

Diagram illustrating the cross-section of a trench wall reinforcement system. The system consists of a wire mesh attached to a vertical post, with filter fabric extending into the trench. The dimensions shown are 4.0' for the height of the wire mesh, 5.0' for the height of the filter fabric, and 10' for the width of the trench. The labels include 'Wire', 'Filter Fabric', 'Post', 'Extend Fabric and Wire Into Trench', and 'CROSS-SECTION'.

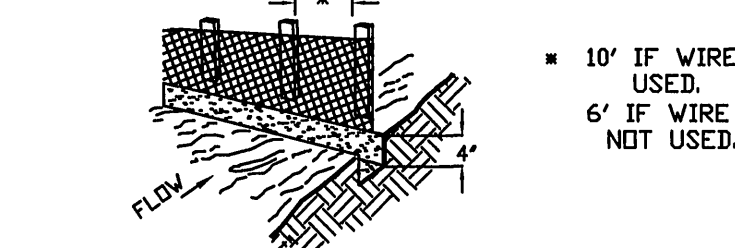
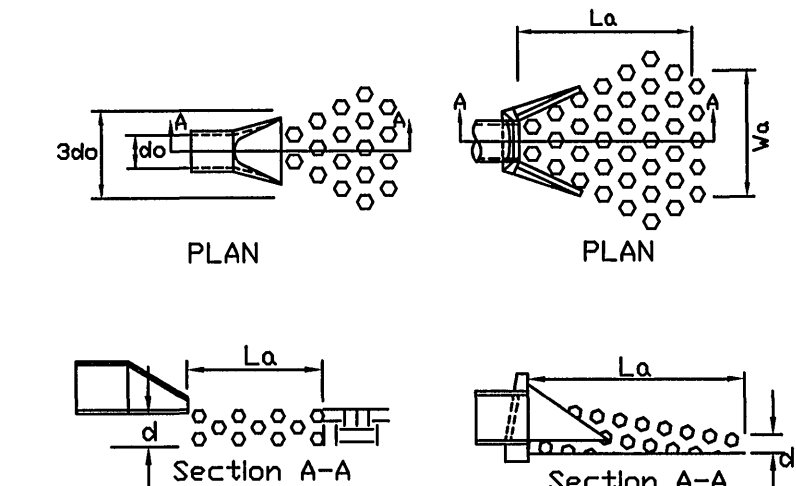


Diagram illustrating the construction of a washboard or wash rack for VDOT #1 Coarse Aggregate. The structure is shown with a hard surface and a public road. The wash rack is constructed with a filter cloth and a ditch to sediment basin or trap. The dimensions are specified as 10' min. for the top section, 70' Min. for the main section, and 10' min. for the bottom section. The text indicates that a washboard or wash rack should be constructed if required, and refers to Table 302-A of the Virginia E3C Handbook for requirements.

CE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



PIPE OUTLET TO FLAT AREA PIPE OUTLET TO
WITH NO DEFINED CHANNEL WELL-DRAINLED CHANNEL

- NOTES
1. APRON LINING MAY BE RIP-RAP, GROUDED RIP-RAP, OR CONCRETE.
 2. L_a IS THE LENGTH OF THE RIP-RAP APRON AS CALCULATED USING PLATES 1.36d AND 1.36e.
 3. $d = 1.5$ TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6'.

Diagram illustrating the design high water level (66-yr. storm elevation) and the structure components for wet storage. The structure includes a riser crest, a dewatering device, and a sediment cleanout point. The design high water level is indicated by a dashed line. The structure is labeled with "DESIGN HIGH WATER (66-YR. STORM ELEV.)", "MIN. 10'", "CREST OF EMERGENCY SPILLWAY", "RISER CREST", "DEWATERING DEVICE", "SEDIMENT CLEANOUT POINT", "67 C.Y./AC 'DRY' STORAGE", "67 C.Y./AC 'WET' STORAGE", and "TO 24 C.Y./AC/ST".

SPECIFIC APPLICATION

This method of inlet protection is applicable where heavy concentrated flows are but not where ponding around the structure might cause excessive inconvenience to adjacent structures and unprotected areas.

* Gravel shall be VDOT #3, #357 or #5 coarse aggregate.

IP GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER

DEFINITION - THE ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER ON DISTURBED AREAS BY SEEDING WITH APPROPRIATE RAPIDLY GROWING ANNUAL PLANTS.

LIMING REQUIREMENTS FOR TEMPORARY SITES

RECOMMENDED APPLICATION		
OH TEST	AC	AGRICULTURAL LIMESTONE
BUILD 4.2	3	TONS PER ACRE
4.2 TO 5.2	4	TONS PER ACRE
5.2 TO 6	1	TUN PER ACRE

ACCEPTABLE TEMPORARY SEEDING PLANT MATERIAL
 * QUICK RECOVERY FOR ALL REGIONS*

PLANTING DATES	SPECIES	RATE (LBS/ACRE)
SEPT. 1 - FEB. 15	50/50 MIX OF ANNUAL RYEGRASS & WINTER YRGE	50 - 100
FEB. 16 - APR. 30	ANNUAL RYEGRASS	50 - 100
MAY. 1 - AUG. 31	GERMAN MILLET	60

TS TEMPORARY SEEDING

TYPE A	TYPE B (SLOPES 3:1 OR STEEPER)
15 FEBRUARY TO 1 FEBRUARY K-31 FESCUE @ 5 LB / 1000 SF BORZY WINTER RYE @ 1/2 LB / 1000 SF	15 MARCH TO 1 MAY CROWN VETCH @ 1/2 LB / 1000 SF PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF RED TOP @ 1/8 LB / 1000 SF
1 FEBRUARY TO 1 JUNE K-31 FESCUE @ 5 LB / 1000 SF ANNUAL RYE @ 1/2 LB / 1000 SF	15 AUGUST TO 1 OCTOBER CROWN VETCH @ 1/2 LB / 1000 SF PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF RED TOP @ 1/8 LB / 1000 SF
1 JUNE TO 1 SEPTEMBER K-31 FESCUE @ 5 LB / 1000 SF GERMAN MILLET @ 1/2 LB / 1000 SF	
1 SEPTEMBER TO 15 OCTOBER K-31 FESCUE @ 5 LB / 1000 SF ANNUAL RYE @ 1/2 LB / 1000 SF	

LIME: 140 LB / 1000 SF PULVERIZED AGRICULTURAL LIMESTONE
FERTILIZER: 5-20-10 @ 25 LB / 1000 SF
38-0-0 @ 7 LB / 1000 SF

MULCH: IF REQUIRED, SHALL BE USED OVER ALL SEEDING AREAS AND SHALL BE APPLIED IN ACCORDANCE WITH SECTION 1.75 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.

SOIL CONDITIONING:
INCORPORATION OF LIME AND FERTILIZER, SELECTION OF CERTIFIED SEED, MULCHING, MAINTENANCE OF NEW SEEDLINGS, AND RESEEDING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE VIRGINIA SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. ADDITIONAL SEEDING TO BE PERFORMED AS REQUIRED BY THE INSPECTOR.

SEED APPLICATION: APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER ON A FIRM, FRIABLE, SEEDBED. MAXIMUM SEEDING DEPTH SHALL BE 1/4 INCH.

PS PERMANENT SEEDING MIXTURE

2 ACRES OR LESS OF DRAINAGE AREA

2-10 ACRES OF DRAINAGE AREA

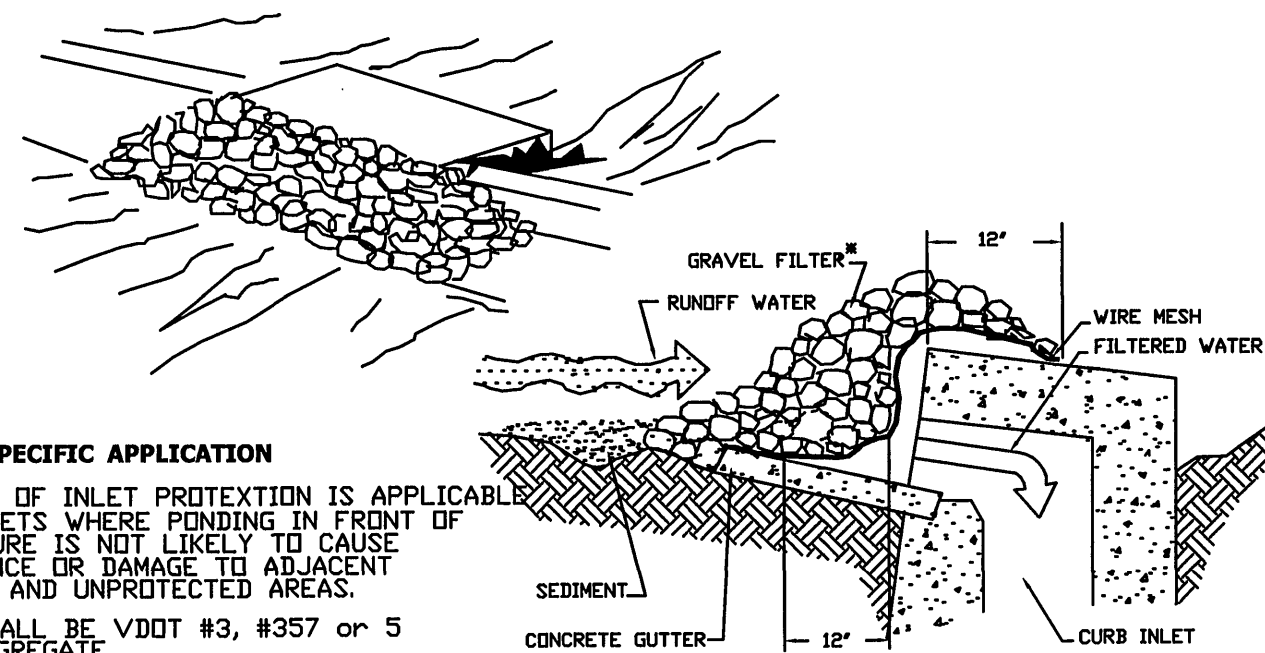
FILTER CLOTH (OPTIONAL)

VDOT #1

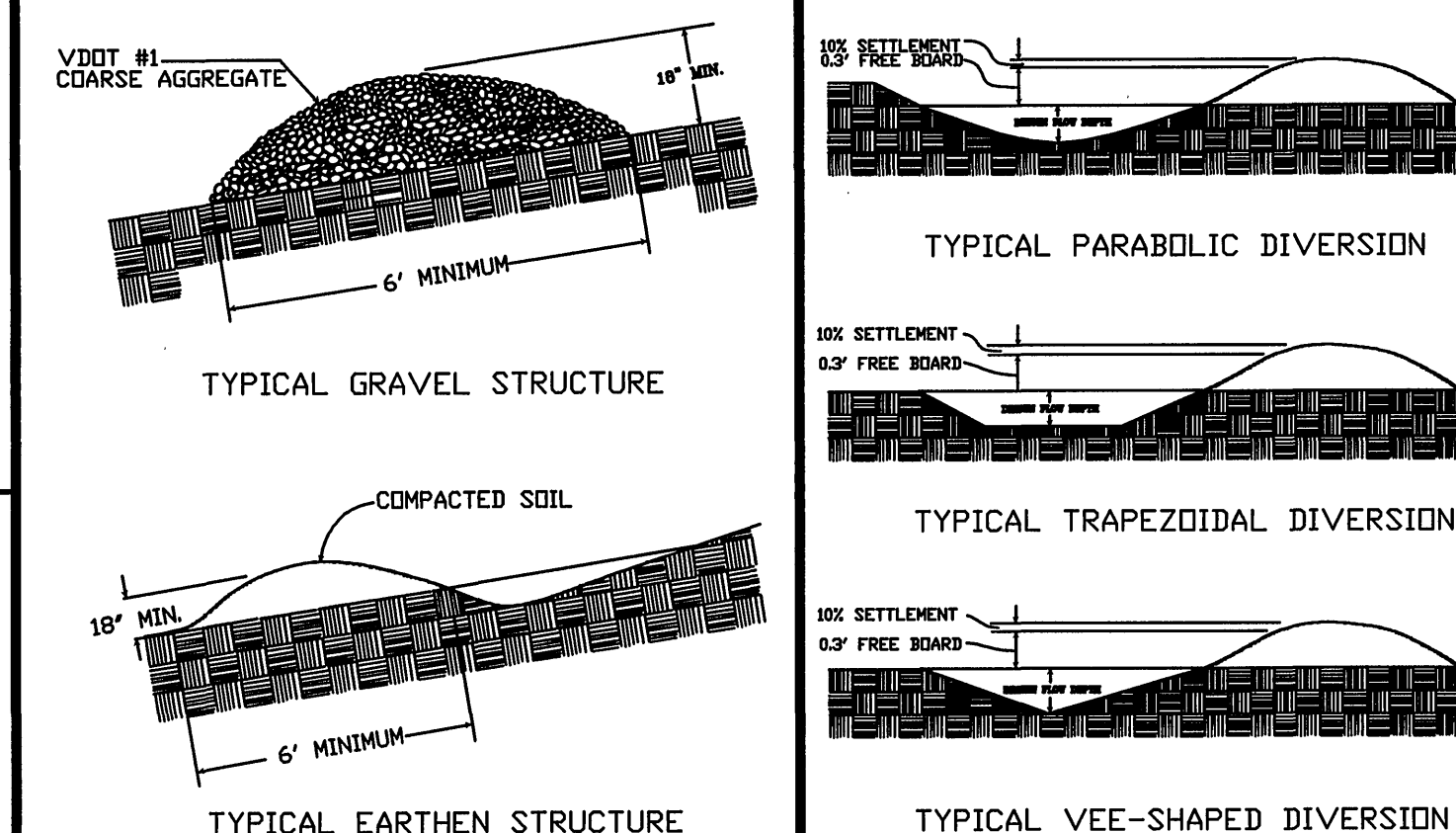
COARSE AGGREGATE

FLOW

CD **ROCK CHECK DAM**

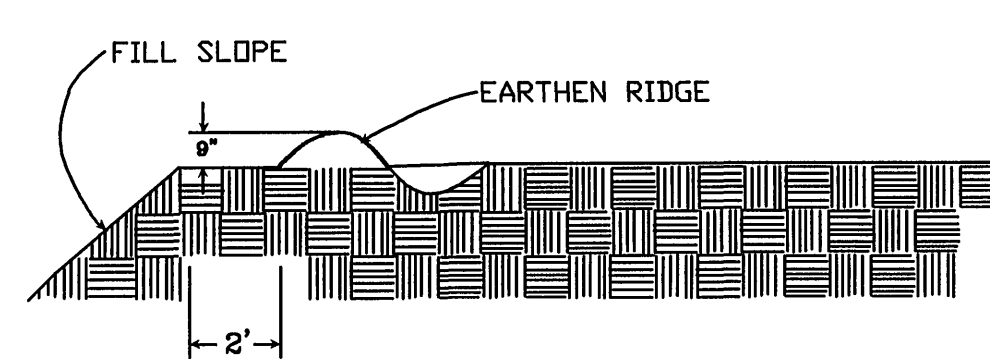


IP GRAVEL CURB INLET SEDIMENT FILTER



RWD TEMPORARY RIGHT-OF-WAY DIVERSIONS

DV **DIVERSIONS**



FD **TEMPORARY FILL
DIVERSION**

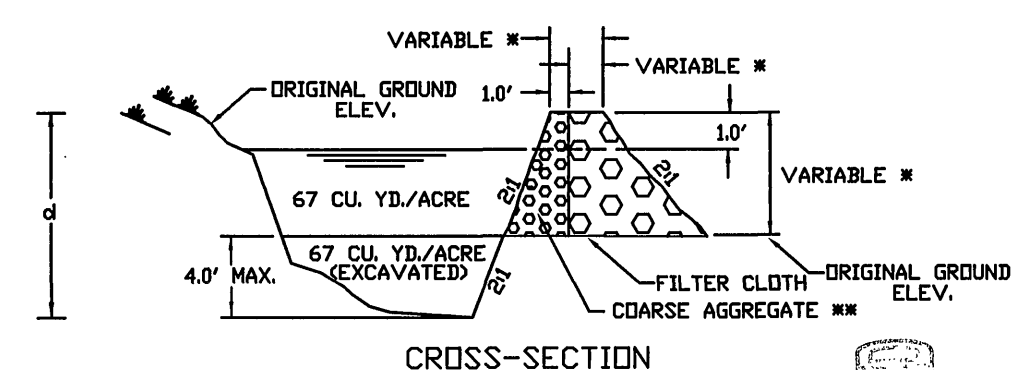
ALL COSTS GIVEN ARE COMPLETE IN PLACE

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
SF	LF	156	\$ 3.00	\$ 468.00
PS	1000 SF	4.892	55.10	269.55
TS	1000 SF	4.892	41.32	202.14
SUB-TOTAL				\$ 939.69
25% CONTINGENCY				\$ 234.31
TOTAL PROJECT COST				\$ 1,174.00

GENERAL EROSION AND SEDIMENT CONTROL NOTES

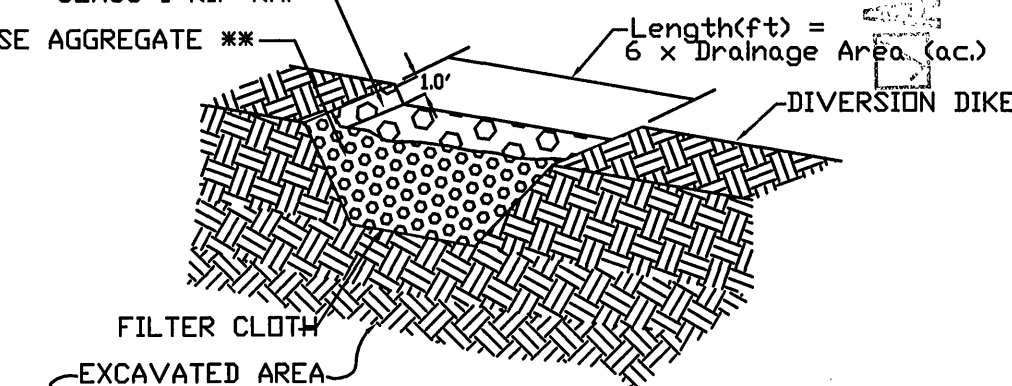
1. ALL SOIL EROSION & SEDIMENT CONTROL MEASURES SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
2. THE APPROVING AUTHORITY MAY ADD TO, DELETE, RELOCATE, CHANGE, OR OTHERWISE MODIFY EROSION AND SEDIMENT CONTROL MEASURES WHERE THE CONDITIONS ARE ENCOUNTERED THAT WARRANT SUCH MODIFICATIONS.
3. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLAN SHALL BE PLACED IN ADVANCE OF THE WORK BEING PERFORMED, AS FAR AS PRACTICAL.
4. IN NO CASE DURING CONSTRUCTION SHALL WATER RUNOFF BE DIVERTED OR ALLOWED TO FLOW TO LOCATIONS WHERE ADEQUATE PROTECTION HAS NOT BEEN PROVIDED.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LEAVE THE SITE ADEQUATELY PROTECTED AGAINST EROSION, SEDIMENTATION, OR ANY DAMAGE TO ANY ADJACENT PROPERTY AT THE END OF EACH DAY'S WORK.
6. FOR THE EROSION CONTROL KEY SYMBOLS SHOWN ON THE PLANS, REFER TO THE VIRGINIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. THESE SYMBOLS AND KEYS ARE TO BE UTILIZED ON ALL EROSION CONTROL PLANS SUBMITTED TO ROANKE COUNTY.
7. THE LOCATION OF ALL OFF-SITE FILL OR BORROW AREAS ASSOCIATED WITH THE CONSTRUCTION PROJECT WILL BE PROVIDED TO ROANKE COUNTY DEPARTMENT OF COMMUNITY DEVELOPMENT. AN EROSION CONTROL PLAN OR MEASURES MAY BE REQUIRED FOR THIS AREA.
8. THIS SHEET MAY NOT BE MODIFIED EXCEPT FOR TABLES

TOTAL DISTURBED AREA = 0.11 AC. = 4,892 SQ. FT.



* SEE PLATE 3.13-1

CLASS I RIP-RAP



** COARSE AGGREGATE SHA
 BE VDOT #3.#357 OF#5

NOTE;
FOR AREAS LESS THAN 3.0 ACRES. FOR AREAS
LARGER THAN 3.0 ACRES A SEDIMENT BASIN
IS REQUIRED. SEE DETAIL THIS SHEET.

