

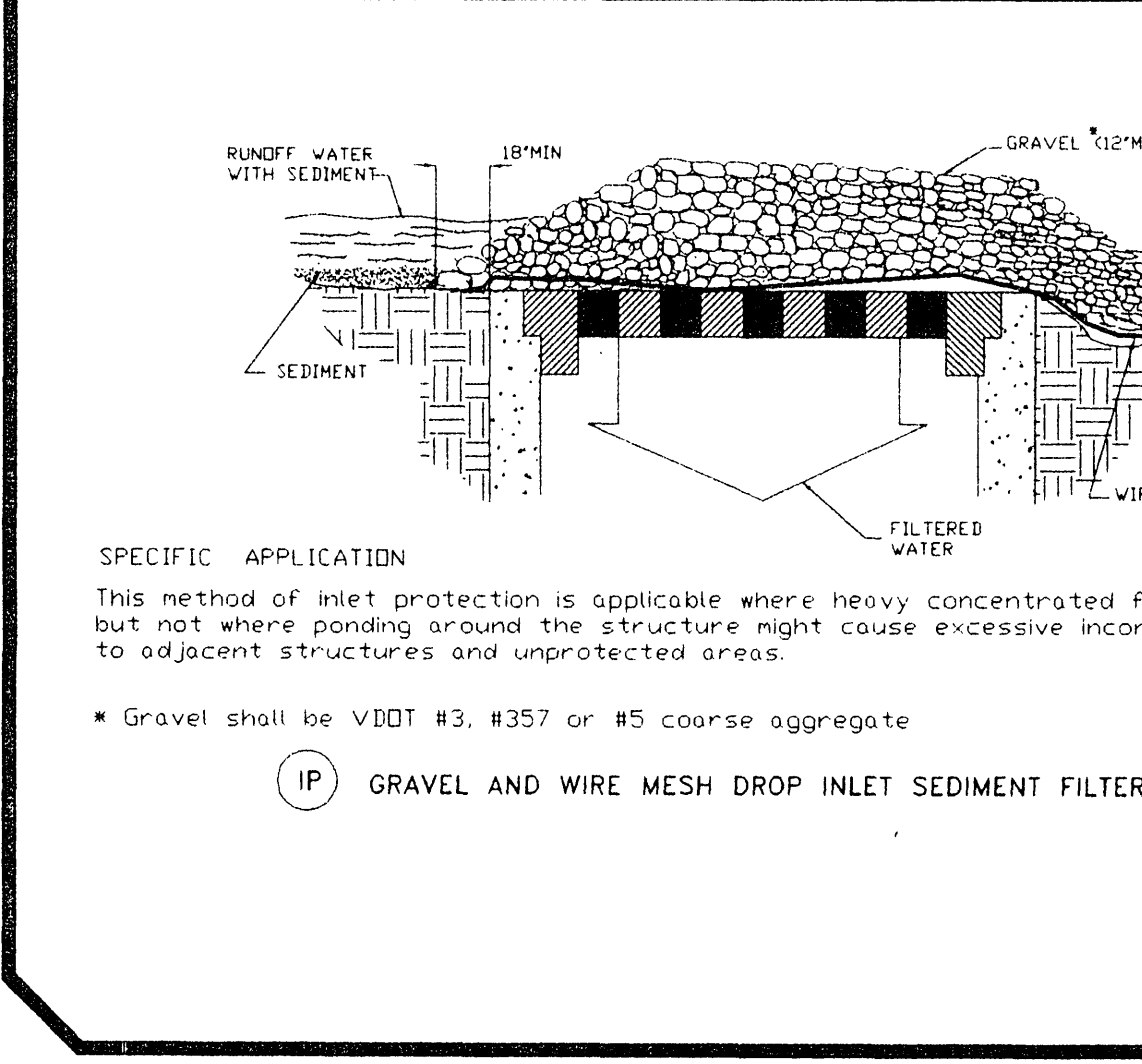
STORMWATER MANAGEMENT COST ESTIMATE				
ALL COSTS GIVEN ARE COMPLETE IN PLACE				
DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
CLEARING & GRUBBING	LS		\$	\$
EXCAVATION	CY			
EMBANKMENT	CY			
FENCING	LF			
STRUCTURES				
ACCESS ROAD				
AS-BUILTS				
SUB-TOTAL				\$
10% CONTINGENCY				\$
TOTAL PROJECT COST				\$

The diagram consists of two cross-sectional views of a sediment basin, labeled (a) and (b).

Diagram (a): DESIGN ELEVATIONS WITH EMERGENCY SPILLWAY
 This diagram shows a sediment basin with a spillway on the right side. Key features include:
 - **DESIGN HIGH WATER (25-YR. STORM ELEV.)**: Indicated by a dashed line on the left.
 - **67 C.Y./AC. "DRY" STORAGE**: The upper storage area.
 - **67 C.Y./AC. "WET" STORAGE**: The lower storage area, indicated by hatching.
 - **SEDIMENT CLEANOUT POINT**: Located at the bottom left of the basin.
 - **DEWATERING DEVICE**: A structure within the wet storage area.
 - **RISER CREST**: The top edge of the dewatering device.
 - **CREST OF EMERGENCY SPILLWAY**: The top edge of the basin's right side.
 - **Dimensions**: A 0.5' vertical distance from the wet storage bottom to the riser crest, and a MIN. 10' horizontal distance from the riser crest to the spillway crest.

Diagram (b): DESIGN ELEVATIONS WITHOUT EMERGENCY SPILLWAY
 This diagram shows a similar sediment basin but without a spillway. Key features include:
 - **DESIGN HIGH WATER (25-YR. STORM ELEV.)**: Indicated by a dashed line on the left.
 - **67 C.Y./AC. "DRY" STORAGE**: The upper storage area.
 - **67 C.Y./AC. "WET" STORAGE**: The lower storage area, indicated by hatching.
 - **SEDIMENT CLEANOUT POINT**: Located at the bottom left of the basin.
 - **DEWATERING DEVICE**: A structure within the wet storage area.
 - **RISER CREST**: The top edge of the dewatering device.
 - **Dimensions**: A 0.5' vertical distance from the wet storage bottom to the riser crest, and a MIN. 10' horizontal distance from the riser crest to the right edge of the basin. The right edge of the basin is higher than in diagram (a), with a MIN. 20' horizontal distance from the riser crest and a MIN. 30' vertical distance from the wet storage bottom to the top right corner.

Figure 1: Typical Pipe Outlet To Well-Defined Channel. The figure includes a plan view of a pipe outlet with dimensions L_0 , A , and G_0 , and a cross-section A-A showing the pipe outlet to a well-defined channel. Below the diagrams are five options for the outlet structure: (DD) TEMPORARY DIVERSION DIKE, (FD) TEMPORARY FILL DIVERSION, (RWD) TEMPORARY RIGHT-OF-WAY DIVERSION, and (DV) DIVERSION. Each option is represented by a symbol in a circle and a corresponding diagram showing the structure's profile and flow direction.



ACRES OR LESS OF DRAINAGE AREA

2-10 ACRES OF DRAINAGE AREA

FILTER CLOTH (OPTIONAL)

(DOWNSTREAM VIEW)

VDOT #1
COARSE AGGREGATE

FLOW

3'

6'

FILTER CLOTH (OPTIONAL)

(DOWNSTREAM VIEW)

VDOT #1
COARSE AGGREGATE

FLOW

3'

6'

CLASS 1 RIPRAP

(CD) ROCK CHECK DAM

SEE PLATE 3-13-1

CROSS-SECTION OF SEDIMENT TRAP

VARIABLE

ORIGINAL GROUND ELEV.

67 CU. YD./ACRE

67 CU. YD./ACRE
(EXCAVATED)

40' MAX.

10'

CLASS 1 RIP-RAP

COARSE AGGREGATE

FILTER CLOTH

EXCAVATED AREA

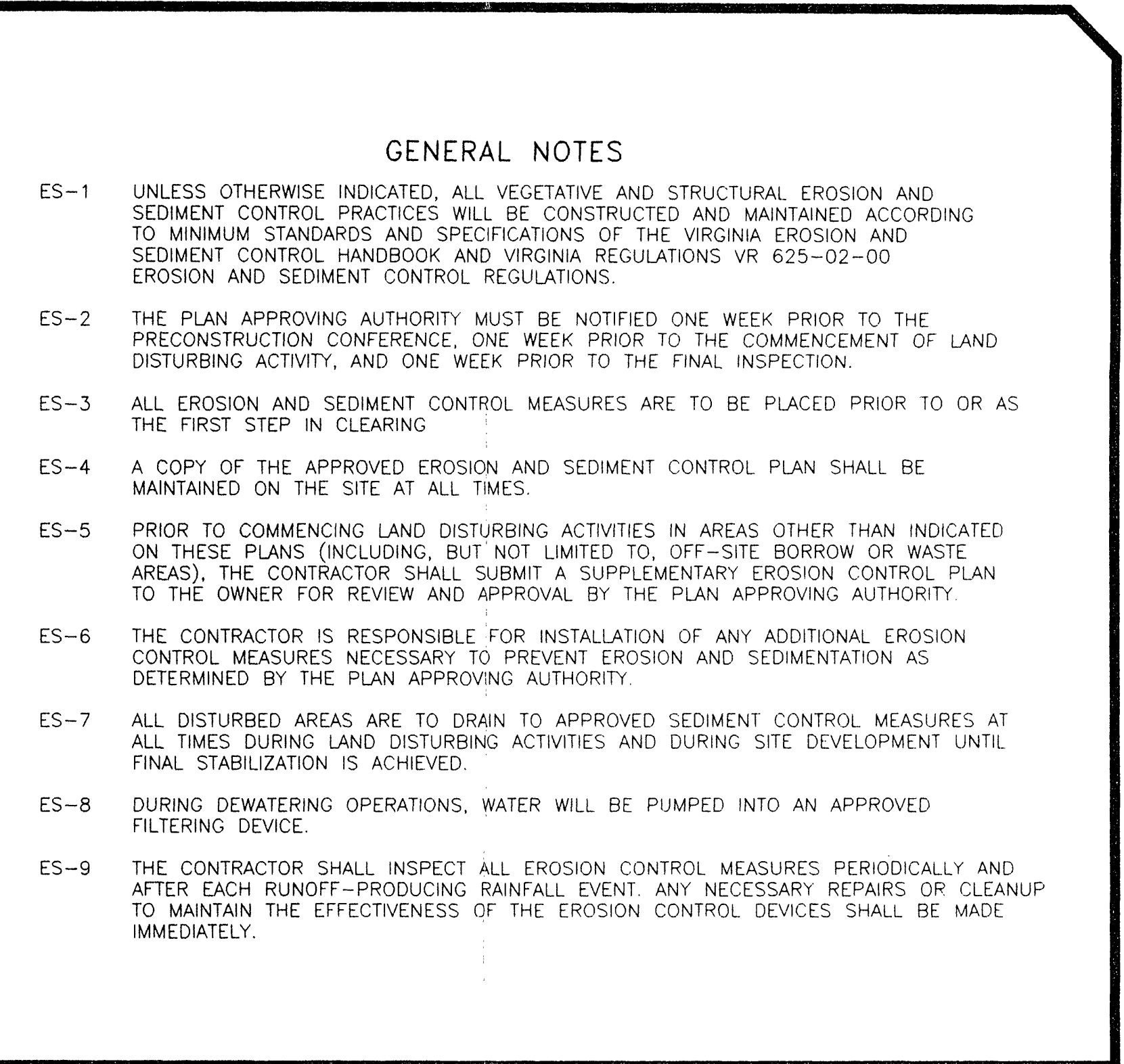
(ST) SEDIMENT TRAP

NOTES

For areas less than 30 acres. For areas greater than 30 acres, A SEDIMENT TRAP is required. Please see Va' ESC manual for design.

GRAVEL CURB INLET SEDIMENT FILTER

(IP)

[illegible]

ALL COSTS GIVEN ARE COMPLETE IN PLACE				
DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
CONSTRUCTION ENTRANCE	EA		\$	\$
SILT FENCE	LF			
INLET PROTECTION	EA			
TEMPORARY DIVERSION DIKE	LF			
TEMPORARY FILL DIVERSION	LF			
SEDIMENT TRAP	EA			
CHECK DAM	EA			
PERMANENT SEEDING	1000 SF	1		30.00
OUTLET PROTECTION	EA			
SEDIMENT BASIN	EA			
LINING UNDER RR	S.Y.	150	4.00	600.00
RIP RAP	TON	150	1275	1275.00
SUB-TOTAL				\$ 1905.00
10% CONTINGENCY				\$ 190.50
TOTAL PROJECT COST				\$ 2095.00

