

NATURAL RESOURCES CONSERVATION SERVICE

CONSTRUCTION SPECIFICATION

561 - HEAVY USE AREA PROTECTION

1. SCOPE

This work shall consist of furnishing materials, preparing a base, forming, placing, and curing the materials needed for installing paving and appurtenances as shown in the drawings or as specified herein.

Prior to commencing construction, public utilities shall be notified in accordance with N.Y.S. Industrial Code 753.

Asphalt paving shall not be performed if temperature of surfaces on which asphalt is to be placed is less than 45⁰F, unless alternative construction methods have been reviewed and approved by the approving official or designated representative.

Concrete paving shall be covered by NY NRCS Construction Specification 832 – Concrete.

2. MATERIALS

The paving shall be constructed of processed gravel, asphalt or other suitable materials shown on the drawings. The quality and grade of materials shall conform to the requirements as shown on the drawings or as specified herein.

3. FOUNDATION PREPARATION

The subgrade will be prepared as shown on the drawings and as approved by the approving official or designated representative.

Compacted bedding material of clean gravel or crushed stone shall be placed to the thickness, finished grade, and to the limits of the paving as shown on the drawings. Unless otherwise shown on the drawings or as specified in Section 7, the bedding material shall consist of well-graded material with 100% passing a 3 inch sieve and less than 8% passing a 200 sieve. The bedding material shall be placed in uniform layers of not more than 8 inches deep prior to compaction. Compaction shall be accomplished by 2 passes over the entire surface layer with a hand directed mechanically powered vibratory plate compactor or a vibratory roller.

If paving is to be placed against earth surfaces, the earth surface shall be firm and damp. Placement of paving materials on mud, wet or saturated earth, uncompacted fill or frozen subgrade will not be permitted.

Prior to placement of asphalt, the forms and base shall be free of chips, sawdust, debris, standing water, ice, snow, extraneous oil, mortar or other harmful substances or coatings and shall be inspected and approved by the approving official or designated representative.

4. GRAVEL PAVING

The gravel material used for the paving shall meet the gradation requirements shown on the drawings or as specified in Section 7. The finished gravel paving shall be graded to the elevations and grades shown on the drawings.

The gravel is to be placed in layers not exceeding 8 inches thick prior to compaction. Compaction shall be accomplished by manually directed vibratory plate compactors or vibratory rollers. The compaction equipment shall be routed over the entire lift of gravel paving material so that each lift shall be traversed by at least 2 passes of the compaction equipment.

When geotextile is specified, it shall conform to NRCS Material Specification 592, Class 1. It shall be installed in accordance with NRCS Construction Specification 95.

5. ASPHALT PAVING

Asphalt paving shall contain 2 courses above the base foundation as specified in Section 3. The composition of asphalt paving mixtures shall meet the requirements of NYS DOT Table 403-1. The base course shall be Type 1 (Base) that has a minimum compacted thickness of 3 inches. The top course shall be Type 3 (Binder) that has a minimum compacted thickness of 2 inches.

A batch ticket shall be provided by the supplier for each load of bituminous mix delivered to the site. The batch ticket shall state the class of mix, gradation and asphalt used in the mixture.

The asphalt mixtures shall be mixed and placed with a temperature ranging between 250-325⁰F. Spreading of the asphalt shall be done by a paver or by hand methods. After the asphalt has been struck off, it shall be uniformly compacted by rolling. A minimum 10-ton roller at speeds less than 3 mph shall be used in the compaction of each course ensuring that each course surface is completely traversed by the compaction equipment. Mechanical tampers shall be used along forms, curbs, walls, and other areas not accessible to rollers.

6. MEASUREMENT AND PAYMENT

Method 1

For items of work for which specific unit prices are established in the contract, the area of the paving will be measured and computed to the nearest square yard from the outside limits of the pad or curbing, if existing, to the opposite outside limits of the pad or curbing. Payment for the paving, including curbing, will be made at the contract unit price. Such payment will constitute full compensation for all labor, materials, equipment, transportation, tools, and other appurtenances necessary and incidental to the completion of the work, including foundation and backfill materials, reinforcing fabric or steel, joints, dowels or other items not listed for payment elsewhere in the contract.

Method 2

For items of work for which specific lump sum prices are established in the contract, the quantity of paving will not be measured. Payment for the paving, including curbing, will be made at the contract lump sum price. Such payment will constitute full compensation for all labor, materials, equipment, transportation, tools, and other appurtenances necessary and incidental to the completion of the work, including foundation and backfill materials, reinforcing fabric or steel, joints, dowels or other items not listed for payment elsewhere in the contract.

Compensation for any item of work described in the contract but not listed in the bid schedule will be included in the payment for the item of work to which it is made subsidiary. Such items and the items to which they are made subsidiary are identified in Section 7.

7. ITEMS OF WORK AND ADDITIONAL CONDITIONS: