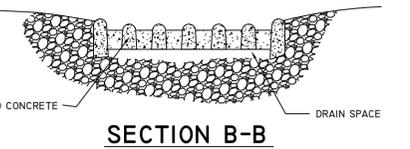
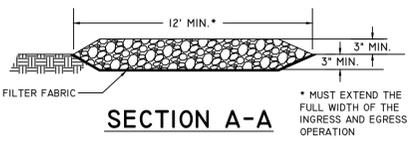
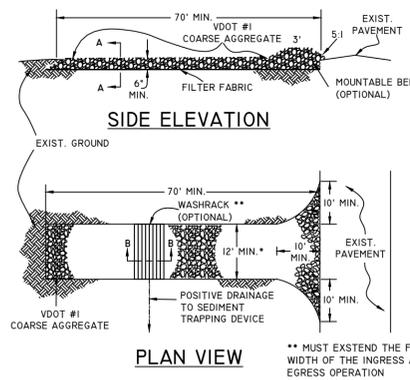


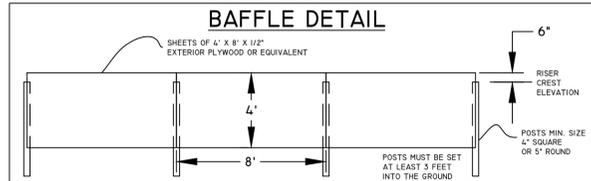
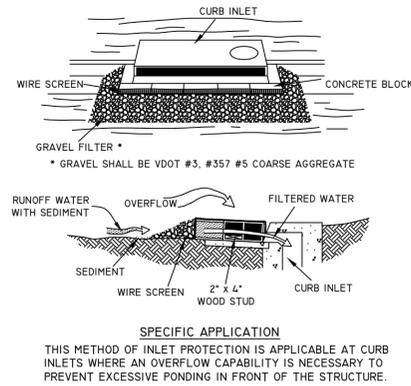
### STONE CONSTRUCTION ENTRANCE

STD. & SPEC. 3.02 - VA. EROSION AND SEDIMENT CONTROL HANDBOOK (1992)



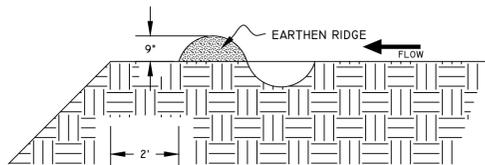
### BLOCK AND GRAVEL CURB INLET SEDIMENT FILTER

STD. & SPEC. 3.07 - VA. EROSION AND SEDIMENT CONTROL HANDBOOK (1992)



### TEMPORARY FILL DIVERSION

STD. & SPEC. 3.10 - VA. EROSION AND SEDIMENT CONTROL HANDBOOK (1992)

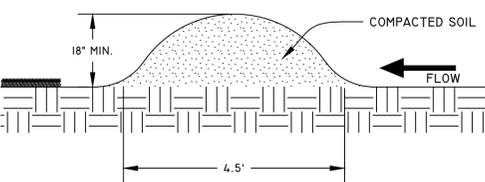


THE DIVERSION SHALL BE AT LEAST 2' INSIDE OF THE TOP EDGE OF FILL

THE SUPPORTING RIDGE SHALL BE CONSTRUCTED WITH A UNIFORM HEIGHT ALONG ITS ENTIRE LENGTH TO PREVENT BREACHING.

### TEMPORARY DIVERSION DIKE

STD. & SPEC. 3.09 - VA. EROSION AND SEDIMENT CONTROL HANDBOOK (1992)

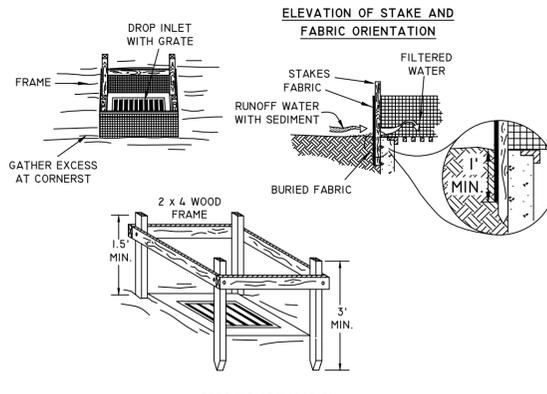


SIDE SLOPES MUST BE 1.5:1 OR FLATTER

TEMPORARY OR PERMANENT SEEDING AND MULCH MUST BE APPLIED IMMEDIATELY UPON CONSTRUCTION

### SILT FENCE DROP INLET PROTECTION

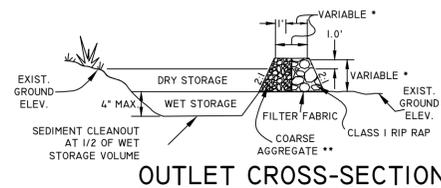
STD. & SPEC. 3.07 - VA. EROSION AND SEDIMENT CONTROL HANDBOOK (1992)



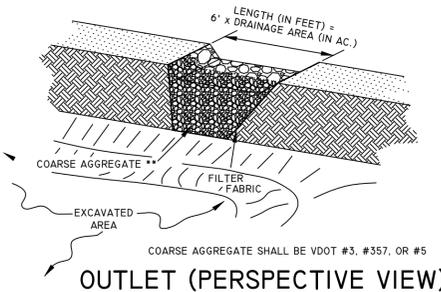
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5%) WHERE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 cfs ARE TYPICAL) THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

### TEMPORARY SEDIMENT TRAP

STD. & SPEC. 3.13 - VA. EROSION AND SEDIMENT CONTROL HANDBOOK (1992)



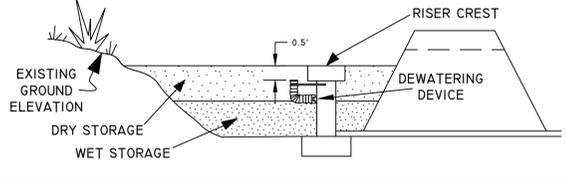
### OUTLET CROSS-SECTION



### OUTLET (PERSPECTIVE VIEW)

### TEMPORARY SEDIMENT BASIN

STD. & SPEC. 3.14 - VA. EROSION AND SEDIMENT CONTROL HANDBOOK (1992)



### CHANNEL PROTECTION COMPLIANCE SUMMARY TABLE

Discharge Point	Conditions within Limits of Analysis	Applicable Channel Protection Criteria									
		Criteria A				Criteria B Project consistent with design of restored system	Criteria C				
		Q <sub>2</sub>	Q <sub>cap</sub>	V <sub>2</sub>	V <sub>allowable</sub>		Q <sub>developed</sub>	RV <sub>developed</sub>	IF	Q <sub>pre-developed</sub>	RV <sub>pre-developed</sub>
<input type="checkbox"/> Manmade <input type="checkbox"/> Restored <input type="checkbox"/> Natural	<input type="checkbox"/> YES										≤
<input type="checkbox"/> Manmade <input type="checkbox"/> Restored <input type="checkbox"/> Natural	<input type="checkbox"/> YES										≤
<input type="checkbox"/> Manmade <input type="checkbox"/> Restored <input type="checkbox"/> Natural	<input type="checkbox"/> YES										≤
<input type="checkbox"/> Manmade <input type="checkbox"/> Restored <input type="checkbox"/> Natural	<input type="checkbox"/> YES										≤
<input type="checkbox"/> Manmade <input type="checkbox"/> Restored <input type="checkbox"/> Natural	<input type="checkbox"/> YES										≤
<input type="checkbox"/> Manmade <input type="checkbox"/> Restored <input type="checkbox"/> Natural	<input type="checkbox"/> YES										≤

### Channel Protection Criteria

- The stormwater conveyance system conveys the post-development peak flow rate from the two-year 24-hour storm event without causing erosion of the system (V<sub>2</sub> must be shown to be non-erosive)
- The development project, in combination with other stormwater runoff, is consistent with the design parameters of the restored stormwater conveyance and the restored stormwater conveyance system is functioning as designed
- The discharge from the development satisfies the Energy Balance requirement  
 $(Q_{developed} \times RV_{developed}) \leq IF \times (Q_{pre-developed} \times RV_{pre-developed})$   
 where:  
 Q<sub>developed</sub> = the peak flow rate of runoff from the developed site  
 RV<sub>developed</sub> = the volume of runoff from the site based on developed conditions  
 IF = an improvement factor (0.8 for sites > 1 acre, 0.9 for sites ≤ 1 acre)  
 Q<sub>pre-developed</sub> = the peak flow rate of runoff from the pre-developed site  
 RV<sub>pre-developed</sub> = the volume of runoff from the site based on pre-developed conditions

### FLOOD PROTECTION COMPLIANCE SUMMARY TABLE

Discharge Point	Conditions within Limits of Analysis	APPLICABLE FLOOD PROTECTION CRITERIA				
		Criteria A		Criteria B		
		Q <sub>10-post</sub>	Q <sub>capacity</sub>	Q <sub>10-post</sub> (Required for Criteria B.1 and B.2)	Q <sub>capacity</sub> (Required for Criteria B.1)	Q <sub>10-pre-developed</sub> (Required for Criteria B.2)
<input type="checkbox"/> No Localized Flooding <input type="checkbox"/> Existing Localized Flooding	<input type="checkbox"/> No Localized Flooding <input type="checkbox"/> Existing Localized Flooding					
<input type="checkbox"/> No Localized Flooding <input type="checkbox"/> Existing Localized Flooding	<input type="checkbox"/> No Localized Flooding <input type="checkbox"/> Existing Localized Flooding					
<input type="checkbox"/> No Localized Flooding <input type="checkbox"/> Existing Localized Flooding	<input type="checkbox"/> No Localized Flooding <input type="checkbox"/> Existing Localized Flooding					
<input type="checkbox"/> No Localized Flooding <input type="checkbox"/> Existing Localized Flooding	<input type="checkbox"/> No Localized Flooding <input type="checkbox"/> Existing Localized Flooding					
<input type="checkbox"/> No Localized Flooding <input type="checkbox"/> Existing Localized Flooding	<input type="checkbox"/> No Localized Flooding <input type="checkbox"/> Existing Localized Flooding					
<input type="checkbox"/> No Localized Flooding <input type="checkbox"/> Existing Localized Flooding	<input type="checkbox"/> No Localized Flooding <input type="checkbox"/> Existing Localized Flooding					

### Flood Protection Criteria

- Where localized flooding does not currently exist, the 10-year 24-hour storm event must be confined to the most restrictive stormwater conveyance system within the limits of analysis.
- Where localized flooding exists within the limits of analysis, the 10-year 24-hour storm event must:
  - be confined within the most restrictive stormwater conveyance system within the limits of analysis (detention or downstream improvements may be provided to meet this criterion), or
  - be released at a rate that is less than the pre-development peak flow rate from the 10-year 24-hour storm event.

### SEDIMENT TRAPS

TRAP #	DRAINAGE AREA (ACRES)	WET STORAGE			DRY STORAGE			OUTLET LENGTH (FEET)	BOTTOM ELEVATION	TOP OF BERM ELEVATION	TOP OF BERM WIDTH	DIMENSIONS (L x W)
		VOLUME REQUIRED (CU. YD.)	VOLUME PROVIDED (CU. YD.)	ELEVATION	VOLUME REQUIRED (CU. YD.)	VOLUME PROVIDED (CU. YD.)	ELEVATION					

### SEDIMENT BASINS

BASIN #	DRAINAGE AREA (ACRES)	WET STORAGE		DRY STORAGE		BOTTOM ELEVATION	RISER CREST ELEVATION	RISER DIAMETER	DEWATERING DEVICE ELEVATION	DEWATERING DEVICE DIAMETER	25-Yr. STORM ELEVATION	EMERGENCY SPILLWAY ELEVATION	ANTI-VORTEX DEVICE DIAMETER	TOP OF DAM ELEVATION	TOP OF DAM WIDTH	BAFFLE			BARREL				
		VOLUME REQUIRED (CU. YD.)	VOLUME PROVIDED (CU. YD.)	VOLUME REQUIRED (CU. YD.)	VOLUME PROVIDED (CU. YD.)											FLOWLENGTH TO WIDTH RATIO	BAFFLE LENGTH	TOP OF BAFFLE	PIPE LENGTH	PIPE DIAMETER	INVERT IN	INVERT OUT	

