

- ASSUME SILT FENCE IS 15' BEYOND TOE OF SLOPE
- ASSUME SLOPE DOES NOT EXCEED 2:1
- ASSUME 18" STORAGE DEPTH BEHIND SILT FENCE
- $(1.5')(1.5') + (1.5')(2')(0.5) = 4.5SF$
- $4.5SF \times 15F = 67.5CF$
- $67.5CF \times (1CY/27CY) = 2.5CY$
- CLEAN OUT WHEN SILT FENCE = $\frac{1}{3}$ FULL

SEDIMENT STORAGE CALCULATION
INLET TRAP BASIN A: SD2-Bg
 REQUIRED: 67 CY/AC
 0.82 AC x 67 CY = 54.9 CY

INLET TRAP (CONIC METHOD)
 PROVIDED: 100.9 CY

DOMI METHOD:

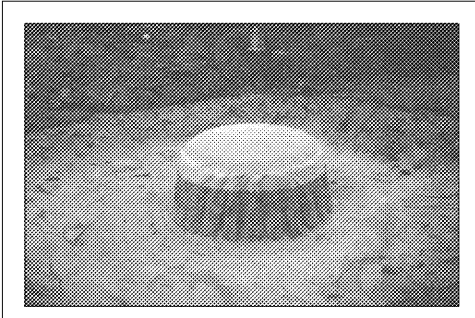


Figure 6-28.7 Equivalent Inlet Sediment Trap

CONSTRUCTION SPECIFICATIONS
Excavated Inlet Sediment Trap
 An excavation may be created around the inlet sediment trap to provide additional sediment storage. The trap shall be sized to provide a minimum storage capacity calculated at the rate of 67 cubic yards per acre of drainage area. A minimum depth of 1.5 feet for sediment storage should be provided. Side slopes shall not be steeper than 2:1.

Sediment traps may be constructed on natural ground surface, on an excavated surface, or on machine compacted fill, provided they have a non-erodible outlet.

BASIN C:
 INLET SEDIMENT TRAP FOR ST-C2

IF THE EXCAVATED INLET SEDIMENT TRAP IS USED, SHOW THE FOLLOWING INFORMATION:

1. DRAINAGE AREA = 0.82 AC
2. REQUIRED SEDIMENT STORAGE = 67 CY/AC * DRAINAGE AREA
 REQUIRED SEDIMENT STORAGE = 67 * 0.82 AC
 REQUIRED SEDIMENT STORAGE = 54.94 CY = 1483 CF
3. ASSUME EXCAVATION DEPTH (MINIMUM OF 1.5 FT.) = 1.5 FT
4. ASSUME SLOPE OF SIDES (SHALL NOT BE STEEPER THAN 2:1) = 2 : 1
5. DETERMINE REQUIRED SURFACE AREA
 $SA_{min} = \text{REQUIRED SEDIMENT STORAGE} / \text{EXCAVATION DEPTH}$
 $SA_{min} = 54.94 \text{ CY} / 1.5 \text{ FT}$
 $SA_{min} = 36.63 \text{ SF}$
6. ASSUME SHAPE OF EXCAVATION AND DETERMINE DIMENSIONS.
 (A RECTANGULAR SHAPE WITH 2:1 LENGTH TO WIDTH RATIO IS RECOMMENDED.)
 SHAPE: RECTANGULAR
 DIMENSIONS: L = 3 FT W = 3 FT

PROJECT NO.:	18090
DATE:	07-19-18
REVISIONS:	
XX/XX/XXXX	SUBMITTER TO
XX	
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CITY OF ROME FLOYD COUNTY JAIL TRAINING CENTER LAND LOT(S) 193, 23rd DISTRICT, 3rd SECTION, CITY OF ROME, FLOYD COUNTY, GEORGIA	
GSWCC NO. 3422 SHEET TITLE:	
SEDIMENT BASIN MAP	
DRAWING NO.:	
C510	

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