

All borrow pits outside the right of way shall be acquired by the County, and all borrow pits shall be left in a clean and satisfactory condition, and shall be thoroughly drained.

(c) The contractor shall remove boulders and all muck, quick-sand, soft clay, and spongy material which will not consolidate under the rollers, from the subgrade to a depth to be determined by the Engineer. He shall refill the space with acceptable material, from the excavations, or with stone or gravel if so directed. If stone or gravel is used, the same will be paid for at actual cost.

(d) After all drains have been laid and the subgrade has been properly shaped, it shall be compacted with an approved self propelled roller, weighing no less than ten (10) tons. Care shall be taken not to roll a clay foundation to an extent that it will develop a plastic condition. All hollows and depressions which develop shall be filled with acceptable material and the subgrade shall again be rolled, this process of filling and rolling shall be repeated until no depressions shall develop. In places where the character of the material makes the use of the roller impracticable, a lighter one may be permitted.

(e) All ditches and drains shall be satisfactorily completed to effectively drain the highway.

(f) At such intervals as the Engineer may direct, lateral trenches or weepholes shall be opened thru the shoulders of the ditches. These shall be filled with material satisfactory to the Engineer, and the cost of the same be paid for at actual cost.

39. EMBANKMENTS. Shall be formed of suitable materials. If not formed of stone, all reasonable precaution shall be taken to ensure a solid embankment. The upper surface of the embankment shall be rolled and left in a satisfactory condition and approximately to the lines and grades as shown upon the plans.

(a) Large stones shall not project within six (6) inches of the finished sub grade or shoulders, and all hollows and depressions shall be filled with smaller stones from the excavation, or other acceptable material.

(b) Where the filling is less than two (2') feet in depth, all vegetable matter shall be removed from the original surface. Sod shall be removed, and payment shall be made as "excavation" of not to exceed three (3") inches over the entire area from which sod is removed.

(c) Where necessitated by the existing slope, the surface shall be trenched, or otherwise broken up, before placing new embankment thereon. Such trenching or breaking up shall be considered as manipulation, and shall not be paid for.

(d) Embankments where concrete is to be placed thereon, shall be constructed in horizontal layers, not exceeding twelve (12") inches, when in his opinion the same is necessary. Each layer shall extend across the entire fill and shall be compacted and thoroughly rolled to the satisfaction of the engineer.

(e) In order that fills and embankments may be allowed natural settlements to as great an extent as possible, all culverts and other structures below the road surface shall be constructed and back filled as long as possible before the construction of the road surface.

(f) At all intersections of public highways, the contractor shall grade back a sufficient distance and as directed by the engineer, so that a smooth riding and satisfactory junction will be produced.

(g) The quantity of the excavation to be paid for shall be the number of cubic yards of material measured in its original position, excavated and disposed of as directed by the Engineer.

40. EARTH EXCAVATION. ITEM NO. I. Shall include excavation of all materials specified above, including borrow, except as provided below for loose and solid rock excavation, and shall include old macadam and sod to a depth of three (3") inches when the same may be ordered by the Engineer.

41. LOOSE ROCK ITEM NO. II. shall include all stone, boulders and detached rock lying in its original position in separate masses of more than three (3) cubic feet and less than one half ($\frac{1}{2}$) Cubic yard in size, and all slate, soap stone, cement gravel, coarse boulder in gravel or hard pan.

42. ROCK EXCAVATION. ITEM NO. II-A-. Shall include excavation of all boulders, of more than one half ($\frac{1}{2}$) cubic yard in volume, and all other large rocks and other material which is so hard that it is not practicable to loosen with pick and shovel. The price bid for earth excavation and borrow, loose and solid rock excavation shall cover all labor, materials, supplies, plant, tools, and incidentals for the removal, delivery, etc., of excavated materials in embankments or spoil banks, and for hauling, compacting, rolling and grading the same, and all other work incidental thereto.

43. OVERHAUL. ITEM NO. III. If the haul on excavated material, either from cuts or borrow pits made in accordance with the direction from the engineer, exceeds Five Hundred (500') Feet, measured along the shortest practicable line of haul, from the source of supply to the place of deposition, it shall be classified as OVERHAUL. For each (100') One Hundred Feet of Overhaul greater than Five Hundred (500') feet, the contractor shall receive the price bid for overhaul per cubic yard of all materials so removed, measured in its original position. The price bid shall cover all labor, appliances and incidentals necessary to complete the work.

44. EXTRA OR FORCE ACCOUNT WORK.

On all work not specifically herein provided for and for which no provision has been made as to payment, which may be ordered in writing by the Engineer, shall be known as extra or force account work, and shall be paid for at cost, plus the per centage shown in the Contractor's proposal, which provision is herein made for such work.