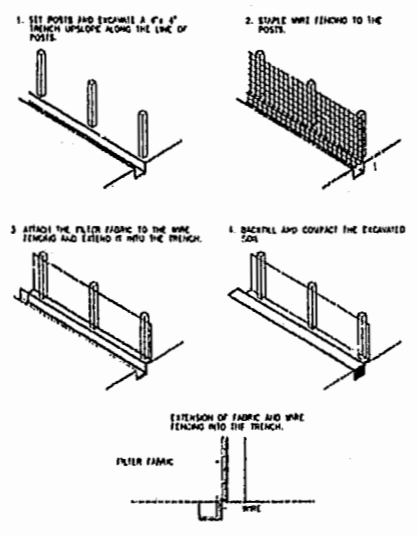


EROSION AND SEDIMENT CONTROL NOTES

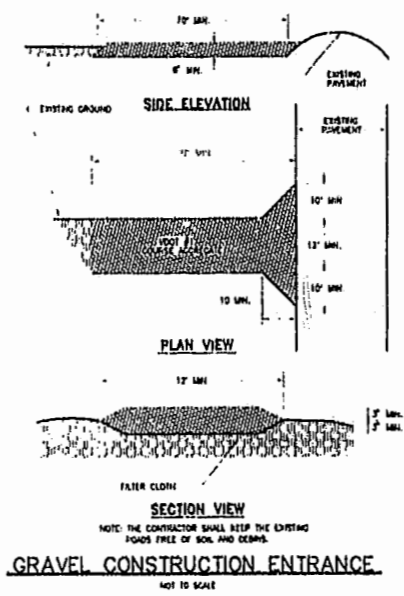
The purpose of the erosion control measures shown on these plans shall be to preclude the transport of all waterborne sediments resulting from construction activities from entering onto adjacent properties or State waters. If field inspection reveals the inadequacy of the plan to confine sediment to the project site, appropriate modifications will be made to correct any plan deficiencies. In addition to these notes, all provisions of the Virginia Erosion and Sediment Control Regulations shall apply to this project.

- All erosion and sediment control measures shall be installed and maintained in accordance with the "Virginia Erosion and Sediment Control Handbook." The Contractor shall be thoroughly familiar with all applicable measures contained therein which may be pertinent to this project. All standards and specifications referred to in these notes are from the "Virginia Erosion and Sediment Control Handbook".
- All points of construction ingress and egress shall be protected by a temporary construction entrance to prevent tracking of mud onto public right-of-ways. An entrance permit from the Virginia Department of Transportation is required prior to any construction activities within State right-of-ways.
- Sediment basins and traps, perimeter dikes, sediment barriers and other measures intended to trap sediment on-site must be constructed as a first step in grading and be made functional before upslope land disturbance takes place. Earthen structures such as dams, dikes, and diversions must be seeded and mulched immediately after installation. An on-site preconstruction meeting will be held between the Office of Code Compliance and the Contractor to identify these measures to be initially installed.
- Maintenance of erosion and sediment control measures shall include the repair of measures damaged by any subcontractor including those of the public utility companies. At the preconstruction meeting, the Contractor will supply Code Compliance with the name of the individual who will be responsible for ensuring maintenance of installed measures on a daily basis.
- Surface flows over cut and fill slopes shall be controlled by either redirecting flows from transverse the slopes or by installing mechanical devices to safely lower water downslope without causing erosion. A temporary fill diversion (Standard and Specification 1.16) shall be installed prior to the end of each working day.
- Sediment control measures may require minor field adjustments at the time of construction to insure their intended purpose is accomplished. Office of Code Compliance approval will be required for other deviations from the approved plans.
- The Contractor shall place soil stockpiles at the locations shown on this plan or as directed by the Engineer. Soil stockpiles shall be stabilized or protected with sediment trapping measures.
- The Contractor shall complete drainage facilities within 30 days following completion of rough grading at any point within the project. The installation of drainage facilities shall take precedence over all underground utilities. Outfall ditches from drainage structures shall be stabilized immediately after construction of same. This includes installation of erosion control stone where required. Any drainage outfalls required for a street must be completed before street grading begins.
- Permanent or temporary soil stabilization must be applied to all denuded areas within 7 days after final grade is reached on any portion of the site. Soil stabilization must also be applied to denuded areas which may not be at final grade but will remain dormant (undisturbed) for longer than 30 days. Soil stabilization measures include vegetative establishment, mulching and the early application of gravel base material on areas to be paved.
- No more than 300 feet of sanitary sewer, storm sewer, water lines, or underground utility lines are to be open at one time. Following installation of any portion of these items, all disturbed areas are to be immediately stabilized (i.e. the same day).
- If disturbed area stabilization is to be accomplished during the months of December, January, or February, stabilization shall consist of mulching in accordance with Specification 1.75. Seeding will then take place as soon as the season permits.
- The terms Seeding, Final Vegetative Cover, or Stabilization, on this plan shall mean the successful germination and establishment of a stable grass cover from a properly prepared seedbed containing the specified amounts of seed, lime, and fertilizer in accordance with Specification 1.66. Permanent Seeding, Irrigation shall be required as is necessary to ensure establishment of grass cover.
- All slopes steeper than 3:1 shall require the use of erosion control blankets such as Excelsior Blankets to aid in the establishment of a vegetative cover. Installation shall be in accordance with Specification 1.75, Mulching and Manufacturer's instructions.

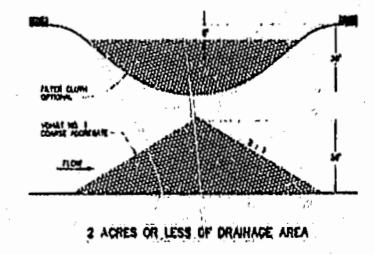
- Inlet protection in accordance with Specification 1.08 shall be provided for all storm drain inlets as soon as practical following the construction of same.
- Temporary liners, such as polyethylene sheets, shall be provided for all paved ditches until the permanent concrete liner is installed.
- Paved ditches shall be required wherever erosion is evident. Particular attention shall be paid to those areas where grades exceed 3 percent.
- Temporary erosion control measures are not to be removed until all disturbed areas are stabilized. After stabilization is complete, all measures shall be removed within 30 days. Trapped sediment shall be spread and seeded.
- Off-site waste or borrow areas shall be approved by the Office of Code Compliance prior to the import of any borrow or export of any waste to or from the project site.
- All paved and/or piped outfalls will be constructed before road grading and utility installation begins.



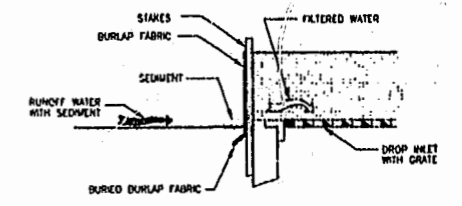
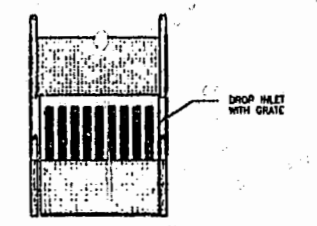
CONSTRUCTION OF A SILT FENCE
NOT TO SCALE



GRAVEL CONSTRUCTION ENTRANCE
NOT TO SCALE

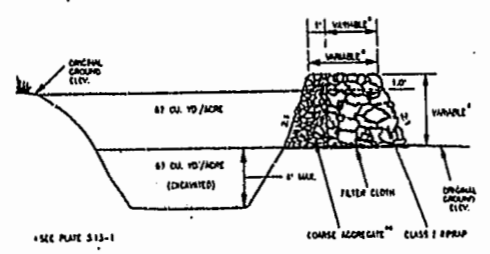


ROCK CHECK DAM
NOT TO SCALE

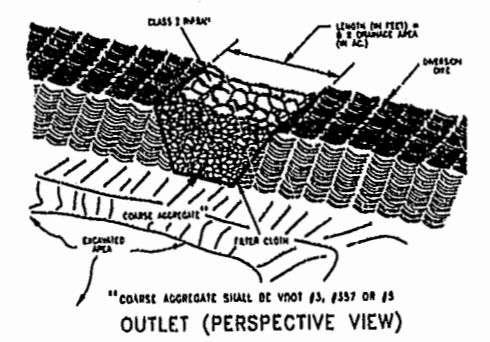


SPECIFIC APPLICATION
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5%) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDANS.

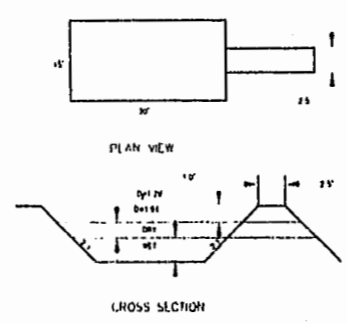
INLET PROTECTION
NOT TO SCALE



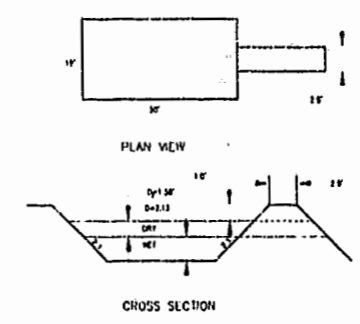
CROSS SECTION OF OUTLET



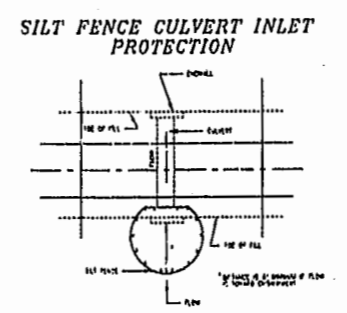
TEMPORARY SEDIMENT TRAP
NOT TO SCALE



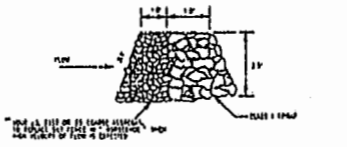
SEDIMENT TRAP NO. 1
NOT TO SCALE



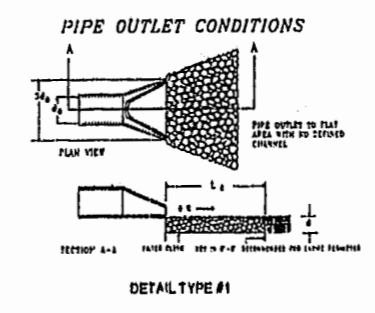
SEDIMENT TRAP NO. 2
NOT TO SCALE



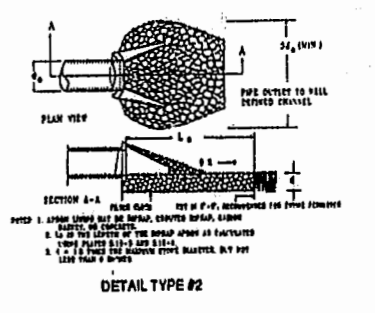
OPTIONAL STONE COMBINATION



CULVERT INLET PROTECTION
NOT TO SCALE



DETAIL TYPE #1



DETAIL TYPE #2

OUTLET PROTECTION
NOT TO SCALE

OUTLET PROTECTION	LENGTH La	WIDTH W	d(50)	DETAIL #
1	20'	23'	0.7'	1
2	20'	23'	0.7'	1
3	12'	14.25'	0.8'	1
4	10'		0.5'	2
5	9'		0.8'	2

Recorded 12:17 p.m. 244 day of May, 1991
D.B. No. 439 pages 67
Clerk

