



County of Santa Cruz

DEPARTMENT OF PUBLIC WORKS

701 OCEAN STREET, ROOM 410, SANTA CRUZ, CA 95060
(831) 4642160 FAX (831) 4543385 TDD (831) 454-2123

THOMAS L. BOLICH
DIRECTOR OF PUBLIC WORKS

AGENDA: MARCH 20, 2001

March 13, 2001

SANTA CRUZ COUNTY BOARD OF SUPERVISORS

701 Ocean Street
Santa Cruz, California 95060

SUBJECT: EL RANCHO DRIVE SLIPOUT AT STATE HIGHWAY 17
UNDERPASS NEAR BEULAH PARR
DSRNO. 727214, FEMA-1203-DR-CA, P.A. 087-00000
PROFESSIONAL ENGINEERING SERVICES CONTRACT

Members of the Board:

The Public Works Department has secured \$789,000.00 in Federal Emergency Management Agency (**FEMA**) funding and \$601,000 in State Transportation Improvement Program funding for the design and repair of the El **Rancho** Drive **slipout** near Beulah Park. Our department is now ready to move forward to begin the engineering design work to repair El **Rancho** Drive. We recently interviewed several firms for consultant services and selected CCS Planning and Engineering for the El **Rancho** Drive Project. Our department previously worked with CCS Planning and Engineering on the Teilh Drive Bridge Replacement Project three years ago and we found them to be an accomplished firm in managing that improvement project.

Presented here for your Board's consideration and approval is the proposed independent contractor agreement and the scope of work that would be performed by CCS Planning and Engineering. The scope of work includes two phases of work. The Phase I portion of the agreement will provide for a comprehensive geotechnical analysis, an assessment of feasible repair alternatives, and associated coordination on the project with the California Department of Transportation, since the **slipout** is adjacent to State Route 17. The fee for Phase I is to be charged on a time and material basis with a not-to-exceed cost of \$76,475.

The Phase II portion of the agreement provides for the preparation of plans, specifications, and a construction estimate for the recommended project, including coordination work with applicable agencies and utilities. The fee for Phase II is to be charged on a time and material basis with a not-to-exceed cost of \$162,211.

It is therefore recommended that the Board of Supervisors take the following action:

1. Approve the attached independent contractor agreement with CCS Planning and Engineering of San Ramon for engineering services to study repair alternatives and prepare final plans, specifications, and construction estimate for the El Rancho Drive Slipout at the State Highway 17 underpass near Beulah Park for a total not-to-exceed amount of \$238,686.
2. Authorize the Director of Public Works to sign the agreement on behalf of the county.

Yours truly,



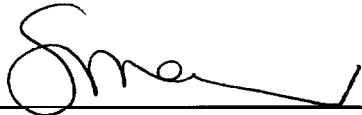
For

THOMAS L. BOLICH
Director of Public Works

CIV:mg

Attachments

RECOMMENDED FOR APPROVAL:



County Administrative Officer

copy to: CCS Planning and Engineering
Bill Llewelyn, Area Coordinator, Office of Emergency Services
Debbie Hale, Santa Cruz County Regional Transportation Commission
Public Works

COUNTY OF SANTA CRUZ

0207

REQUEST FOR APPROVAL OF AGREEMENT

TO: Board of Supervisors
County Administrative Officer
County Counsel
Auditor-Controller

FROM: PUBLIC WORKS DEPARTMENT (Dept.)
[Signature] (Signature) 3-6-01

The Board of Supervisors is hereby requested to approve the attached agreement and authorize the execution of the same.

- 1. Said agreement is between the COUNTY OF SANTA CRUZ (Agency)
CCS PLANNING AND ENGINEERING
and 6 CROW CANYON COURT, SAN RAMON, CA 94583-1621 (Name & Address)
2. The agreement will provide FOR PROFESSIONAL ENGINEERING SERVICES FOR THE REPAIR OF THE EL RANCHO
DRIVE SLIPOUT AT HIGHWAY 17 NEAR BEAULAH PARK
3. The agreement is needed, BECAUSE THE WORK CAN BE HANDLED MOST EXPEDITIOUSLY BY CONTRACT.
4. Period of the agreement is from BOARD APPROVAL to JUNE 30, 2001
5. Anticipated cost is \$ 238,686.00 (Fixed amount; Monthly rate; Not to exceed)
6. Remarks: CONTRACT \$238,686.00; OVERHEAD \$16,708.02; TOTAL \$255,394.02
7. Appropriations are budgeted in 621198! 70783! 3665! (Index#) 3590 (Subject)

NOTE: IF APPROPRIATIONS ARE INSUFFICIENT, ATTACH COMPLETED FORM AUD-74

Appropriations are available and have been encumbered. Contract No. C002367 Date 3-8-01
GARY A. KNUTSON, Auditor-Controller
By [Signature] Deputy.

Proposal reviewed and approved. It is recommended that the Board of Supervisors approve the agreement and authorize the
DIRECTOR OF PUBLIC WORKS to execute the same on behalf of the PUBLIC WORKS DEPARTMENT
(Agency) County Administrative Officer

Remarks: [Signature] (Analyst) By [Signature] Date 3/13/01

Agreement approved as to form. Date

Distribution: Bd. of Supv. - White
Auditor-Controller - Blue
County Counsel - Green
Co. Admin. Officer - Canary
Auditor-Controller - Pink
Originating Dept. - Goldenrod
*To Orig. Dept. if rejected.
CIV:mg
A JM-29 (6/95)

State of California)
County of Santa Cruz) ss
I ex-officio Clerk of the Board of Supervisors of the County of Santa Cruz,
State of California, do hereby certify that the foregoing request for approval of agreement was approved by
said Board of Supervisors as recommended by the County Administrative Officer by an order duly entered
in the minutes of said Board on
County Administrative Officer
By Deputy Clerk

Contract No. _____

INDEPENDENT CONTRACTOR AGREEMENT

THIS CONTRACT is entered into this o day of _____ 2001, by and between the COUNTY OF SANTA CRUZ, hereinafter called COUNTY, and CCS PLANNING AND ENGINEERING, INC., hereinafter called CONTRACTOR. The parties agree as follows:

1. DUTIES. CONTRACTOR agrees to exercise special skill to accomplish the following result:

PHASE I

CONTRACTOR shall provide for the development of conceptual design alternatives for the repair of the **slipout/slide** and determination of the preferred alternative at El Rancho Drive at La Madrona Drive. Phase I shall also shall include the undertaking of geotechnical investigations and preparation of report in accordance with the provisions in the attached CCS "Proposal."

PHASE II

CONTRACTOR shall provide for the preparation of complete plans, specifications, and engineer's estimate for the final selected **slipout** repair project at El Rancho Drive at La Madrona Drive in accordance with the provisions in the attached CCS "Proposal".

DUTIES. COUNTY

County Duties shall include:

- a. Coordination of all required permits from the California Department of Transportation.
- b. Coordination of all utility replacements in El Rancho Drive.
- c. Preparation of all required easements and rights-of-way descriptions for the final repair project as well as undertaking all required right-of-way negotiations.
- d. Undertaking of all required additional field surveys.

2. COMPENSATION. In consideration for CONTRACTOR accomplishing said result, COUNTY agrees to pay CONTRACTOR as follows:

Phase I- The Contractor shall be compensated for all Phase I work on a time and material basis charged at the hourly rates shown on the attached CCS fee schedule with a **not-to-exceed** amount of \$76,475.00.

Phase II - The Contractor shall be compensated for all work on a time and material basis charged at the hourly rates shown on the attached CCS fee schedule, with a not-to-exceed amount of \$162,211.00.

3. TERM. The term of this contract shall be: from the date of signature to June 30, 2001.

4. EARLY TERMINATION. Either party hereto may terminate this contract at any time by giving 30 days written notice to the other party.

5. INDEMNIFICATION FOR DAMAGES, TAXES AND CONTRIBUTIONS. CONTRACTOR shall exonerate, indemnify, defend, and hold harmless COUNTY (which for the purpose of paragraphs 5 and 6 shall include, without limitation, its officers, agents, employees and volunteers) from and against:

A. Any and all claims, demands, losses, damages, defense costs, or liability of any kind or nature which COUNTY may sustain or incur or which may be imposed upon it for injury to or death of persons, or damage to property as a result of, arising out of, or in any manner connected with the CONTRACTOR'S negligent performance under the terms of this Agreement, excepting any liability arising out of the sole negligence of the COUNTY. Such indemnification includes any damage to the person(s), or property(ies) of CONTRACTOR and third persons.

B. Any and all Federal, State and Local taxes, charges, fees, or contributions required to be paid with respect to CONTRACTOR and CONTRACTOR'S officers, employees and agents engaged in the performance of this Agreement (including, without limitation, unemployment insurance, social security and payroll tax withholding).

6. INSURANCE. CONTRACTOR, at its sole cost and expense, for the full term of this Agreement (and any extensions thereof), shall obtain and maintain at a minimum compliance with all of the following insurance coverage(s) and requirements. Such insurance coverage shall be primary coverage as respects COUNTY and any insurance or self-insurance maintained by County shall be excess of CONTRACTOR'S insurance coverage and shall not contribute to it.

If CONTRACTOR utilizes one or more subcontractors in the performance of this Agreement, CONTRACTOR shall obtain and maintain Independent Contractor's Insurance as to each subcontractor or otherwise provide evidence of insurance coverage for each subcontractor equivalent to that required of CONTRACTOR in this Agreement, unless CONTRACTOR and COUNTY both initial here _____/_____.

A. Types of Insurance and Minimum Limits

(1) Worker's Compensation in the minimum statutorily required coverage amounts. This insurance coverage shall not be required if the CONTRACTOR has no employees and certifies to this fact by initialing here _____

(2) Automobile Liability Insurance for each of CONTRACTOR's vehicles used in the performance of this Agreement, including owned, non-owned (e.g. owned by **CONTRACTOR's** employees), leased or hired vehicles, in the minimum amount of \$500,000 combined single limit per occurrence for bodily injury and **property** damage. This insurance coverage shall not be required if vehicle use by CONTRACTOR is not a material part of performance of this Agreement and CONTRACTOR and COUNTY both certify to this fact by initialing here /_____.

(3) Comprehensive or Commercial General Liability Insurance coverage in the minimum amount of **\$1,000,000** combined single limit, including coverage for: (a) bodily injury, (b) personal injury, (c) broad-form property damage, (d) contractual liability, and (e) cross-liability.

(4) Professional Liability Insurance in the minimum amount of **\$1,000,000.00** combined single limit, **if**, and only if, this Subparagraph is initialed by CONTRACTOR and COUNTY **TMW /**

B. Other Insurance Provisions

(1) If any insurance coverage required in this Agreement is provided on a "Claims Made" **rather** than "Occurrence" form, CONTRACTOR agrees to maintain the required coverage for a period of three (3) years after the expiration of this Agreement (hereinafter "post agreement coverage") and any extensions thereof. CONTRACTOR may maintain the required post agreement coverage by renewal or purchase of prior acts or tail coverage. This provision is contingent upon post agreement coverage being both available and **reasonably affordable** in relation to the coverage provided during the term of this Agreement. For purposes of interpreting this requirement, a cost not exceeding 100% of the last annual policy premium during the term of this Agreement in order to purchase prior acts or tail coverage for post agreement coverage shall be deemed to be reasonable.

(2) All required Automobile and Comprehensive or Commercial General Liability Insurance shall be endorsed to contain the following clause:

"The County of Santa **Cruz**, its **officials**, employees, agents and volunteers are added as an additional insured as respects the operations and activities of, or on behalf of, the named insured performed under Agreement with the County of Santa **Cruz**."

(3) All required insurance policies shall be endorsed to contain the following clause:

"This insurance shall not be canceled until after thirty (30) days prior written notice has been given to: (NAME TO WHOM THE CERTIFICATE **SHOULD BE DELIVERED TO**)."

(4) **CONTRACTOR** agrees to provide its insurance broker(s) with a **full** copy of these insurance provisions and provide COUNTY on or before the effective date of this

Agreement with Certificates of Insurance for all required coverages. All Certificates of Insurance shall be delivered or sent to:

7. EOUAL EMPLOYMENT OPPORTUNITY. During and in relation to the performance of this Agreement, CONTRACTOR agrees as follows:

A. The CONTRACTOR shall not discriminate against any employee or applicant for employment because of race, color, religion, national origin, ancestry, physical or mental disability, medical condition (cancer related), marital status, pregnancy, sex, sexual orientation, age (over 1 5), veteran status or any other non-merit factor unrelated to job duties. Such action shall include, but not be limited to the following: recruitment; advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training (including apprenticeship), employment, upgrading, demotion, transfer. The CONTRACTOR agrees to post in conspicuous places, available to employees and applicants for employment, notice setting forth the provisions of this non-discrimination clause.

B. If this Agreement provides compensation in excess of \$50,000 to CONTRACTOR and if CONTRACTOR employs fifteen (15) or more employees, the following requirements shall apply:

(1) The CONTRACTOR shall, in all solicitations or advertisements for employees placed by or on behalf of the CONTRACTOR, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, ancestry, physical or mental disability, medical condition (cancer related), marital status, pregnancy, sex, sexual orientation, age (over 1 8), veteran status, or any other non-merit factor unrelated to job duties. In addition, the CONTRACTOR shall make a good faith effort to consider Minority/Women/Disabled Owned Business Enterprises in CONTRACTOR's solicitation of goods and services. Definitions for Minority/Women/Disabled Business Enterprises are available from the COUNTY General Services Purchasing Division.

(2) The CONTRACTOR shall furnish COUNTY Affirmative Action Office information and reports in the prescribed reporting format (PER 40 12) identifying the sex, race, physical or mental disability and job classification of its employees and the names, dates and methods of advertisement and direct solicitation efforts made to subcontract with Minority/Women/Disabled Business Enterprises.

(3) In the event of the CONTRACTOR'S non-compliance with the non-discrimination clauses of this Agreement or with any of the said rules, regulations, or orders said CONTRACTOR may be declared ineligible for further agreements with the COUNTY.

(4) The CONTRACTOR shall cause the foregoing provisions of this Subparagraph 7B. to be inserted in all subcontracts for any work covered under this Agreement by a subcontractor compensated more than \$50,000 and employing more than fifteen (15) employees, provided that the foregoing provisions shall not apply to contracts or subcontracts for standard commercial supplies or raw materials.

8. INDEPENDENT CONTRACTOR STATUS. CONTRACTOR and COUNTY have reviewed and considered the principal test and secondary factors below and agree that CONTRACTOR is an independent contractor and not an employee of COUNTY. CONTRACTOR is responsible for all insurance (workers compensation, unemployment, etc.) and all payroll related taxes. CONTRACTOR is not entitled to any employee benefits. COUNTY agrees that CONTRACTOR shall have the right to control the manner and means of accomplishing the result contracted for herein.

PRINCIPAL TEST: The CONTRACTOR rather than COUNTY has the right to control the manner and means of accomplishing the result contracted for.

SECONDARY FACTORS: (a) The extent of control which, by agreement, COUNTY may exercise over the details of the work is slight rather than substantial; (b) CONTRACTOR is engaged in a distinct occupation or business; (c) In the locality, the work to be done by CONTRACTOR is usually done by a specialist without supervision, rather than under the direction of an employer; (d) the skill required in the particular occupation is substantial rather than slight; (e) The CONTRACTOR rather than the COUNTY supplies the instrumentalities, tools and work place; (f) The length of time for which CONTRACTOR is engaged is of limited duration rather than indefinite; (g) The method of payment of CONTRACTOR is by the job rather than by the time; (h) The work is part of a special or permissive activity, program, or project, rather than part of the regular business of COUNTY; (i) CONTRACTOR and COUNTY believe they are creating an independent contractor relationship rather than an employer-employee relationship; and (j) The COUNTY conducts public business.

It is recognized that it is not necessary that all secondary factors support creation of an independent contractor relationship, but rather that overall there are significant secondary factors which indicate that CONTRACTOR is an independent contractor.

By their signatures to this Agreement, each of the undersigned certifies that it is his or her considered judgment that the CONTRACTOR engaged under this Agreement is in fact an independent contractor.

9. CONTRACTOR represents that its operations are in compliance with applicable County planning, environmental and other laws or regulations.

10. CONTRACTOR is responsible to pay prevailing wages and maintain records as required by Labor Code Section 1770 and following.

11. NONASSIGNMENT. CONTRACTOR shall not assign this agreement without the prior written consent of the COUNTY.

12. RETENTION AND AUDIT OF RECORDS. CONTRACTOR shall retain records pertinent to this Agreement for a period of not less than five (5) years after final payment under this Agreement or until a final audit report is accepted by COUNTY, whichever occurs first. CONTRACTOR hereby agrees to be subject to the examination and audit by the Santa Cruz County Auditor-Controller, the Auditor General of the State of California, or the assignee of either for a period of five (5) years after final payment under this Agreement.

33

13. **PRESENTATION OF CLAIMS.** Presentation and processing of any or all claims arising out of or related to this Agreement shall be made in accordance with the provisions contained in Chapter 1.05 of the Santa Cruz County Code, which by this reference is incorporated herein.

14. **ACKNOWLEDGMENT.** CONTRACTOR shall **acknowledge** in all reports and literature that the Santa Cruz County Board of Supervisors has provided funding to the CONTRACTOR

15. **ATTACHMENTS.** This Agreement includes the following attachments:
Proposal.

IN WITNESS WHEREOF, the parties hereto have set their hands the day and year first above written.

COUNTY OF SANTA CRUZ

CONTRACTOR
CCS Planning and Engineering, Inc.

By: _____
Director of Public Works

By: *[Signature]*

Address: 6 Crow Canyon Ct.
San Ramon, CA 94583-1621

APPROVED AS TO FORM:

Telephone: (925) 314-1220
FAX: (925) 314-1229
E-MAIL *TWintch@CCSoffice.com*

By: *[Signature]* 3-7-01
Chief Assistant County Counsel

DISTRIBUTION: Auditor-Controller
Contractor
Public Works

CIV:mg

ELK

SLIPOUT REPAIR PROJECT ON EL RANCHO DRIVE AT LA MADRONA DRIVE SANTA CRUZ COUNTY

SCOPE OF SERVICES

CCS Planning and Engineering, Inc., (Consultant) shall provide the following services to the County of Santa Cruz:

GENERAL DESCRIPTION OF WORK

The Scope of Services for this project shall be split into two primary phases, Phase I: Determination of the Preferred Alternative and Phase II: Preparation of Plans, Specifications, and Estimates. Phase I shall be further split into Phase IA – “Geotechnical Analysis and Findings” and Phase IB – “Preferred Alternative Identification”. Phase I shall be completed and the Preferred Alternative determined and approved by the County prior to beginning the preparation of Phase II (PS&E).

This project, the “Slip-out Repair on El Rancho Drive at La Madrona Drive”, is generally defined as repair of the slipout by construction of retaining walls or other methods, protection and or modification of an existing adjacent Caltrans retaining wall, and the reconstruction of that portion of El Rancho Drive impacted by the slipout and construction activities.

All services or expenses invoiced to the County shall be actual services provided or expenses incurred by the Consultant in performance of the Project Scope-of-Services and shall not exceed the amount shown in the Compensation Section of the Agreement between the County and the Consultant.

PHASE I: Determination of the Preferred Alternative

For Phase I, the repair alternatives will be identified and developed only to a conceptual/feasibility level of definition that allow preparation of preliminary construction cost estimates and identification of other project factors and impacts that will allow an informed decision to be made on the selection of the preferred alternative.

Phase IA shall be primarily the development of the Geotechnical investigations and report, with only limited involvement by CCS. CCS involvement will generally be management oversight and coordination activities. Included in Phase IA shall be a comprehensive coordination meeting among the County, the CCS Team, and others as appropriate, to determine which potential Slip-out Repair Alternatives will be carried into the Phase IB – Preferred Alternative Development activities. Potential Alternatives include:

- Alternative 1: MSE Wall at the Toe-of-the-slope
- Alternative 2: MSE Wall at Mid-Height
- Alternative 3: A Tie-Back Wall at Mid-Height

Based on the identified alternatives to be studied from Phase IA, the Phase IB Scope-of-Work and corresponding fee shall be developed and agreed on between the County and CCS Planning and Engineering. A separate “Notice to Proceed” will be issued by the County for the Phase IB work. For purposes of defining an anticipated maximum level of effort and corresponding fee, this Scope of Work and the corresponding fee assume that the three (3) alternatives identified above may be investigated.

The Consultant shall include in this Phase I work:

- Limited coordination activities with the County, Caltrans, and other impacted or interested parties
- Geotechnical investigations, testing, analysis, & Letter Report (Feasibility Study).
- Final Geotechnical Report
- Development of Preliminary Slipout Repair Alternatives, including typical cross-sections and corresponding preliminary construction cost estimates. The development of cost estimates shall include a review and input by a construction contractor experienced in this type of work, including costs resulting from the difficult site access.

Work Not Included in this Phase I Scope-of- Work

- Environmental studies or activities, including aerially deposited lead
- Coordination with Utility Companies. The County shall provide all necessary coordination with and data collection from all the various utility companies involved or impacted by the project
- Field surveys required to supplement surveys previously performed by the County. The County shall provide the additional surveys required to accomplish the Phase I Scope-of-Work
- System-wide hydraulic studies
- Engineering or design of privately owned utilities
- Caltrans PEER, Encroachment Permits, Right-of-Way or Utility Certifications. The County shall provide and/or prepare these documents.
- New Aerial Topographic Mapping
- Development of Project final design
- Right-of-Way activities
- Geotechnical borings on the Route 17 side if a bridge structure or tie-back wall is chosen as the preferred alternative
- Additional expenses to obtain the two soil borings within the slide and below the road elevation, other than that provided for in Task 2 – Geotechnical Investigations & Report
- Application fees or fees of any kind
- Attendance at or preparation for any public meetings

PHASE I: DETAILED SCOPE OF WORK**PHASE IA – GEOTECHNICAL ANALYSIS AND FINDINGS****TASK 1: PROJECT MANAGEMENT -PHASE IA****1.1 Project Management**

Project management responsibilities and activities will include the following:

- Administer activities required for the project including subconsultant coordination
- Prepare progress schedules and status reports
- Ensure conformance with County standards
- Design costs associated with the work shall be independently tracked, as appropriate

1.2 Data Collection and Review.

- a) Existing Data – The County shall be responsible for the collection of existing data from various utilities and agencies involved or impacted by the Project. The County shall provide this information to the Consultant. The Consultant shall review this data and information and identify any additional data required for design. Data and information to be collected include:
- As-built plans for Route 17, El Rancho Drive, and La Madrona Drive
 - Geotechnical information
 - Available hydraulic information
 - Existing field survey information
 - Existing mapping and aerial photography
 - As-built information for all the existing utilities impacted by the project
 - Existing right-of-way and property ownership and restrictions
- b) Field Investigation – A field review will be conducted by the Consultant and Team Members to observe the site and record existing conditions. During the study and design process, numerous site visits by the Consultant Team Members are anticipated.

1.3 **Caltrans Coordination.** The Consultant’s responsibilities concerning coordination with Caltrans as part of Phase IA activities shall be limited to the minimum required to accomplish the work. It is anticipated that Phase IA Caltrans coordination activities will be limited to one general coordination meeting.

- The County shall prepare an Encroachment Permit for access onto Caltrans right-of-way for site reconnaissance, surveys, and geotechnical investigations.

1.4 Agency and Utility Coordination.

The County shall coordinate the Project with all appropriate agencies and utility companies.

1.5 Meetings

The level of effort and time associated with all of the various meetings with County representatives and with representatives of other agencies and companies for this Phase IA Scope of Work is very limited and is as estimated and shown on the Phase IA Staff Hour and Fee Proposal.

TASK 2: GEOTECHNICAL INVESTIGATIONS & REPORT

Our approach is to first obtain the subsurface data in the area to help characterize the slide and the competent soil/rock formation. We plan to conduct a field investigation and perform an initial analysis to prepare a preliminary report that would evaluate the various options and their feasibility. Once the mitigation plan is decided and agreed upon by all agencies, we would complete the Geotechnical design report and provide consultation during the P S & E phase.

The proposed project is to build MSE Walls or similar retained earth systems to accommodate the roadway fill and the ultimate alignment.

Based on the initial plans, it is anticipated that the MSE wall or similar structure will be supported at mid height or at the “toe of the slope”.

It is proposed to drill a total of five (5) borings. Drill two (2) borings up to 70 feet depth along the proposed roadway alignment at each dead end of El Rancho Drive, one boring to 30' depth at the center of the slide adjacent to the existing soldier pile wall, and two (2) borings to 30' depth (if possible) along the central axis of the slide below the road elevation. The boring adjacent to the Caltrans wall will have to be moved around to fit in the ledge area using a portable tripod system. If permitted by Caltrans, we could drill this boring from the highway shoulder using a truck rig, however, it will require a lane closure and an encroachment permit from Caltrans.

For the proposed two borings along the central axis of the slide and below the road elevation, access will be extremely difficult. It is proposed to use a portable d-ill rig that should be able to drill to the rock surface, but to not penetrate the rock. This will allow the determination of the rock surface and slide depth. This Scope of Work and corresponding fee assumes that these two borings can be obtained by use of the portable drill rig, with access by use of a winch from the roadway elevation.

In addition, we would consider using geophysical investigation (two seismic refraction survey lines) to see if the depth to rock or rock-like material can be defined. This is a relatively efficient method to distinguish between fill and rock material. However, due to buried utilities and structures, it may have its limitations in this case. This is included in the proposed Scope of Work.

2.1 Research, Coordination, and Permits

Comply with requirements for necessary encroachment as per the County. We will obtain necessary utility clearances for field exploration work within the roadway area. A Caltrans permit is not included at this time.

2.2 Field Exploration

Drill a total of five borings 30' to 70' deep. Drilling will be performed using a rotary wash method. The soil cuttings will be left at the site, unless arrangements are made to dispose off to a specific site. The portable boring will be drilled using a "minuteman" auger rig. Conduct one or two geophysical surveys (seismic refraction) along and across the side.

2.3 Laboratory Testing

Conduct laboratory tests on selected samples to obtain engineering properties. This may include various strength tests, index properties, corrosion tests, etc.

2.4 Soils Analysis / Evaluation

Evaluate the data to help characterize the slide mechanism and depth at the Route 17 wall. Our engineering geologist will also review the field data to evaluate the slide mechanism and develop a cross section for analysis. Geophysical data will be used for this study. Perform engineering analyses and develop conceptual (preliminary) recommendations for up to three different concepts. This will include an MSE wall at the toe, MSE wall at mid height, and a tie-rod wall at mid-height. If the fill above El Rancho Drive is unstable the options may be very limited. The existing wall may require additional tie-backs for lateral support. The MSE wall could be self-supporting, however, it cannot support the uphill fill from Highway 17. This will be discussed in the report. These options will be only discussed to a conceptual level so that a comparison can be made. Detail design parameters will be provided in the final design in Phase II.

2.5 Geotechnical Findings Meeting

Upon conclusion of the soils analysis and evaluation, a meeting will be held among the County, the CCS Team, and others as appropriate, to determine which Slip-out Repair Alternatives should be studied in the Preliminary Engineering - Phase IB of the Project.

2.6 Draft Letter Report (Feasibility Study)

Based on the evaluation and engineering analysis a feasibility study report will be prepared. Conclusions from this will help form a basis for completing the PS&E for the project.

PHASE IB – PREFERRED ALTERNATIVE IDENTIFICATION

TASK 3: PROJECT MANAGEMENT – PHASE IB

3.1 Project Management

Project management responsibilities and activities will include the following:

- Administer activities required for the project including subconsultant coordination
- Prepare progress schedules and status reports
- Ensure conformance with County standards
- Design costs associated with the work shall be independently tracked, as appropriate

3.2 Caltrans Coordination. The Consultant's responsibilities concerning coordination with Caltrans as part of Phase IB activities shall be limited to the minimum required to accomplish the work. It is anticipated that Phase IB Caltrans coordination activities will be limited to the activities listed below.

- Coordination and meetings with Caltrans personnel concerning the development of design alternatives for the slipout repair
- Coordination with Caltrans personnel concerning the potential impacts and/or modifications to the existing wall adjacent to the slipout
- Response to review comments received on the proposed Slipout Repair Feasibility Study, as appropriate and as directed by the County.

The level of effort and time associated with all of the various meetings with Caltrans representatives for this Phase IB Scope of Work is limited to that estimated and shown on the Phase IB Staff Hour and Fee Proposal.

Note that the project will include impacts to facilities within the existing Caltrans right-of-way that will require the preparation of a Caltrans Permit Engineering Evaluation Report (PEER), Right-of-Way and Utility Certifications, and an Encroachment Permit for construction. These required documents will be prepared by the County as part of the Phase II design activity and are not included in this Phase I Scope of Work.

3.3 Agency and Utility Coordination.

Coordination with the various agencies, utility companies, and others impacted by the Project is a responsibility of the County and is therefore not included in this Scope of Work. The

Consultant shall review and utilize the information collected by the County in the design of the Project. Utilities will be shown on the plans as appropriate.

3.4 Meetings

The level of effort and time associated with all of the various meetings with County representatives and with representatives of other agencies and companies for this Phase IB Scope of Work is as estimated and shown on the Phase IB Staff Hour and Fee Proposal.

3.5 Preliminary Field Surveys

Additional field surveys required to design the project will be performed by the County to supplement those surveys previously completed. It is anticipated that the additional surveys associated with this Phase IB work will be limited to obtaining the field information required to develop an appropriate base map for the study alternatives. Additional surveys are anticipated to be a requirement by the Phase II design activities, which will be included in the Phase II Scope of Work.

TASK 4: PRELIMINARY ENGINEERING

4.1 Prepare Base Map & Preliminary Roadway Alignment

The field survey information, both existing and supplemental, will be used to develop a base map for the study. The base map at this time will be developed only to a level of detail that is appropriate for a preliminary / feasibility study.

The preliminary roadway alignment and typical roadway cross-section will be developed for inclusion into the various Slipout Repair Alternatives under study.

4.2 Prepare Preliminary Slipout Repair Alternatives

Based on the study alternatives identified in the geotechnical investigations (Phase IA- Task 2), exhibits of the plan and cross-sectional views of each alternative will be prepared. The exhibits will include sufficient detail to allow the preparation of comparative construction cost estimates and shall include all major construction elements.

Plan exhibits shall be prepared at a scale of 1:250 metric.

Cross-sections shall be prepared at an interval of approximately 20m and at a vertical and horizontal scale of 1:250 metric, or as agreed with the County.

4.3 Prepare Preliminary Construction Cost Estimates

Preliminary construction cost estimates will be prepared corresponding to the alternatives developed in Task 4.2. The estimates will be prepared to a detail sufficient to allow reasonable comparisons among the various alternatives in order to identify the preferred alternative.

The estimates will be based on quantity take-offs of significant and key items of work. In addition, a construction contractor experienced in this type of work will be consulted concerning the potential impact of the very difficult construction access on the construction cost.

4.4 Finalize Preferred Alternative

The exhibits and results, including construction cost estimates, developed for the various identified Slip-out Repair Alternatives will be presented for review to the County, and others.



directed. A total of 5 copies of the submittal shall be transmitted to the County and sufficient copies for others, as directed by the County.

As necessary, a review meeting will be held among the County, Consultant, and others as appropriate, to discuss and resolve any review comments or issues relating to the study results. Based on the resolved issues and as directed by the County, the Consultant shall finalize the Preferred Slipout Repair Alternative and update the construction cost estimate, as required.

The Preferred Alternative shall be the basis for the development of the Staff Hour and Fee Proposal for the Phase II – Development of the Project PS&E.

4.5 Final Geotechnical Report

The Final Geotechnical Report will be prepared, including design recommendations for the preferred wall structure and grading recommendations. Provide vertical and lateral design recommendations for the selected foundation system. Information on ground water conditions and other relevant drainage recommendations will also be discussed in the report.

The Log of Test Borings will be prepared on the project base map.

PHASE II: Preparation of Plans, Specifications, and Estimates

Phase II shall develop the final design of the Project by expanding upon the preferred alternative determined and approved in Phase I. In Phase II, the Consultant shall prepare the Project Construction Bid Documents, including plans, specifications, and estimates.

The Consultant shall include in the Phase II work:

- Preparation of PS&E primarily per County standards and format, supplemented by Caltrans standards and format as appropriate
- Designs for two retaining walls; Tie-backs for the existing Caltrans soldier pile and timber wall; and for the wall type determined in Phase I to repair the slip-out
- Drainage systems for both surface and subsurface drainage, including extending the existing 30" culvert to the toe of the slip-out
- Landscaping (Erosion Control) for surfaces above and below the proposed retaining wall (assumes no irrigation system is required)
- Reconstruction of the slip-out surface below the retaining wall (assumes minimum benching)
- Reconstruction of El Rancho Drive within the Project limits
- PS&E Design Review Submittals at the 65%, 90%, 100%, and Final stages of completion
- It is assumed that the Finalized Preferred Alternative developed in Phase I will be considered the 30% review submittal
- Coordination with Caltrans concerning the design of the tie-backs to their existing retaining wall
- Determination of the areas required for right-of-way acquisition, easements, and permits to enter (Note, preparation of Right-of-Way documents is not included in the Consultant's Scope-of-Work. See the following "Work Not Included")

- Upon completion of final design, the Consultant shall provide to the County reproducible masters of the plans and Construction Bid Documents and copies of both on disk
- Upon completion of the final design, the Consultant shall provide to the County a copy of the Final Probable Construction Cost (Engineer's Estimate)

Work Not Included in the Phase II Scope-of-Work:

- Coordination with other agencies and/or impacted utility companies
- Any activities relating to environmental assessment or clearances
- Pot-holing of existing utilities
- Preparation of the Caltrans Permit Engineering Evaluation Report (PEER) & the Encroachment Permit Application (Note, these items shall be prepared by the County)
- Field Surveys (to be provided by the County)
 - Additional surveys to be provided by the County include:
 - Pick-up of additional topographic features and existing facilities
 - Surveys at roadway conforms
 - Location and alignment of the extended 30" culvert
 - Limited verification checks of the existing surveys of the slip-out
- Right-of-Way Engineering (to be provided by the County)
 - Plat and Legal descriptions (including for easements and permission to enter for construction)
 - Record of Survey (if any)
 - Caltrans Right-of-Way Documents (if any)
 - Necessary Property Title Reports
 - Right-of-Way negotiations
- Reproduction of Bid Sets
- Application fees or fees of any kind
- Construction Support activities
- Construction surveys or staking
- Preparation of Construction Record Drawings

PHASE II : DETAILED SCOPE OF WORK

Task 1: Project Management and Coordination

1.1 Project Management

Project management responsibilities and activities will include the following:

- Clarify tasks and deliverables
- Administer the project
- Prepare progress schedules and status reports detailing progress
- Ensure conformance with County standards and requirements
- Coordinate with representatives of the County

Agency and utility coordination shall be a responsibility of the County. The Consultant shall not have responsibility to make independent contacts and shall coordinate all agency and utility requirements through the County.

1.2 Meetings

This Scope-of-Work provides for only limited meetings with the County. The level of effort provided for is as shown on the Phase II – Staff Hour & Fee Proposal Chart.

Task 2: Caltrans Coordination

2.1 Coordination and Meetings

This Scope-of-Work provides for only limited meetings and coordination with Caltrans. The coordination activities shall be primarily limited to the coordination concerning the proposed design changes to the Caltrans existing retaining wall and responding to questions regarding the design of the proposed slip-out retaining wall. The level of effort provided for is as shown on the Phase II – Staff Hour & Fee Proposal Chart.

Coordination with and work related to other Caltrans issues, such as Encroachment Permit Applications and preparation of a Permit Engineering Evaluation Report (PEER), shall be the responsibility of the County and is not provided for in this Scope-of-Work.

Task 3 Surveys, Mapping, and Right-of-Way

Design Surveys

The County has the responsibility to conduct all field and design surveys required for final design activities. The County will conduct field surveys of the site to supplement the topographic mapping, to provide precise information at project conforms, and to determine the location and alignment of the 30”culvert. Limited surveys will also be conducted to verify the accuracy and appropriateness of the existing surveys of the slip-out.

The Consultant shall coordinate the requested surveys with the appropriate County staff.

Topographic Base Mapping

The Project Topographic Base Mapping shall be developed by the County from the field surveys. The Consultant shall use the Base Mapping developed as the base for the project plans.

Pot-Holing of Existing Utilities

The Consultant shall review the existing utility information obtained by the County and shall identify the locations where pot-holing of utilities are recommended. All other potholing activities and expense is the responsibility of the County.

3.1 Right-of-Way Activities

The Consultant shall identify the right-of-way needed for the project, including all easements and rights-to-enter and transmit this information to the County.

The County shall have full responsibility to develop all necessary plats and legal descriptions, acquire all necessary Title Reports, and to do all other right-of-way related activities, except for the identification of right-of-way needs discussed previously.

Task 4 Miscellaneous Design Activities

4.1 Geotechnical Consultation

The Consultant's Team Geotechnical member shall review and consult on the development of the final design as it pertains to Geotechnical and stability issues.

4.2 Landscape (Erosion Control)

Landscape design for this Project shall be limited to erosion control measures and features that do not require installation of irrigation systems. Landscape (Erosion Control) shall be design for the slopes both above and below the proposed retaining wall.

Task 5 Preparation of Plans, Specifications and Estimates (PS&E)

5.1 Preparation of Plans

The final construction plans developed shall be based on and extend the design alternative that was identified and approved in Phase I of this project. Plans shall be prepared on the AutoCAD Release 14 format and using metric units.

Plans

The plans developed for this project shall be developed using the sheet size, format, and design standards of the County of Santa Cruz. For the Caltrans elements of the Project, Caltrans design standards and formats will be used, as appropriate and as approved by the County. During the development of the final construction plans, submittals for review shall be made at design completion levels of 65%, 90%, and 100% (Final). It is assumed for this proposal that the Preferred Alternative, finalized in Phase I Task 4.4, will constitute the 35% submittal. Submittals shall be made to the County, Caltrans, affected utility companies, and other identified reviewing agencies as required. The Consultant shall provide the County with five (5) copies of each review submittal and the additional copies required for other reviewing agencies and utility companies. The list of the final design drawings is anticipated to include the following:

Description	Scale
Title Sheet and Location Map	Var
Typical Sections	Var
Key Map and General Notes	N/A
Clearing and Grubbing/Demolition	1:1000
Layout Plans/Profiles	1:250
Construction Details	Var
Pavement Elevations (@ Conforms)	1:250
Utility Plans (including Storm Drainage)	1:250
Utility Profiles and Details (including storm drainage)	Var
Stage Construction	1:500
Signing and Striping Plans and Details	1:250
Retaining Wall Plans and Details	1:250
Landscape (Erosion Control) Plans & Details	Var

The Retaining walls will be designed according to Caltrans Bridge Design Specifications, Seismic Design Criteria, and Bridge Memo to Designers. Plans will generally be prepared according to Caltrans Drafting and Plans Manual and as approved by the County.

Utility and Drainage Plans

For County-owned utilities, including storm drainage facilities, the Consultant shall perform all engineering and design required and shall include in the set of construction drawings and documents the relocation or protection of these facilities as a result of the project. The utility drawings shall show all utilities within the project boundaries.

The Consultant shall include in the design and construction drawings, drainage facilities for both surface and underground storm run-off and include the relocation/extension of the existing 30" culvert to the toe of the slip-out.

However, the Consultant shall not perform any engineering nor design associated with the privately owned utility relocations, but shall prepare contract utility coordination drawings only by transferring utility provided horizontal design information and as-built information.

If necessary, the Consultant prepared specifications and special provisions shall include requirements to allow the individual utility companies access to the job site in order to relocate their facilities and to ensure cooperation of the Project's General Contractor.

Stage Construction Plans

The Consultant shall prepare stage construction plans, and traffic handling plans if required, for all the required work. The construction staging and traffic handling plans shall be developed to minimize traffic disruption to the public and maintain access to all adjacent properties.

5.1.1 65% Submittal

The 65% submittal drawings generally represent the complete final design, with all elements present including outline technical specifications and special provisions, contract quantities, and preliminary estimate of construction cost. Also included will be the draft right-of-way requirements and preliminary utility requirements and relocations. Not all project details will be included in this submittal. The Retaining Wall plans shall be complete, but unchecked at this submittal.

5.1.2 90% Submittal

All comments received from the County, Caltrans, and other reviewing agencies and companies on the 65% submittal shall be reconciled and incorporated into the PS&E, as directed by the County.

This 90% submittal shall represent the complete final design, with all design plans and details present and with complete technical specifications and special provisions. The Retaining Wall plans shall be complete, including the independent structure check, as appropriate. The identification of the necessary right-of-way shall be complete.

Final contract quantities for all identified items and the corresponding estimate of construction cost will be included in this submittal.

5.1.2.1 Independent Structures Check – MSE Wall

The Bridge and Structure plans will undergo an independent check by design engineers not previously associated with the design of this wall.

5.1.2.2 Independent Structures Check – Caltrans Tie-back Wall

The Bridge and Structure plans will undergo an independent check by design engineers not previously associated with the design of this wall.

5.1.3 **100% (Final) Submittal**

All comments received from the County, Caltrans, and other reviewing agencies and companies on the 90% submittal shall be reconciled and incorporated into the Final PS&E, as directed by the County. This submittal is intended as a verification check to confirm that all previous review comments have been reconciled and incorporated into the PS&E as appropriate. It is anticipated that no new review comments will be made and that only minor editing comments, if any, would be identified.

5.2 **Quantities and Estimates**

The Consultant shall prepare contract quantities and corresponding construction cost estimates and update them for each submittal. Contract quantities will be developed for each discrete item of work. The estimated unit or lump sum cost for each bid item will be developed from recent bids on similar types of work.

Final quantity calculations shall be checked and included in the final PS&E package. Included in this sub-task is preparation of the set of design crosssections by the Consultant. These cross-sections shall not be a part of the bid set of plans, but will be available at the time of bidding.

5.3 **Specifications and Special Provisions**

Project specifications and special provisions will be prepared for the project. The Consultant shall incorporate final contract technical specifications, calculated quantities, the “boiler plate” as provided by the County, and contract requirements into the Contract Bid Documents. Specifications will be developed using the format as approved by the County.

The County’s standard specifications will be the basis of the project technical specification and these shall be modified and expanded as appropriate to adequately cover all the proposed work.

The Consultant shall include in the special provisions the requirements for the Contractor to prepare the Storm Water Pollution Prevention Plan (SWPPP) for the project.

5.4 **Quality Assurance/Quality Control**

CCS performs an independent check on the design and plans on any project as a matter of course throughout the design process. For each submittal, CCS shall complete its own in-house review prior to submitting the plans, specifications and quantities to the various reviewing agencies.

The Bridge and Structure plans will undergo an independent check by design engineers not previously associated with the design of each individual wall as stated in Task 5.1.2.

5.5 Bid Set Submittals

The final checked and approved set of Bid Documents will be assembled and transmitted to the County. The final form of the documents and plans shall be as required by the County.

The Consultant shall transmit to the County; one set of reproducible full size plan sheets; one set of "camera ready" Bid Documents, including Boiler Plate and technical specifications; the Final Estimate of Probable Construction Cost (Engineer's Estimate); one reproducible set of working design cross-sections; and electronic files of all the submitted plans and documents, except the design cross-sections.

The County shall be responsible for the printing and distribution of all Bid Documents, including the design cross-sections.

5.6 Assistance During Bidding

The CCS Team will be available upon request by the County to assist during the bidding phase of the project for clarifications, revisions, addenda, or other services.

The level of effort for these services shall be limited to that shown on the Staff Hour and Fee Proposal Chart.

5.7 Prepare Design File

The Design File shall be prepared by the Consultant and submitted to the County and shall include design calculations, final quantity calculations, cross-sections, a listing of project contacts, and project correspondence.

Construction support activities including preparation of construction field survey or staking notes, construction engineering or resident engineer support, construction inspection, or preparation of Construction Record Drawings are not provided for nor included in this Scope-of-Work.

CCS PLANNING AND ENGINEERING, INC.
2001 Fee Schedule

0227

CLASSIFICATION	HOURLY RATE
Engineer X	\$180.00
Engineer IX	165.00
Engineer VIII	152.00
Engineer/Planner VII	135.00
Engineer/Planner VI	125.00
Engineer/ Planner V	115.00
Engineer/ Planner IV	102.00
Engineer/Planner III	90.00
Engineer/Planner II	80.00
Engineer/ Planner I	66.00
Technician V	95.00
Technician IV	85.00
Technician III	70.00
Technician II	60.00
Technician I	50.00
Office Support IX	120.00
Office Support VIII	110.00
Office Support VII	100.00
Office Support VI	85.00
Office Support V	72.00
Office Support IV	65.00
Office Support III	52.00
Office Support II	42.00
Office Support I	35.00

CCS PLANNING AND ENGINEERING, INC.
2001 Cost Schedule

0228

Travel & Subsistence Costs:

- Mileage
- Other

\$ 0.33/Mile
Actual Cost

Photo/Film Processing:

Actual Cost

Messenger/Delivery:

Actual Cost

Other Project Related Expenses:

Actual Cost

CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YY)
01/23/01

PRODUCER Professional Practice Insurance Brokers, Inc. 10 California Street Redwood City, CA 94063 550-369-5900	THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER . THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.
INSURERS AFFORDING COVERAGE	
INSURED CCS Planning and Engineering, Inc. 300 Charcot Ave., Suite 100 San Jose, CA 95131	INSURER A: American Motorists Insurance Co. INSURER B: Continental Casualty Co. INSURER C: INSURER D: INSURER E:

COVERAGES
 THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

NSR LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	GENERAL LIABILITY	7RS69697400	7/1/00	7/1/01	EACH OCCURRENCE	\$ 1000000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY				FIRE DAMAGE (Any one fire)	\$ 100000
	<input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR				MED EXP (Any one person)	\$ 5000
					PERSONAL & ADV INJURY	\$ 1000000
					GENERAL AGGREGATE	\$ 2000000
GEN'L AGGREGATE LIMIT APPLIES PER <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC					PRODUCTS - COMPO AGG	\$ 2000003
A	AUTOMOBILE LIABILITY	7WJ30460500	1/11/00	1/11/01	COMBINED SINGLE LIMIT (Ea accident)	\$ 1000000
	<input checked="" type="checkbox"/> ANY AUTO				BODILY INJURY (Per person)	\$
	<input type="checkbox"/> ALL OWNED AUTOS				BODILY INJURY (Per accident)	\$
	<input type="checkbox"/> SCHEDULED AUTOS				PROPERTY DAMAGE (Per accident)	\$
	<input checked="" type="checkbox"/> HIRED AUTOS					
	<input checked="" type="checkbox"/> NON-OWNED AUTOS					
	GARAGE LIABILITY				AUTO ONLY - EA ACCIDENT	\$
	<input type="checkbox"/> ANY AUTO				OTHER THAN AUTO ONLY: EA ACC	\$
					AGG	\$
	EXCESS LIABILITY				EACH OCCURRENCE	\$
	<input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE				AGGREGATE	\$
	<input type="checkbox"/> DEDUCTIBLE					\$
	RETENTION \$					\$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	7CW30460504	9/1/00	9/1/01	<input checked="" type="checkbox"/> WC STATUTORY LIMITS	
					OTHER	
					E.L. EACH ACCIDENT	\$ 1000000
					E.L. DISEASE - EA EMPLOYEE	\$ 1000000
		E.L. DISEASE - POLICY LIMIT	\$ 1000000			
B	OTHER Professional Liability	PRE113961866	7/1/99	7/1/02	Per Claim	\$1000000
					Ann Aggreg	\$1000000
						\$

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS
 Operations of the Named Insured.
 See attached Additional Insured Endorsement. workers' Compensation includes a blanket waiver of subrogation to the extent required under a written contract.
 El Rancho Slide (PS&E)
 Proposal #170-00

CERTIFICATE HOLDER	<input checked="" type="checkbox"/> ADDITIONAL INSURED; INSURER LETTER:	CANCELLATION
COUNTY OF SANTA CRUZ 701 OCEAN STREET, ROOM 410 SANTA CRUZ CA 95060		SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, EXCEPT IN THE EVENT OF CANCELLATION FOR NON-PAYMENT OF PREMIUM IN WHICH CASE 10 DAYS NOTICE WILL BE GIVEN
		AUTHORIZED REPRESENTATIVE

33

IMPORTANT

If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

DISCLAIMER

The Certificate of Insurance on the reverse side of this form does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.



KEMPER PREMIER ENDORSEMENT FOR ARCHITECTURE AND ENGINEERING FIRMS

This blanket endorsement modifies insurance provided under the following:

Named Insured:	CCS Planning and Engineering, Inc.	
Policy Term:	07/01/00 - 07/01/01	Policy No. 7RS69697400

1. THE FOLLOWING IS ADDED TO THE BUSINESS OWNERS LIABILITY COVERAGE FORM, BP 71 08: Item 5. of Section C. -WHO IS AN INSURED, is deleted and replaced by the following:

ADDITIONAL INSURED — BY CONTRACT, AGREEMENT OR PERMIT

Any person or organization to whom or to which you are obligated by virtue of a written contract, agreement or permit to provide such insurance as afforded by this policy is an insured, but only with respect to liability arising out of:

- a. "Your work" for that insured by you, including work or operations performed on your behalf for that insured;
- b. Permits issued by state or political subdivision for operations performed by you; or
- c. Premises you own, rent, occupy or use.

PRIMARY/NON-CONTRIBUTORY — This insurance is primary and is not additional to or contributing with any other insurance carried by or for the benefit of Additional Insureds.

This provision does not apply unless the written contract or agreement has been executed, or the permit has been issued, prior to the "bodily injury," "property damage," "personal injury" or "advertising injury."

This provision does not apply to any person or organization included as an insured under Additional Insured - Vendors.

- 2.

SEPARATION OF INSUREDS — Except with respect to the Limits of Insurance, and any rights or duties specifically assigned in this policy to the first Named Insured, this insurance applies:

- a. As if each Named Insured were the only Named Insured; and
- b. Separately to each Insured against whom claim is made or suit is brought.

- 3.

NOTICE OF CANCELLATION

- a. If we cancel this policy for any reason other than non-payment of premium, we will mail written notice at least 30 days before the effective date of cancellation to the Additional Insureds on file with the Company.
- b. If we cancel this policy for non-payment of premium, we will mail written notice at least 10 days before the effective date of cancellation to the Additional Insureds on file with the Company.

- 4.

WAIVER OF SUBROGATION — V.2.a. Applicable to Businessowners Liability Coverage:

If the insured has rights to recover all or part of any payment we have made under this policy, those rights are transferred to us. This Insurance shall not be invalidated should the Named Insured waive in writing, prior to a loss, any of all rights of recovery against any party for a loss occurring. However, the insured must do nothing after a loss to impair these rights. At our request, the insured will bring "suit" or transfer those rights to us and help us enforce them. This condition does not apply to Medical Expenses Coverage...

Nothing herein contained shall vary, alter or extend any provision or condition of the Policy other than as above stated.

AMERICAN MOTORISTS INSURANCE COMPANY

Gigi Yuen

Authorized Signature

SLOPOT REPAIR PROJECT ON EL RANCHO DRIVE AT LA MADRONA DRIVE
SANTA CRUZ COUNTY
PHASE I - DETERMINATION OF THE PREFERRED ALTERNATIVE
STAFF HOUR & FEE PROPOSAL

TASK	CCS STAFF												PARKER CONSULTANT'S STAFF								FERRIS				TOTAL HOURS Per Sub-Task	TOTAL \$ Per Sub-Task	
	Proj Mgr Engr IX	Sr Eng Eng V	Sr Eng Eng IX	Asst Eng Eng II	Clinical Off Sp III	Total Hr Per Sub-Task	Total Labor \$	Direct Expenses \$	Total \$ Per Sub-Task	Project Manager \$125	Project Engineer \$15	Supervisory Engineer \$30	General Technician \$30	Driller \$60	Technical Support \$10	Total Hr Per Sub-Task	Total Labor \$	Direct Expenses \$	Total \$ Per Sub-Task								
1 Project Management - Phase IA	1.1	4				4	\$660	\$	\$660							4	\$	\$	\$	4	\$	660					
	1.2	1	2	4		7	\$115	\$	\$115							7	\$	\$	\$	7	\$	815					
	1.3	0	0	0	0	0	\$	\$	\$							0	\$	\$	\$	0	\$	\$					
	1.4	0	0	0	0	0	\$	\$	\$							0	\$	\$	\$	0	\$	\$					
	1.5	0	0	0	0	0	\$	\$	\$							0	\$	\$	\$	0	\$	\$					
TASK 1 Total Hours	4	7	4	4	4	19	\$2,295	\$40	\$2,335	0	0	0	0	0	0	19	\$	\$	\$	19	\$	2,335					
TASK 1 Subtotal (\$)	1485	50	590	320	50																						
2 Geotechnical Investigation & Report	2.1	0	0	0	0	0	\$	\$	\$							0	\$	\$	\$	0	\$	\$					
	2.2	0	0	0	0	0	\$	\$	\$							0	\$	\$	\$	0	\$	\$					
	2.3	0	0	0	0	0	\$	\$	\$							0	\$	\$	\$	0	\$	\$					
	2.4	0	0	0	0	0	\$	\$	\$							0	\$	\$	\$	0	\$	\$					
	2.5	0	0	0	0	0	\$	\$	\$							0	\$	\$	\$	0	\$	\$					
	2.6	0	0	0	0	0	\$	\$	\$							0	\$	\$	\$	0	\$	\$					
TASK 2 Total Hours	0	0	0	0	0	0	\$	\$	\$	0	0	0	0	0	0	0	\$	\$	\$	0	\$	\$					
TASK 2 Subtotal (\$)	0	0	0	0	0																						
3 Project Management - Phase IB	3.1	1	12	4	4	8	\$1,320	\$	\$1,320	15	38	39	32	102	10	258	\$1,775	\$18,090	\$36,825	273	\$	39,240					
	3.2	1	12	4	4	8	\$1,320	\$	\$1,320	15	38	39	32	102	10	258	\$1,775	\$18,090	\$36,825	273	\$	39,240					
	3.3	1	12	4	4	8	\$1,320	\$	\$1,320	15	38	39	32	102	10	258	\$1,775	\$18,090	\$36,825	273	\$	39,240					
	3.4	1	12	4	4	8	\$1,320	\$	\$1,320	15	38	39	32	102	10	258	\$1,775	\$18,090	\$36,825	273	\$	39,240					
TASK 3 Total Hours	4	48	16	16	16	48	\$6,960	\$40	\$7,000	0	0	0	0	0	0	48	\$	\$	\$	48	\$	6,960					
TASK 3 Subtotal (\$)	2,970	3,090	25,640	5,640	50																						
4 Preliminary Engineering	4.1	2	4	12	12	18	\$1,750	\$	\$1,750	10	4	32	24	4	16	94	\$7,600	\$	\$	251	\$	7,820					
	4.2	10	16	20	40	22	\$10,984	\$180	\$11,164	10	4	32	24	4	16	94	\$7,600	\$	\$	251	\$	7,820					
	4.3	1	8	8	16	2	\$4,119	\$1,906	\$6,015	10	4	32	24	4	16	94	\$7,600	\$	\$	251	\$	7,820					
	4.4	1	2	2	8	1	\$1,417	\$1,557	\$	10	4	32	24	4	16	94	\$7,600	\$	\$	251	\$	7,820					
	4.5	0	0	0	0	0	\$	\$	\$	10	4	32	24	4	16	94	\$7,600	\$	\$	251	\$	7,820					
TASK 4 Total Hours	16	30	30	76	5	157	\$17,260	\$1,238	\$18,498	10	4	32	24	4	16	94	\$7,600	\$	\$	251	\$	7,820					
TASK 4 Subtotal (\$)	27,640	21,450	24,950	20,080	2,600																						
PHASE IA + PHASE IB TOTALS											239	\$29,090	\$2,340	\$31,830	10	4	32	24	4	16	94	\$7,600	\$	\$	251	\$	7,820
PHASE IB - SUBTOTAL (\$)											239	\$29,090	\$2,340	\$31,830	10	4	32	24	4	16	94	\$7,600	\$	\$	251	\$	7,820
PHASE IA + PHASE IB TOTALS											239	\$29,090	\$2,340	\$31,830	10	4	32	24	4	16	94	\$7,600	\$	\$	251	\$	7,820

PHASE IA + IB - GRAND TOTAL HOURS:											PHASE IA + IB - GRAND TOTAL FEE:											
1	4	7	4	4	4	19	0	0	0	0	19	0	0	0	0	0	48	0	0	0	48	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	4	48	16	16	16	48	6,960	40	7,000	0	0	0	0	0	0	48	0	0	0	48	6,960	
4	16	30	30	76	5	157	17,260	1,238	18,498	10	4	32	24	4	16	94	7,600	0	0	251	7,820	
PHASE IA + PHASE IB TOTALS	34	36	46	84	5	205	24,210	2,340	26,550	10	4	32	24	4	16	94	29,375	15,270	44,645	299	76,475	

NOTES:
1. Direct & Reasonable Expenses include:
- CCS: Reproduction, travel, and computer consultation
- Ferris: Travel, drilling, grouting of drilled holes, Compysical testing, & reproduction
2. The estimated Grand Total Fee is based on work actually performed or expenses incurred on a time and materials basis for the inclusive not-to-exceed total price shown.

PHASE IA + PHASE IB - GRAND TOTAL HOURS:	239
PHASE IA + PHASE IB - GRAND TOTAL FEE:	\$ 76,475

SLIP/OUT REPAIR PROJECT ON EL RANCHO DRIVE AT LA MADRONA DRIVE

SANTA CRUZ COUNTY

PHASE II - FINAL DESIGN & PS&E

STAFF HOUR & FEE PROPOSAL

TOTAL \$ Per Sub-Task	Team Member - SUBCONSULTANTS			CCS STAFF																
	AA/M	WRECO	Parish	Total	Direct Expenses	Total Labor	Total Hrs Per Labor	Clear	Sr Tech	Sr Eng	Engr IX	Engr II	Engr IX	Engr II	Sr Eng	Engr IX	Engr II	Off Sup III	552	
2,188				2,188		16	4													
1,172				1,172		9	1													
3,360				3,360		25	5													
2,970				2,970		18	6													
1,430				1,430		14	7													
1,430				1,430		14	7													
1,430				1,430		14	7													
3,584				3,584		0	0													
2,880				2,880		0	0													
6,464				6,464		0	0													

TASK

TASK 5 Preparation of Plans, Specifications, and Estimates (PS&E)		TASK 4 Subtotal (\$)		TASK 3 Subtotal (\$)		TASK 2 Subtotal (\$)		TASK 1 Subtotal (\$)		TOTAL \$	
5.1 Plans	28	78	90	204	188	588	400	70,430	400	70,430	80,370
5.1.1 65 % Submittal	28	78	34	36	8	90	430	10,520	430	10,520	14,720
5.1.2 90 % Submittal	12	34	36	8							6,000
5.1.2.1 Independent Check - MSE Wall				24	32	64		8,000		8,000	8,000
5.1.2.2 Independent Check - Caltrans Tie-back Wall				32	24	48		6,000		6,000	6,000
5.1.3 100 % (Final) Submittal	4	8	18	16	20	66	400	7,360	400	7,360	9,670
5.2 Quantities & Estimates	2	4	20	28	8	82		7,690		7,690	8,490
5.3 Specifications and Special Provisions	4	54	16					9,926		9,926	10,726
5.4 QA/QC	16							2,744		2,744	2,744
5.5 Bid Documents Submittal	1	4	8				600	1,969		1,969	1,969
5.6 Assistance During Bidding	1	1	4	8	8	24		2,854		2,854	2,854
5.7 Prepare Design File	2	2	12	4	4	24	100	2,494		2,494	2,494
TASK 5 Total Hours	71	186	192	340	276	1081		130,787		130,787	147,987
TASK 5 Subtotal (\$)	\$11,715	\$21,390	\$15,360	\$23,460	\$832			\$128,857	\$1,930	\$130,787	\$147,987
Design Total Hours	95	194	200	352	276	1138		\$138,547	\$1,930	\$140,477	\$162,211
Design : Total Fee (\$)	\$15,675	\$22,310	\$16,000	\$23,460	\$1,092			\$136,617	\$3,584	\$140,201	\$162,211

NOTES: 1. The estimated Grand Total Design Fee is based on work actually performed or expenses incurred on a time and materials basis for the inclusive not-to-exceed total price shown.