

**SPECIFICATIONS - DETAILED PROVISIONS**  
**Section 02505 - Roadway Base Course**

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**SECTION 02505  
ROADWAY BASE COURSE**

**PART 1 - GENERAL**

**1.01 REQUIREMENT**

Work included under this specification shall include furnishing all labor, equipment and tools required for the complete construction of roadway base course as shown on the Bidding Sheets, shown on the Contract Drawings and specified herein, all within the time stated in the Special Requirements of this specification.

Included in the work of roadway base course construction is all clearing, stripping, excavating, scarifying, compacting, haul and overhaul, trimming and placing, as specified on plans or in Detailed Provisions. The Contractor shall furnish all material not specifically called for as furnished by the District.

**1.02 CONSTRUCTION WORK AND METHODS**

Rights of Way and Land. The District will provide the rights-of-way and acquire the land necessary for the construction of the work under this specification. Neither the terms hereof nor anything shown on the drawings shall be construed to entitle the Contractor to conduct operations in violation of any public agency ordinance or regulation restricting interference with water courses, drainage channels, roads, alleys or streets, until he had obtained permits therefore from the proper authorities.

In all the streets in which his work may interfere with ingress or egress of the occupants of the abutting property or of their vehicles, the Contractor shall maintain temporary practicable means of ingress and egress, or shall make satisfactory arrangements with the occupants for the obstructing of ways to their properties for the duration of the interference. Nothing herein shall be construed to entitle the Contractor to the exclusive use of any public street or way during performance of the contract work, and he shall so conduct his operations as not to interfere unnecessarily with the authorized work of other agencies in such streets and ways.

**1.03 CONSTRUCTION WORK**

It shall be the responsibility of the Contractor to meet with the Engineer regarding the equipment and methods to be used in the construction of the work, and for approval of the order and schedule of the work.

**1.04 COMPLIANCE WITH REGULATIONS**

The Contractor shall familiarize himself and comply with all applicable state, county and municipal rules and regulations pertaining to sanitation, fire protection, barriers, warning lights and signs.

#### 1.05 DUST ABATEMENT

The Contractor shall furnish all labor, equipment and means required and shall carry out protective measures wherever and as often as necessary in the opinion of the Engineer to prevent his operations from producing dust in amounts damaging to property or causing nuisance. The Contractor shall be responsible for any damage resulting from dust originating from his operations. The dust abatement measures shall be continued until all required resurfacing is completed or until the Contractor has completed arrangements with the proper authorities whereby he is relieved of further responsibility. Such arrangements shall be approved by the Engineer prior to their completion. All compensation to be received for dust abatement shall be included in the prices named for appropriate items of the bidding sheet.

#### 1.06 LINES, GRADES AND MEASURES

All lines and grades will be established by the Engineer and the Contractor shall provide him with such assistance and materials as may be required. The Contractor shall carefully preserve all survey stakes and reference points as far as possible. Should any stakes or points be removed or destroyed unnecessarily by any act of the Contractor or his employees, they may be reset at the Contractor's expense.

The Contractor shall inform the Engineer a reasonable length of time in advance of the times and places at which he intends to work in order that lines and grades may be furnished, that inspection may be provided, and that necessary measurements for records and payments may be made with minimum inconvenience.

#### 1.07 RIGHT TO OCCUPY COMPLETED PORTIONS OF WORK

The District may wish to occupy or place in service portions of the completed work before final completion of the contract work and shall be at liberty to do so, but such occupancy or placing in service of any completed portion of the work shall not void the contract nor relieve the Contractor of his responsibility of protection and care of all work until final completion and acceptance of the entire work, provided, however, that expense directly attributable to operation and placing in service the portions of the work shall not be chargeable to the Contractor.

#### 1.08 MAINTENANCE OF UTILITIES

Insofar as practical during the progress of the work the property of any owner of a public utility pipeline or conduit, sewer, culvert, storm drain, drainage ditch, flood control channel, overhead wires or cables, or underground wires or cables, or any other structure of facility shall not be disturbed but shall be supported and protected against injury and maintained in good operating condition at the expense of the Contractor. In no case shall any such property be disturbed or removed without the consent of the owner and approval of the Engineer. The Contractor shall be responsible for making good all damage due to his operations and the provisions of this section shall not be abated even in the event such damage occurs after backfilling, or is not discovered until after completion of backfilling.

The drawings show the position of various pipes and conduits and other structures as they are supposed to exist in construction areas, but the Contractor before commencing excavation shall ascertain from records and otherwise the existence, position and ownership of such facilities and no error or omission on said drawings shall be construed to relieve the Contractor from the responsibility of protecting any such pipe, conduit, or other structure.

#### 1.09 SAFEGUARDING EXCAVATIONS AND PROTECTING PROPERTY

Excavations shall be adequately shored and braced so that the earth will not slide or settle and so that all existing improvements of any kind will be fully protected from damage. Any damage resulting from a lack of adequate shoring and bracing shall be the responsibility of the Contractor. The Contractor shall effect all necessary repairs or reconstruction at the Contractor's own expense as directed by the Engineer and shall bear all other expense resulting from such damage.

#### 1.10 WASTE WATER

The Contractor shall take care of drainage water on construction operations and of storm water and waste water reaching the right of way from any source so that no damage will be done to the materials or work under construction. The Contractor shall be responsible for any damage to persons or property on or off the right of way due to such diversion of storm or waste water on account of his operations. Adequate flumes shall be provided for conveying storm water around the work wherever runoff from tributary drainage areas exists.

#### 1.11 CLEANING UP DURING THE PROGRESS OF WORK

The Contractor shall keep the premises occupied by him in a neat and clean condition, and free from unsightly accumulation of rubbish. Upon completion of the work and before the final estimate is submitted, the Contractor shall, at his own cost and expense, satisfactorily dispose of or remove from the vicinity of the work all plants, buildings rubbish, unused materials, concrete forms, and other equipment and materials belonging to him or used under his direction during the construction, and in the event of his failure to do so, the same may be removed and disposed of by the District at the Contractor's expense.

Fences on the right of way shall be removed by the Contractor where necessary for the performance of the work and where required shall be rebuilt in as good condition as found. Where designated, fences shall be maintained until the work is completed or their removal is authorized. Where the Contractor removes existing fences to facilitate the work, temporary fence protection for lands adjacent to the right of way shall be provided at all times during the continuation of the Contract. Such temporary fence protection shall be adequate to prevent livestock from straying from or onto adjacent lands and shall be constructed complete with gates and/or cattle guards. The cost of all work described in this paragraph shall be included in the prices bid in this schedule or other items of work.

Through all cultivated areas where trench backfill is required, topsoil removed from excavations shall be replaced as backfill in the uppermost part of the excavation to a depth as it existed previous to excavations, not exceeding 18 inches. Where topsoil replacement is required, excavated topsoil shall be stored separately from other materials and in general shall be replaced as backfill in the same parcel of land from which it came. Any damage to crops outside the right of way or land acquired for the work shall be paid for by the Contractor.

#### 1.12 BLASTING

The use of explosives on the work shall be subject to the approval of the Engineer. All operations involving the handling and storage and use of explosives shall be conducted with every precaution prescribed by the Construction Safety Orders of the Division of Industrial Safety of the State of California and by local laws and regulations. Only competent, reliable persons, working under experienced supervisors shall be permitted to use explosives. The Contractor will be held responsible for and shall make good any damage caused by blasting or otherwise resulting from disposition or use of explosives on the work.

#### 1.13 GUARANTEE

The Contractor hereby guarantees that the entire work constructed by them under this specification will fully meet all requirements thereof as to quality of workmanship and conformance to plans and specifications. The Contractor hereby agrees to make, at his own expense, any repairs or reconstruction made necessary by defective workmanship supplied by him, which may become evident within one year after the date of notice of completion and acceptance of the work is filed, and to restore to full compliance with the requirements of these specifications any part of the work which during said one year period is found to be defective or deficient with respect to any provision of these specifications. The Contractor shall make all such repairs or reconstruction promptly upon receipt of written orders for same from the Engineer. If the Contractor fails to make the repair or reconstruction promptly, the District may do the work, and the Contractor and his surety shall be liable to the District for the cost thereof.

#### 1.14 SUPERVISION BY ENGINEER

The grading operations will be under the direct supervision of an Engineer employed by the District. The exact nature of the soils as they are disclosed will be evaluated by the Engineer, and he will make all final determinations as to the adequacy of work performed on the site. The Engineer will make such tests as are necessary to assure proper performance of the work.

**END OF SECTION 02505**