

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

January 21, 2010

04-SF-101-8.2/9.2
 04-163744
 SARRA-Q101(153)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 FROM 1.3 MILE TO 0.3 MILE SOUTH OF THE ROUTE 101/1 SEPARATION.

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

Bids for this work will be opened on Wednesday, February 3, 2010.

This addendum is being issued to revise the Project Plans, the Notice to Bidders and Special Provisions, the Bid book, the Federal Minimum Wages with Modification Number 45 dated 01/15/10, and provide a copy of the Information Handout.

Project Plan Sheets 1, 34, 98, 121, 197, 198, 223, 272 and 543 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

In the Notice to Bidders, the Federal-aid project number is revised as follows:

"Federal-aid project no.: SARRA-Q101(153)N"

In the Special Provisions, Section 2-1.035, "DISADVANTAGED BUSINESS ENTERPRISES AND SMALL BUSINESS ENTERPRISES PARTICIPATION," is added as attached.

In the Special Provisions, Section 4, "BEGINNING OF WORK, TIME OF COMPLETION, AND LIQUIDATED DAMAGES," the ninth paragraph the following entry is added to the Special Event Days table:

"	Pre-Memorial Day Events	Saturday before Memorial Day
"		

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In the Special Provisions, Section 5-1.13, "AREAS FOR CONTRACTOR'S USE," is revised as attached.

In the Special Provisions, Section 5-1.15, "SUPPLEMENTAL PROJECT INFORMATION," the following is added to the table:

"

Included in the Information Handout	Agreement Among the Presidio Trust and the State of California, Department of Transportation and the San Francisco County Transportaion Authority for Entry on to Real Property Needed for the Construction of the South Access to the Golden Gate Bridge, Doyle Drive Replacement Project in San Francisco dated July 16, 2009
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In the Special Provisions, Section 5-1.25, "NONHIGHWAY FACILITIES (INCLUDING UTILITIES)," is revised as attached.

In the Special Provisions, Section 5-1.28, "TUNNEL SAFETY ORDERS," the first paragraph is revised as follows:

"The work to be performed at the following locations: sign foundation piles and Southbound Battery Tunnel, has been classified "Potentially Gassy with Special Conditions" by the State Division of Occupational Safety and Health under Section 8422 of the Tunnel Safety Orders of the California Code of Regulations."

In the Special Provisions, Section 5-1.29, "OWNER CONTROLLED INSURANCE PROGRAM (OCIP)," subsection "PROJECT SAFETY," is revised as attached.

In the Special Provisions, Section 5-1.30, "UNITED STATES DEPARTMENT OF VETERANS AFFAIRS REQUIREMENTS," is added as attached.

In the Special Provisions, Section 8-2.01, "PORTLAND CEMENT CONCRETE," the following subsection is added after the first paragraph:

"STRENGTH DEVELOPMENT TIME

The time allowed to obtain the minimum required compressive strength as specified in Section 90-1.01, "Description," of the Standard Specifications will be 56 days when the Contractor chooses cementitious material that satisfies the following equation:

$$\frac{(41 \times UF) + (19 \times F) + (11 \times SL)}{TC} \geq 7.0$$

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Where:

F = Fly ash or natural pozzolan conforming to the requirements in AASHTO Designation: M 295, Class F or N, including the amount in blended cement, pounds per cubic yard. F is equivalent to either FA or FB as defined in Section 90-2.01C, "Required Use of Supplementary Cementitious Materials," of the Standard Specifications

SL = GGBFS, including the amount in blended cement, pounds per cubic yard

UF = Silica fume, metakaolin, or UFFA, including the amount in blended cement, pounds per cubic yard

TC = Total amount of cementitious material used, pounds per cubic yard

For concrete satisfying the equation above, the Contractor shall test for the modulus of rupture or compressive strength specified for the concrete involved, at least once every 500 cubic yards, at 28, 42, and 56 days. The Contractor shall submit test results to the Engineer and the Transportation Laboratory, Attention: Office of Concrete Materials."

In the Special Provisions, Section 10-1.35, "MAINTAINING TRAFFIC," the following paragraph is added after the fifth paragraph:

"The complete freeway closure for the realignment of Doyle Drive to the detour (Chart No. 5, 6 and 12) is a one-time occurrence."

In the Special Provisions, Section 10-1.35, "MAINTAINING TRAFFIC," Chart No. 14 is added as attached.

In the Special Provisions, Section 10-1.43, "QUICKCHANGE MOVEABLE BARRIER SYSTEM," is revised as attached.

In the Special Provisions, Section 10-1.50, "ROCK EXCAVATION (CONTROLLED BLASTING)," subsection "GENERAL," subsection "Submittals," subsection "Blasting Safety Plan," the following item is added after Item 18:

"19. As part of the Blasting Plan the Contractor shall design a demonstration of a series of scaled down shots. This demonstration will be used to verify that the Contractor can control adverse impacts associated with production shots that could adversely impact traffic on adjacent roadways. Adverse impacts may include flyrock, noise, smoke and dust. The Engineer will use this series of demonstrations to determine if and to what extent traffic control will be needed."

In the Bid book, the Federal-aid project number is revised as follows:

"Federal-Aid Project
SARRA-Q101(153)N"

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To Bid book holders:

Attached is a copy of the Information Handout containing the Presidio Trust, Department of Transportation and San Francisco County Transportation Authority Agreement for Entry onto Real Property, and revised Conceptual Stormwater Pollution Prevention Plan for Doyle Drive Replacement Project.

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.

This addendum, attachments and the modified wage rates are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/04/04-163744

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
Office Engineer
Division of Engineering Services

Attachments

2-1.035 DISADVANTAGED BUSINESS ENTERPRISES AND SMALL BUSINESS ENTERPRISES PARTICIPATION

In addition to the 5% UDBE contract goal, the Department advises you of its annual 13.5 percent DBE participation and overall 25 percent small business participation goals.

For information on the DBE and Small Business Enterprises (SBE) participation goals, you may contact the Doyle Drive Replacement Project DBE/SBE/DVBE Participation Program:

1. By telephone at (415) 420-7528
2. By e-mail at smallbusiness@presidioparkway.org
3. By visiting its website at www.presidioparkway.org/smallbusiness

The Department, through the above participation program, makes the following services available to help you achieve these participation goals and provide you with information on Disabled Veteran Business Enterprises (DVBE) and Local Business Enterprises (LBE):

1. UDBE, DBE, SBE, DVBE and LBE Certified Firms Database Search Support. You may request information based on the following search categories and you will receive a file in excel format with separate tables for each requested search including full contact information and key certification information:
 - 1.1. Certification status.
 - 1.2. Industry or business type.
 - 1.3. North American Industry Classification System (NAICS) Code.
 - 1.4. Zip code, City, County, Region, or Statewide.
2. Certification Application Assistance and Referral Services for:
 - 2.1. Underutilized Disadvantaged Business Enterprises (UDBE).
 - 2.2. Disadvantaged Business Enterprises (DBE).
 - 2.3. Small Business Enterprises (SBE).
 - 2.4. Disabled Veteran Business Enterprises (DVBE).
 - 2.5. Local Business Enterprise (LBE).
3. Technical Assistance in:
 - 3.1. Insurance.
 - 3.2. Bonding.
 - 3.3. Finance.
4. Workforce Development Support provided by San Francisco CityBuild.
5. Networking and Outreach Events. You may request to be placed in the participation program's database to be notified of future outreach and contract opportunity events.

5-1.13 AREAS FOR CONTRACTOR'S USE

Attention is directed to the provisions in Section 7-1.19, "Rights in Land and Improvements," of the Standard Specifications and these special provisions.

The highway right of way shall be used only for purposes that are necessary to perform the required work. The Contractor shall not occupy the right of way, or allow others to occupy the right of way, for purposes which are not necessary to perform the required work.

Areas available for the use of the Contractor are designated on the plans. Use of the Contractor's work areas and other State-owned property shall be at the Contractor's own risk, and the State shall not be held liable for damage to or loss of materials or equipment located within these areas.

Areas available for the use of the Contractor as designated on the plans shall be enclosed with temporary fence and a chain link access gate. The Contractor shall allow access to any Presidio emergency vehicle. The access gate shall be locked with a padlock chain. A Presidio owned and Department owned padlock shall be in series with the padlock chain to allow emergency access at any time.

- Area A: Available to the Contractor on January 15, 2011. The Contractor shall complete construction of all roadway work to finish grade including placement of temporary railing (Type K) on the DS, DN, MN, MS lines before March 31, 2011. Electrical signal installation and pavement delineation on the DS, DN, MN, MS lines is not required to be completed before March 31, 2011.
- Area A1: Available to the Contractor on January 15, 2011. Area A1 shall not be available for the Contractor's use after March 31, 2011. Department will have exclusive use of Area A1 after April 1, 2011.
- Area B: Available to the Contractor at the beginning of Stage 2, 3-day weekend closure to open the detour, the Contractor to provide 14 days advance notice
- Area C: Available to the Contractor after June 1, 2010
- Area D: Available to the Contractor on the 1st working day of the Contract
- Area E: Available to the Contractor after September 1, 2010
- Area F: Available to the Contractor after September 1, 2010
- Area G: Available to the Contractor on the 1st working day of the Contract
- Area H: Available to the Contractor on the 1st working day of the Contract
- Area I: Available to the Contractor on the 1st working day of the Contract
- Area J: Available to the Contractor on the 1st working day of the Contract (requires 14 days notice prior to closure on Lincoln Blvd., refer to "Maintaining Traffic" requirements provided elsewhere on this Special Provisions
- Area K: Available to the Contractor on the 1st working day of the Contract
- Area L: Available to the Contractor beginning September 1, 2010, Contractor to provide 10 days advance notice
- Area M: Available to the Contractor beginning September 1, 2010
- Area N: Available to the Contractor after Jan 15, 2011
- Area O: Available to the Contractor after Jan 15, 2011
- Area P: Available to the Contractor at the beginning of Stage 2, 3-day weekend closure to open the detour, Contractor to provide 14 days advance notice

The Contractor shall not occupy any roadway that is in use by the public unless allowed by lane closure charts included in the Contract. Areas under existing structures may be used only for storage of equipment or materials used for the Construction of this contract.

Areas C and D shall not be available for the Contractor's use after the expiration of 14 working days after the completion of Phase 1 work. The Contractor will be allowed to occupy Areas C and D for 14 working days after the completion of Phase 1 work for completion of all bridge removal on the B Line as shown on Stage 2 and 3 of the contract plans, to restore Area C and Area D to their original conditions, and to demobilize from Area C and Area D. After the expiration of 14 working days after the completion of Phase 1 work, the Department will have exclusive use of Area C and Area D.

The Contractor shall demobilize all equipment and materials and restore all areas occupied by the Contractor to original conditions before the completion of Phase 2 work. After the completion of Phase 2 work, the Department shall have exclusive use of all areas previously made available for the Contractor's use.

The Contractor shall obtain encroachment permits prior to occupying State-owned parcels outside the contract limits. The required encroachment permits may be obtained from the Department of Transportation, Permit Engineer, 111 Grand Ave, Oakland, CA, 6th Floor.

Residence trailers will not be allowed within the highway right of way, except that one trailer will be allowed for yard security purposes.

Construction job site trailers will not be allowed within limits of the Presidio, the highway right of way and areas available for use to the Contractor.

Personal vehicles of the Contractor's employees and Contractor's work vehicles shall not be parked within the Presidio right of way except in the areas available for use as shown on the plans. The Contractor's delivery and hauling equipment, materials and equipment used in the performance of the work may not be stage or placed in areas outside the areas for Contractor's use.

The Contractor shall not obstruct any emergency vehicle and shall not obstruct access to any fire hydrant, utilities and utility access points within the Presidio.

The Contractor shall remove equipment, materials, and rubbish from the work areas and other State--owned property which the Contractor occupies. The Contractor shall leave the areas in a presentable condition in conformance with the provisions in Section 4-1.02, "Final Cleaning Up," of the Standard Specifications.

The Contractor shall secure, at the Contractor's own expense, areas required for plant sites, storage of equipment or materials or for other purposes, if sufficient area is not available to the Contractor within the contract limits, or at the sites designated on the plans outside the contract limits.

5-1.25 NONHIGHWAY FACILITIES (INCLUDING UTILITIES)

The utility owner will relocate a utility shown in the following table before the corresponding date shown:

Utility Relocation and Date of the Relocation

Utility	Location	Date
Sanitary Sewer	SB 71+80	04/10/2010
	SB 73+50 to 75+30	04/10/2010
	SB 81+50 to 82+60	04/10/2010
	DN 48+50	04/10/2010
	DN 71+20	04/10/2010
	DN 73+00 to 75+00	04/10/2010
	DN 78+30 to 81+10	04/10/2010
	DN 80+20	04/10/2010
	MN 51+50	04/10/2010

Utility Relocation and Date of the Relocation

Utility	Location	Date
Presidio Trust Electrical	SB 68+00	04/10/2010
	DN 64+90	04/10/2010
	DN 72+50 to 75+00	04/10/2010
	DN 82+50 to 84+50	04/10/2010
	MN 52+50 to 56+00	04/10/2010

Utility Relocation and Date of the Relocation

Utility	Location	Date
PG&E Electrical	SB 76+70 to 84+50	04/10/2010
	DN 62+00 to 64+00	04/10/2010

Utility Relocation and Date of the Relocation

Utility	Location	Date
Telecommunications	SB 76+70 to 84+50	04/10/2010
	DN 64+90 to 66+20	04/10/2010
	DN 66+70	04/10/2010
	DN 67+10	04/10/2010
	DN 70+80	04/10/2010
	DN 78+10	04/10/2010
	MN 52+70 to 57+10	04/10/2010
	MN 53+70 to 55+00	04/10/2010
	MN 57+00 to 57+90	04/10/2010

Utility Relocation and Date of the Relocation

Utility	Location	Date
Potable Water	SB 72+10	04/10/2010
	DN 84+20 to 85+20	04/10/2010
	DN 77+50	04/10/2010
	DN 60+00 to 61+00	04/10/2010

Utility Relocation and Date of the Relocation

Utility	Location	Date
Gas	SB 72+50	04/10/2010
	DN 70+50 to 75+50	04/10/2010
	DN 71+50	04/10/2010
	DN 79+00	04/10/2010
	DN 49+00	04/10/2010

PROJECT SAFETY

The Contractor shall ensure that its employees and the general public be provided a clean, safe environment free of hazards during construction activities. The ultimate responsibility for providing a safe work place shall rest with the Contractor. The Contractor shall develop its own written Site-Specific Safety Program (SSSP) that incorporates known hazards associated with the project. At minimum, the SSSP shall conform to the requirements addressed in the California Code of Regulations, the Department's Owner Controlled Insurance Program (OCIP) specific requirements, and any other applicable safety regulations. This includes, but is not limited to, all applicable local, state, and federal Safety Standards and Codes.

Without diminishing the Contractor's responsibility for safety, the Department through OCIP may provide technical safety services to assist the Engineer in monitoring the safety, health, and environmental performance of the Contractor and its subcontractors of all tiers. The Contractor and its subcontractors of all tiers shall be monitored for effectiveness and application of their respective safety programs at the job site.

The Contractor shall allocate a full-time, 100% project dedicated, on-site Safety Quality Control Manager (SQCM) for the duration of this contract. This SQCM must be a competent and qualified person, as defined by CalOSHA, and shall provide oversight on the project. SQCM shall have a minimum of five years of experience in heavy construction safety and knowledge in the area of safety procedures for all types of work being performed on this contract. The SQCM shall be knowledgeable on Caltrans, Cal OSHA, OSHA, CA MUTCD and other safety agency requirements.

The Contractor shall submit a resume of the SQCM for review and approval to the Engineer prior to starting work on the project. If the Engineer determines the SQCM is not meeting the intended duties, they may be asked to replace with another individual. Contractor shall terminate and/or replace the SQCM upon 2 weeks written notice from the Engineer. The Contractor may terminate and/or replace the SQCM upon 2 weeks written notice to the Engineer.

The duties of the SQCM shall include but are not limited to:

1. Conducting the onsite new project orientation for each worker assigned to the project
2. Confirming each worker's compliance with the drug testing requirements on this project
3. Reviewing the construction work plans for each subcontractor prior to starting work
4. Conducting or attending pre-planning sessions for high hazard work-demolition, crane hoisting, etc.
5. Conducting weekly jobsite safety meetings
6. Attending subcontractor meetings to review safety concerns and issues
7. Conducting daily walks of the project site for hazards and compliance with the OCIP safety requirements
8. Investigating any near miss or reported incidents in a timely manner
- 9.

The SQCM shall submit daily status reports to the Engineer through the Contractor's onsite construction manager on all activities underway to document safety conditions, and if necessary, measures taken to improve safety. All reports shall include the name of the individual preparing the report, date, location, contractor and weather conditions. This provision does not relieve the Contractor of his responsibility to comply with all safety requirements of the contract.

At a minimum, daily status reports shall include:

1. Documentation of daily work activity.
2. Documentation of safety related field activities.
3. Documentation of safety deficiencies and corrective actions taken.
4. Documentation of meetings, conversations, and other communications related to safety issues.
5. Any reported near misses or incidents.
- 6.

The Contractor and its subcontractors of all tiers shall adhere to a 100 percent drug and alcohol-free program. At a minimum pre-employment, probable cause, and post-accident testing is required. Pre-employment testing includes being tested within one year from the start of work on the project. The Contractor is responsible for all costs associated with required testing.

Contractor employees must wear approved Class B hard hats on the job site.

Fall protection is required for all work conducted at or above six feet, regardless of trade or task.

The Contractor shall ensure that employees of the Contractor and subcontractors of all tiers attend a new project orientation and that new hires and personnel transferred to the project receive this orientation prior to starting work. This orientation shall be designed and conducted by the Contractor to communicate all project-specific safety policies, procedures, and expectations of the Department in regard to the construction of the project. The orientation shall be documented and a serialized hardhat sticker issued to identify that personnel have received the orientation.

The Contractor shall perform a daily self-inspection of the site and shall document such inspections at least weekly.

The Contractor or subcontractors shall hold weekly crew-level toolbox safety meetings. These meetings shall be documented as to content and attendance.

The Contractor shall require work crews to conduct and document daily pre task safety talk prior to beginning their task. Documents shall be available upon request.

The Contractor shall hold weekly project safety coordination meetings with subcontractors and documented content and attendance.

The Contractor is responsible to assure that any accident receives prompt response including prompt care and treatment, prompt reporting, and prompt investigation and analysis.

The Contractor shall ensure that personnel understand the expectation of the project in matters concerning injury and return to work policy.

5-1.30 UNITED STATES DEPARTMENT OF VETERANS AFFAIRS REQUIREMENTS

The Department and the United States Department of Veterans Affairs (VA) have entered into a license, agreement or received permits for project areas located within the jurisdiction of VA. The Contractor shall be fully informed of the requirements of this agreement and all rules, regulations, and conditions that may govern the Contractor's operations in these areas and shall conduct the work accordingly.

The following terms or conditions are among those established by the VA for this project:

- A. The Contractor shall make allowances in their construction schedule and stop all work during United States Department of Veterans Affairs Military Burials in the National Cemetery located in the Presidio. Each burial has an approximate two-hour duration and approximately 50 burials occur during each calendar year. The Engineer will provide 48 hours advance notice to the Contractor prior to each burial.

Modifications to the license, agreement or permits between the Department and VA that are proposed by the Contractor shall be submitted in writing to the Engineer for consideration for transmittal to the VA for their consideration.

No work shall be performed which is inconsistent with the original license, agreement, permit or proposed modification prior to receiving written approval from VA and the Engineer. Compensation for delay will be determined in conformance with the provisions in Section 8-1.09, "Delays," of the Standard Specifications.

The Contractor shall make allowances for 200 hours of work stoppage during the duration of the contract for burials at the National Cemetery or for other compliance requirements resulting from the agreement between the Department and the United States Department of Veterans Affairs.

Full compensation for any delays and stoppage of work to the Contractor's operations up to 200 hours resulting from the agreement between the Department of Transportation and the United States Department of Veteran Affairs and burials at the National Cemetery, regardless of the number of occurrences, including inefficiencies and loss of productivity shall be included in the contract price paid for the various items of contract work involved and no additional compensation will be allowed therefor.

Modifications to the original license, agreement, permit or proposed modification between the Department and VA shall be fully binding on the Contractor.

The provisions of this section and approved modifications shall be made a part of every subcontract executed pursuant to this contract.

**Chart No. 14
Complete Freeway/Expressway Closure Hours**

County: San Francisco	Route/Direction: Rte-101 NB /SB	PM:8.0 to 9.5
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Closure Limits: From Lyon & Richardson intersection to Rte 101 NB to Rte 1 SB connector

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays	C	C	C	C																					
Tuesdays-Thursdays	C	C	C	C																					
Fridays	C	C	C	C																					
Saturdays	C	C	C	C																					
Sundays	C	C	C	C																					

Legend:

C Freeway or expressway may be closed completely for maximum of 20 minutes duration between midnight and 4 AM. See remarks.

No complete freeway or expressway closure is permitted.

REMARKS: Full closure of NB 101 and/or SB 101 on this chart is only allowed for rock excavation (control blasting) work.
 Freeway or expressway may be closed completely only for 20 minutes continuous durations between midnight and 4 AM and only three 20 minutes continuous closures are allowed between midnight and 4 AM. The Contractor shall reopen all lanes to public traffic for a minimum of one hour before the start of the next 20 minutes closure.

10-1.43 QUICKCHANGE MOVEABLE BARRIER SYSTEM

This work includes furnishing, installing, repositioning and maintaining the Quickchange Moveable Barrier System (QCMB), as shown on the plans and in conformance with the provisions in the Standard Specifications and these special provisions .

Attention is directed to "Order of Work" of these special provisions regarding furnishing the Engineer a statement from the vendor that the order for the Quickchange Moveable Barrier System has been received and accepted by the vendor.

The provisions in this section will not relieve the Contractor of responsibility for providing additional devices or taking measures as may be necessary to comply with the provisions in Section 7-1.09, "Public Safety," of the Standard Specifications.

Attention is directed to "Cooperation" of these special provisions and Section 5-1.06, "Superintendence," of the Standard Specifications.

Quickchange Moveable Barrier System (QCMB) shall be as manufactured by Barrier Systems, Inc. consisting of the following components:

- A. Series 200 construction barrier consisting of heavily reinforced concrete barrier sections with special steel hinge system.
- B. A transfer and transport machine (TTM) that moves the barrier, with a backup machine.
- C. An ABSORB 350, Test Level 3 crash cushion.

Arrangements have been made with the manufacturer of the QCMB to insure that any successful bidder can lease the Quickchange Moveable Concrete Barrier and transfer and transport vehicle from the above named source. A materials information handout for the QCMB including the Absorb 350 is provided. The price quotations, not including sales tax, by the manufacturer for the Quickchange Moveable Barrier System including the ABSORB 350, Test Level 3 crash cushion, F.O.B. 180 River Road, Rio Vista, California 94571, telephone (707) 374-6800 is included in the supplemental information handout.

The Quickchange Moveable Barrier System shall be installed in accordance with the manufacturer's recommendations.

The Contractor shall furnish to the Engineer one copy of the manufacturer's plan and parts list for the model installed and training certificate for the operation of the transfer and transport machine (TTM).

The Contractor shall provide the Engineer with the manufacturer's Certificate of Compliance in accordance with the provisions of Section 6-1.07, "Certificates of Compliance," of the Standard Specifications. The Certificate of Compliance shall certify that the system complies with the contract plans and specifications, conforms to the prequalified design and material requirements, and was manufactured in accordance with the approved quality control program.

Each length of barrier placed within 10 feet of a traffic lane shall have a reflector installed on top of the barrier. Reflectors on QCMB shall conform to the provisions in "Approved Traffic Products" for temporary railing (Type K) of these special provisions, and adhesive shall conform to the reflector manufacturer's recommendations. A marker panel shall also be installed at each end of the barrier installed adjacent to a two-lane, two-way highway and at the end facing traffic of barrier installed adjacent to a one-way roadbed. If the barrier is placed on a skew, the marker shall be installed at the end of the skew nearest the traveled way. Type P marker panels shall conform to the provisions in Section 82, "Markers and Delineators," of the Standard Specifications except that the Contractor shall furnish the marker panels.

After initial placement of Quickchange Moveable Barrier System, the Contractor shall reposition the Quickchange Moveable Barrier System two times per day for each and everyday (including designated special event days) after the completion of Phase 1 work. The barrier repositioning work shall be performed two times per day for each and everyday (including special event days) until the completion of the contract. The repositioning consists of two shifts per day and these two shifts shall be completed at the following times:

1. The first moveable barrier shift at 5:00 am (to provide 3 lanes in the Southbound Direction and 2 lanes in the Northbound Direction).
2. The second moveable barrier shift at 12 noon (to provide 3 lanes in the Northbound Direction and two lanes in the Southbound Direction).

If maintenance is required on the Quickchange Moveable Barrier System, the Contractor shall respond and be on-site within one hour to begin necessary maintenance and repair work.

Repairing the Quickchange Moveable Barrier System, damaged by public traffic will be paid for as extra work as provided in Section 4-1.03D of the Standard Specifications. Any portion of the Quickchange Moveable Barrier System, damaged beyond repair by public traffic, when ordered by the Engineer, shall be removed and replaced immediately by the Contractor.

Provide vendor supplied training on the operation of the TTM for 2 Department employees.

The backup transfer and transport machine shall be used to move the barrier, at least once per week, to verify proper operation of the backup machine.

If the Engineer orders a move of the Quickchange Moveable Barrier System and the TTM Operator is not on-site, the Contractor shall respond and be on-site within 1 hour.

For each 10-minute interval, or fraction thereof past the time specified of 1 hour, to maintain or reposition the barrier (the twice daily barrier shift or extra move ordered by the Engineer), the Department will deduct the amount per interval shown below from moneys due or that may become due the Contractor under the contract.

Type of Facility	Route or Segment	Period	Damages/interval (\$)
Mainline	Route 101	1st half hour and beyond	\$5,200 / 10 minutes

If the Engineer orders a move of the Quickchange Moveable Barrier System and the repositioning is not shown on the plans or exceeds the two daily moves, moving the Quickchange Moveable Barrier System will be paid for as extra work as provided in Section 4-1.03D of the Standard Specifications and the Quickchange Moveable Barrier System will not be measured in the new position. Quickchange Moveable Barrier System placed in excess of the length shown, specified, or ordered will not be paid for.

COST BREAK-DOWN

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

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

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

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

QUICKCHANGE MOVEABLE BARRIER SYSTEM COST BREAK-DOWN
Contract No. 04-163744

ITEM	ITEM DESCRIPTION	UNIT	APPROXIMATE QUANTITY	VALUE	AMOUNT
A	Series 200 Construction Barrier - Lease/Rental	LF	7000		
B	Series 200 Construction Barrier - Lease/Rental - Additional months	LF per Month			
C	QMB ABSORB 350 TL-3	EA	2		
D	QMB Barrier Transfer Machine (TTM) - Lease/Rental	EA	2		
E	QMB Barrier Transfer Machine (TTM) - Lease/Rental - Additional months	EA per Month			

TOTAL _____

No adjustment in compensation will be made in the contract lump sum prices paid for Quickchange Moveable Barrier System due to differences between the quantities shown in the cost break-down furnished by the Contractor and the quantities required to perform the work as shown on the plans and as specified in these special provisions.

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

PAYMENT

The contract lump sum price paid for Quickchange Moveable Barrier System , shall include full compensation for furnishing all labor, materials (including marker panels, the transfer and transport machine, the ABSORB 350 Test Level 3 crash cushion, and reflectors), tools, equipment, and incidentals, and for doing all work involved in furnishing, training personnel, delivering, installing, repositioning and maintaining the Quickchange Moveable Barrier System, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.