

SPECIFIC APPLICATION

to adjacent structures and unprotected areas.

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

FILTERED

This method of inlet protection is applicable where heavy concentrated flows are expected, but not where ponding around the structure might cause excessive inconvenience or damage

(IP) GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER

TEMPORARY SEDIMENT TRAP DATA							NO.	TITLE	KEY	SYMBOL	NO.	TITLE	KEY	SYMBOL
STRUCTURE DRAIN ARE (ACR	Α -	STORA REQ'D	GE (C.Y.) DESIGN	WEIR LENGTH (FT.)	WEIR HEIGH (FT.)	BERM HT HEIGHT (FT.)	3.01	SAFETY FENCE	SAF	(A)	3.20	ROCK CHECK DAMS	(CD)	
ST 1 1.9		DRY 133 CY	DRY 56'X33'X2'	12′	2′		3.02	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE	(EE)		3,21	LEVEL SPREADER	(LS)	
		WET 133 CY DRY	WET 48'X25'X3' DRY				3.03	CONSTRUCTION ROAD STABILIZATION	(CRS)	(RS)	3.22	VEGETATIVE STREAMBANK STABILIZATION	(52)	(G)
ST 2 1.2	9	87 CY WET	54'X26'X1.8' WET		1.8	3′ 2.8′	3.04	STRAW BALE BARRIER	(STB)		3,23	STRUCTURAL STREAMBANK STABILIZATION	(222)	<u> </u>
	-	87 CY	48'X20'X2.5'				3.05	SILT FENCE	(SF)	-x x x -x -	3.24	TEMPORARY VEHICULAR STREAM CROSSING	(VS)	主体
EROSION-SILTATION CONTROL COST ESTIMATE						3.06	BRUSH BARRIER	BB	63333330	3.25	UTILITY STREAM CROSSING	USC		
ALL COSTS GIVEN				1			3.07	STORM DRAIN INLET PROTECTION	IP		3.26	DEWATERING STRUCTURE	DS	-
DESCRIPTION		UNIT	QUANTITY	UNIT C	TZ	DTAL COST	3.08	CULVERT INLET PROTECTION	CIP		3.27	TURBIDITY CURTAIN	TC	DY
CONSTRUCTION ENTRANCE		EA	1	\$ 400.	.00 \$	400.00	3,09	TEMPORARY DIVERSION DIKE	DD	<u> </u>	3,28	SUBSURFACE DRAIN	SD	
SILT FENCE		LF	1,990	\$ 2.	50 \$	4,975.00	3.10	TEMPORARY FILL DIVERSION	FÐ	(F)	3,29	SURFACE ROUGHENING	SR	SR)
INLET PROTECTION		EA					3.11	TEMPORARY RIGHT-OF-WAY DIVERSION	RWI	€	3,30	TOPSOILING	TD	- 10
TEMPORARY DIVERSION DIKE		LF	1,070	\$ 1.	50 \$	1,605.00	3.12	DIVERSION	DV)	(E)	3,31	TEMPORARY SEEDING	TS	- (13)
TEMPORARY FILL DIVERSION		LF					3.13	TEMPORARY SEDIMENT TRAP	(TZ)		3.32	PERMANENT SEEDING	PS	PS
SEDIMENT TRAP		EA	2	\$ 500.	.00 \$	1000.00	3.14	TEMPORARY SEDIMENT BASIN	(ZB)		3.33	SODDING	(31)	- SD
PERMANENT SEEDIN	G 10	000 SF	30	\$ 16	.00 \$	480.00	3,15	TEMPORARY SLOPE DRAIN	(IZT)	[S]	3.34	BERMUDA GRASS AND ZDYSIAURASS ESTABLISHMENT	B _M	3 DR
OUTLET PROTECTIO	N	EA	2	\$ 50	.00 \$	100.00	3,16	PAVED FLUME	PF	(PF)	3.35	MULCHING	MU	(N)
							3.17	STORMWATER CONVEYANCE CHANNEL	(SCC)		3.36	SOIL STABILIZATION BLANKETS AND MATTING		JEH HEIDE GREAT. I TREAT. I
SUB-TOTAL					\$	8,560.00	3.18	OUTLET PROTECTION	₽		3.37	TREES, SHRUBS, VINES AND GROUND COVERS	(VEG	- VE) -
10% CONTINGENCY					\$	856.00	3.19	RIPRAP	RR		3,38	TREE PRESERVATION AND PROTECTION	TP	TP
TOTAL PROJECT CO	TZI		·		\$	9,416.00					3.39	DUST CONTROL	(DC)	

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 CERTAIN EROSION AND SEDIMENT CONTROL MEASURES WHERE FIELD 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
- 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 ERUSION 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.

CONSTRUCTION SHOULD BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.

SEDIMENT TRAPPING MEASURES SHALL BE INSTALLED AS A FIRST STEP IN GRADING AND SHALL BE SEEDED AND MULCHED IMMEDIATELY FOLLOWING INSTALLATION.

TEMPORARY SEEDING OR OTHER STABILIZATION SHALL FOLLOW IMMEDIATELY AFTER GRADING.

AREAS WHICH ARE NOT TO BE DISTURBED SHALL BE CLEARLY MARKED. FIELD INSPECTIONS DURING CONSTRUCTION MAY REQUIRE ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES.

THE DEVELOPER SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES.

OWNER/DEVELOPER GRANTS RIGHT OF ENTRY TO COUNTY PERSONNEL FOR THE PURPOSE OF MONITORING COMPLIANCE WITH THE CODE OF VIRGINIA, EROSION & SEDIMENT CONTROL LAW (JITLE 21, CHAPTER 1,

BUILDING PERMITS WILL NOT BE ISSUED UNTIL THE INITIAL EROSION & SEDIMENT CONTROL MEASURES REFLECTED IN THE APPROVED PLANS HAVE BEEN PROPERLY INSTALLED.

ALL SILTATION CONTROLS SHALL BE IN PLACE PRIOR TO CLEARING, STRIPPING OF TOPSOIL, OR GRADING. ALL DETAILS ARE FROM THE VIRGINIA EROSION & SEDIMENT CONTROL , HANDBOOK, THE HANDBOOK, SHALL SUPPLANT THIS SHEET SHOULD .A DISCREPANCY EXIST.

ALL CUT AND FILL SLOPES TO BE SEEDED AND MULCHED AS SOON AS POSSIBLE AFTER GRADING OF LOTS. EROSION CONTROL DEVICES TO REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE ADEQUATE GROUND COVER. THIS PLAN TO BE APPROVED AND LAND DISTURBANCE PERMIT TO BE

OBTAINED PRIOR TO GRADING.

MAINTENANCE

IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR

1. ALL SEDIMENT TRAPPINGS WILL BE CHECKED REGULARLY FOR NECESSRY SEDIMENT

- 2. ALL STORM DRAIN INLETS AND DUTLETS WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP.
- 3. ALL SILT BARRIERS WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION,
- 4. ALL SEEDED AREAS WILL BE CHECKED REGULARLY TO SEE THAT GOOD STABILIZATION IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RESEEDED AS NEEDED.

PERMANENT STABILIZATION

ALL AREAS DISTURBED BY CONSTRUCTION WILL BE STABILIZED WITH PERMANENT SEEDING WITHIN 7 DAYS OR IMMEDIATELY FOLLOWING FINISH GRADING. SEEDING WILL BE DONE ACCORDING TO STANDARD AND SPECIFICATION 3.32 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. PERMANENTLY SEEDED AREAS SHALL BE PROTECTED DURING ESTABLISHMENT WITH STRAW MULCH.



PERMANENT SEEDING MIXTURE

TYPE A

TYPE B (SLOPES 34 OR STEEPER) 15 MARCH TO 1 MAY CROWN VETCH @ 1/2 LB / 1000 SF

K-31 FESCUE @ 5 LB / 1000 SF BORZY WINTER RYE @ 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 15 AUGUST TO 1 DCTOBER

ANNUAL RYE @ 1/2 LB / 1000 SF

CROWN VETCH @ 1/2 LB / 1000 SF PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF RED TOP @ 1/8 LB / 1000 SF K-31 FESCUE @ 5 LB / 1000 SF

GERMAN MILLET @ 1/2 LB / 1000 SF

15 OCTOBER TO 1 FEBRUARY

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

BY THE INSPECTOR.

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

38-0-0 € 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.

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

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.

REVISION	DATE	DESCRIPTION
DESIGNED		EROSION CONTROL DETAIL SHEET
DRAWN		VILLAGE GREEN PREPARED FOR
CHECKED		WILLARD CONSTRUCTION OF SMITH MOUNTAIN LAKE, L.L.C.
		UNION HALL MAGISTERIAL DISTRICT FRANKLIN COUNTY, VIRGINIA

ENGINEERS-SURVEYORS-PLANNERS ROANOKE, VIRGINIA

SCALE: NONE COMM: 98423 DATE: 9-21-99 SHEET 8 of 9

SPECIFIC APPLICATION

This method of inlet protection is applicable

where heavy flows are expected and where an overflow capability and ease of maintenance

are desirable.