

Stabilized Staging Area (SSA)

SM-6

Description

A stabilized staging area is a clearly designated area where construction equipment and vehicles, stockpiles, waste bins, and other construction-related materials are stored. The contractor office trailer may also be located in this area. Depending on the size of the construction site, more than one staging area may be necessary.



Photograph SSA-1. Example of a staging area with a gravel surface to prevent tracking and reduce runoff. From center of Douglas County.

Appropriate Uses

Most construction sites will require a staging area, which should be clearly designated in SWMP drawings. The layout of the staging area may vary depending on the type of construction activity. Staging areas located in roadways due to space constraints require special measures to avoid materials being washed into storm inlets.

Design and Installation

Stabilized staging areas should be completed prior to other construction activities beginning on the site. Major components of a stabilized staging area include:

- Appropriate space to contain storage and provide for loading/unloading operations, as well as parking if necessary.
- A stabilized surface, either paved or covered, with 3-inch diameter aggregate or larger.
- Perimeter controls such as silt fence, sediment control logs, or other measures.
- Construction fencing to prevent unauthorized access to construction materials.
- Provisions for Good Housekeeping practices related to materials storage and disposal, as described in the Good Housekeeping BMP Fact Sheet.
- A stabilized construction entrance/exit, as described in the Vehicle Tracking Control BMP Fact Sheet, to accommodate traffic associated with material delivery and waste disposal vehicles.

Over-sizing the stabilized staging area may result in disturbance of existing vegetation in excess of that required for the project. This increases costs, as well as requirements for long-term stabilization following the construction period. When designing the stabilized staging area, minimize the area of disturbance to the extent practical.

Stabilized Staging Area	
Erosion Control	Yes
Sediment Control	Moderate
Silt/Material	Yes

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SSA-1

SM-6 Stabilized Staging Area (SSA)

Maintaining Long-Term Stabilization Requirements

- Utilize off-site parking and restrict vehicle access to the site.
- Use construction mats in lieu of rock when staging is provided in an area that will not be disturbed otherwise.
- Consider use of a bermed contained area for materials and equipment that do not require a stabilized surface.
- Consider phasing of staging areas to avoid disturbance in an area that will not be otherwise disturbed.

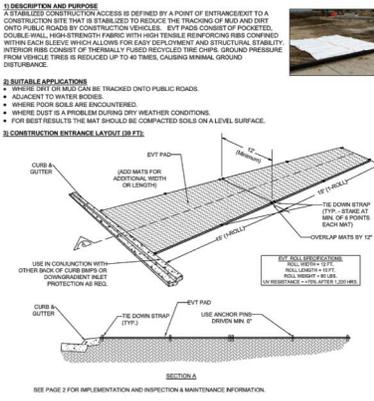
See Detail SSA-1 for a typical stabilized staging area and SSA-2 for a stabilized staging area when materials staging in roadways is required.

Maintenance and Removal

Maintenance of stabilized staging areas includes maintaining a stable surface cover of gravel, repairing perimeter controls, and following good housekeeping practices. When construction is complete, debris, unused stockpiles and materials should be recycled or properly disposed. In some cases, this will require disposal of contaminated soil from equipment leaks in an appropriate landfill. Staging areas should then be permanently stabilized with vegetation or other surface planned for the development.

ECO VEHICLE TRACKING PAD (EVT)

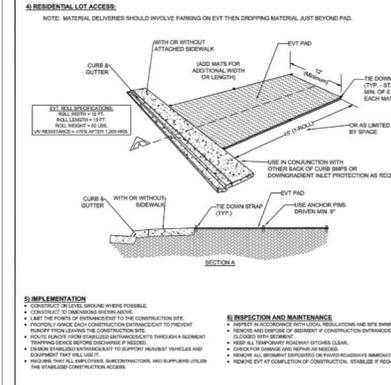
EVT
PAGE 1 OF 2



PAGE 1 OF 2

ECO VEHICLE TRACKING PAD (EVT)

EVT
PAGE 2 OF 2



PAGE 2 OF 2

FODS TRACK MODEL # 1100 APPLICATION

The FODS Composite trackout control system is designed to be used on a temporary construction entrance which provides site access while minimizing sediment leaving the site. The top surface of the FODS mat is a geometric pattern formed in the shape of granules. The mats are unidirectional and are meant to slow the staggered granules in the direction of travel. Individual mats are connected together with hardware to form various configurations to fit your jobsite.

FEATURES

- 8x-Modular
- Increased Efficiency
- Durable Site Trackout
- 1/2" Drain
- Highly Visible
- Crush Rating of 20,000 lbs per sq yd
- 3 year manufacturer warranty
- Composite and Composite
- US Patent # 8,151,087 B2
- Extreme Durability
- Excavation not required
- Chemical Resistant
- Road Safe
- Easy installation for
- Transport from site site
- Mat Size 37" x 6' x 2" x 3/4"
- 800' (200' per roll) height
- 3 year manufacturer warranty
- Composite and Composite
- US Patent # 8,151,087 B2
- Alternative BMP

FODS ANCHORING SYSTEMS

- Form Blocks (2" x 2")
- Cable Earth Anchor
- All Thread Earth Anchor
- Concrete Shear Anchor (optional)
- Suitable anchor for substrate

WARNINGS

- Caution to be used when installing mats with metal tracked equipment.
- Equipment with aggressive metal tracks should not cross mats.
- Do not drag metal equipment across mats.
- Do not use mats for loading.

FODS LLC | The Mud Stops Here | GetFods.com | 1-844-200-3637

SUITABLE INSTALLATION SUBSTRATE

- Un-Excavated Soil
- Excavated Soil (24"-36" x 6")
- Asphalt
- Concrete
- Gravel
- Any existing eroded substrate

FODS Trackout Control System should be installed near the site exit point, as close to the location where vehicles enter the construction site as possible. FODS mats should not be installed at a low angle to the site where water will pool.

CLEANING / MAINTENANCE

- Mats should be cleaned once 25' of sediment has built up on the face of track.
- Silt-alter brines attachment (optional) suitable for use
- FODS Street
- Street Sweeper (optional) suitable for use
- Pressure Washer (must have ability to contain silt)
- Water Truck (must have ability to contain silt)

*****Before using earth anchors, call 811 for locates to avoid underground utilities*****

811
Know what's below. Call before you dig.

FODS TRACKOUT CONTROL SYSTEM

THE PURPOSE AND DESIGN OF THE FODS TRACKOUT CONTROL SYSTEM IS TO PREVENT SEDIMENT FROM BEING TRACKED OFF OF A CONSTRUCTION SITE BY A MOTOR VEHICLE. THE FODS TRACKOUT CONTROL SYSTEM IS A TEMPORARY CONSTRUCTION ENTRANCE WHICH PROVIDES SITE ACCESS WHILE MINIMIZING SEDIMENT LEAVING THE SITE. THE TOP SURFACE OF THE FODS MAT IS A GEOMETRIC PATTERN FORMED IN THE SHAPE OF GRANULES. THE MATS ARE UNIDIRECTIONAL AND ARE MEANT TO SLOW THE STAGGERED GRANULES IN THE DIRECTION OF TRAVEL. INDIVIDUAL MATS ARE CONNECTED TOGETHER WITH HARDWARE TO FORM VARIOUS CONFIGURATIONS TO FIT YOUR JOBSITE.

INSTALLATION

1. THE SITE WHERE THE FODS TRACKOUT CONTROL SYSTEM IS TO BE INSTALLED SHOULD BE PREPARED BY EXCAVATING TO THE SUBSTRATE AND BACKFILLING TO THE MATS. THE MATS SHOULD BE INSTALLED ON A SUBSTRATE THAT IS UNIDIRECTIONAL AND MEANT TO SLOW THE STAGGERED GRANULES IN THE DIRECTION OF TRAVEL. INDIVIDUAL MATS ARE CONNECTED TOGETHER WITH HARDWARE TO FORM VARIOUS CONFIGURATIONS TO FIT YOUR JOBSITE.

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Kimley-Horn & Associates, Inc.
2025 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue, Suite 900
Colorado Springs, Colorado 80903 (719) 463-0180

DESIGNED BY: KRK
DRAWN BY: RES
CHECKED BY: KRK
DATE: 8/31/23

CSU GAS - MESA TO MANITOU
PHASES 5.2 & 5.3
GEC PLANS
DETAILS

PROJECT NO. 06760121
SHEET 17

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SECTION 1: CONSTRUCTION

Filtrex® Sediment/Perimeter Control (StiSeXX®)

PURPOSE DESCRIPTION

Filtrex® StiSeXX™ is a three-dimensional tubular sediment control and perimeter control device typically used for sediment/perimeter control of construction activities...



Installation Method - Perimeter Control

Installation Method - Perimeter Control > 4:1, around inlets, and to other disturbed areas of construction sites requiring sediment control...

It is possible to drive over perimeter control during construction (although not recommended)...

- Site perimeter
Above and below disturbed areas subject to about runoff, erosion and sediment.
Above and below exposed and erodible slopes...

Perimeter control can be applied to areas of high storm runoff and erosion, on slopes up to a 1:1 grade...

difficult soil conditions such as frozen or wet ground, and dense and compacted soils...

- Perimeter control is only implemented as a treatment in a general treatment table approach to erosion and sediment control.
Organic matter and human excreta in FiltrexMedia™ (filler material)...

- Perimeter control is available in up to 200 Ft (61m) continuous lengths in precast walk sections.
Perimeter control is available in up to 200 Ft (61m) continuous lengths in precast walk sections...

Perimeter control can be used on slopes to about 4:1, around inlets, and to other disturbed areas of construction sites requiring sediment control...

Table with 4 columns: Installation Difficulty, Durability, Sediment Control, Subtle Perimeter Control, Runoff Flow Control, Life Cycle Cost. Includes a 'Filtrex' logo.

the erosive potential of sediment control. The perimeter control is less likely to obstruct...

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FILTREX® CHARACTERISTICS

Specifications for perimeter control use only Filtrex Certified FiltrexMedia which is a coarse granulated material that is specifically designed for removal of sediment and silt...

Performance Performance testing and analysis on perimeter control has been extensive. Results from testing and research projects conducted on perimeter control include hydraulic flow-through rates...

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1.1 Filtrex® Sediment/Perimeter Control

product and control materials are used in sufficient, performance control is required for producer and control (control should be used in the same set of environmental and operational conditions)...

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For most standard perimeter control applications, a 12 in (305mm) diameter perimeter control can replace a 24 in (610 mm) diameter silt fence. See Table 1.3 and 1.4 and Figure 1.2 for standard design specifications for maximum allowable slope lengths...

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1.1 Filtrex® Sediment/Perimeter Control

directly in the device, and may be exposed to 5 ft (1.5m) splash and downfalls from the device, for added performance. Vegetation on and around the perimeter control will assist in slowing runoff...

Sharp Spine Drainage Area Maximum drainage area is, and slope spacing between perimeter control is dependent on rainfall intensity and duration used for the Filtrex Design Tool...

Leak Control Perimeter control should be placed on level ground to ensure flow and reducing runoff velocity. Do not construct perimeter control in concrete runoff or channel ways. Short cuts or water should be perpendicular to the perimeter control at impact and stability are compromised. Placing perimeter control on individual and will reduce the potential for undermining.

Runoff and Sediment Accumulation Where possible, perimeter control should be placed at a 1:1 (30:30) or greater distance away from the toe of the slope to allow for proper runoff accumulation for sediment deposition and to allow for maximum sediment storage capacity behind the device. If a 1:1 (30:30) distance is not available, then a construction restriction, a silt fence perimeter control may be installed to increase pooling and sediment accumulation capacity. Steeper slopes allow less sediment storage behind the perimeter control and may require larger perimeter control or shorter slope lengths.

End Area Design End areas prevent water flowing around the ends of perimeter control. On the ends of the perimeter control may be constructed pointing up slope or the ends may be at a higher elevation. A minimum of 10 Baseft (3.0m) per end shall be placed at a 20 degree angle is recommended.

Vegetated Perimeter Control For permanent area perimeter control can be direct seeded to allow vegetation established.

Installation 1. Perimeter control shall be placed on level ground to ensure flow and reducing runoff velocity. Do not construct perimeter control in concrete runoff or channel ways. Short cuts or water should be perpendicular to the perimeter control at impact and stability are compromised. Placing perimeter control on individual and will reduce the potential for undermining.

Installation 2. Perimeter control shall be placed on level ground to ensure flow and reducing runoff velocity. Do not construct perimeter control in concrete runoff or channel ways. Short cuts or water should be perpendicular to the perimeter control at impact and stability are compromised. Placing perimeter control on individual and will reduce the potential for undermining.

Installation 3. Perimeter control shall be placed on level ground to ensure flow and reducing runoff velocity. Do not construct perimeter control in concrete runoff or channel ways. Short cuts or water should be perpendicular to the perimeter control at impact and stability are compromised. Placing perimeter control on individual and will reduce the potential for undermining.

1.1 Filtrex® Sediment/Perimeter Control

in challenging conditions (i.e., 2:1 slope), a second perimeter control shall be constructed at the top of the slope, or the slope may be increased. Filtrex Media height in the field should be at least 7" diameter Stone - 4" high; 12" diameter Stone - 6" high; 17" diameter Stone - 8" high; 18" diameter Stone - 14" high; 24" diameter Stone - 17" high.

Staking Spacing of the device shall be 12 ft (3.66m), and in (30:30) for 2:1 (60:60) slopes. In the event staking is not possible, a minimum perimeter control shall be installed on a permanent, heavy concrete blocks shall be used behind the perimeter control to help stabilize during wind/drainage events.

Low water courses may be backfilled along the up slope side of the perimeter control. Filling the embankment between the soil surface and the device, improving filtration and sediment retention.

Perimeter control is not to be used in permanent flow or part of the natural landscape. Engineer will specify end requirements. Perimeter control is not to be used in permanent, open, or intermittent streams.

No design drawing schematic for correct installation (Figure 1.3).

Inspection Inspection should be conducted within 24 hrs of a storm event or as designated within the specification. Inspections should be conducted by the project engineer or other qualified personnel. Inspections should be conducted by the project engineer or other qualified personnel. Inspections should be conducted by the project engineer or other qualified personnel.

Maintenance 1. The Contractor shall maintain the perimeter control in a functional condition at all times and it shall be routinely inspected. 2. If the perimeter control has been damaged, it shall be replaced, or replaced if beyond repair.

Close Up of Sediment Control

Close Up of Sediment Control

Close Up of Sediment Control

1.1 Filtrex® Sediment/Perimeter Control

10 inch (254 mm) diameter silt fence. See Table 1.3 and 1.4 and Figure 1.2 for standard design specifications for maximum allowable slope lengths. Note: In some low flow conditions, a 24 in (610mm) diameter perimeter control may replace a 12 in (305mm) diameter perimeter control. All perimeter control shall be placed on level ground to ensure flow and reducing runoff velocity. Do not construct perimeter control in concrete runoff or channel ways. Short cuts or water should be perpendicular to the perimeter control at impact and stability are compromised. Placing perimeter control on individual and will reduce the potential for undermining.

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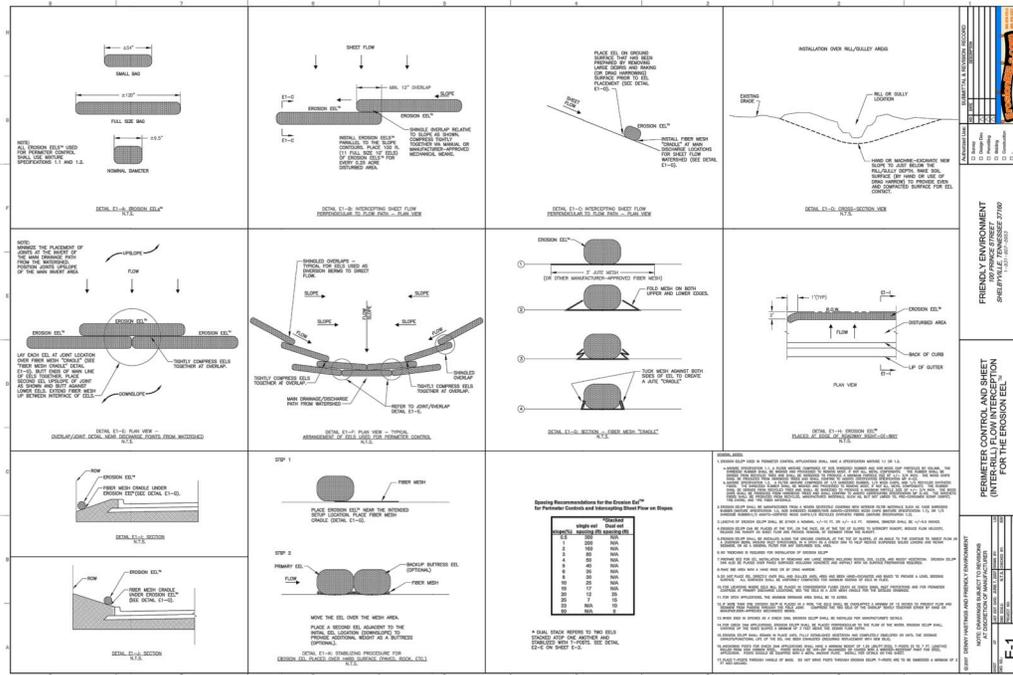
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Special Specification

Erosion Eels™

1. Description. Furnish, install, maintain, and remove Erosion Eels™ as shown on plans or as directed.

2. Materials.

1. Core Material. Erosion Eels™ shall consist of core, internal filter materials comprised of one of two mixtures:

- I. Mixture Specification 1.0.** A filter mixture comprised of 100% shredded rubber that has been washed and processed to remove most, if not all, metal components. The material shall be derived from recycled tires and shall be shredded to produce a maximum particle size of +/- 3/4 inch.
- II. Mixture Specification 2.0.** A filter mixture comprised of 100% shredded rubber that has been washed and processed to remove most, if not all, metal components. The material shall be derived from recycled tires and shall be shredded to produce a maximum particle size of +/- 2-inches.

2. Containment Material. The containment material for the filter core particles shall be a woven, polypropylene geotextile with UV-stabilizers and inert to biological decay and chemically resistant to naturally occurring chemicals, alkalis, and acids. Minimum fabric permeability shall be equal to or greater than 0.05 cm/sec per ASTM D 4491. Minimum strength retained relative to UV exposure shall be 70% when tested per ASTM D 4355 for 500 hours.

3. Size. Erosion Eels™ shall be produced with a nominal diameter of +/-9.5 inches and +/-20 inches and standard nominal lengths of +/-4.5 feet and +/-10 feet.

3. Construction. Install Erosion Eels™ near the downstream perimeter of a disturbed area to intercept sediment from sheet flow. Incorporate the Erosion Eels™ into the erosion control measures used to the control sediment on construction sites. Install, align, and locate the Erosion Eels™ as specified below, as shown on the plans, as direction.

A. Stabilizing/Securing. Secure Erosion Eels™ in a method adequate to prevent displacement as a result of normal rain events and such that flow is not allowed under the bags.

B. Maintenance. Inspect and maintain the Erosion Eels™ in good condition. Maintain the integrity of the control, including keeping the bags free of accumulated silt, debris, etc., until permanent erosion control features are in place, or the disturbed area has been adequately stabilized. Stabilize the areas damaged by the removal process using appropriate methods as approved. Repair or replace damaged Erosion Eels™ as required and as directed. Temporarily remove and replace Erosion Eels™ as required to facilitate work. Remove sediment and debris when accumulation affects the performance of the devices, after a rain, and when directed. Dispose of sediment and debris at an approved site in a manner that will not contribute to additional siltation.

C. Removal. Remove and reuse Erosion Eels™ when directed.

4. Measurement. This item will be measured by the linear foot along the centerline of the top of the control bags.

5. Payment. The work performed and materials furnished in accordance with this item and measured as provided under "Measurement" will be paid for a the unit price bid for "Erosion Eels™" of the size specified. This price is full compensation for furnishing, placing, maintaining, temporarily removing and replacing as required to facilitate construction operations, and removing of the bags and for all other materials, labor, tools, equipment, and incidentals.

End-of Section

Note: Specifications are subject to revisions at the discretion of the Manufacturer.