PAVEMENT

1. Bituminous surface to be applied in accordance with current Virginia Dept. of Highways and Transportation Specifications.
2. Subgrade must be approved by the Virginia Dept. of Highways and Transportation for grade, template, and compaction before base is placed.
3. The requirement to pugmill aggregate base will be waived in the event that the surface course is applied after a minimum 60 day waiting period beginning at the completion of the installation of the aggregate base. In the event that the surface course is applied prior to 60 days, the pugmill requirement will apply.
4. All utilities to be in place prior to laying base material.
5. Base must be approved by the Virginia Dept. of Highways and Transportation, for depth, template, and compaction before surface treatment is applied.
6. Prime and double seal of surface treatment is to be applied in accordance with the latest Virginia Dept. of Highways and Transportation "Road and Bridge Specifications."
7. Surface treatment must be approved by the Resident Engineer.
8. Surface treatment shall not be applied between November 15 and April 1, without written authorization.
9. Pavement and base material for each road shall be one (1) of the alternatives listed under the appropriate category in "Recommended Pavement Design, Secondary Road Construction Memorandum," Va. Dept. of Highways and Transportation, revised October 3, 1968.

GRADING

1. Overlot grading to be such as to preclude puddling of water.
2. Where unsuitable material is encountered in the roadway, it shall be removed from the entire road right of way width and replaced as necessary with suitable material to the satisfaction of the Engineer.
3. Where fill slope extends beyont the normal right of way, a slope easement shall be required. At all road intersections the cut slopes shall be graded back to provide the required sight distances.
4. All groth of trees and vegetation shall be cleared and grubbed from the entire right of way. Other trees and vegetation which obstructs sight distances at road intersections shall be removed.
5. All vegetation and overburden to be removed from shoulder to shoulder prior to the conditioning of the subgrade.
6. Excess excavation to be disposed of as directed by the Engineer.

DRAINAGE

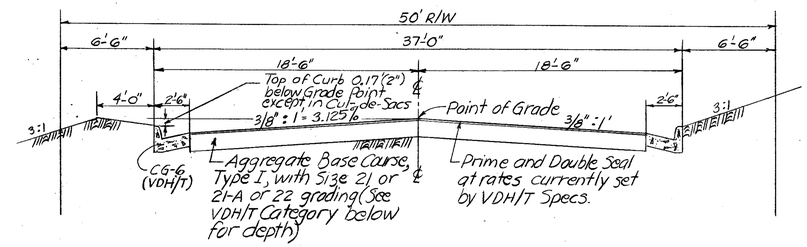
1. All pipe culverts shown hereon are to be concrete with a minium cover of one (1) foot.
2. Where springs are encountered within the right of way, standard spring boxes shall be provided and piped to the nearest drainage outlet.
3. Standard underdrains (CD-1 or CD-2) to be provided as indicated on the plans, or where field conditions dictate.
4. All private entrance pipes (if applicable) shall be a minimum of 20 feet in length and have a minimum diameter of 15" and shall be placed in accordance with the Virginia Dept. of Highways and Transportation Specifications unless otherwise noted on the plans.
5. Temporary drainage easements and outlet ditches shall be provided at the end of all roads where puddling of water will occur due to stage of construction. Such easements to be abandoned at the time the road is extended.
6. All drainage easements shall be cleared and graded to the satisfaction of the Engineer. Drainage easements shall extend to a point deemed as a natural water course.
7. All road ditches shown as paved on plans are to be paved in accordance with the standard typical section or special section as shown on the plans to a minimum depth of 6" unless otherwise directed by the Resident Engineer in writing. Any additional paving of the ditches, other than those shown on the plans, will be determined prior to acceptance of the roads into the VDH/T Secondary Road System.

EROSION-SILTATION CONTROL

1. No disturbed area shall be depuded for more than 60 days.
2. All erosion and siltation control measures are to be placed prior to or as the first step in grading.
3. All storm and sanitary sewer lines not in streets are to be mulched and seeded within 15 days after backfill. No more than 500' shall be open at one time.
4. All temporary earth berms, diversions, and silt basins are to be mulched and seeded for temporary vegetative cover within 10 days after grading. Straw or hay mulch is required. The same applies to soil stockpiles.
5. During construction, all storm sewer inlets will be protected by silt traps, maintained and modified as construction progresses.
6. All disturbed areas not paved, sodded, or built upon by Nov. 1 are to be seeded on that date with oats, abruzzi rye, or equal and mulched with hay or straw. Modify as applicable depending on time of construction.

MISCELLANEOUS

1. All intersections to have a minimum radii of 35 feet.
2. Entrance to State Primary or Secondary roads must be covered by CE-6 Permit prior to construction. Contractor to be responsible for obtaining permit.
3. Elevations shown hereon are to U.S.C.&G.S. Datum.
4. All utilities located in right of ways must be placed under permit at the time that the State assigns the road a number.
5. The Virginia Dept. of Highways and Transportation approval of these plans expires three years from date of approval.
6. Street name signs shall be installed at all intersections by the developer prior to acceptance of the streets into the highway system.
7. All roadside ditches, drainage easement ditches, and disturbed areas shall be seeded within 15 days after the road is cut. Temporary seeding may be used, but a permanent stand of vegetation shall be required prior to final road acceptance.
8. All construction methods and materials must be in accordance with V.D.H.&T. Standards and Specifications.
9. The V.D.H.&T. approval of these plans does not preclude the right to add additional facilities such as seeding, paving, protective lining for road side ditches, etc. as may be deemed necessary by the Department prior to acceptance of such roads in order to limit siltation and pollution of nearby lakes, ponds, and adjacent property.
10. Location of existing sewer, water, and gas pipes, conduits, and other structures across, underneath, or otherwise along the line of the proposed work are not necessarily shown on the plans, and if shown, are only approximately correct. The Contractor shall be responsible for all damages done to any structures or any property through his negligence or carelessness. Contractor to verify the location/elevation of all underground utilities shown on the plans in the areas of construction prior to beginning construction. Contact the Engineer immediately if location or elevation is different from that shown on the plans, if there appears to be a conflict, or upon discovery of any utilities not shown on the plans.
11. Call "Miss Utility" toll free at 1-800-552-7001 prior to any digging.
12. Backfill for all utilities within subdivision streets to be placed in accordance with VDH&T specifications and the following:
    A. No trench shall be backfilled until authorized by the VDH/T. Materials used for backfill from the bottom of the trench to 12" above the pipe shall be select material, free from frost, large clods, stones, and debris. It shall be thoroughly and carefully compacted to insure a sound backfill over and around the pipe.
    B. Backfill shall be compacted by mechanical tamping throughout the depth of the trench to obtain 95% density at optimum moisture ±2.0% This is to insure a suitable subbase acceptable to the Road Engineer for the proposed roads.
    C. If in the opinion of the Road Engineer the material taken from the trench is not suitable for backfill, it shall be removed and acceptable materia used for backfilling.
13. Water and sewer contractors must notify VDH&T in writing when installation begins so that density can be tested (95% @ ± 2.0% of Optimum Moisture).

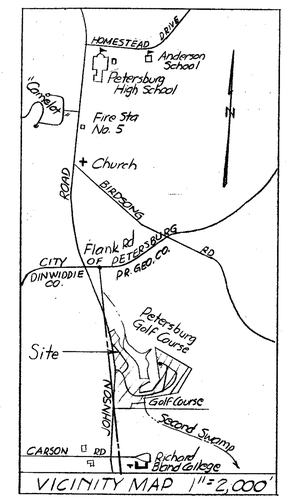


TYPICAL ROAD SECTION
(NO SCALE)

ROAD CLASSIFICATION

ROAD NAME	EXPECTED V.P.D.	VDH/T CATEGORY	AGGREGATE BASE DEPTH	FROM STATION	TO STATION
BLAND RIDGE CT.	105	I	* 6"	0+00	10+14.50

* Aggregate Base Depth to be verified from CBR Tests. Test results to be submitted to VDH/T for review.



VICINITY MAP 1" = 2,000'

Owner:
A.B.C Corporation
Robert McIlwane, Esq., President
Mutual Building
Petersburg, Va. 23803
Tel (804) 732-1600

Reviewed SCM 6/20/88

COMMONWEALTH OF VIRGINIA
CARL A. WATKINS JR.
CIVIL ENGINEER
CERTIFICATE No. 1285
CERTIFIED PROFESSIONAL ENGINEER

LAPRADE BROS.
CIVIL ENGINEERS & SURVEYORS
3 W. Cary St. Richmond, Va.

BLAND RIDGE – SECTION 2
Rives Dist, Prince George Co., Va.
ROAD & DRAINAGE PLANS

DATE: 6/1/88
DESIGNED: CAW
DRAWN: CAW, III
CHECKED:
REVISIONS
SHEET 1 OF 3

File: