

CONSTRUCTION SCHEDULE

CONSTRUCTION SPECIFICATIONS

1. Obtain plan approval and other applicable permits including grading permits for borrow site. Refer to Section 230 "Borrow Excavation" in the 2012 NCDOT Standard Specifications.
2. Flag the work limits for protection.
3. Hold preconstruction conference at least one week prior to starting construction.
4. Prior to any land disturbing (including demolition) activities, install gravel and rip rap basin, temporary diversion, fabric/block and gravel drop inlet protection, temporary gravel construction entrance/exits, check dams, tree protection fence, and silt fence as shown on the erosion control plans.
5. In accordance with the erosion control plans and traffic control plans: grade roadway, install storm drain system, and place inlet protection at each catch basin and drop inlet. Until boxes are built and yard inlet devices installed, install and maintain storm drain under construction at end of day or onset of rain. Place outlet protection as shown on plans. Place additional check dams and stabilized ditches as indicated. Modify silt fence placement around pipe inlets and outlets as necessary, place silt fence around top of proposed headwalls.
6. Complete final grading for roads and stabilize with gravel.
7. Finish drainage inlets, place curb and gutter and pavement, and build shoulders.
8. Finish grading of slopes, topsoil critical areas and permanently vegetate, seed and mulch.
9. All graded areas will be seeded, fertilized and mulched according to NCDOT specifications to maintain a vigorous, dense, vegetative cover within 21 calendar days or sooner of completion of any phase of grading. If work on the project ceases for more than the aforementioned length of time, all disturbed areas shall have temporary vegetative ground cover established and erosion control devices maintained.
10. After seeding is established, the contractor shall call NC DENR and arrange for a final site inspection. Upon approval, all temporary erosion control measures shall be removed from the project.
11. All erosion and sediment control practices will be inspected weekly and after rainfall events. Needed repairs will be made immediately.
12. Estimated time before final stabilization is 12 months.
13. Site includes approximately XX acre of permanent vegetation area.
14. After site is stabilized, gravel and rip rap basin, temporary diversion, and construction staging and material area stockpile areas, shall be removed, restored as existing, and permanently vegetated as described in the maintenance and vegetative plan.

MAINTENANCE

Follow the construction sequence throughout project development. When changes in construction activities are needed, amend the sequence schedule in advance to maintain management control.

MAINTENANCE PLAN

1. The Contractor shall check all erosion and sediment control practices for stability and operation following every runoff producing rainfall but in no case less than once every week. Any needed repairs will be made immediately by the Contractor to maintain all practices as designed. Also per National Pollutant Discharge Elimination System (NPDES) general stormwater permit, a rain gauge must be installed on site. The rain gauge must be kept onsite and inspections by the contractor must be made and logged after every half inch of rainfall and once a week.
2. The Contractor shall remove sediment from sediment trap when storage capacity has been approximately 50% filled. Gravel will be cleaned or replaced when the sediment pool no longer drains properly.
3. The Contractor shall remove sediment from behind silt fence when it becomes 0.5 feet deep at the fence. Silt fence will be repaired as necessary to maintain a barrier.
4. The Contractor shall fertilize, reseed as necessary, and mulch all seeded areas according to specifications in the vegetative plan to maintain a vigorous, dense vegetative cover.
5. The Contractor shall provide ground cover on exposed slopes or other areas within 21 calendar days of completion of any phase of grading. Permanent ground cover is to be provided for all disturbed areas within 21 calendar days or sooner following completion of construction or development.

Special Sediment Control Fence:

Description:

The work covered by this section consists of the construction, maintenance, and removal of special sediment control fence. Place special sediment control fence as shown on the plans or as directed by the Engineer.

Materials:

(A) Posts:

Steel posts shall be at least 5 feet in length, approximately 1 3/8 inches wide measured parallel to the fence, and have a minimum weight of 1.25 lb/ft of length. The post shall be equipped with an anchor plate having a minimum area of 14.0 square inches, and shall have a means of retaining wire in the desired position without displacement.

(B) 1/4 inch Hardware Cloth:

Hardware cloth shall have 1/4 inch openings constructed from #24 gauge wire. Install hardware cloth according to the detail shown on the plans.

(C) Sediment Control Stone:

Sediment control stone shall meet the requirements of Section 1005. Install stone according to the detail shown on the plans.

Maintenance and Removal:

The Contractor shall maintain the special sediment control fence until the project is accepted or until the fence is removed, and shall remove and dispose of silt accumulations at the fence when so directed by the Engineer in accordance with Section 1630.

The quantity of posts, sediment control stone and hardware cloth as measured above will be paid for at the contract price for "Lump Sum for Erosion Control". Such price and payment will be full compensation for all work covered by this provision, including but not limited to, furnishing all materials, installation, and removal and disposal of silt accumulations and materials.

SAFETY FENCE:

Description

Safety Fence shall consist of furnishing, installing and maintaining polyethylene or polypropylene fence along the outside riparian buffer, wetland, or water boundary located within the construction corridor to mark the areas that have been approved to infringe within the buffer, wetland or water. The fence shall be installed prior to any land disturbing activities.

Materials

Polyethylene or polypropylene fence shall be a highly visible preconstructed safety fence approved by the Engineer. The fence material shall have an ultraviolet coating.

Either wood posts or steel posts may be used. Wood posts shall be hardwood with a wedge or pencil tip at one end, and shall be at least 5 ft. in length with a minimum nominal 2" x 2" cross section. Steel posts shall be at least 5 ft. in length, and have a minimum weight of 0.85 lb./ft. of length.

Construction Methods

No additional clearing and grubbing is anticipated for the installation of this fence; however, if any clearing and grubbing is required, it will be the minimum required for the installation of the safety fence. Such clearing shall include satisfactory removal and disposal of all trees, brush, stumps and other objectionable material.

The fence shall be erected to conform to the general contour of the ground. When determined necessary, minor grading along the fence line shall be performed to meet this requirement provided no obstructions to proper drainage are created.

Posts shall be set and maintained in a vertical position and may be hand set or set with a post driver. If hand set, all backfill material shall be thoroughly tamped. Wood posts may be sharpened to a dull point if power driven. Posts damaged by power driving shall be removed and replaced prior to final acceptance. The tops of all wood posts shall be cut at a 30-degree angle. The wood posts may, at the option of the Contractor, be cut at this angle either before or after the posts are erected.

The fence fabric shall be attached to the wood posts with one 2" galvanized wire staple across each cable or to the steel posts with wire or other acceptable means.

The Contractor shall be required to maintain the safety fence in a satisfactory condition for the duration of the project as determined by the Engineer.

Measurement and Payment

Safety Fence will be paid for at the contract price for "Lump Sum for Erosion Control". Such payment will be full compensation including but not limited to clearing and grading, furnishing and installing fence fabric with necessary posts and post bracing, staples, tie wires, tools, equipment and incidentals necessary to complete this work.

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RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO. SHEET NO.

W-5510

EC-2

R/W SHEET NO.