SECTIONS FOUR AND FIVE
BAXTER RIDGE
RIVES DISTRICT
PRINCE GEORGE COUNTY, VIRGINIA

OWNER & DEVELOPER

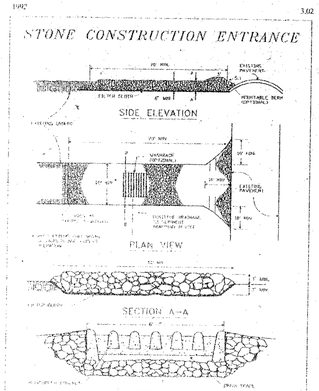
JAMES M. ADKINS

4400 COURTHOUSE ROAD
PRINCE GEORGE COUNTY, VIRGINIA 23875
(804) 272-7503

GENERAL NOTES

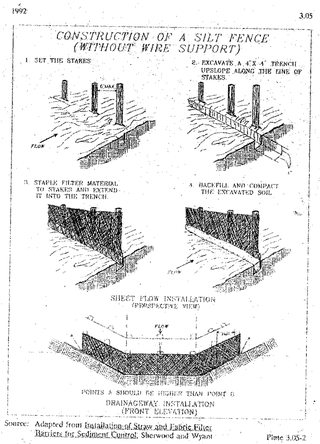
1. THE MOST CURRENT EDITION OF THE ROAD AND BRIDGE SPECIFICATIONS AND THE MOST CURRENT EDITION OF THE ROAD DESIGNS AND STANDARDS OF THE VIRGINIA DEPARTMENT OF HIGHWAYS AND TRANSPORATION SHALL GOVERN THE FOLLOWING:
   A. POURING, CURING, FORMS, WORKMANSHIP, ETC OF ALL CONCRETE USED ON THIS PROJECT.
   B. STABILIZED BASE COARSE MATERIAL AND SURFACE TREATMENT OR BITUMINOUS SURFACE.
   C. MATERIALS AND INSTALLING OF ALL PIPE CULVERTS.
2. ALL CURB AND GUTTER FILLETS AT INTERSECTIONS ARE TO HAVE 20' RADII UNLESS OTHERWISE NOTED.

   ALL EARTH DITCH FILLETS AT INTERSECTIONS ARE TO HAVE 35' RADII UNLESS OTHERWISE NOTED.
3. BACKFILL FOR ALL UTILITIES WITHIN PROPOSED SUBDIVISION STREETS SHALL BE PLACED GENERALLY IN ACCORDANCE WITH PRINCE GEORGE COUNTY UTILITY SPECIFICATIONS AND THE FOLLOWING CRITERIA.
   A. NO TRENCH SHALL BE BACKFILLED UNTIL AUTHORIZED BY THE COUNTY ENGINEER. MATERIALS USED FOR BACKFILL FROM THE BOTTOM OF THE TRENCH TO TWELVE (12") INCHES 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 AROUND AND OVER THE PIPE.
   B. BACKFILL SHALL BE COMPACTED BY MECHANICAL TAMPING THROUGHOUT THE DEPTH OF THE TRENCH TO OBTAIN 95% DENSITY AT OPTIMUM MOISTURE (20%. THIS IS TO INSURE A SUITABLE SUBGRADE, ACCEPTABLE TO THE ROAD ENGINEER FOR THE PROPOSED ROADS.
   C. IF, IN THE OPINION OF THE COUNTY ENGINEER, THE MATERIAL TAKEN FROM THE DITCH IS NOT SUITABLE FOR BACKFILLING, IT SHALL BE REMOVED AND ACCEPTABLE MATERIAL USED FOR BACKFILLING THE TRENCH.
4. ALL UTILITIES TO BE IN PLACE BEFORE LAYING BASE MATERIAL (AGGREGATE, TYPE 21-A)
5. THE LOCATION OF ALL DRAINAGE STRUCTURES ON THESE PLANS IS APPROXIMATE. FINAL FIELD LOCATION MAY BE MADE BY THE ENGINEER TO MEET FIELD CONDITIONS.
6. ALL VEGETATION AND OVERBURDEN TO BE REMOVED FROM SHOULDER TO SHOULDER PRIOR TO THE CONDITIONING OF THE SUBGRADE.
7. ALL DRAINAGE EASEMENTS TO BE CLEARED, GRUBBED AND GRADED TO CONTAIN WATER FROM PIPE CULVERTS.
8. LENGTH OF ALL PIPE CULVERTS SHOWN ON THESE PLANS IS APPROXIMATE ONLY
9. CONCRETE FOR CURB AND GUTTER SHALL BE CLASS A-3 PER CURRENT SPECIFICATIONS OF THE VIRGINIA DEPARTMENT OF HIGHWAYS AND TRANSPORTATION.
10. THE VIRGINIA DEPARTMENT OF HIGHWAYS AND TRANSPORTATION APPROVAL OF THESE PLANS WILL EXPIRE THREE (3) YEARS FROM THE DATE OF APPROVAL.
11. THE CONTRACTOR WILL SEED ALL SLOPES AS SOON AS POSSIBLE TO ELIMINATE UNNECESSARY EROSION. NO DISTURBED SURFACE WILL BE LEFT UNSEEDED. WHERE REQUIRED, ALL ROAD DITCHES ARE TO BE PAVED IN ACCORDANCE WITH STANDARD PG-2A-1 (MODIFIED TO FIT TYPICAL SECTION) WITH MINIMUM DEPTH TO CONTAIN TEN YEAR STORM, UNLESS OTHERWISE DIRECTED BY THE ENGINEER IN WRITING.
12. VIRGINIA DEPARTMENT OF HIGHWAYS AND TRANSPORTATION APPROVAL OF SUBDIVISION ROAD PLANS DOES NOT PRECLUDE THE RIGHT TO ADD ADDITIONAL FACILITIES SUCH AS SEEDING, PAVING, SILT DAMS, SILT BASINS, ETC. AS MAY BE DEEMED NECESSARY BY THE DEPARTMENT PRIOR TO THE ACCEPTANCE OF SUCH ROADS IN ORDER TO LIMIT SILTATION AND POLLUTION OF NEARBY LAKES, PONDS, STREAMS, AND ADJACENT PROPERTIES.
13. ALL DRAINAGE EASEMENTS ARE TO EXTEND TO A NATURAL WATER COURSE.
14. SLOPE EASEMENTS FOR FILL SLOPES ARE REQUIRED WHERE SLOPES EXCEED PROPOSED RIGHT OF WAY LIMITS.
15. A PERMIT TO TIE INTO EXISTING ROADS SHALL BE OBTAINED FROM THE RESIDENT ENGINEER PRIOR TO ROAD CONSTRUCTION.
16. THE CONTRACTOR WILL SEED ALL SLOPES AND EASEMENTS WITH AT LEAST A TEMPORARY SEEDING WITHIN FIFTEEN (15) DAYS AFTER COMPLETION OF STREET GRADING OR STORM SEWER PLACEMENT TO ELIMINATE UNNECESSARY EROSION. NO DISTURBED AREA WILL BE ALLOWED AT THE TIME OF ACCEPTANCE OF THE ROAD INTO THE STATE SYSTEM.
17. ALL SUBGRADE MATERIAL SHALL HAVE MINIMUM CBR VALUE OF TEN (10).
18. THE BASE MATERIAL FOR ALL STREETS MUST BE APPROVED BY THE ROAD ENGINEER PRIOR TO THE PLACEMENT OF THE SURFACE COURSE. IF UNSUITABLE MATERIAL FOR THE SUBGRADE IS ENCOUNTERED, THE ROAD ENGINEER MUST BE NOTIFIED PRIOR TO PLACEMENT OF THE BASE MATERIAL.
19. THE ROAD ENGINEER MUST BE NOTIFIED PRIOR TO THE SURFACE TREATMENT BEING APPLIED.
20. THE LOCATION OF EXISTING UTILITIES, STORM SEWERS, SANITARY SEWERS, GAS LINES, WATER LINES, ELECTRICAL LINES AND TELEPHONE LINES EITHER UNDERGROUND AND/OR OVERHEAD ACROSS OR ALONG THE LINE OF PROPOSED WORK ARE NOT NECESSARILY SHOWN ON THE PLANS AND WHERE AT NO EXTRA COST, LOCATE ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPES OR OTHER OBSTRUCTIONS OR FROM ANY DELAY DUE TO THE REMOVAL OF OR REARRANGEMENT OF SAME.
21. ALL CUT AND FILL SLOPES AND CHANNELSIDE SLOPES WHICH ARE NOT PAVED SHALL BE SEEDED UNTIL A GOOD STAND OF GRASS IS OBTAINED IN ACCORDANCE WITH THE VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK AND THE FOLLOWING TABLE:
   A. 100 LB. PER 1000 SQ. FT. GROUND LIMESTONE OR EQUIVALENT.
      NO SOIL TEST REQUIRED FOR INITIAL ESTABLISHMENT.
   B. 25 LB. OF 5-20-20 FERTILIZER OR EQUIVALENT PER 1000 SQ. FT. VARIETIES TO BE SEEDED:
      1. SPRING SEEDING - MARCH 1 THRU MAY 1:
         MIXTURE #5 AT 1 LB. PER 1000 SQ. FT.
      2. SUMMER SEEDING - MAY 1 THRU AUGUST 1:
         MIXTURE #4 1-1/2 LBS. PER 1000 SQ. FT.
      3. AUTUMN SEEDING - AUGUST 1 THRU OCTOBER 1:
         MIXTURE #5 AT 1 LB. PER 1000 SQ. FT.
      4. MULCH NO LIME STRAW PER 1000 SQ. FT. OR ASPHALT MULCH 10 GAL. PER 1000 SQ. FT.
      5. ALL SEEDING MUST BE MULCHED.
22. AUTHORIZED LOCAL OFFICIALS SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF THE WORK TO BE STARTED SO AN AUTHORIZED REPRESENTATIVE MAY BE ASSIGNED TO MAKE ANY AND ALL NECESSARY INSPECTIONS OF THE WORK PERFORMED.
23. CONTRACTOR SHALL CALL FOR COUNTY INSPECTION OF ALL PIPE LINE INSTALLATION PRIOR TO PLACING BACKFILL.
24. WHEN ALL IMPROVEMENTS ARE COMPLETED, ALL DRAINAGE AND SANITARY SEWER LINES ARE FLUSHED AND CLEANED OF FOREIGN MATTER AND ALL CURBS, GUTTERS AND STREETS ARE CLEANED AND FREE OF DIRT AND DEBRIS. THE DEVELOPER SHALL NOTIFY THE APPROPRIATE LOCAL OFFICIAL TO MAKE FINAL INSPECTION, A REPRESENTATIVE OF THE DEVELOPER SHALL BE PRESENT AT THE FINAL INSPECTION.
25. THE CONTRACTOR SHALL NOTIFY THE LOCAL INSPECTOR AT LEAST 24 HOURS BEFORE PLACING BASE STONE SO THE SUBGRADE MAY BE INSPECTED AND 24 HOURS BEFORE PLACING SURFACE COURSE SO THE LOCAL INSPECTOR CAN BE ON SITE.
26. WHERE DITCHES ARE DEEPENED TO ACCOMODATE CULVERTS, THE SLOPE FROM THE SHOULDER TO THE DITCH SHALL BE MAINTAINED (HORIZONTALLY MOVING THE DITCH PROFILE FURTHER FROM THE CENTERLINE.
27. CONTRACTOR SHALL NOTIFY MISS UTILITY (1-800-552-7001) BEFORE BEGINNING ANY EXCAVATION.
28. ALL CONCENTRATED DRAINAGE WITH CONVEYED FROM ROADSIDE DITCHES IN CUT SECTIONS INTO FILL SECTIONS SHALL BE CONTAINED ALONG SIDE AREAS BY THE DEVELOPER WHICH WILL ALLOW PROPERTY SLOPES AWAY FROM ROADWAY, TO PREVENT CONCENTRATED DRAINAGE FROM BEING DIVERTED ONTO ADJACENT LOTS.
29. FATS OR EXCAVATION TO BE DISPOSED OF AS DIRECTED BY THE ENGINEER.



Source: Adopted from 1983 Maryland Standards for Soil Erosion and Sediment Control, and Va. DSWC

Plate 3.02-1



Source: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, Sherwood and Wyant

Plate 3.05-2 Source: Va. DSWC

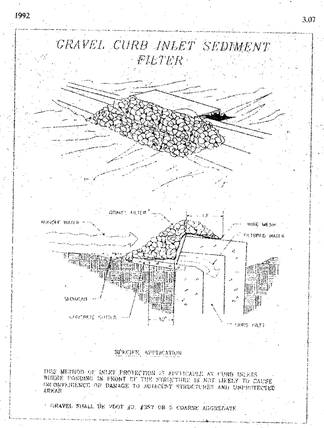
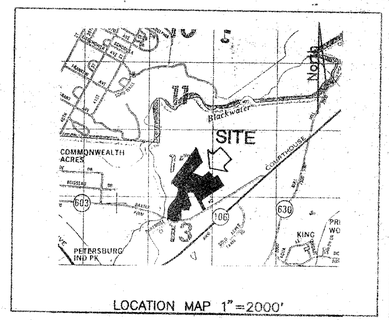
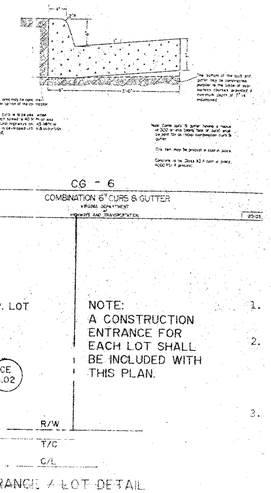


Plate 3.07-6



LOCATION MAP 1"=2000'



NOTE: LOCATION OF CONSTRUCTION ENTRANCE SHALL BE DETERMINED BY THE DEVELOPER AT TIME OF ISSUANCE OF BUILDING PERMIT.

NOTE: A CONSTRUCTION ENTRANCE FOR EACH LOT SHALL BE INCLUDED WITH THIS PLAN.

CONSTRUCTION ENTRANCE / LOT DETAIL
NOT TO SCALE

Will have che r made

Change the lateral locations for the following lots to the accompanying mannole.

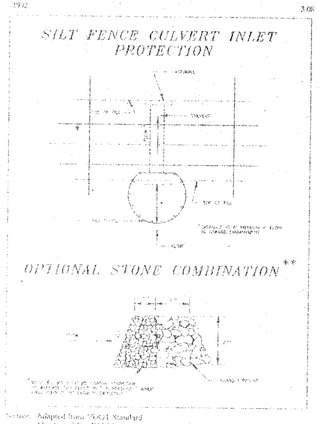
Lot	Manhole
32	502
20	503
34	503
36	504
38	508

EROSION CONTROL NARRATIVE

1) INSTALL CONSTRUCTION ENTRANCE, CE 3.01.
2) INSTALL SILT FENCE AT LOCATIONS SHOWN ON PLAN.
3) CLEAR ALL R/W'S, EASEMENTS AND AREAS TO BE REGRADED.
4) GRADE ROADS TO SUBGRADE.
5) INSTALL STORM SEWER AND ASSOCIATED INLET PROTECTION DEVICES.
6) INSTALL SANITARY SEWER.
7) INSTALL CURB AND GUTTER.
8) INSTALL WATERLINE.
9) INSTALL STONE BASE.
10) FINE GRADE AND SEEDING.
11) INSTALL ASPHALT.
12) REMOVE ALL REMAINING EROSION CONTROL DEVICES UPON STABILIZATION OF SITE.

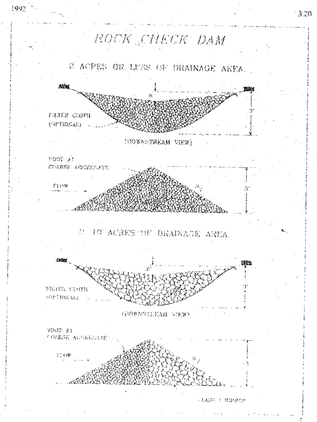
EROSION CONTROL NOTES

1. SOIL EROSION AND SEDIMENT CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE CURRENT VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION 1992.
2. PERMANENT OR TEMPORARY SOIL STABILIZATION MUST BE APPLIED TO DENUDED AREAS WITHIN SIXTY (60) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. SOIL STABILIZATION MUST ALSO BE APPLIED WITHIN SIXTY (60) DAYS TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN SIXTY (60) DAYS.
3. THE COUNTY OF PRINCE GEORGE 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 PLAN. THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MAY BE MODIFIED 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 PLAN CAN NOT BE CARRIED OUT.
4. ALL EROSION CONTROL DEVICES SHALL BE INSPECTED DAILY BY THE SITE FOREMAN. ANY STRUCTURES THAT ARE DAMAGED OR INOPERATIVE WILL BE IMMEDIATELY REPAIRED OR REPLACED.



Source: Adapted from 1983 Maryland Standards and Va. DSWC

Plate 3.08-1

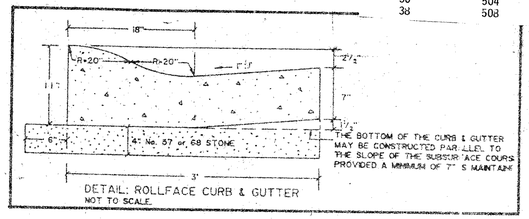


Source: Va DSWC

Plate 3.20-1

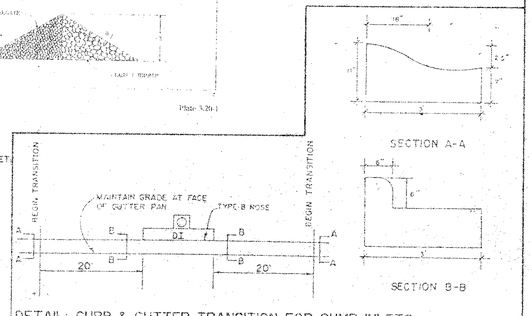
GENERAL NOTES CONTINUED

30. ALL FIRE HYDRANTS SHALL BE O.S.H.A. YELLOW IN COLOR.
31. A "W" AND "S" SHALL BE STAMPED ON THE CURB WHILE THE CONCRETE IS STILL WET. THESE MARKS SHALL INDICATE THE ACTUAL LOCATION OF THE WATER AND SEWER CONNECTIONS FOR EACH LOT.
32. METER BOXES PROVIDED SHALL BE CAST IRON 12"X8" WITH CAST IRON LIDS. THE METER ASSEMBLIES ARE TO BE SUPPLIED WITH NEPTUNE PROREAD ARB SYSTEMS ATTACHED TO THE LID. METERS ARE TO BE COMPATIBLE WITH THE PROPOSED SYSTEM.

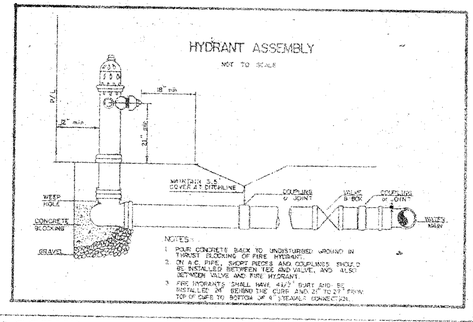


THE BOTTOM OF THE CURB & GUTTER MAY BE CONSTRUCTED PARALLEL TO THE SLOPE OF THE SUBSURFACE COURSE PROVIDED A MINIMUM OF 7" S MAINTAINED

DETAIL: ROLLFACE CURB & GUTTER
NOT TO SCALE.



DETAIL: CURB & GUTTER TRANSITION FOR SUMP INLETS.
NOT TO SCALE



LEGEND

ROAD AND DRAINAGE

- CULVERT OR STORM SEWER (WITH STRUCTURE NO.)
- EXISTING CULVERT OR STORM SEWER PIPE
- DROP INLET & STRUCTURE NO.
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PAVED DITCH
- JUTE MESH OR SODDED DITCH
- EARTH DITCH - GRASS LINED
- 100 EXISTING CONTOUR
- 100 PROPOSED CONTOUR
- X T/C / 100 PROPOSED SPOT ELEVATIONS (T/C - TOP OF CURB)
- BM BENCH MARK & REFERENCE NO.
- S VDOT STANDARD STOP SIGN

SEWER

- SS EXISTING SANITARY SEWER
- SS PROPOSED SANITARY SEWER
- SS SANITARY SEWER SERVICE CONNECTIONS
- S 4+00 SS 150.00 CO MANHOLE NO. W. STATION NO. CONDUIT LOCATION

WATER

- EXISTING WATERLINE
- PROPOSED WATERLINE
- PROPOSED WATERLINE SERVICE CONNECTIONS
- GATE VALVE
- F.H.S. HYDRANT ASSEMBLY
- TEE OR TAPPING SLEEVE
- CROSS
- BLIND CAP
- REDUCER
- 90° CROSSING

EROSION CONTROL

- CE 3.01 EROSION CONTROL DEVICE WITH SPEC. NUMBER AS PER VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK SPECIFICATION NUMBER.
- SILT FENCE
- MULCH PROTECTION
- CONSTRUCTION ENTRANCE
- TEMPORARY DIVERSION DIKE
- TEMPORARY SEDIMENT TRAP
- DRAINAGE DIVERSION

APPROVED FOR CONSTRUCTION
SUBJECT TO INSPECTION BY COUNTY ENGINEER
DATE September 27, 1996

APPROVAL FOR:
STORMWATER MANAGEMENT 9/27/96
WATER DISTRIBUTION 9/27/96
SANITARY SEWER COLLECTION 9/27/96
EROSION AND SEDIMENT CONTROL 9/27/96
CHESAPEAKE BAY COMPLIANCE

APPROVED BY: Stephen E McBride
COUNTY ENGINEER

* As Noted Above

CHARLES C. TOWNES & ASSOCIATES, P.C.
Engineers, Planners, Land Surveyors
9842 Lom Road, Suite 201
Chesterfield, Virginia 23832
(804) 526-[illegible]

COMMONWEALTH OF VIRGINIA
STEPHEN E. McBRIDE
No. 07004
PROFESSIONAL ENGINEER

SECTIONS FOUR AND FIVE
BAXTER RIDGE
RIVES DISTRICT
PRINCE GEORGE COUNTY, VIRGINIA

COVER SHEET

REVISIONS
DATE 7/17/96 REM.

FINAL

DATE 9/20/96
SCALE 1" = 1'
DRAWN BY
CHECKED BY

SHEET 1 OF 8