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**** WARNING ** WARNING ** WARNING ** WARNING ****
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November 23, 2005

04-Sol-680-R2.3/21.1
04-258714
ACIM-680-2(349) E

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in SOLANO COUNTY IN AND NEAR BENICIA AND FAIRFIELD FROM BENICIA VIADUCT TO ROUTE 680/80 SEPARATION.

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 December 6, 2005.

This addendum is being issued to revise the Project Plans, the Notice to Contractors and Special Provisions, and the Proposal and Contract.

Project Plan Sheet 1 is revised. Half-sized copies of the revised sheet is attached for substitution for the like-numbered sheet.

Project Plan Sheets 64A and 152A are added. Half-sized copies of the added sheets are attached for addition to the project plans.

In the Special Provisions, in the STANDARD PLANS LIST, the following Standard Plans are added:

- "H1 Planting and Irrigation - Abbreviations
- H2 Planting and Irrigation – Symbols
- H3 Planting and Irrigation Details
- H4 Planting and Irrigation Details"

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In the Special Provisions, Section 4, "BEGINNING OF WORK, TIME OF COMPLETION AND LIQUIDATED DAMAGES," is revised as attached.

In the Special Provisions, Section 5-1.16, "PAYMENTS," is revised as attached.

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," is revised as attached.

In the Special Provisions, Section 10-1.065, "PRESERVATION OF PROPERTY," is added as attached.

In the Special Provisions, Section 10-1.25, "EROSION CONTROL (TYPE D)," is revised as attached.

In the Special Provisions, Section 10-1.255, "FIBER ROLLS," is added as attached.

In the Special Provisions, Section 10-2. "(BLANK)," is replaced with Section 10-2, "HIGHWAY PLANTING AND IRRIGATION SYSTEMS," as attached.

In the Proposal and Contract, the Engineer's Estimate Items 28, 29, and 30 are revised, Items 73, 74, 75, 76, 77, 78, 79, 80 and 81 are added, and Items 32 and 72 are deleted as attached.

To Proposal and Contract book holders:

Replace pages 4 and 6 of the Engineer's Estimate in the Proposal with the attached revised pages 4 and 6 of the Engineer's Estimate. Add page 6A. The revised Engineer's Estimate is to be used in the bid.

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the NOTICE TO CONTRACTORS section of the Notice to Contractors and Special Provisions.

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. A copy of this addendum is available for the contractor's use on the Internet Site:

http://www.dot.ca.gov/hq/esc/oe/weekly_ads/addendum_page.html

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

REBECCA D. HARNAGEL, Chief
Office of Plans, Specifications & Estimates
Office Engineer

Attachments

SECTION 4. BEGINNING OF WORK, TIME OF COMPLETION AND LIQUIDATED DAMAGES

Attention is directed to the provisions in Section 8-1.03, "Beginning of Work," in Section 8-1.06, "Time of Completion," and in Section 8-1.07, "Liquidated Damages," of the Standard Specifications and these special provisions.

The Contractor shall furnish the Engineer with a statement from the vendor that the order for the electrical materials required for this contract has been received and accepted by the vendor; and the statement shall be furnished within 15 calendar days after the contract has been approved by the Attorney General, or the attorney appointed and authorized to represent the Department of Transportation. The statement shall give the date that the electrical materials will be shipped. If the Contractor has the necessary materials on hand, the Contractor will not be required to furnish the vendor's statement.

The 72 hours advance notice before beginning work specified in Section 8-1.03, "Beginning of Work," of the Standard Specifications is changed to 5 days advance notice for this project.

The work (except plant establishment work) shall be diligently prosecuted to completion before the expiration of **150 WORKING DAYS** beginning on the fifteenth calendar day after approval of the contract.

The Contractor shall pay to the State of California the sum of \$ 9000 per day, for each and every calendar day's delay in finishing the work (except plant establishment work) in excess of **150 WORKING DAYS**.

The Contractor shall diligently prosecute all work (including plant establishment) to completion before the expiration of **190 WORKING DAYS** beginning on the fifteenth calendar day after approval of the contract.

The Contractor shall pay to the State of California the sum of \$600 per day, for each and every calendar day's delay in completing the work in excess of **190 WORKING DAYS**.

In no case will liquidated damages of more than \$ 9000 per day be assessed.

5-1.16 PAYMENTS

Attention is directed to Sections 9-1.06, "Partial Payments," and 9-1.07, "Payment After Acceptance," of the Standard Specifications and these special provisions.

For the purpose of making partial payments pursuant to Section 9-1.06, "Partial Payments," of the Standard Specifications, the amount set forth for the contract items of work hereinafter listed shall be deemed to be the maximum value of the contract item of work which will be recognized for progress payment purposes:

A. Develop Water Supply	\$16,200
B. Roadside Clearing	\$75,500
C. Prepare Storm Water Pollution Prevention Plan	\$12,150
D. Progress Schedule (Critical Path Method)	\$10,000

After acceptance of the contract pursuant to the provisions in Section 7-1.17, "Acceptance of Contract," of the Standard Specifications, the amount, if any, payable for a contract item of work in excess of the maximum value for progress payment purposes hereinabove listed for the item, will be included for payment in the first estimate made after acceptance of the contract.

In determining the partial payments to be made to the Contractor, only the following listed materials will be considered for inclusion in the payment as materials furnished but not incorporated in the work:

- A. Culvert pipe
- B. Steel pipe underdrain
- C. Miscellaneous drainage facilities
- D. Railing and terminal systems
- E. Lighting fixtures

10-1.01 ORDER OF WORK

Order of work shall conform to the provisions in Section 5-1.05, "Order of Work," of the Standard Specifications and these special provisions.

Attention is directed to "Roadside Clearing," "Highway Planting," Erosion Control (Type D)," and "Plant Establishment Work" of these special provisions.

Contractor shall notify the Engineer not less than 16 days prior to the anticipated start of work for the following operations:

Work that changes the width of the traveled way or shoulders, except for lane and shoulder closures delineated by traffic cones conforming to the details for lane closures in the Standard Plans.

Work that requires closures of ramps and connector lanes.

Work that changes the vertical clearance over the traveled way and shoulder.

When public traffic is directed to use a detour.

When performing any work in the vicinity of existing Service Authority for Freeways and Expressways (SAFE) call boxes.

If during any subsurface disturbance or pavement removal, human skeletal remains are encountered, the Contractor's construction activities, within ten meters shall be halted immediately and shall not be resumed until permitted in writing by the Engineer. All provisions of the Health and Safety Code 7054 and 7050.5 and the Public Resources Code 5097.9 through 5097.99 shall be followed. The California Public Resources Code Section 5097.98 and 5097.99 require protection of Native American remains, which may be found, and outline procedures for handling any burials found.

Should archaeological remains of an otherwise unanticipated archaeological nature be uncovered, the Engineer or his representative can stop the work in the area of discovery until the significance of the find can be evaluated. If, in the opinion of the Engineer, the Contractor's operations are delayed or interfered with by the reason of an unanticipated archaeological discovery, the State will compensate the Contractor for such delays to the extent provided in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

Attention is directed to "Environmentally Sensitive Area" and "Temporary Fence (Type ESA)" of these special provisions. Prior to beginning work, the boundaries of the Environmentally Sensitive Areas (ESA) shall be clearly delineated in the field. The boundaries shall be delineated by the installation of temporary fence (Type ESA).

Attention is directed to "Water Pollution Control" of these special provisions regarding the submittal and approval of the Storm Water Pollution Prevention Plan prior to performing work having potential to cause water pollution.

The first order of work shall be to place the order for the lighting equipment. The Engineer shall be furnished a statement from the vendor that the order for the traffic signal equipment has been received and accepted by the vendor.

At the end of each working day if a difference in excess of 0.046-meter exists between the elevation of the existing pavement and the elevation of excavations within 2.4 m of the traveled way, material shall be placed and compacted against the vertical cuts adjacent to the traveled way. During excavation operations, native material may be used for this purpose; however, once placing of the structural section commences, structural material shall be used. The material shall be placed to the level of the elevation of the top of existing pavement and tapered at a slope of 1:4 (vertical:horizontal) or flatter to the bottom of the excavation. Full compensation for placing the material on a 1:4 slope, regardless of the number of times the material is required, and subsequent removing or reshaping of the material to the lines and grades shown on the plans shall be considered as included in the contract price paid for the materials involved and no additional compensation will be allowed therefor. No payment will be made for material placed in excess of that required for the structural section.

At those locations exposed to public traffic where guard railings are to be constructed or removed the Contractor shall schedule operations so that at the end of each working day there shall be no post holes open nor shall there be any railing posts installed without the blocks and rail elements assembled and mounted thereon.

Some plants and seeds required for this project may not be readily available and may have to be grown specifically for this project. Within 15 days after the contract has been approved, the Contractor shall furnish the Engineer a statement from the vendor that the order for the plants to be grown for this contract, including inspection plants and replacement plants, has been received and accepted by the vendor. The statement from the vendor shall include the names, sizes, genetic origin, start dates, and quantities of plants ordered and the anticipated dates of delivery. The Contractor shall notify the Engineer, in writing, when the vendor has started to grow the plants. The start of growing and collecting (propagation) plants shall occur no later than 30 days after the contract has been approved.

Not less than 60 days prior to planting the plants, the Contractor shall furnish the Engineer a statement from the vendor that the order for the plants required for this contract, including inspection plants, has been received and accepted by the vendor. The statement from the vendor shall include the names, sizes, and quantities of plants ordered and the anticipated date of delivery.

The Contractor shall place orders for replacement plants with the vendor at the appropriate time so that the roots of the replacement plants are not in a root-bound condition.

Not less than 60 days prior to applying seeds, the Contractor shall furnish the Engineer a statement from the vendor that the order for the seed required for this contract has been received and accepted by the vendor. The statement from the vendor shall include the names and quantity of seed ordered and the anticipated date of delivery.

Attention is directed to "Highway Planting," of these special provisions regarding the application of Erosion Control (Type D) materials prior to planting plants (group A).

10-1.065 PRESERVATION OF PROPERTY

Attention is directed to Section 7-1.11, "Preservation of Property," of the Standard Specifications and these special provisions.

Existing trees, shrubs and other plants, that are not to be removed as shown on the plans, in Environmentally Sensitive Areas (ESA), or specified in these special provisions, and are injured or damaged by reason of the Contractor's operations, shall be replaced by the Contractor. The minimum size of tree replacement shall be 610 mm box and the minimum size of shrub replacement shall be No. 15 container. Replacement planting shall conform to the requirements in Section 20-4.07, "Replacement," of the Standard Specifications. The Contractor shall water replacement plants in conformance with the provisions in Section 20-4.06, "Watering," of the Standard Specifications.

Damaged or injured plants shall be removed and disposed of outside the highway right of way in conformance with the provisions in Section 7-1.13 of the Standard Specifications. At the option of the Contractor, removed trees and shrubs may be reduced to chips. The chipped material shall be spread within the highway right of way at locations designated by the Engineer.

Replacement planting of injured or damaged trees, shrubs, and other plants shall be completed prior to the start of the plant establishment period. Replacement planting shall conform to the provisions in Section 20-4.05, "Planting," of the Standard Specifications.

10-1.25 EROSION CONTROL (TYPE D)

Erosion control (Type D) shall conform to the provisions in Section 20-3, "Erosion Control," of the Standard Specifications and these special provisions and shall consist of applying erosion control materials to embankment and excavation slopes and other areas disturbed by construction activities. Erosion control (Type D)—Woody Mix shall be applied to project excavation slopes. Erosion control (Type D)—Grass Mix shall be applied to project embankment slopes and other disturbed soil areas.

Erosion control (Type D) shall be applied when an area is ready to receive erosion control as determined by the Engineer and in conformance with the provisions in "Move-in/Move-out (Erosion Control)" of these special provisions.

If the slope on which the erosion control is to be placed is finished during the rainy season as specified in "Water Pollution Control" of these special provisions, the erosion control shall be applied immediately to the slope.

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.

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--Grass Mix shall consist of the following:

LEGUME SEED—GRASS MIX

Botanical Name (Common Name)	Percent Germination (Minimum)	Kilograms Pure Live Seed Per Hectare (Slope Measurement)
* Lotus purshianus (Purshings Lotus)	40	5

* California native seed source.

- F. Legume seed--Woody Mix shall consist of the following:

LEGUME SEED—WOODY MIX

Botanical Name (Common Name)	Percent Germination (Minimum)	Kilograms Pure Live Seed Per Hectare (Slope Measurement)
* Lotus purshianus (Purshings Lotus)	40	5

* California native seed source.

Non-Legume Seed

A. Non-legume seed--Grass Mix shall consist of the following:

NON-LEGUME SEED—GRASS MIX

Botanical Name (Common Name)	Percent Germination (Minimum)	Kilograms Pure Live Seed Per Hectare (Slope Measurement)
* Festuca rubra, Molate (Molate Red Fescue)	40	9
*Hordeum californicum California Barley Prostrate	40	8
* Nassella cernua (Nodding Needlegrass)	40	10
* Nassella pulchra (Purple Needlegrass)	40	8

* California native seed source.

B. Non-legume seed--Woody Mix shall consist of the following:

NON-LEGUME SEED—WOODY MIX

Botanical Name (Common Name)	Percent Germination (Minimum)	Kilograms Pure Live Seed Per Hectare (Slope Measurement)
*Hordeum californicum California Barley Prostrate	40	8
* Nassella cernua (Nodding Needlegrass)	40	10
*Salvia mellifera (Black Sage)	30	3
*Artemisia californica (California sagebrush)	25	1
*Baccharis pilularis (Coyote Brush)	15	0.10
* Eriogonum fasciculatum (California Buckwheat)	30	2
* Leymus triticoides (Creeping wildrye)	35	5
*Adenostoma fasciculatum (Chamise)	10	6

* California native seed source.

Fiber

Fiber shall be made up of cellulose (paper) fiber, and conform to the following:

Cellulose fiber shall conform to the provisions in Section 20-2.07, "Fiber," of the Standard Specifications and these special provisions. Cellulose fiber shall be produced from natural or recycled (pulp) fiber, such as wood chips or sawdust or from newsprint, chipboard, corrugated cardboard or a combination of these processed materials and shall be free of synthetic or plastic materials. Cellulose fiber shall not contain more than 7 percent ash.

Commercial Fertilizer

Commercial fertilizer shall conform to the provisions in Section 20-2.02, "Commercial Fertilizer," of the Standard Specifications and shall have a guaranteed chemical analysis of 6-7 percent nitrogen, 1-2 percent phosphoric acid and 3-4 percent water soluble potash. Commercial fertilizer shall be: 100 percent natural, slow release, with 70 percent organic substance (min.), sterilized, and free of weed seed.

Straw

Straw shall be derived from rice.

Straw shall be free of plastic, glass, metal, rocks, and refuse or other deleterious material.

Compost

Compost shall be Class A , exceptional quality biosolids composts, conforming to the requirements in United States Environmental Protection Agency (EPA) regulation 40 CFR, Part 503c.

Compost shall not contain paint, petroleum products, herbicides, fungicides or other chemical residues harmful to plant or animal life. Other deleterious material, plastic, glass, metal or rock shall not exceed 0.1-percent by weight or volume.

Compost shall be thermophilically processed for 15 days. During this process, the compost shall be maintained at minimum internal temperature of 55°C and be thoroughly turned at least 5 times. A 90-day curing period shall follow the thermophilic process.

Compost shall be screened through a screen no larger than 12 mm.

Compost shall measure at least 6 on the maturity and stability scale with a Solvita test kit.

A Certificate of Compliance for compost shall be furnished to the Engineer in conformance with the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications. The Certificate of Compliance shall state the Solvita maturity and stability scale test result of the compost.

Stabilizing Emulsion

Stabilizing emulsion shall conform to the provisions in Section 20-2.11, "Stabilizing Emulsion," of the Standard Specifications and these special provisions.

Stabilizing emulsion shall be in a dry powder form, may be reemulsifiable, and shall be a processed organic derivative of *Plantago ovata* adhesive used as a soil tackifier.

APPLICATION

Erosion control materials shall be applied in a three step application, in the following sequence:

A. The following mixture in the rates indicated shall be applied with hydro-seeding equipment within 60 minutes after the seed has been added to the mixture:

Material	Kilograms Per Hectare (Slope Measurement)
Legume Seed	5-Grass / 5-Woody
Non-Legume Seed	35-Grass / 35.1-Woody
Fiber	500
Commercial Fertilizer	500

Material	Cubic Meter Per Hectare (Slope Measurement)
Compost	10

B. Straw shall be applied at the rate of 4_ tonnes per hectare based on slope measurements. Incorporation of straw will not be required. Straw shall be distributed evenly without clumping or piling.

C. The following mixture in the rates indicated shall be applied with hydro-seeding equipment:

Material	Kilograms Per Hectare (Slope Measurement)
Fiber	500
Stabilizing Emulsion (Solids)	150

The ratio of total water to total stabilizing emulsion in the mixture shall be as recommended by the manufacturer.

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

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

MEASUREMENT AND PAYMENT

Compost (erosion control) will be measured by the cubic meter in the vehicle at the point of delivery in conformance with the provisions in Section 9-1.01, "Measurement of Quantities," of the Standard Specifications.

The contract price paid per cubic meter for compost (erosion control) shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in applying compost for erosion control, complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

10-1.255 FIBER ROLLS

Fiber rolls shall conform to the details shown on the plans and these special provisions.

MATERIALS

Fiber rolls shall consist of one of the following:

- A. Fiber rolls shall be constructed on the project site with manufactured blankets consisting of one or a combination of wood excelsior, rice, wheat or coconut fibers. The blanket shall measure approximately 3.5 m wide by 26 m to 29 m in length. Wood excelsior material shall have individual fibers, 80 percent of which shall be 150 mm or longer in fiber length. The blanket shall have a photodegradable plastic netting. The blanket shall be rolled on the blanket's width and secured with jute twine spaced 2 m apart along the roll for the full length and 150 mm from each end of the individual rolls. The blanket shall be rolled so that the netting is on the outside of the finished roll. The finished roll diameter shall be a minimum of 175 mm and a maximum of 225 mm and shall weigh not less than 1.3 kg/m.
- B. Fiber rolls shall be pre-manufactured rice or wheat straw, wood excelsior or coconut fiber rolls encapsulated within a photodegradable plastic netting. Each roll shall be a minimum of 175 mm and a maximum of 225 mm in diameter and 7 m to 9 m in length and shall weigh not less than 1.3 kg/m. The netting shall be ultraviolet (UV) degradable plastic. The netting shall have a minimum durability of one year after installation. The netting shall be secured tightly at each end of the individual rolls.
- C. Stakes shall be fir or pine and shall be a minimum of 25 mm x 25 mm x 600 mm in length. Metal stakes may be used as an alternative. The Contractor shall submit a sample of the metal stake to the Engineer prior to installation. The tops of the metal stakes shall be bent over at a 90-degree angle. No additional compensation will be allowed for the use of a metal stake.

INSTALLATION

Fiber rolls shall be joined tightly together to form a single linear roll that is installed approximately parallel to the slope contour. Fiber rolls shall be installed prior to the application of other erosion control materials.

Furrows shall be constructed along the slope contour as shown on the plans, to a depth of 50 mm to 100 mm, and at a sufficient width to hold the fiber rolls.

Rolls shall be installed as shown on the plans. Individual rolls shall be placed with adjacent ends butted firmly to each other to create a continuous linear roll.

Stakes shall be installed 1.0 m apart along the total length of the rolls and 125 mm from the end of each individual roll. Stakes shall be driven flush or a maximum of 50 mm above the roll.

MEASUREMENT AND PAYMENT

Fiber rolls will be measured by the meter from end to end along the centerline of the installed rolls.

The contract price paid per meter for fiber rolls shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in installing fiber rolls, complete in place, including stakes, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

SECTION 10-2 HIGHWAY PLANTING AND IRRIGATION SYSTEMS

10-2.01 GENERAL

The work performed in connection with highway planting and roadside clearing, tree removal, and tree pruning shall conform to the provisions in Section 20, "Erosion Control and Highway Planting," of the Standard Specifications and these special provisions.

PROGRESS INSPECTIONS

Progress inspections will be performed by the Engineer for completed highway planting work at designated stages during the life of the contract.

Progress inspections will not relieve the Contractor of responsibility for installation in conformance with the special provisions, plans and Standard Specifications. Work within an area shall not progress beyond each stage until the inspection has been completed, corrective work has been performed, and the work is approved, unless otherwise permitted by the Engineer.

The requirements for progress inspections will not preclude additional inspections of work by the Engineer at other times during the life of the contract.

The Contractor shall notify the Engineer, in writing, at least 4 working days prior to completion of the work for each stage of an area and shall allow a minimum of 3 working days for the inspection.

Progress inspections will be performed at the following stages of work:

- A. Before planting begins and after completion of the work specified for planting in Section 20-4.03, "Preparing Planting Areas," of the Standard Specifications.
- B. Before plant establishment work begins and after completion of the work specified for planting in Section 20-4.05, "Planting," of the Standard Specifications.
- C. At intervals of one month during the plant establishment period.

COST BREAK-DOWN

The Contractor shall furnish the Engineer a cost break-down for the contract lump sum item of highway planting. The cost break-down table shall be submitted to the Engineer for approval within 30 working days after the contract has been approved. The cost break-down table shall be approved, in writing, by the Engineer before any partial payment will be made for the item of highway planting.

Attention is directed to "Time-Related Overhead" of these special provisions regarding compensation for time-related overhead.

The cost break-down shall be completed and furnished in the format shown in the sample of the cost break-down included in this section. Line item descriptions of work shown in the samples are the minimum to be submitted. Additional line item descriptions of work may be designated by the Contractor. If the Contractor elects to designate additional line item descriptions of work, the quantity, value and amount for those line items shall be completed in the same manner as for the line item descriptions shown in the samples. The line items and quantities given in the sample are to show the manner of preparing the cost break-down to be furnished by the Contractor.

The Contractor shall determine the quantities required to complete the work shown on the plans. The quantities and their values shall be included in the cost break-down submitted to the Engineer for approval. The Contractor shall be responsible for the accuracy of the quantities and values used in the cost break-down submitted for approval.

The sum of the amounts for the line items of work listed in the cost break-down table for highway planting work shall be equal to the contract lump sum price bid for the work. Overhead and profit, except for time-related overhead, shall be included in each individual line item of work listed in the cost break-down table.

No adjustment in compensation will be made in the contract lump sum price paid for highway planting due to differences between the quantities shown in the cost break-down table furnished by the Contractor and the quantities required to complete the work as shown on the plans and as specified in these special provisions.

Individual line item values in the approved cost break-down table will be used to determine partial payments during the progress of the work and as the basis for calculating an adjustment in compensation for the contract lump sum item of highway planting due to changes in line items of work ordered by the Engineer. When the total value of ordered changes to line items of work increases or decreases the lump sum price bid for highway planting by more than 25 percent, the adjustment in compensation will be determined in the same manner specified for increases and decreases in the total pay quantity of an item of work in Section 4-1.03B, "Increased or Decreased Quantities," of the Standard Specifications.

HIGHWAY PLANTING COST BREAK-DOWN

Contract No. 04-258714

UNIT DESCRIPTION	UNIT	APPROXIMATE QUANTITY	VALUE	AMOUNT
PLANT (GROUP A)	EA	50		
ROOT PROTECTOR	EA	50		
FOLIAGE PROTECTOR	EA	50		
MULCH	M3	12		
COMMERCIAL FERTILIZER (SLOW RELEASE)	KG	1.5		
TIME RELEASE WATER ASSEMBLY	EA	500		

TOTAL _____

10-2.02 EXISTING HIGHWAY PLANTING

In addition to the provisions in Section 20, "Erosion Control and Highway Planting," of the Standard Specifications, work performed in connection with existing highway planting shall conform to the provisions in "Existing Highway Facilities," of these special provisions.

Replacement planting shall conform to the provisions in "Preservation of Property" of these special provisions.

PRUNE EXISTING PLANTS

Existing plants, as determined by the Engineer and Landscape Architecture representative, shall be pruned. Pruning of the existing plants, except as otherwise provided in these special provisions, will be paid for as extra work as provided in Section 4-1.03D of the Standard Specifications.

TREE REMOVAL PLAN

The Contractor shall prepare a Tree Removal Plan for review by the Engineer. This Plan shall be written or approved by an arborist with current certification by the International Society of Arboriculture (ISA) as a Certified Arborist. Such Certified Arborist shall be designated by the Contractor, in writing, as an authorized representative who shall have authority to represent and act for the Contractor and shall work throughout the life of the contract to ensure that the Contractor's operations comply with the provisions of the tree removal plan, the requirements of these special provisions, the Standard Specifications, as well as all relevant State, County, and local regulations concerning tree pruning, removal, and disposal. The Certified Arborist shall also ensure that the contractor's operations meet all relevant professional standards of work, including American National Standards Institute (ANSI) Section A300, "Tree, Shrub and Other Woody Plant Maintenance – Standard Practices," International Society of Arboriculture (ISA) practices, requirements, and guidelines, and the provisions of Section 20-4.055, Pruning, of the Standard Specifications.

The Certified Arborist shall inspect all tree removal and pruning operations on a schedule sufficient to ensure that the work is being performed according to all the requirements listed above. When any work is found by the Certified Arborist to be out of compliance with any required aspect of the work, instructions regarding the correct procedures shall be given to the relevant personnel and the corrections implemented immediately.

CONTRACT NO. 04-258714

REPLACED PER ADDENDUM NO. 1 DATED NOVEMBER 23, 2005

Attention is directed to the provisions Section 7-1.08, "Public Convenience" and Section 7-1.09, "Public Safety," of the Standard Specifications.

Within 15 working days after the approval of the contract, the Contractor shall submit 2 copies of the draft Tree Removal Plan to the Engineer. The Engineer will have 5 working days to review the Tree Removal Plan. If revisions are required, as determined by the Engineer, the Contractor shall revise and resubmit the Tree Removal Plan within 3 working days of receipt of the Engineer's comments.

The Tree Removal Plan shall address measures to be implemented to address the following concerns:

- A. The avoidance of endangering or inconveniencing traffic by allowing materials to fall onto, or in close proximity to, the active traffic lanes for all locations where such materials are within a distance from paved shoulders or traffic lanes capable of impacting the normal movement of traffic at such locations.
- B. Avoiding damage to existing facilities such as fences, traffic signs, irrigation systems, existing trees and vegetation to remain, and metal beam guard railing.
- C. Removing fallen trees from slopes steeper than 1:4 without causing damage to such slopes.
- D. Operating close to above-ground and buried utilities.
- E. Procedures for the safe application of herbicide.
- F. A list of locations at which the contractor believes there to be insufficient area for the spreading of chipped removed material or for the on-site operation of chipping equipment and proposed alternate locations.
- G. The measures to be taken to allow the safe removal of material when trees or parts of trees being removed become lodged in or against adjacent trees, as well as other safety aspects of the work in which Contractor's employees have been instructed.
- H. The name, certificate number, and certification expiration date of the Certified Arborist responsible for the Plan and the other requirements of this special provision.

The provisions in this Plan will not relieve the Contractor from the responsibility to provide additional devices and equipment or take measures as may be necessary to comply with the provisions in Section 7-1.09, "Public Safety," of the Standard Specifications.

Attention is directed to "Maintaining Traffic" of these special provisions regarding any applicable lane closures.

Approval shall not constitute a finding that the tree removal plan complies with applicable requirements of applicable Federal, State and local laws, regulations, and requirements.

The contract lump sum price paid for Tree Removal Plan shall include full compensation for preparing and furnishing the Tree Removal Plan, including the work of the Certified Arborist, complete in place, as specified in these special provisions, and as directed by the Engineer.

10-2.03 (BLANK)

10-2.04 HIGHWAY PLANTING

The work performed in connection with highway planting shall conform to the provisions in Section 20-4, "Highway Planting," of the Standard Specifications and these special provisions.

Erosion Control (Type D), specified elsewhere in these special provisions, shall be applied and completed prior to any planting work.

Mulch

Mulch shall be shredded cedar bark.

Commercial Fertilizer (Slow Release)

Commercial fertilizer (slow release) shall be a pelleted or granular form, shall be slow or controlled release with a nutrient release over an 8- to 12-month period and 70% humus, 15% humus, micronutrients, and soil enhancers, shall fall within the following guaranteed chemical analysis range:

Ingredient	Percentage
Nitrogen	5
Phosphoric Acid	3
Water Soluble Potash	1

PRUNE EXISTING PLANTS

Existing plants, as determined by the Engineer, shall be pruned in conformance with the provisions in Section 20-4.055, "Pruning," of the Standard Specifications and these special provisions.

Pruning of the existing plants, except as otherwise provided in these special provisions, will be paid for as extra work as provided in Section 4-1.03D of the Standard Specifications.

Attention is directed to Roadside Clearing of these special provisions.

Pruning shall include removal of all deadwood, suckers, and broken or bruised branches 12 mm or larger in diameter. Tree seal compounds shall not be used to cover pruning cuts.

Special attention shall be paid to the International Society of Arboriculture (ISA) and ANSI A-300 standards for tree care professionals, including the climbing spur and/or climbing spike recommendations and limitations and the sections mandating the manner in which pruning cuts are made.

In addition to the above the following pruning requirements shall apply:

- A. Before any trees are pruned, the Contractor shall confirm the locations of such trees with the Engineer.
- B. Removed material from trees shall be chipped, transported or otherwise disposed of in accordance with the regulations and recommendations of the County in which such trees are found, the California Division of Forestry, and the County Agricultural Commissioner to prevent the spread of pitch canker, Lerp Psyllid, Sudden Oak Death Syndrome, Eucalyptus Long-Horned Borer Beetle or other pests and diseases. No diseased wood should be allowed to remain on site unless agreed to by the State Representative and per California Division of Forestry and Agricultural regulations.
- C. Any wood, limbs, chips or debris removed from the State right of way, diseased or not, shall be disposed of in a manner which holds the State harmless. Where appropriate, Certificates of Compliance, disposal tags or letters from the private parties accepting this refuse shall be obtained by the Contractor and submitted to the Engineer prior to disposal and acknowledging the Hold Harmless clause.
- D. Any directional felling of tree limbs shall be controlled by any necessary means, including roping, wedging, jacking, climbing, and height reduction to reduce the chance of a misdirected fall.
- E. All material from trees to be pruned, including basal sprouts less than 50mm diameter at breast height within one meter of the tree, shall be removed and disposed of as described in these special provisions and the Standard Specifications.
- F. Contractor's pruning operations shall be limited to a 3.2 kilometer contiguous stretch of highway at any one time except when additional locations of work are approved in advance by the Engineer.
- G. Material from pruned trees, with the exception of that material infected with disease organisms, shall be reduced to chips. Chipped material shall be spread at a depth of 50 to 100 mm within a distance of 30 meters from the tree from which the material was generated and in areas with slopes up to 1:2.5 (vertical:horizontal) and at locations designated by the Engineer. If there is insufficient room to spread the chipped material in the manner described, the Contractor may, at his option and at no additional cost to the State, dispose of the chipped material at the depth noted above at an alternate location approved by the Engineer.
- H. Equipment not normally intended to be manually transported by two or fewer individuals shall not be operated or driven on slopes of greater than 1:4 except when approved by the Engineer.
- I. Crawler type chippers shall be allowed, where appropriate and according to these special provisions, to chip on-site. Tub grinders shall also be so allowed.
- J.

Removed pruned materials shall be disposed of outside the highway right of way in conformance to the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications. At the Contractor's option, prunings may be reduced to chips.

ROADSIDE CLEARING

Prior to preparing roadside grass seeding areas, invasive weeds, trash and debris shall be removed from the entire highway right of way within the project limits, including paved areas, medians and existing planted areas where existing plants are to remain.

Prior to tree and stump removal, as identified by the Engineer, trash and debris shall be removed from a distance of 6 m from the trees.. In addition to removing invasive weeds, trash and debris, the project area shall be cleared as specified herein:

Where required to provide access to the trees to be removed, ivy, poison oak, and other plant material surrounding trees shall be cleared to the extent required to safely allow such pruning or removal.

- A. Before any trees are felled, the Contractor shall confirm the locations of such trees with the Engineer.
- B. Any directional felling of trees shall be controlled by any necessary means, including roping, wedging, jacking, climbing, and height reduction to reduce the chance of a misdirected fall.
- C. The disturbance of existing vegetation or other work necessary to create access to trees shall be approved on a case by case basis by the Engineer, and all such areas shall be restored to the previous condition immediately after the work as any such location is complete. Any such required restoration work of disturbed areas shall be completed by the Contractor at no additional cost to the State
- D. All material from trees to be removed, including basal sprouts less than 50mm diameter at breast height within one meter of the tree, shall be removed and disposed of as described in these special provisions and the Standard Specifications.
- E. Where trees are removed, the final cut shall be as close to grade level as possible and no more than 50mm above grade level. These cuts shall be made to conform with the surrounding grade so that at no point around the circumference of the stump shall the stump protrude more than 50mm above grade.
- F. The cut stumps of felled trees shall be treated with an herbicide (stump killer) approved by the Engineer. For trees of the genus Eucalyptus and Ailanthus, such treatment shall be with the herbicide Trichlopyr except in those cases where such treatment is inconsistent with the product labeling or contrary to the Engineer's instructions. Such herbicide shall be applied within 5 minutes of the final cut being made and as recommended by the manufacturer. Contractor shall exercise extreme caution to avoid excess herbicide migrating or being spilled onto the surrounding soil.
- G. Where information contained on the plans pertaining to the location of trees is found to conflict with field conditions, the work described for that tree shall be applied to the tree at its correct location and no additional compensation will be allowed.
- H. Removed trees trees, with the exception of those trees or tree material infected with disease organisms as described in these special provisions, shall be reduced to chips. Chipped material shall be spread at a depth of 50 to 100 mm within a distance of 30 meters from the tree from which the material was generated and in areas with slopes up to 1:2.5 (vertical:horizontal) and at locations designated by the Engineer. If there is insufficient room to spread the chipped material in the manner described, the Contractor may, at his option and at no additional cost to the State, dispose of the chipped material at the depth noted above at an alternate location approved by the Engineer.
- I. At the option of the Contractor, removed trees may be removed from the State right of way and become the property of the Contractor.
- J. Existing trees identified by the Engineer for removal, shall be removed. Removal of the existing plants, except as otherwise provided in these special provisions, will be paid for as extra work as provided in Section 4-1.03D of the Standard Specifications.
- K. Equipment not normally intended to be manually transported by two or fewer individuals shall not be operated or driven on slopes of greater than 1:4 except when approved by the Engineer.
- L. Crawler type chippers shall be allowed, where appropriate and according to these special provisions, to chip on-site. Tub grinders shall also be so allowed.
- M. Invasive weeds shall be killed and removed within the entire highway right of way, within the project limits, except for existing planting areas to be maintained, and including median areas, new and existing pavement, curb, sidewalk and other surfaced areas.

Project invasive weeds plant names list:

- Pepperweed (*Lepidium latifolium*)
- Artichoke Thistle (*Cynara cardunculus*)
- Giant Reed (*Arundo donax*)
- Yellow Star Thistle (*Centaurea spp.*)
- Scotch Broom (*Cytisus scoparius*)
- Spanish Broom (*Spartium junceum*)
- Pampas Grass (*Cortaderia selloana*)
- Sweet Fennel (*Foeniculum vulgare*)

For identification/description of invasive weed plant species, and weed control methods check website: <http://tncweeds.ucdavis.edu/handbook.html>.

- N. Annual grasses and weeds, other than the listed invasive weeds, may be controlled by mowing. O. Disposal of weeds killed during the initial and subsequent roadside clearing shall be required, as directed by the Engineer. When directed by the Engineer, killed weeds shall be disposed of and the disposal will be paid for as extra work as provided in Section 4-1.03D of the Standard Specifications.

After the initial roadside clearing is complete, additional roadside clearing work shall be performed as necessary to maintain the areas, as specified above, in a neat appearance and weed free, throughout the duration of the construction until the start of the plant establishment period. This work shall include the following:

- A. Trash and debris shall be removed.
- B. Rodents shall be controlled.
- C. Weed growth shall be killed before the weeds reach the seed stage of growth or exceed 150 mm in length.
- D. Existing ground cover shall be killed and removed.

Weed Control

Weed control shall also conform to the following:

- A. Tumbleweeds shall be removed by hand pulling before the tumbleweeds reach a height of 150 mm.
- B. Removed weeds and ground cover shall be disposed of outside the highway right of way in conformance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.
- C. Weeds shall be mowed to a height of 50 mm to 150 mm, when weed height exceeds 300 mm.

Roadside clearing work shall not include work required to be performed as clearing and grubbing as specified in Section 16, "Clearing and Grubbing," of the Standard Specifications.

Where required by the Engineer, removal of existing trees shall include removing their stumps and roots 50 mm and larger in diameter to a minimum depth of 0.3-m below finish grade. Removal of stumps and roots shall be paid for as extra work as provided in Section 4-1.03D of the Standard Specifications.

A final inspection shall be performed in conformance with the provisions in Section 5-1.13, "Final Inspection," of the Standard Specifications and shall be completed a minimum of 20 working days before the estimated completion of the contract. New growth of removed Eucalyptus shall not be evident at final inspection by Engineer.

PESTICIDES

Pesticides used to control weeds shall conform to the provisions in Section 20-4.026, "Pesticides," of the Standard Specifications. Except as otherwise provided in these special provisions, pesticide use shall be limited to the following materials:

- Triclopyr
 - Diquat
 - Fluazifop-butyl
 - Glyphosate
- Glyphosate shall be used to kill stolon type weeds.

If the Contractor elects to request the use of other pesticides on this project, the request shall be submitted, in writing, to the Engineer not less than 15 days prior to the intended use of the other pesticides. Except for the pesticides listed in these special provisions, no pesticides shall be used or applied without prior written approval of the Engineer.

Pesticides shall not be applied within the limits of the plant basins. Pesticides shall not be applied in a manner that allows the pesticides to come in contact with the foliage and woody parts of the plants.

PREPARING PLANTING AREAS

Plants adjacent to drainage ditches shall be located so that, after construction of the basins, no portion of the basin walls shall be less than 1.5 m from the flow line of graded ditches.

PLANTING

Backfill material for plant holes shall be native soil.

Commercial fertilizer (pelleted and granular) shall be applied or placed at the time of planting and at the rates shown on the Plant List and in conformance with the provisions in Section 20-4.05, "Planting," of the Standard Specifications and these special provisions.

Root protectors shall conform to the provisions in "Root Protectors" of these special provisions.

Mulch placed at plant basins shall be spread to a uniform depth of 150 mm, and within a one meter radius (min.) of the plant.

FOLIAGE PROTECTOR

Foliage protectors shall be installed in conformance with the details shown on the plans, the provisions in Section 20-2.13A, "Foliage Protector," and Section 20-4, "Highway Planting," of the Standard Specifications and these special provisions.

Each foliage protector shall be held in place with two round stakes at least 50-mm nominal diameter or square stakes at least 50 mm x 50 mm in cross sectional dimensions. Stakes shall be made of wood and at least 1.5 m in length. Support stakes shall be installed vertically, embedded in the soil, and fastened to the wire cylinder at 150-mm maximum centers. Wire cylinder shall be snug against stakes yet loose enough to be raised for application of pesticides or to perform weeding within the plant basin.

Steel stakes shall not be used.

ROOT PROTECTOR

Root protectors shall be installed in conformance with the details shown on the plans, the provisions in Section 20-2.13B, "Root Protector," and Section 20-4, "Highway Planting," of the Standard Specifications and these special provisions.

PLANT ESTABLISHMENT WORK

The plant establishment period shall be Type 2 and shall not be less than 40_ working days.

Attention is directed to "Time Release Water Assembly," "Highway Planting," and "Erosion Control (Type D)" of these special provisions.

Commercial fertilizer (granular) shall be applied to trees during the last week of the plant establishment period. Commercial fertilizer shall be applied at the rates shown on the plans and shall be spread with a mechanical spreader wherever possible.

Invasive weeds within plant basins, including basin walls and ground cover, shall be controlled by spraying pesticides and hand pulling.

Invasive weeds within mulched and erosion control (type D) areas and outside of plant basins shall be controlled by killing.

Non-invasive and annual weeds outside of mulched areas, plant basins, the median, and paved areas shall be controlled by mowing. Invasive weeds within median areas, pavement, curbs, sidewalk, and other surfaced areas shall be controlled by killing.

Except as specified in these special provisions, disposal of mowed and removed material will be required as ordered by the Engineer. Disposal of mowed and removed material, as directed by the Engineer, will be paid for as extra work as provided in Section 4-1.03D of the Standard Specifications.

At the option of the Contractor, plants of a larger container size than those originally specified may be used for replacement plants during the first 125 working days of the plant establishment period. The use of plants of a larger container size than those originally specified for replacement plants shall be at the Contractor's expense.

After 40 working days of the plant establishment period have been completed, replacement of plants shall be No. 5 size for No. 1 size plants and the same seed specification for Erosion Control (Type D)—grass and woody seed mixes, as originally specified. At the last week of the Plant Establishment Work period, the Contractor shall install 5 new gel packs in the installed empty polyethylene tubes, of each plant.

Full compensation for providing and installing time release water assembly replacement gel packs during the plant establishment period shall be considered as included in the contract lump sum price paid for Plant Establishment Work and no additional compensation will be allowed therefor.

During the plant establishment period, if plants become restricted by foliage protectors, the tops of foliage protectors shall be removed. The final inspection shall be performed in conformance with the provisions in Section 5-1.13, "Final Inspection," of the Standard Specifications and shall be completed a minimum of 20 working days before the estimated completion of the contract.

10-2.04 TIME RELEASE WATER ASSEMBLY

Time release water assemblies shall be installed as shown on the plans, in conformance with these special provisions, and as directed by the Engineer.

Time release water assemblies shall consist of a tube and gel pack. The polyethylene tube shall be 75 mm in diameter, 300 mm in length, with a UV protected cap. Polyethylene tube shall extend 25 mm above the basin mulch. The one liter polycellulose gel pack shall consist of 98% purified water and 2% food grade ingredients. The water shall remain in a gelled state until it contacts soil bacteria.

When the plants are installed, the Contractor shall furnish and install 5 time release water assemblies, and 5 empty polyethylene tubes, at each 1-gallon plant (Group A) equally spaced around each plant, and per manufacture's instructions. Each time release water assembly shall be installed so that it is in contact with the root ball. Cut off one-fourth of the carton bottom, to expose gel to soil. Time release water assembly installation shall not cause damage to the plant root ball.

After initial assembly installation, the Contractor shall saturate the plant basin with water. And, the Contractor shall replace gel-packs as necessary to provide sufficient water to keep plants in a healthy growing condition until acceptance of the contract. Gel-packs typically last between 30-90 days, and release approximately one liter of water. During the last week of the Plant Establishment Work period, the Contractor shall install 5 new gel packs in the installed empty polyethylene tubes, of each plant.

Full compensation for time release water assembly shall be considered as included in the contract lump sum price paid for Highway Planting and no separate payment will be made therefor.

ENGINEER'S ESTIMATE
04-258714

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	152317	RESET ROADSIDE SIGN (TWO POST)	EA	13		
22	152473	ADJUST UNDERDRAIN RISER	EA	3		
23	152604	MODIFY INLET	EA	1		
24	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	M2	50 000		
25	170101	DEVELOP WATER SUPPLY	LS	LUMP SUM	LUMP SUM	
26	190101	ROADWAY EXCAVATION	M3	33 400		
27	198007	IMPORTED MATERIAL (SHOULDER BACKING)	TONN	9300		
28 (S)	203003	STRAW (EROSION CONTROL)	TONN	76		
29 (S)	203014	FIBER (EROSION CONTROL)	KG	19 000		
30 (S)	203024	COMPOST (EROSION CONTROL)	M3	190		
31 (S)	203026	MOVE-IN/MOVE-OUT (EROSION CONTROL)	EA	5		
32	BLANK					
33 (S)	203061	STABILIZING EMULSION (EROSION CONTROL)	KG	2070		
34	260201	CLASS 2 AGGREGATE BASE	M3	16 400		
35	390155	ASPHALT CONCRETE (TYPE A)	TONN	23 200		
36	394002	PLACE ASPHALT CONCRETE (MISCELLANEOUS AREA)	M2	230		
37	394040	PLACE ASPHALT CONCRETE DIKE (TYPE A)	M	2260		
38	394054	SHOULDER RUMBLE STRIP (AC, GROUND-IN INDENTATIONS)	STA	290		
39 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	M3	6		
40	510526	MINOR CONCRETE (BACKFILL)	M3	3.3		

ENGINEER'S ESTIMATE
04-258714

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61 (S)	839541	TRANSITION RAILING (TYPE WB)	EA	19		
62 (S)	839584	ALTERNATIVE IN-LINE TERMINAL SYSTEM	EA	5		
63 (S)	839585	ALTERNATIVE FLARED TERMINAL SYSTEM	EA	28		
64	037799	CONCRETE BARRIER (TYPE 60C-MOD)	M	1810		
65 (S)	840515	THERMOPLASTIC PAVEMENT MARKING	M2	14		
66 (S)	840560	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)	M	44 900		
67 (S)	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	800		
68 (S)	860401	LIGHTING	LS	LUMP SUM	LUMP SUM	
69 (S)	860930	TRAFFIC MONITORING STATION	LS	LUMP SUM	LUMP SUM	
70 (S)	869034	NO. 5(T) PULL BOX	EA	88		
71 (S)	869042	ADJUST PULL BOX	EA	67		
72 (S)	BLANK					
73 (S)	200001	HIGHWAY PLANTING	LS	LUMP SUM		
74 (S)	200002	ROADSIDE CLEARING	LS	LUMP SUM		
75 (S)	203021	FIBER ROLLS	M	17 000		
76 (S)	037996	PURE LIVE SEED (EROSION CONTROL) (GRASS)	KG	480		
77 (S)	037997	PURE LIVE SEED (EROSION CONTROL) (WOODY)	KG	280		
78 (S)	203056	COMMERCIAL FERTILIZER (EROSION CONTROL)	KG	9500		
79 (S)	204099	PLANT ESTABLISHMENT WORK	LS	LUMP SUM		
80 (S)	037998	TREE REMOVAL PLAN	LS	LUMP SUM		

ENGINEER'S ESTIMATE
04-258714

81	999990	MOBILIZATION	LS	LUMP SUM		
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TOTAL BID: _____