

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
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*Flex your power!
Be energy efficient!*

June 17, 2009

04-CC,Ala-24-8.2/10.0,0.0/2.7
04-294914
SARRA-P024(030)N
HPLUL-6204(083)N

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN ALAMEDA AND CONTRA COSTA COUNTIES FROM EAST TEMESCAL SEPARATION TO 0.8 KM EAST OF GATEWAY BLVD.

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 Tuesday, August 11, 2009.

This addendum is being issued to revise the Project Plans, the Notice to Bidders and Special Provisions, and the Bid book.

Project Plan Sheets 19, 51, 80, 81, 255, 273, 485, and 487 are revised. Half-sized copies of the revised sheets are attached for substitution for the like-numbered sheets.

In the Notice to Bidders and Special Provisions, in the "SPECIAL NOTICES," the following Special Notice is added:

"The bidder's attention is directed to Section 2, "Bidding," of these special provisions regarding a mandatory prebid meeting attendance to submit bids for this project."

The Notice to Bidders is revised as attached.

In the Special Provisions, Section 2-1.03, "MANDATORY PREBID MEETING," is added 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 5-1.10, "SUPPLEMENTAL PROJECT INFORMATION," item No. 4, "Conceptual Design Report" of paragraph three is deleted.

In the Special Provisions, Section 5-1.11, "SOUND CONTROL REQUIREMENTS," is deleted.

In the Special Provisions, Section 10-1.015, "SOUND CONTROL AND MONITORING REQUIREMENTS," is added as attached.

In the Special Provisions, Section 10-1.28, "CONSTRUCTION AREA SIGNS," is revised as attached.

In the Special Provisions, Section 10-1.29, "MAINTAINING TRAFFIC," in chart 13a, the KP is revised from 1.64 to 5.38.

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In the Special Provisions, Section 10-1.40, "WATERING," the following paragraph is added after the second paragraph:

"Attention is directed to "Beginning of Work, Time of Completion and Liquidated Damages" of these special provisions regarding availability of water."

In the Special Provisions, Section 12-17.1634, "RADIO SYSTEMS," subsection "SUBMITTALS," the following paragraph is added after the first paragraph:

"The contractor shall perform on-site radio survey and analysis to verify factors needed to design the RF communications system including RF signal levels, frequencies, their signal strengths, antenna selection and location, feedline requirements, and lightning/power protection, as well as specific installation requirements to provide radio coverage within the limits of the project. After completion of the analysis, a formal Site Survey Report shall be prepared to document the above findings and to adjust the installation/hardware if required. The Site Survey Report shall be submitted for approval."

In the Special Provisions, Section 12-17.1634, "RADIO SYSTEMS," subsection "TUNNEL ANTENNA SYSTEM," the first paragraph is revised as follows:

"The tunnel antenna system shall consist of leaky coaxial cable and a bare copper (#8 wire) counterpoise installed in the tunnel as shown on the plans. The Contractor shall adjust cable location based on site survey if required."

In the Bid book, in the "Bid Item List," Item 148 is revised, Items 326 and 327 are added and Item 325 is deleted as attached.

To Bid book holders:

Replace pages 10 and 19 of the "Bid Item List" in the Bid book with the attached revised pages 10 and 19 of the Bid Item List. The revised Bid Item List is to be used in the bid.

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

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

Submit bids in the Bid 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.

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This office is sending this addendum by GSO overnight mail to Bid book holders to ensure that each receives it. A copy of this addendum is available for the Contractors' use on the Web site:

http://www.dot.ca.gov/hq/esc/oe/weekly_ads/addenda.php

If you are not a Bid 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
Division of Engineering Services - Office Engineer

Attachments

NOTICE TO BIDDERS

Bids open Tuesday, August 11, 2009

Dated May 18, 2009

General work description: Construct a 4th Caldecott tunnel and building.

The Department will receive sealed bids for CONSTRUCTION ON STATE HIGHWAY IN ALAMEDA AND CONTRA COSTA COUNTIES FROM EAST TEMESCAL SEPARATION TO 0.8 KM EAST OF GATEWAY BLVD.

District-County-Route-Kilometer Post: 04-CC,Ala-24-8.2/10.0,0.0/2.7

Contract No. 04-294914

The Contractor must have either a Class A license or a combination of Class C licenses which constitutes a majority of the work.

The UDBE Contract goal is 3 percent.

Federal-aid project no.:

SARRA-P024(030)N

HPLUL-6204(083)N

Bids must be on a cost+time basis.

Complete the work, within the number of working days bid.

Do not bid more than 1,100 working days.

Do not include plant establishment working days in your bid.

The estimated cost of the project is \$270,000,000.

A mandatory prebid meeting is scheduled for this project at 1 pm, on July 8, 2009, at Park Plaza Hotel, 150 Hegenberger Road, Oakland, CA.

The Department will receive bids until 2:00 p.m. on the bid open date at 1120 N Street, Room 0200, MS 26, Sacramento, CA 95814. Bids received after this time will not be accepted.

The Department will open and publicly read the bids at the above location immediately after the specified closing time.

District office addresses are provided in the Standard Specifications.

Bidders' inquiries may be presented to the Department by following the instructions at:

http://www.dot.ca.gov/hq/esc/oe/project_status/bid_inq.html

The Department posts responses to the questions at the District Web sites.

Questions about alleged patent ambiguity of the plans, specifications, or estimate must be asked before bid opening. After bid opening, such questions will not be treated as bid protests.

Submit your bid with bidder's security equal to at least 10 percent of the bid.

Prevailing wages are required on this Contract. The Director of the California Department of Industrial Relations determines the general prevailing wage rates. Obtain the wage rates at the DIR Web site, <http://www.dir.ca.gov>, or from the Department's Labor Compliance Office of the district in which the work is located.

The federal minimum wage rates for this Contract as determined by the United States Secretary of Labor are available at <http://www.dot.ca.gov/hq/esc/oe/federal-wages>.

If the minimum wage rates as determined by the United States Secretary of Labor differs from the general prevailing wage rates determined by the Director of the California Department of Industrial Relations for similar classifications of labor, the Contractor and subcontractors must not pay less than the higher wage rate. The Department does not accept lower State wage rates not specifically included in the Federal minimum wage determinations. This includes helper, or other classifications based on hours of experience, or any other classification not appearing in the Federal wage determinations. Where Federal wage determinations do not contain the State wage rate determination otherwise available for use by the Contractor and subcontractors, the Contractor and subcontractors must not pay less than the Federal minimum wage rate that most closely approximates the duties of the employees in question.

DEPARTMENT OF TRANSPORTATION

LLS

2-1.03 MANDATORY PREBID MEETING

The Department will conduct a mandatory prebid meeting for this contract. The purpose of the meeting is to provide small businesses the opportunity to meet and interact with prospective bidders and increase participation in the performance of contracts.

Prospective bidders must attend the mandatory prebid meeting. The bidder's representative must be a company officer, project superintendent, or project estimator. For a joint venture, one of the parties must attend the mandatory prebid meeting. The Department will not accept bids from bidders who do not attend the mandatory prebid meeting.

A sign-up sheet will be used to identify all prospective bidders including name and title of the company representative attending the mandatory prebid meeting. The Department may hold a single prebid meeting for more than one contract. Make sure you sign the sign-up sheet for the contract you intend to bid on. If bidding multiple contracts, sign each sign-up sheet for each contract you intend to bid on.

The successful bidder will be required to report small businesses hired to work on this contract as a result of the mandatory prebid meeting.

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

Complete the work within the number of working days bid starting on the 15th day after contract approval or on the day you start work at the job site, whichever occurs first.

Liquidated damages are \$38,200.00 per day starting on the 1st day after exceeding the number of working days bid and until work requiring lane or shoulder closures on State Highway Route 24 is complete.

If no further lane or shoulder closures are required on State Highway Route 24 to complete the work, liquidated damages are \$36,800.00 per day starting on the 1st day after exceeding the number of working days bid.

Complete the plant establishment work within 875 working days within the number of working days bid.

The Department reduces the liquidated damages to \$600 per day if all the work, except plant establishment work, is complete and the number of working days bid have expired.

The Department does not simultaneously assess damages for untimely completion of work and plant establishment work.

It is anticipated that water will be available in sufficient quantities for the prosecution of the work. However, water shortages may occur during the life of the contract. Arrangements or commitments obtained by the Department are not a part of the contract. It is expressly understood and agreed that the Department assumes no responsibility to the bidder or Contractor whatsoever in respect to the arrangements made with the source. The Contractor shall assume all risks in connection with the use of the source and the terms upon which the use shall be made. There is no warranty or guaranty, either expressed or implied, to the quantity of water that can be obtained from the source. If the Department has compiled "Materials Information", as referred to in "Watering" of these special provisions, the bidder or Contractor is cautioned to make independent investigations and obtain the commitments or allocations as the bidder or Contractor deems necessary to verify the quantity of water available. The Contractor shall make arrangements or obtain commitments or allocations necessary to provide water for the project.

During the progress of the work, if water becomes unavailable or unavailable in the quantities needed for prosecution of the work, the unavailability of water will be considered a "shortage of materials" in conformance with the provisions in Section 8-1.07, "Liquidated Damages," of the Standard Specifications except for compensation. The Contractor will be granted an extension of time and will not be assessed with liquidated damages for any portion of the delay in completion of the work beyond the time shown above for the completion of the work caused by the unavailability of water, provided the Contractor notifies the Engineer and furnishes proof of the "shortage of materials" as required in the third and fourth paragraphs in Section 8-1.07, "Liquidated Damages," of the Standard Specifications. If the Contractor sustains delay costs or damages which could not have been avoided by the judicious handling of forces, equipment and plant, there shall be paid to the Contractor the amount the Engineer may find to be a fair and reasonable compensation for the part of the Contractor's actual loss, as, in the opinion of the Engineer, was unavoidable, determined in the same manner as provided for right of way delays in Section 8-1.09, "Right of Way Delays," of the Standard Specifications. The Contractor shall be entitled to no other compensation for such delay. The provisions in Section 5-1.116, "Differing Site Conditions," of the Standard Specifications shall not apply to the unavailability of water.

10-1.015 SOUND CONTROL AND MONITORING REQUIREMENTS

GENERAL

Summary

This work includes determining baseline ambient sound levels no more than 90 days before starting any work on the job site, developing a sound control plan, implementing sound control measures, monitoring sound levels during construction, and providing a sound meter to the Engineer.

Comply with the second paragraph of Section 7-1.01I, "Sound Control Requirements," of the Standard Specifications and these special provisions. The first paragraph of Section 7-1.01I does not apply.

Definitions

ambient events: Events that occur outside the project site, are unrelated to the project construction, and are not Contractor operations.

audio recording: Sound captured to a medium that can be played back to the user as a listenable representation of the original sound. An audio recording is of sufficient fidelity or quality to be useful for the identification of the source(s) of the recorded sound(s).

average sound level (Leq): The sound pressure level time-averaged over a specified time period.

baseline ambient sound levels: Reference sound levels derived from a baseline ambient measurement assessment.

They are the baseline hourly Leq and the baseline hourly Lmax for each nighttime hour. Each reference value is a logarithmic average of the respective hourly sound level data from 14 consecutive days of the baseline ambient measurement assessment.

exceedance event: The event marked by a measured sound level that exceeds a numerical threshold value preset for each sound monitor.

hourly average sound level (hourly Leq): The average sound level measured over a one-hour time period.

hourly maximum sound level (hourly Lmax): The maximum sound level measured during a one-hour time period.

maximum sound level (Lmax): The maximum "slow" exponential time-weighted sound pressure level that occurs during a specified time period.

nighttime hours: As defined under "Order of Work" of these special provisions.

sound or noise: For the purposes of this contract, the terms "sound" and "noise" are used interchangeably.

sound level: The "slow" exponential time-weighted sound pressure level.

sound pressure level: The A-weighted root-mean-square (RMS) sound pressure expressed in decibels (dBA) with respect to a reference sound pressure of 20 micropascals.

Submittals

Pre-construction Baseline Ambient Noise Measurements Report

Submit a report documenting the results of the baseline ambient sound assessment.

Sound Control Plan

Within 55 days of contract approval and at least 30 days before starting operations at the job site, submit 3 copies of a Sound Control Plan (SCP) to the Engineer for review and approval in conformance with Section 5-1.02, "Plans and Working Drawings," of the Standard Specifications. The SCP shall include the following information for nighttime operations:

1. Work to be performed along with planned work durations.
2. Type and location of stationary construction equipment and facilities.
3. Type and quantity of mobile construction equipment.
4. Estimated sound levels throughout the operating cycle of stationary and mobile construction equipment reported at a distance of 15 meters from the equipment.
5. Proposed sound control measures to satisfy the project noise criteria.

6. "Pre-construction Baseline Ambient Noise Measurements" report.
7. Calculations approved by the Engineer demonstrating that the Contractor's operations utilizing the equipment and sound mitigation methods identified in this SCP are expected to satisfy the project noise criteria.
8. Contingency measures to be implemented in the event that Contractor's operations do not comply with the project noise criteria.
9. Exact locations of sound monitors to be provided at the staging areas.
10. Detailed information on proposed procedures to conduct the sound monitoring.

After the SCP is submitted, allow the Engineer 20 days to review and respond to the SCP. Allow the Engineer an additional 10 days for review and response to any SCP re-submittals or revisions. Do not start nighttime construction activities on site until the Engineer has reviewed and approved, in writing, the SCP. Should the Engineer fail to complete the review within the time specified and if, in the opinion of the Engineer, a controlling operation is delayed or interfered with by reason of the delay in review, an extension of time commensurate with the delay in completion of the work thus caused will be granted as provided in Section 8-1.07, "Liquidated Damages," of the Standard Specifications.

Schedule of Values

Submit a schedule of values that shows a breakdown of costs of labor and equipment divided by the major portions of the work. The sum of the items listed in the schedule of values must equal the contract lump sum price for sound control and monitoring. The schedule of values must be approved by the Engineer before any partial payment estimate is prepared.

Quality Control and Assurance

Project Noise Criteria

During nighttime hours, noise generated by the Contractor's operations must be limited to comply with the following requirements at the specified community monitoring locations:

1. The hourly Leq, shall not exceed the baseline ambient hourly Leq plus 3 dBA.
2. The sound level must not exceed the baseline ambient hourly Lmax.

The project noise criteria applies to the equipment on the job or related to the job including:

1. Tunnel excavation equipment
2. Batch plants
3. Ventilation fans
4. Generators and other fixed equipment
5. Trucks
6. Loaders
7. Excavators
8. Transit mixers or other equipment

The project noise criteria also applies to support activities, including:

1. Maintenance shop activities
2. Shotcrete spraying
3. Batch plant operations
4. Other movement of labor and materials.

The project noise criteria does not apply to the following operations, subject to control of the Engineer:

1. Cold plane asphalt concrete pavement
2. Grind existing concrete pavement
3. Remove concrete
4. Remove asphalt concrete
5. Saw cut pavement

Independent Acoustical Engineer

Provide an independent acoustical engineer, acceptable to the Engineer, having at least 3 years of demonstrated experience in noise engineering. The acoustical engineer is responsible for:

1. Overseeing the baseline ambient sound assessment
2. Developing the Sound Control Plan
3. Monitoring compliance with the sound control plan
4. Monitoring sound levels during construction.

MATERIALS

Sound Level Meters

Sound level meters must:

1. Be Type 1 or Type 2 integrating-averaging sound level meters that comply with ANSI S1.4-1983 (R2006), "American National Standard Specification for Sound Level Meters," and ANSI S1.43-1997 (R2007), "American National Standard Specification for Integrating-Averaging Sound Level Meters."
2. Be housed in a weather-resistant enclosure.
3. Have an exterior weather-resistant microphone and windscreen.
4. Have an internal time clock.
5. Be capable of running continuously for at least 12 hours
6. Have wireless networking capability.

Service sound level meters before each measurement period at least on a weekly basis for the first month and then at least on a monthly basis following the first month to verify proper operation, including acoustical calibration. Replace or repair inoperative or malfunctioning sound monitors within 48 hours, and annotate the acoustical data management system accordingly. Synchronize and set the time clocks of all sound level meters per local job site time.

Provide one Quest 2200 "Type 2" sound level meter, or equivalent, and one acoustic calibrator which will be used by the Department during the life of the contract. Provide training by a person trained in noise monitoring to one Department employee designated by the Engineer. Have the sound level meter calibrated and certified by the manufacturer or other independent acoustical laboratory before delivery to the Department. Provide annual recalibration by the manufacturer or other independent acoustical laboratory. All equipment must be capable of taking measurements using the A-weighting network and the "slow" response of the sound level meter. The measurement microphone must be fitted with an appropriate windscreen. All equipment will be returned to the Contractor at the acceptance of the contract. Equipment damaged by actions of the Department or the public shall be paid for as extra work as provided in Section 4-1.03D for the Standard Specifications.

CONSTRUCTION

Use alternative warnings instead of sound signals except those required by safety laws for the protection of personnel. Trucks shall not use engine brakes.

Baseline Ambient Sound Assessment

No more than 90 days before starting construction activities or delivery of materials to the site, establish baseline sound levels in accordance with the following:

1. All sound level measurements and analysis must be performed or supervised by the acoustical engineer.
2. All sound level measurements must be obtained with a sound level meter as defined above.
3. Baseline ambient sound level measurement and analysis must use procedures that are consistent with the report, "Addendum to Measure Ambient Noise Levels and Predicted Noise Levels During Construction" provided in "Supplemental Project Information" of these special provisions.
4. Obtain baseline ambient sound measurements during nighttime hours over a period of 14 consecutive days at each of the measurement locations 1 through 9 described below.
5. Establish separate pre-construction baseline ambient hourly Leq and pre-construction baseline ambient hourly Lmax for weeknights and weekend nights.

6. Obtain short-term readings at location 10 to correlate the ambient noise levels at location 4, which does not have a direct line-of-sight to the staging area, with a location that does have a direct line-of-sight.
7. Exclude any unusual Lmax events, defined as events occurring fewer than three times during the nighttime monitoring period, from the determination of the hourly Lmax.
8. Report the measured hourly Leq and hourly Lmax for each nighttime hour at each location for each day of measurements by day and date.
9. Establish the pre-construction baseline ambient hourly Leq at each location by logarithmically averaging the hourly data for each hour for all 14 consecutive days.
10. Establish the pre-construction baseline ambient hourly Lmax at each location by logarithmically averaging the hourly data for each hour for all 14 consecutive days.
11. Submit a report entitled, "Pre-construction Baseline Ambient Noise Measurements," that summarizes the baseline ambient sound level measurements and analysis.

The baseline ambient sound measurement locations are described in the following table.

Baseline Ambient Sound Assessment Measurement Locations

Location No.	Location Description
1	Along the north side of Caldecott Lane, on an unnumbered light pole nearest the entrance to the Parkwoods Condominiums.
2	Along the north side of Caldecott Lane, approximately 113 meters west of Location 1, near two other condominium buildings on light pole No. 05481.
3	Along the south side of Tunnel Road, elevated above and to the north of the aforementioned condominiums on light pole No. N4252.
4	Along the north side of Charing Cross Road at Schooner Hill on light pole No. A9707.
5	Along the south side of Buckingham Boulevard at Norfolk Road on light pole No. N4231.
6	Along the south side of Tunnel Road near the south end of Bay Forest Drive, elevated above and northeast of the west portal of the Caldecott Tunnel, on light pole No. N4311.
7	Along the southwest side of Bay Forest Court, on light pole No. A2985.
8	Along the west side of Skyline Boulevard, south of Highway 24 on light pole No. N4409 (mounted above label to avoid shielding effects of driveway for 5895 Skyline Blvd.).
9	Along the east side of Grizzly Terrace Drive, approximately 50.3 meters from the centerline of Grizzly Peak Boulevard, on light pole No. 8049A.
10 ^a	Edge of bluff approximately 26 meters south of light pole No. A9707.

Notes:

^a Short term measurement location

Community Sound Monitoring

Provide and maintain 6 sound monitors at locations 1, 2, 3, 6, 8, and 9 described above and continuously monitor nighttime sound levels throughout the entire construction period. Each community sound monitor must be set to store sound level data and audio recordings continuously. The numerical threshold value of each sound monitor must be set on an hourly basis and be equal to the baseline ambient hourly Lmax established for each location and each nighttime hour. The monitoring system must be capable of providing information to determine if the cause of an elevated sound level is an ambient event not related to construction. Additional monitoring equipment may include video surveillance cameras or sound level meters.

Construction Sound Monitoring

Provide and maintain 4 sound monitors within the construction staging areas at approximate locations shown on the plans and continuously monitor nighttime sound levels throughout the entire construction period. The final locations, to be described in the SCP, must be adjusted to be within 30.5 meters of the major noise sources. The sound monitors must be located more than 61 meters apart. Each construction monitor must be set to store sound level data and audio recordings continuously. The numerical threshold value of each sound monitor must be no greater than a sound level of 86 dBA.

Contingency Procedures

If a community sound monitor records an exceedance event, the monitoring system must immediately send notifications to the onsite Contractor and the Engineer personnel as specified in the SCP.

If the measured sound level at a community monitoring location exceeds the project noise criteria, the Contractor must determine the cause of elevated sound level within 20 minutes of occurrence. If the cause is an ambient event, it must be noted in a summary report to the Engineer.

Immediately suspend operations that do not comply with the project noise criteria. Submit a revised SCP detailing new, revised, or additional measures to mitigate the sound generated by the operations. Do not resume the operations until the Engineer has approved, in writing, the revised work practices and they are implemented on the project.

The Engineer has the authority to review and revise the determination made by the Contractor. Cooperate with the Engineer by providing information regarding Contractor's operations during an exceedance event.

Sound Monitoring Reporting Requirements

The sound monitoring system must store the following measured acoustical data:

1. Hourly Leq, hourly Lmax
2. Start time and duration of each exceedance event
3. The maximum sound level measured during each exceedance event
4. Continuous audio recordings
 - 4.1 If no exceedance event occurs, the audio recordings may be deleted after 48 hours.
 - 4.2 Retain at least sixty (60) seconds of audio recording directly preceding and following the exceedance event for submission to the Engineer.

Archive the acoustical data and audio recordings. Submit one electronic copy of the above information to the Engineer by 1:00 P.M. each day following the measurements made the preceding night. Information submitted to the Engineer must include numerical data in the form of a summary report and the audio recordings appropriately named or labeled to correspond to the start time of the recording. If requested, data and audio recordings from the sound monitors must be made available to the Engineer within two hours of the time of the recording.

If the measured sound levels at any of the community monitoring locations exceed the project noise criteria, the summary report to the Engineer must identify the causal event(s) and the sound source(s). If the cause is the Contractor's operations, the actions taken to reduce sound levels must also be listed.

Post numerical acoustical data recorded at the community sound monitors on a website provided by the Engineer by 1:00 P.M. each day following the measurements made the preceding night. Information posted on the website must include hourly Leq and hourly Lmax data measured during nighttime hours and the project noise criteria. Should the measured sound levels exceed the project criteria, the website must identify the causal event(s) and the sound source(s). If the cause is Contractor operations, the actions taken to reduce sound levels must also be listed. The website must be searchable by date and provide a graphical map to illustrate the construction site and the adjacent community with street names and locations of community sound monitors.

MEASUREMENT AND PAYMENT

The contract lump sum price paid for sound control and monitoring includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and doing all the work involved in complying with sound control and monitoring requirements, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

10-1.28 CONSTRUCTION AREA SIGNS

Construction area signs for temporary traffic control shall be furnished, installed, maintained, and removed when no longer required in conformance with the provisions in Section 12, "Construction Area Traffic Control Devices," of the Standard Specifications and these special provisions.

Attention is directed to "Furnish Sign" of these special provisions.

Attention is directed to the provisions in "Prequalified and Tested Signing and Delineation Materials" of these special provisions. Type II retroreflective sheeting shall not be used on construction area sign panels. Type III, IV, VIII, or IX retroreflective sheeting shall be used for stationary mounted construction area sign panels.

The Contractor shall furnish and install one 2006 State Transportation Bond Funding Identification sign at a location designated by the Engineer before starting major construction activities visible to highway users. Upon completion of the project, the Contractor shall remove and dispose of the 2006 State Transportation Bond Funding Identification sign. Manufacturing details entitled Route 24 - Caldecott Improvement Project for the bond funding sign are available at:

<http://www.dot.ca.gov/hq/traffops/signtech/signdel/bondfundspecs.htm>

The Contractor shall furnish and install one 3000 mm by 2700 mm American Reinvestment and Recovery Act (ARRA) sign at the location designated by the Engineer before starting major construction activities visible to highway users. Upon completion of the project, the Contractor shall remove and dispose of the ARRA sign. Manufacturing details for ARRA signs are available at:

<http://www.dot.ca.gov/hq/traffops/signtech/signdel/bondfundspecs.htm>

Unless otherwise shown on the plans or specified in these special provisions, the color of construction area warning and guide signs shall have black legend and border on orange background, except W10-1 or W47(CA) (Highway-Rail Grade Crossing Advance Warning) sign shall have black legend and border on yellow background.

Repair to construction area sign panels will not be allowed, except when approved by the Engineer. At nighttime under vehicular headlight illumination, sign panels that exhibit irregular luminance, shadowing or dark blotches shall be immediately replaced at the Contractor's expense.

The Contractor shall notify the appropriate regional notification center for operators of subsurface installations at least 2 business days, but not more than 14 days, prior to commencing excavation for construction area sign posts. The regional notification centers include, but are not limited to, the following:

Notification Center	Telephone Number
Underground Service Alert	811

Excavations required to install construction area signs shall be performed by hand methods without the use of power equipment, except that power equipment may be used if it is determined there are no utility facilities in the area of the proposed post holes. The post hole diameter, if backfilled with portland cement concrete, shall be at least 100 mm greater than the longer dimension of the post cross section.

Construction area signs placed within 4.6 m from the edge of the travel way shall be mounted on stationary mounted sign supports as specified in "Construction Area Traffic Control Devices" of these special provisions.

The Contractor shall maintain accurate information on construction area signs. Signs that are no longer required shall be immediately covered or removed. Signs that convey inaccurate information shall be immediately replaced or the information shall be corrected. Covers shall be replaced when they no longer cover the signs properly. The Contractor shall immediately restore to the original position and location any sign that is displaced or overturned, from any cause, during the progress of work.

PAYMENT

Full compensation for furnishing and installing 2006 State Transportation Bond Funding Identification and ARRA signs, including removal and disposal upon project completion, is included in the contract lump sum price paid for Construction Area Signs, and no separate payment will be allowed therefor.

BID ITEM LIST**04-294914**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
141 (F)	041731	STRUCTURAL CONCRETE, PORTAL	M3	1200		
142 (F)	041732	CLASS 2 CONCRETE (BACKFILL)	M3	1835		
143 (F)	510414	CLASS 1 CONCRETE (BACKFILL)	M3	614		
144 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	M3	165		
145	510526	MINOR CONCRETE (BACKFILL)	M3	640		
146 (F)	511064	FRACTURED RIB TEXTURE	M2	202		
147 (F)	041733	ARCHITECTURAL TREATMENT FACADE	M2	2431		
148	518002	SOUND WALL (MASONRY BLOCK)	M2	350		
149	519102	JOINT SEAL (TYPE AL)	M	2104		
150 (F)	520103	BAR REINFORCING STEEL (RETAINING WALL)	KG	123 610		
151 (F)	520106	BAR REINFORCING STEEL (EPOXY COATED)	KG	5440		
152 (F)	041734	BAR REINFORCING STEEL (PORTAL)	KG	174 000		
153 (F)	041735	BAR REINFORCING STEEL (PILE)	KG	105 500		
154 (F)	530100	SHOTCRETE	M3	615		
155 (F)	041736	PORTAL WATERPROOFING	M2	1400		
156 (F)	041737	RETAINING WALL WATERPROOFING	M2	150		
157	015827	CLEAN AND PAINT MICROWAVE TOWER STRUCTURE	KG	1120		
158 (F)	560218	FURNISH SIGN STRUCTURE (TRUSS)	KG	29 820		
159 (F)	560219	INSTALL SIGN STRUCTURE (TRUSS)	KG	29 820		
160	560233	FURNISH FORMED PANEL SIGN (OVERHEAD)	M2	110		

BID ITEM LIST

04-294914

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
321	041810	TUNNEL AND CROSS PASSAGES FIRE PROTECTION SYSTEM	LS	LUMP SUM	LUMP SUM	
322	041811	FIRE PUMPS AND CONTROLLER	LS	LUMP SUM	LUMP SUM	
323	015854	SYSTEM COMMISSIONING	LS	LUMP SUM	LUMP SUM	
324	015855	TRAFFIC OPERATIONS SYSTEM SOFTWARE	LS	LUMP SUM	LUMP SUM	
325	BLANK					
326	017021	SOUND CONTROL AND MONITORING	LS	LUMP SUM	LUMP SUM	
327	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

**TOTAL BID
FOR ITEMS:**

\$ _____

**TOTAL
BID
FOR
TIME:**

_____ X \$38,200.00 = \$ _____
 WORKING DAYS BID COST PER DAY
 (Not to exceed 1,100 Days)

TOTAL BID FOR COMPARISON (COST PLUS TIME): \$ _____