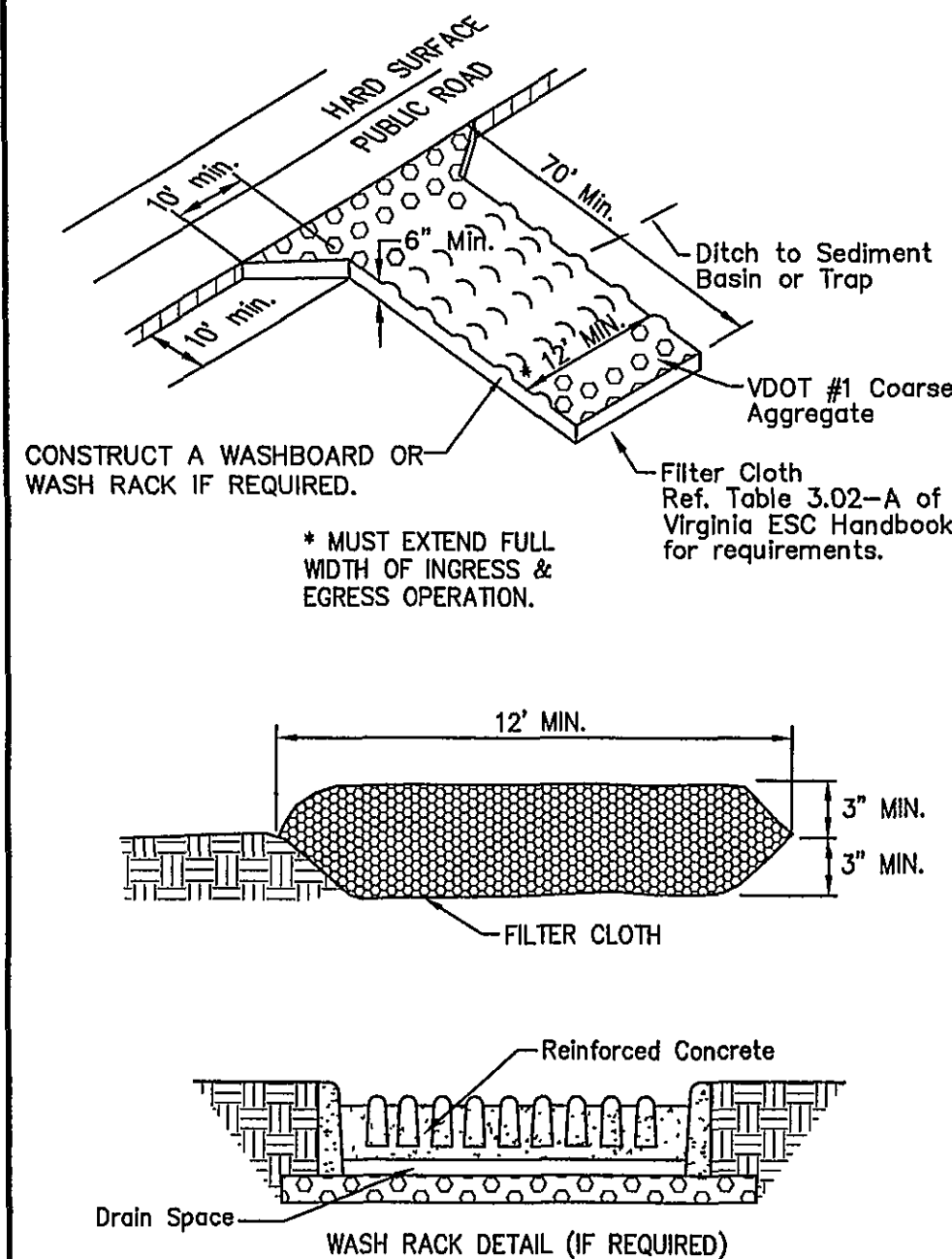
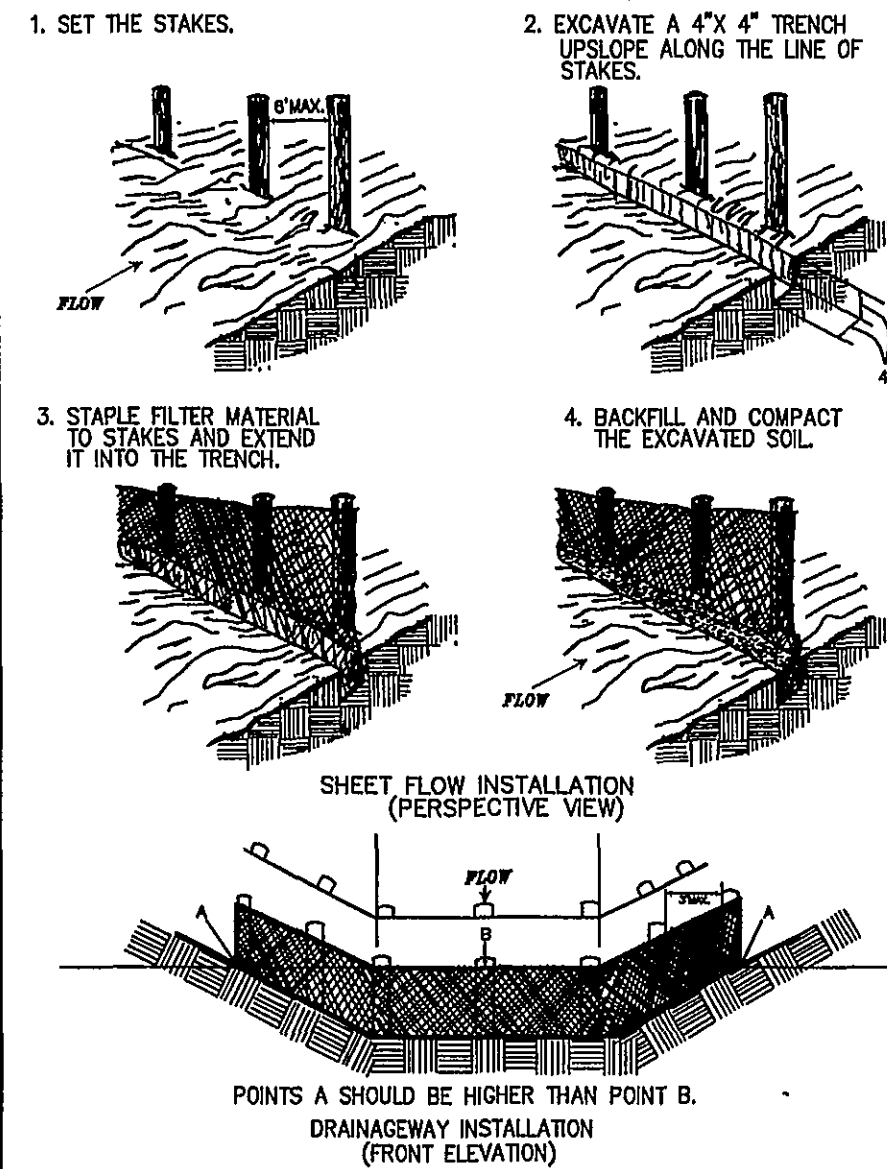


**(CE) TEMPORARY GRAVEL CONSTRUCTION ENTRANCE**

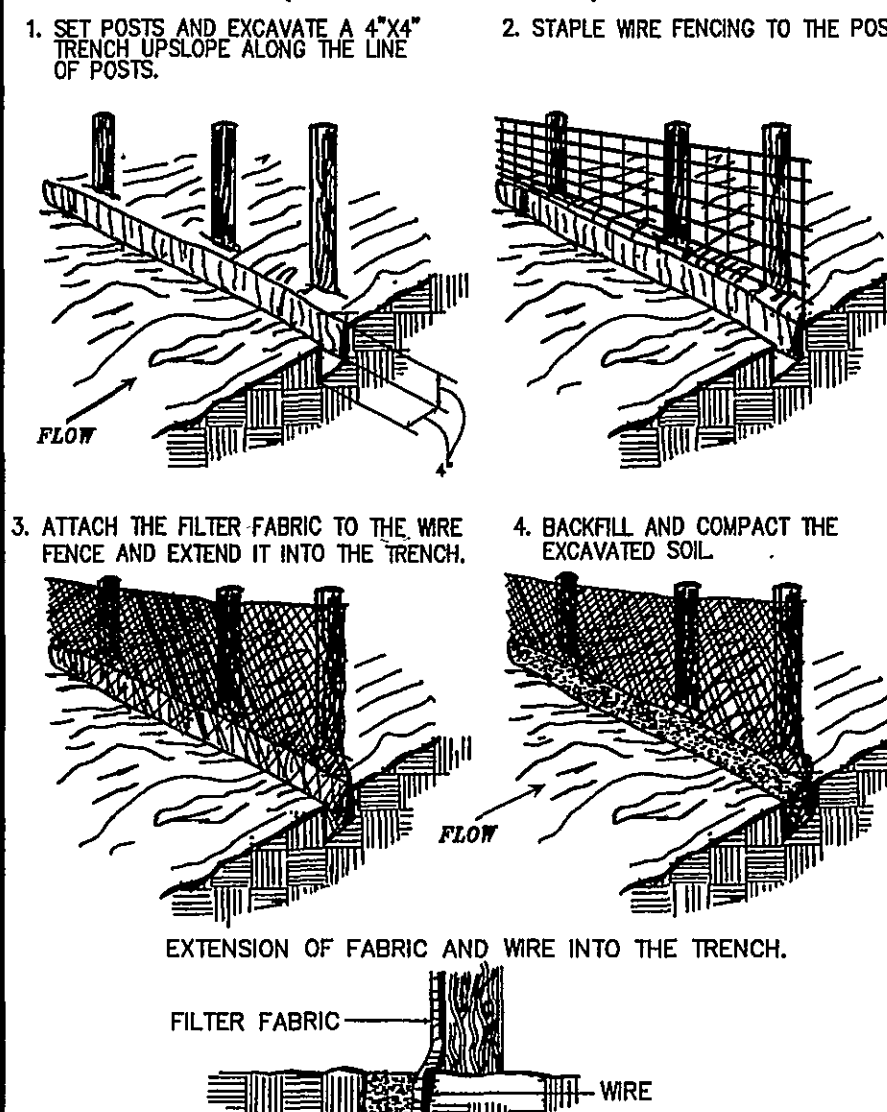


**(SF) SILT FENCE**

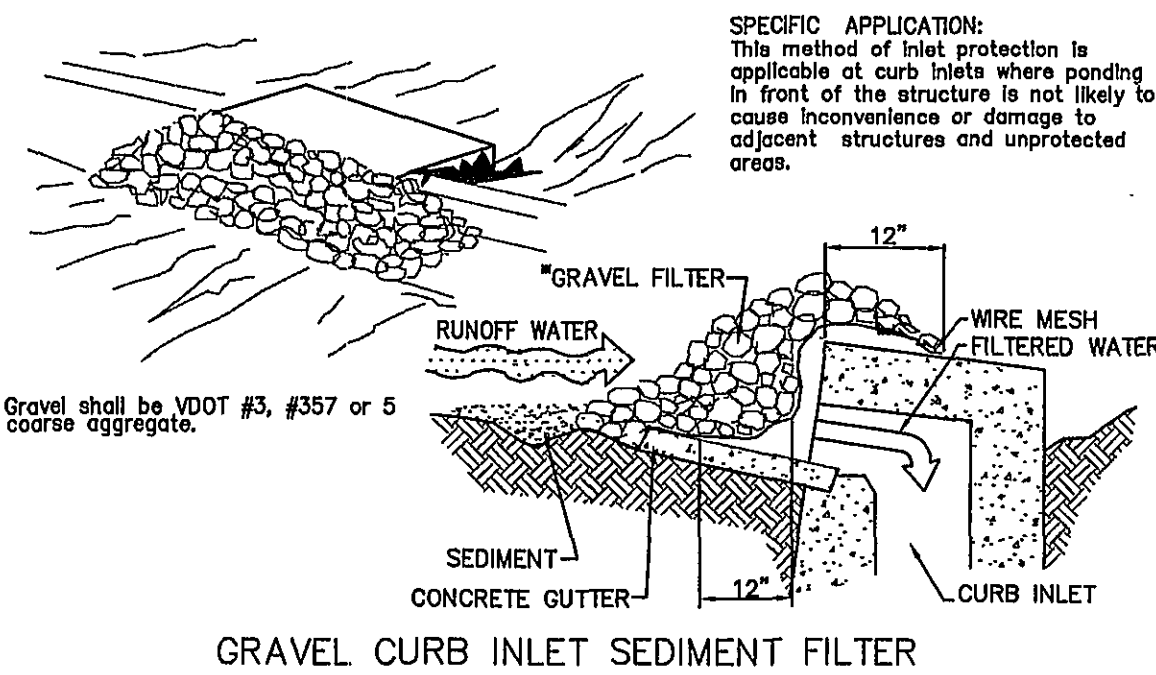
CONSTRUCTION OF A SILT FENCE (WITHOUT WIRE SUPPORT)



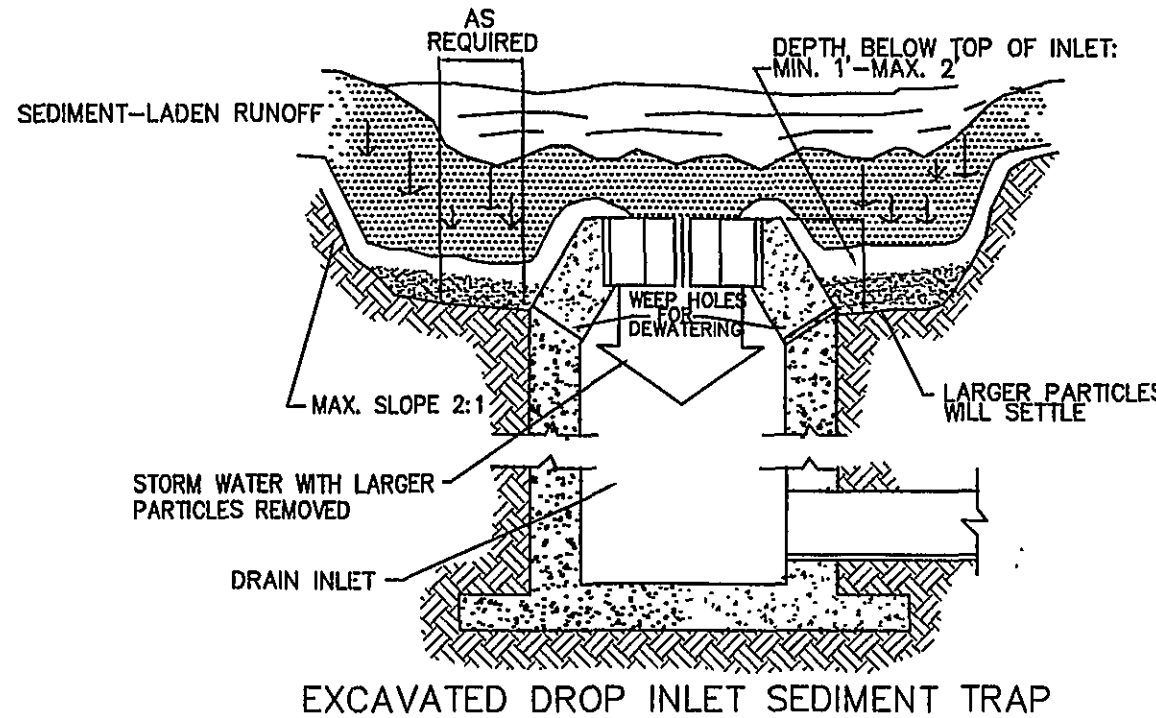
CONSTRUCTION OF A SILT FENCE (WITH WIRE SUPPORT)



**(IP) INLET PROTECTION**



SPECIFIC APPLICATION: This method of inlet protection is applicable where heavy flows are expected and where an over-flow capability and ease of maintenance are desirable.



**(TS) TEMPORARY SEEDING**

DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A PERIOD OF MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING MEASURES AS SHOWN HEREON, AND AS FURTHER DETAILED AS "STANDARD AND SPECIFICATION 3.31 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK", LATEST EDITION. IN ADDITION TO AREAS OF GENERAL GRADING THAT WILL NOT BE FINE-GRADED FOR GREATER THAN 30 DAYS, THE FOLLOWING SPECIFIC E&S MEASURES SHALL BE STABILIZED WITH TEMPORARY SEEDING IMMEDIATELY UPON COMPLETION OF CONSTRUCTION OF THE TEMPORARY MEASURE:

- SOIL STOCKPILES
- DIKES, DAMS, AND SIDES OF SEDIMENT BASINS
- TEMPORARY ROADWAY EMBANKMENTS

PRIOR TO SEEDING, INSTALL NECESSARY EROSION CONTROL PRACTICES SUCH AS DIKES, WATERWAYS, AND BASINS. PROVIDE PLANTS AS SPECIFIED HEREIN, OR ENGINEER-APPROVED EQUAL.

SEEDBED PREPARATION: LINE SHALL BE APPLIED IF DISTURBED AREAS WILL REMAIN DORMANT BETWEEN 30 DAYS AND 120 DAYS. IF REQUIRED, LINE SHALL BE APPLIED AS SHOWN, BASED ON SOIL ACIDITY.

APPLICATION OF AGRICULTURAL LIMESTONE	
pH	
BELOW 4.2	3 TONS PER ACRE
4.2 TO 5.2	2 TONS PER ACRE
5.2 TO 6.0	1 TON PER ACRE
ABOVE 6.0	LIME NOT REQUIRED

FERTILIZER SHALL BE APPLIED AS 600 LBS/ACRE OF 10-20-10 OR EQUIVALENT NUTRIENTS. LIME (AS APPLICABLE) AND FERTILIZER SHALL BE INCORPORATED INTO THE TOP 2 TO 4 INCHES OF SOIL, IF POSSIBLE.

SURFACE ROUGHENING SHALL BE REQUIRED WHERE AREAS TO BE SEEDS HAVE BEEN COMPACTED, CRUSTED, OR HARDENED BY CONSTRUCTION TRAFFIC. AS REQUIRED, SEEDBEDS SHALL BE ROUGHENED IN ACCORDANCE WITH STANDARD AND SPECIFICATION 3.29 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. (TRACKING WITH BULLDOZER CLEATS SHALL BE USED IN SANDY SOILS)

SEEDING: SEED SHALL BE EVENLY APPLIED WITH THE SAME MEANS SPECIFIED HEREIN FOR PERMANENT SEEDING. SMALL GRAINS SHALL BE PLANTED NO MORE THAN ONE INCH DEEP. GRASSES AND LEGUMES SHALL BE PLANTED WITH NO LESS THAN 1/4" OF SOIL COVER.

MULCHING: SEEDINGS MADE IN FALL FOR WINTER COVER AND DURING HOT AND DRY SUMMER MONTHS SHALL BE MULCHED ACCORDING TO STANDARD AND SPECIFICATION 3.35 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, EXCEPT THAT FIBER MULCH MAY NOT BE USED. STRAW MULCH SHALL BE USED DURING THESE PERIODS.

TEMPORARY SEEDINGS MADE UNDER FAVORABLE SOIL AND SITE CONDITIONS DURING OPTIMUM SPRING AND FALL SEEDING DATES MAY NOT REQUIRE MULCH.

RE-SEEDING: AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER ADEQUATE TO PREVENT RILL EROSION SHALL BE RE-SEEDS AS SOON AS SUCH AREAS ARE IDENTIFIED.

ACCEPTABLE TEMPORARY SEEDING PLANT MATERIALS BY RANGE OF PLANTING DATES:

PLANTING DATES	PLANT MATERIALS
09/01 TO 02/15	ANNUAL RYEGRASS @ 50 LB / ACRE
02/16 TO 04/30	WINTER RYE @ 50 LB / ACRE
05/01 TO 08/31	ANNUAL RYEGRASS @ 100 LB / ACRE GERMAN MILLET @ 50 LB / ACRE

**(PS) PERMANENT SEEDING**

DISTURBED AREAS SHALL BE PERMANENTLY SEEDS WITHIN SEVEN (7) DAYS OF ACHIEVING FINAL GRADE, OR ON DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE WITHIN ONE YEAR.

**TYPE A**

03/15 TO 05/15 OR 08/16 TO 10/31:  
ANNUAL RYEGRASS @ 20 LB / ACRE  
RED TOP @ 2 LB / ACRE  
TALL FESCUE @ 150 LB / ACRE

05/16 TO 08/15:  
FOXTAIL MILLET @ 20 LB / ACRE  
RED TOP @ 20 LB / ACRE  
TALL FESCUE @ 150 LB / ACRE

11/01 TO 02/28:  
WINTER RYE @ 20 LB / ACRE  
RED TOP @ 20 LB / ACRE  
TALL FESCUE @ 150 LB / ACRE

LIME: 140 LB / ACRE PULVERIZED AGRICULTURAL LIMESTONE

FERTILIZER: 5-20-10 @ 25 LB / ACRE  
38-0-0 @ 7 LB / ACRE

MULCH: SHALL BE USED OVER ALL SEEDS AREAS AND SHALL BE APPLIED IN STRICT ACCORDANCE WITH STANDARD AND SPECIFICATION 3.35 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 SEEDINGS, 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 CITY ENGINEER.

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.

**(TO) TOPSOILING**

NO APPLICABLE DETAILS APPLY. REFER TO SPECIFICATION 3.30 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION FOR SPECIFIC REQUIREMENTS.

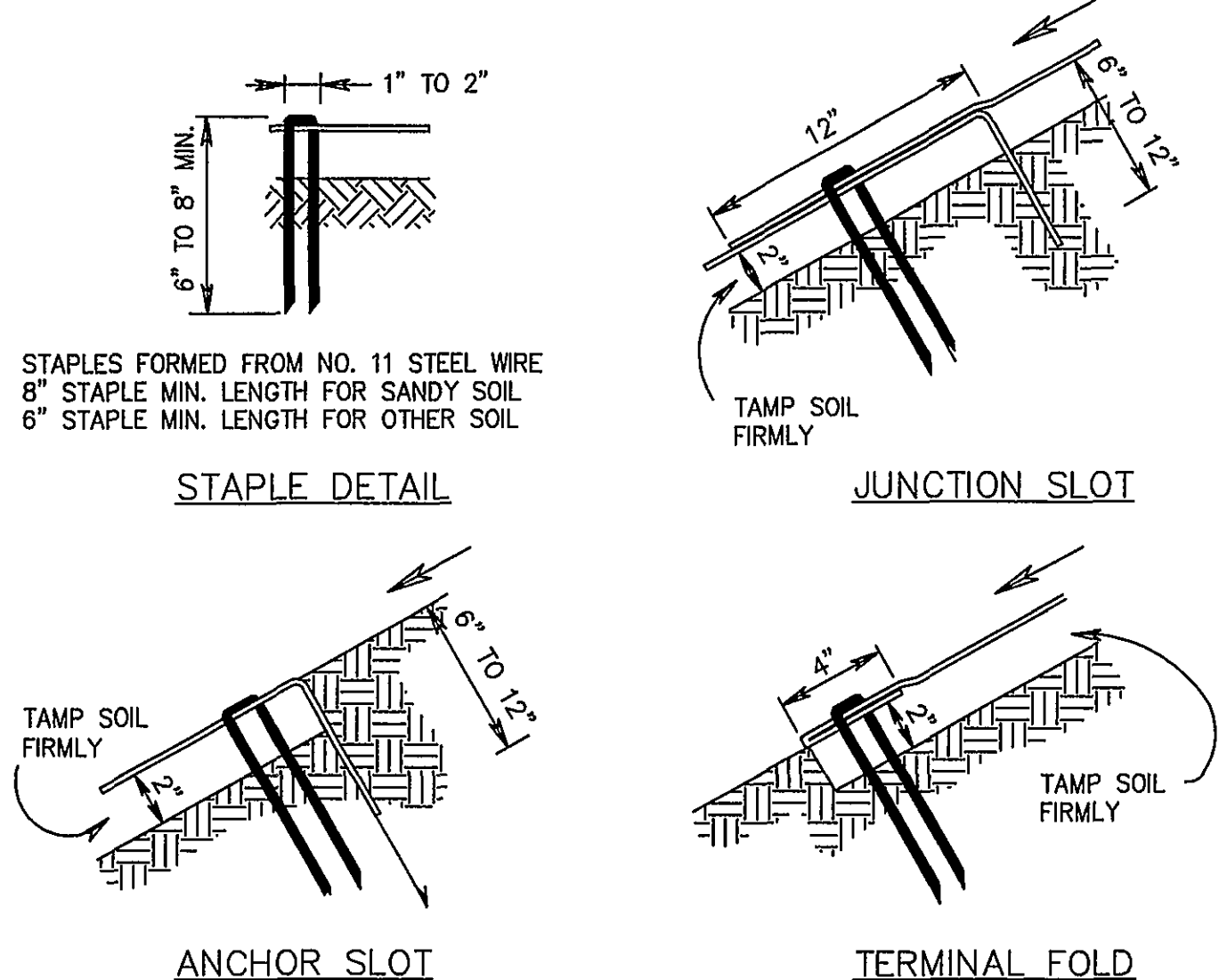
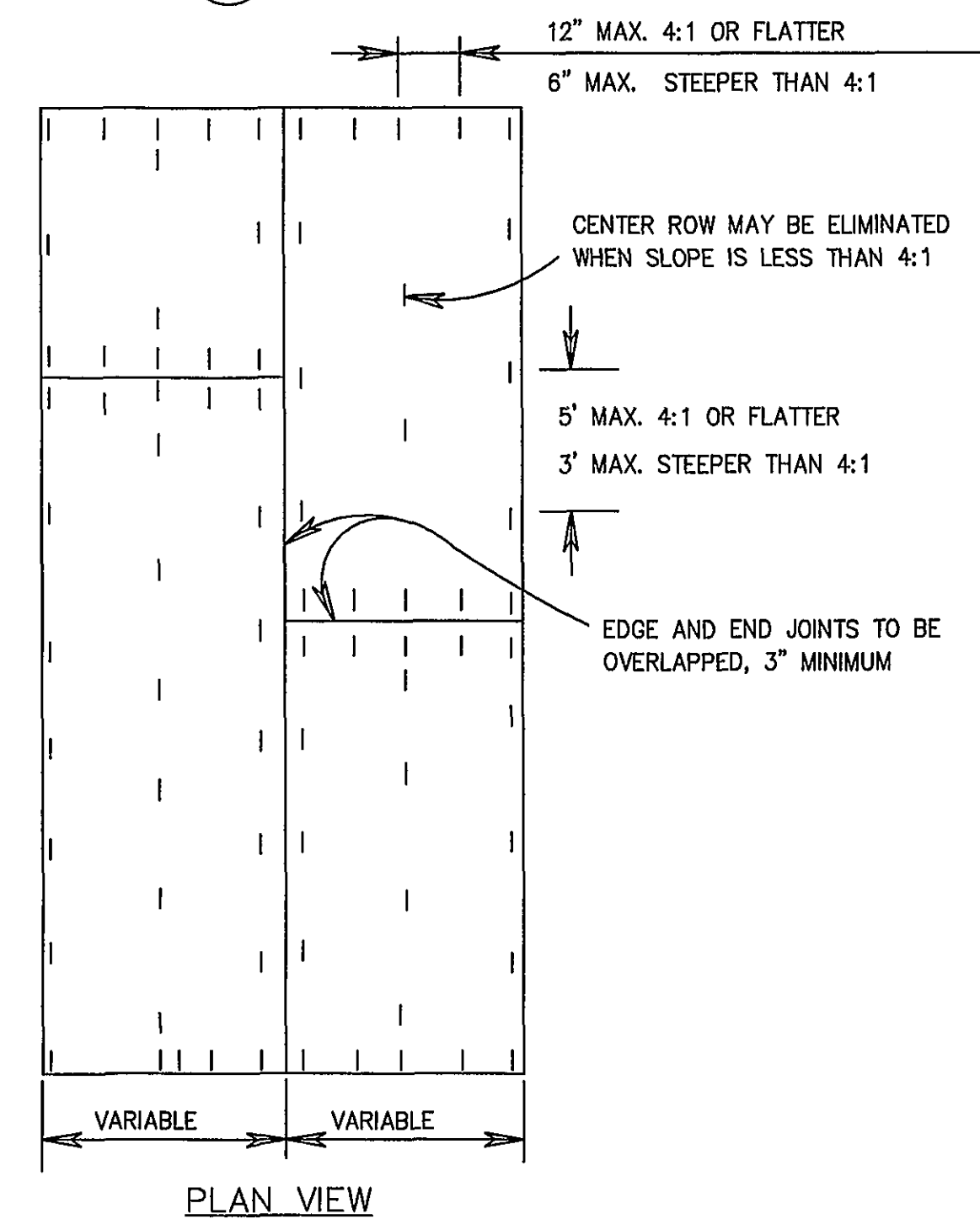
**(MU) MULCHING**

NO APPLICABLE DETAILS APPLY. REFER TO SPECIFICATION 3.35 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION FOR SPECIFIC REQUIREMENTS.

**(DC) DUST CONTROL**

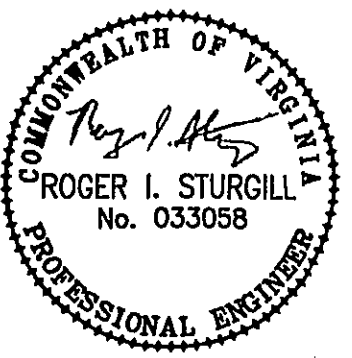
NO APPLICABLE DETAILS APPLY. REFER TO SPECIFICATION 3.39 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION FOR SPECIFIC REQUIREMENTS.

**(B/M) SOIL STABILIZATION BLANKET**



NOTE: BLANKET MATTING (B/M) TO BE USED ON ALL SLOPES 3:1 OR STEEPER.

THE FOLLOWING ARE REPRESENTATIVE DETAILS FOR THE STATE MINIMUM STANDARDS AND SPECIFICATIONS RELATIVE TO THE PROPOSED PROJECT. THE GENERAL CONTRACTOR SHALL RELY ON THE COMPLETE STANDARD AS INDICATED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK FOR PROPER INSTALLATION, CONSTRUCTION AND MAINTENANCE OF THE INDIVIDUAL ITEMS REQUIRED BY THESE PLANS OR AS MAY BE REQUIRED BY THE LOCAL GOVERNING AUTHORITY.



PLANNERS • ARCHITECTS  
ENGINEERS • SURVEYORS

1208 Corporate Circle  
Roanoke, Virginia 24018  
Phone: 540/772-9580  
FAX: 540/772-8050

601 Branchway Road  
Richmond, Virginia 23226  
Phone: 804/784-0071  
FAX: 804/784-3339

880 Technology Park Drive  
Suite 200  
Glen Allen, Virginia 23059  
Phone: 804/663-0132  
FAX: 804/663-0133

448 Peppers Ferry Road, NW  
Christiansburg, Virginia 24073  
Phone: 540/381-4280  
FAX: 540/381-4281

1687 Commerce Road  
Suite 201  
Verona, Virginia 24482  
Phone: 540/248-3220  
FAX: 540/248-3221

MAPLE RIDGE

EROSION & SEDIMENT CONTROL DETAILS  
ROANOKE CITY, VIRGINIA

DRAWN BY: JVV

DESIGNED BY: JVV

CHECKED BY: SMH

DATE: 09/29/2006

REVISIONS:

1st - 02/26/2007  
per City Review

2nd - 04/20/2007  
per City Review

3rd - 05/15/2007  
per City Review

4th - 08/28/2007  
Owner Revisions

5th - 09/20/2007  
per City Review

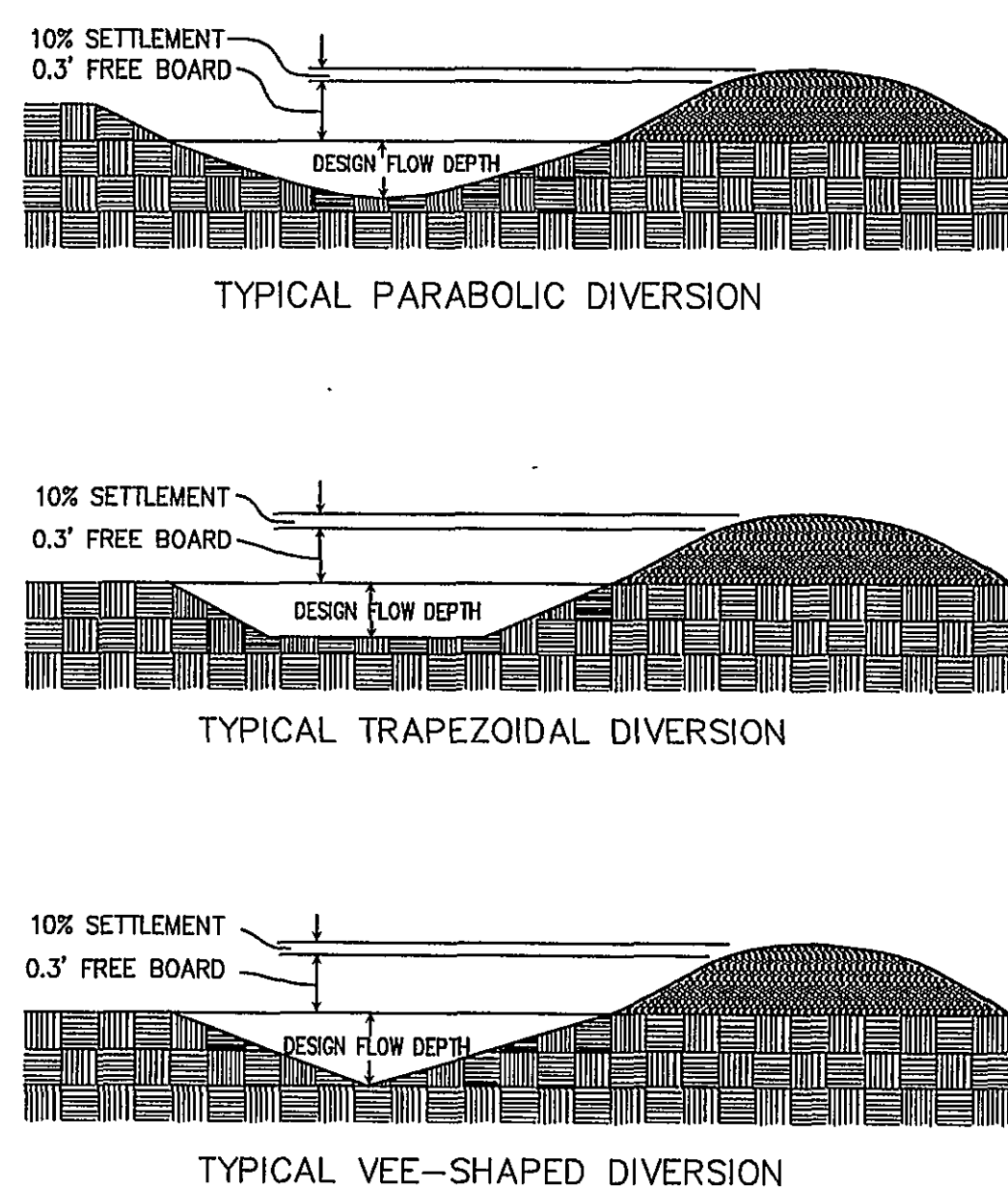
SHEET NO.

C-11

JOB NO.

RO400131.03

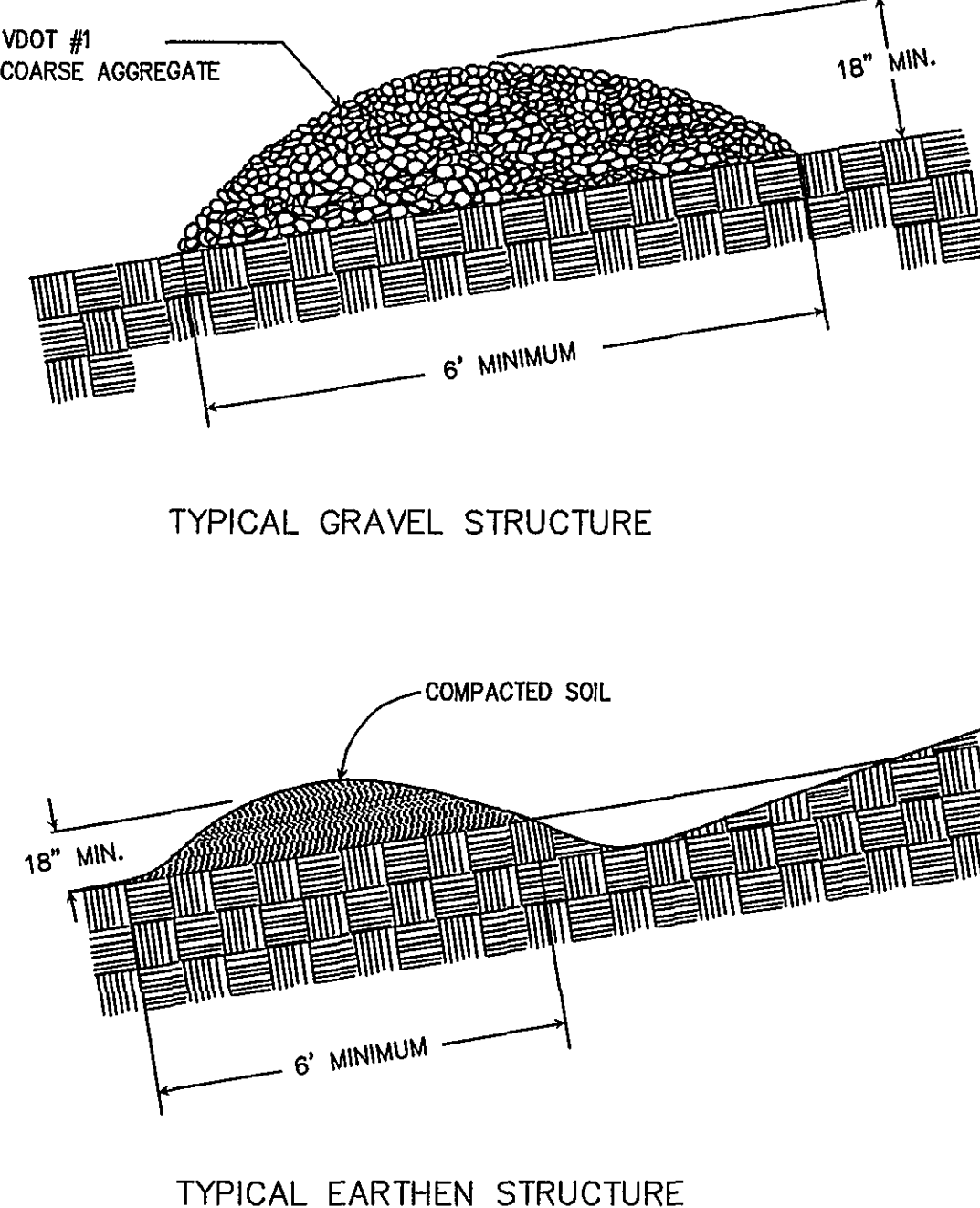
**(DV) DIVERSIONS**



Source: Va. DSWC

Plate 3.12-1

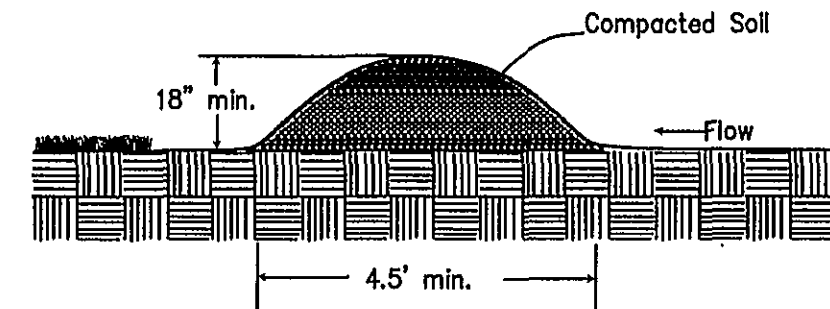
**(RWD) TEMPORARY RIGHT-OF-WAY DIVERSIONS**



Source: Va. SWCC

Plate 3.11-1

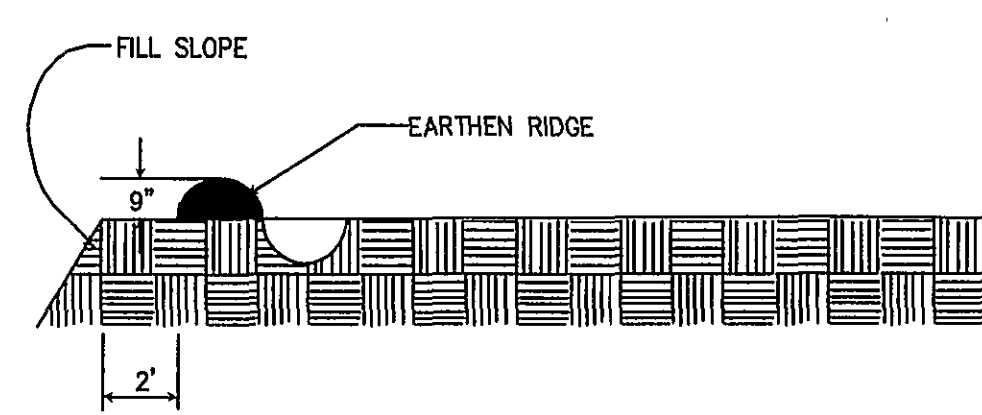
**(DD) TEMPORARY DIVERSION DIKE**



SOURCE: VA. DSWC

PLATE 3.09-1

**(FD) TEMPORARY FILL DIVERSION**



SOURCE: VA. DSWC

PLATE 3.10-1