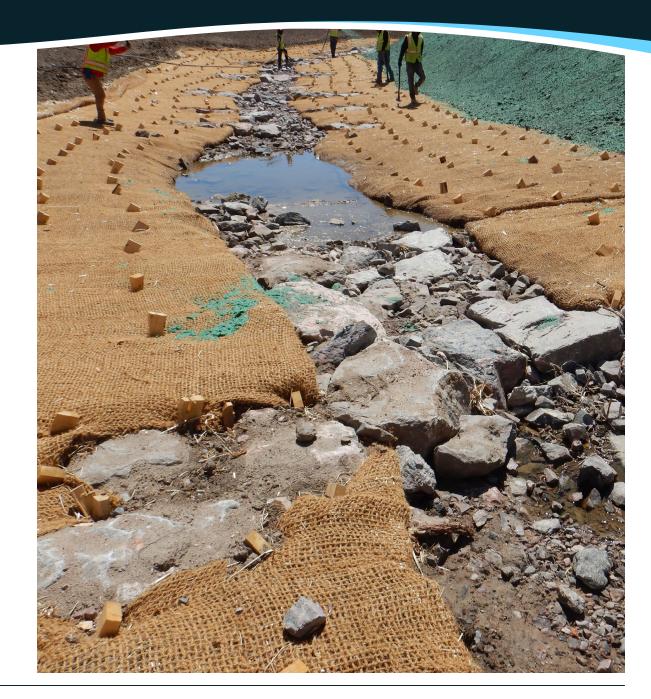
Erosion Control Blanket Construction Guidance Checklist





ECB Introduction

Erosion Control Blanket (ECB) is a construction material that provides temporary cover and support for establishing vegetation on bare soil. ECB holds topsoil and seed (typically grass) in place to minimize erosion during germination of seed.

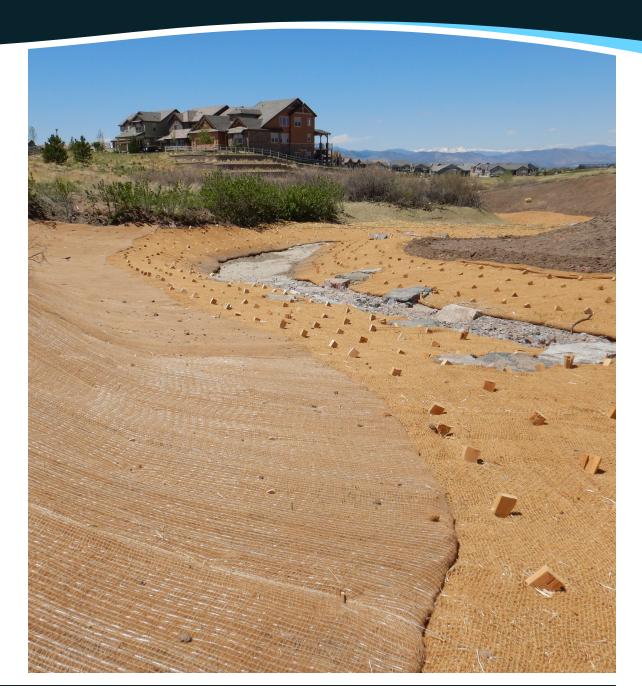


ECB Introduction

- ECB for District projects is intended to provide temporary erosion control during vegetation establishment.
- ECB materials should be biodegradable and consist of coconut fiber, straw and other organic twine. Outside netting should consist of biodegradable natural organic jute materials. Plastic netting is not allowed.
- ECB is made with varying thicknesses, density, and strength depending on the application.
- Heavier, denser blankets are used near flowing water along channels and streams. Lighter blankets are used on steep slopes (typically > 4H:1V) where there is a potential for rill erosion from rain events.
- ECB is held down with wooden stakes of different sizes.

Step 1:

Verify that the blanket material matches what is specified and does not contain any plastic netting.



Coir mat and coconut blanket are the two most common types of ECB used on drainageway projects.





Here are some photos of a straw blanket & straw coconut blanket.





Step 2:

- Verify that the length and type of stakes match specifications.
- Stakes should be wood wedge stakes or wood ecostakes. Metal staples are NOT allowed.







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Step 3:

- Verify that topsoil is smooth prior to blanket installation.
- Topsoil should be raked smooth when it is dry; muddy and clumped soil is not acceptable. Make sure mud clods and rocks are removed so that the blanket lies flat on the surface.
- Confirm that seed, amendments and any fertilizer required are installed beneath the blanket prior to installation.
- Hand shaken straw mulch is typically specified under coir mat because it has more open area. Confirm that the straw mulch is spread evenly prior to installation of coir mat.

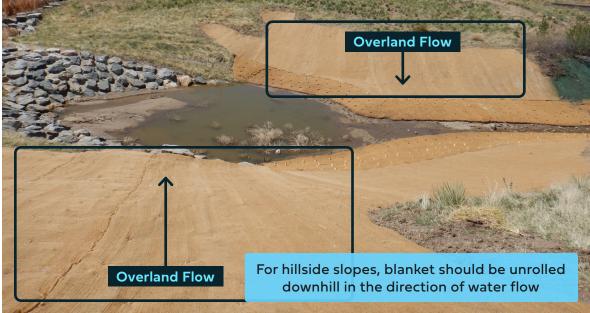




Step 3 (Continued):

Check to make sure blanket is placed on the soil in the direction shown on the plans or as recommended by the manufacturer (see photos). Verify that blankets are placed smoothly but loosely on soil surface.





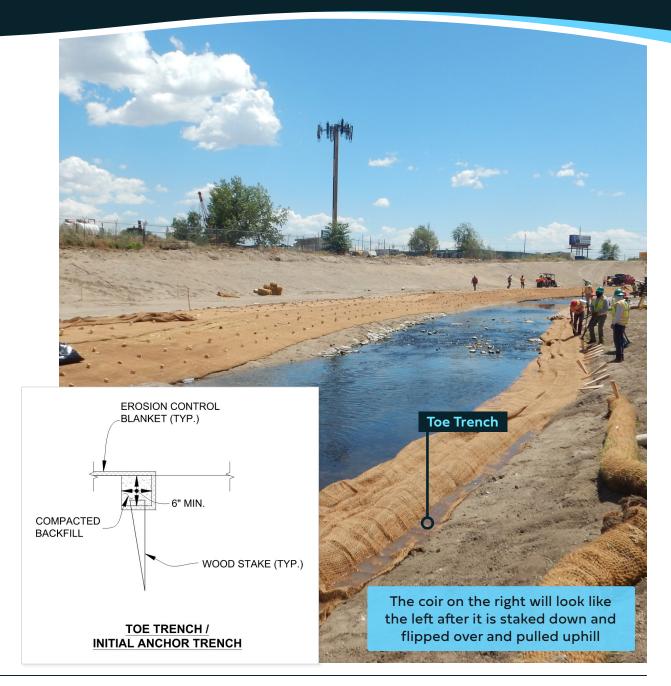
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Step 4:

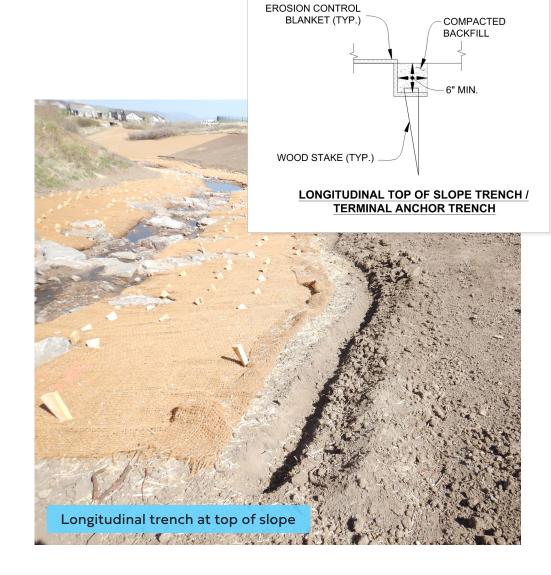
Blanket shall be trenched according to the Drawings and Specifications.

- Verify that all outside edges of blanket are buried and anchored in trenches.
- Most ECB along channels starts with a longitudinal toe trench at the bottom of the slope. The blanket is staked down and rolled over the trench back uphill like a burrito.
- Make sure initial anchor trenches are used at the upstream end of all installations.



Step 4 (Continued):

- Verify that longitudinal trenches are installed at the top of slopes and terminal anchor trenches are installed at the downstream end of all installations.
- Verify that abutting blankets are spliced at ends, with the upstream blanket placed over the downstream blanket with an overlap of 12-inches (any frayed edges should be folded under) and staked at spacing specified for overlaps. Likewise, confirm that adjacent blanket rolls are overlapped 12-inches (shingled), as shown on the next page.
- Confirm that trenches are backfilled with topsoil and that backfill is compacted firmly and seeded.



Here is a photo and detail of proper overlapping of ECB. Note that the upstream blanket is shingled over the downstream blanket by 12".



Step 5:

Verify that blanket is staked according to the details shown on the Drawings.

- Confirm that stakes are installed at spacing specified.
- Confirm that stakes are pounded into the soil so that only about 1" is sticking about the ground surface to reduce trip hazards.



Confirm that there is no tenting of blanket or frayed edges.



Frayed blanket

Finished Installation:

After staking is complete, blanket should be smooth, tight, in close contact with soil surface and without tenting.



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