## **TECHNICAL SPECIFICATIONS**

# ITEM 00109 CONCRETE DRIVEWAY REPLACEMENT

#### DESCRIPTION

1.1 This section covers the furnishing of all material and construction of concrete driveways in accordance with the drawings and these specifications.

## 2. MATERIALS

2.1 The concrete shall be 5 sacks per cubic yard.

#### 3. CONSTRUCTION METHOD

- 3.1 Stripping: All grass and humus material shall be stripped and removed from the area of the driveways.
- 3.2 Grading: After stripping and removing of grass and humus material, any soft or otherwise unsuitable material within the sidewalk area shall be removed and replaced with approved fill materials and compacted to a depth of four inches (4").
- 3.3 Forms: The driveways shall be formed and braced with suitable material prior to pouring of concrete.
- 3.4 Concrete shall not be placed when the temperature is below 40 degrees F. and falling, but may be placed when the temperature is 35 degrees F. and rising, the temperature shall be taken in the shade and away from artificial heat.
- 3.5 Concrete shall not be placed before time of sunrise, and shall not be placed later than will permit the finishing of the pavement during sufficient natural light.
- 3.6 Workers will not be permitted to walk in the concrete with earth or foreign material on their boots or shoes. Repeated failure to clean their boots or shoes when walking in the concrete shall be deemed sufficient cause for removing or replacing such workers.
- 3.7 Any concrete not placed as herein prescribed within thirty (30) minutes after mixing, shall be rejected and disposed of as directed by the Owner's Representative.
- 3.8 Concrete shall be distributed to such a depth that when consolidated and finished, the slab thickness required by plans will be obtained at all points and the surface shall not, at any point, be below the established grade. Special care shall be exercised in placing and spading concrete against forms at all joints to prevent the forming of honeycombs or voids.

## 4. FINISHING

4.1 Hand Finishing: The concrete shall be struck off with an approved strike-off screed to such an elevation that when consolidated and finished the surface of the pavement shall conform to the required section and grade. The strike template shall be moved forward with a combined transverse

and longitudinal motion in the direction the work is progressing, maintaining the template in contact with the forms and maintaining a slight excess of material in front of the cutting edge. The concrete shall then be tamped with an approved tamping template to compact the concrete thoroughly, and eliminate surface voids, and the surface screeded to required section.

4.2 After completion of a strike-off, consolidation, and transverse screeding, hand-operated longitudinal float shall be operated to test and level the surface to the required grade. Workers shall operate the float from approved bridge riding on the forms and spanning the pavement. The longitudinal float shall be operated with short longitudinal strokes while being passed from one side of the pavement to the other.

#### 5. CURING

- 5.1 Immediately after finishing operations have been completed, the entire surface of the newly laid concrete shall be covered and cured.
- 5.2 Failure to provide sufficient cover material of the type the contractor elects to use, failure to maintain saturation in wet curing methods, lack of water to adequately take care of both curing and other requirements, or other failure to comply with curing requirements shall be cause for immediate suspension of concreting operations.

## 6. PROTECTION OF CONCRETE DRIVEWAYS

6.1 The contractor shall erect and maintain the barricades required by the plans and such other standard barricades and approved devices as will exclude the use of the driveway for a period of time as directed by the Owner's Representative.

## 7. OPENING DRIVEWAY TO OWNER

- 7.1 The driveway shall be closed to all traffic vehicles until the concrete is at least two (2) days old. This period of closure to all traffic may be extended, if in the opinion of the Owner's Representative, conditions make it advisable to provide an extension of the time of protection.
- 7.2 The Owner's Representative may require the opening of the driveway to traffic prior to the minimum time specified above under conditions of emergency which, in his opinion, require such action in the interest of the public or homeowner.

#### 8. MEASUREMENT

8.1 Concrete driveways will be measured for payment by the square yard of surface area of completed and accepted work.

#### 9. PAYMENT

9.1 Concrete driveways will be measured as provided under "Measurement" and will be paid for at the unit price bid per square yard of completed and accepted work, which price shall be full compensation for excavation and fine grading the driveway, including furnishing and installing sand cushion, all reinforcing steel, hauling and handling all concrete ingredients, mixing and placing concrete, finishing, curing, cleaning, and sealing joints; and placing longitudinal, reinforcing steel and all incidentals necessary to complete the work.