

**DEPARTMENT OF TRANSPORTATION**

ESC/OE MS #43  
1727 30TH Street, 2ND Floor  
Sacramento, CA 95816



July 24, 2000

02-Sha-44-85.8/86.6  
02-307104  
ACSTPH-P044(035)E

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in SHASTA COUNTY NEAR LASSEN PARK FROM 6.3 km EAST OF ROUTE 89 TO 0.6 km WEST OF LOST CAMP ROAD.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on August 2, 2000.

This addendum is being issued to revise the Notice to Contractors and Special Provisions.

In the Special Provisions, Section 5-1.14, "RELATIONS WITH UNITED STATES FOREST SERVICE," is added as attached.

In the Special Provisions, Section 5-1.15, "FIRE PLAN," is added as attached.

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the following paragraph is added after the second paragraph:

"Attention is directed to "Clearing and Grubbing" of these special provisions regarding the sale of timber."

In the Special Provisions, Section 10-1-06, "MAINTAINING TRAFFIC," the seventh paragraph is revised as follows and the eighth paragraph is deleted:

"During construction operations, the road may be closed and public traffic stopped for periods not to exceed 10 minutes. After each closure, accumulated traffic shall pass through the work before another closure is made."

In the Special Provisions, Section 10-1.15, "CLEARING AND GRUBBING," the following paragraph is added after the first paragraph:

"Prior to the Contractor beginning work on this project the US Forest Service will administer a separate timber sale contract within the project limits. The purchaser of the timber sale contract will remove all trees within the grading limits greater than 250 mm in diameter. Stumps and slash resulting from this work will be left in place. Removal of the stumps and slash shall be done by the Contractor."

In the Special Provisions, Section 10-1.20, "EROSION CONTROL (GYPSUM MATTE)," is revised as attached.

In the Special Provisions, Section 10-1.23, "ASPHALT CONCRETE," the Profile Index requirements from paragraphs nineteen to twenty-nine are deleted.

Addendum No. 1  
Page 2  
July 24, 2000

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To Proposal and Contract book holders:

Attached is a copy of the Material Information, United States Forest Service Special Use Permit and Exhibits.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the proposal.

Submit bids in the Proposal and Contract book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This office is sending this addendum by UPS overnight mail to Proposal and Contract book holders to ensure that each receives it.

If you are not a Proposal and Contract book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,

ORIGINAL SIGNED BY

NICK YAMBAO, Chief  
Office of Plans, Specifications & Estimates  
Division of Office Engineer

Attachments

#### **5-1.14 RELATIONS WITH UNITED STATES FOREST SERVICE**

The location of the project is within National Forest land controlled by the USDA Forest Service. The Forest Service has issued special use permit and construction stipulations covering work to be performed under this contract. The Contractor shall be fully informed of rules, regulations, and conditions that may govern the Contractor's operations in the areas and shall conduct the work accordingly.

Copies of the special use permit and construction stipulations may be obtained at the Department of Transportation, Plans and Bid Documents Section, MS 26, 1120 N Street, Room 200, Sacramento, CA 95814, Telephone 916-654-4490, and are available for inspection at the Northern Region Construction Office at 961 Live Oak Boulevard, Yuba City, California 95991.

Attention is directed to Section 7-1.11, "Preservation of Property," and Section 7-1.12, "Indemnification and Insurance," of the Standard Specifications.

Attention is directed to Section 8-1.06, "Time of Completion," of the Standard Specifications. Days when the Contractor's operations are restricted by the requirements of this section shall not be considered to be nonworking days whether or not the controlling operation is delayed.

Full compensation for complying with the requirements of the construction stipulations of the US Forest Service shall be considered as included in the contract prices paid for the various items of work involved and no additional compensation will be allowed therefor.

### 5-1.15 FIRE PLAN

The Contractor shall cooperate with local fire prevention authorities in eliminating hazardous fire conditions and shall implement the following fire plan under the direction of the Engineer:

- A. The Contractor shall be responsible for:
  1. obtaining the phone number of the nearest fire suppression agency and providing this phone number to the Engineer as a first order of work,
  2. immediately reporting to the nearest fire suppression agency fires occurring within the limits of the project,
  3. preventing project personnel from setting open fires not part of the work, unless the Fire Index is at "Low," or the determination of the Fire Index is suspended or, if in an area not covered by the Fire Index rating system, the Engineer determines that the fire hazard is negligible,
  4. preventing the escape of fires caused directly or indirectly as a result of project operations and extinguishing these fires.
- B. Except for motor trucks, truck tractors, buses and passenger vehicles, the Contractor shall equip all hydro-carbon fueled engines, both stationary and mobile, including motorcycles, with spark arresters that meet United States Forest Service Standards as specified in the Forest Service Spark Arrester Guide and shall maintain the spark arresters in good operating condition. Spark arresters are not required by the State Department of Forestry or the United States Forest Service on equipment powered by properly maintained exhaust-driven turbo-charged engines or when equipped with scrubbers with properly maintained water levels. The Forest Service Spark Arrester Guide is available at the District Offices of the Department of Transportation.
- C. Toilets shall have a metal receptacle, at least 150 mm in diameter by 200 mm deep, half-filled with sand for ashes and discarded smokes, and within easy reach of anyone utilizing the facility.
- D. Equipment service areas, parking areas and gas and oil storage areas shall be located so that there is no flammable material within a radius of at least 15 m of these areas. Small mobile or stationary engine sites shall be cleared of flammable material for a radius of at least 4.6 m from the engine.
- E. The areas to be cleared and grubbed shall be cleared, and kept clear of, flammable material such as dry grass, weeds, brush, downed trees, oily rags and waste, paper, cartons, and plastic waste. The first order of work shall be to clear a fire break at the outer limits of the areas to be cleared and grubbed. Other fire breaks may be ordered by the Engineer and will be paid for as extra work as provided in Section 4-1.03D of the Standard Specifications.
- F. The Contractor shall furnish each piece of equipment with the following:
  1. one shovel and one fully charged fire extinguisher UL rated at 4 B:C or more on each truck, personnel vehicle tractor, grader or other heavy equipment,
  2. one shovel and one back-pack 20-L water-filled tank with pump for each welder,
  3. one shovel or one chemical pressurized fire extinguisher, fully charged, for each gasoline-powered tool, including but not limited to chain saws, soil augers, rock drills, etc. The required fire tools shall, at no time, be farther than 8 m from the point of operation of the power tool. Fire extinguishers shall be of the type and size required by the California Public Resource Code, Section 4431, and the California Administrative Code, Title 14, Section 1234,
  4. shovels shall be size "O" or larger and shall be not less than 1.2 m in length.
- G. The Contractor shall furnish a pickup truck and driver that will be available for fire control during working hours and as specified herein.
  1. The truck shall be equipped with 10 shovels, 5 axes, 2 back-pack 20-L water-filled tanks with pumps, 2 serviceable chainsaws, or other fire tools substituted on a one to one basis at the option of the Contractor and approved by the Engineer.
  2. The truck shall be equipped with a 380-L tank of water with a gasoline motor powered pump and 30 m of 19-mm hose on a reel.
  3. In addition to being available at the site of the work, the truck and operator shall patrol the area of construction for not less than one-half hour after the shutdown of the work.

H. The Contractor shall be aware of the Sale Activity Level and conform to the following:

1. The Contractor's operations shall conform to the limitations or requirements of Sale Activity Levels. Activity level is the measure of fire weather conditions.
2. Activity level applicable to this project shall be for the Fuel Model J and Manzanita Lake weather station.
3. Contractor shall obtain predicted activity level information daily. Such data shall be provided by 4:00 p.m., if at all feasible, by calling the Hat Creek US Forest Service District Office at (530) 336-5521. The Forest Service may promptly notify the Contractor of any measured activity level change that affects the Contractor's operations. In all cases, the actual weather elements shall govern over the predicted weather elements in determining Sale Activity Level.
4. When the Activity Level reaches level 4 the following conditions will prevail:

Falling of dead trees or snags shall be discontinued.
No open burning will be permitted; fires shall be extinguished.
Welding shall be discontinued except in an enclosed building or within an area cleared of flammable material for a radius of 4.6 m.
Blasting shall be discontinued.
Smoking will be permitted only in automobiles and cabs of trucks equipped with an ashtray or in cleared areas immediately surrounded by a fire break, unless prohibited by other authority.
Vehicular travel will be restricted to cleared areas except in case of emergency.

5. When the Activity Level reaches level 5 the following precautions shall be taken in addition to the conditions specified above:

Work of a nature which could start a fire shall require that properly equipped fire guard(s) be assigned to such an operation for the duration of the work.
Smoking will be permitted only in automobiles and truck cabs equipped with an ashtray, unless prohibited by other authority.

If the project is shut down or partially shut down on account of hazardous fire conditions, working days during such period will be determined in the same manner as provided in Section 8-1.06, "Time of Completion," of the Standard Specifications for shutdowns due to weather.

Full compensation for conforming to the provisions herein shall be considered as included in the prices paid for the various contract items of work and no separate payment will be made therefor.

**10-1.20 EROSION CONTROL (GYPSUM MATTE)**

Erosion control (Gypsum Matte) shall conform to the provisions in Section 20-3, "Erosion Control," of the Standard Specifications and these special provisions.

Erosion control (Gypsum Matte) work shall consist of applying erosion control materials to embankment and excavation slopes and other areas disturbed by construction activities. Erosion control (Gypsum Matte) shall be applied during the period starting August 15 and ending October 15; or, if the slope on which the erosion control is to be placed is finished during the winter season as specified in "Water Pollution Control" of these special provisions, the erosion control shall be applied immediately; or, if the slope on which the erosion control is to be placed is finished outside both specified periods and the contract work will be completed before September 15, the erosion control shall be applied as a last item of work.

Prior to installing erosion control materials, soil surface preparation shall conform to the provisions in Section 19-2.05, "Slopes," of the Standard Specifications, except that rills and gullies exceeding 50 mm in depth or width shall be leveled. Vegetative growth, temporary erosion control materials and other debris shall be removed from areas to receive erosion control.

Erosion control (Gypsum Matte) shall consist of applying seed, straw, fiber, compost, and gypsum to excavation slopes, embankment slopes, and other areas as directed by the Engineer.

**MATERIALS**

Materials shall conform to the provisions in Section 20-2, "Materials," of the Standard Specifications and these special provisions.

**Seed**

Seed shall conform to the provisions in Section 20-2.10, "Seed," of the Standard Specifications. Individual seed species shall be measured and mixed in the presence of the Engineer.

Seed shall be delivered to the project site in unopened separate containers with the seed tag attached. Containers without a seed tag attached will not be accepted.

A sample of approximately 30 g of seed will be taken from each seed container by the Engineer.

**Legume Seed**

Legume seed shall be pellet-inoculated or industrial-inoculated and shall conform to the following:

- A. Inoculated seed shall be inoculated in conformance with the provisions in Section 20-2.10, "Seed," of the Standard Specifications.
- B. Inoculated seed shall have a calcium carbonate coating.
- C. Industrial-inoculated seed shall be inoculated with Rhizobia and coated using an industrial process by a manufacturer whose principal business is seed coating and seed inoculation.
- D. Industrial-inoculated seed shall be sown within 180 calendar days after inoculation.
- E. Legume seed shall consist of the following:

**LEGUME SEED**

Botanical Name (Common Name)	Percent Germination (Minimum)	Kilograms Pure Live Seed Per Hectare (Slope Measurement)
Lotus purshianus (Purshings Lotus)	40	3.0
Lupinus argenteus var. heteranthus (Silvery lupine)	30	1.0

### Non-Legume Seed

Non-legume seed shall consist of the following:

#### NON-LEGUME SEED

Botanical Name (Common Name)	Percent Germination (Minimum)	Kilograms Pure Live Seed Per Hectare (Slope Measurement)
Elymus glaucus "Shasta/Trinity" (Shasta/Trinity blue wildrye)	40	8.0
* Festuca idahoensis (Bluebunch Grass)	50	5.0
* Bromus carinatus var. Carinatus (California Brome)	55	10.0
* Elymus elymoides (Bottlebrush Squirreltail)	40	3.0
* Poa secunda (Pine Bluegrass)	40	2.0
Triticum elymus X Wheat "Sterile wheatgrass"	50	8.0

\* Native California seed gene pool originating from Lassen, Modoc, or Plumas Counties at similar elevations as this project.

### Straw

Straw shall conform to the provisions in Section 20-2.06, "Straw," of the Standard Specifications and these special provisions.

Straw shall be derived from wheat or barley. Straw shall be certified noxious weed free by the county of origin.

Wheat and barley straw shall not be derived from dry farmed cereal crops.

Prior to delivery of wheat or barley straw to the project site, the Contractor shall provide the date of harvest and the name, address and telephone number of the grower.

### Compost

Compost shall be derived from green material consisting of chipped, shredded or ground vegetation or clean processed recycled wood products or a Class A, exceptional quality biosolids composts, as required by the United States Environmental Protection Agency (EPA), 40 CFR, Part 503c regulations or a combination of green material and biosolids compost. The compost shall be processed or completed to reduce weed seeds, pathogens and deleterious material, and shall not contain paint, petroleum products, herbicides, fungicides or other chemical residues that would be harmful to plant or animal life. Other deleterious material, plastic, glass, metal or rocks shall not exceed 0.1 percent by weight or volume. A minimum internal temperature of 57°C shall be maintained for at least 15 continuous days during the composting process. The compost shall be thoroughly turned a minimum of 5 times during the composting process and shall go through a minimum 90-day curing period after the 15-day thermophilic compost process has been completed. Compost shall be screened through a maximum 6 mm screen. The moisture content of the compost shall not exceed 35 percent. Moisture content shall be determined by California Test 226. Compost products with a higher moisture content may be used provided the weight of the compost is increased to equal the compost with a moisture content of 35 percent. Compost will be tested for maturity and stability with a solvita test kit. The compost shall measure a minimum of 6 on the maturity and stability scale.

### Gypsum

Gypsum shall consist of a naturally occurring high purity processed gypsum and necessary additives, such as retarders and accelerators and water to formulate a cementitious binder that will produce a protective crust like barrier within 4 to 8 hours after application. Gypsum shall be produced from a quarried or mined source and shall be processed to be composed of a crushed, dry calcium sulfate hemihydrate (CA SO<sub>4</sub>.1/2 H<sub>2</sub>O) having a purity of not less than 88%. Gypsum which has become partially air set, lumpy, or caked prior to use will be rejected.

**APPLICATION**

Erosion control (Gypsum Matte) shall be applied in 3 separate applications as follows:

The following mixture in the proportions indicated shall be applied with hydro-seeding equipment within 30 minutes after the seed has been added to the mixture:

Material	Kilograms Per Hectare (Slope Measurement)
Fiber	400
Non-Legume Seed	36
Legume Seed	4
Gypsum	1000
Compost	1200

Straw shall be applied at the rate of 4.0 tonnes per hectare based on slope measurements. Incorporation of straw will not be required.

The following mixture in the proportions indicated shall be applied with hydro-seeding equipment:

Material	Kilograms Per Hectare (Slope Measurement)
Fiber	600
Compost	1800
Gypsum	1500

Once straw work is started in an area, stabilizing emulsion applications shall be completed in that area on the same working day.

The proportions of erosion control materials may be changed by the Engineer to meet field conditions.

**MEASUREMENT AND PAYMENT**

The quantity of pure live seed (erosion control) to be paid for by the kilogram will be determined by multiplying the percentage of purity by the percentage of germination by the marked mass on the sack.

Pure live seed (erosion control) will be paid for by the kilogram in the same manner specified for seed in Section 20-3.07 of the Standard Specifications.

Compost (erosion control) will be paid for by the kilogram in the same manner specified for commercial fertilizer in Section 20-3.07 of the Standard Specifications.

Gypsum (erosion control) will be paid for by the kilogram in the same manner specified for stabilizing emulsion in Section 20-3.07 of the Standard Specifications.