NOTE:
1. Clear, grub, and remove all vegetative matter including root mat before constructing Sediment Trap.
2. Remove sediment from Sediment Trap as it accumulates and place as approved by the CO.
3. Maintain a properly functioning sediment trap throughout construction or until disturbed areas contributing to the basin have been paved or seeded and mulched.
4. Do not use sediment traps for drainage areas over 5 acres.
5. Adjust shape of sediment trap to fit site-specific conditions.
6. Furnish geotextile filter type conforming to subsection 714.01(6). See summary tables for class and type.

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NOTES TO THE DESIGNER  
Last Updated: July 2020

General Information

1. **Appropriate Applications.**
   - Sediment traps are temporary containment areas that should be placed before sediment-laden storm water enters a storm drain or water course.

2. **Limitations.**
   - Requires large surface area. Size may be limited by right-of-way.
   - Do not use sediment traps for drainage areas greater than 5 acres.
   - Cannot install in live streams.

3. **Layout Guidance.**
   - Refer to drawing for layout guidance.
   - Design a sediment trap to maximize the surface area for infiltration and sediment settling.
   - In the siting and design phase, take care to situate sediment traps for easy access by maintenance crews. This allows for periodic inspection and maintenance.
   - The volume of a natural sediment trap can be approximated using the following equation (Smolen et al., 1988):

   $$\text{Volume (ft}^3\text{)} = 0.4 \times \text{surface area (ft}^2\text{)} \times \text{maximum pool depth (ft)}$$

   - The volume of the sediment trap needs to be sufficient to hold the runoff from a 2 year- 24 hour storm for the area being drained. Include the calculations in the SWPPP.

Applicable SCRs
None

Typical Pay Item Used
- 15706-0400 Soil erosion control, sediment trap [EA]

Updates
January 2011
- Updated FLH Standard drawing by removing sediment basin drawing and other various minor edits

August 2014
- Changed drawing from Detail C157-52 to Special 157-A

June 2020
- Updated geotextile reference

Designer Notes for CFLHD Drawing 157-52