

ITEM 10607.9968 M - NOISE BARRIER FOOTINGS

DESCRIPTION

This work shall consist of constructing noise barrier footings in accordance with the details as shown on the contract plans and where indicated in the contract plans. The work shall include all elements of construction including initial survey, excavation, concrete, reinforcement and record as-built survey.

MATERIALS

Materials for this work shall meet the following requirements:

Concrete for footings shall be Class A concrete conforming to the requirements of Section 501.

Reinforcement for footings shall be uncoated and conform to the requirements of Section 556.

CONSTRUCTION DETAILS

The contractor shall stake out the proposed location of each footing for review and approval by the Engineer. Holes for each footing shall be staked out in a manner that will allow verification of the center of the hole after the hole is excavated. Existing utilities and other subsurface conflicts shall also be marked out before review of the stake out. The contractor shall submit proposed methods for avoiding interference with subsurface conflicts while maintaining the uniform footing spacing. Upon approval, the contractor shall submit the proposed station, offset and top of footing elevation for each footing.

Holes for post foundations 900 millimeters in diameter and to the depths shown on the contract plans shall be pre-augered, true and plumb as approved by the Engineer. Precautions shall be taken to protect the holes from collapse. The contractor shall place reinforcement as shown on the contract drawings and fill the hole with Class A concrete. Handling and placing of concrete shall conform to the requirements of Subsection 555-3.04 of the Standard Specifications. Holes shall contain no free water at the time of concrete placement. The concrete shall be in direct contact with the soil, properly consolidated to a point shown on the plans as the top of footing elevation.

Curing of the concrete shall conform to the requirements of Subsection 555-3.09 of the Standard Specifications.

Footings shall be constructed to a center to center spacing and tolerance as shown on the contract plans. The top of footing elevation shall be 125 mm below the bottom panel elevations shown on the plans. The top of footing elevation at a panel step, or where the bottom elevations at adjacent panels are different, shall be 125 mm below the lower of the two elevations.

Any footing that does not meet the tolerance requirements indicated on the plans, or that is deemed unacceptable by the Engineer for any other deficiency, shall be removed and replaced by a means

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acceptable to the State at no additional cost.

After the footings are constructed, the contractor shall permanently mark the footing centerline on the top of each footing. The contractor shall submit a complete record set of plans prepared by a licenced surveyor, showing station and offset for each footing as well as the exact centerline spacing and top of footing elevation for each footing.

METHOD OF MEASUREMENT

The noise barrier footings will be measured by the cubic meter. The quantity will be calculated from the height and diameter of footings shown on the plans.

BASIS OF PAYMENT

The unit price bid per cubic meter of concrete shall include the cost of furnishing all labor, equipment, materials and tools necessary to complete the work. This shall also include the cost of concrete, reinforcement, drilling or augering the foundations and disposal of all surplus excavation. Also included is the cost of all necessary survey and record plan submissions.

The unit price bid shall include the costs to prepare, submit and to complete all work necessary in order to avoid subsurface interference and maintain a uniform footing spacing as shown on the contract plans.