LEGEND ROADS

STORM PIPE & STRUCTURE NO.

DROP INLET & STRUCTURE NO.

CURB

CURB & GUTTER

DRY CURB & GUTTER

PROPOSED PAVEMENT

PAVED DITCH

DEPTH OF PAVED DITCH

JUTE MESH OR SODDED DITCH DEPTH OF JUTE MESH DITCH

EARTH DITCH

DRIVEWAY CULVERT AND SIZE

BENCH MARK

CLEARING LIMITS

VDOT STANDARD STOP SIGN

PROPOSED SPOT ELEVATION

SEWER

EXISTING SANITARY SEWER

PROPOSED SANITARY SEWER

O SEWER CONNECTIONS

3 7605.8 M.H. NUMBER W/ STATION OR COORDINATE LOCATION

WATER

EXISTING WATER LINE

PROPOSED WATER LINE

CROSS
TEE

FIRE HYDRANT (COMPLETE)

SINGLE SERVICE CONNECTION

EROSION CONTROL

STB

STRAW BAIL BARRIER

1.05

TEMPORARY DIVERSION DIKE

1.15

TEMP. SEDIMENT TRAP

1.25

SB

SILT BASIN

INLET PROTECTION

1.08

SF

XXXX

SILT FENCE

1.06

CE

CONSTRUCTION ENTRANCE

1.01

* VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK SPEC. NO.

GENERAL NOTES

OWNER AND DEVELOPER: BRANCHESTER ASSOCIATES

c/o JAMES R. JONES

103 S. COLONIAL DRIVE

HOPEWELL, VA 23860

- 2. ZONING: R-1
- 3. NUMBER OF LOTS: 67
- 4. TAX MAP NUMBER: PART OF 13(6) 2 & 3

SEWER AND WATER NOTES

- 1. ALL MATERIALS FOR SEWER AND WATER SYSTEMS SHOWN SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST APPLICABLE SPECIFCATION OF PRINCE GEORGE COUNTY.
- 2. ALL WORK SHALL BE SUBJECT TO INSPECTION BY UTILITY DEPARTMENT OFFICIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF APPROPRIATE COUNTY OFFICIALS 48 HOURS PRIOR TO START OF WORK.
- 3. MINIMUM CLEAR COVER FOR ALL WATER PIPE SHALL BE 3.5 FEET.
- 4. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY HIGHWAY PERMITS AND SEND A COPY TO THE COUNTY PRIOR TO START OF CONSTRUCTION.
- 5. ANY LOT WITH LESS THAN 50 FEET OF FRONTAGE SHALL HAVE FRONT CORNERS OR END OF 6' CONNECTION STAKED PRIOR TO CONSTRUCTION OF A 6' SEWER SERVICE.
- 6. SEWER PIPE SHALL BE EITHER CONCRETE, VITRIFIED CLAY, PVC OR ASBESTOS CEMENT, TO BE BID AT THE CONTRACTORS OPTION. ALL SEWER JOINTS SHALL BE CLASS A, BEDDING SHALL BE CLASS B MINIMUM; IF PVC PIPE, BEDDING SHALL BE AS SHOWN IN DETAIL ON SHEET 6 OF 6.
- 7. SEWER GRADES ARE BASED ON U.S.C. AND G. S. DATUM.
- 8. CONTRACTOR SHALL INSTALL 6" SEWER SERVICE CONNECTIONS TO ALL LOTS (R/W LINE OR EDGE OF EASEMENT) AS SHOWN.
- 9. ALL WATER SERVICES ARE TO BE 3/4 INCH COPPER, TYPE K, DRAWN TUBING.
- 10. THE CONTRACTOR WILL INSTALL ALL WATER CONNECTIONS AND METER BOXES.
- 11. FIRE HYDRANT PUMPER CONNECTIONS SHALL FACE IN THE DIRECTION OF THE ARROW.
- 12. THE EXACT MANHOLE TOP SHALL BE ON THE SAME GRADE AS THE FINISHED ROAD GRADE AND AS NOTED ON SEWER CUT SHEETS.
- 13. BACKFILL FOR ALL UTILITIES WITHIN PROPOSED SUBDIVISION STREETS SHALL BE PLACED GENERALLY IN ACCORDANCE WITH PRINCE GEORGE COUNTY SPECIFICATIONS, AND THE FOLLOWING CRITERIA: (1.) NO TRENCH SHALL BE BACKFILLED UNTIL AUTHORIZED BY THE COUNTY. MATERIALS USED FOR BACKFILL FROM THE BOTTOM OF THE TRENCH TO 12" (TWELVE INCHES) ABOVE THE PIPE SHALL BE SELECT MATERIAL, FREE FROM FROST, LARGE CLODS, STONES AND DEBRIS, AND SHALL BE THOROUGHLY AND CAREFULLY COMPACTED. 2. BACKFILL SHALL BE COMPACTED BY MECHANICAL TAMPING THROUGHOUT THE DEPTH OF THE TRENCH TO INSURE A SUITABLE SUBBASE, ACCEPTABLE TO THE ROAD ENGINEER, IF THE MATERIAL IS TAKEN FROM THE DITCH IS NOT SUITABLE FOR BACKFILLING IT SHALL BE REMOVED AND ACCEPTABLE MATERIAL USED FOR BACKFILLING THE TRENCH.
- 14. THE ENGINEER WILL CERTIFY THAT THE ROADS AND DITCHES ARE WITHIN 6" OF SUBGRADE BEFORE WATERLINE CONSTRUCTION CAN BEGIN.
- 15. FOR SEWER AND WATER INSTALLATION WITHIN EXISTING VDOT R/W; UTILITY CONTRACTORS MUST NOTIFY VDOT WHEN INSTALLATION BEGINS SO THAT DENSITY CAN BE TESTED (95% @ OPTIMUM MOISTURE +20%).
- 16. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON THE PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT ENGINEER IMMEDIATELY, IF: LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLAN, OR IF: THERE APPEARS TO BE A CONFLICT, AND UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THE PLAN. TO MISS THE UTILITY CALL "MISS UTILITY" OF CENTRAL VIRGINIA: 1-800-552-7001 (TOLL FREE).
- 17. THE INSTALLATION OF BACK FLOW DEVICE IS REQUIRED IN ALL HOUSES WHERE THE FINISHED FLOOR ELEVATION IS LOWER THAN UPGRADE MANHOLES. THIS DEVICE WILL BE INSPECTED BY THE COUNTY BUILDING INSPECTOR.
- 18. ALL FUTURE RESIDENTS BELOW THE CONTOUR WILL REQUIRE INDIVIDUAL PRESSURE REGULATORS.
- 19. CONTRACTORS TO MAINTAIN 3.5' OF COVER OVER FIRE HYDRANT LATERAL AT DITCH LINE CROSSING.
- 20. ALL WATERLINE VALVES MUST BE LÖCATED ON THE TEE OR CROSS WHEN APPLICABLE. 21. ALL MANHOLES IN UTILITY EASEMENTS ARE TO HAVE THE CONE SECTION EXTEND I FOOT ABOVE THE GROUND.

EROSION CONTROL NOTES

- 1. ALL DISTURBED AREAS TO BE SEEDED WITHIN 15 DAYS AFTER ROUGH GRADING IS COMPLETED.
- 2. ALL STREETS WILL BE STABLILIZED WITH BASE STONE WITHIN 30 DAYS AFTER FINAL GRADING.
- 3. THE PRINCE GEORGE ENGINEERING OFFICE WILL BE NOTIFIED 24 HOURS IN ADVANCE OF ANY PLANS TO BEGIN CLEARING AND GRADING OPERATIONS.
- 4. THE PRINCE GEORGE COUNTY ENVIRONMENTAL ENGINEERING DEPARTMENT AND THE ENGINEERING DEPARTMENT AND ALL OTHER INTERESTED COUNTY AGENCIES SHALL MAKE A CONTINUING REVIEW AND EVALUATION OF THE METHOD USED AND THE OVERALL EFFECTIVENESS OF THE EROSION AND SEDIMENT CONTROL PROGRAM. AN APPROVED EROSION AND SEDIMENT CONTROL PLAN MAY BE AMENDED BY THE PLAN APPROVING AUTHORITY IF ON SITE INSPECTION INDICATES THAT THE APPROVED CONTROL MEASURES ARE NOT EFFECTIVE IN CONTROLLING EROSION AND SEDIMENTATION OR BECAUSE OF CHANGED CIRCUMSTANCES THE APPROVED PLAN CANNOT BE CARRIED OUT.
- 5. STRAW BALES WILL BE STAKED IN ROADSIDE DITCHES EVERY 100', AFTER THE ROAD TEMPLATE IS GRADED AND WILL BE MAINTAINED UNTIL A GOOD STAND OF GRASS IS OBTAINED.

APPROXIMATE MATERIAL QUANTITIES

ROADS		WATER		SEWER
CLEARING BASE (6" 21-A) ASPHALT (I-I/2" S-5) EXCAVATION CUT FILL ROADS FILL LOTS CURB & GUTTER	9,814 CY 4,870 CY 4,561 CY 7,256 LF	10" W/L 12" W/L	1920 LF 1980 L	6" SERVICE LATERAL 2100 LF 8" S/L 2,302 LF 10" S/L 1,665 LF STD. FRAME & COVER 16 E 48" MANHOLE 163 V SERVICE OUT OF MANHOLE 23 E 8"x6" TEE 44 EA 6" PLUG 67 EA

DRAINAGE	EROSION CONTROL						
12" CL III RCP	CONSTRUCTION ENTRANCE CHECK DAM INLET PROTECTION SILT FENCE	1 EA 2 EA 23 EA 600 LF					
QUANTITIES AS SHOWN ARE APPROXIMATE ONLY.							

22. USE OF HEIGHT ADJUSTMENT RINGS WILL NOT BE ALLOWED EXCEPT UNDER PAVED SURFACES WHERE A MAXIMUM OF ONE RING IS PERMITTED.

CONTRACTORS SHOULD MAKE THEIR OWN TAKEOFFS.

23. A SMOOTH TRANSITION OR DROP MANHOLE MUST BE PROVIDED FOR EACH LATERAL OR SANITARY SEWER ENTERING A SANITARY MANHOLE.

CERTIFICATION

I, WE HEREBY CERTIFY THAT THE LOT LINES, LOT NUMBERS, BLOCK NUMBERS AND THE STREET NAMES SHOWN ON THESE PLANS ARE IDENTICAL TO THOSE SHOWN ON THE OFFICIAL RECORDED PLAT, AND NO CHANGES WILL BE MADE WITHOUT PRIOR APPROVAL FROM THE UTILITY DEPARTMENT. IF ANY CHANGES ARE APPROVED, REVISED WATER AND/OR SEWER PLANS WILL BE SUBMITTED WITHIN 48 HOURS AFTER APPROVAL.

ENGINEER ENGINEER

SHEET Of JOB 140

4-11-89

DESIGNE

CHECK

DRAWN BY