

DEPARTMENT OF TRANSPORTATION
DES-OE MS #43
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Sacramento, CA 95816



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November 24, 2003

04-SF-80-13.4,13.8
04-0120E4
ACBRIM-080-(094)N

Addendum No. 2

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in THE CITY AND COUNTY OF SAN FRANCISCO AT YERBA BUENA ISLAND.

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 January 13, 2004.

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 61 is revised. A half-sized copy of the revised sheet is attached for substitution for the like-numbered sheet.

In the Special Provisions, Section 2-1.04, "ALTERNATIVE BIDS," is revised as attached.

In the Special Provisions, Section 2-1.05, "BIDDERS COMPENSATION," the first paragraph is revised as follows:

"The Department recognizes the costs required to prepare bids for a project of this magnitude. To encourage competitive bids, within 90 days of award of the contract, the second and third lowest responsible bidders will each receive \$300,000 to defray a portion of the costs for providing a responsive bid."

In the Special Provisions, Section 3, "AWARD AND EXECUTION OF CONTRACT," is revised as attached.

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

In the Special Provisions, Section 5-1.12, "PROJECT INFORMATION," subsection "INFORMATION HANDOUT," under "District Materials Information," the following item is added to the list of items in the second paragraph:

"G. Preliminary working drawings for Skyway temporary towers"

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In the Special Provisions, Section 5-1.25, PAYMENTS," Item C of the seventh paragraph is revised as follows:

"C. Establish Marine Access \$15,000,000"

In the Special Provisions, Section 5-1.345, "RELATIONS WITH SAN FRANCISCO BAR PILOTS," is added as attached.

In the Special Provisions, Section 8-3.01, "WELDING," is revised as attached.

In the Special Provisions, Section 10-1.10, "TIME-RELATED OVERHEAD," is revised as attached.

In the Special Provisions, Section 10-1.115, "WORKING DRAWING COORDINATION," is added as attached.

In the Special Provisions, Section 10-1.31, STEEL STRUCTURES," the third paragraph which reads as "Erectors shall be certified under the AISC Quality Certification Program, Category CASE, Certified Advanced Steel Erector." is deleted.

In the Proposal and Contract, "PROPOSAL TO THE DEPARTMENT OF TRANSPORTATION, the sixth paragraph is deleted.

In the Proposal and Contract, the Engineer's Estimate Alternate 1 and Alternate 2 Item 6 is revised and the Total Bid pages are revised as attached.

To Proposal and Contract book holders:

Replace the entire Engineer's Estimate in the Proposal with the attached revised Engineer's Estimate. The revised Engineer's Estimate is to be used in the bid.

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 and the modified wage rates are 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

2-1.04 ALTERNATIVE BIDS

The proposal form in the book entitled "Proposal and Contract" for this contract includes 2 schedules of items for which bid prices are asked. The schedules are titled "Engineers Estimate, Alternative 1, Foreign Steel and Iron Alternative" and "Engineers Estimate, Alternative 2, Domestic Steel and Iron Alternative", respectively. The contract items listed for the 2 alternatives are identical.

Attention is directed to "Buy America Requirements" of these special provisions.

The proposal shall set forth, for each Alternative schedule submitted, the unit prices and item totals all in clearly legible figures, in the respective spaces provided, and shall be signed by the bidder, who shall fill out all blanks in the proposal form as therein required.

The bidder has the option to complete the schedule for Alternative 1 on the basis that the provisions of "Buy America Requirements" of these special provisions do not apply to the contract, if the bidder would not use steel and iron materials manufactured in the United States.

All bidders shall complete the schedule for Alternative 2, on the basis that "Buy America Requirements" of these special provisions does apply to the contract. Proposals in which bids for Alternative 2 are not complete, including schedules and forms, will be considered non-responsive and will be rejected.

The determination of the lowest responsible bidder and whether "Buy America Requirements" of these special provisions will apply to the contract will be made in conformance with the provisions in "Award and Execution of Contract," of these special provisions.

Submittal of the schedules for both Alternative 1 and Alternative 2 will not be considered submittal of more than one proposal in conformance with the provisions of Section 2-1.10, "Disqualification of Bidders," of the Standard Specifications.

The proposal includes 2 forms titled "List of Subcontractors," designated to correspond to the 2 Alternative schedules. For each Alternative schedule submitted, the bidder shall submit a completed "List of Subcontractors" form with the proposal. In addition to the subcontractors required to be listed in conformance with Section 2-1.054, "Required Listing of Proposed Subcontractors," of the Standard Specifications, each "List of Subcontractors" shall have listed therein the portion of work that will be performed by each subcontractor listed.

The proposal includes 2 "Caltrans Bidder – DBE – Information" forms and 2 "DBE Information, Good Faith Efforts" forms, designated to correspond to the 2 Alternative schedules. For each Alternative schedule submitted, the bidder shall submit a completed "Caltrans Bidder – DBE – Information" form and a completed "DBE Information, Good Faith Efforts" form with the proposal, in conformance with the provisions in "Submittal of DBE Information," of these special provisions.

The bidder's security required in Section 2-1.07, "Proposal Guaranty," of the Standard Specifications, shall be in an amount equal to at least 10 percent of the amount bid for the greater of the 2 Alternatives. The Bidder's Bond form mentioned in the last paragraph in Section 2-1.07, "Proposal Guaranty," of the Standard Specifications will be found following the signature page of the Proposal.

SECTION 3. AWARD AND EXECUTION OF CONTRACT

The award of the contract, if it be awarded, will be made within 30 days after the opening of the proposals. This period will be subject to extension for such further period as may be agreed upon in writing between the Department and the bidders concerned. The award, if made, will be to the lowest responsible bidder whose proposal complies with all the requirements prescribed and who has met the goal for DBE participation or has demonstrated, to the satisfaction of the Department, adequate good faith efforts to do so. Meeting the goal for DBE participation or demonstrating, to the satisfaction of the Department, adequate good faith efforts to do so is a condition for being eligible for award of contract.

Bids will be compared on the basis of the Engineer's Estimate of the quantities of work to be done and the number of working days for completion of the work, for each Alternative Bid submitted. If the lowest responsive bid for Alternative 2 is more than 25 percent greater than the lowest responsive bid for Alternative 1, the provisions of "Buy America Requirements" of these special provisions will not apply, in conformance with 23 CFR 635.410(b)(3), and the apparent successful bidder (low bidder) will be determined from the bids for Alternative 1. If a proposal does not include a complete bid for Alternative 1, the bid for Alternative 2 submitted by that bidder will be used in the determination of bidder order for Alternative 1. If the lowest responsive bid for Alternative 2 is not more than 25 percent greater than the lowest responsive bid for Alternative 1, the provisions of "Buy America Requirements" of these special provisions will apply, and the apparent successful bidder (low bidder) will be determined from the bids for Alternative 2.

If the apparent low bid is found to be non-responsive, the applicability of "Buy America Requirements" of these special provisions and determination of the low bidder will again be determined in the same manner specified above.

The contract shall be executed by the successful bidder and shall be returned, together with the contract bonds, to the Department so that it is received within 10 days, not including Saturdays, Sundays and legal holidays, after the bidder has received the contract for execution. Failure to do so shall be just cause for forfeiture of the proposal guaranty. The executed contract documents shall be delivered to the following address: Department of Transportation MS 43, Attn: Office Engineer, 1727 30th Street, Sacramento, CA 95816.

A "Payee Data Record" form will be included in the contract documents to be executed by the successful bidder. The purpose of the form is to facilitate the collection of taxpayer identification data. The form shall be completed and returned to the Department by the successful bidder with the executed contract and contract bonds. For the purposes of the form, payee shall be deemed to mean the successful bidder. The form is not to be completed for subcontractors or suppliers. Failure to complete and return the "Payee Data Record" form to the Department as provided herein will result in the retention of 31 percent of payments due the contractor and penalties of up to \$20,000. This retention of payments for failure to complete the "Payee Data Record" form is in addition to any other retention of payments due the Contractor.

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 begin work 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.

A working day as defined in said Section 8-1.06 is re-defined for this project. Paragraph two through paragraph five, inclusive, of said Section 8-1.06 shall not apply. Saturdays, Sundays and legal holidays, including days of inclement weather, will be counted as working days.

The work shall be diligently prosecuted to completion before the expiration of **1130 WORKING DAYS** beginning on the fifteenth calendar day after approval of the contract.

For every working day less than 1130, the Contractor will receive an incentive payment of \$20,000. The total incentive payment will not exceed \$5,000,000.

The Contractor shall pay to the State of California the sum of \$50,000 per day, for each and every calendar day's delay in finishing the work after expiration of the number of working days bid. The maximum number of days specified in Section 3 of these special provisions is considered insufficient to permit completion of the work by the Contractor working a normal number of hours per day or week on a single shift basis. Should the Contractor fail to maintain the progress of the work in conformance with the "Progress Schedule" required in these special provisions, additional shifts will be required to the extent necessary to ensure that the progress conforms to the above mentioned schedule and that the work will be completed within the time limit specified.

Full compensation for any additional costs occasioned by compliance with the provisions in this section shall be considered as included in the contract prices paid for the various items for work involved and no additional compensation will be allowed therefor.

5-1.345 RELATIONS WITH SAN FRANCISCO BAR PILOTS

This project is located in the Bay of San Francisco, in which shipping vessels are under the jurisdiction of the San Francisco Bar Pilots. Attention is directed to Division 5, "Pilots for Monterey Bay and the Bays of San Francisco, San Pablo, and Suisun" of the California Harbors and Navigation Code.

Full compensation for conforming to the requirements of the San Francisco Bar Pilots shall be considered as included in the contract prices paid for the various contract items of work and no additional compensation will be allowed therefor.

8-3.01 WELDING

GENERAL

Flux core welding electrodes conforming to the requirements of AWS A5.20 E6XT-4 or E7XT-4 shall not be used to perform welding for this project.

Wherever reference is made to the following AWS welding codes in the Standard Specifications, on the plans, or in these special provisions, the year of adoption for these codes shall be as listed:

AWS Code	Year of Adoption
D1.1	2002
D1.4	1998
D1.5	2002
D1.6	1999

Requirements of the AWS welding codes shall apply unless specified otherwise in the Standard Specifications, on the plans, or in these special provisions. Wherever the abbreviation AWS is used, it shall be equivalent to the abbreviations ANSI/AWS or AASHTO/AWS.

Section 6.1.1.1 of AWS D1.5 is replaced with the following:

Quality Control (QC) shall be the responsibility of the Contractor. As a minimum, the Contractor shall perform inspection and testing of each weld joint prior to welding, during welding, and after welding as specified in this section and as necessary to ensure that materials and workmanship conform to the requirements of the contract documents.

Sections 6.1.3 through 6.1.4.3 of AWS D1.1, Section 7.1.2 of AWS D1.4, and Sections 6.1.1.2 through 6.1.3.3 of AWS D1.5 are replaced with the following:

The QC Inspector shall be the duly designated person who acts for and on behalf of the Contractor for inspection, testing, and quality related matters for all welding.

Quality Assurance (QA) is the prerogative of the Engineer. The QA Inspector is the duly designated person who acts for and on behalf of the Engineer.

The QC Inspector shall be responsible for quality control acceptance or rejection of materials and workmanship, and shall be currently certified as an AWS Certified Welding Inspector (CWI) in conformance with the requirements in AWS QC1, "Standard for AWS Certification of Welding Inspectors."

The QC Inspector may be assisted by an Assistant QC Inspector provided that this individual is currently certified as an AWS Certified Associate Welding Inspector (CAWI) in conformance with the requirements in AWS QC1, "Standard for AWS Certification of Welding Inspectors." The Assistant QC Inspector may perform inspection under the direct supervision of the QC Inspector provided the Assistant is always within visible and audible range of the QC Inspector. The QC Inspector shall be responsible for signing all reports and for determining if welded materials conform to workmanship and acceptance criteria. The ratio of QC Assistants to QC Inspectors shall not exceed 5 to 1.

When the term "Inspector" is used without further qualification, it shall refer to the QC Inspector.

Section 6.14.6, "Personnel Qualification," of AWS D1.1, Section 7.8, "Personnel Qualification," of AWS D1.4, and Section 6.1.3.4, "Personnel Qualification," of AWS D1.5 are replaced with the following:

Personnel performing nondestructive testing (NDT) shall be qualified and certified in conformance with the requirements of the American Society for Nondestructive Testing (ASNT) Recommended Practice No. SNT-TC-1A and the Written Practice of the NDT firm. The Written Practice of the NDT firm shall meet or exceed the guidelines of the ASNT Recommended Practice No. SNT-TC-1A. Individuals who perform NDT, review the results, and prepare the written reports shall be either:

- A. Certified NDT Level II technicians, or;
- B. Level III technicians who hold a current ASNT Level III certificate in that discipline and are authorized and certified to perform the work of Level II technicians.

Section 6.5.4 of AWS D1.5 is replaced with the following:

The QC Inspector shall inspect and approve each joint preparation, assembly practice, welding technique, joint fit-up, and the performance of each welder, welding operator, and tack welder to make certain that the applicable requirements of this code and the approved Welding Procedure Specification (WPS) are met. The QC Inspector shall examine the work to make certain that it meets the requirements of Sections 3 and 6.26. The size and contour of all welds shall be measured using suitable gages. Visual inspection for cracks in welds and base metal, and for other discontinuities should be aided by strong light magnifiers, or such other devices as may be helpful. Acceptance criteria different from those specified in this code may be used when approved by the Engineer.

Section 6.6.5, "Nonspecified NDT Other than Visual," of AWS D1.1, Section 6.6.5 of AWS D1.4 and Section 6.6.5 of AWS D1.5 shall not apply.

For any welding, the Engineer may direct the Contractor to perform NDT that is in addition to the visual inspection or NDT specified in the AWS or other specified welding codes, in the Standard Specifications, or in these special provisions. Additional NDT required by the Engineer will be paid for as extra work as provided in Section 4-1.03D, "Extra Work," of the Standard Specifications. Should any welding deficiencies be discovered by this additional NDT, all costs associated with the repair of the deficient area, including NDT of the weld and of the weld repair, and any delays caused by the repair, shall be at the Contractor's expense.

Repair work to correct welding deficiencies discovered by visual inspection or NDT, or by additional NDT directed or performed by the Engineer, and any associated delays or expenses caused to the Contractor by performing these repairs, shall be at the Contractor's expense.

The Engineer shall have the authority to verify the qualifications or certifications of any welder, QC Inspector, or NDT personnel to specified levels by retests or other means approved by the Engineer.

Continuous inspection shall be provided when any welding is being performed. Continuous inspection, as a minimum, shall include having a QC Inspector within such close proximity of all welders or welding operators so that inspections by the QC Inspector of each welding operation at each welding location shall not lapse for a period exceeding 30 minutes.

Inspection and approval of all joint preparations, assembly practices, joint fit-ups, welding techniques, and the performance of each welder, welding operator, and tack welder shall be documented by the QC Inspector on a daily basis for each day welding is performed. For each inspection, including joint fit-up, Welding Procedure Specification (WPS) verification, and final weld inspection, the QC Inspector shall confirm and document compliance with the requirements of the AWS or other specified code criteria and the requirements of these special provisions on all welded joints before welding, during welding, and after the completion of each weld.

When joint weld details that are not prequalified to the details of Section 3 of AWS D1.1 or to the details of Figure 2.4 or 2.5 of AWS D1.5 are proposed for use in the work, the joint details, their intended locations, and the proposed welding parameters and essential variables, will be approved by the Engineer. The Engineer shall have 2 weeks to complete the review of the proposed joint detail locations. In the event the Engineer fails to complete the review within the time allowed, and if, in the opinion of the Engineer, completion of the work is delayed or interfered with by reason of the Engineer's delay in completing the review, the Contractor will be compensated for any resulting loss, and an extension of time will be granted, in the same manner as provided for in Section 8-1.09, "Right of Way Delays," of the Standard Specifications. Upon approval of the proposed joint detail locations and qualification of the proposed joint details, welders and welding operators using these details shall perform a qualification test plate using the WPS variables and the joint detail to be used in production. The test plate shall have the maximum thickness to be used in production and a minimum length of 180 mm and minimum finish welded width 460 mm. The test plate shall be mechanically and radiographically tested. Mechanical and radiographic testing and acceptance criteria shall be as specified in the applicable AWS codes.

In addition to the requirements specified in the applicable code, the period of effectiveness for a welder's or welding operator's qualification shall be a maximum of 3 years for the same weld process, welding position, and weld type. If production welding will be performed without gas shielding, then qualification shall also be without gas shielding. Excluding welding of fracture critical members, a valid qualification at the beginning of work on a contract will be acceptable for the entire period of the contract, as long as the welder's or welding operator's work remains satisfactory.

The Engineer will witness all qualification tests for WPSs that were not previously approved by the Department. An approved independent third party will witness the qualification tests for welders or welding operators. The independent third party shall be a current CWI and shall not be employed by the contractor performing the welding. The Engineer shall have 2 weeks to review the qualifications and copy of the current certification of the independent third party. In the event the Engineer fails to complete the review within the time allowed, and if, in the opinion of the Engineer, completion of the work is delayed or interfered with by reason of the Engineer's delay in completing the review, the Contractor will be compensated for any resulting loss, and an extension of time will be granted, in the same manner as provided for in Section 8-1.09, "Right of Way Delays," of the Standard Specifications. The Contractor shall notify the Engineer one week prior to performing any qualification tests. Witnessing of qualification tests by the Engineer shall not constitute approval of the intended joint locations, welding parameters, or essential variables.

In addition to the requirements of AWS D1.5 Section 5.12 or 5.13, welding procedures qualification, for work welded in conformance with that code, shall conform to the following requirements:

- A. Unless considered prequalified, fillet welds, including reinforcing fillet welds, shall be qualified in each position. The fillet weld soundness test shall be conducted using the essential variables of the WPS as established by the Procedure Qualification Record (PQR.)
- B. For qualification of joints that do not conform to Figures 2.4 and 2.5 of AWS D1.5, two WPS qualification tests are required. The tests conforming to AWS D1.5 Section 5.13 shall be conducted using both Figure 5.1 and Figure 5.3. The test conforming to Figure 5.3 shall be conducted using the same welding electrical parameters that were established for the test conducted conforming to Figure 5.1.
- C. The travel speed, current, and voltage values that are used for tests conducted per AWS D1.5 Section 5.12 or 5.13 shall be consistent for each weld joint, and shall in no case vary by more than 10 percent for travel speed, 10 percent for current, and 7 percent for voltage.
- D. For a WPS qualified in conformance with AWS D1.5 Section 5.13, the values to be used for calculating ranges for current and voltage shall be based on the average of all weld passes made in the test. Heat input shall be calculated using the average of current and voltage of all weld passes made in the test for a WPS qualified in conformance with Section 5.12 or 5.13.
- E. To qualify for unlimited material thickness, two qualification tests are required for WPSs utilized for welding material thicknesses greater than 38 mm. One test shall be conducted using 20-mm thick test plates, and one test shall be conducted using test plates with a thickness between 38 mm and 50 mm. Two maximum heat input tests may be conducted for unlimited thickness qualification.
- F. Macroetch tests are required for WPS qualification tests, and acceptance shall be per AWS D1.5 Section 5.19.3.
- G. When a weld joint is to be made using a combination of qualified WPSs, each process shall be qualified separately.
- H. When a weld joint is to be made using a combination of qualified and prequalified processes, the WPS shall reflect both processes and the limitations of essential variables, including weld bead placement, for both processes.
- I. Prior to preparing mechanical test specimens, the PQR welds shall be inspected by visual and radiographic tests. Backing bar shall be 75 mm in width and shall remain in place during NDT testing. Results of the visual and radiographic tests shall comply with AWS D1.5 Section 6.26.2, excluding Section 6.26.2.2. Test plates that do not comply with both tests shall not be used.

WELDING QUALITY CONTROL

Welding quality control shall conform to the requirements in the AWS or other specified welding codes, the Standard Specifications, and these special provisions.

Unless otherwise specified, welding quality control shall apply when any work is welded in conformance with the provisions in Section 49, "Piling," Section 52, "Reinforcement," Section 55, "Steel Structures," or Section 75-1.035, "Bridge Joint Restrainer Units," of the Standard Specifications.

In addition, welding quality control shall apply when welding is performed for the following work:

- A. Miscellaneous metal

The welding of fracture critical members (FCMs) shall conform to the provisions specified in the Fracture Control Plan (FCP) and herein.

The Contractor shall designate in writing a welding Quality Control Manager (QCM). The QCM shall be responsible directly to the Contractor for the quality of welding, including materials and workmanship, performed by the Contractor and subcontractors.

The QCM shall be the sole individual responsible to the Contractor for submitting, receiving, reviewing, and approving all correspondence, required submittals, and reports to and from the Engineer. The QCM shall be a registered professional engineer or shall be currently certified as a CWI or a CAWI.

The QCM shall not be employed or compensated by any subcontractor, or by other persons or entities hired by subcontractors, who will provide other services or materials for the project. The QCM may be an employee of the Contractor.

Welding inspection personnel or NDT firms to be used in the work shall not be employed or compensated by any subcontractor, or by other persons or entities hired by subcontractors, who will provide other services or materials for the project, except for the following conditions:

- A. The work is welded in conformance with AWS D1.5 and is performed at a permanent fabrication or manufacturing facility which is certified under the AISC Quality Certification Program, Category Cbr, Major Steel Bridges and Fracture Critical endorsement F.
- B. The welding is performed on pipe pile material at a permanent pipe manufacturing facility authorized to apply the American Petroleum Institute (API) monogram for API 5L pipe.

For welding performed at such facilities, the inspection personnel or NDT firms may be employed or compensated by the facility performing the welding.

Prior to submitting the Welding Quality Control Plan (WQCP) required herein, a pre-welding meeting between the Engineer, the Contractor's QCM, and a representative from each entity performing welding or inspection for this project, shall be held to discuss the requirements for the WQCP.

The Contractor shall submit to the Engineer, in conformance with the provisions in Section 5-1.02, "Plans and Working Drawings," of the Standard Specifications, 2 copies of a separate WQCP for each subcontractor or supplier for each item of work for which welding is to be performed.

The Contractor shall allow the Engineer 2 weeks to review the WQCP submittal after a complete plan has been received. No welding shall be performed until the WQCP is approved in writing by the Engineer. In the event the Engineer fails to complete the review within the time allowed, and if, in the opinion of the Engineer, completion of the work is delayed or interfered with by reason of the Engineer's delay in completing the review, the Contractor will be compensated for any resulting loss, and an extension of time will be granted, in the same manner as provided for in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

An amended WQCP or any addendum to the approved WQCP shall be submitted to, and approved in writing by the Engineer, for proposed revisions to the approved WQCP. An amended WQCP or addendum will be required for revisions to the WQCP, including but not limited to a revised WPS; additional welders; changes in NDT firms, QC, or NDT personnel or procedures; or updated systems for tracking and identifying welds. The Engineer shall have 1 week to complete the review of the amended WQCP or addendum. Work affected by the proposed revisions shall not be performed until the amended WQCP or addendum has been approved. In the event the Engineer fails to complete the review within the time allowed, and if, in the opinion of the Engineer, completion of the work is delayed or interfered with by reason of the Engineer's delay in completing the review, the Contractor will be compensated for any resulting loss, and an extension of time will be granted, in the same manner as provided for in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

Information regarding the contents, format, and organization of a WQCP, is available at the Transportation Laboratory or the following website:

<http://www.dot.ca.gov/hq/esc/Translab/smbresources.htm>

After final approval of the WQCP, amended WQCP, or addendum, the Contractor shall submit 7 copies to the Engineer of the approved documents. A copy of the Engineer approved document shall be available at each location where welding is to be performed

A daily production log for welding shall be kept for each day that welding is performed. The log shall clearly indicate the locations of all welding. The log shall include the welders' names, amount of welding performed, any problems or deficiencies discovered, and any testing or repair work performed, at each location. The daily report from each QC Inspector shall also be included in the log.

The following items shall be included in a Welding Report that is to be submitted to the Engineer within 10 days following the performance of any welding:

- A. Reports of all visual weld inspections and NDT.
- B. Radiographs and radiographic reports, and other required NDT reports.
- C. Documentation that the Contractor has evaluated all radiographs and other nondestructive tests and corrected all rejectable deficiencies, and all repaired welds have been reexamined by the required NDT and found acceptable.
- D. Daily production log.

The following information shall be clearly written on the outside of radiographic envelopes: name of the QCM, name of the nondestructive testing firm, name of the radiographer, date, contract number, complete part description, and all included weld numbers or a report number, as detailed in the WQCP. In addition, all innerleaves shall have clearly written on them the part description and all included weld numbers, as detailed in the WQCP.

Reports regarding NDT shall be signed by both the NDT technician and the person that performed the review, and then submitted directly to the QCM for review and signature prior to submittal to the Engineer. Corresponding names shall be clearly printed or typewritten next to all signatures.

The Engineer will review the Welding Report to determine if the Contractor is in conformance with the WQCP. Unless otherwise specified, the Engineer shall be allowed 10 days to review the report and respond in writing after a complete Welding Report has been received. Prior to receiving notification from the Engineer of the Contractor's conformance with the WQCP, the Contractor may encase in concrete or cover welds for which a Welding Report has been submitted. However, should the Contractor elect to encase or cover those welds prior to receiving notification from the Engineer, it is expressly understood that the Contractor shall not be relieved of the responsibility for incorporating material in the work that conforms to the requirements of the plans and specifications. Material not conforming to these requirements will be subject to rejection. Should the Contractor elect to wait to encase or cover welds pending notification by the Engineer, and in the event the Engineer fails to complete the review within the time allowed, and if, in the opinion of the Engineer, completion of the work is delayed or interfered with by reason of the Engineer's delay in completing the review, the Contractor will be compensated for any resulting loss, and an extension of time will be granted, in the same manner as provided for in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

The QC Inspector shall provide reports to the QCM on a daily basis for each day that welding is performed.

Except for noncritical weld repairs, the Engineer shall be notified immediately in writing when welding problems, deficiencies, base metal repairs, or any other type of repairs not submitted in the WQCP are discovered, and also of the proposed repair procedures to correct them. The Contractor shall allow the Engineer one week to review these procedures. No remedial work shall begin until the repair procedures are approved in writing by the Engineer. In the event the Engineer fails to complete the review within the time allowed, and if, in the opinion of the Engineer, completion of the work is delayed or interfered with by reason of the Engineer's delay in completing the review, the Contractor will be compensated for any resulting loss, and an extension of time will be granted, in the same manner as provided for in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

The QCM shall sign and furnish to the Engineer, a Certificate of Compliance in conformance with the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications for each item of work for which welding was performed. The certificate shall state that all of the materials and workmanship incorporated in the work, and all required tests and inspections of this work, have been performed in conformance with the details shown on the plans, the Standard Specifications, and these special provisions.

PAYMENT

Full compensation for conforming to the requirements of "Welding," and "Welding Quality Control," shall be considered as included in the contract prices paid for the various items of work involved and no additional compensation will be allowed therefor.

10-1.10 TIME-RELATED OVERHEAD

The Contractor will be compensated for time-related overhead in conformance with these special provisions.

Attention is directed to "Beginning of Work, Time of Completion and Liquidated Damages," "Force Account Payment," and "Progress Schedule (Critical Path Method)" of these special provisions.

The provisions in Section 9-1.08, "Adjustment of Overhead Costs," of the Standard Specifications shall not apply.

Time-related overhead shall consist of those overhead costs, including field and home office overhead, that are in proportion to the time required to complete the work. Time-related overhead shall not include costs that are not related to time, including but not limited to, mobilization, licenses, permits, and other charges incurred only once during the contract.

Field office overhead expenses include time-related costs associated with the normal and recurring operations of the construction project, and shall not include costs directly attributable to the work of the contract. Time-related costs of field office overhead include, but are not limited to, salaries, benefits, and equipment costs of project managers, general superintendents, field office managers and other field office staff assigned to the project, and rent, utilities, maintenance, security, supplies, and equipment costs of the project field office.

Home office overhead or general and administrative expenses refer to the fixed costs of operating the Contractor's business. These costs include, but are not limited to, general administration, insurance, personnel and subcontract administration, purchasing, accounting, and project engineering and estimating. Home office overhead costs shall exclude expenses specifically related to other contracts or other businesses of the Contractor, equipment coordination, material deliveries, and consultant and legal fees.

The quantity of time-related overhead associated with a reduction in contract time for cost reduction incentive proposals accepted and executed in conformance with the provisions in Section 5-1.14, "Cost Reduction Incentive," of the Standard Specifications shall be considered a construction cost attributable to the resultant estimated net savings due to the cost reduction incentive.

If the final increased quantity of time-related overhead exceeds 149 percent of the number of working days specified in the Engineer's Estimate, the Contractor shall, within 60 days of the Engineer's written request, submit to the Engineer an audit examination and report performed by an independent Certified Public Accountant of the Contractor's actual overhead costs. The independent Certified Public Accountant's audit examination shall be performed in conformance with the requirements of the American Institute of Certified Public Accountants Attestation Standards. The audit examination and report shall depict the Contractor's project and company-wide financial records and shall specify the actual overall average daily rates for both field and home office overhead for the entire duration of the project, and whether the costs have been properly allocated. The rates of field and home office overhead shall exclude unallowable costs as determined in the Federal Acquisition Regulations, 48 CFR, Chapter 1, Part 31. The audit examination and report shall determine if the rates of field office overhead and home office overhead are:

- A. Allowable in conformance with the requirements of the Federal Acquisition Regulations, 48 CFR, Chapter 1, Part 31.
- B. Adequately supported by reliable documentation.
- C. Related solely to the project under examination.

Within 20 days of receipt of the Engineer's written request, the Contractor shall make its financial records available for audit by the State for the purpose of verifying the actual rate of time-related overhead specified in the audit submitted by the Contractor. The actual rate of time-related overhead specified in the audit, submitted by the Contractor, will be subject to approval by the Engineer.

If the Engineer requests the independent Certified Public Accountant audit, or if it is requested in writing by the Contractor, the contract item payment rate for time-related overhead, in excess of 149 percent of the number of working days specified in the Engineer's Estimate, will be adjusted to reflect the actual rate.

The cost of performing an independent Certified Public Accountant audit examination and submitting the report, requested by the Engineer, will be borne equally by the State and the Contractor. The division of the cost will be made by determining the cost of providing an audit examination and report in conformance with the provisions of Section 9-1.03B, "Work Performed by Special Forces or Other Special Services," of the Standard Specifications, and paying to the Contractor one-half of that cost. The cost of performing an audit examination and submitting the independent Certified Public Accountant audit report for overhead claims other than for the purpose of verifying the actual rate of time-related overhead shall be entirely borne by the Contractor.

The quantity of time-related overhead to be paid will be measured by the working day, designated in the Engineer's Estimate as WDAY. The estimated number of working days is the number of working days, excluding days for plant establishment, as specified in "Beginning of Work, Time of Completion and Liquidated Damages" of these special provisions. The quantity of time-related overhead will be increased or decreased only as a result of suspensions or adjustments of contract time which revise the current contract completion date, and which satisfy any of the following criteria:

A. Suspensions of work ordered in conformance with the provisions in Section 8-1.05, "Temporary Suspension of Work," of the Standard Specifications, except:

1. Suspensions ordered due to weather conditions being unfavorable for the suitable prosecution of the controlling operation or operations.
2. Suspensions ordered due to the failure on the part of the Contractor to carry out orders given, or to perform the provisions of the contract.
3. Suspensions ordered due to factors beyond the control of and not caused by the State or the Contractor, for which the Contractor is granted extensions of time in conformance with the provisions of the third paragraph of Section 8-1.07, "Liquidated Damages," of the Standard Specifications.
4. Other suspensions that mutually benefit the State and the Contractor.

B. Extensions of contract time granted by the State in conformance with the provisions in the fifth paragraph in Section 8-1.07, "Liquidated Damages," of the Standard Specifications and set forth in approved contract change orders, in conformance with the provisions in Section 4-1.03, "Changes," of the Standard Specifications.

C. Reductions in contract time set forth in approved contract change orders, in conformance with the provisions in Section 4-1.03, "Changes," of the Standard Specifications.

In the event an early completion progress schedule, as defined in "Progress Schedule (Critical Path Method)" of these special provisions, is submitted by the Contractor and approved by the Engineer, the amount of time-related overhead eligible for payment will be based on the total number of working days for the project, in conformance with the provisions in "Beginning of Work, Time of Completion and Liquidated Damages" of these special provisions, rather than the Contractor's early completion progress schedule.

The contract price paid per working day for time-related overhead shall include full compensation for time-related overhead, including the Contractor's share of costs of the independent Certified Public Accountant audit of overhead costs requested by the Engineer, as specified in these special provisions, and as directed by the Engineer.

The provisions in Sections 4-1.03B, "Increased or Decreased Quantities," and 4-1.03C, "Changes in Character of the Work," of the Standard Specifications shall not apply to the contract item of time-related overhead.

Full compensation for additional overhead costs involved in incentive and disincentive provisions to satisfy internal milestone or multiple calendar requirements shall be considered as included in the contract items of work involved and no additional compensation will be allowed therefor.

Full compensation for additional overhead costs incurred during days of inclement weather when the contract work is extended into additional construction seasons due to delays caused by the State shall be considered as included in the time-related overhead paid during the contract working days, and no additional compensation will be allowed therefor.

Full compensation for additional overhead costs involved in performing additional contract item work that is not a controlling operation shall be considered as included in the contract items of work involved and no additional compensation will be allowed therefor.

Full compensation for overhead, other than time-related overhead measured and paid for as specified above, and other than overhead costs included in the markups specified in "Force Account Payment" of these special provisions, shall be considered as included in the various items of work and no additional compensation will be allowed therefor.

Overhead costs incurred by joint venture partners, subcontractors, suppliers or other parties associated with the Contractor shall be considered as included in the various overhead costs for which the Contractor is compensated, and no additional compensation will be allowed therefor.

For the purpose of making partial payments pursuant to the provisions in Section 9-1.06, "Partial Payments," of the Standard Specifications, the number of working days to be paid for time-related overhead in each monthly partial payment will be the number of working days, specified above to be measured for payment that occurred during that monthly estimate period, including compensable suspensions and right of way delays. Working days granted by contract change order due to extra work or changes in character of the work, will be paid for upon completion of the contract. The amount earned per working day for time-related overhead shall be the lesser of the following amounts:

- A. The contract item price.
- B. Twenty percent of the original total contract amount divided by the number of working days specified in "Beginning of Work, Time of Completion and Liquidated Damages," of these special provisions.

After acceptance of the contract in conformance with the provisions in Section 7-1.17, "Acceptance of Contract," of the Standard Specifications, the amount of the total contract item price for time-related overhead not yet paid, will be included for payment in the first estimate made after acceptance of the contract in conformance with the provisions in Section 9-1.07, "Payment After Acceptance," of the Standard Specifications.

10-1.115 WORKING DRAWING COORDINATION

The Contractor shall provide an on-site Coordination Engineer to facilitate early resolution of construction working drawings. The Coordination Engineer shall be a full time, on-site, registered Civil Engineer in the State of California, and available to coordinate, manage, and process shop/working drawings for the project. The Department will make its Design Engineers available for consultation on site with the contractor's engineers and detailers who are preparing working drawings.

At the Contractor's option, a Working Drawing Campus may be used to facilitate preparation, submittal, review, and processing of working drawings. The Working Drawing Campus shall conform to these special provisions.

The Contractor shall provide a submittal for the Working Drawing Campus within the first 30 calendar days of award of contract. The submittal shall show the location of the office, layout of the office space and meeting room, and list of the furnishing, including office computer, telephone, desk and chairs to be supplied. The Department will review the working drawing submittal within 5 working days.

The Working Drawing Campus will focus on the most critical and time dependent working drawings first to prevent delay to the project schedule. It is the Contractor's responsibility to submit working drawings sufficiently in advance of the start of the affected work, in accordance with "Working Drawings" of these special provisions.

The Contractor shall provide the following for the Working Drawing Campus:

1. Suitable office facilities within 25 km of the San Francisco Oakland Bay Bridge Toll Plaza for a minimum of one year. The facilities shall include workspace for the Contractor's staff as determined by the Contractor plus a minimum of 4 vacant, separate office cubicles or rooms intended for the use by the Department or its representatives, and a common meeting room with meeting table to seat a minimum of 6 people. The facilities shall also include access to a copier, and a fax machine. Each workspace shall include a minimum of a desk, office chair, bookshelf, phone, and T1 computer cabling. The Contractor is responsible for providing local phone service, internet access and building utility services.
2. Full time, on-site staff authorized by the Contractor to be capable of producing and revising working drawings, and in conjunction with such work generating and assisting in resolution of requests for information and potentially resultant change orders. It is not required that all the Contractor's design staff be located on-site.
3. Regularly scheduled submittal status meetings (daily if required) to discuss the status and resolve shop/working drawing issues, attended by representatives of the Engineer and the Contractor's coordinator and staff as appropriate.
4. Regular updates of the working drawing submittal schedule specified in "Working Drawing Submittal Schedule," of these special provisions.

Conformance with these special provisions does not relieve the Contractor of the responsibility for furnishing complete shop/working drawings or producing finished work of the quality specified in the Standard Specifications, these special provisions and as shown on the plans.

Full compensation for providing an on-site Coordination Engineer and a Working Drawing Campus in accordance with the requirements of this section shall be considered as included in the contract prices paid for the various items of work involved and no additional compensation will be allowed therefor.

ENGINEER'S ESTIMATE
04-0120E4
ALTERNATIVE 1 FOREIGN STEEL AND IRON ALTERNATIVE

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	030627	ELECTRONIC MOBILE DAILY DIARY COMPUTER SYSTEM DATA DELIVERY	LS	LUMP SUM	LUMP SUM	
2	030628	TRANSPORTATION FOR THE ENGINEER	LS	LUMP SUM	LUMP SUM	
3	030629	CONSTRUCTION SURVEYING	LS	LUMP SUM	LUMP SUM	
4	030630	PILE CORROSION MONITORING SYSTEM	LS	LUMP SUM	LUMP SUM	
5	070012	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS	LUMP SUM	LUMP SUM	
6	070018	TIME-RELATED OVERHEAD	WDAY	1130		
7	074019	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	LUMP SUM	LUMP SUM	
8	074020	WATER POLLUTION CONTROL	LS	LUMP SUM	LUMP SUM	
9	030631	NON-STORM WATER DISCHARGES	LS	LUMP SUM	LUMP SUM	
10	030632	TURBIDITY CONTROL	LS	LUMP SUM	LUMP SUM	
11	074032	TEMPORARY CONCRETE WASHOUT FACILITY	LS	LUMP SUM	LUMP SUM	
12 (S)	490672	2.5 M CAST-IN-DRILLED-HOLE CONCRETE PILING	M	423		
13 (S)	049245	2.2 M CAST-IN-DRILLED-HOLE CONCRETE PILING (ROCK SOCKET)	M	390		
14 (S)	049246	FURNISH 2.5 M CAST-IN-STEEL SHELL CONCRETE PILING	M	1694		
15 (S)	049247	DRIVE 2.5 M CAST-IN-STEEL SHELL CONCRETE PILE	EA	16		
16 (S)	049248	2.5 M PERMANENT STEEL CASING	M	423		
17 (S-F)	049249	MARINE PILE DRIVING ENERGY ATTENUATOR	LS	LUMP SUM	LUMP SUM	
18 (F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	M3	7030		
19 (F)	049250	STRUCTURAL CONCRETE, BRIDGE FOOTING (LIGHTWEIGHT)	M3	2300		
20 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	M3	1640		

ENGINEER'S ESTIMATE**04-0120E4****ALTERNATIVE 1**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	049251	NONSHRINK GROUT	LS	LUMP SUM	LUMP SUM	
22	049252	NONSHRINK FIBER-REINFORCED GROUT	LS	LUMP SUM	LUMP SUM	
23 (S-F)	520102	BAR REINFORCING STEEL (BRIDGE)	KG	2 495 000		
24 (S-F)	520110	BAR REINFORCING STEEL (EPOXY COATED) (BRIDGE)	KG	801 000		
25 (S-F)	520120	HEADED BAR REINFORCEMENT	EA	3020		
26 (F)	550203	FURNISH STRUCTURAL STEEL (BRIDGE)	KG	3 960 000		
27 (F)	550204	ERECT STRUCTURAL STEEL (BRIDGE)	KG	3 960 000		
28 (S)	590115	CLEAN AND PAINT STRUCTURAL STEEL	LS	LUMP SUM	LUMP SUM	
29 (S)	049253	FURNISH AND INSTALL STEEL DOWNHOLE CASING E	LS	LUMP SUM	LUMP SUM	
30 (S-F)	750501	MISCELLANEOUS METAL (BRIDGE)	KG	8380		
31	800391	CHAIN LINK FENCE (TYPE CL-1.8)	M	150		
32	833080	CONCRETE BARRIER (TYPE K)	M	72		
33	030633	GROUNDING FOR PIERS E2 AND T1 FOUNDATIONS	LS	LUMP SUM	LUMP SUM	
34	030634	NAVIGATION LIGHTING SYSTEM	LS	LUMP SUM	LUMP SUM	
35	030635	STRONG MOTION DETECTION DOWNHOLE	LS	LUMP SUM	LUMP SUM	
36 (S-F)	030965	PLASTIC LUMBER	M3	145		
37 (S-F)	030966	UHMW POLYETHYLENE PANEL (50 MM)	M2	930		
38	049400	ESTABLISH MARINE ACCESS	LS	LUMP SUM	LUMP SUM	
39	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

TOTAL BID (ALTERNATIVE 1):

ENGINEER'S ESTIMATE
04-0120E4
ALTERNATIVE 2 DOMESTIC STEEL AND IRON ALTERNATIVE

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	030627	ELECTRONIC MOBILE DAILY DIARY COMPUTER SYSTEM DATA DELIVERY	LS	LUMP SUM	LUMP SUM	
2	030628	TRANSPORTATION FOR THE ENGINEER	LS	LUMP SUM	LUMP SUM	
3	030629	CONSTRUCTION SURVEYING	LS	LUMP SUM	LUMP SUM	
4	030630	PILE CORROSION MONITORING SYSTEM	LS	LUMP SUM	LUMP SUM	
5	070012	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS	LUMP SUM	LUMP SUM	
6	070018	TIME-RELATED OVERHEAD	WDAY	1130		
7	074019	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	LUMP SUM	LUMP SUM	
8	074020	WATER POLLUTION CONTROL	LS	LUMP SUM	LUMP SUM	
9	030631	NON-STORM WATER DISCHARGES	LS	LUMP SUM	LUMP SUM	
10	030632	TURBIDITY CONTROL	LS	LUMP SUM	LUMP SUM	
11	074032	TEMPORARY CONCRETE WASHOUT FACILITY	LS	LUMP SUM	LUMP SUM	
12 (S)	490672	2.5 M CAST-IN-DRILLED-HOLE CONCRETE PILING	M	423		
13 (S)	049245	2.2 M CAST-IN-DRILLED-HOLE CONCRETE PILING (ROCK SOCKET)	M	390		
14 (S)	049246	FURNISH 2.5 M CAST-IN-STEEL SHELL CONCRETE PILING	M	1694		
15 (S)	049247	DRIVE 2.5 M CAST-IN-STEEL SHELL CONCRETE PILE	EA	16		
16 (S)	049248	2.5 M PERMANENT STEEL CASING	M	423		
17 (S-F)	049249	MARINE PILE DRIVING ENERGY ATTENUATOR	LS	LUMP SUM	LUMP SUM	
18 (F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	M3	7030		
19 (F)	049250	STRUCTURAL CONCRETE, BRIDGE FOOTING (LIGHTWEIGHT)	M3	2300		
20 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	M3	1640		

ENGINEER'S ESTIMATE**04-0120E4****ALTERNATIVE 2**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	049251	NONSHRINK GROUT	LS	LUMP SUM	LUMP SUM	
22	049252	NONSHRINK FIBER-REINFORCED GROUT	LS	LUMP SUM	LUMP SUM	
23 (S-F)	520102	BAR REINFORCING STEEL (BRIDGE)	KG	2 495 000		
24 (S-F)	520110	BAR REINFORCING STEEL (EPOXY COATED) (BRIDGE)	KG	801 000		
25 (S-F)	520120	HEADED BAR REINFORCEMENT	EA	3020		
26 (F)	550203	FURNISH STRUCTURAL STEEL (BRIDGE)	KG	3 960 000		
27 (F)	550204	ERECT STRUCTURAL STEEL (BRIDGE)	KG	3 960 000		
28 (S)	590115	CLEAN AND PAINT STRUCTURAL STEEL	LS	LUMP SUM	LUMP SUM	
29 (S)	049253	FURNISH AND INSTALL STEEL DOWNHOLE CASING E	LS	LUMP SUM	LUMP SUM	
30 (S-F)	750501	MISCELLANEOUS METAL (BRIDGE)	KG	8380		
31	800391	CHAIN LINK FENCE (TYPE CL-1.8)	M	150		
32	833080	CONCRETE BARRIER (TYPE K)	M	72		
33	030633	GROUNDING FOR PIERS E2 AND T1 FOUNDATIONS	LS	LUMP SUM	LUMP SUM	
34	030634	NAVIGATION LIGHTING SYSTEM	LS	LUMP SUM	LUMP SUM	
35	030635	STRONG MOTION DETECTION DOWNHOLE	LS	LUMP SUM	LUMP SUM	
36 (S-F)	030965	PLASTIC LUMBER	M3	145		
37 (S-F)	030966	UHMW POLYETHYLENE PANEL (50 MM)	M2	930		
38	049400	ESTABLISH MARINE ACCESS	LS	LUMP SUM	LUMP SUM	
39	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

TOTAL BID (ALTERNATIVE 2):
