

### Dust Control on Disturbed Areas

Du



**DEFINITION**  
Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

**PURPOSE**  
• To prevent surface and air movement of dust from exposed soil surfaces.  
• To reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

**CONDITIONS**  
This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

**METHOD AND MATERIALS**

**A. Temporary Methods**

**Mulches.** See standard Ds1 - Disturbed Area Stabilization (With Mulching Only). Synthetic resins may be used instead of asphalt to bind mulch material. Refer to specification Tac - Tackifiers. Resins should be used according to manufacturer's recommendations.

**Vegetative Cover.** See specification Ds2 - Disturbed Area Stabilization (With Temporary Seeding).

**Spray-on Adhesives.** These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to specification Tac - Tackifiers.

**Tillage.** This practice is designed to roughen and bring clods to the surface. It is an emergency

measure that should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect.

**Irrigation.** This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

**Barriers.** Solid board fences, snowfences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

**Calcium Chloride.** Apply at rate that will keep surface moist. May need retreatment.

**B. Permanent Methods**

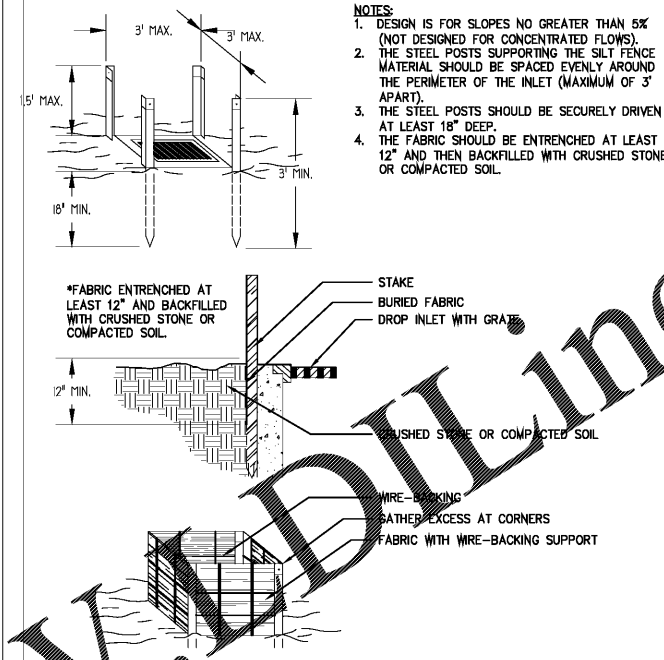
**Permanent Vegetation.** See specification Ds3 - Disturbed Area Stabilization (With Permanent Vegetation). Existing trees and large shrubs may afford valuable protection if left in place.

**Toppingsoil.** This entails covering the surface with less erosive soil material. See specification Tp - Toppingsoil.

**Stone.** Cover surface with crushed stone or coarse gravel. See specification Cr - Construction Road Stabilization.

### FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

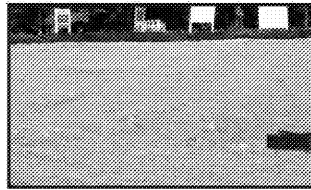
#### STEEL FRAME AND SILT FENCE INSTALLATION



606-1 INLET SEDIMENT TRAP-FILTER

### Disturbed Area Stabilization (With Mulching Only)

Ds1



**DEFINITION**  
Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

**PURPOSE**  
• To reduce runoff and erosion  
• To conserve moisture  
• To prevent surface compaction or crusting  
• To control undesirable vegetation  
• To modify soil temperature  
• To increase biological activity in the soil

**REQUIREMENT FOR REGULATORY COMPLIANCE**

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored and have a continuous 90% cover or greater of the soil surface.

Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months.

If any area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed. Refer to Ds2 - Dis-

turbed Area Stabilization (With Temporary Seeding), Ds3 - Disturbed Area Stabilization (With Permanent Seeding), and Ds4 - Disturbed Area Stabilization (With Sodding).

**SPECIFICATIONS**

**Mulching Without Seeding**  
This standard applies to graded or cleared areas where seedlings may not have a suitable growing season to produce an erosion-retardant cover, but can be stabilized with a mulch cover.

**Site Preparation**

- Grade to permit the use of equipment for applying and anchoring mulch.
- Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
- Loosen compact soil to a minimum depth of 3 inches.

**Mulching Materials**

Select one of the following materials and apply at the depth indicated:

- Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.
- Wood waste chips, mulch, or chips shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should not be used. It should be chipped, and mulch chips shall be applied at a depth of 2 to 3 inches to greatly reduce erosion control costs.
- Polyethylene film shall be secured over berms or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

**Applying Mulch**

When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.

- Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.

- If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.
- Apply polyethylene film on exposed areas.

**Anchoring Mulch**

- Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "20" disk." Disk may be smooth or serrated and shall be 20 inches or more in diameter and 4 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil being mulched. Straw or hay mulch shall be anchored immediately after application.

Straw or hay mulch spread with special blower-type equipment may be anchored. Tackifiers, binders and hydraulic mulch with tackifier specifically designed for tackling straw can be substituted for emulsified asphalt. Please refer to specification Tac-Tackifiers. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.

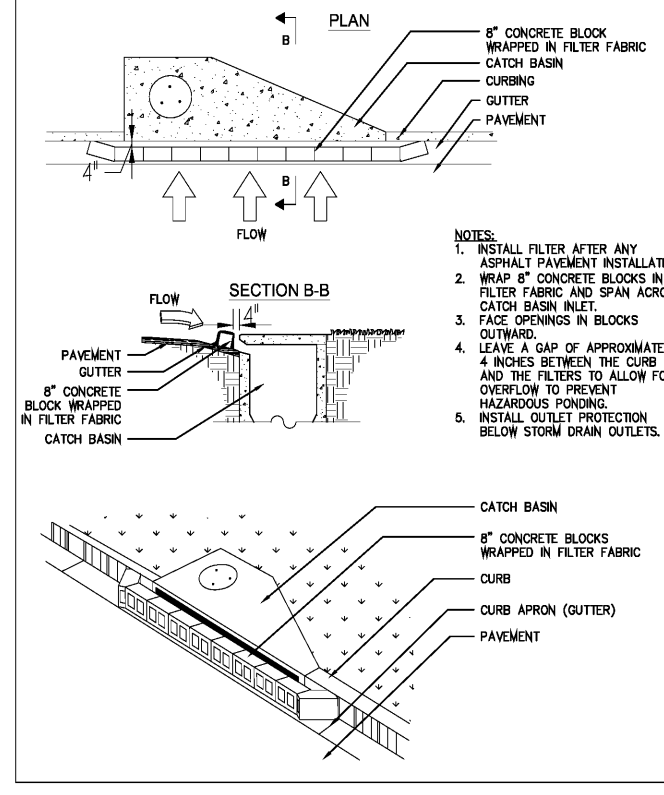
- Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.

- Polyethylene film shall be anchored at the top as well as incrementally as necessary.

6-28

GSWCC 2016 E2804

### CURB INLET FILTER "PIGS IN BLANKET"



642-P INLET SEDIMENT TRAP-CURB

Du DUST CONTROL ON DISTURBED AREA

Ds1 DISTURBED AREA STABILIZATION (MULCH)



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**REVISION HISTORY**

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1	ISSUED FOR PERMITS
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PROJ #	18060
ENGR NAME	BRADY COLDRING
ISSUE DATE	11/08/2019
PROJ MGR	EF

**ESPC DETAILS II**

**C06.5**  
SHEET NUMBER

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