

W.V.W.A. SERVICE LATERAL INFORMATION

LOT	DOWNSIDE MANHOLE	DIST.	TOP OF S.S. MAIN	MIN. SEWERABLE F.F. ELEVATION	APPROX. WATER PRESSURE
63	B	23'	1205.5	1208.5	56 psi
64	C	57'	1206.8	1209.8	56 psi
65	C	127'	1207.5	1210.5	56 psi
66	C	195'	1208.2	1211.2	56 psi
67	D	0'	1208.8	1211.8	57 psi
68	D	0'	1208.8	1211.8	57 psi
69	D	0'	1208.8	1211.8	57 psi
70	C	198'	1208.2	1211.2	57 psi
71	C	198'	1208.2	1211.2	56 psi
72	C	35'	1206.6	1209.6	56 psi
73	C	35'	1206.6	1209.6	56 psi
74	A	36'	1204.2	1207.2	58 psi
75	A	111'	1204.9	1207.9	58 psi
76	B	28'	1212.6	1215.6	54 psi

NOTES:

- THE MIN. FLOOR ELEVATION IS BASED ON SEC. 2.4(E) OF THE WESTERN VIRGINIA REGIONAL DESIGN AND CONSTRUCTION STANDARDS. LOT OWNERS REQUESTING LOWER SERVICE ELEVATION WILL REQUIRE THE USE OF A PRIVATE SEWAGE PUMP FACILITY, INSTALLED AND MAINTAINED BY THE HOMEOWNER.

STORMWATER SITE STATISTICS

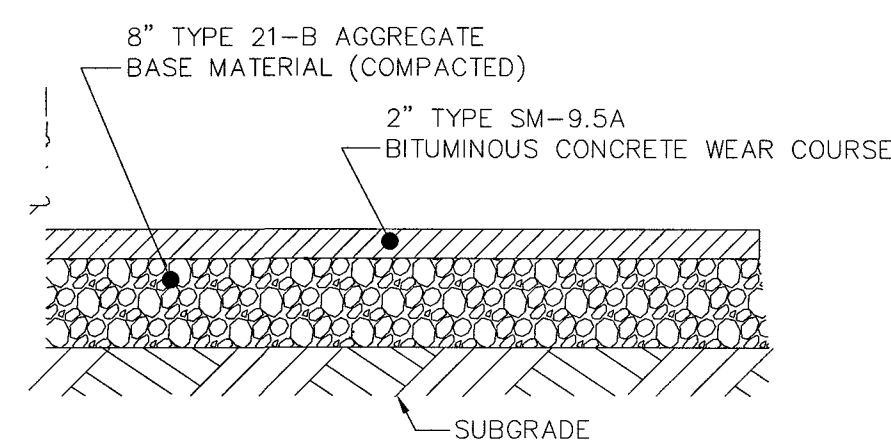
	EXISTING	PROPOSED
TOTAL DISTURBED AREA (AC)	—	5.40
TOTAL SITE AREA (AC)	21.4	21.4
IMPERVIOUS AREA (AC)	0.00	1.38
MANAGED TURF AREA (AC)	5.40	4.02
OPEN SPACE / FOREST AREA (AC)	0.00	0.00
RIGHT OF WAY DISTURBANCE (SF)	—	3,000
KARST PRESENT (Y/N)	UNDETERMINED	UNDETERMINED

EXISTING AS-BUILT BMP INFORMATION

BMP TYPE	BMP #1	BMP #2
LEVEL OF TREATMENT (LEVEL 1 OR LEVEL 2)	EXT. DET. POND	—
TECHNICAL REQUIREMENTS MET (PART IIB OR IIC)	IIC	—
TOTAL AREA TREATED (AC)	81.30	—
IMPERVIOUS AREA TREATED BY BMP (AC)	16.13	—
MANAGED TURF AREA TREATED BY BMP (AC)	65.17	—
OPEN SPACE / FOREST AREA TREATED BY BMP (AC)	0.00	—
SURFACE AREA OF BMP (AC)	0.592	—
STORAGE VOLUME OF BMP (AC-FT)	3.976	—
MAXIMUM AVERAGE DEPTH (FT)	7"	—
QUALITY, QUANTITY, OR BOTH?	BOTH	—
TMDL ADDRESSED? (PHOSPHORUS, BACTERIA, SEDIMENT, ETC)	PHOSPHORUS	—
LATITUDE (DECIMAL DEGREES XX.XXXX)	37.2736	—
LONGITUDE (DECIMAL DEGREES -XX.XXXX)	-80.0869	—
NAME OF RECEIVING WATER	ROANOKE RIVER - SAWMILL HOLLOW	—
HYDROLOGIC UNIT CODE (ALPHANUMERIC CODE RU14, ETC)	RU09	—

IMPERVIOUS BREAKDOWN OF PROPOSED LOTS

PROPOSED USE	PROPOSED IMP.
OVERALL	1.374 AC
ROAD	0.540 AC
LOTS	0.834 AC
LOT #63	0.047 AC
LOT #64	0.050 AC
LOT #65	0.054 AC
LOT #66	0.050 AC
LOT #67	0.049 AC
LOT #68	0.048 AC
LOT #69	0.067 AC
LOT #70	0.077 AC
LOT #71	0.086 AC
LOT #72	0.081 AC
LOT #73	0.076 AC
LOT #74	0.050 AC
LOT #75	0.050 AC
LOT #76	0.049 AC



NOTE:

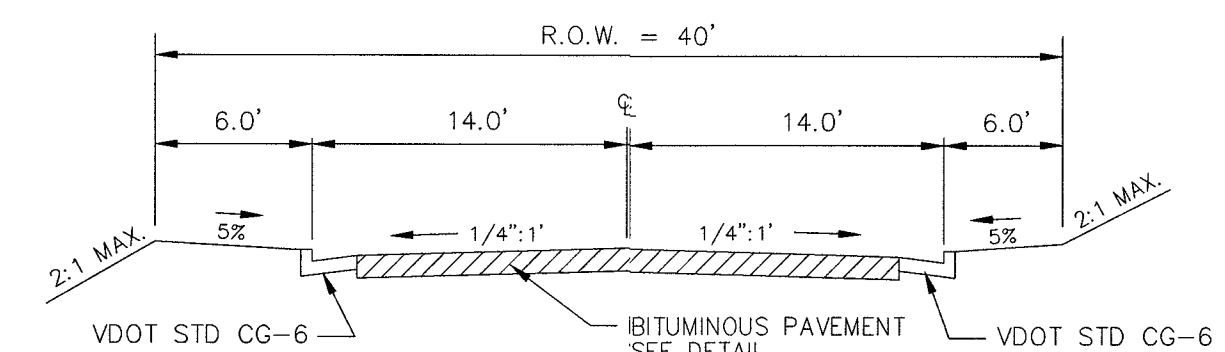
THE PRELIMINARY PAVEMENT DESIGNS SHOWN ARE BASED ON A PREDICTED SUBGRADE CBR VALUE OF 7.0 AND A RESILIENCY FACTOR (RF) OF 2.0 AS SHOWN IN APPENDIX I OF THE "2000 VIRGINIA DEPARTMENT OF TRANSPORTATION PAVEMENT DESIGN GUIDE FOR SUBDIVISION AND SECONDARY ROADS". THE SUBGRADE SOIL IS TO BE TESTED BY AN INDEPENDENT LABORATORY AND THE RESULTS SUBMITTED TO THE VIRGINIA DEPARTMENT OF TRANSPORTATION PRIOR TO BASE CONSTRUCTION. SHOULD THE SUBGRADE CBR VALUE AND/OR THE RF VALUE BE LESS THAN THE PREDICTED VALUES, VDOT MAY REQUIRE AN INCREASE IN THE STRUCTURE BASED ON THE ACTUAL RESULTS. REFER TO THE SAME MANUAL FOR THE NUMBER AND LOCATIONS OF THE REQUIRED SOIL SAMPLES TO BE TESTED. ALL PAVEMENT DESIGNS SHALL BE SUBMITTED TO THE DEPARTMENT FOR REVIEW AND APPROVAL.

THE SUBGRADE SHALL BE APPROVED BY VDOT PRIOR TO PLACEMENT OF THE BASE. BASE SHALL BE APPROVED BY VDOT FOR DEPTH, TEMPLATE AND COMPACTION BEFORE SURFACE IS APPLIED. THE SUBBASE WILL NOT BE INSPECTED BY VDOT PRIOR TO RECEIVING THE CBR TESTS AND SOIL CLASSIFICATIONS. CONTACT VDOT SEVEN (7) DAYS PRIOR TO SCHEDULING PLACEMENT OF AGGREGATE BASE COURSE(S) FOR AN INSPECTION.

VDOT BACKFILLING AND COMPACTION:

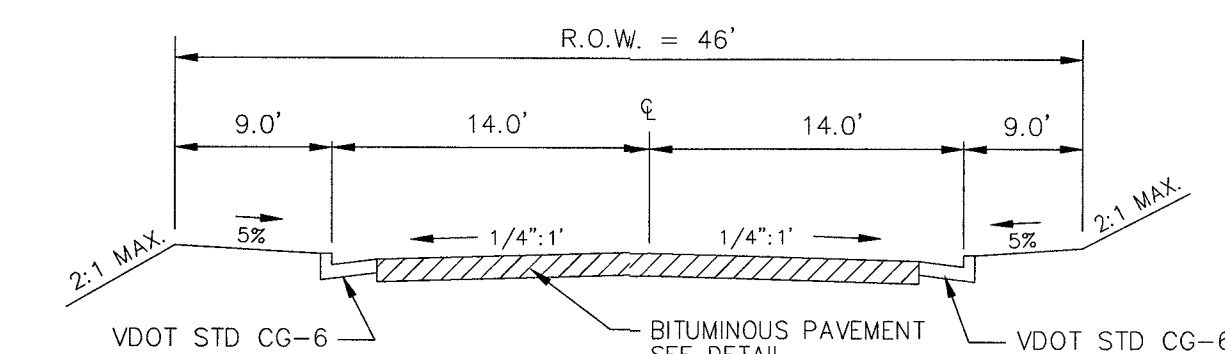
- 1.) BACKFILL MATERIAL SHALL BE VDOT NO. 21A AGGREGATE, PLACED IN LOOSE LIFTS NOT EXCEEDING 6", AND COMPACTED TO AT LEAST 95% MAXIMUM DRY DENSITY WITHIN 2 PERCENTAGE POINTS OF OPTIMUM MOISTURE (V_{TM}-1) WITH THE USE OF MECHANICAL TAMPERS OR VIBRATORY ROLLERS. WATER COMPACTION IS NOT PERMITTED. LOCAL MATERIAL CLASSIFIED AS TYPE I SELECT MATERIAL MAY BE USED AS BACKFILL UPON PRIOR APPROVAL BY THE COUNTY ENGINEER. MATERIAL CLASSIFICATION SHALL BE PERFORMED ON THE ACTUAL SOIL TO VERIFY THAT SOIL MEETS VDOT SPECIFICATIONS FOR TYPE I SELECT MATERIAL BY A QUALIFIED TESTING LABORATORY AND TEST RESULTS SHALL BE CERTIFIED BY A VIRGINIA REGISTERED PROFESSIONAL ENGINEER. DENSITY REQUIREMENTS ARE THE SAME AS ABOVE, HOWEVER, MOISTURE CONTENT FOR SOILS MAY BE WITHIN 20% OF OPTIMUM.
- 2.) DENSITY AND MOISTURE TESTING IS REQUIRED ON BOTH THE AGGREGATE AND SOIL BACKFILL USED IN ANY TRENCHWORK. ALL TESTING SHALL BE PERFORMED AND CERTIFIED BY A GEOTECHNICAL ENGINEER OR A VDOT CERTIFIED TECHNICIAN. RESULTS SHALL BE PROVIDED TO THE INSPECTOR WITHIN 24-HOURS OF TESTING COMPLETION. THE COST OF ALL TESTING IS THE SOLE RESPONSIBILITY OF THE PERMITTEE. THE PERMITTEE SHALL SUBMIT WRITTEN TEST RESULTS TO THE INSPECTOR'S OFFICE.
- 3.) FIELD DENSITY TESTING METHODS SHALL BE APPROVED BY THE COUNTY ENGINEER PRIOR TO PERFORMING ANY TESTING. A PERMITTEE THAT PERFORMS MORE THAN TEN (10) EXCAVATIONS A MONTH UNDER THESE STANDARDS MAY SUBMIT A WRITTEN QUALITY CONTROL PLAN TO REDUCE THE NUMBER OF REQUIRED FIELD DENSITY TESTS. THE QUALITY CONTROL PLAN MUST INCLUDE THE EXCLUSIVE USE OF A VDOT-CERTIFIED AGGREGATE. THE QUALITY CONTROL PLAN SHALL BE SUBMITTED TO THE COUNTY ENGINEER FOR REVIEW AND APPROVAL.
- 4.) FLOWABLE FILL MAY BE USED AS AN ALTERNATE TO AGGREGATE OR SELECT MATERIAL. FLOWABLE FILL SHALL MEET THE REQUIREMENTS OF VDOT SPECIAL PROVISIONS FOR FLOWABLE BACKFILL. THE MATERIAL MUST BE PLANT-CERTIFIED TO PROVIDE A 28-DAY COMPRESSIVE STRENGTH BETWEEN 30 AND 200 PSI. A CERTIFICATE OF MIX DESIGN MUST BE SUBMITTED TO THE INSPECTOR PRIOR TO PLACING THE MATERIAL IN THE TRENCH. A MINIMUM OF FOUR 6 X 12 TEST CYLINDERS SHALL BE TAKEN EVERY 50 CY OF PLACEMENT. CYLINDERS SHALL BE TESTED BY A QUALIFIED TESTING LABORATORY FOR 28-DAY STRENGTH. RESULTS SHALL BE PROVIDED TO THE INSPECTOR'S OFFICE WITHIN 24 HOURS OF TESTING COMPLETION. THE COST OF ALL TESTING IS THE RESPONSIBILITY OF THE PERMITTEE. IF THE REPORT INDICATED THE COMPRESSIVE STRENGTHS ARE NOT BETWEEN 30 AND 200 PSI, THE PERMITTEE WILL BE RESPONSIBLE FOR REMOVING AND REPLACING THE BACKFILL WITH ACCEPTABLE BACKFILL AND COMPLETING THE RESTORATION OF THE STREET AT NO COST TO THE COUNTY.

WOODS MEADOW COURT — ROAD SECTION



NOTE: G.C. SHALL ENSURE THAT A MINIMUM CLEAR ZONE OF 1' IS MAINTAINED BETWEEN THE BACK OF CURB AND ANY ABOVE-GROUND UTILITY STRUCTURES.

WOODS MEADOW LANE — ROAD SECTION



NOTE: G.C. SHALL ENSURE THAT A MINIMUM CLEAR ZONE OF 1' IS MAINTAINED BETWEEN THE BACK OF CURB AND ANY ABOVE-GROUND UTILITY STRUCTURES.