+24.41 Approx. Location of Exist. 6" Water Line

END CONSTRUCTION ENTRANCE G STA. 10+65.00

LOCATED ON SHEET 5 AT SB ROUTE 28 STA. 118+01.58

ENTRANCE H

BEGIN CONSTRUCTION ENTRANCE H STA. 10+00.00

END CONSTRUCTION ENTRANCE H STA. 10+55.00

STA • 10+40.17
EL • 195.08
K • 3
L • 15.51

STA 10+12.00 EL 194.40
STA 10+22.00 EL 194.72
194.64
196.06
-2.00%
-8.50%
-6.16%
-6.59%
EXISTING GROUND
STA 10+14.00 EL 194.23
PGL
Prop. 24" Concrete Pipe Sta. 10+45.87 Inv. = 191.86
Prop. 15" Concrete Pipe Sta. 10+18.98 Inv. = 190.42

LOCATED ON SHEET 4 AT NB ROUTE 28 STA. 107+59.50

ENTRANCE I

BEGIN CONSTRUCTION ENTRANCE I STA. 10+00.00

END CONSTRUCTION ENTRANCE I STA. 10+80.00

STA • 10+53.90
EL • 204.81
K • 3
L • 24.50

STA 10+24.00 EL 204.09
STA 10+34.00 EL 204.41
204.57
207.43
-2.01%
-8.50%
-6.16%
-2.00%
-10.00%
EXISTING GROUND
PGL
STA 10+26.00 EL 203.92
Prop. 15" Concrete Pipe Sta. 10+27.30 Inv. = 200.25
Prop. 18" Concrete Pipe Sta. 10+55.17 Inv. = 202.36

LOCATED ON SHEET 4 AT NB ROUTE 28 STA. 110+56.31

PGL / EXIST.
212.82 212.17
213.13 212.27
210.67 208.54
208.47 207.70 207.53 206.67
214.75 214.14
215.11 213.67
213.78 213.55 213.27
194.64 194.10
194.78 194.09
195.73 195.84 197.45 199.86 202.50 204.80
204.57 204.06
204.00 203.92
204.85 205.07 206.92 206.28 209.52 211.14 212.44

10+00 11+00

ENTRANCE F ENTRANCE G ENTRANCE H ENTRANCE I

HORIZ. 0 25' 50'
VERT. 0 5' 10'

PROJECT	SHEET NO.
0028-029-269	32(1)

Dewberry

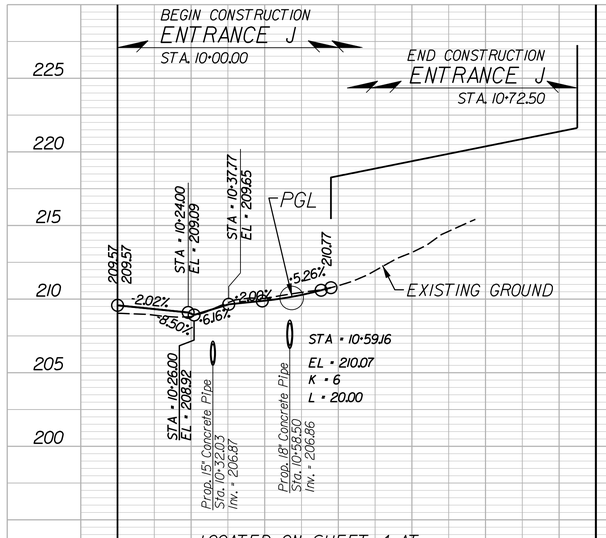
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	32 (2)

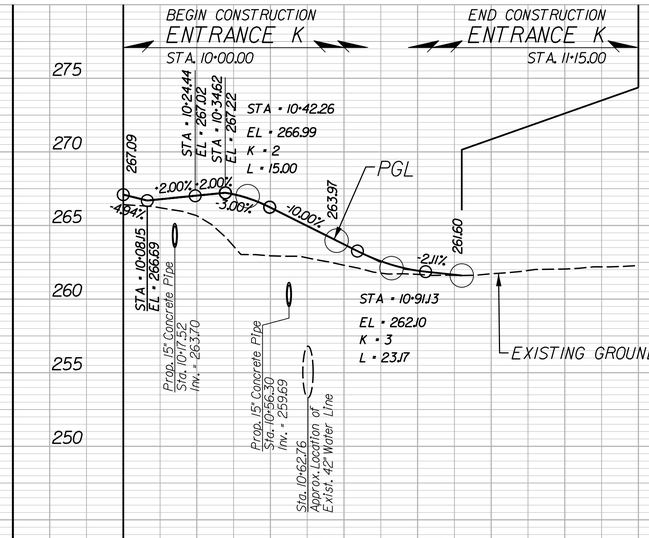
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER

ENTRANCE J



ENTRANCE K



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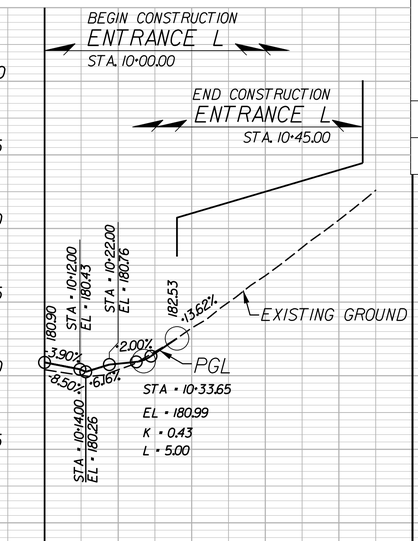
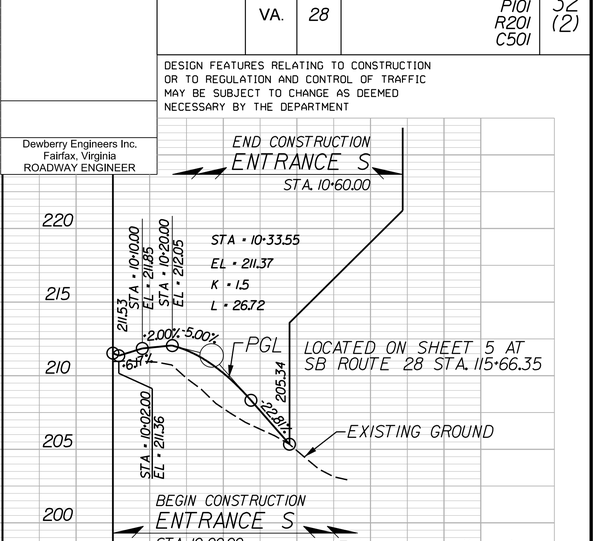
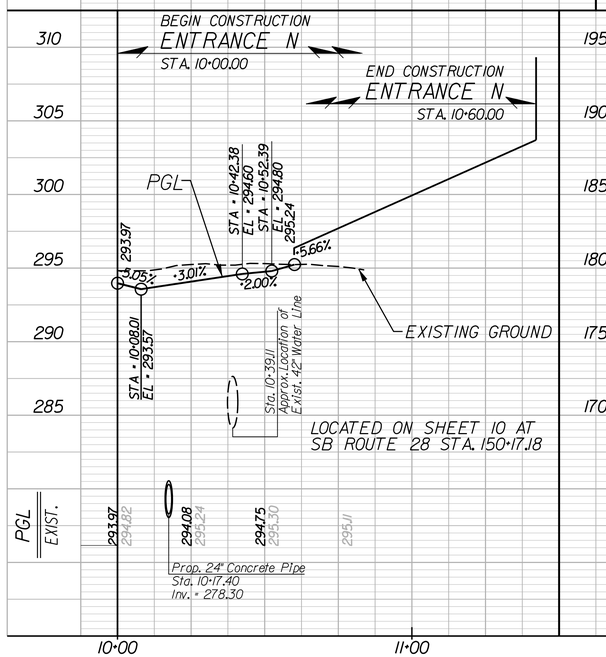


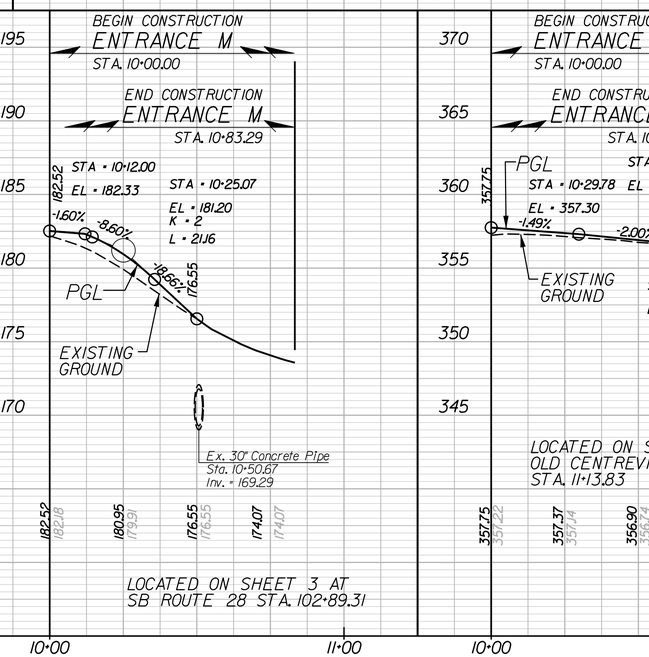
ENTRANCE S



ENTRANCE N

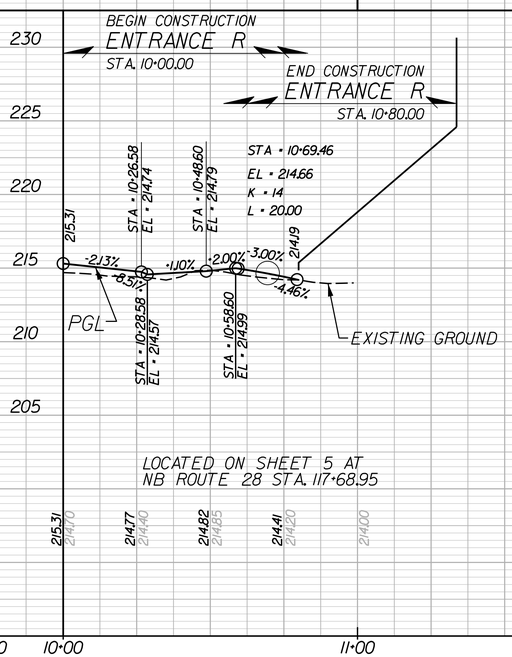


ENTRANCE M



ENTRANCE P

ENTRANCE R



HORIZ.	0	25'	50'
VERT.	0	5'	10'

PROJECT	SHEET NO.
0028-029-269	32(2)

Dewberry

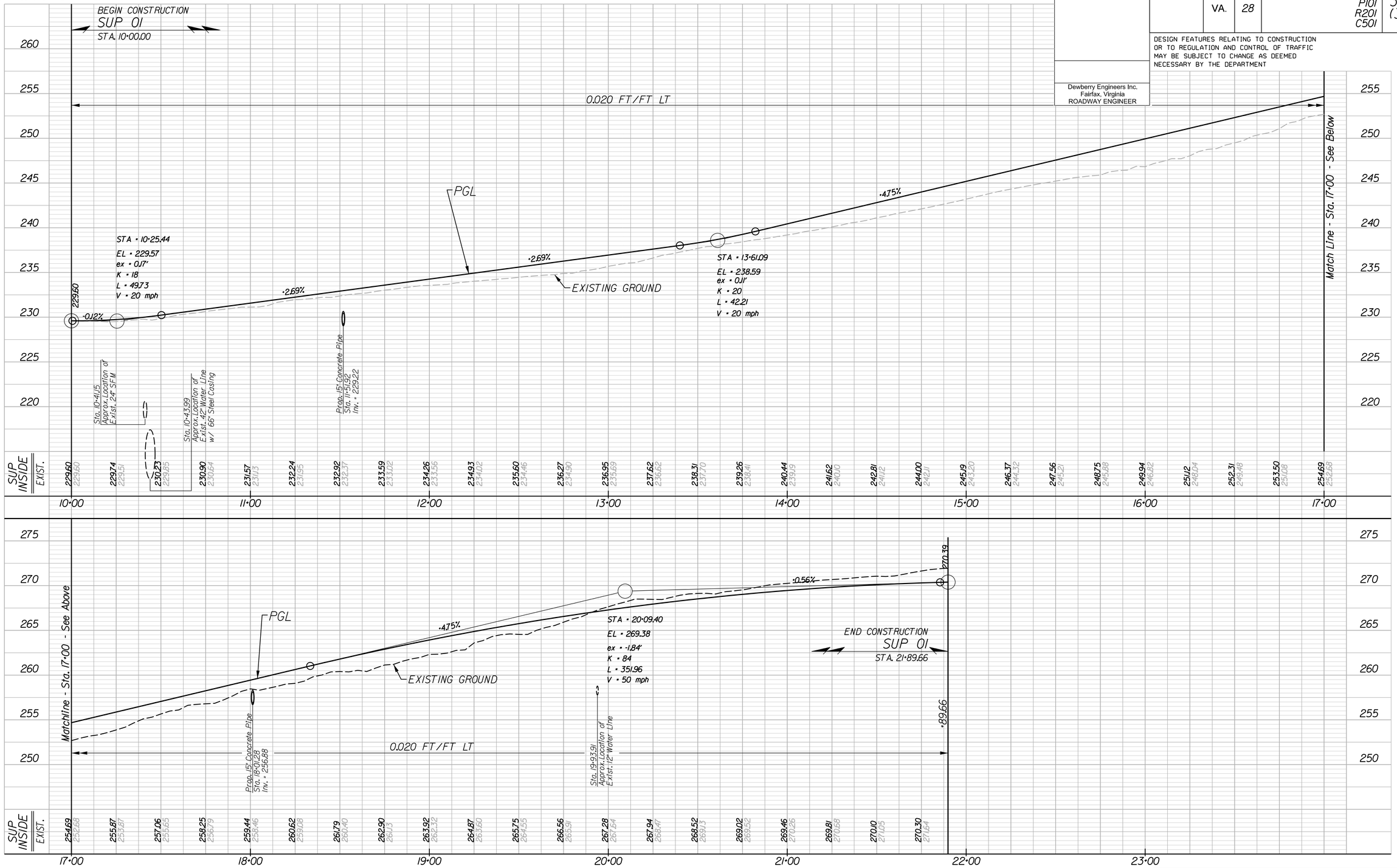
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SUP 01

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	32 (3)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



HORIZ. 0 25' 50' / VERT. 0 5' 10'	PROJECT	SHEET NO.
	0028-029-269	32(3)

2/11/2021
12:01:29 PM

d108720-32(4).dgn
Plotted By: cjennings

Dewberry

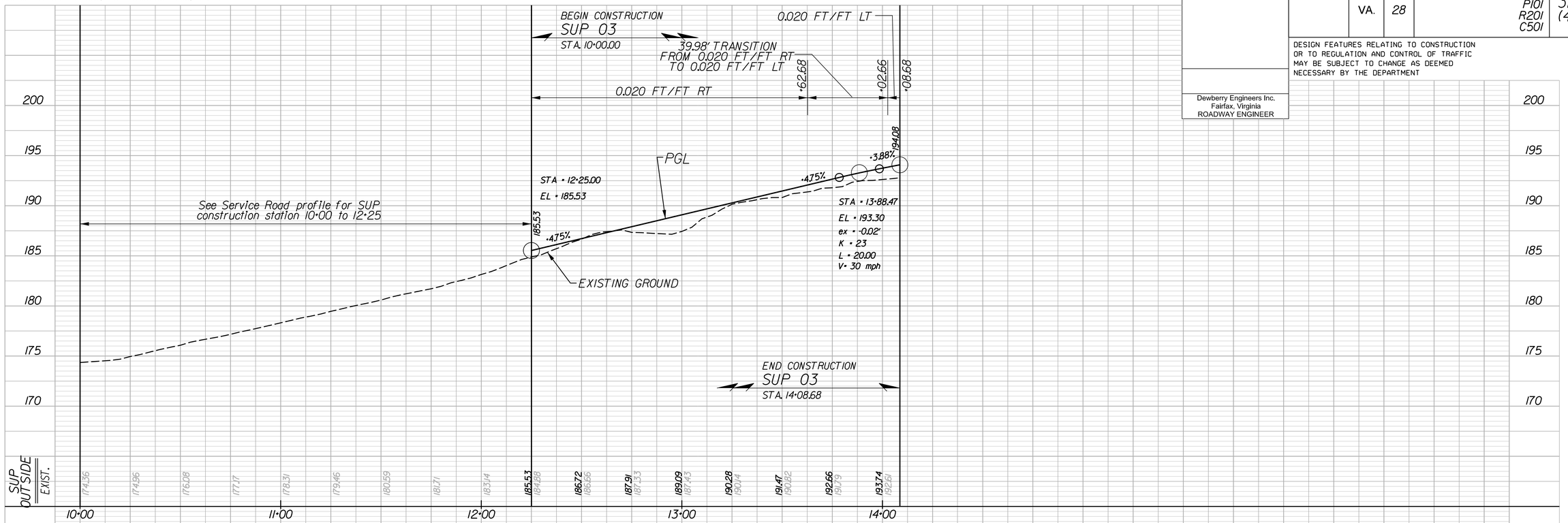
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

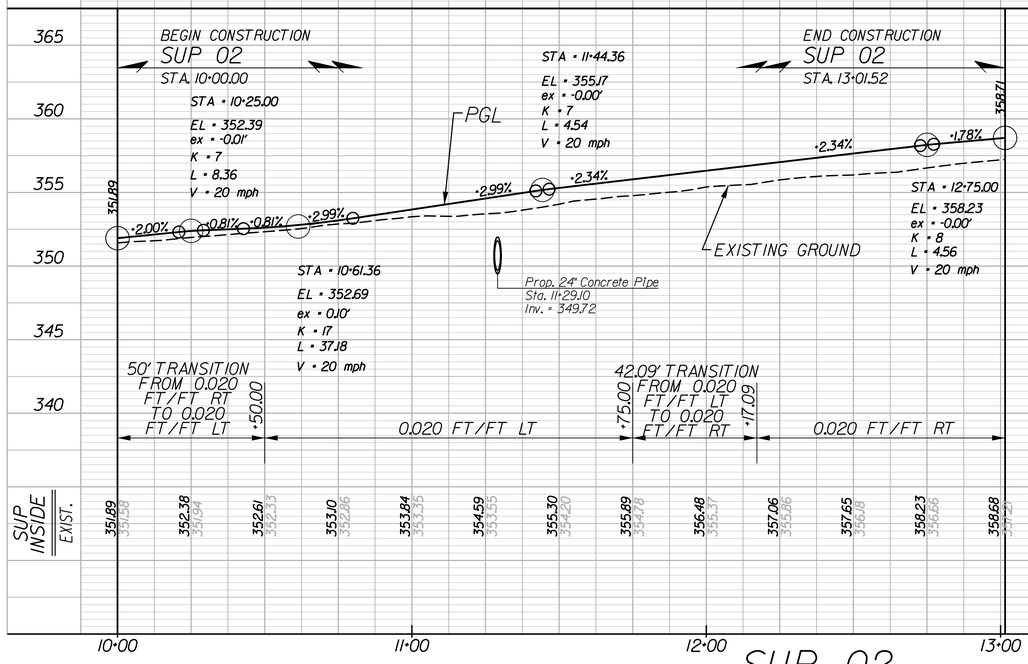
SUP 03

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	32 (4)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER





SUP 02

HORIZ.	PROJECT	SHEET NO.
0 25' 50'	0028-029-269	32(4)
VERT. 0 5' 10'		

Dewberry

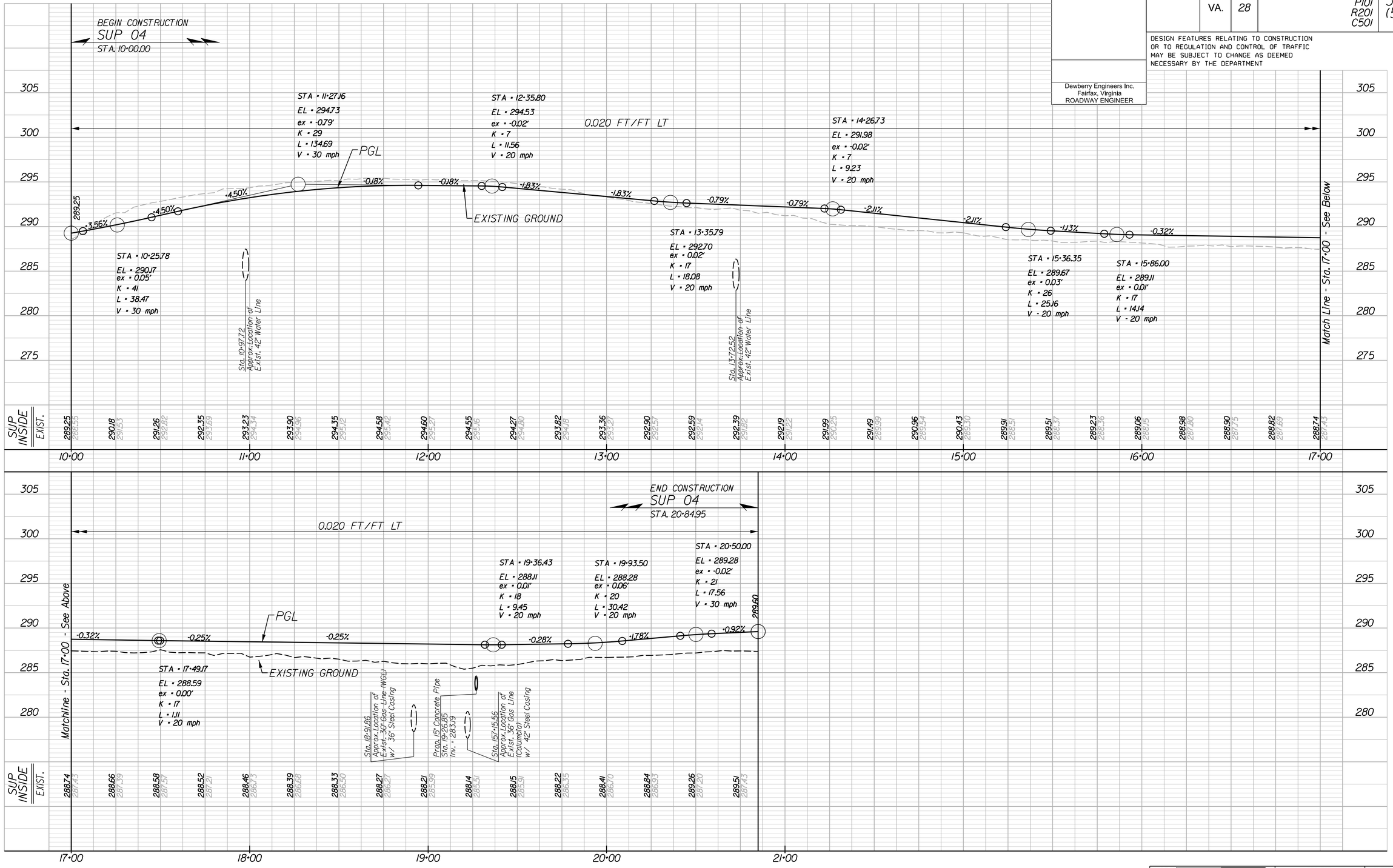
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SUP 04

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	32 (5)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



HORIZ.	0	25'	50'
VERT.	0	5'	10'

PROJECT	SHEET NO.
0028-029-269	32(5)

2/11/2021
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d108720-32(6).dgn
Plotted By: cjennings

Dewberry

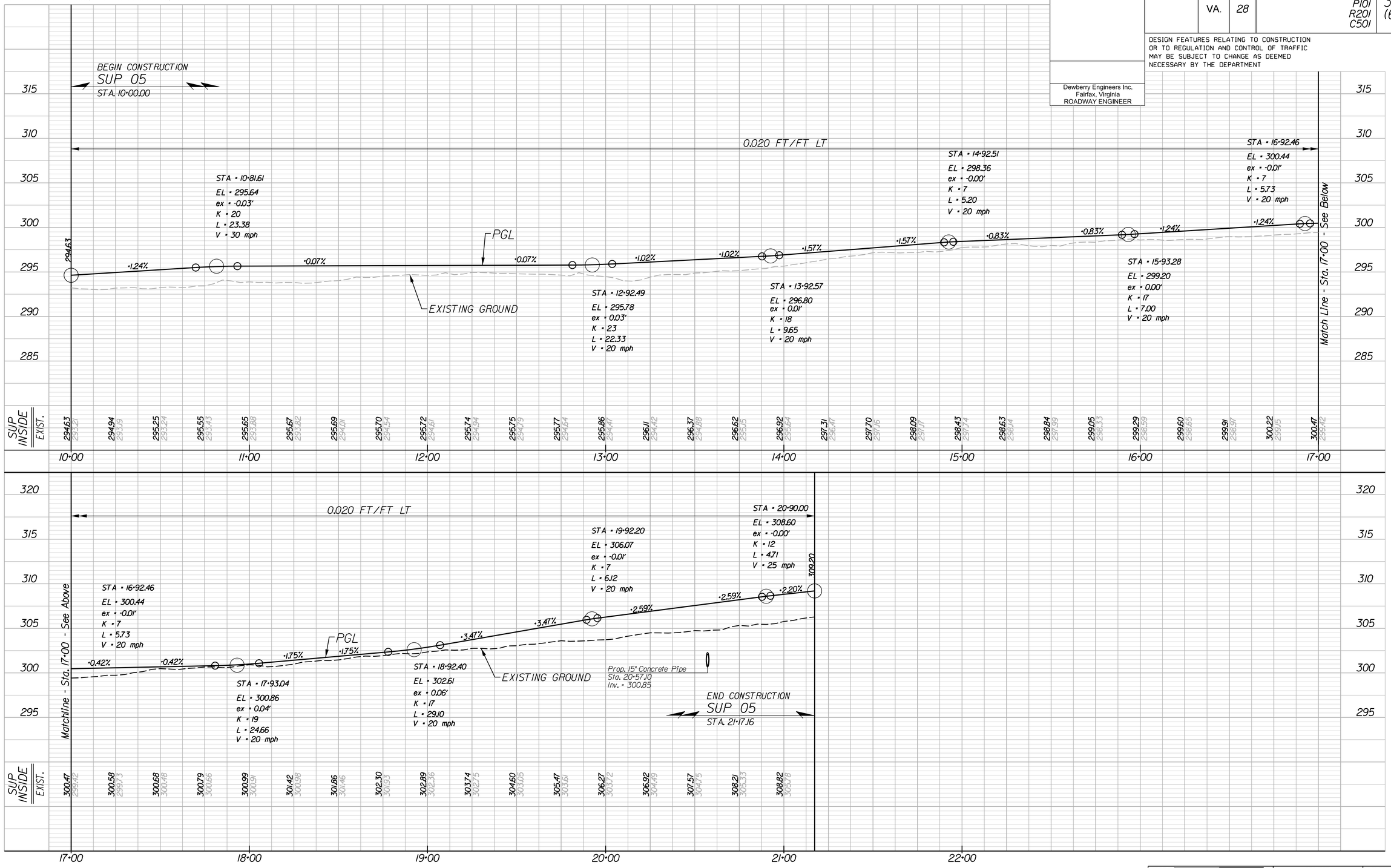
PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SUP 05

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	32 (6)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER



HORIZ.	PROJECT	SHEET NO.
VERT. 0 5' 10'	0028-029-269	32(6)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SIGNING & PAVEMENT MARKING PLAN

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	36

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

GENERAL NOTES

1. Unless otherwise approved by the engineer or indicated in the Temporary Traffic Control Plans. Existing traffic signs which are to be relocated shall remain in place until the new sign structure is in place.
2. The removal or modification of existing sign panels, structures, or foundations shall conform to section 510 of the VDOT 2016 Standard.
3. New materials and items required to complete the removal or modification of existing items shall be submitted to the engineer for review and approval in accordance with section 105 of the specifications.
4. All existing and proposed sign locations are approximate and shall be field verified by the contractor to be installed within compliance with the applicable guidance in Revision 2 of the 2009 Edition of the Manual on Uniform Traffic Control Devices (MUTCD) and Revision 1 of the 2011 Virginia Supplement to the 2009 MUTCD.
5. All new longitudinal pavement line markings shall be Type B, Class I thermoplastic.
6. Any existing pavement markings which will conflict with proposed pavement markings shall be completely eradicated per VDOT 2016 Std. Specifications, Section 704.
7. Limits of proposed pavement markings shown are approximate and shall be modified in the field until existing markings can be matched.
8. Plastic Inlaid Markers (PIM) shall be installed on Route 28 and all other roadways that currently have Raised Pavement Markers per VDOT Std. PM-8.
9. (A / B) A. The top section indicates the type of structure. (See DEFINITION OF TYPES)
   B. The bottom section indicates the Measurement & Payment Item (See Section 510.04 Special Provision Copied Note)

   EXAMPLE:

   (WP-1 / A) Single Wood Post
   Remove Existing Sign Structure
10. The sizes of all existing signs to be relocated shall be verified by the Contractor prior to relocation or fabrication of new post(s).
11. If permanent signs are installed prior to the time that they should be displayed, they shall be completely covered by a non-transparent material.
12. See Typical Sections (Sheet 2A(1)- 2A(6)) for lane width dimensions. Thru lanes shall be 12' wide unless otherwise indicated.
13. Mounting height at a minimum of 7', measured vertically from the bottom of the sign panel to the area of interest, is required where parking or pedestrian movements are likely to occur. An 8' mounting height to the bottom of the sign panel is required when the panel is within 3' of a pedestrian facility per VDOT MUTCD Section 2A.18.
14. Sign sheeting for all signs is to be ASTM D4956 Type XI, except for brown and blue colors, which are to be ASTM D4956 Type IV, IX, or XI per VDOT Supplemental Specification SS701-002016-01.
15. Edge of sign panel shall be at least 2' behind face of curb, 4' behind face of concrete barrier, and beyond the guardrail's deflection distance in business, commercial, or residential area (where parking or pedestrian movements are likely to occur) per VDOT MUTCD Section 2A.18.

EXISTING SIGN DISPOSITION

A. REMOVE EXISTING SIGN STRUCTURE, TYPE ( ),

B. RELOCATE EXISTING SIGN STRUCTURE, TYPE ( ),

C. REMOVE EXISTING SIGN TYPE ( ),

D. REMOVE EXISTING O/H SIGN STRUCTURE, TYPE ( ),

E. RELOCATE EXISTING SIGN PANEL TYPE ( ),

Index

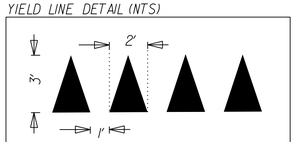
Pavement Marking Legend

DESCRIPTION				WHITE	YELLOW
DASHED LINE - 4"	10'	30'	10'	A	
DASHED LINE - 6"	10'	30'	10'	S	
DASHED LINE - 8"	10'	30'	10'	W	
DASHED LINE - 12"	10'	30'	10'	T	
SOLID LINE - 4"				B	H
SOLID LINE - 6"				N	O
SOLID LINE - 8"				C	I
SOLID LINE - 12"				D	L
SOLID LINE - 24"				E	J
DOTTED LINE - 4"	2' DOT-6' SPACE			F	R
DOTTED LINE - 8"	2' DOT-6' SPACE			V	X
DOTTED LINE - 4"	3' DOT-3' SPACE			Z	
DOTTED LINE - 4"	3' DOT-9' SPACE			P	
DOTTED LINE - 6"	3' DOT-9' SPACE			Y	
DOTTED LINE - 8"	3' DOT-9' SPACE			M	
DOTTED LINE - 12"	3' DOT-9' SPACE			U	
DBL SOLID LINE - 4"					K
DBL SOLID LINE - 4"	10'	30'	10'		Q
PVT MKG MESSAGE					

Signing Legend

DESCRIPTION	SYMBOL Prop.	Ex.
SIGN NO. / TEXT NO.	123 / 12	
SIGN LOCATION (ONE POST)		
SIGN LOCATION (TWO POSTS)		
SIGN LOCATION (THREE POSTS)		

YIELD LINE DETAIL (NTS)



(Type B, Class I Markings)

DEFINITION OF TYPES

TYPE	DESCRIPTION	SIZE
DP-1	O/H Double Pole	50 - 75 L.F.
DP-2	O/H Double Pole	76 - 101 L.F.
DP-3	O/H Double Pole	102 - 127 L.F.
DP-4	O/H Double Pole	128 - 153 L.F.
DP-5	O/H Double Pole	154 - 179 L.F.
DP-6	O/H Double Pole	180 - 205 L.F.
DC-1	O/H Double Pole & Cantilever	75 - 100 L.F.
DC-2	O/H Double Pole & Cantilever	101 - 126 L.F.
DC-3	O/H Double Pole & Cantilever	127 - 152 L.F.
DC-4	O/H Double Pole & Cantilever	153 - 178 L.F.
DC-5	O/H Double Pole & Cantilever	179 - 204 L.F.
DC-6	O/H Double Pole & Cantilever	205 - 230 L.F.
CS-1	O/H Single Arm Cantilever	25 - 40 L.F.
CS-2	O/H Single Arm Cantilever	41 - 60 L.F.
CD-1	O/H Double Arm Cantilever	50 - 74 L.F.
CD-2	O/H Double Arm Cantilever	75 - 125 L.F.
CD-3	O/H Double Arm Cantilever	126 - 175 L.F.
CD-4	O/H Double Arm Cantilever	176 - 225 L.F.
BM	O/H Bridge Mount	EA.
I	Non-breakaway Single Metal Pole	EA.
II	Non-breakaway Two Metal Poles	EA.
III	Non-breakaway Three Metal Poles	EA.
V	Breakaway Single Round Metal Pole	EA.
VA	Breakaway Single Metal Pole	EA.
VIA	Breakaway Two Metal Poles	EA.
VIA3	Breakaway Three Metal Poles	EA.
VIIA	3½" Rolled Roll Steel Pole	EA.
WP-1	Single Wood Post	EA.
WP-2	Two Wood Posts	EA.
WP-3	Three Wood Posts	EA.
ST-1	One Steel Post	EA.
ST-2	Two Steel Posts	EA.
STP-1	Breakaway Single Square Tube Post	EA.
STP-2	Breakaway Two Square Tube Posts	EA.
STP-3	Breakaway Three Square Tube Posts	EA.
SP-1	Sign Panel	0 - 100 S.F.
SP-2	Sign Panel	101 - 200 S.F.
SP-3	Sign Panel	201 - 300 S.F.
SP-4	Sign Panel	301 - 400 S.F.
SP-5	Sign Panel	401 - 500 S.F.
SP-6	Sign Panel	501 - 600 S.F.

2/11/2021
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T108720-36(01).dgn
Plotted By: kperando

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
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SIGNING & PAVEMENT MARKING PLAN

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
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PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	36(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

RETAIN

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX.18"X24") (TY.A OR TY.D FOUNDATION) MOUNT AT 4' HEIGHT.

STP-1 A

102/37 106/37

Entrance A

Entrance B

Entrance C

ROUTE 28 SB

Match Line - Sta. 113+50 - See Sheet 36(2)

ROUTE 28 NB

TIE INTO EXISTING PAVEMENT MARKING AT STATION 101+00 (SBL)

STOP 101/7

ONE WAY

FROM TO

RETAIN

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 1/2 IN.10 GA.POST (APPROX.54"X18") (APPROX.24"X30") (TY. A OR TY.D FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 1/2 IN.12 GA.POST (APPROX.48"X36") (TY. A OR TY.E FOUNDATION)

A CERTIFIED CRIME PREVENTION COMMUNITY — FAIRFAX COUNTY

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX.24"X30") (TY.A OR TY.D FOUNDATION)

TIE INTO EXISTING PAVEMENT MARKING AT STATION 102+66(NBL)

SPEED LIMIT 45 — 104/1 103/1

RETAIN

Match Line - Sta. 113+50 - See Sheet 36(2)

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-076-111	36(1)

2/11/2021
5:08:29 PM

T108720-36(02).dgn
Plotted By: kperando

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
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SIGNING & PAVEMENT MARKING PLAN

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	36(2)

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Match Line - Sta. 113+50 - See Sheet 36(1)

Match Line - See Sheet 36(11)

Match Line - Sta. 11+50 - See Sheet 36(11)

Match Line - Sta. 127+50 - See Sheet 36(3)

ROUTE 28 SB

ROUTE 28 NB

COMPTON RD (EAST) (ROUTE 658)

Entrance E

Entrance F

Entrance G

COMPTON RD

FROM TO

TO FROM

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA. POST (APPROX. 36"X36") (TY.A OR TY.D FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 ½IN.10 GA.WITH 2¾16 IN 10 GA.INNER POST (APPROX.24"X12") (APPROX.24"X24") (APPROX.21"X15") (APPROX.24"X12") (APPROX.24"X24") (APPROX.21"X15") (APPROX.24"X12") (APPROX.24"X24") (APPROX 21"X15") (TY.B OR TY.C FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 ½IN.12 GA.POST (APPROX. 36"X36") (APPROX. 24"X12") (APPROX.54"X18") (TY.B OR TY.C FOUNDATION)

WP-1 A / SP-1 E — RELOCATE TO A NEW 2 ½IN.12 GA.POST (APPROX. 30"X36" (APPROX. 18"X24") (TY.A OR TY.E FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX. 36"X30") (TY.A OR TY.D FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 ½IN.12 GA.POST (APPROX. 36"X36") (APPROX. 24"X12") (APPROX.24"X9") (TY.A OR TY.E FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX. 30"X30") (TY.A OR TY.D FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX. 30"X36") (TY.A OR TY.D FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX. 30"X36") (TY.A OR TY.D FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX. 36"X30") (TY.A OR TY.D FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX. 30"X36") (TY.A OR TY.D FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX. 36"X36") (APPROX. 24"X12") (TY.A OR TY.E FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX. 30"X36") (TY.A OR TY.D FOUNDATION)

STP-1 A — RETAIN

STP-1 A — RETAIN

STP-1 A — TIE INTO EXISTING PAVEMENT MARKING AT STATION 14+59

STP-3 A

Compton Rd NEXT SIGNAL

ONE WAY

TO PEDESTRIANS IN CROSSWALK $200 - $500 VIOLATION FINE

THROUGH TRUCKS PROHIBITED ON COMPTON ROAD

LEFT LANE ENDS

AHEAD

YIELD

NO MOTOR VEHICLES

SPEED LIMIT 45

SPEED LIMIT 35

RIGHT LANE MUST TURN RIGHT

STOP WHEN RED

WRONG WAY

DO NOT ENTER

VIRGINIA BYWAY

CAUTION

M.P.H.

ONE WAY

SCALE 0 50' 100'

PROJECT	SHEET NO.
0028-076-111	36(2)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SIGNING & PAVEMENT MARKING PLAN

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	36(3)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

Match Line - Sta. 127+50 - See Sheet 36(2)

Match Line - Sta. 140+50 - See Sheet 36(4)

ROUTE 28 SB

ROUTE 28 NB

BRADENTON DR (ROUTE 8882)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX.36"X36") (TY.A OR TY.D FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 ½ IN.12 GA.POST (APPROX.54"X18") (APPROX.24"X30"). (TY.A OR TY.E FOUNDATION)

STP-3 A — PLEASE DRIVE NEXT SIGNAL

301 / 70 — Compton Rd NEXT SIGNAL

Bradenton Dr NEXT RIGHT

309 / 72

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX.30"X36") (TY.A OR TY.D FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN. 14 GA.POST (APPROX.30"X36") (TY.A OR TY.D FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN. 14 GA.POST (APPROX. 24"X30") (TY.A OR TY.D FOUNDATION)

SPEED LIMIT 45

STP-1 A — NO MOTOR VEHICLES

STP-1 A — DO NOT ENTER — 308/2

STP-1 A — DO NOT ENTER — 307/2

STP-1 A — ONE WAY — NO MOTOR VEHICLES — 306/17

STP-1 A — ONE WAY

I B — BRADENTON DR — RELOCATE

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX.24"X30") (APPROX.24"X91) (TY.A OR TY.D FOUNDATION)

TIE INTO EXISTING PAVEMENT MARKING AT STATION 11+89

DO NOT ENTER — 303/2 — 302/2

STOP — WP-1 A / WP-1 A — 305/7 — 304/7

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA. POST (APPROX. 30"X36") (TY.A OR TY.D FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA. POST (APPROX. 30"X36") (TY.A OR TY.D FOUNDATION)

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-076-111	36(3)

2/11/2021
5:12:00 PM

T108720-36(04).dgn
Plotted By: kperando

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SIGNING & PAVEMENT MARKING PLAN

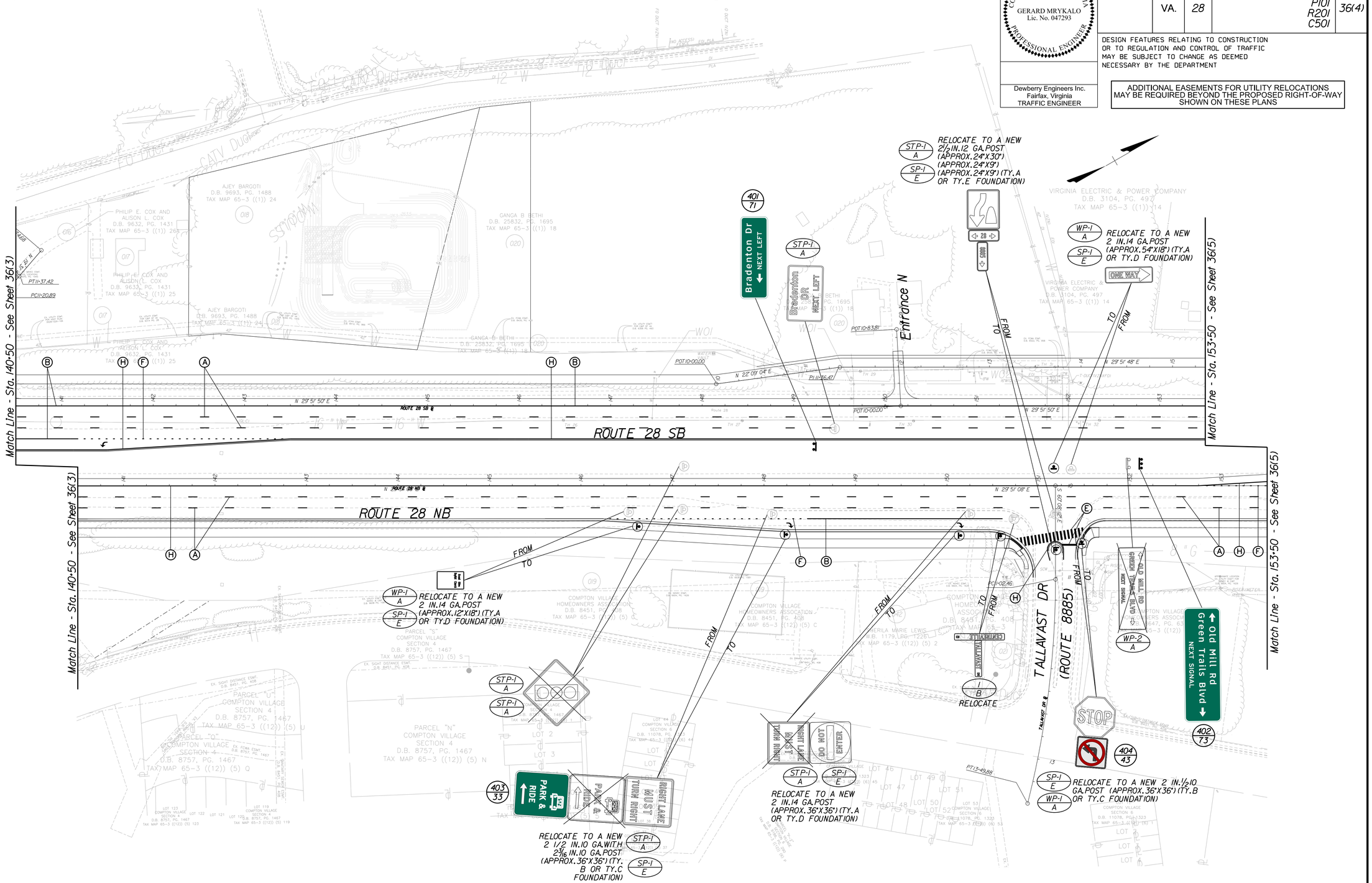
COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	36(4)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-076-111	36(4)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
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SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SIGNING & PAVEMENT MARKING PLAN

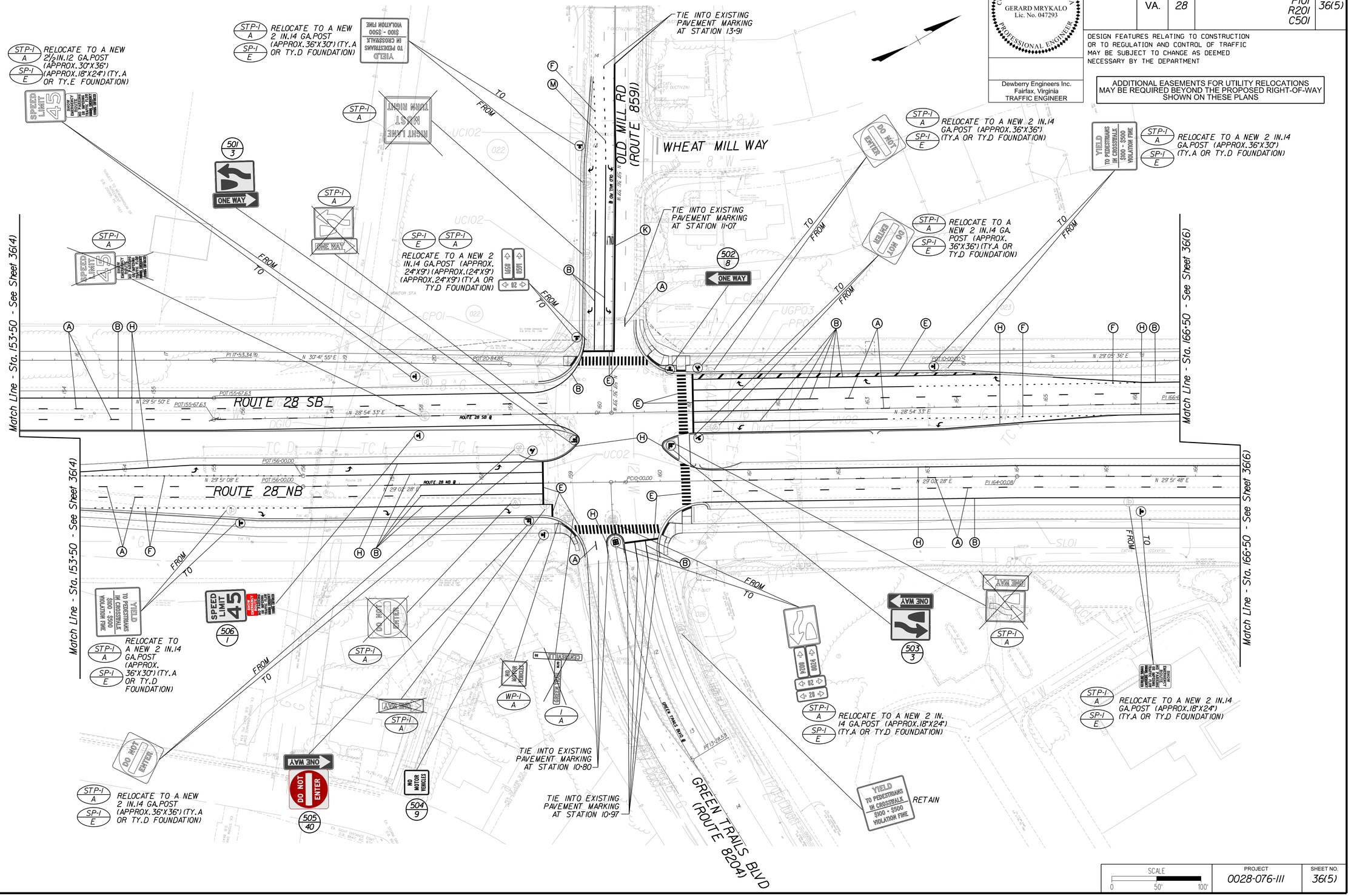
GERARD MRYKALO
Lic. No. 047293
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	36(5)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-076-111	36(5)

2/11/2021
5:15:32 PM

T108720-36(06).dgn
Plotted By: kperando

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SIGNING & PAVEMENT MARKING PLAN

COMMONWEALTH OF VIRGINIA
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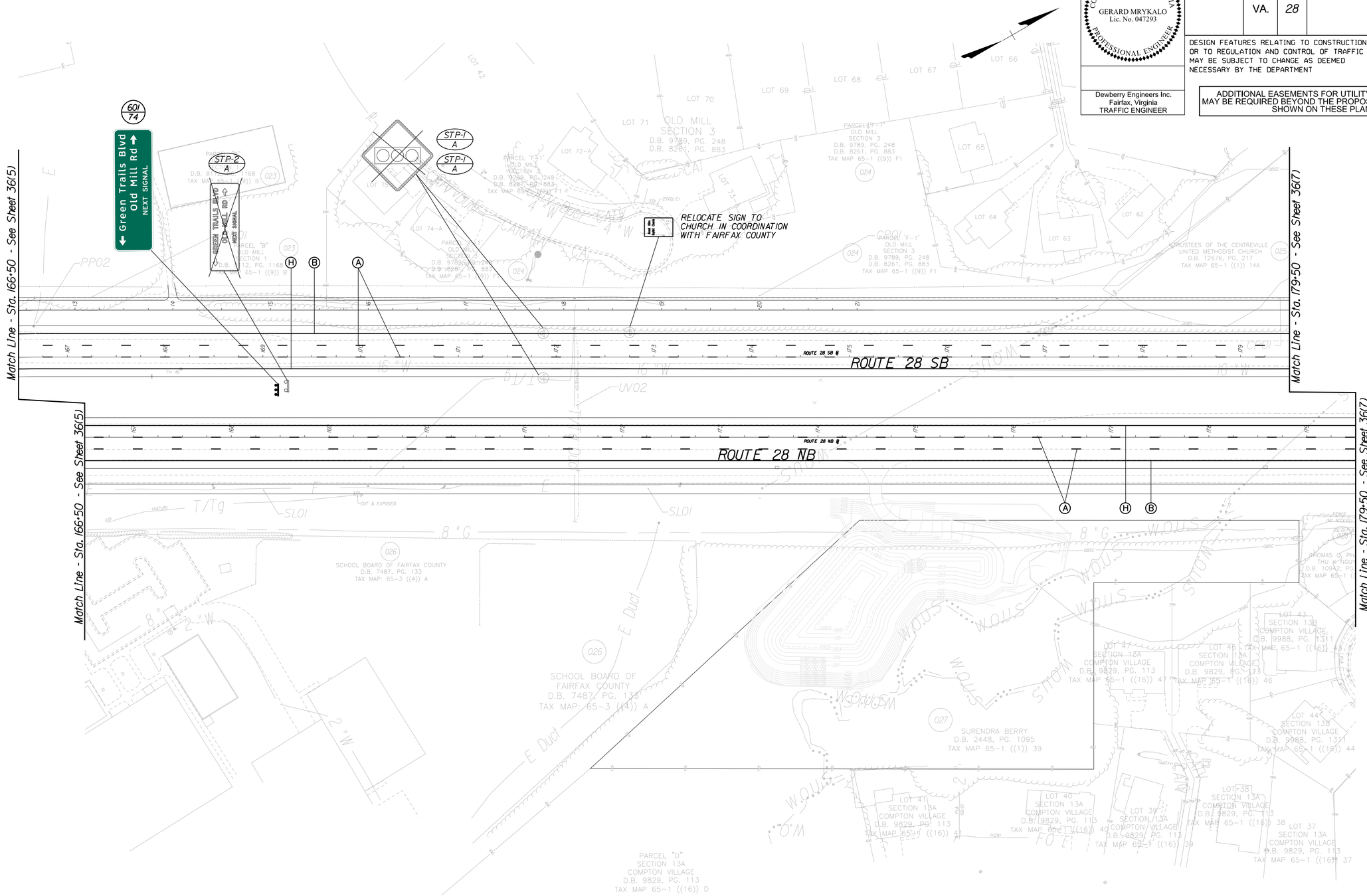
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	36(6)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-076-111	36(6)

2/11/2021
5:17:17 PM

T108720-36(07).dgn
Plotted By: kperando

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
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SIGNING & PAVEMENT MARKING PLAN

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

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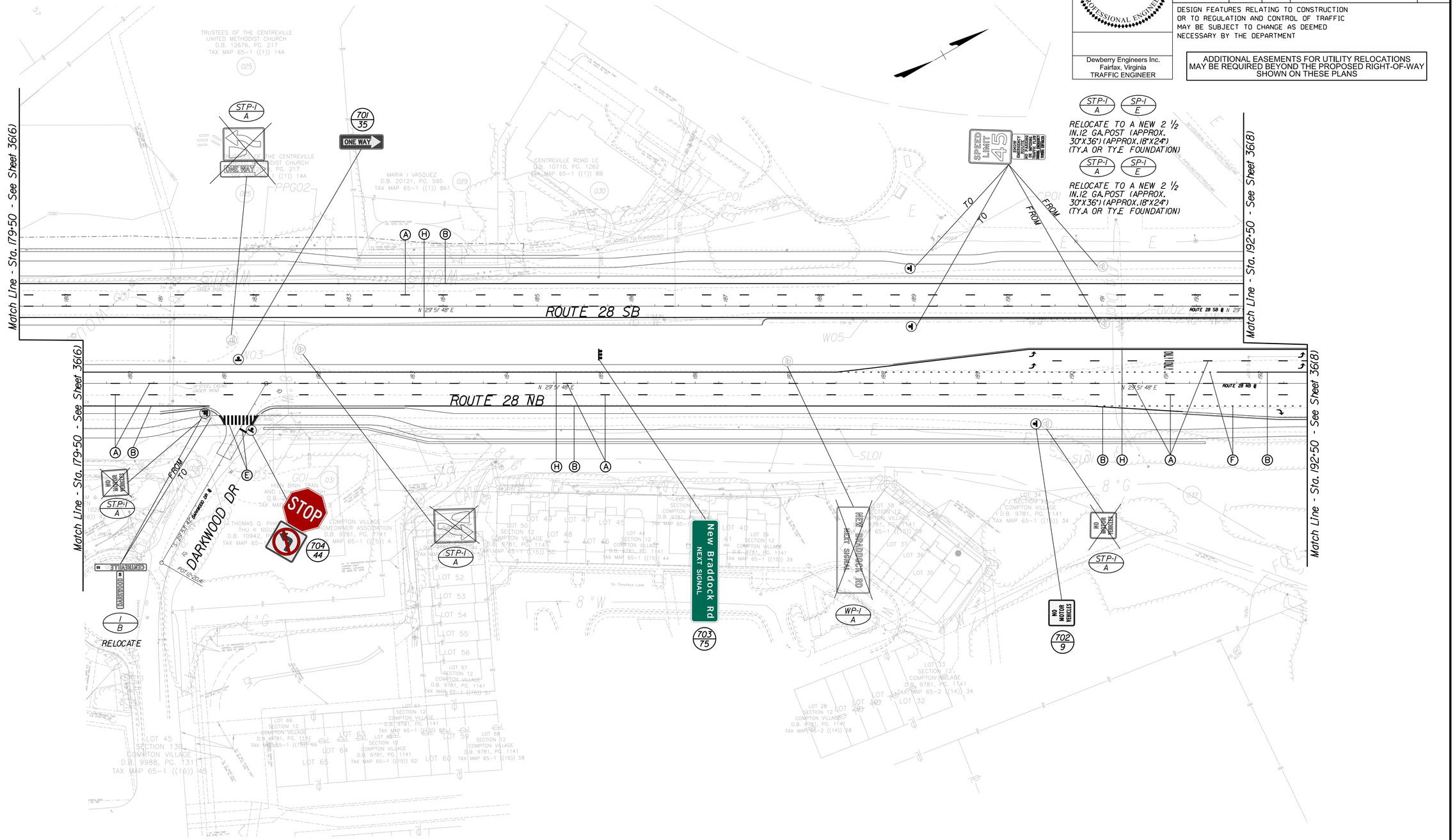
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	36(7)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS



SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-076-111	36(7)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SIGNING & PAVEMENT MARKING PLAN

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	36(8)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

TIE INTO EXISTING PAVEMENT MARKING AT STATION 17+00

NEW BRADDOCK RD (ROUTE 8350)

RETAIN

TIE INTO EXISTING PAVEMENT MARKING AT STATION 14+03

RELOCATE TO A NEW 2 1/2 IN.10 GA.POST (APPROX.24"X12") (APPROX.24"X24") (APPROX.21"X15") (APPROX.24"X12") (APPROX.24"X24") (APPROX.21"X15") (TY.B OR TY.C FOUNDATION)

RELOCATE TO A NEW 2 IN.14 GA. POST (APPROX. 36"X36") (TY.A OR TY. D FOUNDATION)

RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX. 36"X36") (TY.A OR TY.D FOUNDATION)

RELOCATE TO A NEW 2 IN.14 GA. POST (APPROX. 36"X36") (TY.A OR TY.D FOUNDATION)

RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX. 36"X48") (TY.A OR TY.D FOUNDATION)

RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX.42"X30") (TY.A OR TY.D FOUNDATION)

RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX.42"X30") (TY.A OR TY.D FOUNDATION)

RELOCATE TO A NEW 2 1/2 IN.14 GA. POST (APPROX.54"X18") (APPROX.24"X30") (TY.A OR TY.E FOUNDATION)

RELOCATE TO A NEW 2 IN.14 GA. POST (APPROX. 36"X30") (TY.A OR TY.D FOUNDATION)

RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX. 42"X30") (TY.A OR TY.D FOUNDATION)

RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX.18"X18") (TY.A OR TY.D FOUNDATION)

RELOCATE TO A NEW 2 1/2 IN.10 GA. POST (APPROX. 24"X12") (APPROX. 24"X24") (APPROX. 21"X15") (APPROX. 24"X12") (APPROX. 24"X24") (APPROX. 21"X15"XTY.B OR TY.C FOUNDATION)

RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX. 42"X30") (TY.A OR TY.D FOUNDATION)

RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX. 42"X30") (TY.A OR TY.D FOUNDATION)

TIE INTO EXISTING PAVEMENT MARKING AT STATION 12+38

Match Line - Sta.12+50
See Inset A Sheet 36(11)

Match Line - Sta.192+50 - See Sheet 36(7)

Match Line - Sta. 205+50 - See Sheet 36(9)

ROUTE 28 SB

ROUTE 28 NB

New Braddock Rd NEXT SIGNAL

Machen Rd NEXT SIGNAL

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-076-111	36(8)

2/11/2021
5:20:56 PM

T108720-36(09).dgn
Plotted By: kperando

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SIGNING & PAVEMENT MARKING PLAN

GERARD MRYKALO
Lic. No. 047293
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	36(9)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

TIE INTO EXISTING PAVEMENT MARKING AT STATION 16+06

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 1/2 IN.10 GA.POST WITH 2 POST (APPROX.78"X30") (TY.A OR TY.E FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.12 GA.POST (APPROX.54"X18") (APPROX.24"X30") (TY.A OR TY.E FOUNDATION).

MACHEN RD (ROUTE 5401)

SPEED LIMIT 35 — RETAIN

TIE INTO EXISTING PAVEMENT MARKING AT STATION 12+05

DO NOT ENTER / ONE WAY — 901/40

DO NOT ENTER — 902/2

SPEED LIMIT 45

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 1/2 IN.12 GA.POST.(APPROX. 18"X24") (APPROX.30"X36") (TY.A OR TY.E FOUNDATION)

903/76

Machen Rd NEXT SIGNAL

Match Line - Sta. 205+50 - See Sheet 36(8)

Match Line - Sta. 219+50 - See Sheet 36(10)

ROUTE 28 SB

ROUTE 28 NB

RESUBDIVISION OF LOTS 29 THRU 35 LAND BAY 1B SECTION 1 CENTRE RIDGE D.B. 29351, PG. 237

PARCEL "A" LAND BAY 1B SECTION 1 CENTRE RIDGE D.B. 8891, PG. 103 TAX MAP 65-2 ((13))(1) A

PARCEL "A" CENTRE VILLAGE D.B. 11208, PG. 496 TAX MAP 65-2 ((16)) A

ONE WAY — RETAIN

20 SCHS 5401

RIGHT LANE MUST TURN RIGHT

FROM / TO

DO NOT ENTER — 907/2

ONE WAY — 906/40

NO MOTOR VEHICLES — 905/9

NO PARKING OR STANDING FIRE LANE

RETAIN

STOP — RETAIN

MACHEN RD (ROUTE 5401)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 1/2 IN.12 GA.POST (APPROX.54"X18") (APPROX.24"X30") (TY.A OR TY.E FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 1/2 IN.12 GA.POST (APPROX.48"X36") (TY.A OR TY.E FOUNDATION)

Old Centreville Rd NEXT SIGNAL — 904/77

DP-1 A / SP-2 E — RELOCATE TO NEW OH SIGN STRUCTURE (APPROX.20'-0" x 7'-6") (SEE SHEET 38 SERIES FOR ITS PLAN DETAILS)

DMS DMS DMS

O/H LOCATION NOJ

WP-2 A

OLD CENTREVILLE RD NEXT SIGNAL

MACHEN RD NEXT SIGNAL

STP-2 A / SP-1 E — RELOCATE TO A NEW 2 1/2 IN. 10 GA.WITH 2 3/16 IN.10 GA.POST (2 POSTS) (APPROX.72"X84") (TY.B OR TY.C FOUNDATION)

TO EAST 66 — 1/4 MILE — TO West 66

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-076-111	36(9)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
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SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SIGNING & PAVEMENT MARKING PLAN

COMMONWEALTH OF VIRGINIA
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Lic. No. 047293
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Dewberry Engineers Inc.
Fairfax, Virginia
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REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	36(10)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 ½IN. 12 GA.POST (APPROX.54"X18") (APPROX.24"X30") (APPROX.24"X30"). (TY.A OR TY.E FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA.POST. (APPROX.36"X30") (TY.A OR TY.D FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN. 14 GA.POST (APPROX. 24"X30") (APPROX.24"X9") (TY.A OR TY.D FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 ½IN. 12 GA. POST (APPROX.54"X18") (24"X30") (TY.A OR TY.E FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX. 18"X24") (TY.A OR TY.D FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX. 36"X36") (TY.A OR TY.D FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2 IN.14 GA.POST (APPROX. 36"X36") (TY.A OR TY.D FOUNDATION)

STP-1 A / SP-1 E — RELOCATE TO A NEW 2½IN.12 GA.POST (APPROX. 36"X36"X APPROX.24"X9") (APPROX.24"X9"X APPROX.24"X9") (TY.A OR TY.E FOUNDATION)

STP-1 A — RELOCATE

RETAIN

TIE INTO EXISTING PAVEMENT MARKING AT STATION 11+50

TIE INTO EXISTING PAVEMENT MARKING AT STATION 12+06

TIE INTO EXISTING PAVEMENT MARKING AT STATION 12+00

TIE INTO EXISTING PAVEMENT MARKING AT STATION 14+50

TIE INTO EXISTING PAVEMENT MARKING AT STATION 227+50 (SBL)

TIE INTO EXISTING PAVEMENT MARKING AT STATION 228+33 (NBL)

TIE INTO EXISTING PAVEMENT MARKING AT STATION 232+03.27 (SBL)

TIE INTO EXISTING PAVEMENT MARKING AT STATION 231+67.19 (NBL)

UPPERRIDGE DR (ROUTE 8349)

ROUTE 28 SB

ROUTE 28 NB

OLD CENTREVILLE RD (ROUTE 858)

OLD CENTREVILLE RD (ROUTE 898)

Match Line - Sta. 219+50 - See Sheet 36(9)

Match Line - Sta. 219+50 - See Sheet 36(9)

SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-076-111	36(10)

Dewberry

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
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SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SIGNING & PAVEMENT MARKING PLAN

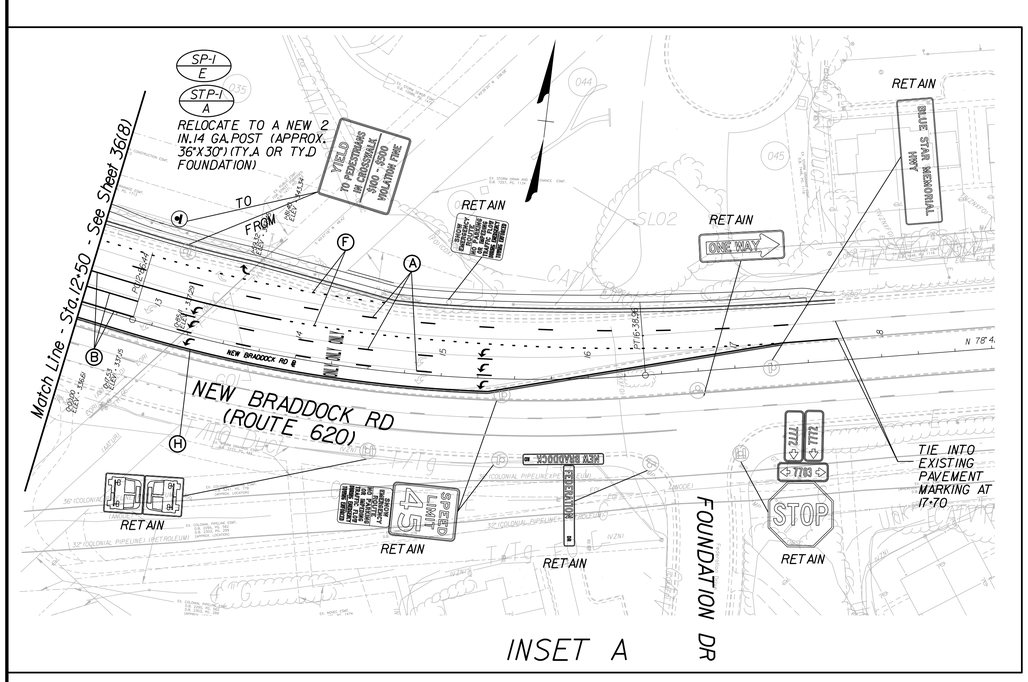
COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

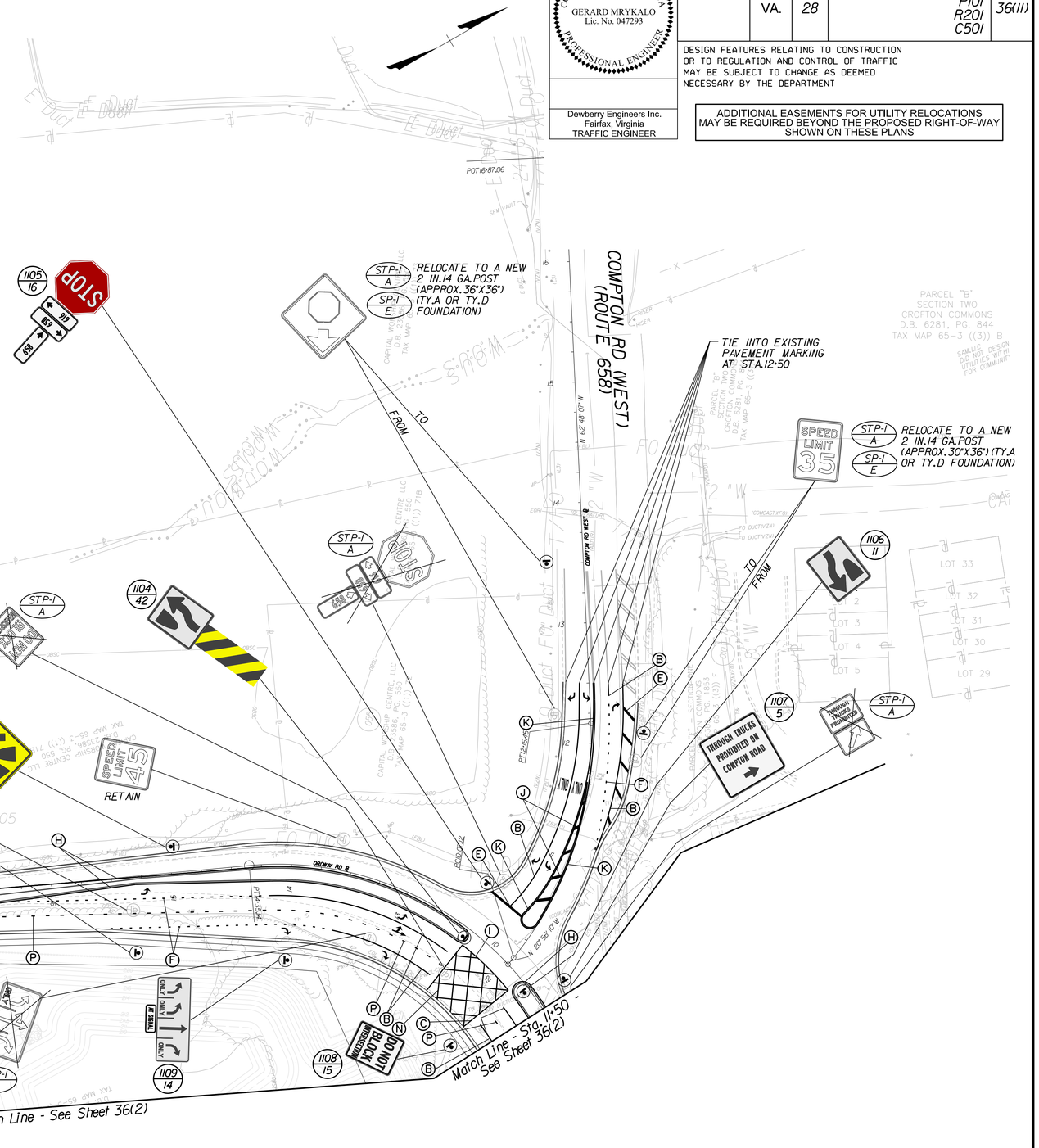
Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	36(II)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS





SCALE	PROJECT	SHEET NO.
0 50' 100'	0028-076-III	36(III)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SIGNALIZATION PLAN

Centreville Rd (Rte 28) & Upperridge Dr (Rte 8349) /Old Centreville Rd (Rte 898)

GERARD MRYKALO
Lic. No. 047293
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
.	VA.	28	0028-029-269 P101 R201 C501	37(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

Cable & Conduit Runs

- (A) 2-1" METAL CONDUITS
- (B) 3-1" METAL CONDUITS
- (C) 4-1" METAL CONDUITS
- (D) 1-3" CONDUIT; 3-14/2C(S) FOR DETECTORS
- (E) EXISTING CONDUIT; 3-14/2C(S) FOR DETECTORS
- (F) EXISTING CONDUIT; 5-14/2C(S) FOR DETECTORS
- (G) 1-3" CONDUIT; 5-14/2C(S) FOR DETECTORS
- (H) 1-3" CONDUIT; 3-14/7C FOR HEADS 1,5,6; 1-CAT6 (S) OUTDOOR NETWORK CABLE (CCTV); 1-#6 AWG EGC
- (I) 1-3" CONDUIT; 1-14/2C FOR PED PB; 1-14/7C FOR PED HEAD P4; 1-#6 AWG EGC
- (J) 1-3" CONDUIT; 1-14/2C FOR PED PB; 1-14/7C FOR PED HEAD P6; 1-14/7C FOR HEAD 4; 1-#6 AWG EGC
- (K) 1-4" BORED CONDUIT; 2-14/2C FOR PED PB'S; 2-14/7C FOR PED HEADS P4,P6; 1-14/7C FOR HEAD 4; 3-14/7C FOR HEADS 1,5,6; 1-CAT6 (S) OUTDOOR NETWORK CABLE (CCTV); 4-14/2C(S) FOR DETECTORS; 1-#6 AWG EGC
- (L) 1-3" CONDUIT; 1-14/2C FOR PED PB; 1-14/7C FOR PED HEAD P6; 4-14/7C FOR HEADS 3,6,7,8; 1-#6 AWG EGC
- (M) 1-4" BORED CONDUIT; 3-14/2C FOR PED PB'S; 3-14/7C FOR PED HEADS P4,P6; 1-14/7C FOR HEAD 4; 3-14/7C FOR HEADS 1,5,6; 4-14/7C FOR HEADS 3,6,7,8; 1-CAT6 (S) OUTDOOR NETWORK CABLE (CCTV); 9-14/2C(S) FOR DETECTORS; 1-#6 AWG EGC
- (N) 1-3" CONDUIT; 1-14/2C FOR PED PB; 1-14/7C FOR PED HEAD P4; 1-14/7C FOR HEAD 2; 1-#6 AWG EGC
- (O) 1-3" CONDUIT; 1-14/2C FOR PED PB; 1-14/7C FOR PED HEAD P4; 1-14/7C FOR HEAD 2; 5-14/2C(S) FOR DETECTORS; 1-#6 AWG EGC
- (P) 1-3" CONDUIT; 1-14/2C FOR PED PB; 1-14/7C FOR PED HEAD P2; 1-#6 AWG EGC
- (R) 1-3" CONDUIT; 3-14/7C FOR HEADS 3,4,7; 1-CAT6 (S) OUTDOOR NETWORK CABLE (RADIO); 1-#6 AWG EGC
- (S) 1-4" BORED CONDUIT; 2-14/2C FOR PED PB'S; 2-14/7C FOR PED HEADS P2,P4; 1-14/7C FOR HEAD 2; 3-14/7C FOR HEADS 3,4,7; 5-14/2C(S) FOR DETECTORS; 1-CAT6 (S) OUTDOOR NETWORK CABLE (RADIO); 1-#6 AWG EGC
- (T) 1-3" CONDUIT; 1-14/7C FOR HEAD 8; 1-#6 AWG EGC
- (U) 1-3" CONDUIT; 1-14/7C FOR HEAD 8; 4-14/2C(S) FOR DETECTORS; 1-#6 AWG EGC
- (V) 1-3" CONDUIT; 3-14/7C FOR HEADS 1,2,5; 1-#6 AWG EGC
- (W) 1-4" CONDUIT; 6-14/2C FOR PED PB'S; 6-14/7C FOR PED HEADS P2,P4,P6; 3-14/7C FOR HEADS 3,4,7; 1-14/7C FOR HEAD 4; 3-14/7C FOR HEADS 1,5,6; 4-14/7C FOR HEADS 3,6,7,8; 3-14/7C FOR HEADS 1,2,5; 1-14/7C FOR HEAD 8; 1-14/7C FOR HEAD 2; 1-14/7C FOR HEAD 6; 1-#6 AWG EGC
- (X) 1-4" CONDUIT; 1-CAT6 (S) OUTDOOR NETWORK CABLE (CCTV); 1-CAT6 (S) OUTDOOR NETWORK CABLE (RADIO); 18-14/2C(S) FOR DETECTORS; 1-#6 AWG EGC
- 1-3" CONDUIT (EMPTY)
- (X) 1-1" METAL CONDUIT; 1-#6 AWG EGC FOR COMMUNICATIONS
- (Y) 1 1/2" METAL CONDUIT; 3-#6 AWG FOR ELECTRICAL SERVICE
- (Z) 1-1" CONDUIT; 1-#6 AWG EGC FOR SYSTEM GROUNDING
- (AA) 1-2" CONDUIT (EMPTY) FOR ELECTRICAL SERVICE

EGC - ELECTRICAL GROUNDING CONDUCTOR
(S) - SHIELDED CABLE

Street Name Signs

S-5 (8'-6" x 1'-6")
Centreville Rd
R-2.25" (TYP.)
8" (TYP.)
CLEARVIEW 5-W

S-6 (13'-0" x 2'-6")
← Old Centreville Rd
Upperridge Dr →
R-3" (TYP.)
8" (TYP.)
CLEARVIEW 5-W

S-7 (13'-0" x 2'-6")
← Upperridge Dr
Old Centreville Rd →
R-3" (TYP.)
8" (TYP.)
CLEARVIEW 5-W

SIGNS ARE TO HAVE BLUE BACKGROUND WITH WHITE LEGEND AND BORDER.

Signals

ALL TRAFFIC SIGNAL HEAD SECTIONS SHALL BE 12" LED.

HEADS 2,4,6,8 — HEADS 1,3,5,7 — HEADS P2,P4,P6

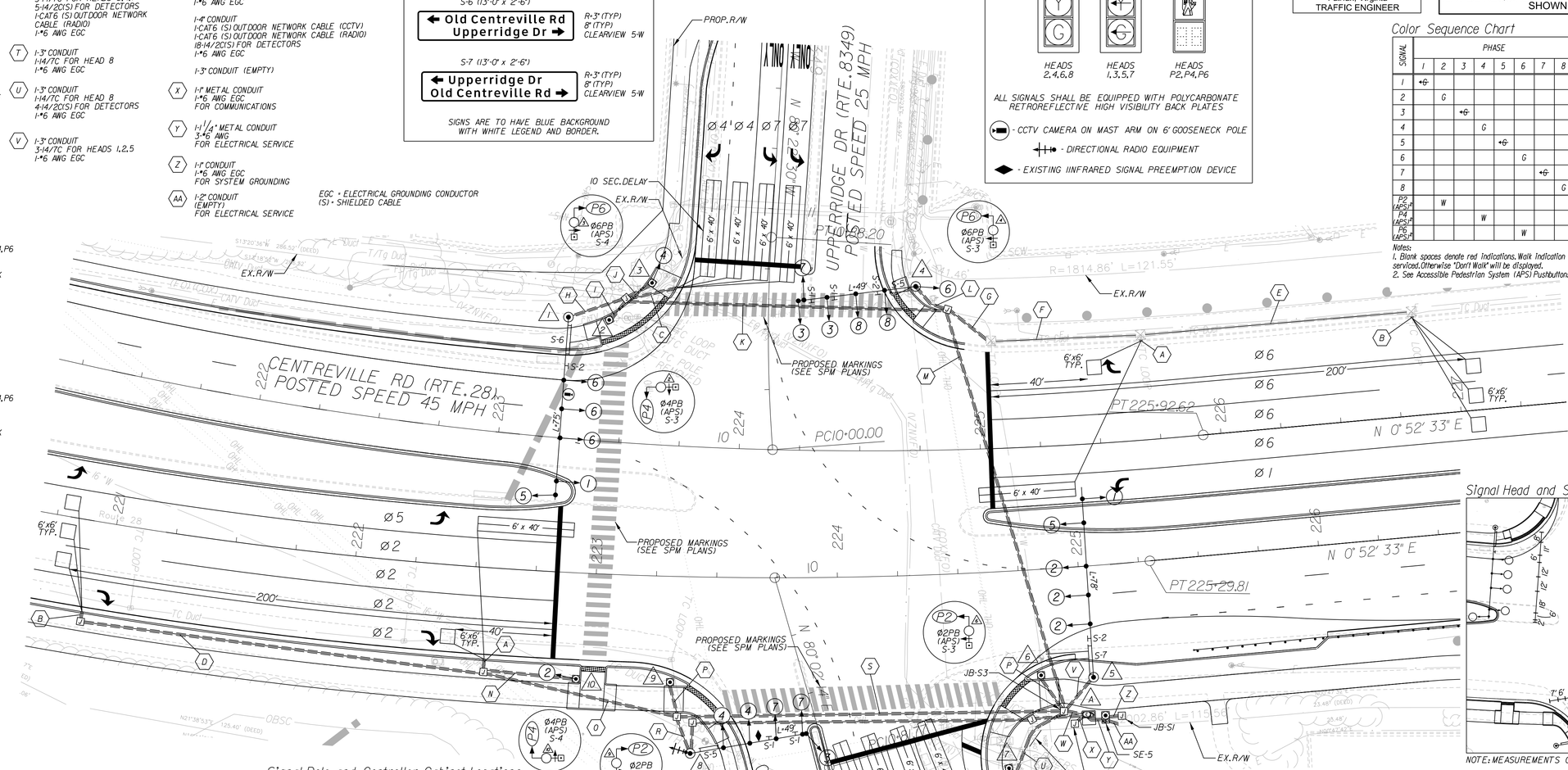
ALL SIGNALS SHALL BE EQUIPPED WITH POLYCARBONATE RETROREFLECTIVE HIGH VISIBILITY BACK PLATES

- CCTV CAMERA ON MAST ARM ON 6' GOOSENECK POLE
- DIRECTIONAL RADIO EQUIPMENT
- EXISTING IINFRARED SIGNAL PREEMPTION DEVICE

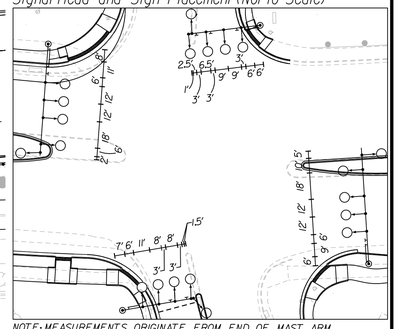
Color Sequence Chart

SIGNAL	PHASE 1	2	3	4	5	6	7	8	COMBINATION 1-5	1-6	2-5	2-6	3-7	3-8	4-7	4-8	FLASH
1	G								G	G							A
2		G									G	G					Y
3			G										G	G			A
4				G											G	G	R
5					G				G		G						A
6						G				G		G					Y
7							G						G		G		A
8								G						G		G	R
P2 (APS)	W										W	W					BLNK
P4 (APS)			W												W	W	BLNK
P6 (APS)					W					W		W					BLNK

Notes:
1. Blank spaces denote red indications. Walk indication displayed after pedestrian call serviced. Otherwise "Don't Walk" will be displayed.
2. See Accessible Pedestrian System (APS) Pushbuttons detail.



Signal Head and Sign Placement (Not to Scale)

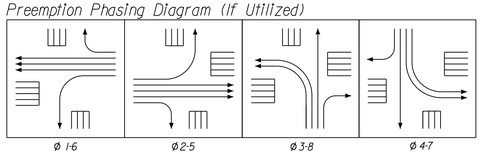


NOTE: MEASUREMENTS ORIGINATE FROM END OF MAST ARM

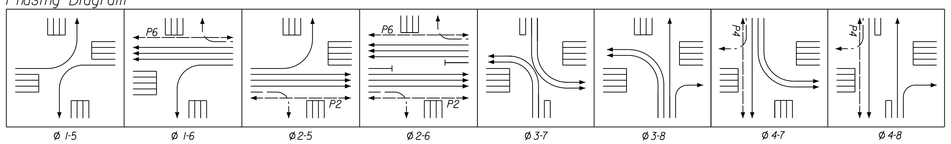
Signal Pole and Controller Cabinet Locations

A	STA 224+99 (RTE.28 NB)	61' RT	6	STA 224+84 (RTE.28 NB)	44' RT
1	STA 223+24 (RTE.28 SB)	50' LT	7	STA 224+70 (RTE.28 NB)	82' RT
2	STA 223+41 (RTE.28 SB)	50' LT	8	STA 223+42 (RTE.28 NB)	73' RT
3	STA 223+57 (RTE.28 SB)	67' LT	9	STA 223+33 (RTE.28 NB)	44' RT
4	STA 224+73 (RTE.28 SB)	68' LT	10	STA 222+96 (RTE.28 NB)	44' RT
5	STA 225+03 (RTE.28 NB)	46' RT			

Preemption Phasing Diagram (If Utilized)



Phasing Diagram



Signs

S-1 — R3-5L 30" x 36"
S-2 — R3-5R 30" x 36"

Accessible Pedestrian System (APS) Pushbuttons

S-3 R10-3e(L) 9" x 15"
S-4 R10-3e(R) 9" x 15"

PUSHBUTTON PB2,PB4,PB6 (S-3) — PUSHBUTTONS PB2,PB4,PB6 (S-4)

PUSH BUTTONS PB2,PB4,AND PB6 SHALL HAVE A PERCUSSIVE TONE WALK INDICATION.

PUSH BUTTONS PB2 SHALL HAVE THE FOLLOWING MESSAGE FOR WAIT, "WAIT TO CROSS OLD CENTREVILLE ROAD AT CENTREVILLE ROAD".

PUSH BUTTONS PB6 SHALL HAVE THE FOLLOWING MESSAGE FOR WAIT, "WAIT TO CROSS UPPERRIDGE AT CENTREVILLE ROAD".

PUSH BUTTONS PB4 SHALL HAVE THE FOLLOWING MESSAGE FOR WAIT, "WAIT TO CROSS CENTREVILLE ROAD AT UPPERRIDGE/OLD CENTREVILLE ROAD".

Initial Timing Chart

PHASE / MOVEMENT	1 SB LT ROUTE 28	2 NB TH ROUTE 28	3 WB LT ROUTE 898	4 EB TH ROUTE 8349	5 NB LT ROUTE 28	6 SB TH ROUTE 28	7 EB LT ROUTE 8349	8 WB TH ROUTE 898
PHASE ON	x	x	x	x	x	x	x	x
PHASE OFF								
INTERVAL	PHASE TIMINGS							
MIN GR	7.0	20.0	7.0	10.0	7.0	20.0	7.0	10.0
PASSAGE	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
AMBER	4.1	4.9	3.7	3.1	4.0	5.1	3.0	4.6
RED	4.2	1.4	5.0	3.0	4.8	1.0	5.6	1.7
MAX 1	30.0	90.0	30.0	40.0	30.0	90.0	30.0	40.0
MAX 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MIN GAP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIME BEFORE REDUCTION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIME TO REDUCE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEADING PED WALK	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0
PED WALK		8.0		9.0		7.0		
PED CLEARANCE		30.0		34.0		23.0		
MODE	NL	MIN RECALL	NL	NL	NL	MIN RECALL	NL	NL

SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	37(1)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SIGNALIZATION PLAN

Centreville Rd (Rte 28) & Machen Rd (Rte 5401)

Cable & Conduit Runs

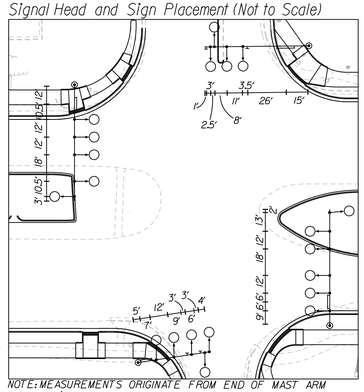
- (A) 2-1" METAL CONDUITS
- (B) 3-1" METAL CONDUITS
- (C) 4-1" METAL CONDUITS
- (D) 1-3" CONDUIT 3-14/2C(S) FOR DETECTORS
- (E) 1-3" CONDUIT 4-14/2C(S) FOR DETECTORS
- (F) 1-3" CONDUIT 5-14/2C(S) FOR DETECTORS
- (G) 1-3" CONDUIT 6-14/2C(S) FOR DETECTORS
- (H) 1-3" CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEAD P4
  1-14/7C FOR HEAD 2
  1-#6 AWG EGC
- (I) 1-3" CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEAD P2
  1-#6 AWG EGC
- (J) 1-3" CONDUIT
  4-14/7C FOR HEADS 3,4,4A,7
  1-#6 AWG EGC
- (K) 1-4" BORED CONDUIT
  2-14/2C FOR PED PB'S
  2-14/7C FOR PED HEADS P2,P4
  1-14/7C FOR HEAD 2
  4-14/7C FOR HEADS 3,4,4A,7
  6-14/2C(S) FOR DETECTORS
  1-#6 AWG EGC
- (L) 1-3" CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEAD P2
  1-14/7C FOR HEAD 8
  1-#6 AWG EGC
- (M) 1-3" CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEAD P2
  1-14/7C FOR HEAD 8
  3-14/2C(S) FOR DETECTORS
  1-#6 AWG EGC
- (N) 1-3" CONDUIT
  3-14/7C FOR HEADS 1,2,5
  1-#6 AWG EGC
- (O) 1-4" BORED CONDUIT
  3-14/2C FOR PED PB'S
  3-14/7C FOR PED HEADS P2,P4
  1-14/7C FOR HEAD 2
  4-14/7C FOR HEADS 3,4,4A,7
  1-14/7C FOR HEAD 8
  3-14/7C FOR HEADS 1,2,5
  9-14/2C(S) FOR DETECTORS
  1-#6 AWG EGC
- (P) 1-3" CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEAD P4
  1-#6 AWG EGC
- (R) 1-3" CONDUIT
  4-14/7C FOR HEADS 1,5,6,6A
  2- CAT6 (S) OUTDOOR NETWORK CABLE (RADIO)
  1-#6 AWG EGC
- (S) 1-3" CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEAD P6
  1-14/7C FOR HEAD 4A
  1-#6 AWG EGC
- (T) 1-4" BORED CONDUIT
  2-14/2C FOR PED PB'S
  2-14/7C FOR PED HEADS P4,P6
  4-14/7C FOR HEADS 1,5,6,6A
  1-14/7C FOR HEAD 4A
  4-14/2C(S) FOR DETECTORS
  2- CAT6 (S) OUTDOOR NETWORK CABLE (RADIO)
  1-#6 AWG EGC
- (U) 1-3" CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEAD P6
  1-14/7C FOR HEAD 6A
  1-#6 AWG EGC
- (V) 1-3" CONDUIT
  6-14/2C FOR PED PB'S
  6-14/7C FOR PED HEADS P2,P4,P6
  1-14/7C FOR HEAD 2
  4-14/7C FOR HEADS 3,4,4A,7
  1-14/7C FOR HEAD 8
  3-14/7C FOR HEADS 1,2,5
  1-14/7C FOR HEAD 4A
  4-14/7C FOR HEADS 1,5,6,6A
  1-14/7C FOR HEAD 6A
  18-14/2C(S) FOR DETECTORS
  2- CAT6 (S) OUTDOOR NETWORK CABLE (RADIO)
  1-#6 AWG EGC
- (W) 1-3" CONDUIT
  3-14/7C FOR HEADS 3,7,8
  1-CAT6 (S) OUTDOOR NETWORK CABLE (CCTV)
  1-#6 AWG EGC
- (X) 1-4" CONDUIT
  6-14/2C FOR PED PB'S
  6-14/7C FOR PED HEADS P2,P4,P6
  1-14/7C FOR HEAD 2
  4-14/7C FOR HEADS 3,4,4A,7
  1-14/7C FOR HEAD 8
  3-14/7C FOR HEADS 1,2,5
  1-14/7C FOR HEAD 4A
  4-14/7C FOR HEADS 1,5,6,6A
  1-14/7C FOR HEAD 6A
  3-14/7C FOR HEADS 3,7,8
  1-#6 AWG EGC

  1-4" CONDUIT
  1-CAT6 (S) OUTDOOR NETWORK CABLE (CCTV)
  2- CAT6 (S) OUTDOOR NETWORK CABLE (RADIO)
  18-14/2C(S) FOR DETECTORS
  1-#6 AWG EGC

  1-3" CONDUIT (EMPTY)
- (Y) 1-1 1/4" METAL CONDUIT
  3-#6 AWG EGC
  FOR ELECTRICAL SERVICE
- (Z) 1-1" CONDUIT
  1-#6 AWG EGC
  FOR SYSTEM GROUNDING
- (AA) 1-1" METAL CONDUIT
  1-#6 AWG EGC
  FOR COMMUNICATIONS
- (BB) 1-2" CONDUIT
  (EMPTY)
  FOR ELECTRICAL SERVICES
- (CC) 1-2" CONDUIT
  WITH PULL ROPE
  RATED AT 1100 LBS

EGC - ELECTRICAL GROUNDING CONDUCTOR
(S) - SHIELDED CABLE

Signal Head and Sign Placement (Not to Scale)



NOTE: MEASUREMENTS ORIGINATE FROM END OF MAST ARM

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

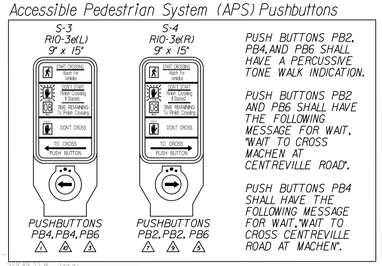
Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	37(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

Accessible Pedestrian System (APS) Pushbuttons



PUSH BUTTONS PB2, PB4, AND PB6 SHALL HAVE A PERCUSSIVE TONE WALK INDICATION.

PUSH BUTTONS PB2 AND PB6 SHALL HAVE THE FOLLOWING MESSAGE FOR WAIT, "WAIT TO CROSS MACHEN AT CENTREVILLE ROAD".

PUSH BUTTONS PB4 SHALL HAVE THE FOLLOWING MESSAGE FOR WAIT, "WAIT TO CROSS CENTREVILLE ROAD AT MACHEN".

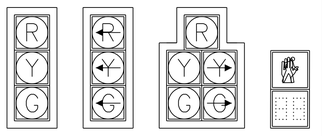
Color Sequence Chart

SIGNAL	PHASE 1	2	3	4	5	6	7	8	COMBINATION 1-5	1-6	2-5	2-6	3-7	3-8	4-7	4-8	FLASH
1	G								G	G							R
2		G									G	G					Y
3			G										G	G			R
4				G											G	G	R
4A				G	G				G		G						R
5					G				G		G						R
6						G				G		G					Y
6A						G	G						G		G		Y
7							G						G		G		R
8								G						G		G	R
P2 (APS)*	W										W	W					BLNK
P4 (APS)*				W											W	W	BLNK
P6 (APS)*						W				W		W					BLNK

Notes:
1. Blank spaces denote red indications. Walk indication displayed after pedestrian call serviced. Otherwise "Don't Walk" will be displayed.
2. See Accessible Pedestrian System (APS) Pushbuttons detail.

Signals

ALL TRAFFIC SIGNAL HEAD SECTIONS SHALL BE 12" LED.



HEADS 2,4,6,8 | HEADS 1,3,5,7 | HEADS 4A,6A | HEADS P2,P4,P6

ALL SIGNALS SHALL BE EQUIPPED WITH POLYCARBONATE RETROREFLECTIVE HIGH VISIBILITY BACK PLATES

- CCTV CAMERA ON MAST ARM ON 6' GOOSENECK POLE
- DIRECTIONAL RADIO EQUIPMENT

Street Name Signs

S-5 (13'-6" x 2'-0")
Centreville Rd
R-3" (TYP)
12" (TYP)
CLEARVIEW 5-W

S-6 (10'-0" x 2'-0")
Machen Rd
R-3" (TYP)
12" (TYP)
CLEARVIEW 5-W

S-7 (8'-6" x 1'-6")
Centreville Rd
R-2.25" (TYP)
8" (TYP)
CLEARVIEW 5-W

SIGNS ARE TO HAVE BLUE BACKGROUND WITH WHITE LEGEND AND BORDER.

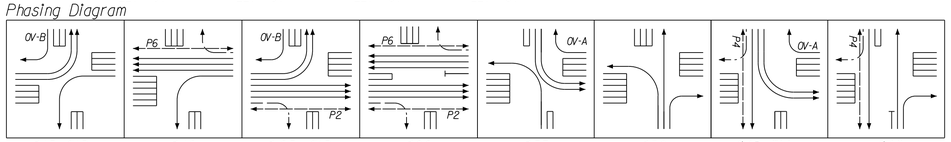
Signs

S-1: ONLY — R3-5L, 30" x 36"
S-2: ONLY — R3-5R, 30" x 36"

Preemption Phasing Diagram (If Utilized)

Ø 1-6 PREEMPTION | Ø 2-5 PREEMPTION | Ø 3-8 PREEMPTION | Ø 4-7 PREEMPTION

Phasing Diagram



Ø 1-5 · OV-B | Ø 1-6 | Ø 2-5 · OV-B | Ø 2-6 | Ø 3-7 | Ø 3-8 | Ø 4-7 · OV-A | Ø 4-8

Pole Locations

A	STA 209+42 (RTE.28 SB)	66' LT	6	STA 208+74 (RTE.28 NB)	34' RT
1	STA 207+63 (RTE.28 SB)	32' LT	7	STA 208+44 (RTE.28 NB)	51' RT
2	STA 207+69 (RTE.28 SB)	48' LT	8	STA 207+44 (RTE.28 NB)	59' RT
3	STA 207+95 (RTE.28 SB)	46' LT	9	STA 207+44 (RTE.28 NB)	44' RT
4	STA 209+28 (RTE.28 SB)	74' LT	10	STA 207+19 (RTE.28 NB)	44' RT
5	STA 209+32 (RTE.28 SB)	50' LT			

Initial Timing Chart

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	SB LT ROUTE 28	NB TH ROUTE 28	WB LT ROUTE 5401	EB TH ROUTE 5401	NB LT ROUTE 28	SB TH ROUTE 28	EB LT ROUTE 5401	WB TH ROUTE 5401
PHASE ON	x	x	x	x	x	x	x	x
PHASE OFF								
INTERVAL	PHASE TIMINGS							
MIN GR	7.0	20.0	7.0	10.0	7.0	20.0	7.0	10.0
PASSAGE	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
AMBER	3.9	4.8	3.0	3.0	3.9	4.8	3.0	3.8
RED	4.7	1.2	4.1	3.4	5.7	1.0	5.5	2.7
MAX 1	30.0	90.0	30.0	40.0	30.0	90.0	30.0	40.0
MAX 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MIN GAP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIME BEFORE REDUCTION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIME TO REDUCE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEADING PED WALK	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0
PED WALK		7.0		9.0		8.0		
PED CLEARANCE		17.0		38.0		29.0		
MODE	NL	MIN RECALL	NL	NL	NL	MIN RECALL	NL	NL

SCALE	PROJECT	SHEET NO.
0 25' 50'	0028-029-269	37(2)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SIGNALIZATION PLAN

Centreville Rd (Rte 28) & New Braddock Rd (Rte 8350/7783)

Pole Locations

A	STA 198+21 (RTE.28 NB)	54' RT	8	STA 198+09 (RTE.28 NB)	51' RT
1	STA 195+73 (RTE.28 SB)	44' LT	9	STA 196+54 (RTE.28 NB)	74' RT
2	STA 195+93 (RTE.28 SB)	60' LT	10	STA 196+22 (RTE.28 NB)	45' RT
3	STA 197+76 (RTE.28 SB)	66' LT	11	STA 195+48 (RTE.28 NB)	44' LT
4	STA 198+29 (RTE.28 SB)	44' LT	12	STA 197+98 (RTE.28 NB)	88' RT
5	STA 197+89 (RTE.28 NB)	41' LT	13	STA 197+96 (RTE.28 NB)	20' LT
6	STA 198+20 (RTE.28 NB)	32' RT			
7	STA 198+23 (RTE.28 NB)	48' RT			

Signals

ALL TRAFFIC SIGNAL HEAD SECTIONS SHALL BE 12" LED.

HEADS 2,3,4,6 | HEADS 1,3B,4B,5 | HEADS 3A,4A | HEADS P2,P3,P6

ALL SIGNALS SHALL BE EQUIPPED WITH POLYCARBONATE RETROREFLECTIVE HIGH VISIBILITY BACK PLATES

- CCTV CAMERA ON MAST ARM ON 6' GOOSENECK POLE
- DIRECTIONAL RADIO EQUIPMENT

Cable & Conduit Runs

- A: 1-1" METAL CONDUIT
- B: 2-1" METAL CONDUITS
- C: 3-1" METAL CONDUITS
- D: 5-1" METAL CONDUITS
- E: 6-1" METAL CONDUITS
- F: 1-3" CONDUIT 3-14/2C(S) FOR DETECTORS
- G: 1-3" CONDUIT 1-14/2C FOR PED PB 1-14/7C FOR PED HEAD P6 1-14/7C FOR HEAD 4A 1-#6 AWG EGC
- H: 1-3" CONDUIT 2-14/7C FOR HEADS 1,6 1-#6 AWG EGC
  1-2" CONDUIT 1-CABLE FOR PREEMPTION ✕ 1-#6 AWG EGC
- I: 1-4" BORED CONDUIT 1-14/2C FOR PED PB 1-14/7C FOR PED HEAD P6 2-14/7C FOR HEADS 1,6 1-14/7C FOR HEAD 4A 5-14/2C(S) FOR DETECTORS 1-#6 AWG EGC
- J: 1-3" CONDUIT 1-14/2C FOR PED PB 1-14/7C FOR PED HEAD P6 4-14/7C FOR HEADS 3,3A,3B,4B 1-CAT6 (S) OUTDOOR NETWORK CABLE (CCTV) 1-#6 AWG EGC
- K: 1-3" CONDUIT 2-14/2C FOR PED PB'S 2-14/7C FOR PED HEADS P6 2-14/7C FOR HEADS 1,6 1-14/7C FOR HEAD 4A 4-14/7C FOR HEADS 3,3A,3B,4B 5-14/2C(S) FOR DETECTORS 1-CAT6 (S) OUTDOOR NETWORK CABLE (RADIO) 1-#6 AWG EGC
- L: 1-3" CONDUIT 1-14/2C FOR PED PB 1-14/7C FOR PED HEAD P3 1-14/7C FOR HEAD 6 1-#6 AWG EGC
- M: 1-4" BORED CONDUIT 3-14/2C FOR PED PB'S 3-14/7C FOR PED HEADS P3,P6 2-14/7C FOR HEADS 1,6 1-14/7C FOR HEAD 4A 4-14/7C FOR HEADS 3,3A,3B,4B 1-14/7C FOR HEAD 6 9-14/2C(S) FOR DETECTORS 1-CAT6 (S) OUTDOOR NETWORK CABLE (RADIO) 1-#6 AWG EGC
- N: 1-3" CONDUIT 1-14/2C FOR PED PB 1-14/7C FOR PED HEAD P3 1-14/7C FOR HEAD 1 1-#6 AWG EGC
- O: 1-4" BORED CONDUIT 5-14/2C FOR PED PB'S 5-14/7C FOR PED HEADS P3,P6 2-14/7C FOR HEADS 1,6 1-14/7C FOR HEAD 4A 4-14/7C FOR HEADS 3,3A,3B,4B 1-14/7C FOR HEAD 6 1-14/7C FOR HEAD 1 11-14/2C(S) FOR DETECTORS 1-CAT6 (S) OUTDOOR NETWORK CABLE (RADIO) 1-#6 AWG EGC
- P: 1-3" CONDUIT 1-14/7C FOR HEAD 5 1-#6 AWG EGC
- R: 1-4" BORED CONDUIT 1-14/7C FOR HEAD 5 2-14/2C(S) FOR DETECTORS 1-#6 AWG EGC
- S: 1-3" CONDUIT 1-14/7C FOR HEAD 5 6-14/2C(S) FOR DETECTORS 1-#6 AWG EGC
- T: 1-3" CONDUIT 1-14/2C FOR PED PB 1-14/7C FOR PED HEAD P2 1-14/7C FOR HEAD 2 1-#6 AWG EGC
- U: 1-3" CONDUIT 4-14/7C FOR HEADS 3B,4,4A,4B 1-#6 AWG EGC
- V: 1-4" BORED CONDUIT 1-14/2C FOR PED PB 1-14/7C FOR PED HEAD P2 1-14/7C FOR HEAD 5 1-14/7C FOR HEAD 2 4-14/7C FOR HEADS 3B,4,4A,4B 6-14/2C(S) FOR DETECTORS 1-#6 AWG EGC
- W: 1-3" CONDUIT 1-14/7C FOR HEAD 3A 1-#6 AWG EGC
- X: 1-3" CONDUIT 1-14/7C FOR HEAD 3A 6-14/2C(S) FOR DETECTORS 1-#6 AWG EGC
- Y: 1-3" CONDUIT 1-14/2C FOR PED PB 1-14/7C FOR PED HEAD P2 1-#6 AWG EGC
- Z: 1-3" CONDUIT 1-14/2C FOR PED PB 1-14/7C FOR PED HEAD P3 1-#6 AWG EGC
- AA: 1-3" CONDUIT 1-14/7C FOR HEADS 2,5 1-CAT6 (S) OUTDOOR NETWORK CABLE (CCTV) 1-#6 AWG EGC
- BB: 1-4" CONDUIT 8-14/2C FOR PED PB'S 8-14/7C FOR PED HEADS P2,P3,P6 2-14/7C FOR HEADS 1,6 1-14/7C FOR HEAD 4A 4-14/7C FOR HEADS 3,3A,3B,4B 1-14/7C FOR HEAD 6 1-14/7C FOR HEAD 1 1-14/7C FOR HEAD 5 1-14/7C FOR HEAD 2 4-14/7C FOR HEADS 3B,4,4A,4B 1-14/7C FOR HEAD 3A 2-14/7C FOR HEADS 2,5 1-#6 AWG EGC
  1-4" CONDUIT 2-CAT6 (S) OUTDOOR NETWORK CABLES (RADIO) 23-14/2C(S) FOR DETECTORS 1-#6 AWG EGC
  1-3" CONDUIT (EMPTY)
- CC: 1-1" METAL CONDUIT 1-#6 AWG EGC FOR COMMUNICATIONS — EGC = ELECTRICAL GROUNDING CONDUCTOR (S) = SHIELDED CABLE
- DD: 1-1 1/4" METAL CONDUIT 3-#6 AWG EGC FOR ELECTRICAL SERVICE
- EE: 1-1" CONDUIT 1-#6 AWG EGC FOR SYSTEM GROUNDING
- FF: 1-2" CONDUIT (EMPTY) FOR ELECTRICAL SERVICES
- GG: 1-3" CONDUIT 1-14/2C FOR PED PB 1-14/7C FOR PED HEAD P3 1-#6 AWG EGC

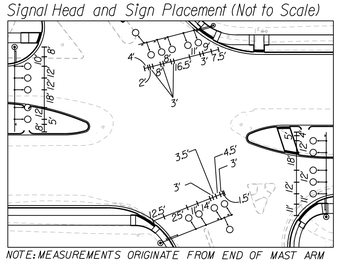
Street Name Signs

S-5 (13'-6" x 2'-0") — Centreville Rd — R-3" (TYP) 12" (TYP) CLEARVIEW 5-W

S-6 (13'-0" x 2'-0") — New Braddock Rd — R-3" (TYP) 10" (TYP) CLEARVIEW 5-W

SIGNS ARE TO HAVE BLUE BACKGROUND WITH WHITE LEGEND AND BORDER.

Signal Head and Sign Placement (Not to Scale)



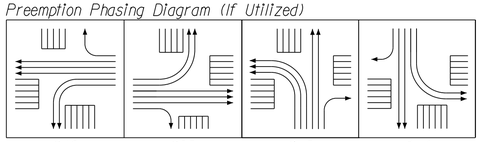
NOTE: MEASUREMENTS ORIGINATE FROM END OF MAST ARM

Color Sequence Chart

SIGNAL	PHASE 1	2	3	4	5	6	COMBINATION 1-5	1-6	2-5	2-6	FLASH
1	G						G	G			R
2		G							G	G	Y
3			G								R
3A			G				R	R			R
3B			G								R
4				G							R
4A				G			R		R		R
4B				G							R
5					G		G		G		R
6						G		G		G	Y
P2 (APS)*		W							W	W	BLNK
P3 (APS)*			W								BLNK
P6 (APS)*						W		W		W	BLNK

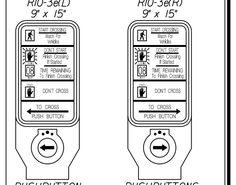
Notes:
1. Blank spaces denote red indications. Walk indication displayed after pedestrian call serviced. Otherwise "Don't Walk" will be displayed.
2. See Accessible Pedestrian System (APS) Pushbuttons detail.

Preemption Phasing Diagram (If Utilized)



Signs

Accessible Pedestrian System (APS) Pushbuttons



PUSHBUTTON PB3, PB3, PB6 | PUSHBUTTONS PB2, PB2, PB3, PB3, PB6

PUSH BUTTONS PB2, PB3, AND PB6 SHALL HAVE A PERCUSSIVE TONE WALK INDICATION.

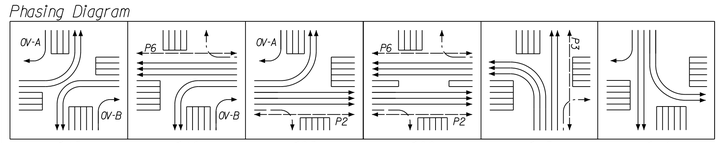
PUSH BUTTONS PB2 AND PB6 SHALL HAVE THE FOLLOWING MESSAGE FOR WAIT, "WAIT TO CROSS NEW BRADDOCK RD AT CENTREVILLE ROAD."

PUSH BUTTONS PB3 SHALL HAVE THE FOLLOWING MESSAGE FOR WAIT, "WAIT TO CROSS CENTREVILLE ROAD AT NEW BRADDOCK RD."

Initial Timing Chart

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	SB LT ROUTE 28	NB TH ROUTE 28	WB LTR ROUTE 7783	EB LTR ROUTE 8350	NB LT ROUTE 28	SB TH ROUTE 28		
PHASE ON	x	x	x	x	x	x		
PHASE OFF							x	x
INTERVAL	PHASE TIMINGS							
MIN GR	7.0	20.0	10.0	10.0	7.0	20.0		
PASSAGE	3.0	3.0	3.0	3.0	3.0	3.0		
AMBER	4.0	4.9	5.2	4.5	4.0	4.9		
RED	5.7	1.7	8.9	9.2	4.9	2.4		
MAX 1	30.0	90.0	40.0	40.0	30.0	90.0		
MAX 2	0.0	0.0	0.0	0.0	0.0	0.0		
MIN GAP	0.0	0.0	0.0	0.0	0.0	0.0		
TIME BEFORE REDUCTION	0.0	0.0	0.0	0.0	0.0	0.0		
TIME TO REDUCE	0.0	0.0	0.0	0.0	0.0	0.0		
LEADING PED WALK	0.0	0.0	0.0	0.0	0.0	0.0		
PED WALK		10.0	10.0			10.0		
PED CLEARANCE		39.0	43.0			43.0		
MODE	NL	MIN RECALL	NL	NL	NL	MIN RECALL		

Phasing Diagram



GERARD MRYKALO
Lic. No. 047293
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	37(3)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

SCALE 0 25' 50'

PROJECT	SHEET NO.
0028-029-269	37(3)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SIGNALIZATION PLAN

Centreville Rd (Rte 28) & Old Mill Rd (Rte 8591)/Green Trails Blvd (Rte 8024)

Cable & Conduit Runs

- (A) 1-1" METAL CONDUIT
- (B) 2-1" METAL CONDUITS
- (C) 3-1" METAL CONDUITS
- (D) 1-3" CONDUIT
  3-14/2C(S) FOR DETECTORS
- (E) 1-3" CONDUIT
  4-14/2C(S) FOR DETECTORS
- (F) 1-3" CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEAD P8
  1-#6 AWG EGC
- (G) 1-3" CONDUIT
  3-14/7C FOR HEADS 3,7,8
  1-#6 AWG EGC
- (H) 1-3" CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEAD P6
  1-#6 AWG EGC
- (I) 1-3" CONDUIT
  2-14/7C FOR HEADS 1,6
  1-#6 AWG EGC
- (J) 1-3" CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEAD P6
  1-14/7C FOR HEAD 4
  1-#6 AWG EGC
- (K) 1-4" BORED CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEAD P6
  2-14/7C FOR HEADS 1,6
  1-14/7C FOR HEAD 4
  3-14/2C(S) FOR DETECTORS
  1-#6 AWG EGC
- (L) 1-4" BORED CONDUIT
  3-14/2C FOR PED PB'S
  3-14/7C FOR PED HEADS P6,P8
  2-14/7C FOR HEADS 1,6
  1-14/7C FOR HEAD 4
  3-14/7C FOR HEADS 3,7,8
  7-14/2C(S) FOR DETECTORS
  1-#6 AWG EGC
- (M) 1-4" BORED CONDUIT
  3-14/2C FOR PED PB'S
  3-14/7C FOR PED HEADS P6,P8
  2-14/7C FOR HEADS 1,6
  1-14/7C FOR HEAD 4
  3-14/7C FOR HEADS 3,7,8
  8-14/2C(S) FOR DETECTORS
  1-#6 AWG EGC
- (N) 1-3" CONDUIT
  2-14/7C FOR HEADS 2,5
  1-CAT6 (S) OUTDOOR NETWORK CABLE (CCTV)
  1-CAT6 (S) OUTDOOR NETWORK CABLE (RADIO)
  1-#6 AWG EGC
- (O) 1-3" CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEAD P2
  1-14/7C FOR HEAD 8
  1-#6 AWG EGC
- (P) 1-3" CONDUIT
  5-14/2C(S) FOR DETECTORS
- (R) 1-3" CONDUIT
  3-14/7C FOR HEADS 3,4,7
  1-#6 AWG EGC
- (S) 1-3" CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEAD P2
  1-#6 AWG EGC
- (T) 1-4" BORED CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEAD P2
  3-14/7C FOR HEADS 3,4,7
  5-14/2C(S) FOR DETECTORS
  1-#6 AWG EGC
- (V) 1-3" CONDUIT
  5-14/2C FOR PED PB'S
  5-14/7C FOR PED HEADS P2,P6,P8
  2-14/7C FOR HEADS 1,6
  1-14/7C FOR HEAD 4
  3-14/7C FOR HEADS 3,7,8
  1-14/7C FOR HEAD 8
  8-14/2C(S) FOR DETECTORS
  1-CAT6 (S) OUTDOOR NETWORK CABLE (CCTV)
  1-CAT6 (S) OUTDOOR NETWORK CABLE (RADIO)
  1-#6 AWG EGC
- (W) 1-4" CONDUIT
  6-14/2C FOR PED PB'S
  6-14/7C FOR PED HEADS P2,P6,P8
  2-14/7C FOR HEADS 1,6
  1-14/7C FOR HEAD 4
  3-14/7C FOR HEADS 3,7,8
  2-14/7C FOR HEADS 2,5
  1-14/7C FOR HEAD 8
  3-14/7C FOR HEADS 3,4,7
  1-#6 AWG EGC

  1-4" CONDUIT
  1-CAT6 (S) OUTDOOR NETWORK CABLE (CCTV)
  1-CAT6 (S) OUTDOOR NETWORK CABLE (RADIO)
  16-14/2C(S) FOR DETECTORS
  1-#6 AWG EGC

  1-3" CONDUIT (EMPTY)
- (X) 1-1 1/4" METAL CONDUIT
  3-#6 AWG
  FOR ELECTRICAL SERVICE
- (Y) 1-1" METAL CONDUIT
  1-#6 AWG EGC
  FOR COMMUNICATIONS
- (Z) 1-1" CONDUIT
  1-#6 AWG EGC
  FOR SYSTEM GROUNDING
- (AA) 1-2" CONDUIT
  (EMPTY)
  FOR ELECTRICAL SERVICE

EGC = ELECTRICAL GROUNDING CONDUCTOR
(S) = SHIELDED CABLE

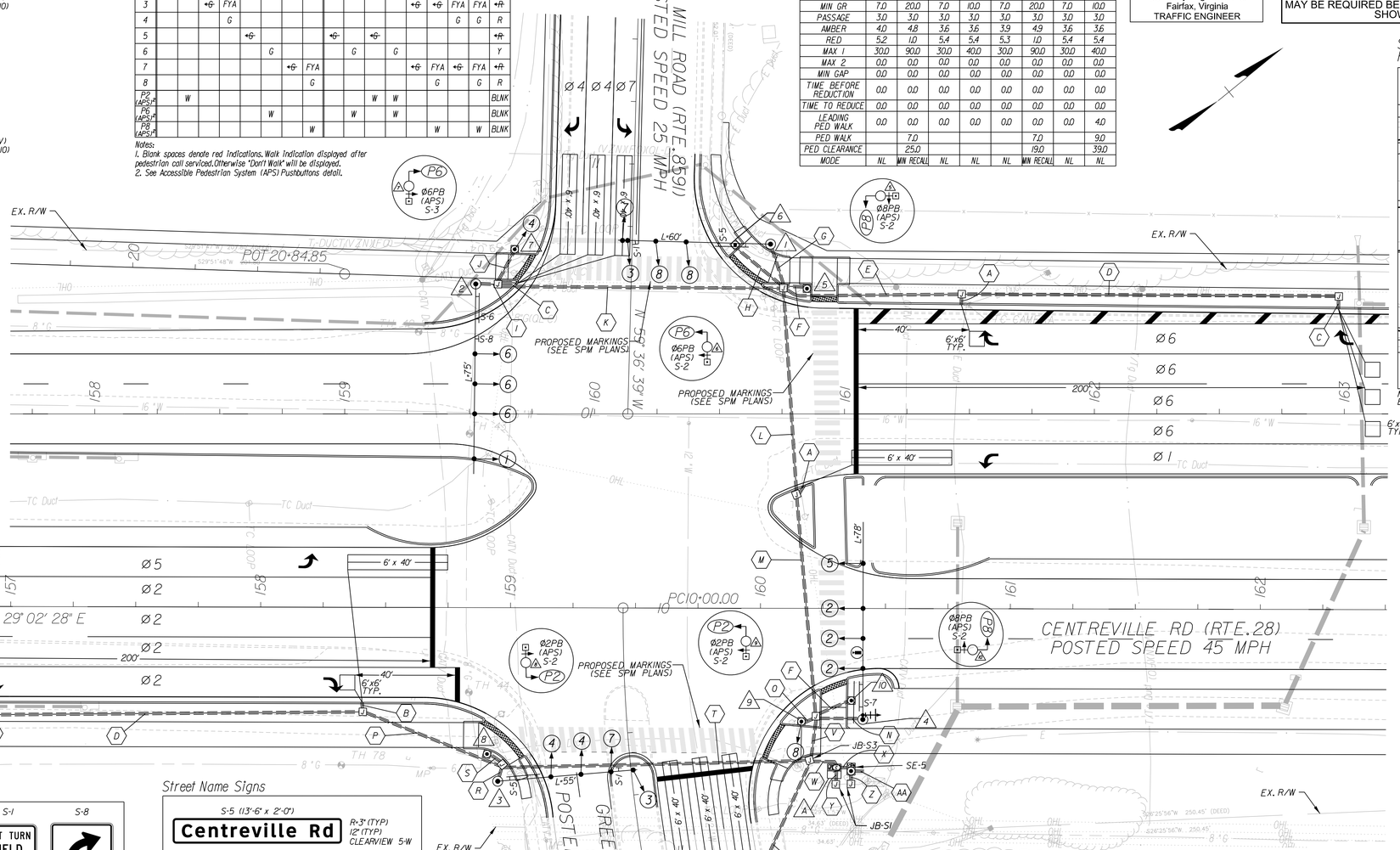
Color Sequence Chart

SIGNAL	PHASE 1	2	3	4	5	6	7	8	COMBINATION 1-5	1-6	2-5	2-6	3-7	3-8	4-7	4-8	FLASH
1	~~G~~								~~G~~	~~G~~							~~R~~
2		G									G	G					Y
3			~~G~~	FYA									~~G~~	~~G~~	FYA	FYA	~~R~~
4				G											G	G	R
5					~~G~~				~~G~~		~~G~~						~~R~~
6						G				G		G					Y
7							~~G~~	FYA					~~G~~	FYA	~~G~~	FYA	~~R~~
8								G						G		G	R
P2 (APS)*		W									W	W					BLNK
P6 (APS)*						W				W		W					BLNK
P8 (APS)*								W						W		W	BLNK

Notes:
1. Blank spaces denote red indications. Walk indication displayed after pedestrian call serviced. Otherwise "Don't Walk" will be displayed.
2. See Accessible Pedestrian System (APS) Pushbuttons detail.

Initial Timing Chart

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	SB LT ROUTE 28	NB TH ROUTE 28	WB LT GREEN TRAILS	EB TH OLD MILL ROAD	NB LT ROUTE 28	SB TH ROUTE 28	EB LT OLD MILL ROAD	WB TH GREEN TRAILS
PHASE ON	X	X	X	X	X	X	X	X
PHASE OFF								
INTERVAL	PHASE TIMINGS							
MIN GR	7.0	20.0	7.0	10.0	7.0	20.0	7.0	10.0
PASSAGE	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
AMBER	4.0	4.8	3.6	3.6	3.9	4.9	3.6	3.6
RED	5.2	1.0	5.4	5.4	5.3	1.0	5.4	5.4
MAX 1	30.0	90.0	30.0	40.0	30.0	90.0	30.0	40.0
MAX 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MIN GAP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIME BEFORE REDUCTION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIME TO REDUCE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEADING PED WALK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
PED WALK		7.0				7.0		9.0
PED CLEARANCE		25.0				19.0		39.0
MODE	NL	MIN RECALL	NL	NL	NL	MIN RECALL	NL	NL



Signs

S-1 LEFT TURN YIELD ON FLASHING YELLOW ARROW — R10-V1, 36" x 42"

S-8 ONLY — R3-5R, 30" x 36"

Street Name Signs

S-5 (13'-6" x 2'-0"): Centreville Rd — R-3" (TYP), 12" (TYP) CLEARVIEW 5-W

S-6 (12'-0" x 2'-6"): ← Green Trails Blvd / Old Mill Rd → — R-3" (TYP), 8" (TYP) CLEARVIEW 5-W

S-7 (12'-0" x 2'-6"): ← Old Mill Rd / Green Trails Blvd → — R-3" (TYP), 8" (TYP) CLEARVIEW 5-W

SIGNS ARE TO HAVE BLUE BACKGROUND WITH WHITE LEGEND AND BORDER.

Signals

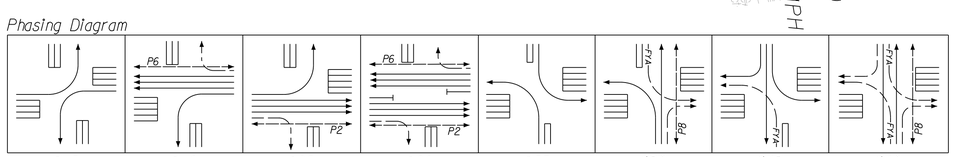
ALL TRAFFIC SIGNAL HEAD SECTIONS SHALL BE 12" LED.

HEADS 2,4,6,8 | HEADS 1,5 | HEADS 3,7 | HEADS P2,P6,P8

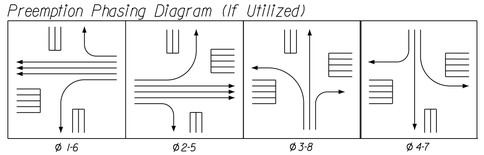
ALL SIGNALS SHALL BE EQUIPPED WITH POLYCARBONATE RETROREFLECTIVE HIGH VISIBILITY BACK PLATES

- CCTV CAMERA ON MAST ARM ON 6' GOOSENECK POLE
- DIRECTIONAL RADIO EQUIPMENT

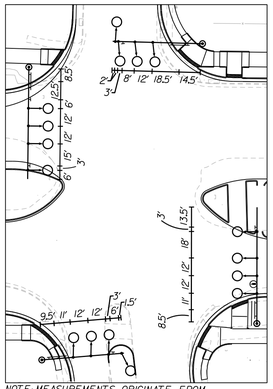
Phasing Diagram



Preemption Phasing Diagram (If Utilized)



Signal Head and Sign Placement (Not to Scale)



NOTE: MEASUREMENTS ORIGINATE FROM END OF MAST ARM

Pole Locations

A	STA 160+30 (RTE 28 NB)	64' RT
1	STA 160+70 (RTE 28 SB)	68' LT
2	STA 159+52 (RTE 28 SB)	52' LT
3	STA 158+95 (RTE 28 NB)	69' RT
4	STA 160+41 (RTE 28 NB)	44' RT
5	STA 160+85 (RTE 28 SB)	50' LT
6	STA 160+56 (RTE 28 SB)	68' LT
7	STA 159+68 (RTE 28 SB)	66' LT
8	STA 158+91 (RTE 28 NB)	59' RT
9	STA 160+16 (RTE 28 NB)	45' RT
10	STA 160+36 (RTE 28 NB)	37' RT

Accessible Pedestrian System (APS) Pushbuttons

S-2 R10-3e(L) 9" x 15" — PUSHBUTTONS PB2, P2, P6, P6B, P8, P8B

S-3 R10-3e(R) 9" x 15" — PUSHBUTTONS P6B

PUSH BUTTONS PB2, PB6, AND PB8 SHALL HAVE A PERCUSSIVE TONE WALK INDICATION.

PUSH BUTTONS PB2 SHALL HAVE THE FOLLOWING MESSAGE FOR WAIT, WAIT TO CROSS GREEN TRAILS AT CENTREVILLE ROAD".

PUSH BUTTONS PB8 SHALL HAVE THE FOLLOWING MESSAGE FOR WAIT, WAIT TO CROSS CENTREVILLE ROAD AT OLD MILL/GREEN TRAILS".

PUSH BUTTONS PB6 SHALL HAVE THE FOLLOWING MESSAGE FOR WAIT, WAIT TO CROSS OLD MILL AT CENTREVILLE ROAD".

GERARD MRYKALO
Lic. No. 047293
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
-	VA.	28	0028-029-269 P101 R201 C501	37(4)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

SCALE	PROJECT	SHEET NO.
0 25' 50'	0028-029-269	37(4)

PROJECT DESIGN MANAGER: Mr. Erik Dull, PE (Dewberry) - (703) 208-1757
SURVEYED BY: Quantum Spatial - (703) 471-4510, 06/20
DESIGNED BY: Dewberry Engineers Inc. - (703) 208-1757
SUBSURFACE UTILITY BY: SAM, LLC - (703) 361-6005, 07/20

SIGNALIZATION PLAN

Centreville Rd (Rte 28) & Compton Rd (Rte 658)

COMMONWEALTH OF VIRGINIA
GERARD MRYKALO
Lic. No. 047293
PROFESSIONAL ENGINEER

Dewberry Engineers Inc.
Fairfax, Virginia
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-	VA.	28	0028-029-269 P101 R201 C501	37(5)

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ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

Cable & Conduit Runs

- (A) 1-1" METAL CONDUIT
- (B) 3-1" METAL CONDUITS
- (C) 4-1" METAL CONDUITS
- (D) 1-3" CONDUIT
  3-14/2C(S) FOR DETECTORS
- (E) 1-3" CONDUIT
  4-14/2C(S) FOR DETECTORS
- (F) 1-4" BORED CONDUIT
  4-14/2C(S) FOR DETECTORS
- (G) 1-3" CONDUIT
  5-14/2C(S) FOR DETECTORS
- (H) 1-3" CONDUIT
  2-14/7C FOR HEADS 1,6
  1-#6 AWG EGC
- (I) 1-3" CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEAD P4
  1-#6 AWG EGC
- (J) 1-3" CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEAD P4
  2-14/7C FOR HEADS 1,6
  1-#6 AWG EGC
- (K) 1-3" CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEADS P6
  1-14/7C FOR HEAD 3A
  1-#6 AWG EGC
- (L) 1-4" BORED CONDUIT
  2-14/2C FOR PED PB'S
  2-14/7C FOR PED HEADS P4,P6
  2-14/7C FOR HEADS 1,6
  1-14/7C FOR HEAD 3A
  4-14/2C(S) FOR DETECTORS
  1-#6 AWG EGC
- (M) 1-3" CONDUIT
  1-14/7C FOR HEAD 4A
  1-#6 AWG EGC
- (N) 1-4" BORED CONDUIT
  1-14/7C FOR HEAD 4A
  1-#6 AWG EGC
- (O) 1-3" CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEAD P6
  1-14/7C FOR HEAD 3
  1-14/7C FOR HEAD 4A
  1-#6 AWG EGC
- (P) 1-4" BORED CONDUIT
  3-14/2C FOR PED PB'S
  3-14/7C FOR PED HEADS P4,P6
  2-14/7C FOR HEADS 1,6
  1-14/7C FOR HEAD 3A
  1-14/7C FOR HEAD 3
  1-14/7C FOR HEAD 4A
  9-14/2C(S) FOR DETECTORS
  1-#6 AWG EGC
- (R) 1-3" CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEAD P2
  3-14/7C FOR HEADS 3,3A,4,4A
  1-#6 AWG EGC
- (S) 1-4" BORED CONDUIT
  2-14/2C FOR PED PB'S
  2-14/7C FOR PED HEADS P2,P4
  3-14/7C FOR HEADS 3,3A,4,4A
  5-14/2C(S) FOR DETECTORS
  1-#6 AWG EGC
- (T) 1-3" CONDUIT
  5-14/2C FOR PED PB'S
  5-14/7C FOR PED HEADS P2,P4,P6
  2-14/7C FOR HEADS 1,6
  1-14/7C FOR HEAD 3A
  1-14/7C FOR HEAD 3
  1-14/7C FOR HEAD 4A
  3-14/7C FOR HEADS 3,3A,4,4A
  17-14/2C(S) FOR DETECTORS
  1-#6 AWG EGC
- (U) 1-3" CONDUIT
  1-14/2C FOR PED PB
  1-14/7C FOR PED HEAD P6
  2-14/7C FOR HEADS 2,5
  1-CAT6 (S) OUTDOOR NETWORK CABLE (CCTV)
  1-#6 AWG EGC
- (V) 1-4" CONDUIT
  6-14/2C FOR PED PB'S
  6-14/7C FOR PED HEADS P2,P4,P6
  2-14/7C FOR HEADS 1,6
  1-14/7C FOR HEAD 3A
  1-14/7C FOR HEAD 3
  1-14/7C FOR HEAD 4A
  3-14/7C FOR HEADS 3,3A,4,4A
  2-14/7C FOR HEADS 2,5
  1-#6 AWG EGC

  1-4" CONDUIT
  1-CAT6 (S) OUTDOOR NETWORK CABLE (CCTV)
  17-14/2C(S) FOR DETECTORS
  1-#6 AWG EGC

  1-3" CONDUIT (EMPTY)
- (W) 1-1" METAL CONDUIT
  1-#6 AWG EGC
  FOR COMMUNICATIONS
- (X) 1-1¼" METAL CONDUIT
  3-#6 AWG EGC
  FOR ELECTRICAL SERVICE
- (Y) 1-1" CONDUIT
  1-#6 AWG EGC
  FOR SYSTEM GROUNDING
- (Z) 1-2" CONDUIT
  (EMPTY)
  FOR ELECTRICAL SERVICES
- (AA) 1-2" CONDUIT
  WITH PULL ROPE
  RATED AT 1100 LBS

EGC - ELECTRICAL GROUNDING CONDUCTOR
(S) - SHIELDED CABLE

Pole Locations

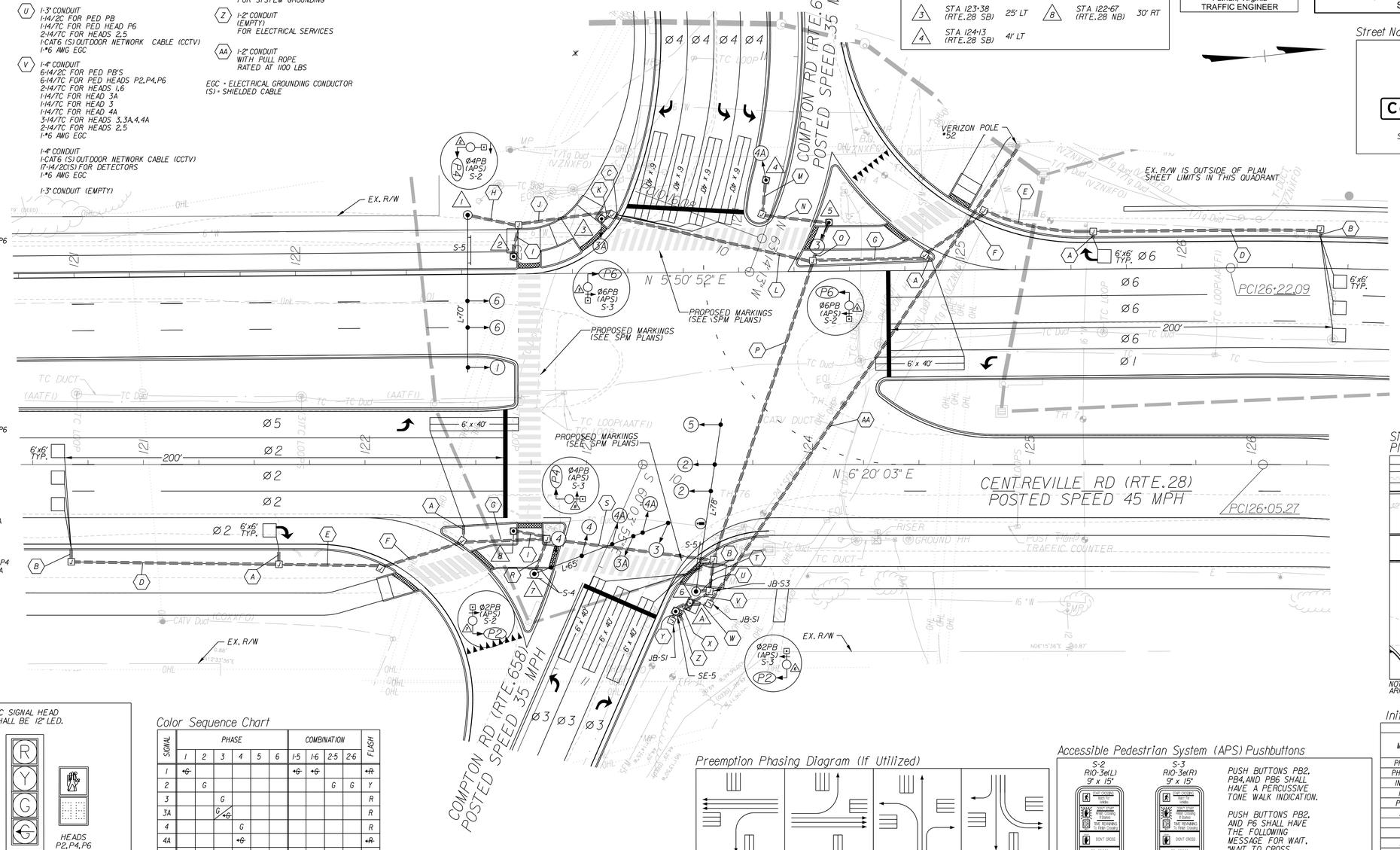
A	STA 123+47 (RTE.28 NB)	62' RT	5	STA 124+41 (RTE.28 SB)	22' LT
1	STA 122+78 (RTE.28 SB)	27' LT	6	STA 123+49 (RTE.28 NB)	57' RT
2	STA 122+98 (RTE.28 SB)	8' LT	7	STA 122+76 (RTE.28 NB)	49' RT
3	STA 123+38 (RTE.28 SB)	25' LT	8	STA 122+67 (RTE.28 NB)	30' RT
4	STA 124+13 (RTE.28 SB)	41' LT			

Street Name Signs

S-4 (7'-0" x 1'-6")
Centreville Rd
R=2.25" (TYP)
7" (TYP)
CLEARVIEW 5-W-R

S-5 (11'-0" x 2'-0")
Compton Rd
R=3" (TYP)
12" (TYP)
CLEARVIEW 5-W

SIGNS ARE TO HAVE BLUE BACKGROUND WITH WHITE LEGEND AND BORDER.



Signals

ALL TRAFFIC SIGNAL HEAD SECTIONS SHALL BE 12" LED.

HEADS 2,3,4,6 — HEADS 1,4A,5 — HEAD 3A — HEADS P2,P4,P6

ALL SIGNALS SHALL BE EQUIPPED WITH POLYCARBONATE RETROREFLECTIVE HIGH VISIBILITY BACK PLATES

- CCTV CAMERA ON MAST ARM ON 6' GOOSENECK POLE

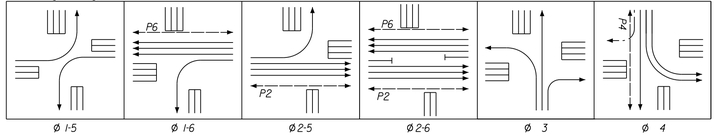
Color Sequence Chart

SIGNAL	PHASE 1	2	3	4	5	6	COMBINATION 1-5	1-6	2-5	2-6	FLASH
1	~~G~~						~~G~~	~~G~~			~~R~~
2		G							G	G	Y
3			G								R
3A			~~G~~	~~G~~							R
4				G							R
4A				~~G~~							~~R~~
5					~~G~~		~~G~~		~~G~~		~~R~~
6						G		G		G	Y
P2 (APS)*		W							W	W	BLNK
P4 (APS)*				W							BLNK
P6 (APS)*						W		W		W	BLNK

Notes:
1. Blank spaces denote red indications. Walk indication displayed after pedestrian call serviced. Otherwise "Don't Walk" will be displayed.
2. See Accessible Pedestrian System (APS) Pushbuttons detail.

Preemption Phasing Diagram (If Utilized)

Phasing Diagram



Accessible Pedestrian System (APS) Pushbuttons

S-2 R10-3e(L) 9" x 15"
S-3 R10-3e(R) 9" x 15"

PUSHBUTTON PB2, PB4, PB6

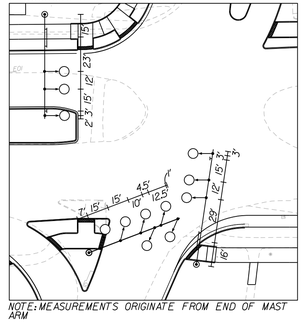
PUSHBUTTONS PB2, PB4, PB6

PUSH BUTTONS PB2, PB4, AND PB6 SHALL HAVE A PERCUSSIVE TONE WALK INDICATION.

PUSH BUTTONS PB2, AND P6 SHALL HAVE THE FOLLOWING MESSAGE FOR WAIT, "WAIT TO CROSS COMPTON AT CENTREVILLE ROAD".

PUSH BUTTONS PB4 SHALL HAVE THE FOLLOWING MESSAGE FOR WAIT, "WAIT TO CROSS CENTREVILLE ROAD AT COMPTON".

Signal Head and Sign Placement (Not to Scale)



NOTE: MEASUREMENTS ORIGINATE FROM END OF MAST ARM

Initial Timing Chart

PHASE	1	2	3	4	5	6
MOVEMENT	SB LT ROUTE 28	NB TH ROUTE 28	WB LTR ROUTE 658	EB LTR ROUTE 658	NB LT ROUTE 28	SB TH ROUTE 28
PHASE ON	x	x	x	x	x	x
PHASE OFF						
INTERVAL	PHASE TIMINGS					
MIN GR	7.0	20.0	7.0	7.0	7.0	20.0
PASSAGE	3.0	3.0	3.0	3.0	3.0	3.0
AMBER	4.4	4.7	3.8	4.0	3.8	5.4
RED	5.0	1.0	4.2	3.8	4.7	1.1
MAX 1	30.0	90.0	40.0	40.0	30.0	90.0
MAX 2	0.0	0.0	0.0	0.0	0.0	0.0
MIN GAP	0.0	0.0	0.0	0.0	0.0	0.0
TIME BEFORE REDUCTION	0.0	0.0	0.0	0.0	0.0	0.0
TIME TO REDUCE	0.0	0.0	0.0	0.0	0.0	0.0
LEADING PED WALK	0.0	0.0	0.0	0.0	0.0	0.0
PED WALK		7.0		8.0		7.0
PED CLEARANCE		12.0		28.0		22.0
MODE	NL	MIN RECALL	NL	NL	NL	MIN RECALL

SCALE 0 25' 50'

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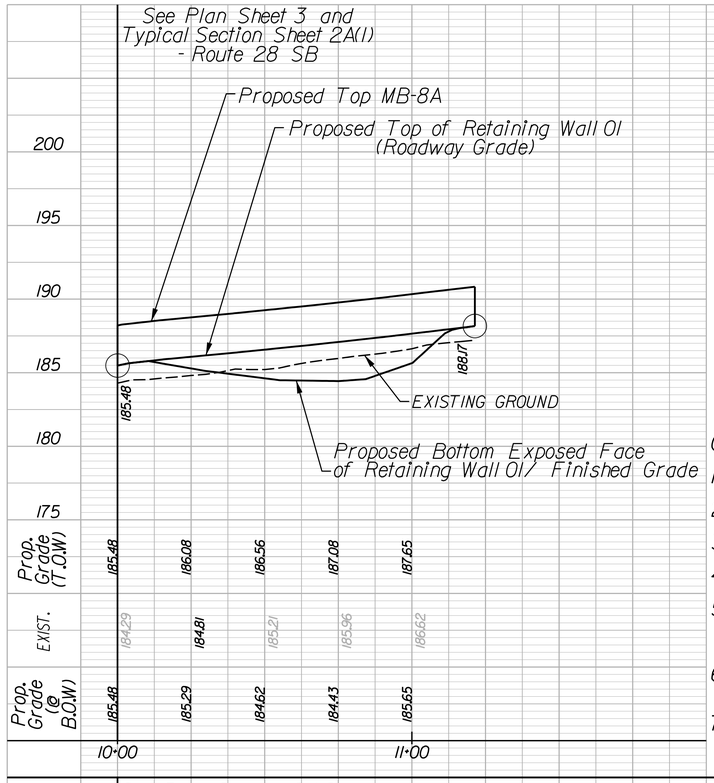
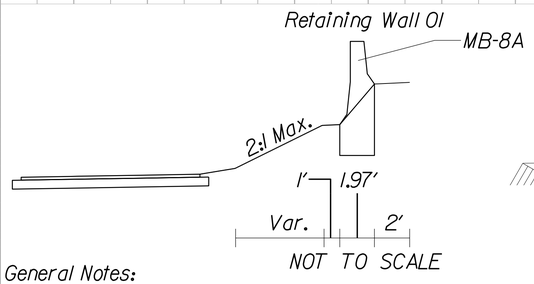
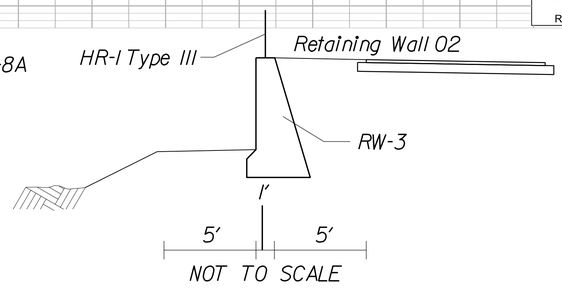
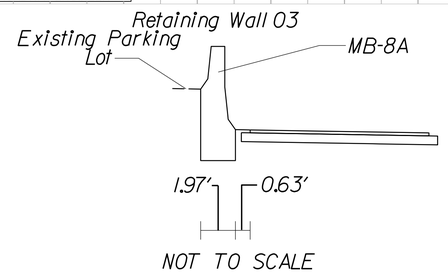
Retaining Wall 01



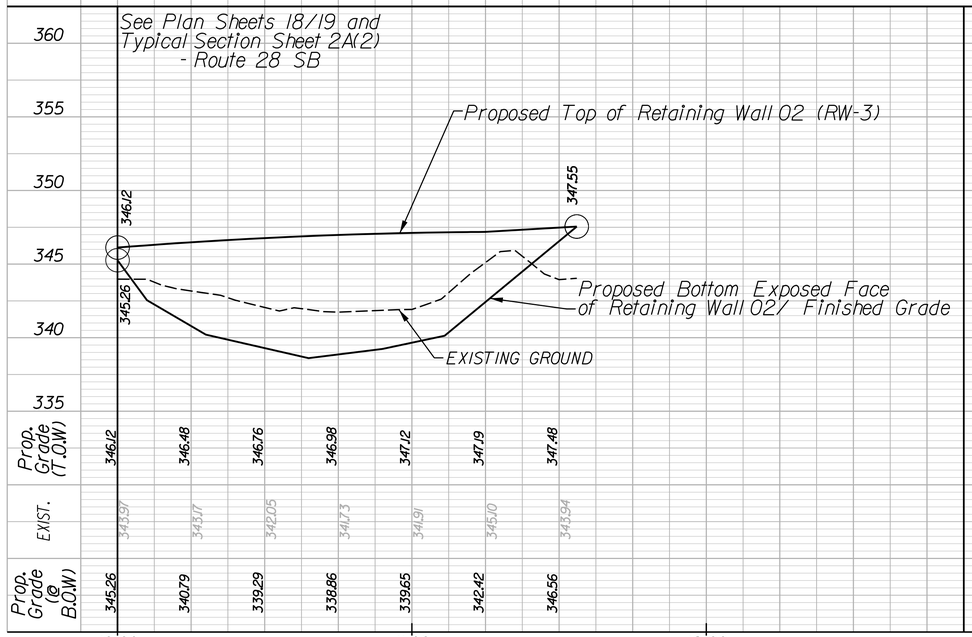




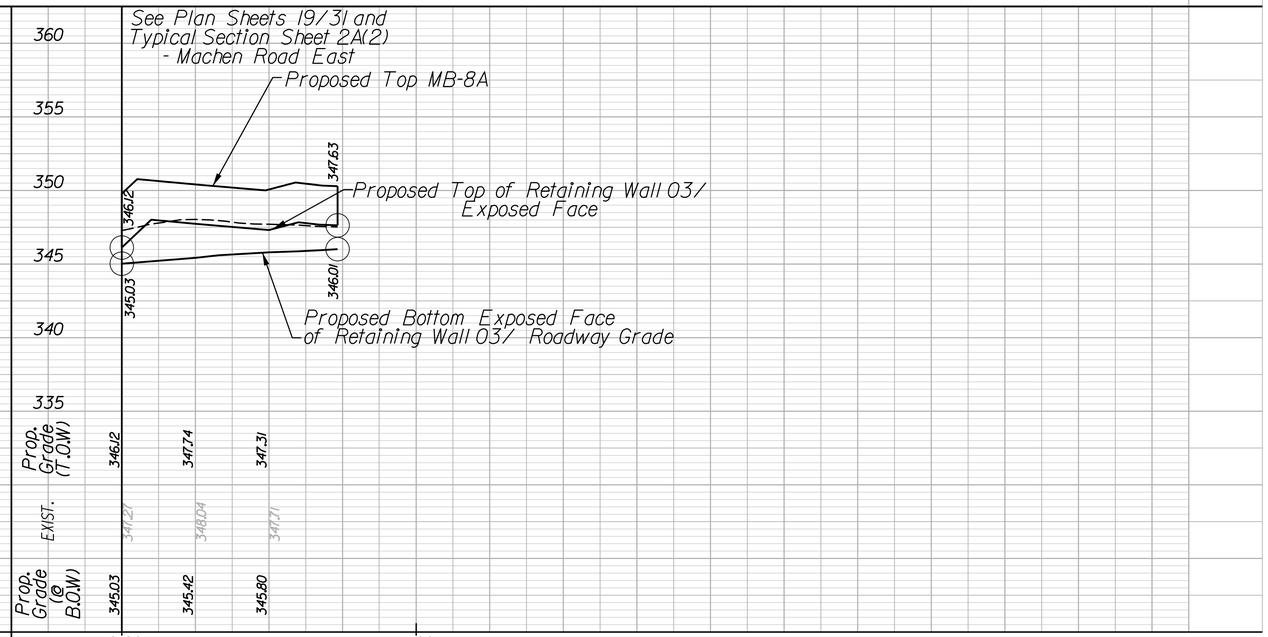


General Notes:

1. RW-3 type wall shall be constructed per VDOT Standard Details and Specifications of Section 401.02 in the VDOT Road and Bridge Standards.
2. All retaining wall dimensions are measured from the retaining wall baselines as shown on the retaining wall profile sheets and roadway plan sheets.
3. See the approved Geotechnical Engineering Report for geotechnical requirements and insitu soil conditions related to the shown retaining walls.
4. Retaining wall designs shall meet all VDOT specifications.
5. The selected wall supplier shall submit detailed design and shop drawings for approval of any wall that is not denoted as a RW-3 standard wall or other standard VDOT specified retaining wall. Drainage details, such as perforated pipe underdrain and/or drainage blanket, shall be included based upon field conditions and design of proposed walls. All panel types and other related elements shall be detailed on shop drawings.
6. Connections between coping or traffic barriers shall be designed to accomodate all relavent loadings, lateral or otherwise, fence shall by the wall fabricator and detailed on the shop drawings.
7. MB-8A shall be constructed per VDOT Standard Details and Specifications of Section 502.07/502.08 in the VDOT Road and Bridge Standards.



Retaining Wall 02



Retaining Wall 03

Dewberry Engineers Inc.
Fairfax, Virginia
ROADWAY ENGINEER

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-	VA.	28	0028-029-269 P101 R201 C501	41

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HORIZ. 0 25' 50'
VERT. 0 5' 10'

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