

RUSH COUNTY COURTHOUSE
SIDEWALK & SITEWORK IMPROVEMENTS

SECTION 31 25 00 - EROSION CONTROL

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Prevention of soil or sediment leaving project site.
2. Prevention of soil or sediment impacting on-site or off-site activities or conditions.
3. Dust control.

B. Related Sections:

1. Division 02 Section "Selective Site Demolition".
2. Division 31 Section "Site Clearing".
3. Division 31 Section "Earthwork".
4. Division 32 Section "Seeding".
5. Division 32 Section "Planting".

1.2 SUBMITTALS

A. Product data for the following:

1. Silt fence.
2. Inlet filters.

1.3 QUALITY ASSURANCE

A. Regulatory Requirements:

1. The standard for erosion/sediment control for this project is the Indiana Handbook for Erosion Control in Developing Areas, latest edition (Indiana Department of Natural Resources, Division of Soil Conservation). All erosion control work shall conform to this manual.

B. General Requirements:

1. Erosion/sediment control measures are to be installed prior to beginning any earth disturbing activities and maintained throughout construction.
2. The Contractor is responsible for ensuring all specified and necessary erosion/sediment control measures are installed, functioning and properly maintained.
3. Any fines or other costs incurred due to inadequate or improper installation, maintenance or performance of erosion/sediment control measures as identified by the self-monitoring process and/or other agency having jurisdiction over erosion control shall be the sole responsibility of the Contractor.

RUSH COUNTY COURTHOUSE
SIDEWALK & SITEWORK IMPROVEMENTS

PART 2 - PRODUCTS

2.1 MATERIALS

A. Silt Fence:

1. Woven or non-woven produced from 100% polypropylene, designed specifically to retain sediment and remain highly permeable to water.
2. Geotextile shall be attached to wood stakes with wood leathers and staples or nails.
3. Bottom 12 inches of fabric shall be left unsecured to allow for entrenchment.
4. Stakes: 2" x 2" x 36" hardwood sharpened to a point on one end, maximum 5' spacing.
5. Lath: ½" x 1 ½" x 24" for attaching the fabric to the stakes.

B. Inlet Filters: Stream guard catch basin insert by Bowhead Environmental & Safety (800-909-3677), or Architect/Engineer approved equal.

C. Refer to Division 32 Sections "Seeding" and "Planting" for temporary and permanent ground cover requirements.

PART 3 - EXECUTION

3.1 REQUIREMENTS

A. General:

1. Prevent mud and dirt accumulation on all streets surrounding the project. Utilize stone tracking strips/construction entrances, street sweepers, spray trucks, power washers and other necessary and appropriate means as required. Roadways should be kept clear of accumulated sediment that is a result of runoff or tracking.
2. Dust control: Use all necessary and appropriate means, such as water sprinkling, calcium chloride (AASHTO M 144), vegetative cover, spray-on adhesives, as required to prevent dust from being a nuisance to the Owner, public or concurrent performance of work on the site.
3. Always keep the amount of disturbed area to a minimum.
4. Seed immediately after grading soil and install erosion control blanket where applicable.
5. Sequence installation of measures to ensure proper erosion control. See Drawings for basic sequencing requirements.
6. Temporarily seed all areas that cannot be final seeded within a period that will prevent soil erosion. For temporary seeding, utilize a fast-growing seed of oats, annual rye grass, wheat or rye depending on the time of year.
7. See Division 32 Section "Seeding" for seeding requirements.
8. The Contractor shall inform all Subcontractors of the requirements of the Construction Stormwater Pollution Prevention Plan (SWP3) and its maintenance provisions, so that erosion/sediment disruption may be prevented by all those working on site.
9. Un-vegetated areas that are likely to be left inactive for more than 15 days must be stabilized.
10. Proper storage and handling of materials, such as fuels or hazardous waste, and spill prevention and cleanup measures shall be implemented to minimize the potential for pollutants to contaminate surface or ground water or degrade soil quality. Notify Indiana Department of Environmental Management (IDEM) of any release.
11. Final stabilization shall be achieved when all land disturbing activities have been completed, and a perennial vegetative cover exists with at least a 70% density. Once this has been achieved, the

RUSH COUNTY COURTHOUSE
SIDEWALK & SITEWORK IMPROVEMENTS

Contractor shall notify the Owner and Architect/Engineer. The Contractor must still complete all maintenance and quality requirements as specified in Division 32 Sections "Seeding" and "Planting".

3.2 INSTALLATION

A. Silt Fence:

1. Install silt fences where indicated on Drawings and on other areas as required.
2. Follow all manufacturer guidelines for installation.
3. Dig a minimum 8" deep trench along proposed fence line to allow toe-in.
4. Install a fence with stakes on the downstream/slope side.
5. Backfill and compact both sides of trench and ensure fence is anchored sufficiently.

3.3 INSPECTION AND MAINTENANCE

A. General:

1. Inspect all erosion control measures periodically and after each storm event.
2. Repair and replace all measures as necessary to ensure proper soil erosion prevention.
3. Maintain temporary measures until vegetation has been adequately established and construction activities have been completed to a point where the potential for soil erosion has been sufficiently eliminated. The Contractor is responsible for maintaining temporary measures until such a point and then removing the measures, even if all other construction work is complete.
4. Implement erosion/sediment control modifications as directed by the Architect/Engineer.

B. Silt Fence:

1. Inspect periodically and after each storm event.
2. If fabric tears start to decompose, or in any way becomes ineffective, replace the affected portion immediately.
3. Remove deposited sediment when it reaches 1/3 of the height of the fence at its lowest point or when it is causing the fabric to bulge. Do not undermine the fence during cleanup.
4. After the contributing drainage area has been stabilized, remove the fence and sediment deposits, bring the disturbed area to grade and stabilize.

C. Erosion Control Blanket:

1. During vegetative establishment, inspect after each storm event for any erosion underneath the blanket.
2. If any area shows erosion, pull back that portion of the blanket, add soil, reseed, re-lay and re-anchor blanket.
3. After vegetative establishment, check the treated area periodically and repair as required.

D. Inlet Filters:

1. Inspect each inlet periodically and after each storm event.
2. If fabric tears start to decompose, or in any way become ineffective, replace the affected portion immediately.
3. Remove deposited sediment often and do not allow it to build up and cause damage to the fabric or reduce the flow capacity of the inlet.

RUSH COUNTY COURTHOUSE
SIDEWALK & SITEWORK IMPROVEMENTS

4. Remove inlet fabric after the contributing drainage area has been stabilized.
- E. Seeding:
1. Inspect temporary and permanent seeding periodically and after each storm event.
 2. Repair damaged, bare or sparse areas by filling any gullies, re-fertilizing, over-seeding, re-seeding and re-mulching.
 3. Install erosion control blanket over areas that do not hold.
- F. Final Inspection and Acceptance:
1. Contractor shall notify the Owner in writing, 24 hours in advance that the project is ready for final inspection and acceptance. The following conditions must be met:
 - a. All land disturbing activities have been completed, and the entire site has been stabilized.
 - b. All temporary erosion and sediment control measures have been removed.

END OF SECTION 31 25 00