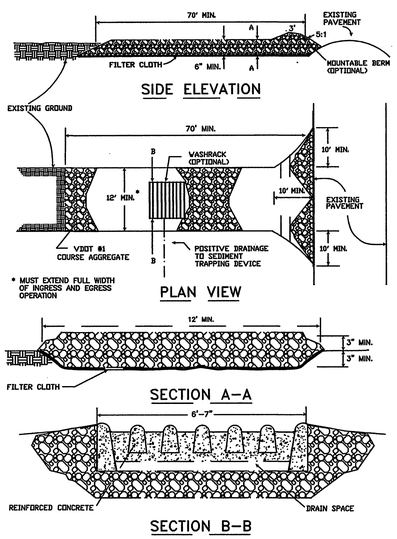
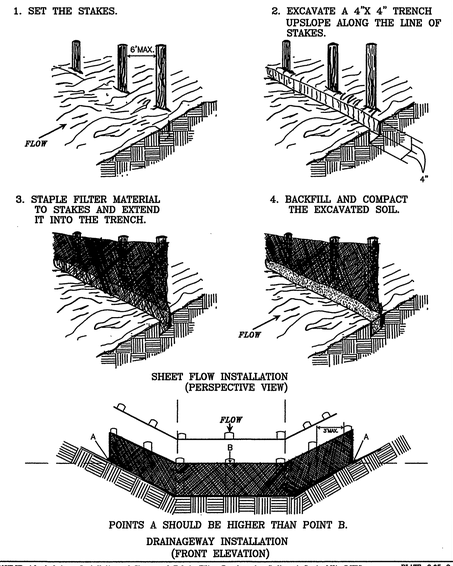
STONE CONSTRUCTION ENTRANCE



SOURCE: ADAPTED from 1983 Maryland Standards for Soil erosion and Sediment Control, and Va. DSWC

Plate 3.02-1

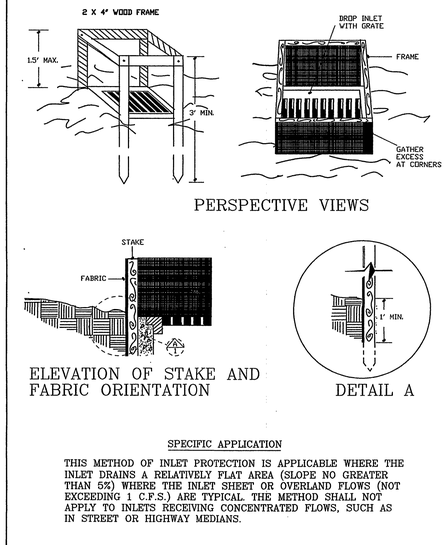
CONSTRUCTION OF A SILT FENCE (WITHOUT WIRE SUPPORT)



SOURCE: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, VA. DSWC Sherwood and Wyant

PLATE. 3.05-2

SILT FENCE DROP INLET PROTECTION



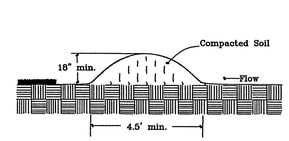
SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

SOURCE: N.C. Erosion and Sediment Control Planning and Design Manual, 1988

PLATE 3.07-1

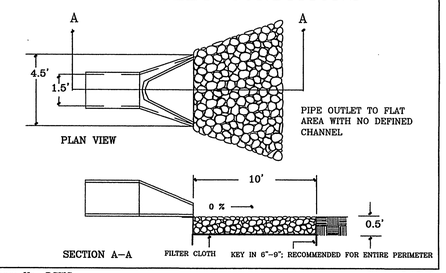
TEMPORARY DIVERSION DIKE



SOURCE: VA. DSWC

PLATE 3.09-1

PIPE OUTLET CONDITIONS



Source: Va. DSWC

Plate 3.18-1

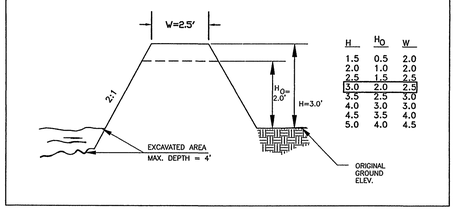
SEDIMENT TRAP DATA

1.45 ACRES
WET STORAGE REQUIRED: 97 C.Y.
DRY STORAGE REQUIRED: 97 C.Y.

WET STORAGE PROVIDED:
V1= 0.85' X 1,600 S.F. X 2
V1= 2,720 cfs OR 100 C.Y.
32'X50'=1,600 S.F.

DRY STORAGE PROVIDED:
V2= 1,600 + 2,320 / 2 X 2
V2=3,920 cfs OR 145 C.Y.
40'X58'=2,320 S.F.

MINIMUM TOP WIDTH (W) REQUIRED FOR SEDIMENT TRAP EMBANKMENTS ACCORDING TO HEIGHT OF EMBANKMENT (FEET)



H	H_O	W
1.5	0.5	2.0
2.0	1.0	2.0
2.5	1.5	2.5
3.0	2.0	2.5
3.5	2.5	3.0
4.0	3.0	3.0
4.5	3.5	4.0
5.0	4.0	4.5

SOURCE: VA. DSWC

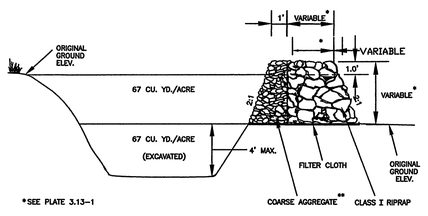
PLATE. 3.13-1

COMMONWEALTH OF VIRGINIA
ROGER I. STURGILL
No. 033058
2/13/02
PROFESSIONAL ENGINEER

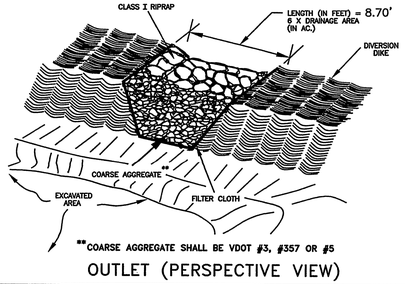
CERTIFIED LAND DISTURBER

ROGER I. STURGILL
1208 CORPORATE CIRCLE
ROANOKE, VA 24018
540-772-9580

TEMPORARY SEDIMENT TRAP



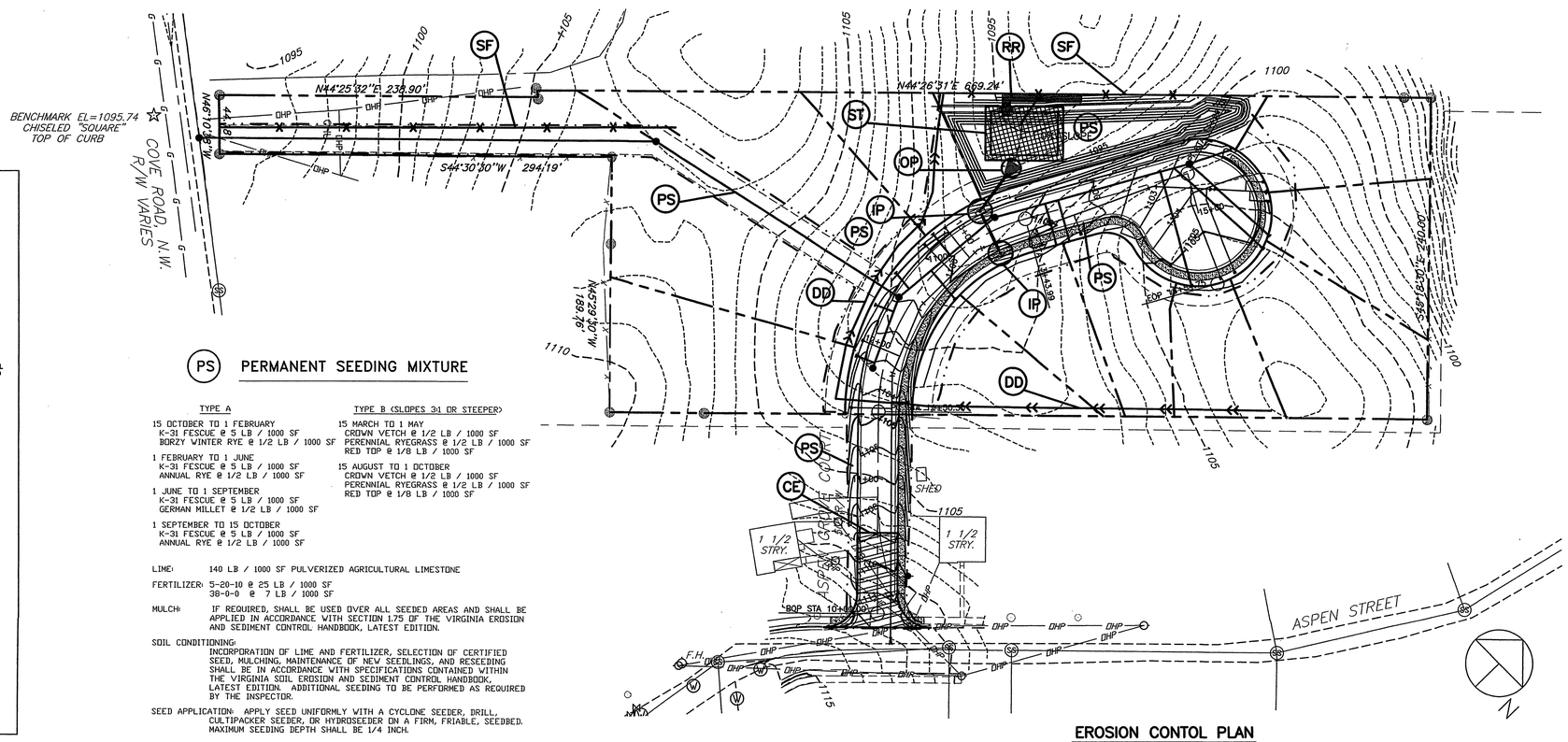
CROSS SECTION OF OUTLET



OUTLET (PERSPECTIVE VIEW)

SOURCE: VA. DSWC

PLATE. 3.13-2



EROSION CONTOL PLAN

SCALE: 1:=50'

(PS) PERMANENT SEEDING MIXTURE

TYPE A

15 OCTOBER TO 1 FEBRUARY
K-31 FESCUE @ 5 LB / 1000 SF
BORZY WINTER RYE @ 1/2 LB / 1000 SF

1 FEBRUARY TO 1 JUNE
K-31 FESCUE @ 5 LB / 1000 SF
ANNUAL RYE @ 1/2 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

TYPE B (SLOPES 3:1 OR STEEPER)

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

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

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 SEEDED 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.

TOTAL DISTURBED AREA = 1.33 AC. = 58,272 SQ. FT.

COMMONWEALTH OF VIRGINIA
ROGER I. STURGILL
No. 033058
2/13/02
PROFESSIONAL ENGINEER

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FAX: 804/553-0133

ASPEN GROVE SUBDIVISION
BLUE RIDGE HOUSING DEV. CORP.

EROSION CONTROL PLAN

CITY OF ROANOKE, VIRGINIA

DRAWN BY: DRB
DESIGNED BY: DRB
CHECKED BY: RIS
DATE: DEC. 14, 2001
REVISIONS:

2-8-02

SCALE: AS SHOWN

SHEET NO.

5 OF 7

JOB NO.
R0000338.01

J:\00\R0000338\Civil\C5_R0000338_EC.dwg Fri Feb 08 16:29:37 2002 drb