

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
OFFICE ENGINEER, MS 43
1727 30TH STREET
P.O. BOX 168041
SACRAMENTO, CA 95816-8041
FAX (916) 227-6214
TTY 711



*Flex your power!
Be energy efficient!*

January 9, 2009

03-Yo1-50-0.9/3.0
03-388004
STPLN-6203(007)

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN YOLO COUNTY IN WEST SACRAMENTO FROM 1.1 KM WEST TO 1.0 KM EAST OF HARBOR BOULEVARD OVERCROSSING.

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 21, 2009.

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 21 dated January 2, 2009 and the Information Handout.

Project Plan Sheets 3, 7, 77, 86, 88, 95, 100, 130 and 218 are revised. Half-sized copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheet 292 is revised as follows:

The quantity for "DRILL AND BOND DOWEL 96 m" is deleted

In the Notice to Bidders the following paragraph is added after the last paragraph:

"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."

In the Notice to Bidders and Special Provisions, in the "AMENDMENTS TO THE STANDARD SPECIFICATIONS," Section 7-1.50D "Training," is revised as attached.

In the Notice to Bidders and Special Provisions, in the Registered Persons signature and seal sheets, the signature and seal sheet is added as attached.

03-Yo1-50-0.9/3.0
03-388004
STPLN-6203(007)

In the Special Provisions, Section 5-1.05, "PAYMENTS," the fourth paragraph is deleted.

In the Special Provisions, Section 5-1.06, "PROJECT INFORMATION," in the third paragraph after item D, the following items are added as follows:

- "E. Site Investigation Report and Remedial Action Work Plan – Former Tenco and Exxon Facilities – Contract No. 03A0937.
- F. Work Plan Implementation Report Contaminated Soil and Disposal and Removal Services – Former Tenco and Exxon Facilities – Contract No. 03A1416."

In the Special Provisions, Section 5-1.06, "PROJECT INFORMATION," in the fourth paragraph after item A, the following items are added as follows:

- "B. Appendices for Site Investigation Report and Remedial Action Work Plan – Former Tenco and Exxon Facilities – Contract No. 03A0937.
- C. Site Plans and Analytical Data for Work Plan Implementation Report Contaminated Soil and Disposal and Removal Services – Former Tenco and Exxon Facilities – Contract No. 03A1416."

In the Special Provisions, Section 5-1.13, "TUNNEL SAFETY ORDERS," the first paragraph is revised as follows:

"The work to be performed at the 1524 millimeter CIDH piles for the overhead sign structures as shown on the plans has been classified "Potentially Gassy" 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 10-1.01, "ORDER OF WORK," the third paragraph is revised as follows:

"The Contractor shall obliterate surfacing on the westbound off-ramp as a last order of work and as determined by the Engineer."

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the following two paragraphs are added after the third paragraph:

"The Contractor shall maintain access on all routes for permit loads during the work shifts. Permit loads are defined as overweight or oversized vehicles that have an approved permit for traveling this route. The Contractor shall give notice 15 calendar days in advance to the Engineer and the Office of Truck Services at (916) 322-4957, when the horizontal clearances are less than 4.88 m or the vertical clearances are less than 5.5 m.

The project staged so that WB full closure of US 50 shall use the detour shown on DE-1. If the contractor elects to modify the stage of construction shown on the plans, the contractor shall be responsible to stage the work so that the detour shown on DE-1 will be operational for the full closure."

In the Special Provisions, Section 10-1.115, "PROGRESS SCHEDULE (CRITICAL PATH METHOD)," is added as attached.

In the Special Provisions, Section 10-1.17, "MAINTAINING TRAFFIC," the fourth, fifth, and sixth paragraphs and table are deleted.

In the Special Provisions, Section 10-1.17, "MAINTAINING TRAFFIC," the tenth and thirteenth paragraphs are deleted.

03-Yol-50-0.9/3.0
03-388004
STPLN-6203(007)

In the Special Provisions, Section 10-1.17, "MAINTAINING TRAFFIC," the twenty-first paragraph is revised as follows:

"On US 50 and on Harbor Boulevard, a minimum of one paved traffic lane, not less than 3.4 m wide, shall be open for use by public traffic in each direction of travel."

In the Special Provisions, Section 10-1.17, "MAINTAINING TRAFFIC," lane closure charts No. 2, 3, 4, 5, 6, 7 and 8 are replaced with lane closure charts No. 2, 3, 4, 5, 6, 7, 8 and 9 as attached.

In the Special Provisions, Section 10-1.33, "CONTAMINATED MATERIAL," subsection "CONSTRUCTION," subsection, "Earthwork," the first paragraph is revised as follows:

"Earthwork must conform to the provisions in Section 19, "Earthwork," of the Standard Specifications and these special provisions. Type DC material excavation consists of excavating petroleum impacted material (soil) within excavation limits specified in the Standard Specifications, in these special provisions, and as directed by the Engineer, and for stockpiling the material."

In the Special Provisions, Section 10-1.35, "EROSION CONTROL (TYPE D)," subsection "APPLICATION," the first table under item 1 is revised as follows:

Material	Kilograms Per Hectare (Slope Measurement)
Seed	20
Fiber	400
Commercial Fertilizer	600

In the Special Provisions, Section 10-1.59, "MISCELLANEOUS CONCRETE CONSTRUCTION," the twenty-third paragraph is deleted.

In the Special Provisions, Section 10-1.59, "MISCELLANEOUS CONCRETE CONSTRUCTION," the twenty-fourth paragraph is revised as follows:

"The contract price paid per cubic meter for minor concrete (textured paving) shall include full compensation for furnishing all labor, materials (including welded wire fabric, where required), tools, equipment and incidentals, and for doing all the work involved constructing textured paving, including grouted areas, complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer."

In the Special Provisions, Section 10-1.61, "CHAIN LINK FENCE," the first paragraph is revised as follows:

"Chain link fence shall be Type CL-1.2 or Type CL-1.8 as shown on the plans and shall conform to the provisions in Section 80, "Fences," of the Standard Specifications and these special provisions.

Chain link fence (Type CL-1.2) shall be painted black. Full compensation for painting the fence black shall be considered as included in the contract price per meter for chain link fence (Type CL-1.2) and no separate payment will be made therefor."

Addendum No. 1
Page 4
January 9, 2009

03-Yol-50-0.9/3.0
03-388004
STPLN-6203(007)

In the Bid book, in the "Bid Item List," Items 56, 77 and 78 are revised, Item 174 and 175 are added and Items 96 and 173 are deleted as attached.

To Bid book holders:

Replace pages 5, 6, 7, and 11 of the "Bid Item List" in the Bid book with the attached revised pages 5, 6, 7, and 11 of the Bid Item List. The revised Bid Item List is to be used in the bid.

Attached is a copy of the Information Handout "Site Investigation Report and Remedial Action Work Plan" and "Work Plan Implementation Report Contaminated Soil and Disposal and Removal Services" on CD ROM diskette.

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 office is sending this addendum by GSO overnight mail to all book holders to ensure that each receives it. A copy of this addendum and the modified wage rates are available for the Contractors' use on the Web site:

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

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

ROBERT E. TRAVIS, Chief
Office of Plans, Specifications & Estimates
Division of Engineering Services - Office Engineer

Attachments

CONTRACT NO. 03-388004

The special provisions contained herein have been prepared by or under the direction of the following Registered Persons.

STRUCTURES

Ruth Fernandes 1/8/09
REGISTERED CIVIL ENGINEER DATE



7-1.50D Training

Section 7-1.50D, "Training," applies if a number of trainees or apprentices is specified in the special provisions.

As part of your equal opportunity affirmative action program, provide on-the-job training to develop full journeymen in the types of trades or job classifications involved.

You have primary responsibility for meeting this training requirement.

If you subcontract a contract part, determine how many trainees or apprentices are to be trained by the subcontractor.

Include these training requirements in your subcontract.

Where feasible, 25 percent of apprentices or trainees in each occupation must be in their 1st year of apprenticeship or training.

Distribute the number of apprentices or trainees among the work classifications on the basis of your needs and the availability of journeymen in the various classifications within a reasonable recruitment area.

Before starting work, submit to the Department:

1. Number of apprentices or trainees to be trained for each classification
2. Training program to be used
3. Training starting date for each classification

Obtain the Department's approval for this submitted information before you start work. The Department credits you for each apprentice or trainee you employ on the work who is currently enrolled or becomes enrolled in an approved program.

The primary objective of Section 7-1.50D, "Training," is to train and upgrade minorities and women toward journeyman status. Make every effort to enroll minority and women apprentices or trainees, such as conducting systematic and direct recruitment through public and private sources likely to yield minority and women apprentices or trainees, to the extent they are available within a reasonable recruitment area. Show that you have made the efforts. In making these efforts, do not discriminate against any applicant for training.

Do not employ as an apprentice or trainee an employee:

1. In any classification in which the employee has successfully completed a training course leading to journeyman status or in which the employee has been employed as a journeyman
2. Who is not registered in a program approved by the US Department of Labor, Bureau of Apprenticeship and Training

Ask the employee if the employee has successfully completed a training course leading to journeyman status or has been employed as a journeyman. Your records must show the employee's answers to the questions.

In your training program, establish the minimum length and training type for each classification. The Department and FHWA approves a program if one of the following is met:

1. It is calculated to:
 - 1.1. Meet the your equal employment opportunity responsibilities
 - 1.2. Qualify the average apprentice or trainee for journeyman status in the classification involved by the end of the training period
2. It is registered with the U.S. Department of Labor, Bureau of Apprenticeship and Training and it is administered in a way consistent with the equal employment responsibilities of federal-aid highway construction contracts

Obtain the State's approval for your training program before you start work involving the classification covered by the program.

Provide training in the construction crafts, not in clerk-typist or secretarial-type positions. Training is allowed in lower level management positions such as office engineers, estimators, and timekeepers if the training is oriented toward construction applications. Training is allowed in the laborer classification if significant and meaningful training is provided and approved by the division office. Off-site training is allowed if the training is an integral part of an approved training program and does not make up a significant part of the overall training.

The Department reimburses you 80 cents per hour of training given an employee on this contract under an approved training program:

1. For on-site training
2. For off-site training if the apprentice or trainee is currently employed on a federal-aid project and you do at least one of the following:
 - 2.1. Contribute to the cost of the training
 - 2.2. Provide the instruction to the apprentice or trainee
 - 2.3. Pay the apprentice's or trainee's wages during the off-site training period
3. If you comply with Section 7-1.50D, "Training"

Each apprentice or trainee must:

1. Begin training on the project as soon as feasible after the start of work involving the apprentice's or trainee's skill
2. Remain on the project as long as training opportunities exist in the apprentice's or trainee's work classification or until the apprentice or trainee has completed the training program

Furnish the apprentice or trainee:

1. Copy of the program you will comply with in providing the training
2. Certification showing the type and length of training satisfactorily completed

Maintain records and submit reports documenting your performance under Section 7-1.50D, "Training."

10-1.115 PROGRESS SCHEDULE (CRITICAL PATH METHOD)

GENERAL

Summary

Critical path method (CPM) progress schedules are required for this project. Whenever the term "schedule" is used in this section, it means CPM progress schedule.

The provisions in Section 8-1.04, "Progress Schedule," of the Standard Specifications do not apply.

Definitions

The following definitions apply to this section:

activity: A task, event or other project element on a schedule that contributes to completing the project. Activities have a description, start date, finish date, duration and one or more logic ties.

baseline schedule: The initial schedule showing the original work plan beginning on the date of contract approval. This schedule shows no completed work to date and no negative float or negative lag to any activity.

contract completion date: The current extended date for completion of the contract shown on the weekly statement of working days furnished by the Engineer as specified in Section 8-1.06, "Time of Completion," of the Standard Specifications.

critical path: The longest continuous chain of activities for the project that has the least amount of total float of all chains. In general, a delay on the critical path will extend the scheduled completion date.

critical path method (CPM): A network based planning technique using activity durations and the relationships between activities to mathematically calculate a schedule for the entire project.

data date: The day after the date through which a schedule is current. Everything occurring earlier than the data date is "as-built" and everything on or after the data date is "planned."

early completion time: The difference in time between an early scheduled completion date and the contract completion date.

float: The difference between the earliest and latest allowable start or finish times for an activity.

milestone: An event activity that has zero duration and is typically used to represent the beginning or end of a certain stage of the project.

narrative report: A document submitted with each schedule that discusses topics related to project progress and scheduling.

near critical path: A chain of activities with total float exceeding that of the critical path but having no more than 10 working days of total float.

scheduled completion date: The planned project finish date shown on the current accepted schedule.

State owned float activity: The activity documenting time saved on the critical path by actions of the State. It is the last activity prior to the scheduled completion date.

time impact analysis: A schedule and narrative report developed specifically to demonstrate what effect a proposed change or delay has on the current scheduled completion date.

time-scaled network diagram: A graphic depiction of a CPM schedule comprised of activity bars with relationships for each activity represented by arrows. The tail of each arrow connects to the activity bar for the predecessor and points to the successor.

total float: The amount of time that an activity or chain of activities can be delayed before extending the scheduled completion date.

updated schedule: A current schedule developed from the baseline or subsequent schedule through regular monthly review to incorporate as-built progress and any planned changes.

Submittals

General Requirements

Submit to the Engineer baseline, monthly updated, and final updated schedules, each consistent in all respects with the time and order of work requirements of the contract. Work must be executed in the sequence indicated on the current accepted schedule.

Schedules must show the order in which you propose to prosecute the work with logical links between time-scaled work activities and calculations made using the critical path method to determine the controlling activities. You are responsible for assuring that all activity sequences are logical and that each schedule shows a coordinated plan for complete performance of the work.

Produce schedules using computer software and submit compatible software for the Engineer's exclusive possession and use. Submit network diagrams and schedule data as parts of each schedule submittal.

Schedule activities must include the following:

CONTRACT NO. 03-388004

ADDED PER ADDENDUM NO. 1 DATED JANUARY 9, 2009

1. Project characteristics, salient features, or interfaces, including those with outside entities, that could affect time of completion
2. Project start date, scheduled completion date, and other milestones
3. Work performed by you, your subcontractors, and suppliers
4. Submittal development, delivery, review, and approval, including those from you, your subcontractors, and suppliers
5. Procurement, delivery, installation, and testing of materials, plants, and equipment
6. Testing and settlement periods
7. Utility notification and relocation
8. Erection and removal of falsework and shoring
9. Major traffic stage switches
10. Finishing roadway and final cleanup
11. State-owned float as the predecessor activity to the scheduled completion date

Schedules must have not less than 50 and not more than 500 activities, unless otherwise authorized by the Engineer. The number of activities must be sufficient to assure adequate planning of the project, to permit monitoring and evaluation of progress, and to do an analysis of time impacts.

Schedule activities must include the following:

1. A clear and legible description.
2. Start and finish dates.
3. A duration of not less than one working day, except for event activities, and not more than 20 working days, unless otherwise authorized by the Engineer.
4. At least one predecessor and one successor activity, except for project start and finish milestones.
5. Required constraints. Constraints other than those required by the special provisions may be included only if authorized by the Engineer.
6. Codes for responsibility, stage, work shifts, location, and contract pay item numbers.

You may show early completion time on any schedule provided that the requirements of the contract are met. Early completion time is considered a resource for your exclusive use. You may increase early completion time by improving production, reallocating resources to be more efficient, performing sequential activities concurrently, or by completing activities earlier than planned. You may also submit for approval a cost reduction incentive proposal as specified in Section 5-1.14, "Cost Reduction Incentive," of the Standard Specifications that will reduce time of construction.

You may show a scheduled completion date that is later than the contract completion date on an update schedule, after the baseline schedule is accepted. Provide an explanation for a late scheduled completion date in the narrative report that is included with the schedule.

State-owned float is considered a resource for the exclusive use of the State. The Engineer may accrue State-owned float by the early completion of review of any type of required submittal when it saves time on the critical path. Prepare a time impact analysis, when requested by the Engineer, to determine the effect of the action as specified in "Time Impact Analysis." The Engineer documents State-owned float by directing you to update the State-owned float activity on the next updated schedule. Include a log of the action on the State-owned float activity and include a discussion of the action in the narrative report. The Engineer may use State-owned float to mitigate past, present, or future State delays by offsetting potential time extensions for contract change orders.

The Engineer may adjust contract working days for ordered changes that affect the scheduled completion date as specified in Section 4-1.03, "Changes," of the Standard Specifications. Prepare a time impact analysis to determine the effect of the change as specified in "Time Impact Analysis" and include the impacts acceptable to the Engineer in the next updated schedule. Changes that do not affect the controlling operation on the critical path will not be considered as the basis for a time adjustment. Changes that do affect the controlling operation on the critical path will be considered by the Engineer in decreasing time or granting an extension of time for completion of the contract. Time extensions will only be granted if the total float is absorbed and the scheduled completion date is delayed one or more working days because of the ordered change.

The Engineer's review and acceptance of schedules does not waive any contract requirements and does not relieve you of any obligation or responsibility for submitting complete and accurate information. Correct rejected schedules and resubmit corrected schedules to the Engineer within 7 days of notification by the Engineer, at which time a new review period of 7 days will begin.

Errors or omissions on schedules do not relieve you from finishing all work within the time limit specified for completion of the contract. If, after a schedule has been accepted by the Engineer, either you or the Engineer discover that any aspect of the schedule has an error or omission, you must correct it on the next updated schedule.

Computer Software

Submit to the Engineer for review a description of proposed schedule software to be used. After the Engineer accepts the proposed software, submit schedule software and all original software instruction manuals. All software must be compatible with the current version of the Windows operating system in use by the Engineer. The schedule software must include:

1. Latest version of Primavera SureTrak Project Manager for Windows, or equivalent
2. Latest version of schedule-comparing HST SureChange, or equivalent

If a schedule software equivalent to SureTrak is proposed, it must be capable of generating files that can be imported into SureTrak. The schedule-comparing software must be compatible with schedule software submitted and must be able to compare two schedules and provide reports of changes in activity ID, activity description, constraints, calendar assignments, durations, and logic ties.

The schedule software and schedule-comparing software will be returned to you before the final estimate. The Department will compensate you as specified in Section 4-1.03, "Extra Work," of the Standard Specifications for replacement of software or manuals damaged, lost, or stolen after delivery to the Engineer.

Instruct the Engineer in the use of the software and provide software support until the contract is accepted. Within 15 days of contract approval, provide a commercial 8-hour training session for 2 Department employees in the use of the software at a location acceptable to the Engineer. It is recommended that you also send at least 2 employees to the same training session to facilitate development of similar knowledge and skills in the use of the software. If schedule software other than SureTrak is submitted, then the training session must be a total of 16-hours for each Department employee.

Network Diagrams, Reports, and Data

Include the following with each schedule submittal:

1. Two sets of originally plotted, time-scaled network diagrams
2. Two copies of a narrative report
3. One read-only compact disk or floppy diskette containing the schedule data

The time-scaled network diagrams must conform to the following:

1. Show a continuous flow of information from left to right
2. Be based on early start and early finish dates of activities
3. Clearly show the primary paths of criticality using graphical presentation
4. Be prepared on 860 mm x 1120 mm (34" x 44")
5. Include a title block and a timeline on each page

The narrative report must be organized in the following sequence with all applicable documents included:

1. Transmittal letter
2. Work completed during the period
3. Identification of unusual conditions or restrictions regarding labor, equipment or material; including multiple shifts, 6-day work weeks, specified overtime or work at times other than regular days or hours
4. Description of the current critical path
5. Changes to the critical path and scheduled completion date since the last schedule submittal
6. Description of problem areas
7. Current and anticipated delays:
 - 7.1. Cause of delay
 - 7.2. Impact of delay on other activities, milestones, and completion dates
 - 7.3. Corrective action and schedule adjustments to correct the delay
8. Pending items and status thereof:
 - 8.1. Permits
 - 8.2. Change orders
 - 8.3. Time adjustments
 - 8.4. Noncompliance notices

9. Reasons for an early or late scheduled completion date in comparison to the contract completion date

Schedule submittals will only be considered complete when all documents and data have been submitted as described above.

Preconstruction Scheduling Conference

Schedule a preconstruction scheduling conference with your project manager and the Engineer within 15 days after contract approval. The Engineer will conduct the meeting and review the requirements of this section with you.

Submit a general time-scaled logic diagram displaying the major activities and sequence of planned operations and be prepared to discuss the proposed work plan and schedule methodology that comply with the requirements of this section. If you propose deviations to the construction staging, then the general time-scaled logic diagram must also display the deviations and resulting time impacts. Be prepared to discuss the proposal.

At this meeting, also submit the alphanumeric coding structure and activity identification system for labeling work activities. To easily identify relationships, each activity description must indicate its associated scope or location of work by including such terms as quantity of material, type of work, bridge number, station to station location, side of highway (such as left, right, northbound, southbound), lane number, shoulder, ramp name, ramp line descriptor, or mainline.

The Engineer reviews the logic diagram, coding structure, and activity identification system, and provide any required baseline schedule changes to you for implementation.

Baseline Schedule

Beginning the week following the preconstruction scheduling conference, meet with the Engineer weekly to discuss schedule development and resolve schedule issues until the baseline schedule is accepted.

Submit to the Engineer a baseline schedule within 20 days of approval of the contract. Allow 20 days for the Engineer's review after the baseline schedule and all support data are submitted. In addition, the baseline schedule submittal is not considered complete until the computer software is delivered and installed for use in review of the schedule.

The baseline schedule must include the entire scope of work and how you plan to complete all work contemplated. The baseline schedule must show the activities that define the critical path. Multiple critical paths and near-critical paths must be kept to a minimum. A total of not more than 50 percent of the baseline schedule activities must be critical or near critical, unless otherwise authorized by the Engineer.

The baseline schedule must not extend beyond the number of contract working days. The baseline schedule must have a data date of contract approval. If you start work before contract approval, the baseline schedule must have a data date of the 1st day you performed work at the job site.

If you submit an early completion baseline schedule that shows contract completion in less than 85 percent of the contract working days, the baseline schedule must be supplemented with resource allocations for every task activity and include time-scaled resource histograms. The resource allocations must be shown to a level of detail that facilitates report generation based on labor crafts and equipment classes for you and your subcontractors. Use average composite crews to display the labor loading of on-site construction activities. Optimize and level labor to reflect a reasonable plan for accomplishing the work of the contract and to assure that resources are not duplicated in concurrent activities. The time-scaled resource histograms must show labor crafts and equipment classes to be used. The Engineer may review the baseline schedule activity resource allocations using Means Productivity Standards or equivalent to determine if the schedule is practicable.

Updated Schedule

Submit an updated schedule and meet with the Engineer to review contract progress, on or before the 1st day of each month, beginning one month after the baseline schedule is accepted. Allow 15 days for the Engineer's review after the updated schedule and all support data are submitted, except that the review period will not start until the previous month's required schedule is accepted. Updated schedules that are not accepted or rejected within the review period are considered accepted by the Engineer.

The updated schedule must have a data date of the 21st day of the month or other date established by the Engineer. The updated schedule must show the status of work actually completed to date and the work yet to be performed as planned. Actual activity start dates, percent complete, and finish dates must be shown as applicable. Durations for work that has been completed must be shown on the updated schedule as the work actually occurred, including Engineer submittal review and your resubmittal times.

You may include modifications such as adding or deleting activities or changing activity constraints, durations, or logic that do not (1) alter the critical path(s) or near critical path(s) or (2) extend the scheduled completion date compared to that shown on the current accepted schedule. Justify in writing the reasons for any changes to planned work. If any proposed changes in planned work will result in (1) or (2) above, then submit a time impact analysis as specified in this section.

Time Impact Analysis

Submit a written time impact analysis (TIA) to the Engineer with each request for adjustment of contract time, or when you or the Engineer considers that an approved or anticipated change may impact the critical path or contract progress.

The TIA must illustrate the impacts of each change or delay on the current scheduled completion date or internal milestone, as appropriate. The analysis must use the accepted schedule that has a data date closest to and before the event. If the Engineer determines that the accepted schedule used does not appropriately represent the conditions before the event, the accepted schedule must be updated to the day before the event being analyzed. The TIA must include an impact schedule developed from incorporating the event into the accepted schedule by adding or deleting activities, or by changing durations or logic of existing activities. If the impact schedule shows that incorporating the event modifies the critical path and scheduled completion date of the accepted schedule, the difference between scheduled completion dates of the two schedules must be equal to the adjustment of contract time. The Engineer may construct and use an appropriate project schedule or other recognized method to determine adjustments in contract time until you provide the TIA.

Submit 2 copies of your TIA within 20 days of receiving a written request for a TIA from the Engineer. Allow the Engineer 15 days after receipt to review the submitted TIA. All approved TIA schedule changes must be shown on the next updated schedule.

If a TIA you submit is rejected, meet with the Engineer to discuss and resolve issues related to the TIA. If agreement is not reached, you are allowed 15 days from the meeting with the Engineer to give notice as specified in Section 9-1.04, "Notice of Potential Claim," of the Standard Specifications. Only show actual as-built work, not unapproved changes related to the TIA, in subsequent updated schedules. If agreement is reached at a later date, approved TIA schedule changes must be shown on the next updated schedule. The Engineer withholds remaining payment on the schedule contract item if a TIA is requested and not submitted within 20 days. The schedule item payment resumes on the next estimate after the requested TIA is submitted. No other contract payment is retained regarding TIA submittals.

Final Updated Schedule

Submit a final update, as-built schedule with actual start and finish dates for the activities, within 30 days after completion of contract work. Provide a written certificate with this submittal signed by your project manager or an officer of the company stating, "To my knowledge and belief, the enclosed final update schedule reflects the actual start and finish dates of the actual activities for the project contained herein." An officer of the company may delegate in writing the authority to sign the certificate to a responsible manager.

PAYMENT

Progress schedule (critical path method) will be paid for at a lump sum price. The contract lump sum price paid for progress schedule (critical path method) includes full compensation for furnishing all labor, material, tools, equipment, and incidentals, including computer software, and for doing all the work involved in preparing, furnishing, and updating schedules, and instructing and assisting the Engineer in the use of computer software, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Payments for the progress schedule (critical path method) contract item will be made progressively as follows:

1. A total of 25 percent of the item amount or a total of 25 percent of the amount listed for progress schedule (critical path method) in "Payments" of Section 5 of these special provisions, whichever is less, will be paid upon achieving all of the following:
 - 1.1. Completion of 5 percent of all contract item work.
 - 1.2. Acceptance of all schedules and approval of all TIAs required to the time when 5 percent of all contract item work is complete.
 - 1.3. Delivery of schedule software to the Engineer.
 - 1.4. Completion of required schedule software training.
2. A total of 50 percent of the item amount or a total of 50 percent of the amount listed for progress schedule (critical path method) in "Payments" of Section 5 of these special provisions, whichever is less, will be paid upon completion of 25 percent of all contract item work and acceptance of all schedules and approval of all TIAs required to the time when 25 percent of all contract item work is complete.

3. A total of 75 percent of the item amount or a total of 75 percent of the amount listed for progress schedule (critical path method) in "Payments" of Section 5 of these special provisions, whichever is less, will be paid upon completion of 50 percent of all contract item work and acceptance of all schedules and approval of all TIAs required to the time when 50 percent of all contract item work is complete.
4. A total of 100 percent of the item amount or a total of 100 percent of the amount listed for progress schedule (critical path method) in "Payments" of Section 5 of these special provisions, whichever is less, will be paid upon completion of all contract item work, acceptance of all schedules and approval of all TIAs required to the time when all contract item work is complete, and submittal of the certified final update schedule.

If you fail to complete any of the work or provide any of the schedules required by this section, the Engineer makes an adjustment in compensation as specified in Section 4-1.03C, "Changes in Character of Work," of the Standard Specifications for the work not performed. Adjustments in compensation for schedules will not be made for any increased or decreased work ordered by the Engineer in submitting schedules.

Chart No. <u>2</u> Freeway Lane Requirements																										
County: Yolo							Route: 50							KP: 0.5/3.2							PM: 0.3/1.99					
Closure Limits: Eastbound																										
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 through Thursdays	1	1	1	1	1																			2	1	1
Fridays	1	1	1	1	1																			2	2	2
Saturdays	1	1	1	1	1	1	1																2	2	2	2
Sundays	1	1	1	1	1	1	1	1															2	2	2	1
Legend:																										
1 Provide at least one through freeway lane open in direction of travel																										
2 Provide at least two adjacent through freeway lanes open in direction of travel																										
Work permitted within project right of way where shoulder or lane closure is not required.																										
REMARKS: See Lane Closure Restriction for Designated Legal Holidays and Special Days table in Maintain Traffic of these special provisions for additional closure restrictions.																										
<ul style="list-style-type: none"> 4 lanes available. 																										

Chart No. <u>3</u> Freeway Lane Requirements																										
County: Yolo							Route: 50							KP: 0.5/3.2							PM: 0.3/1.99					
Closure Limits: Westbound																										
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 through Thursdays	1	1	1	1	1																			2	1	1
Fridays	1	1	1	1	1																					1
Saturdays	1	1	1	1	1	1	1																2	2	2	1
Sundays	1	1	1	1	1	1	1	1															2	2	2	1
Legend:																										
1 Provide at least one through freeway lane open in direction of travel																										
2 Provide at least two adjacent through freeway lanes open in direction of travel																										
Work permitted within project right of way where shoulder or lane closure is not required.																										
REMARKS: See Lane Closure Restriction for Designated Legal Holidays and Special Days table in Maintain Traffic of these special provisions for additional closure restrictions.																										
<ul style="list-style-type: none"> 4 lanes available. 																										

Chart No. 4 Complete Freeway Closure Hours																										
County: Yolo					Route: 50					KP: 0.5/3.2					PM: 0.3/1.99											
Closure Limits: Eastbound																										
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 through Thursdays		C	C	C	C																					C
Fridays		C	C	C	C																					C
Saturdays		C	C	C	C	C																				
Sundays		C	C	C	C	C																				
Legend:																										
<input checked="" type="checkbox"/> C		Freeway or expressway may be closed completely.																								
<input type="checkbox"/>		No complete freeway or expressway closure is permitted.																								
REMARKS: See Lane Closure Restriction for Designated Legal Holidays and Special Days table in Maintain Traffic of these special provisions for additional closure restrictions.																										
<ul style="list-style-type: none"> • THIS CHART MAY ONLY BE USED FOR ERECTION OF GIRDERS. • Detour shall be operational during this closure. • Only one direction of US 50 may be closed at a time. 																										

Chart No. 5 Complete Freeway Closure Hours																										
County: Yolo					Route: 50					KP: 0.5/3.2					PM: 0.3/1.99											
Closure Limits: Westbound																										
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 through Thursdays		C	C	C	C																					C
Fridays		C	C	C	C																					C
Saturdays		C	C	C	C	C																				
Sundays		C	C	C	C	C																				
Legend:																										
<input checked="" type="checkbox"/> C		Freeway or expressway may be closed completely.																								
<input type="checkbox"/>		No complete freeway or expressway closure is permitted.																								
REMARKS: See Lane Closure Restriction for Designated Legal Holidays and Special Days table in Maintain Traffic of these special provisions for additional closure restrictions.																										
<ul style="list-style-type: none"> • THIS CHART MAY ONLY BE USED FOR ERECTION OF GIRDERS. • Detour shall be operational during this closure. • Only one direction of US 50 may be closed at a time. 																										

Chart No. 6 Conventional Highway Lane Requirements																									
County: Yolo					Route: 50					KP: 0.5/3.2					PM: 0.3/1.99										
Closure Limits: Harbor Boulevard NB/SB																									
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 through Thursdays	1	1	1	1	1	1																	1	1	1
Fridays	1	1	1	1	1	1																	1	1	1
Saturdays	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sundays	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Legend:																									
1 Provide at least one through traffic lane open in each direction of travel																									
Work permitted within project right of way where shoulder or lane closure is not required.																									
REMARKS:																									
<ul style="list-style-type: none"> See Lane Closure Restriction for Designated Legal Holidays and Special Days table in Maintain Traffic of these special provisions for additional closure restrictions. 4 lanes available 																									

Chart No. 7 Complete Connector Closure Hours Requirements																									
County: Yolo					Route: 50					KP: 0.5/3.2					PM: 0.3/1.99										
Closure Limits: Connector from WB 80 to EB 50																									
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 through Thursdays	C	C	C	C	C	C																	C	C	C
Fridays	C	C	C	C	C	C																	C	C	C
Saturdays	C	C	C	C	C	C	C	C														C	C	C	C
Sundays	C	C	C	C	C	C	C	C														C	C	C	C
Legend:																									
C Connector may be closed completely																									
Work permitted within project right of way where shoulder or lane closure is not required.																									
REMARKS:																									
<ul style="list-style-type: none"> See Lane Closure Restriction for Designated Legal Holidays and Special Days table in Maintain Traffic of these special provisions for additional closure restrictions. Attention is directed to Traffic Handling and Detour Layout Sheets of the Plans. Detour shall be operational. Connector from WB 50 to EB 80 shall be open during this closure. 																									

Chart No. <u>8</u> Complete Connector Closure Hours Requirements																									
County: Yolo					Route: 50					KP: 0.5/3.2					PM: 0.3/1.99										
Closure Limits: Connector from WB 50 to EB 80																									
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 through Thursdays	C	C	C	C	C	C																	C	C	C
Fridays	C	C	C	C	C	C																			C
Saturdays	C	C	C	C	C	C	C																		C
Sundays	C	C	C	C	C	C	C	C	C	C														C	C
Legend:																									
<input type="checkbox"/> C Connector may be closed completely <input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																									
REMARKS:																									
<ul style="list-style-type: none"> • See Lane Closure Restriction for Designated Legal Holidays and Special Days table in Maintain Traffic of these special provisions for additional closure restrictions. • Attention is directed to Traffic Handling and Detour Layout Sheets of the Plans. • Detour shall be operational. • Connector from WB 80 to EB 50 shall be open during this closure. 																									

Chart No. <u>9</u> Complete Ramp Closure Hours Requirements																										
County: Yolo					Route: 50					KP: 0.5/3.2					PM: 0.3/1.99											
Closure Limits: Harbor Blvd. on and off ramps																										
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 through Thursdays	C	C	C	C	C																			C	C	C
Fridays	C	C	C	C	C																			C	C	C
Saturdays	C	C	C	C	C	C	C																	C	C	C
Sundays	C	C	C	C	C	C	C	C																C	C	C
Legend:																										
<input type="checkbox"/> C Ramp may be closed completely <input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																										
REMARKS:																										
<ul style="list-style-type: none"> • See Lane Closure Restriction for Designated Legal Holidays and Special Days table in Maintain Traffic of these special provisions for additional closure restrictions. • Attention is directed to Traffic Handling and Detour Layout Sheets of the Plans. • Detour shall be operational. • Only one ramp may be closed at a time. 																										

BID ITEM LIST
03-388004

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	150760	REMOVE SIGN STRUCTURE	EA	1		
42	150767	REMOVE BRIDGE MOUNTED SIGN	EA	4		
43	150805	REMOVE CULVERT	EA	8		
44	150820	REMOVE INLET	EA	8		
45	150826	REMOVE MANHOLE	EA	2		
46	150857	REMOVE ASPHALT CONCRETE SURFACING	M2	305		
47	152320	RESET ROADSIDE SIGN	EA	1		
48	152390	RELOCATE ROADSIDE SIGN	EA	3		
49	152430	ADJUST INLET	EA	4		
50	152440	ADJUST MANHOLE TO GRADE	EA	4		
51	152441	ADJUST VALVE BOX FRAME AND COVER TO GRADE	EA	4		
52 (S)	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	M2	5620		
53	155003	CAP INLET	EA	1		
54	157560	BRIDGE REMOVAL (PORTION)	LS	LUMP SUM	LUMP SUM	
55	160101	CLEARING AND GRUBBING	LS	LUMP SUM	LUMP SUM	
56	190101	ROADWAY EXCAVATION	M3	41 000		
57	190105	ROADWAY EXCAVATION (TYPE Z-2) (AERIALY DEPOSITED LEAD)	M3	2000		
58	015322	ROADWAY EXCAVATION (TYPE Z-4) (AERIALY DEPOSITED LEAD)	M3	6000		
59 (S)	190110	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
60	015323	ROADWAY EXCAVATION (TYPE DC)	M3	570		

BID ITEM LIST**03-388004**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61 (F)	192003	STRUCTURE EXCAVATION (BRIDGE)	M3	317		
62 (F)	013243	STRUCTURE EXCAVATION (TYPE DC)	M3	1867		
63 (F)	192037	STRUCTURE EXCAVATION (RETAINING WALL)	M3	1175		
64 (F)	192053	STRUCTURE EXCAVATION (TYPE Z-2) (AERIALY DEPOSITED LEAD)	M3	12		
65 (F)	015324	STRUCTURE EXCAVATION (TYPE Z-4) (AERIALY DEPOSITED LEAD)	M3	34		
66 (F)	193003	STRUCTURE BACKFILL (BRIDGE)	M3	194		
67 (F)	193013	STRUCTURE BACKFILL (RETAINING WALL)	M3	583		
68 (F)	193030	PERVIOUS BACKFILL MATERIAL	M3	21		
69 (S)	200001	HIGHWAY PLANTING	LS	LUMP SUM	LUMP SUM	
70 (S)	203016	EROSION CONTROL (TYPE D)	M2	66 000		
71 (S)	203026	MOVE-IN/MOVE-OUT (EROSION CONTROL)	EA	1		
72 (S)	013244	WEED CONTROL MAT (FIBER)	M	190		
73 (S)	204099	PLANT ESTABLISHMENT WORK	LS	LUMP SUM	LUMP SUM	
74 (S)	208000	IRRIGATION SYSTEM	LS	LUMP SUM	LUMP SUM	
75 (S)	208724	200 MM ALTERNATIVE CONDUIT	M	240		
76 (S)	208908	EXTEND 150 MM CONDUIT	M	50		
77	260201	CLASS 2 AGGREGATE BASE	M3	32 600		
78	390102	ASPHALT CONCRETE (TYPE A)	TONN	25 900		
79	390127	RUBBERIZED ASPHALT CONCRETE (TYPE O)	TONN	110		
80	394002	PLACE ASPHALT CONCRETE (MISCELLANEOUS AREA)	M2	25		

BID ITEM LIST

03-388004

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
81	394040	PLACE ASPHALT CONCRETE DIKE (TYPE A)	M	130		
82	394044	PLACE ASPHALT CONCRETE DIKE (TYPE C)	M	30		
83	394048	PLACE ASPHALT CONCRETE DIKE (TYPE E)	M	940		
84	041249	FURNISH PILING (CLASS 900) (ALTERNATIVE X)	M	564		
85 (S)	041250	DRIVE CONCRETE PILE (CLASS 900) (ALTERNATIVE X)	EA	32		
86	041251	FURNISH PILING (CLASS 625) (ALTERNATIVE X)	M	573		
87 (S)	041252	DRIVE CONCRETE PILE (CLASS 625) (ALTERNATIVE X)	EA	32		
88 (S)	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	LUMP SUM	LUMP SUM	
89 (F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	M3	95		
90 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	M3	517		
91 (F)	510060	STRUCTURAL CONCRETE, RETAINING WALL	M3	401		
92 (F)	510314	CLASS 4 CONCRETE (BACKFILL)	M3	43.4		
93 (F)	510413	CLASS 1 CONCRETE (BOX CULVERT)	M3	460.1		
94 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	M3	53.9		
95	510524	MINOR CONCRETE (SOUND WALL)	M3	280		
96	BLANK					
97 (S)	041253	ERECT PRECAST PRESTRESSED CONCRETE BATHTUB GIRDER	EA	20		
98 (S)	041254	FURNISH PRECAST PRESTRESSED CONCRETE BATHTUB GIRDER (15M -20M)	EA	10		
99 (S)	041255	FURNISH PRECAST PRESTRESSED CONCRETE BATHTUB GIRDER (20M -25M)	EA	10		
100 (S-F)	518002	SOUND WALL (MASONRY BLOCK)	M2	2840		

BID ITEM LIST**03-388004**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
161 (S)	860090	MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS	LUMP SUM	LUMP SUM	
162 (S)	860201	SIGNAL AND LIGHTING	LS	LUMP SUM	LUMP SUM	
163 (S)	860501	SIGN ILLUMINATION	LS	LUMP SUM	LUMP SUM	
164 (S)	860508	MODIFY SIGN ILLUMINATION	LS	LUMP SUM	LUMP SUM	
165 (S)	013250	EMERGENCY VEHICLE DETECTOR SYSTEM	LS	LUMP SUM	LUMP SUM	
166 (S)	860889	MODIFY TRAFFIC MONITORING STATION	LS	LUMP SUM	LUMP SUM	
167 (S)	013251	MODIFY MICROWAVE VEHICLE DETECTION SYSTEM	LS	LUMP SUM	LUMP SUM	
168 (S)	013252	RELOCATE CLOSED CIRCUIT TELEVISION SYSTEM	LS	LUMP SUM	LUMP SUM	
169 (S)	861100	RAMP METERING SYSTEM	LS	LUMP SUM	LUMP SUM	
170 (S)	861501	MODIFY SIGNAL AND LIGHTING	LS	LUMP SUM	LUMP SUM	
171 (S)	861503	MODIFY LIGHTING	LS	LUMP SUM	LUMP SUM	
172 (S)	861504	MODIFY LIGHTING AND SIGN ILLUMINATION	LS	LUMP SUM	LUMP SUM	
173	BLANK					
174	015789	PROTECTION OF MIGRATORY BIRDS	LS	LUMP SUM	LUMP SUM	
175	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

TOTAL BID: _____