

SECTION 308 - SEDIMENT AND EROSION CONTROL

308.01 DESCRIPTION

Apply erosion and sediment control measures to all disturbed areas throughout the life of the project to control erosion and to minimize sedimentation in rivers, streams, lakes, reservoirs, bays, and/or coastal waters. Implement the approved Erosion and Sediment Control Plan and any approved modifications to the plan.

308.02 REFERENCE STANDARDS

MSHA Specifications Section 308, latest version
MCDPS Standards for Erosion and Sediment Control
MDE Sediment and Erosion Control Manual Section H-6, latest version

308.03 DEFINITIONS

Not Applicable

308.04 MATERIALS

See MSHA (latest version) Specifications Section 308.02 Materials.

No plastic netting should be used on any M-NCPPC projects. Also, only degradable stakes and staples are to be used.

308.05 SUBMITTALS

Provide submittals for all materials used for sediment control as shown on the plans.

308.06 QUALITY ASSURANCE

All sediment control measures shall be installed and maintained per latest MCDPS Standards for Erosion and Sediment Control, the latest MDE/WMA/NRCS/MASCD Maryland Standards and Specifications for Erosion and Sediment Control, and the MDE/WMA National Pollution Discharge Elimination System (NPDES) Notice of Intent (NOI) General Permit for construction activities.

308.07 CONSTRUCTION

See MSHA (latest versions) Specifications Section 308.03 Construction.

- A. Upon approval of the construction contract and issuance of the Notice to Proceed, the M-NCPPC Construction Manager will approve the Contractor to stake out the Limits of Disturbance (LOD) and then arrange a pre-construction meeting between Montgomery County DPS Sediment Control Inspection Staff, the General Contractor, appropriate M-NCPPC staff, and any other required county, state or jurisdictional personnel.

1. The Contractor will be provided with copies of the Sediment Control Permit and all other required permits at this time, and must keep a copy of each permit on site at all times.
 2. The Contractor shall not start any construction prior to this meeting.
 3. Contractor shall review and understand Sequence of Construction and present any concerns to M-NCPPC Construction Manager prior to start of work.
- B. Installation of sediment controls shall begin only after the MCDPS Sediment Control Inspector and M-NCPPC Construction Manager has granted approval, and shall include any modifications to the approved Sediment Control Plan that the Sediment Control Inspector has required. Contractor is responsible for proper installation of all controls and coordinate field adjustments to ensure functioning throughout construction.
- C. All subsequent notifications for inspection and coordination with the Sediment Inspector are the responsibility of the Contractor. Events requiring Sediment Control inspection and approval include, but may not be limited to start of grading, compliance with warning notices, lifting of stop work orders for violations, start of temporary or permanent stabilization, removal of Sediment Control facilities, and any other pertinent events noted in the plans or specifications.
- D. Grading shall be accomplished throughout the entire project such that existing surface drainage pathways and existing pipe/culvert conveyance systems outside of the LOD are not impacted; hazardous conditions are not created; erosive conditions are not created outside of the LOD as a result of site work; and uncontrolled sediment will not pass or collect into existing drainage systems and their downstream tributaries.
- E. The Contractor shall be aware of current onsite graded conditions and ensure that sequence of site work and drainage area delineations comply with the approved sediment control plans. The Contractor shall ensure all disturbed and unstabilized drainage areas are properly conveyed to the sediment control device specified on the approved sediment control plans. The Contractor shall identify offsite drainage patterns and ensure LOD crossings of drainage paths are appropriately stabilized and/or clean water conveyances around work areas are established during construction.
- F. Maintenance and repair of all sediment control facilities shall be the responsibility of the Contractor. The Contractor shall inspect and properly maintain all sediment control facilities at the end of each working day to ensure that the sediment control device will not be overburdened by sediment-laden runoff during storm events. M-NCPPC and MCDPS inspectors will also conduct regular inspections of the facilities and inform the contractor of any required maintenance and/or repairs.
- G. Infiltration or porous structures such as porous asphalt, porous concrete, concrete pavers and stone trenches shall be protected and kept clean at all times from dirt and debris after installation and until final approval by MCDPS and M-NCPPC. The contractor shall, at a minimum, sweep, vacuum, and use hand blowers at regular intervals to comply with this requirement.

- H. The Contractor is required to perform weekly inspections of all sediment controls on the entire site as well as after every rain or snow event, as part of the MDE/WMA NPDES NOI general permit requirements. All findings shall be documented on the MDE inspection forms provided at the pre-construction meeting. The completed inspection forms shall remain on-site at all times and be accessible to all who ask to review these documents.
- I. M-NCPPC may require the Contractor to install additional sediment controls to improve sediment removal without impacting the functioning of the approved Sediment Control Plan. Examples of additional controls including installing a second row of silt/super silt fence and installing erosion control matting to disturbed areas.
- J. Dust and Airborne Contaminates Control: The Contractor shall provide water as necessary to reduce airborne dust when directed by the M-NCPPC Construction Manager, at no additional cost to the M-NCPPC.
- K. The Contractor shall ensure that all public and private roads used by construction equipment are maintained in safe conditions and kept clean of sediment and debris. Sediment shall be removed from truck tires via stabilized construction entrances, tire wash racks, or by other acceptable methods before leaving the construction site. Routine maintenance shall be performed on the roadways as necessary, including sweeping, vacuuming, or other acceptable methods and as directed by M-NCPPC.

When washing construction equipment, rinsate shall be directed towards approved-sediment control devices. Rinsate from equipment that is used to handle and transport concrete shall be directed towards watertight concrete washout structures per design criteria and details in Section H-6 of the latest version of the MDE Sediment and Erosion Control manual.

- L. Removal of sediment control facilities:
 - 1. Once the project has been completed, and all disturbed areas have been stabilized as called for in the plans, the Contractor shall contact the M-NCPPC Construction Manager and MCDPS Sediment Control Inspector for approval to remove the sediment control features. Note that seeded areas must have a visible stand of vegetation prior to this inspection.
 - 2. When permitted, the Contractor shall remove all sediment control features and regrade such areas to proposed designed grades and seed and/or sod them as required. The area shall have a smooth transition from the LOD to the existing conditions. Project will not be accepted until a full stand of grass is present in the area.

308.08 MEASUREMENT AND PAYMENT

Payment will be full compensation for all material, labor, equipment, tools and incidental items necessary to complete the work. Periodic maintenance of sediment control measures as directed by M-NCPPC Construction Manager or DPS Inspector shall be included in the bid prices for sediment control items. No extra payment shall be made for maintenance or removal of sediment control measures. Payment shall be made on a unit rate or lump sum basis as shown in the bid proposal.