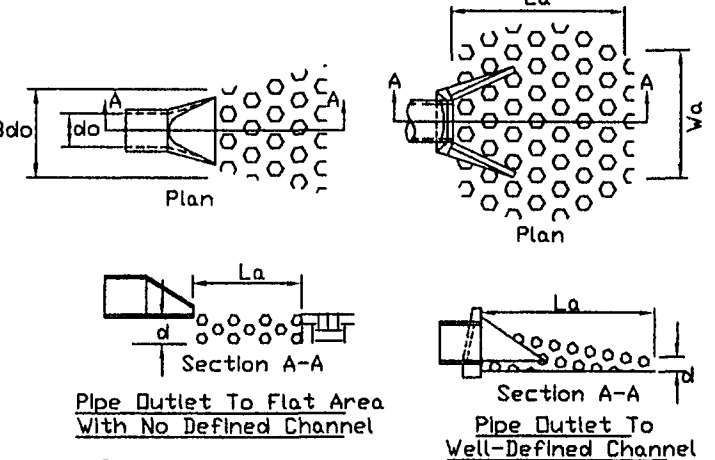
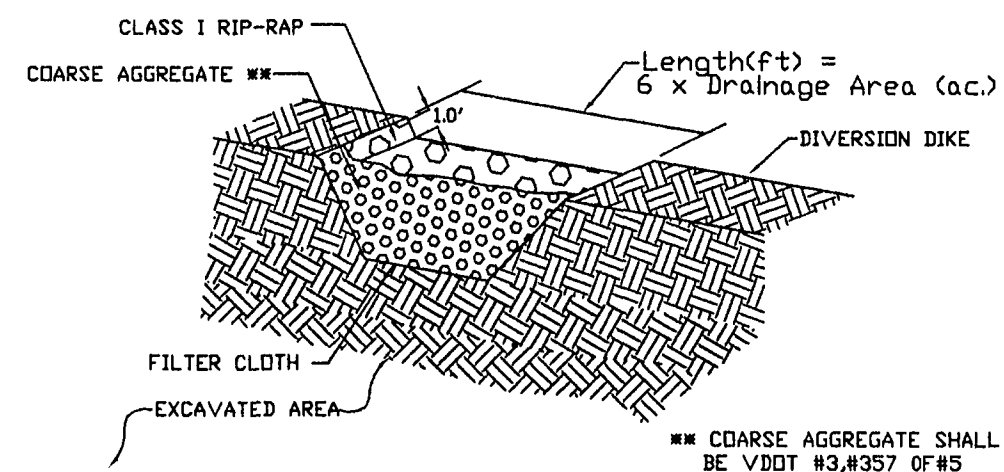
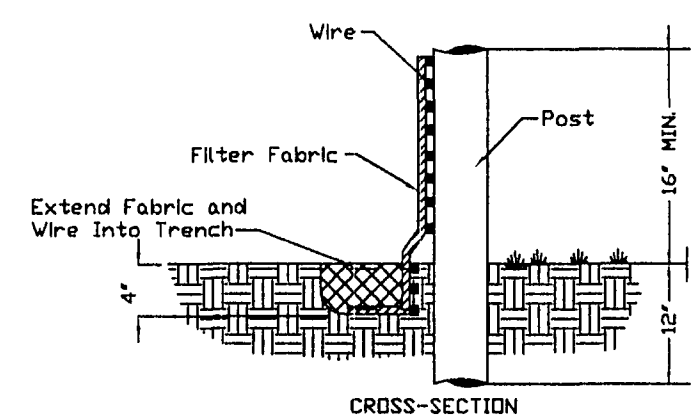
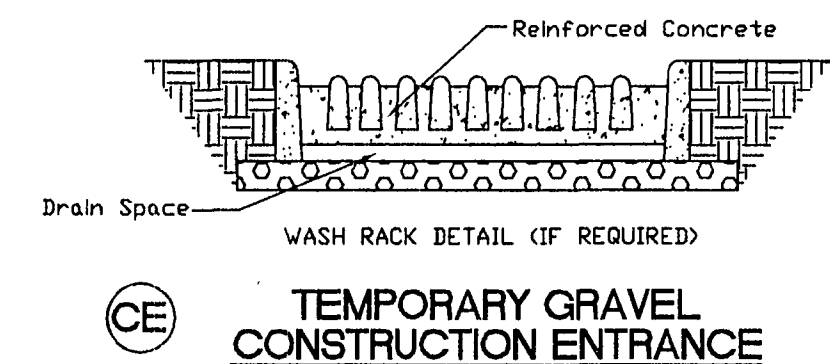
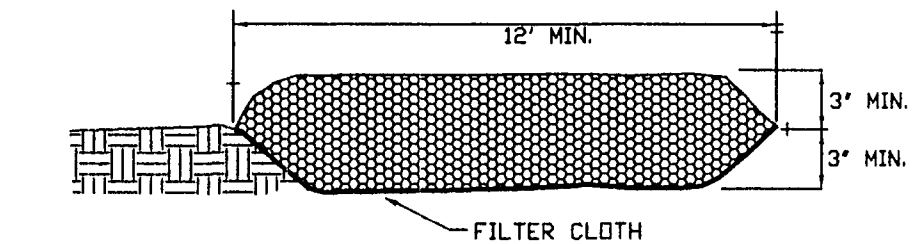


SEE PLATE 313-1

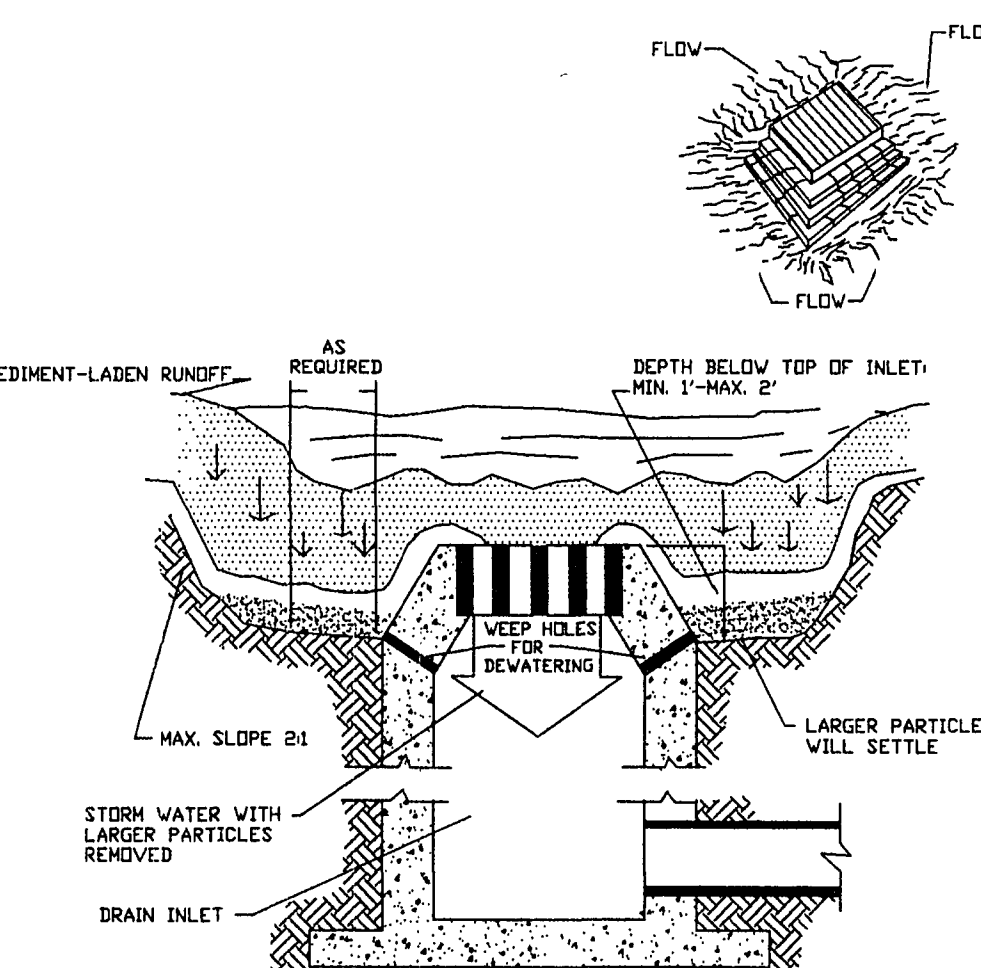
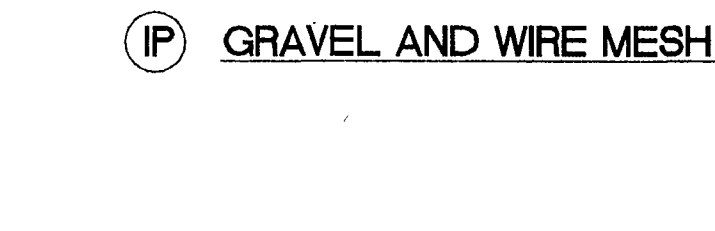
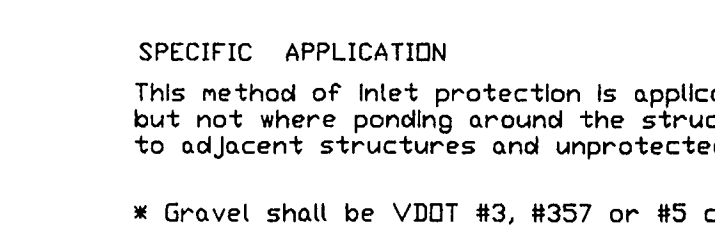
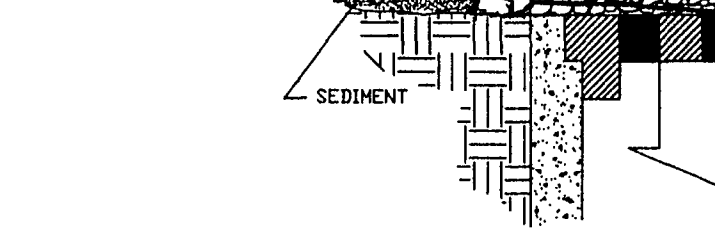
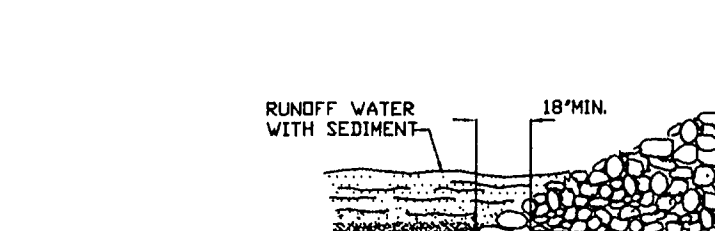
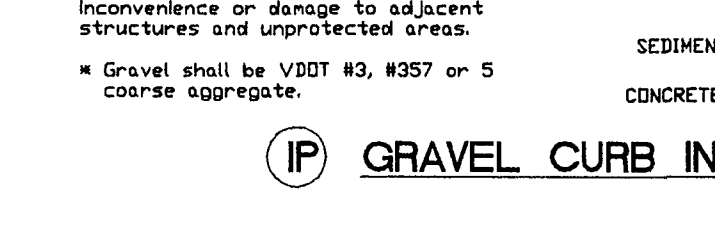
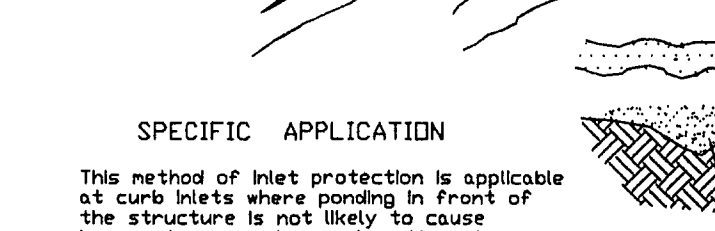
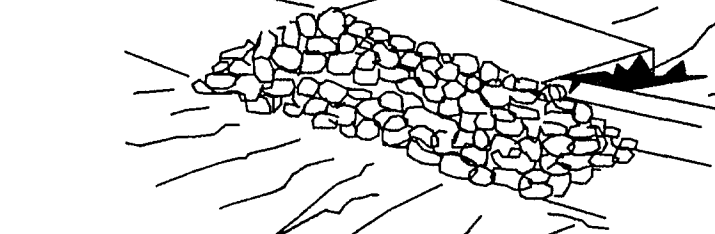
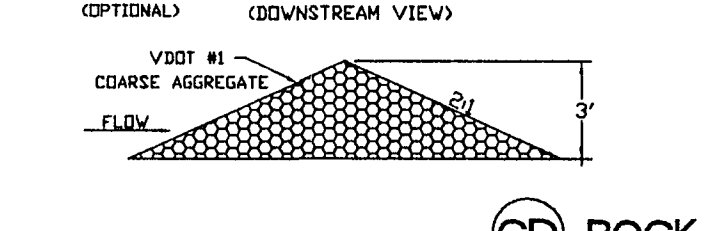
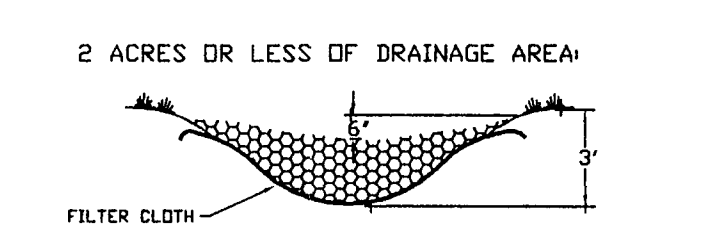
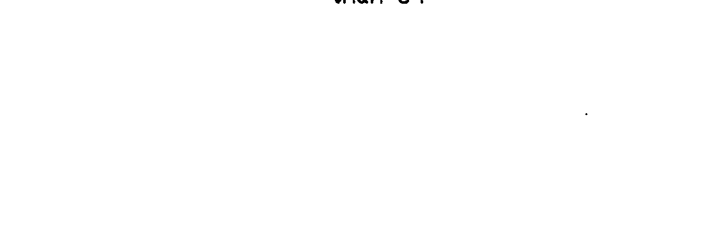
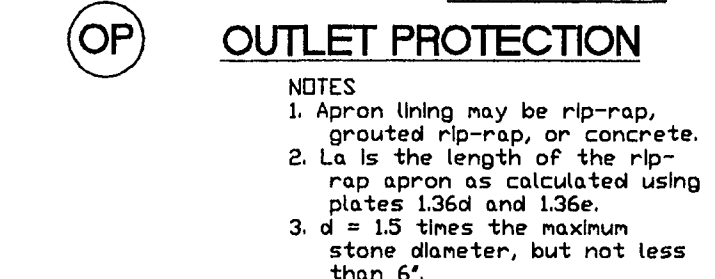


SEDIMENT TRAP

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

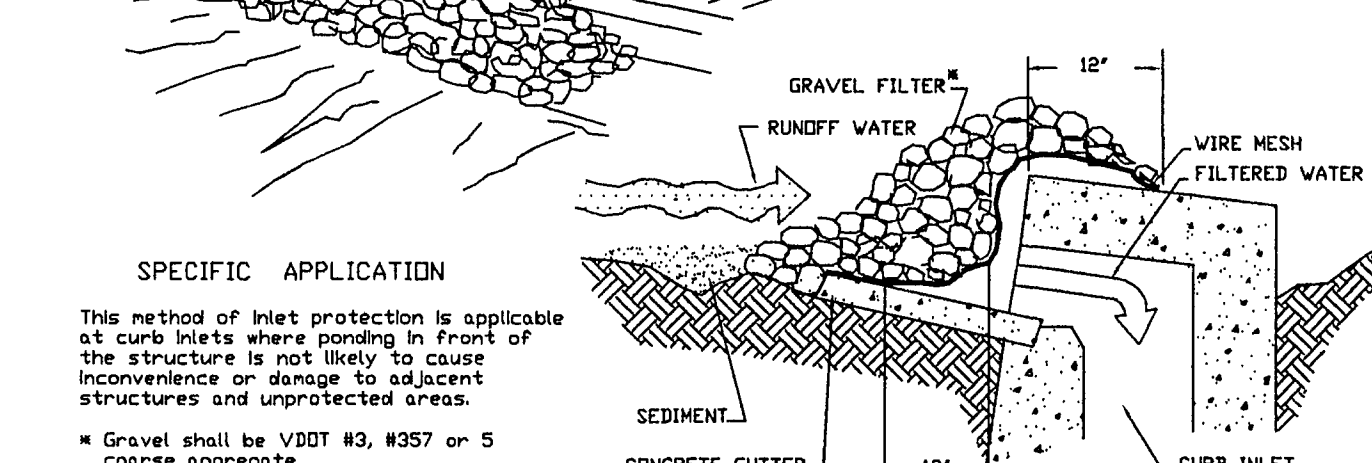


CONSTRUCTION OF A SILT FENCE

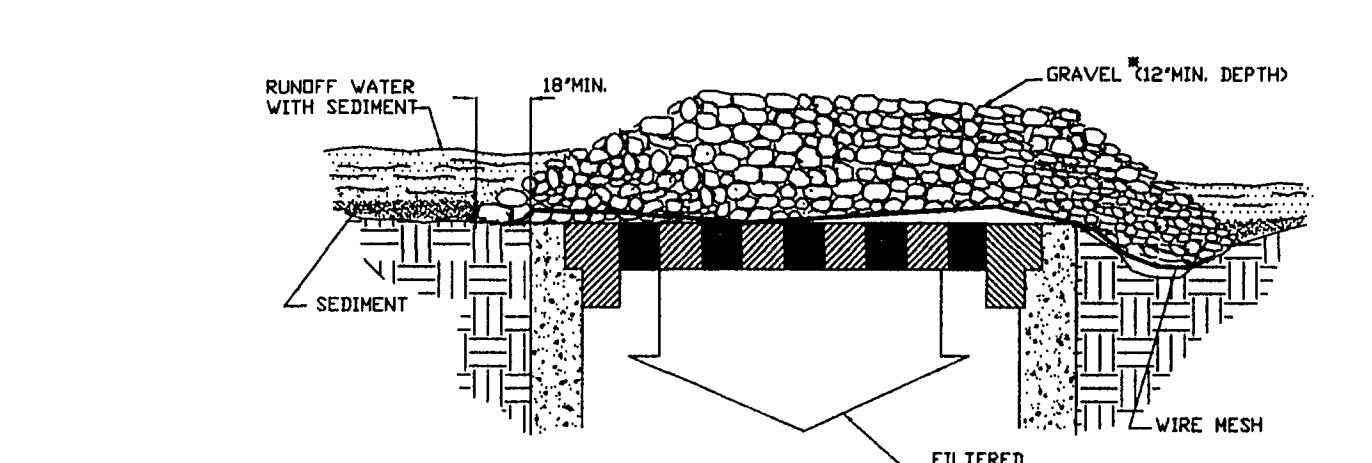


EXCAVATED DROP INLET SEDIMENT TRAP

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPABILITY AND EASE OF MAINTENANCE ARE DESIRABLE.



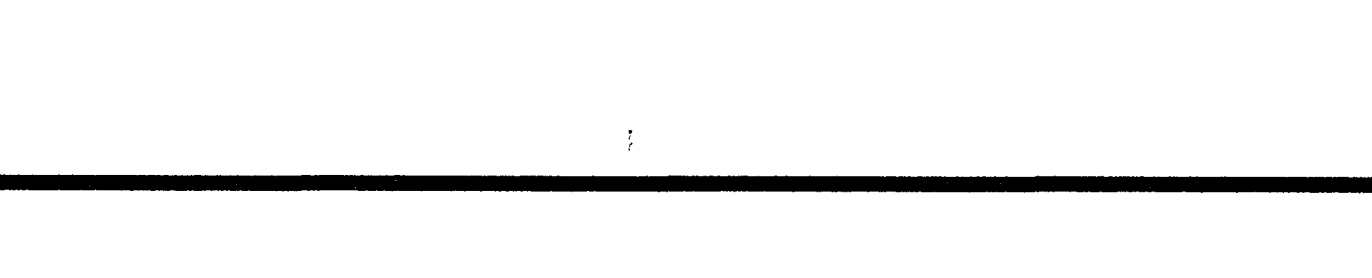
GRAVEL CURB INLET SEDIMENT FILTER



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.

GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER



TEMPORARY SEDIMENT TRAP DATA					
STRUCTURE	DRAINAGE AREA (ACRES)	STORAGE (C.Y.)		WEIR LENGTH (FT.)	WEIR HEIGHT (FT.)
		REQ'D	DESIGN		
ST 1	3.0	DRY 201	44274 X 1.5'	18	1.5
		WET 201	38168 X 2.0'		2.5

NO.	TITLE	KEY	SYMBOL	NO.	TITLE	KEY	SYMBOL
3.01	SAFETY FENCE	SF	[Symbol]	3.20	ROCK CHECK DAMS	CD	[Symbol]
3.02	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE	CE	[Symbol]	3.21	LEVEL SPREADER	LS	[Symbol]
3.03	CONSTRUCTION ROAD STABILIZATION	CRS	[Symbol]	3.22	VEGETATIVE STREAM BANK STABILIZATION	VSS	[Symbol]
3.04	STRAW BALE BARRIER	STB	[Symbol]	3.23	STRUCTURAL STREAM BANK STABILIZATION	SSS	[Symbol]
3.05	SILT FENCE	SF	[Symbol]	3.24	TEMPORARY VEHICULAR STREAM CROSSING	VSC	[Symbol]
3.06	BRUSH BARRIER	BB	[Symbol]	3.25	UTILITY STREAM CROSSING	USC	[Symbol]
3.07	STORM DRAIN INLET PROTECTION	IP	[Symbol]	3.26	DEWATERING STRUCTURE	DS	[Symbol]
3.08	CULVERT INLET PROTECTION	CIP	[Symbol]	3.27	TURBIDITY CURTAIN	TC	[Symbol]
3.09	TEMPORARY DIVERSION DIKE	DD	[Symbol]	3.28	SUBSURFACE DRAIN	SD	[Symbol]
3.10	TEMPORARY FILL DIVERSION	FD	[Symbol]	3.29	SURFACE ROUGHENING	SR	[Symbol]
3.11	TEMPORARY RIGHT-OF-WAY DIVERSION	RWD	[Symbol]	3.30	TOPSOILING	TD	[Symbol]
3.12	DIVERSION	DV	[Symbol]	3.31	TEMPORARY SEEDING	TS	[Symbol]
3.13	TEMPORARY SEDIMENT TRAP	ST	[Symbol]	3.32	PERMANENT SEEDING	PS	[Symbol]
3.14	TEMPORARY SEDIMENT BASIN	SB	[Symbol]	3.33	SODDING	SD	[Symbol]
3.15	TEMPORARY SLOPE DRAIN	TSd	[Symbol]	3.34	BERMUDA GRASS AND ZOYSIAURASS ESTABLISHMENT	BZ	[Symbol]
3.16	PAVED FLUME	PF	[Symbol]	3.35	MULCHING	MU	[Symbol]
3.17	STORMWATER CONVEYANCE CHANNEL	SCC	[Symbol]	3.36	SOIL STABILIZATION BLANKETS AND MATING TREES, SHRUBS, VINES AND GROUND COVERS	VEG	[Symbol]
3.18	OUTLET PROTECTION	OP	[Symbol]	3.37	TREE PRESERVATION AND PROTECTION	TP	[Symbol]
3.19	RIPRAP	RR	[Symbol]	3.38			
				3.39	DUST CONTROL	DC	[Symbol]

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION
THIS PROJECT CONSISTS OF THE CONSTRUCTION OF 26 SINGLE FAMILY DWELLINGS AND ASSOCIATED AREAS, STORM DRAIN, WATER AND SANITARY SEWER SYSTEMS.

EXISTING SITE CONDITIONS
THIS SITE IS COVERED WITH INDIGENOUS VEGETATION WITH SOME TREES. THE NORTHERN THIRD OF THE SITE DRAINS BY SHEET FLOW OFFSITE TO THE NORTH. THE REST OF THE SITE DRAINS BY SHEET FLOW TO THE SOUTHWEST TO ADJACENT RESIDENTIAL LOTS.

OFFSITE AREAS
NO OFFSITE FILL SITES ARE COVERED BY THIS EROSION AND SEDIMENT CONTROL PLAN.

EROSION AND SEDIMENT CONTROL MEASURES
CONSTRUCTION ENTRANCE (3.02) - A STONE CONSTRUCTION ENTRANCE WILL BE INSTALLED TO MINIMIZE THE AMOUNT OF MUD TRANSPORTED INTO EXISTING STREETS.

SILT FENCE (3.05) SILT FENCE WILL BE PLACED DOWNSTREAM OF DISTURBED AREAS TO PREVENT SEDIMENT FROM LEAVING THE SITE.

STORM DRAIN INLET PROTECTION (3.07) - WILL BE INSTALLED TO INTERCEPT SEDIMENT-LADEN RUN-OFF PRIOR TO ENTERING THE STORM DRAIN SYSTEM.

DIVERSION DIKE (3.12) - DIVERSION DIKES WILL BE UTILIZED TO DIVERT RUN-OFF INTO THE SEDIMENT TRAP OR BASIN.

SEDIMENT TRAP (3.13) - AN EXISTING SEDIMENT TRAP WILL BE UTILIZED AND A SECOND SEDIMENT TRAP INSTALLED TO DETAIN SEDIMENT-LADEN RUN-OFF LONG ENOUGH TO ALLOW THE MAJORITY OF THE SEDIMENT TO SETTLE OUT.

SEDIMENT BASIN (3.14) - A SEDIMENT BASIN WILL BE CONSTRUCTED WHERE THE DETENTION POND WILL BE INSTALLED TO DETAIN SEDIMENT-LADEN RUN-OFF LONG ENOUGH TO ALLOW THE MAJORITY OF THE SEDIMENT TO SETTLE OUT. THE STORM DRAIN SYSTEM FROM THE BASIN TO THE EXISTING STORM DRAIN SYSTEM MUST BE INSTALLED PRIOR TO GRADING TO CONVEY SEDIMENT FREE RUNOFF FROM THE BASIN TO THE EXISTING SYSTEM.

PERMANENT STABILIZATION
ALL AREAS ON-SITE WHICH WILL NOT RECEIVE BUILDINGS OR PAVEMENT MUST RECEIVE PERMANENT SEEDING AS SOON AS THOSE AREAS REACH FINAL GRADE.

STORMWATER MANAGEMENT
THE DEVELOPMENT OF THIS SITE RESULTS IN AN INCREASE IN PEAK RUN-OFF RATES. THEREFORE, THE SEDIMENT BASIN WILL BE CONVERTED TO A DETENTION POND WHEN THE ROADS AND STORM DRAIN SYSTEM ARE COMPLETE.

MAINTENANCE
ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL. IN PARTICULAR:

- THE SEDIMENT TRAP AND BASIN WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP. CLEAN OUT AS NECESSARY TO MAINTAIN DESIGN VOLUMES.
- OUTLET PROTECTION WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP WHICH WILL PREVENT DRAINAGE. IF STONE IS CLOGGED BY SEDIMENT, IT WILL BE REMOVED AND CLEANED OR REPLACED.
- THE SILT FENCE WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT BUILDUP REACHES THE MIDWAY POINT OF THE SILT FENCE.
- ALL SEEDING AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND OF GRASS IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEEDING AS REQUIRED TO ACHIEVE A GOOD STAND OF GRASS.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- ALL 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 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 AND SEDIMENT 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 AND SEDIMENT CONTROL PLANS SUBMITTED.

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:

- ALL SEDIMENT TRAPS AND BASINS WILL BE CHECKED REGULARLY FOR NECESSARY SEDIMENT REMOVAL.
- ALL STORM DRAIN INLETS AND OUTLETS WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP.
- ALL SILT BARRIERS WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION.
- ALL SEEDING AREAS WILL BE CHECKED REGULARLY TO SEE THAT GOOD STABILIZATION IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RESEEDING 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 TO STANDARD AND SPECIFICATION 3.32 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. PERMANENTLY SEEDING AREAS SHALL BE PROTECTED DURING ESTABLISHMENT WITH STRAW MULCH.

PERMANENT SEEDING MIXTURE

TYPE A	TYPE B (SLOPES 3:1 OR STEEPER)
15 OCTOBER TO 1 FEBRUARY K-31 FESCUE @ 5 LB / 1000 SF BORYZ 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: 5-20-10 @ 25 LB / 1000 SF

30-0-0 @ 7 LB / 1000 SF

MULCH: IF REQUIRED, SHALL BE USED OVER ALL SEEDING AREAS AND SHALL BE APPLIED IN ACCORDANCE WITH SECTION 1.72 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 EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. ADDITIONAL SEEDING TO BE PERFORMED AS REQUIRED BY THE INSPECTOR.

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