

ALSO SEE SHEET 12 FOR ADDITIONAL EROSION AND SEDIMENT CONTROL NOTES.

EROSION AND SEDIMENT CONTROL NARRATIVE

SOILS:
A SOILS MAP IS ATTACHED WHICH SHOWS THE LOCATION OF VARIOUS SOILS WITHIN THE CONSTRUCTION AREA.
THE FOLLOWING SYMBOLS CORRESPOND WITH SOIL TYPES ON THE MAP.

FILL SITE BASE SOIL (EXISTING SOIL TYPE AT TAX # 06.01-01-07)
SYMBOL SOIL NAME, TYPE, SLOPE RANGE # DISTURBED AREA
280 HAYESVILLE FINE SANDY LOAM, 15/25 1.04 AC.

SOIL AT THE PRESERVE AT TWO FORD ROAD
SYMBOL SOIL NAME, TYPE, SLOPE RANGE # DISTURBED AREA
280 HAYESVILLE FINE SANDY LOAM, 25/50 5.68 AC.

THE FOLLOWING PROPERTIES CORRESPOND WITH SOIL TYPES.
SYMBOL EROSION POTENTIAL PERMEABILITY
280 HIGH MODERATE
280 HIGH MODERATE

TYPICAL SEQUENCE, DEPTH AND COMPOSITION LAYERS IN THE SOILS ARE AS FOLLOWS:

280 Hayesville fine sandy loam, 15 to 25% slopes
Surface layer: 0-4 inches, dark brown fine sandy loam
Subsurface: 4 to 8 inches, brown fine sandy loam
Subsoil: 8 to 15 inches, strong brown loam
15 to 24 inches, yellowish red clay loam
24 to 43 inches, red clay
43 to 51 inches, red and yellowish red clay loam
51 to 61 inches, red, brownish yellow, and white sandy clay loam

280 Hayesville fine sandy loam, 25 to 50% slopes
Surface layer: 0-4 inches, dark brown fine sandy loam
Subsurface: 4 to 8 inches, brown fine sandy loam
Subsoil: 8 to 15 inches, strong brown loam
15 to 24 inches, yellowish red clay loam
24 to 43 inches, red clay
43 to 51 inches, red and yellowish red clay loam
51 to 61 inches, red, brownish yellow, and white sandy clay loam

CRITICAL AREAS:
IT IS CRITICAL THAT THE EROSION AND SEDIMENT CONTROL MEASURES BE MAINTAINED TO PREVENT ANY SEDIMENT FROM REACHING THE GLADE CREEK TRIBUTARY.

GENERAL STANDARDS:
ALL EROSION AND SEDIMENT CONTROL PRACTICES AND PROCEDURES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

MINIMUM STANDARDS:
SEE DCR'S MINIMUM STANDARDS LISTED ON THE ROANOKE COUNTY ESC DETAIL SHEET.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:
ROANOKE COUNTY, VIRGINIA

ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS 18VAC25-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.

ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE ON-SITE 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 THE FIRST STEP IN CLEARING.

ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND NARRATIVE, AS WELL AS A COPY OF THE LAND DISTURBING PERMIT, SHALL BE MAINTAINED ON THE SITE AT ALL TIMES. THE EROSION AND SEDIMENT CONTROL ADMINISTRATOR WILL DELIVER THESE MATERIALS AT THE ON-SITE PRECONSTRUCTION CONFERENCE.

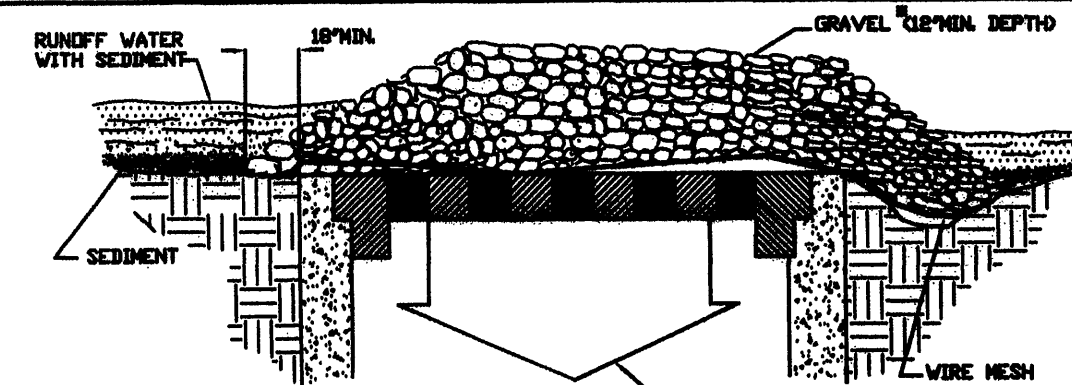
ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

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 BE DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING THE LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.

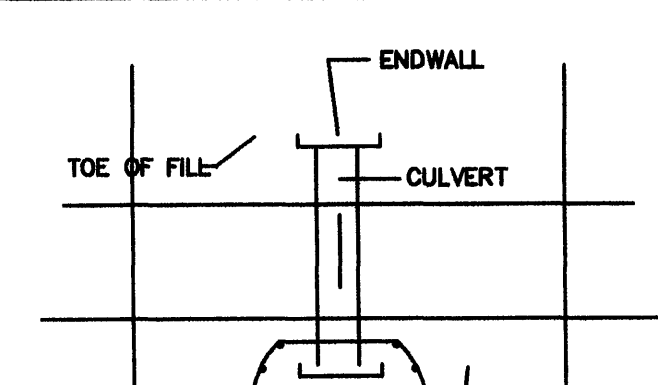
ES-8: DURING DRAINAGE OPERATION, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.

ES-9: 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 IMMEDIATELY. AN INSPECTION REPORT MUST BE FILED WITH THE BOYD/COURT COUNTY EROSION AND SEDIMENT CONTROL ADMINISTRATOR EVERY TWO WEEKS, BEGINNING WITH COMMENCEMENT OF THE LAND DISTURBING ACTIVITY AND WITHIN 48 HOURS OF ANY RUNOFF-PRODUCING RAINFALL EVENT. FAILURE TO SUBMIT A REPORT WILL BE GROUNDS FOR IMMEDIATE REVOCATION OF THE LAND DISTURBING PERMIT. REPORTS MUST BE POSTMARKED WITHIN 24 HOURS OF THE DEADLINE. A STANDARD INSPECTION REPORT FORM WILL BE SUPPLIED, WHICH SHOULD BE COMPLETED AS NECESSARY. THIS PROVISION IN NO WAY INVADES THE RIGHT OF BOYD/COURT COUNTY PERSONNEL TO CONDUCT SITE INSPECTIONS, NOR DOES IT DENY THE RIGHT OF THE PERMITTEE (S) TO ACCOMPANY THE INSPECTOR (S).



SPECIFIC APPLICATION
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, #37 or #5 coarse aggregate.

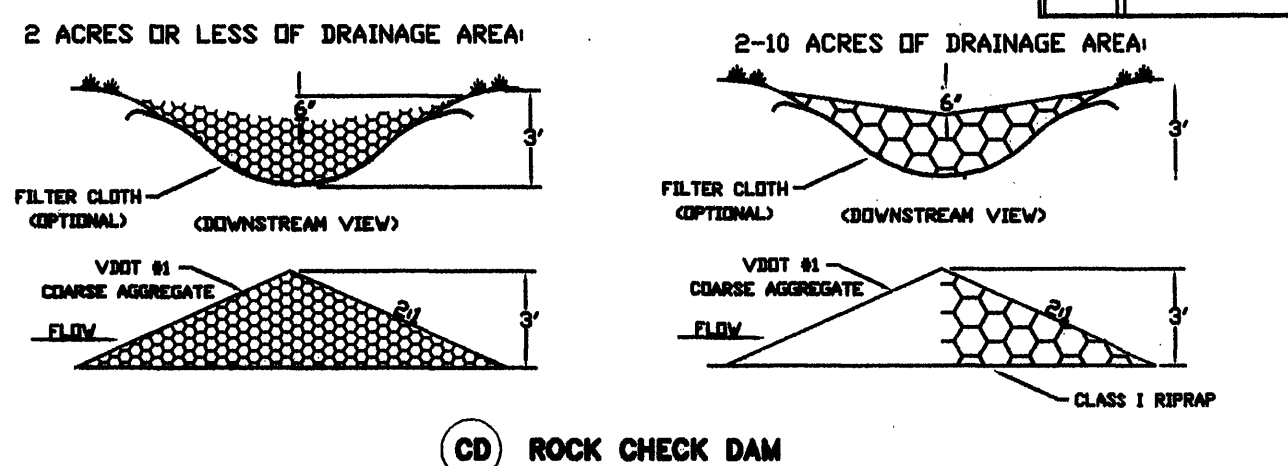
IP GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER



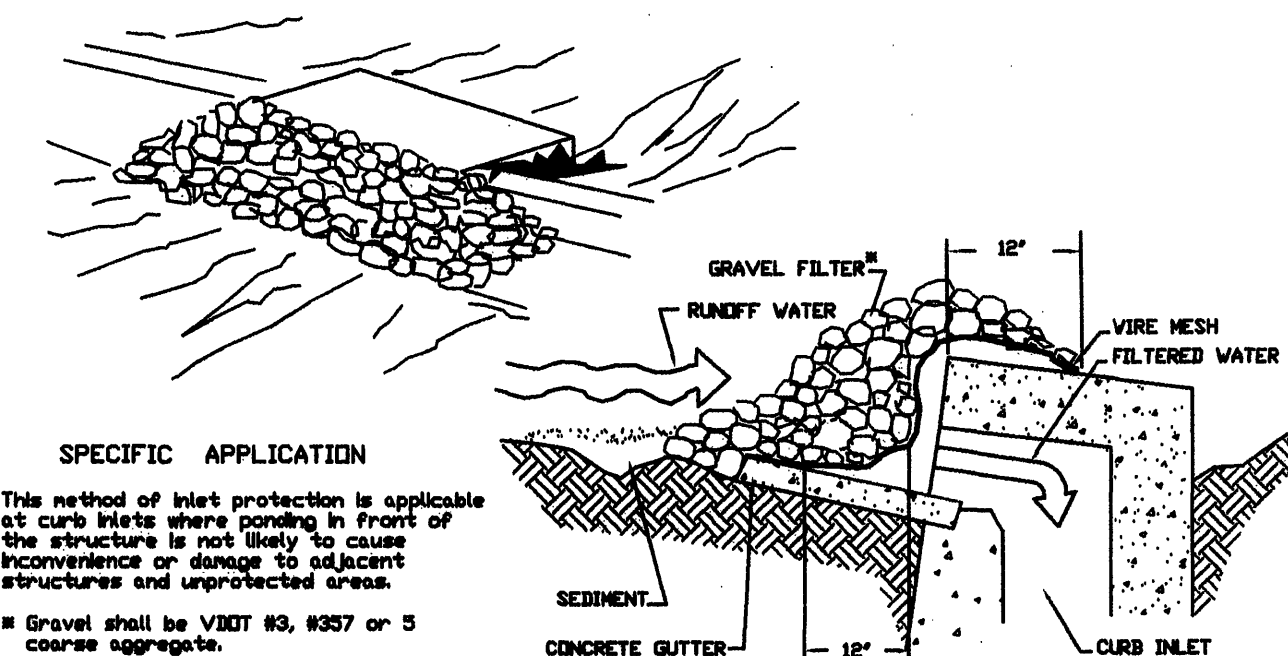
SPECIFIC APPLICATION
This method of inlet protection is applicable where heavy flows are expected and where an overflow capability and ease of maintenance are desirable.

CIP SILT FENCE CULVERT INLET PROTECTION

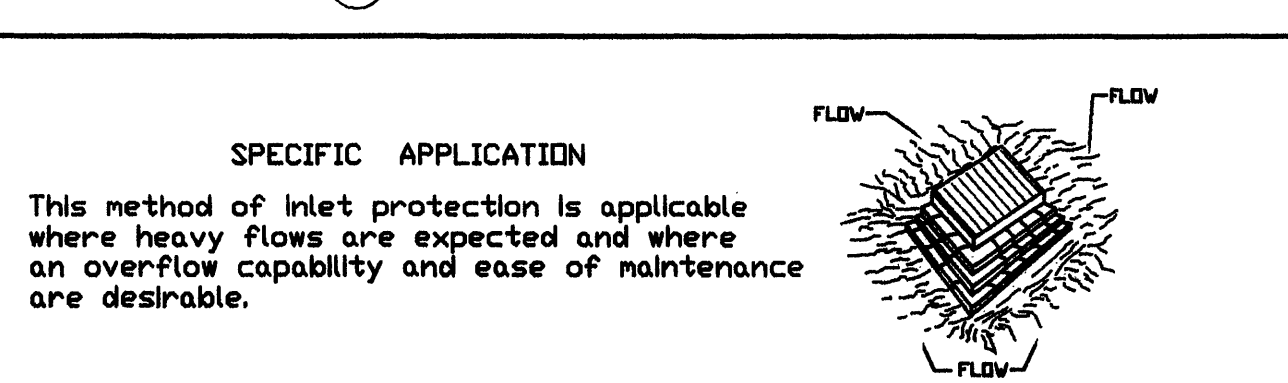
NO.	TITLE	KEY	SYMBOL	NO.	TITLE	KEY	SYMBOL
3.01	SAFETY FENCE	SAF		3.20	ROCK CHECK DAMS	CD	
3.02	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE	CE		3.21	LEVEL SPREADER	LS	
3.03	CONSTRUCTION ROAD STABILIZATION	CRS		3.22	VEGETATIVE STREAMBANK STABILIZATION	VSS	
3.04	STRAW BALE BARRIER	STB		3.23	STRUCTURAL STREAMBANK STABILIZATION	SSS	
3.05	SILT FENCE	SF		3.24	TEMPORARY VEHICULAR STREAM CROSSING	VSC	
3.06	BRUSH BARRIER	BB		3.25	UTILITY STREAM CROSSING	USC	
3.07	STORM DRAIN INLET PROTECTION	IP		3.26	DEWATERING STRUCTURE	DS	
3.08	CULVERT INLET PROTECTION	CIP		3.27	TURBIDITY CURTAIN	TC	
3.09	TEMPORARY DIVERSION DIKE	DD		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	TD	
3.12	DIVERSION	DV		3.31	TEMPORARY SEEDING	TS	
3.13	TEMPORARY SEDIMENT TRAP	ST		3.32	PERMANENT SEEDING	PS	
3.14	TEMPORARY SEDIMENT BASIN	SB		3.33	SODDING	SD	
3.15	TEMPORARY SLOPE DRAIN	TS		3.34	BERMUDA GRASS AND ZOISYAGRASS ESTABLISHMENT	ZE	
3.16	PAVED FLUME	PF		3.35	MULCHING	MU	
3.17	STORMWATER CONVEYANCE CHANNEL	SCC		3.36	SOIL STABILIZATION BLANKETS AND MATTING TREES, SHRUBS, VINES AND GROUND COVERS	N	
3.18	OUTLET PROTECTION	OP		3.37	TREE PRESERVATION AND PROTECTION	TP	
3.19	RIPRAP	RR		3.38			
				3.39	DUST CONTROL	DC	



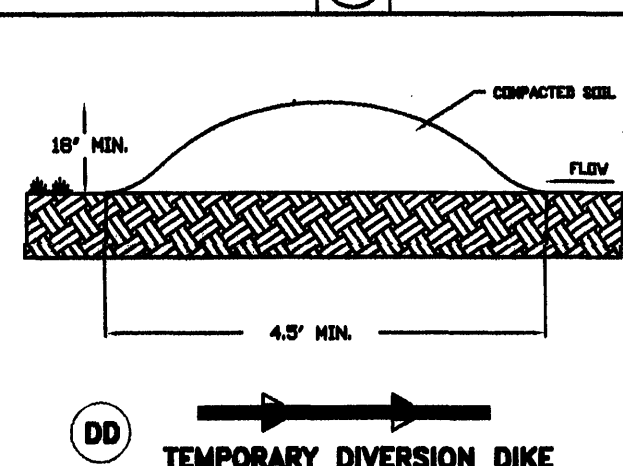
CD ROCK CHECK DAM



IP GRAVEL CURB INLET SEDIMENT FILTER



IP EXCAVATED DROP INLET SEDIMENT TRAP



DD TEMPORARY DIVERSION DIKE



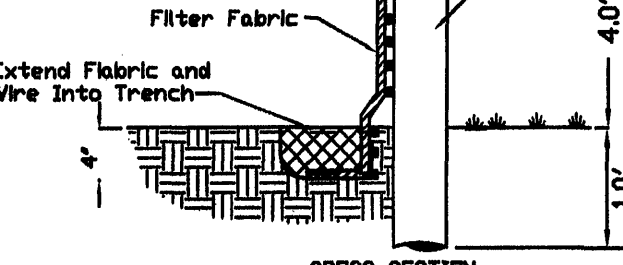
FD TEMPORARY FILL DIVERSION



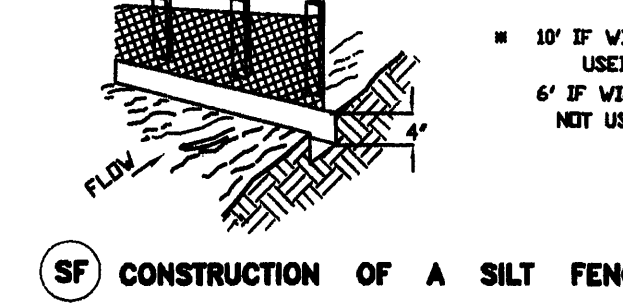
RWD TEMPORARY RIGHT-OF-WAY DIVERSION



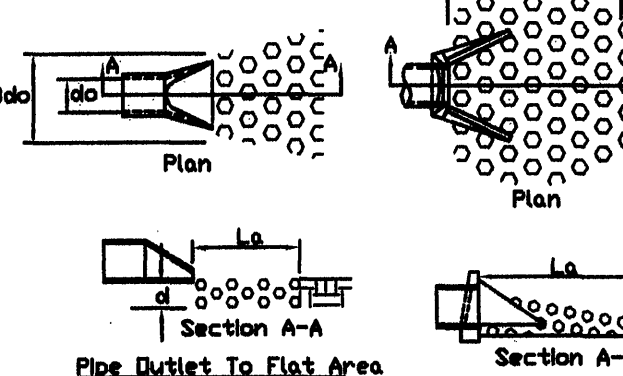
DV DIVERSION



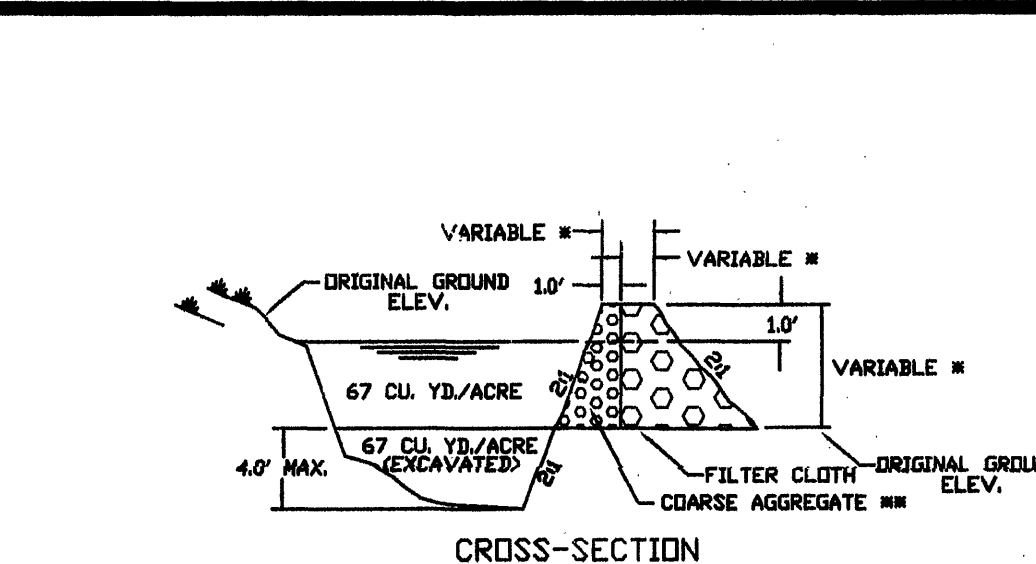
SF CONSTRUCTION OF A SILT FENCE



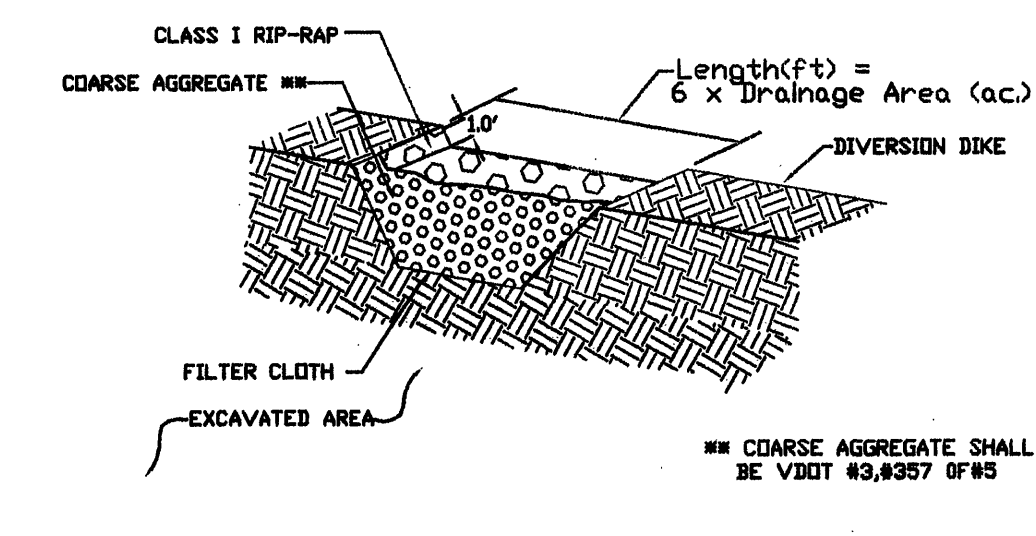
OP OUTLET PROTECTION



CE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



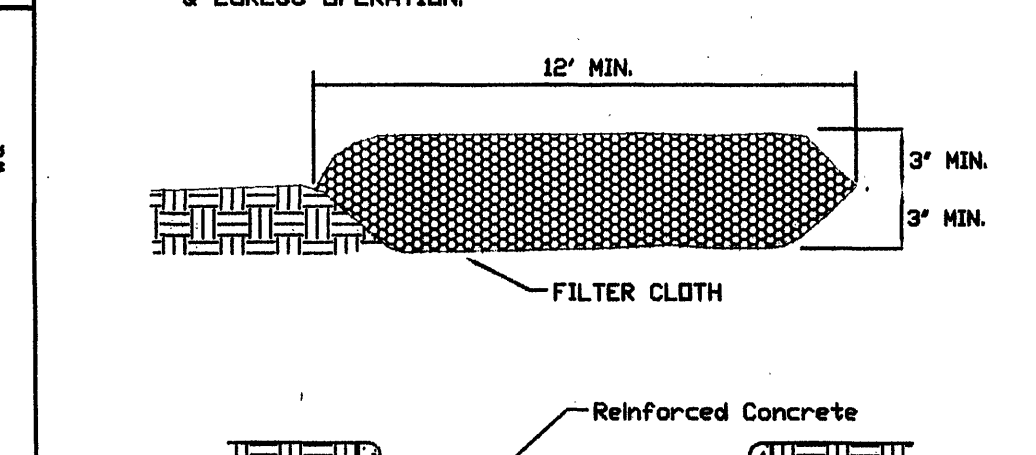
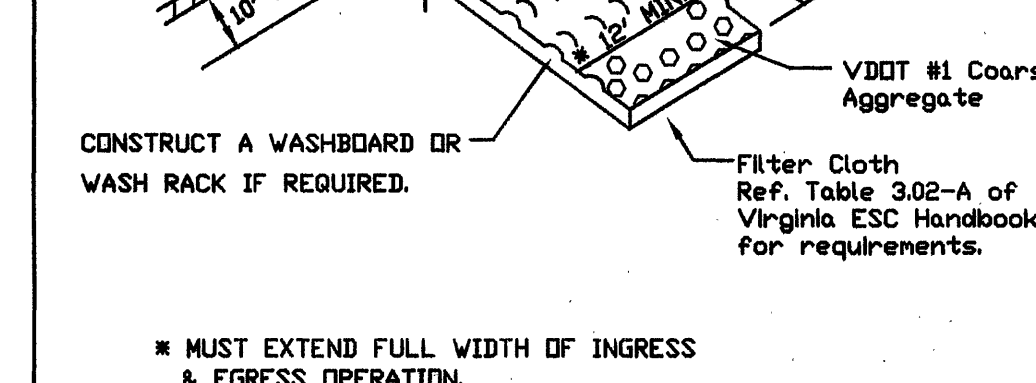
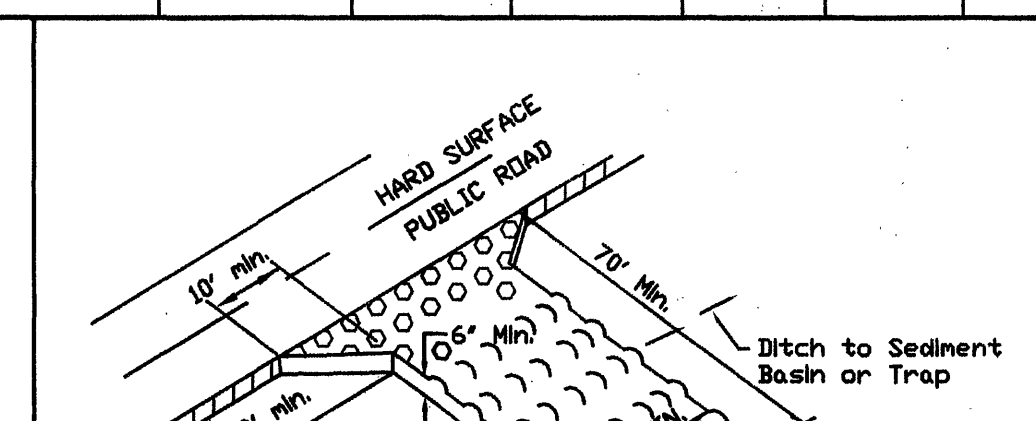
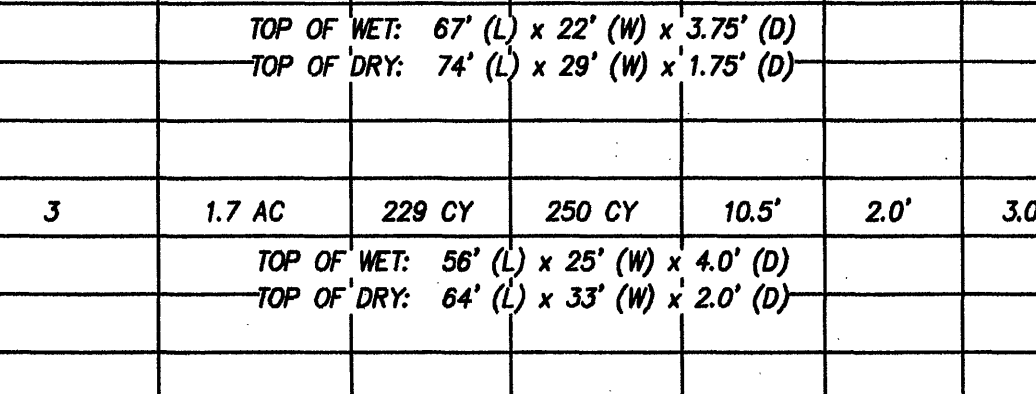
ST SEDIMENT TRAP



TEMPORARY SEDIMENT TRAP DATA

NOTE: FOR AREAS LESS THAN 3.0 ACRES, FOR AREAS LARGER THAN 3.0 ACRES A SEDIMENT BASIN IS REQUIRED. SEE DETAIL THIS SHEET.

TEMPORARY SEDIMENT TRAP DATA						
STRUCTURE	DRAINAGE AREA (ACRES)	STORAGE (C.Y.)		WEIR LENGTH (FT.)	WEIR HEIGHT (FT.)	BERM HEIGHT (FT.)
		REQ'D	DESIGN			
1	2.1 AC	279 CY	286 CY	12.5'	2.0'	3.0'
	TOP OF WET: 69' (L) x 23' (W) x 4.5' (D)					
	TOP OF DRY: 77' (L) x 31' (W) x 2.0' (D)					
2	1.7 AC	229 CY	237 CY	10.5'	1.75'	2.75'



PS PERMANENT SEEDING MIXTURE

EROSION-SILTATION CONTROL COST ESTIMATE

(1) BONDED WITH APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR "WEDGEWOOD" DATED SEPTEMBER 8, 2004.

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
SILT FENCE	LF	1,337	\$ 3.00	\$ 4,011.00
TEMPORARY DIVERSION DIKE	LF	1,154	\$ 2.00	\$ 2,308.00
SEDIMENT TRAP	EA	1	\$ 1,000.00	\$ 1,000.00
TEMPORARY AND PERMANENT SEEDING	ACRE	3.31	\$ 2,000.00	\$ 6,620.00
CULVERT INLET PROTECTION	EA	1	\$ 75.00	\$ 75.00

ALSO SEE APPROVED EROSION AND SEDIMENT CONTROL PLAN DATED: 3 JAN. 2005.

SUB-TOTAL				\$ 14,014.00
10% CONTINGENCY				\$ 1,402.00
TOTAL PROJECT COST				\$ 15,416.00

ALL COSTS GIVEN ABOVE ARE COMPLETE IN PLACE

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- 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 PRACTICAL.
- IN NO CASE DURING CONSTRUCTION SHALL WATER RUNOFF BE DIVERTED OR ALLOWED TO FLOW TO LOCATIONS WHERE ADEQUATE PROTECTION HAS NOT BEEN PROVIDED.
- 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.
- 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.

TS TEMPORARY SEEDING MIXTURE

PLANTING DATES	SPECIES	RATE (LBS./ACRE)
SEPT. 1 - FEB. 15	50/50 MIX OF ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM) & CEREAL (WINTER) RYE (SECALE CEREALE)	50 - 100
FEB. 16 - APR. 30	ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM)	60 - 100
MAY. 1 - AUG. 31	GERMAN MILLET (SETARIA ITALICA)	50

TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

PS PERMANENT SEEDING MIXTURE

TYPE A	TYPE B (SLOPES 3:1 OR STEEPER)
15 OCTOBER TO 1 FEBRUARY K-31 FESCUE @ 5 LB / 1000 SF BORZY WINTER RYE @ 1/2 LB / 1000 SF	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
1 FEBRUARY TO 1 JUNE K-31 FESCUE @ 5 LB / 1000 SF ANNUAL RYE @ 1/2 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
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	
LIME: 140 LB / 1000 SF PULVERIZED AGRICULTURAL LIMESTONE	
FERTILIZER: 5-20-0 @ 25 LB / 1000 SF 38-0-0 @ 7 LB / 1000 SF	
MULCH: IF REQUIRED, SHALL BE USED OVER ALL SEEDING 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 SEEDINGS, 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 CYCLODNE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRIC SEEDER ON A FIRM, FRIABLE, SEEDBED. MAXIMUM SEEDING DEPTH SHALL BE 1/4 INCH.	

TOTAL DISTURBED AREA = 5.68 AC.