GENERAL NOTES

- ES-1 UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00
- ES-2 THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRECONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- ES-3 ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS
- ES-4 A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE

EROSION AND SEDIMENT CONTROL REGULATIONS.

MAINTAINED ON THE SITE AT ALL TIMES.

- ES-5 PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
- ES-6 THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
- ES-7 ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- ES-8 DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE

TYPE B (SLOPES 3:1 OR STEEPER) 15 OCTOBER TO 1 FEBRUARY K-31 FESCUE • 5 LB / 1000 SF 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

RED TOP @ 1/8 LB / 1000 SF

PERENNIAL RYEGRASS @ 1/2 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 0 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 140 LB / 1000 SF PULVERIZED AGRICULTURAL LIMESTONE

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 = APPROXIMATELY 6 AC.

2 ACRES OR LESS OF DRAINAGE AREA:

2-10 ACRES OF DRAINAGE AREA:

(DOWNSTREAM VIEW)

(CD) ROCK CHECK DAM

FILTER CLOTH

(PS) PERMANENT SEEDING MIXTURE

TEMPORARY FILL DIVERSION

TEMPORARY RIGHT-OF-WAY DIVERSION

Section A-A

Pipe Outlet To

1. Apron lining may be rip-rap, grouted rip-rap, or concrete.

2. La is the length of the rip-

plates 1.36d and 1.36e.

3. d = 1.5 times the maximum

CROSS-SECTION

(SF) CONSTRUCTION OF A SILT FENCE

6' IF WIRE IS

than 6".

OP OUTLET PROTECTION

stone diameter, but not less

rap apron as calculated using

Well-Defined Channel

TEMPORARY OR PERMANENT SEEDING AND MULCH SHALL BE APPLIED TO DISTURBED AREAS IMMEDIATELY FOLLOWING CONSTRUCTION OF DIVERSIONS.

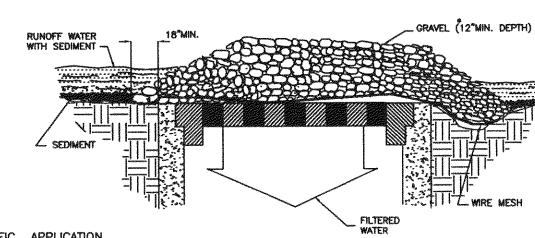
Section A-A

Pipe Outlet To Flat Area

With No Defined Channel

SEE EROSION AND SEDIMENT CONTROL PLAN FOR SPECIFIC

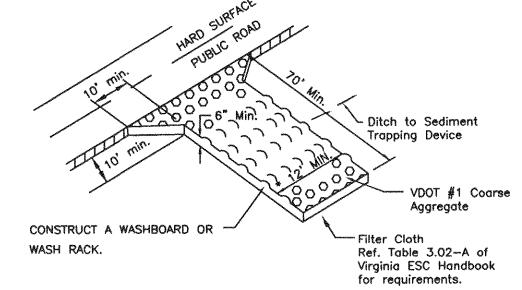
DIMENSIONS AND STONE SIZE OF OUTLET PROTECTIONS.



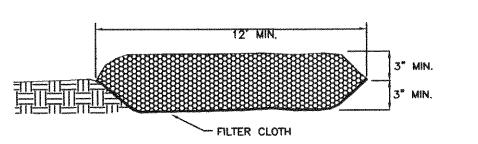
This method of inlet protection is applicable where heavy concentrated flows are expected, but not where ponding around the structure might cause excessive inconvenience or damage to adjacent structures and unprotected areas.

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

(IP) GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER

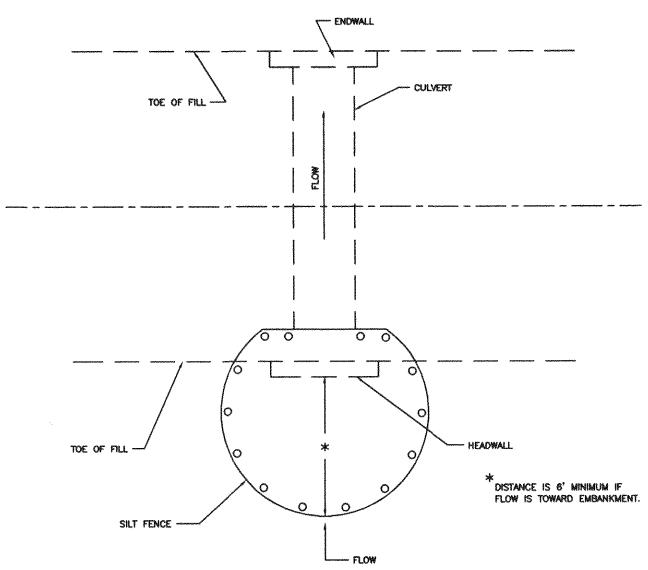


* MUST EXTEND FULL WIDTH OF INGRESS & EGRESS OPERATION.



0,000,000,000 WASH RACK DETAIL (REQUIRED)

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



If silt fence culvert inlet protection is not sufficient due to expected high velocity of flow, contractor shall install optional stone and inlet sediment trap protection per STD. & SPEC. 3.08.

CIP SILT FENCE CULVERT INLET PROTECTION SOURCE: 1992 VA. EROSION AND SEDIMENT CONTROL HANDBOOK, STD. & SPEC. 3.08

AGGREGATE TO MATCH -FINAL PAVEMENT SECTION (21B) COMPACTED.

PROJECT: 00144

C4 of C10

1. TEMPORARY ROADS SHALL FOLLOW THE CONTOUR OF THE NATURAL TERRAIN TO THE EXTENT POSSIBLE. SLOPES SHOULD NOT EXCEED 10 PERCENT. ROADBEDS SHALL BE AT LEAST 14 FEET WIDE FOR ONE-WAY TRAFFIC AND 20 FEET WIDE FOR TWO-WAY TRAFFIC. 3. ALL CUTS AND FILLS SHALL BE 2:1 OR FLATTER TO THE EXTENT POSSIBLE.
4. DRAINAGE DITCHES SHALL BE PROVIDED AS NEEDED AND SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH STORMWATER CONVEYANCE CHANNEL, STD. & SPEC. 3.17. THE ROADBED OR PARKING SURFACE SHALL BE CLEARED OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL. 6. AGGREGATE SHALL BE APPLIED IMMEDIATELY AFTER GRADING OR THE COMPLETION OF UTILITY INSTALLATION WITH THE TRAVEL WAY.

CONSTRUCTION ROAD STABILIZATION

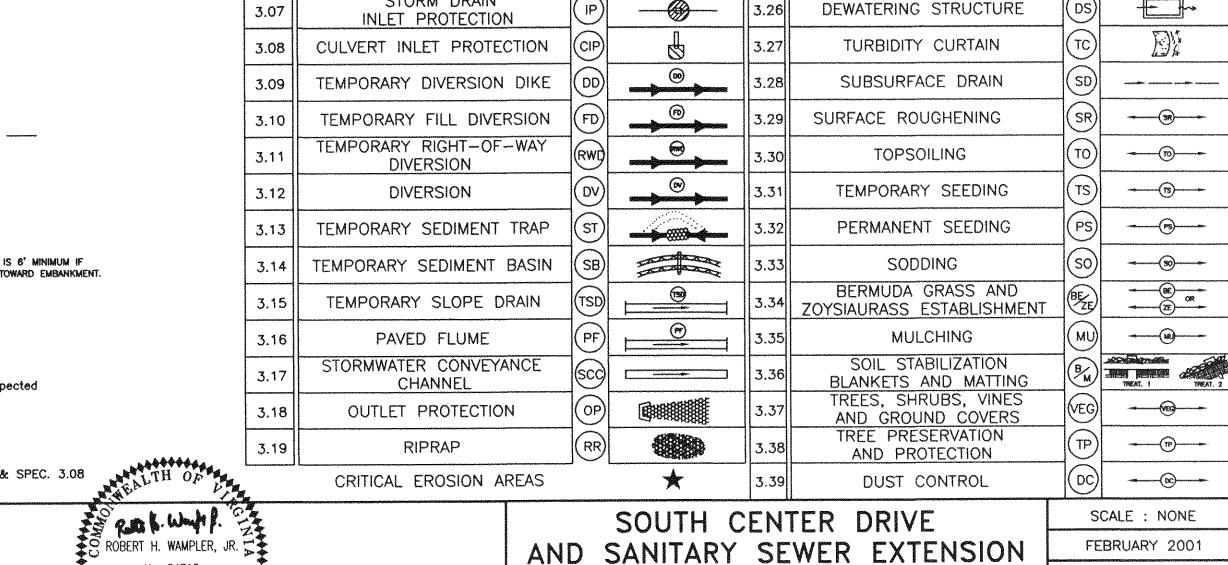
BLANKET MATTING SHALL BE VDOT EC-2 OR APPROVED EQUAL.

EROSION—SEDIMENTATION CONTROL COST ESTIMATE											
ALL COSTS GIVEN ARE COMPLETE IN PLACE											
DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST							
CONSTRUCTION ENTRANCE	EA	1	\$ 1,000	\$	1,000						
SILT FENCE	LF	1,200	3		3,600						
INLET PROTECTION	EA	2	100		200						
STORMWATER CONVEYANCE CHANNEL	LF	2,750	2		5,500						
CHECK DAM	EA	29	100		2,900						
PERMANENT SEEDING	1000 SF	253	35		8,855						
OUTLET PROTECTION	EA	4	250		1,000						
LINING UNDER RR	S.Y.	160	0.75		120						
RIP RAP	TON	200	45		9,000						
SUB-TOTAL		aff Angerusseurummater kystembold érültstöhnöt den enderfalssisse film köldereitet str	Annual management processes to the control of the c	\$	32,175						
20% CONTINGENCY		AND THE PROPERTY OF THE PROPER	nomentalisisement för et kinds ett en at protokon-tank-protokonistischen August protokonistischen August protokonistische	\$	6,435						
TOTAL PROJECT COST	\$	38,610									

NO.	TITLE	KEY	SYMBOL	NO	TITLE	KEY	SYMBOL
3.01	SAFETY FENCE	(SAF)	2000	3.20	ROCK CHECK DAMS		
3.02	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE	(CE)	क्टिकटरक्ट्य इस्टिकटरक्ट्य	3.21	LEVEL SPREADER		
3.03	CONSTRUCTION ROAD STABILIZATION	(CRS)		3.22	VEGETATIVE STREAMBANK STABILIZATION	vss	
3.04	STRAW BALE BARRIER	(STB)		3.23	STRUCTURAL STREAMBANK STABILIZATION	SS9	<u> </u>
3.05	SILT FENCE	(SF)	**************************************	3.24	TEMPORARY VEHICULAR STREAM CROSSING	(vsc)	
3.06	BRUSH BARRIER	(BB)	600000000	3.25	UTILITY STREAM CROSSING	(USG)	
3.07	STORM DRAIN INLET PROTECTION	P		3.26	DEWATERING STRUCTURE	(OS)	
3.08	CULVERT INLET PROTECTION	CIP	9	3.27	TURBIDITY CURTAIN	(TO)	Ð¥
3.09	TEMPORARY DIVERSION DIKE	(00)	(a)	3.28	SUBSURFACE DRAIN	(SD)	
3.10	TEMPORARY FILL DIVERSION	FD		3.29	SURFACE ROUGHENING	SR	
3.11	TEMPORARY RIGHT-OF-WAY DIVERSION	(RWD)		3.30	TOPSOILING	(TO)	(TO)
3.12	DIVERSION	(v)	0	3.31	TEMPORARY SEEDING	TS	- Marie Constant Cons
3.13	TEMPORARY SEDIMENT TRAP	ST		3.32	PERMANENT SEEDING	PS	
3.14	TEMPORARY SEDIMENT BASIN	SB		3.33		(SO)	
3.15	TEMPORARY SLOPE DRAIN	TSD		3.34	BERMUDA GRASS AND ZOYSIAURASS ESTABLISHMENT		BE OR
3.16	PAVED FLUME	PF		3.35		(<u>M</u>)	
3.17	STORMWATER CONVEYANCE CHANNEL	SCO		3.36	DLAINNEIS AIND MAITING		JIEM MATERIE GALLETTERAL. 1 TREAL.
3.18	OUTLET PROTECTION	(OP)		3.37	TREES, SHRUBS, VINES AND GROUND COVERS	VEG	
3.19	RIPRAP	RR		3.38	TREE PRESERVATION AND PROTECTION		(IP)
	CRITICAL EROSION AREAS	name and a state of the last o	*	3.39	DUST CONTROL	(C)	

EROSION & SEDIMENT

CONTROL DETAILS



20 S. ROANOKE ST., PO BOX 619 FINCASTLE, VIRGINIA 24090 540.473.1253 FAX: 540.473.1254

ENGINEERING CONCEPTS, INC.