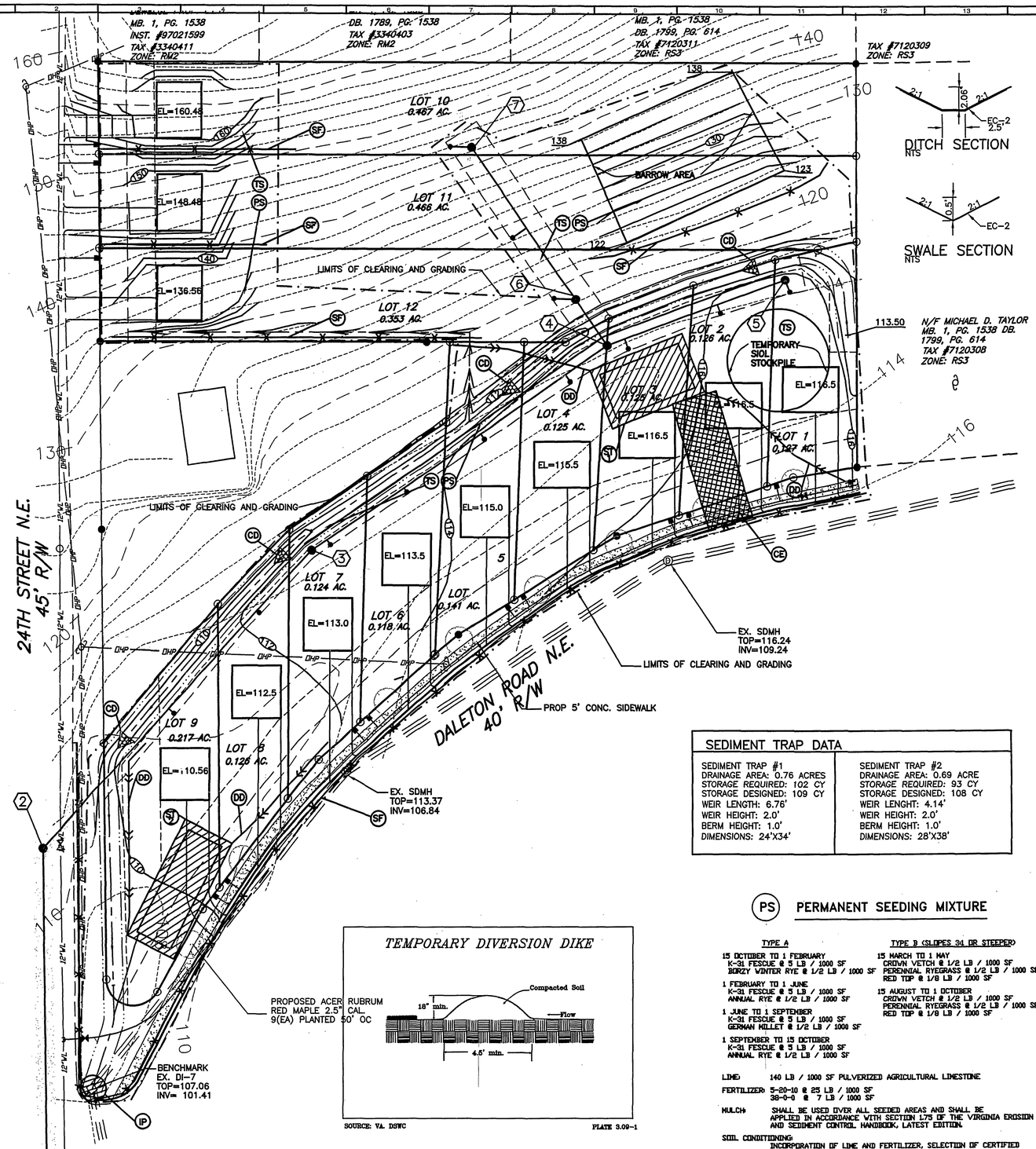


EROSION CONTROL PLAN
SCALE: 1"=30'

DITCH SECTION
NTS

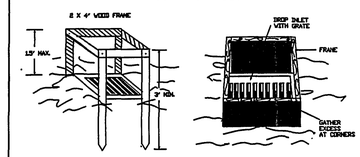
SWALE SECTION
NTS

COMMONWEALTH OF VIRGINIA
ROGER I. STURGILL
No. 033058
PROFESSIONAL ENGINEER

CERTIFIED LAND DISTURBER

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

SILT FENCE DROP INLET PROTECTION



PERSPECTIVE VIEWS

ELEVATION OF STAKE AND FABRIC ORIENTATION

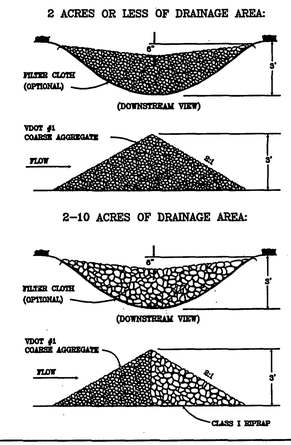
DETAIL A

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: H.C. Erosion and Sediment Control Planning and Design Manual, 1988 PLATE 3.07-1

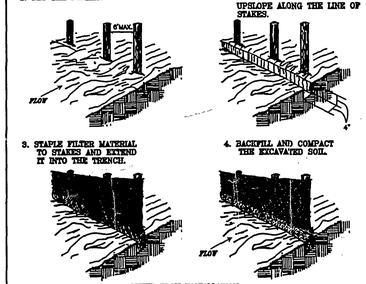
ROCK CHECK DAM



SOURCE: VA. DSWC PLATE. 3.20-1

CONSTRUCTION OF A SILT FENCE (WITHOUT WIRE SUPPORT)

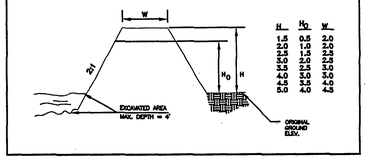
1. SET THE STAKES.
2. EXCAVATE A 4"X 4" TRENCH UPSLOPE ALONG THE LINE OF STAKES.



3. STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH.
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.

SOURCE: Adapted from Installation of Hay and Fabric Filter Barriers for Sediment Control, VA. DSWC Sherwood and Wyatt PLATE 3.05-2

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



H	H_D	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

SEDIMENT TRAP DATA

SEDIMENT TRAP #1	SEDIMENT TRAP #2
DRAINAGE AREA: 0.76 ACRES	DRAINAGE AREA: 0.69 ACRE
STORAGE REQUIRED: 102 CY	STORAGE REQUIRED: 93 CY
STORAGE DESIGNED: 109 CY	STORAGE DESIGNED: 108 CY
WEIR LENGTH: 6.76'	WEIR LENGHT: 4.14'
WEIR HEIGHT: 2.0'	WEIR HEIGHT: 2.0'
BERM HEIGHT: 1.0'	BERM HEIGHT: 1.0'
DIMENSIONS: 24'X34'	DIMENSIONS: 28'X38'

TEMPORARY DIVERSION DIKE

SOURCE: VA. DSWC PLATE 3.09-1

(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

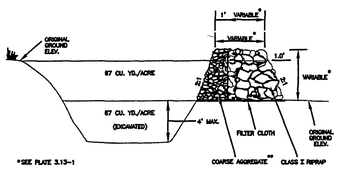
MULCH: SHALL BE USED OVER ALL SEEDED AREAS AND SHALL BE APPLIED IN ACCORDANCE WITH SECTION 173 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.

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.

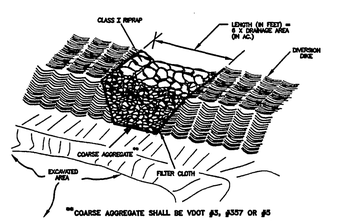
SEED APPLICATION: APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER ON A FIRM, FRIABLE, SEEDBED. MAXIMUM SEEDING DEPTH SHALL BE 1/4 INCH.

TOTAL DISTURBED AREA = 2.3 AC. = 100,188 SQ. FT.

TEMPORARY SEDIMENT TRAP



CROSS SECTION OF OUTLET

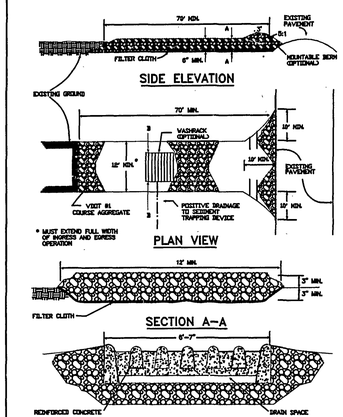


**COARSE AGGREGATE SHALL BE VDOT #3, #357 OR #5

OUTLET (PERSPECTIVE VIEW)

SOURCE: VA. DSWC PLATE. 3.13-2

STONE CONSTRUCTION ENTRANCE



SOURCE: ADAPTED from 1983 Maryland Standards for Soil erosion and Sediment Control, and Va. DSWC Plate 3.02-1

COMMONWEALTH OF VIRGINIA
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No. 033058
PROFESSIONAL ENGINEER

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DALETON RD. SUBDIVISION
SOUTHWOOD MANAGEMENT, INC.

EROSION CONTROL PLAN

CITY OF ROANOKE, VIRGINIA

DRAWN BY: DRB
DESIGNED BY: DRB
CHECKED BY: RIS
DATE: JULY 26, 2002
REVISIONS:
9-19-02

WVWA ID# 6QSKXY

SCALE: 30'

SHEET NO.
3 OF 6

JOB NO.
R0200106