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INLET PROTECTION
SOIL APPLICATIONS

INLET PROTECTION
PAVEMENT APPLICATIONS

NOTES:
1. Fiber roll may be substituted for filter sock.
2. Filter sock shall be secured to prevent movement and undercutting as shown or in accordance with the manufacturer’s instructions. See Standard Drawing E 205-TECD-10 for securing methods.
3. Inlet protection shall be inspected, at a minimum once every seven days and after each storm event. Sediment shall be removed when 1/3 of the filter sock depth has been filled or as directed.
4. Sediment and gravel deposited on roadways shall be removed once identified after each storm event.
5. Inlet protection shall be removed after the surrounding area becomes stable.
6. Inlet protection shall be used within a lane or shoulder only when closed to traffic. Inlet protection shall not cause water to encroach upon a lane open to traffic.
NOTES:

1. \[ H = h + 0.25, \text{ ft} \]

2. Weight of coarse aggregate #2, Tons:
\[ (6.28/27)(0.67 + 2.5H)(1 + 3H + \frac{1}{2} \text{ inlet width})(0.6) \]

3. Weight of coarse aggregate #8, Tons:
\[ (6.28/27)(H)(1 + 4H + \frac{1}{2} \text{ inlet width})(0.6) \]
1. Frame opening size to match inlet opening.

2. Geotextile bag shall be fabricated from a piece of geotextile 2 times the opening size pushed through the opening to form an overflow opening. Secure by nails.

3. Frame with bag to be placed over inlet opening.

4. Bag frame shall be secured in place by weight of inlet grate. Grate may be rotated 45 degrees to the bag's frame.
**NOTES:**

1. Curb inlet protection shall be used within a lane or shoulder only when closed to traffic. Curb inlet protection shall not cause water to encroach upon a lane open to traffic.

2. May be used in conjunction with drain inlet protection as a best management practice (BMP) in combination with bag or drop inlet protection inserts.

3. Inlet protection shall be used within a lane or shoulder only when closed to traffic. Inlet protection shall not cause water to encroach upon a lane open to traffic.
NOTE:

1 Riprap check dams shall be spaced such that the top of the downstream check dam is at the same elevations as the toe of the adjacent upstream check dam.
1. Fiber roll may be substituted for filter sock.
2. Check dams shall be placed perpendicular to the flow of water.
3. Check dam ends shall be positioned as shown such that storm water flows over the weir low point and does not flow around the ends.
4. Check dams shall remain in place until all upstream areas become stable.
5. Check dams shall be spaced such that the top of the downstream check dam is at the same elevation as the toe of the adjacent upstream check dam.
6. Filter sock shall be secured as shown or in accordance with the manufacturer’s instructions.
7. Stake angle and length shall be sufficient to wedge filter sock to the ground to prevent movement and undercutting.

NOTES:

INDIANA DEPARTMENT OF TRANSPORTATION
TEMPORARY CHECK DAM, TRAVERSABLE, LOW PROFILE
SEPTEMBER 2019
STANDARD DRAWING NO. E 205-TECD-07

DESIGN STANDARDS ENGINEER DATE

CHIEF ENGINEER DATE
1. Fiber roll may be substituted for filter sock.
2. Check dams shall be placed perpendicular to the flow of water.
3. Check dam ends shall be positioned as shown such that storm water flows over the weir low point and does not flow around the ends.
4. Check dams shall remain in place until all upstream areas become stable.
5. Check dams shall be spaced such that the top of the downstream check dam is at the same elevation as the toe of the adjacent upstream check dam.
6. Filter sock shall be secured as shown or in accordance with the manufacturer’s instructions.
7. Stake length shall be sufficient to wedge filter sock to the ground to prevent movement and undercutting.
8. When undercutting is identified, compacted #5 or #8 stone shall be placed as shown.

NOTES:

TRAVERSABLE CHECK DAM

PLAN VIEW

TRAVERSABLE CHECK DAM

ELEVATION

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY CHECK DAM, TRAVERSABLE

SEPTEMBER 2019

STANDARD DRAWING NO. E 205-TECD-08
NOTES:

1. Slope should be 3:1 maximum on the near side with respect to the direction of traffic while the far side slope may be 2:1 maximum.

2. This area may be excavated below proposed ditch grade to achieve sediment trap capacity. Area shall not be excavated below the bottom elevation of sediment trap riprap. Over-excavation does not count toward trap capacity of 2-year, 24-hour storm event.

3. Weir width equals ditch bottom width, minimum 2 ft.

ELEVATION VIEW

SECTION A-A

Temporary berms for sediment trap, overfilled for settlement
Stable embankment with permanent or temporary seeding

Weir Width
Weir Depth
Backslope 2:1 (max.)
Foreslope 3:1 (max.)
Temporary Geotextile
Revetment Riprap

Stable embankment with permanent or temporary seeding

Indianapolis Department of Transportation
TEMPORARY SEDIMENT TRAP
SEPTEMBER 2019
STANDARD DRAWING NO. E 205-TECD-09

5/2/2019  
5/31/2019  
5/2/2019  
5/31/2019  
5/2/2019

Design Standards Engineer  
Chief Engineer
1. Fiber roll may be substituted for filter sock.
2. Filter sock shall be installed as shown or in accordance with manufacturer's recommendations.
3. Filter sock diameter shall be as required by design based on watershed area.
4. Filter sock shall be placed perpendicular to the flow of water.
5. Filter sock shall be secured as shown or in accordance with the manufacturer's instructions.
6. Filter sock does not require staking when fill slope is less than or equal to 12%, except when fill slope is below the QMax water surface elevation and flood prone area.
7. Filter socks shall be secured in locations below the \( Q_{\text{Max}} \) water surface elevation and flood prone area. Filter sock end shall be secured using the stake through method. Intermediate points may be secured using either the stake through or slanted stake method.
8. Stake angle and length shall be sufficient to wedge filter sock to the ground to prevent movement and undercutting.
NOTES:

1. Dimensions will vary based on right-of-way availability. Silt fence shall be placed as close as possible to the edge of construction limits.

2. The spacing of the tiebacks shall equal the spacing of the posts. Additional post depth or tiebacks may be required in unstable soils.

3. Filter Sock shall be used instead of silt fence at or below Q<sub>min</sub>.

Filter Sock shall be used instead of silt fence at or below Q<sub>min</sub>.
NOTE:

1. May be reduced as justified by site conditions, but shall not be less than 50 ft.