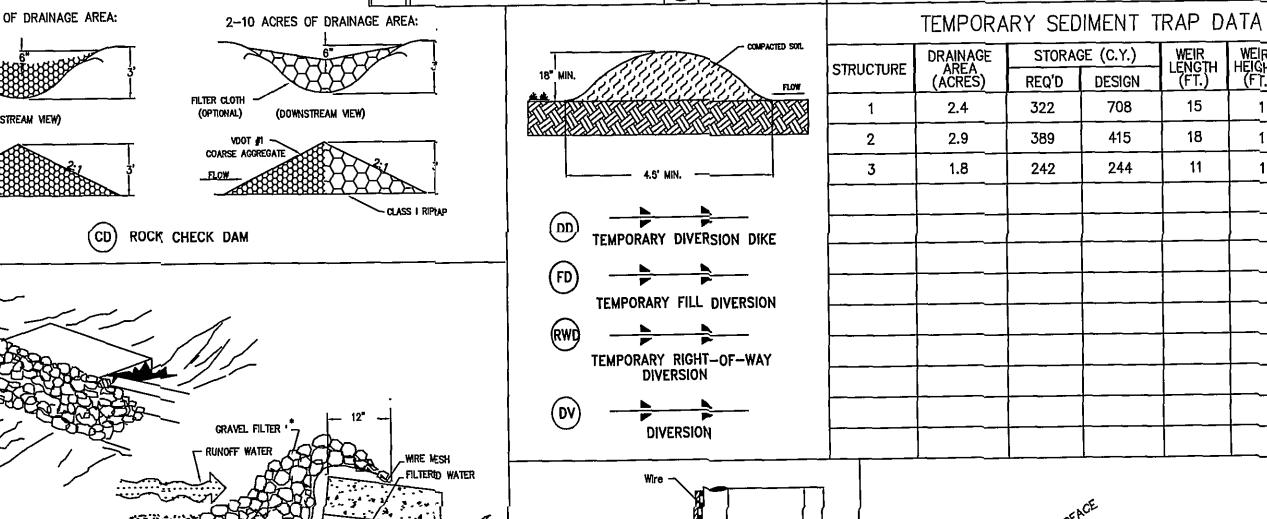


CONCRETE GUTTE

_		8 9	1	0	11		12	13	14	_
	NO.	TITLE	KEY	SYMBOL	NO.		TITLE	KEY	SYMBOL	
	3.01	SAFETY FENCE	SAF	₩ ₩	3.20	ROCK	CHECK DAMS	(0)	-)-)-	
	3.02	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE	Œ		3.21	l	SPREADER	LS		
	3.03	CONSTRUCTION ROAD STABILIZATION	CRS	8	3.22	STRUCTURAL STREAMBANK STABILIZATION TEMPORARY VEHICULAR STREAM CROSSING		vss		
	3.04	STRAW BALE BARRIER	STB		3.23			SSS	(S)	
	3.05	SILT FENCE	(SF)	-x- x-x-x -	3.24			(vsc)		
	3.06	BRUSH BARRIER	BB	(2000)	3.25			Usc		
	3.07	STORM DRAIN INLET PROTECTION	P	 	3.26	DEWATERING STRUCTURE		(DS)		
	3.08	CULVERT INLET PROTECTION	CIP		3.27	TURBIDITY CURTAIN				
	3.09	TEMPORARY DIVERSION DIKE	(B)	<u> </u>	3.28	SUBSURFACE DRAIN		SD		
	3.10	TEMPORARY FILL DIVERSION	FD	<u> </u>	3.29	SURFACE	ROUGHENING	SR	(SR)	
	3.11	TEMPORARY RIGHT-OF-WAY DIVERSION	RWD		3.30	TOF	PSOILING	(70)		
ĺ	3.12	DIVERSION	(DV)	<u>₩</u>	3.31	PERMANENT SEEDING SODDING BERMUDA GRASS AND ZOYSIAURASS ESTABLISHMENT MULCHING		TS	(3)	$\left. \right $
	3.13	TEMPORARY SEDIMENT TRAP	ST		3.32			PS	 ®	
	3.14	TEMPORARY SEDIMENT BASIN	(SB)		3.33			(50)		
	3.15	TEMPORARY SLOPE DRAIN	TSD	(B)	3.34			B	B) OR	
	3.16	PAVED FLUME	PF	(F)	3.35			MU		
	3.17	STORMWATER CONVEYANCE CHANNEL	SCC		3.36	BLANKETS AND MATTING			TREAT, 1 TREAT, 2	
	3.18	OUTLET PROTECTION	(P)		3.37	AND GROUND COVERS		(ÆG)		
.	3.19	RIPRAP	RR		3.38	13	RESERVATION PROTECTION	TP)		
					3.39	DUS	T CONTROL	DC		
2	ACRES	OR LESS OF DRAINAGE AREA:	2-	-10 ACRES OF DRAINA	GE ARE	:A:				
6" COMPACTED SOIL										
FILTER CLOTH (OPTIONAL) (DOWNSTREAM VIEW) FILTER CLOTH (OPTIONAL) (DOWNSTREAM VIEW)										
VDOT #1 COARSE AGGREGATE FLOW 4.5' MIN. —										
•	A		<u> </u>	-						
		CD ROCK CHEC	TEMPORARY DIVERSION DIKE							
			TEMPORARY FILL DIVERSION							
			(RWD)							
		- CA D	i ()	<i>y</i>						



xtend Flabric and

CROSS-SECTION

(SF) CONSTRUCTION OF A SILT FENCE

Section A-A

(OP) OUTLET PROTECTION

10' IF WIRE IS

USED.

6' IF WIRE IS

Section A-A

<u>Pipe Outlet To</u> <u>Well—Defined Channel</u>

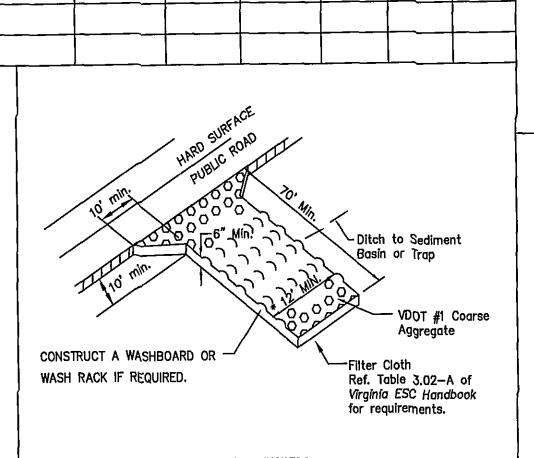
Apron lining may be rip—rap, grouted rip—rap, or concrete.
 La is the length of the rip—

plates 1.36d and 1.36e.

3. d = 1.5 times the moximum stone diameter, but not less

rap apron as calculated using

NOT USED.



67 CU. YD./ACRE (EXCAVATED)

* SEE PLATE 3.13~1

CLASS I RIP-RAP -

FILTER CLOTH -

For areas less than 3.0 acres. For areas larger than 3.0 acres, A SEDIMENT TRAP, is required Please see Va' ESC manual for design.

-EXCAVATED AREA -

COARSE AGGREGATE **

CROSS-SECTION

(ST) SEDIMENT TRAP

-FILTER CLOTH - COARSE AGGREGATE **

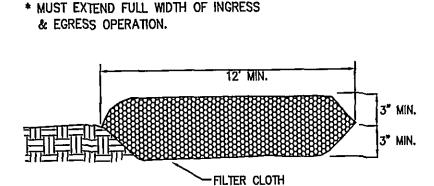
-Length(ft) = 6 x Drainage Area (ac.)

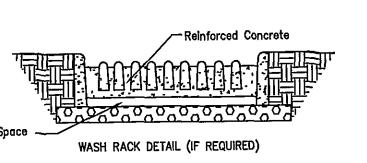
** COARSE AGGREGATE SHALL BE VDOT #3,#357 OF#5

WEIR HEIGHT (FT.)

15

18





TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

EROSION-SILTATION CONTROL COST ESTIMATE

	ALL COSTS GIVEN ARE COMPLETE IN PLACE									
	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST					
	CONSTRUCTION ENTRANCE	EA	1	\$ 2000	\$	2000				
DUND	SILT FENCE	LF	3220	3.00		9660				
, O, ND	INLET PROTECTION	EA	16	500		8000				
	TEMPORARY DIVERSION DIKE	LF	3140	2.50		7850				
	TEMPORARY FILL DIVERSION	LF	1720	2.50		4300				
	SEDIMENT TRAP	EA	3	1500	 	4500				
	CHECK DAM	EA	8	200		1600				
	PERMANENT SEEDING	AC	20.1	1000		20100				
	TEMPORARY SEEDING	AC	20.1	500		10050				
	BLANKET MATTING	SY	9000	1.50		13500				
l.	CONSTRUCTION ROAD STABILIZATION	LF	3400	4.00		13600				
	OUTLET PROTECTION	EA	3	500		1500				
	SEDIMENT BASIN	EA	1	2500		2500				
	CULVERT INLET PROTECTION	EA	4	500		2000				
	RIGHT OF WAY DIVERSION	LF	170	2.50		425				
	SUB-TOTAL				\$	101585				
	10% CONTINGENCY	\$	10165							
	TOTAL PROJECT COST				\$	111750				

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, THE APPROVING AUTHORITY MAY ADD TO, DELETE, RELOCATE, CHANGE, OR OTHERWISE MODIFY CERTAIN EROSION AND SEDIMENT CONTROL MEASURES WHERE
- FIELD CONDITIONS ARE ENCOUNTERED THAT WARRANT SUCH MODIFICATIONS. . 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
- 4. IN NO CASE DURING CONSTRUCTION SHALL WATER RUNOFF BE DIVERTED OR ALLOWED TO FLOW TO LOCATIONS WHERE ADEQUATE PROTECTION HAS NOT BEEN
- 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 ROANOKE COUNTY.

PERMANENT SEEDING MIXTURE

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

CROWN VETCH @ 1/2 LB / 1000 SF BORZY WINTER RYE @ 1/2 LB / 1000 SF PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF RED TOP 9 1/8 LB / 1000 SF CROWN VETCH & 1/2 LB / 1000 SF
PERENNIAL RYEGRASS & 1/2 LB / 1000 SF
RED TOP @ 1/8 LB / 1000 SF

TYPE B (SLOPES 3:1 OR STEEPER)

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

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

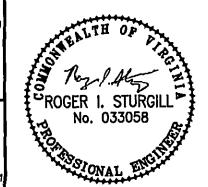
38-0-0 0 7 LB / 1000 SF IF REQUIRED, SHALL BE USED OVER ALL SEEDED AREAS AND SHALL BE APPLIED IN ACCORDANCE WITH SECTION 1.75 OF THE VIRGINIA EROSION

AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. 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 = 20.1 AC. = 875,000 SQ. FT.



REFLECTING TOMORROV www.balzer.cc PLANNERS • ARCHITECTS ENGINEERS • SURVEYORS

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1557 Commerce Road Verona, Virginia 24482

Phone, 540/248-3220 FAX: 540/248-3221

FAIR

02/18/08 04/18/08 04/29/08 07/07/08

SCALE: AS SHOWN

DRAWN BY: DESIGNED BY: CPB CHECKED BY: JVJ 10/31/06

REVISIONS:

12/07/06 12/12/06

SHEET NO.

R0400130.01