SOIL EROSION/SEDIMENTATION CONTROL

ITEM 116

PART 1 - GENERAL

WORK INCLUDED: (Sec. 01) Furnish all labor, materials and equipment necessary to implement soil erosion and sedimentation controls at the construction site as indicated on the Drawings and specified.

RELATED WORK: (Sec. 02) Furnished/paid for in this Item:

Topsoil (temporary)	Item 205
Seeding (temporary)	Item 210

Furnished/paid for in respective Item: (as applicable)

Clearing and Grubbing
Earth Excavation and Backfill
Calcium Chloride
Trench Topping
Topsoil
Seeding

DESCRIPTION: (Sec. 03) The Contractor shall prepare and submit to the Owner an erosion control plan which outlines the procedures he proposes to perform for erosion and sedimentation control.

Soil erosion and sedimentation control measures shall be implemented prior to commencement of earth moving activities. The plan shall be strictly adhered to, and the Contractor shall maintain, in good condition, all erosion and sediment control measures until permanent soil cover has been established, at which time they are to be removed as authorized by the Engineer.

Details of typical erosion control measures are indicated on the Detail Drawings.

REFERENCES: (Sec. 04) ODOT - Ohio Department of Transportation, Construction and Material Specifications.

SUBMITTALS: (Sec. 05) Erosion Control Plan.

MEASUREMENT/PAYMENT: (Sec. 06) Lump sum payment will be made.

WARRANTY: (Sec. 07) See General Conditions.

PART 2 - PRODUCTS

MATERIALS: (Sec. 08)

Silt Barrier: Bales - hay, straw, See Drawings.

Rock Barrier: ODOT Item 601, Type C. without filter.

Seed/Mulch: ODOT Item 659.

Filter Fabric: ODOT 712.09, Type C, (Class 3).

PART 3 - EXECUTION

PREPARATION: (Sec. 09) Since each construction site is different, soil erosion and sedimentation control is site specific. The Contractor shall regard the specifications and regulations noted herein, as a minimum standard. This shall be adjusted to the specific site as a result of field investigations. During the course of construction, adjustments may be made if necessary to adapt to changing conditions, complaints, advice from regulatory agencies, or directions from the Engineer.

INSTALLATION/APPLICATION: (Sec. 10)

Soil Erosion and Sedimentation Control: If work on this project is suspended for any reason, the Contractor shall maintain the soil erosion and sedimentation control facilities in good condition during the suspension of work. Also, when seasonal conditions permit and the suspension of work is expected to exceed a period of one month, the Contractor shall place topsoil, fine grade, seed, fertilize and mulch all disturbed areas left exposed when work is stopped, as specified herein.

The Contractor shall construct filter barriers as required or as directed by the Engineer to prevent sediment carrying runoff from entering any drainage channel, storm water conveyance facility or natural waterway. Filter barriers shall be constructed of straw bales, rock or geotextile filter fabric as indicated on the Drawings.

The Contractor shall instruct all vehicles to remove soil and loose material from their wheels and undercarriages when leaving the work area. The Contractor shall remove all soil, miscellaneous debris, or other material spilled, dumped, or otherwise deposited on public streets, highways, sidewalks or other public thoroughfares by vehicles in transit to and from the work area.

Construction in Street Areas (paved): The Contractor shall backfill all trenches and place a minimum 4 inch thick layer of compacted crushed stone on all trenches at the end of each workday.

All excess excavated material shall be removed from the street area and stockpiled or disposed of as approved by the Engineer. Stockpiling of excavated material in street gutter lines will not be permitted.

The Contractor shall sweep street areas adjacent to construction at the end of each workday.

Construction in Vegetated Areas: The Contractor shall backfill and rough grade all trenches at the end of each workday and dispose of or stockpile all excess excavated materials as approved by the Engineer.

Within five days after a manhole to manhole section of pipe has been completed, the Contractor

shall place topsoil, fine grade, seed, fertilize, and mulch all areas disturbed by activities associated with the construction of that section of pipe.

When working adjacent to a waterway, the Contractor shall maintain a buffer zone of undisturbed vegetation between the work area and the waterway. If a buffer zone cannot be maintained or is inadequate, the Contractor shall install filter barriers to prevent runoff carrying sediment from entering the waterway.

Fine Grading and Seeding: The Contractor shall place topsoil, to a minimum depth of 4 inches, on those areas which have been disturbed by work in this Contract. The topsoil shall be raked and trimmed to true lines, free from unsightly variations, humps, or ridges. Seed, fertilize and mulch.

Stream Crossing: The Contractor shall place a siltation barrier along the stream banks from work limit to work limit. This barrier shall be of Hay Bales or Plastic Filter Fabric, approved with the Contractors erosion control plan. The Contractor shall be responsible for the control of siltation and erosion. The Contractor shall not disturb or uproot trees or vegetation outside the work limits as shown on the drawings. Siltation water shall not be allowed to enter the stream at anytime. The area of the stream crossings shall be graded and generally restored immediately after the crossing is complete.

If Contractor proposes to employ other construction methods, his construction method of soil erosion and sedimentation control shall be submitted to the Engineer for review and approval.

Maintenance: Silt fences and filter barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately.

Should the fabric on a silt fence or filter barrier decompose or become ineffective prior to the end of the expected usable life and the barrier is still necessary, the fabric shall be replaced promptly.

Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one-half the height of the barrier.

Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.