

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

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August 24, 2012

04-Son-101-0.9/3.6

04-2640U4

Project ID 0412000195

Addendum No. 3

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY AND COUNTY ROADS IN SONOMA COUNTY IN AND NEAR PETALUMA FROM GUNN DRIVE TO ROUTE 101/116 SEPARATION AND OVERHEAD.

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, September 5, 2012.

This addendum is being issued to revise the Project Plans, the Notice to Bidders and Special Provisions, the Bid book, and provide a copy of the Information Handout.

Project Plan Sheets 18, 19, 75, 89, 108, 127, 141, 300, 334, 341, 342, 343, 400, 452, 526, 554, 568, 569, 601, 776, 830, 831, 832, 844, 845, 852, 854, and 855 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

In the Notice to Bidders, the twelfth paragraph is revised as follows:

"Do not bid less than 550 working days and more than 780 working days."

In the Special Provisions, Section 2-1.07, "WORKING DAYS BID," is added as follows:

"2-1.07 WORKING DAYS BID

If your bid for time is less than or exceeds the number of working days described in the Notice to Bidders, your bid is nonresponsive."

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

In the Special Provisions, Section 5-1.12, "SUPPLEMENTAL PROJECT INFORMATION," is revised as attached.

In the Special Provisions, Section 5-1.14, "WORK WITHIN NAVIGABLE WATERS," is revised as attached.

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In the Special Provisions, Section 5-1.15, "NOISE CONTROL," the table is revised as follows:

Noise Restriction Exceptions

Activity	Hours		Days	
	From	To	From	Through
Removal of Petaluma River Bridge span over Petaluma Blvd South	9 PM	Midnight	Monday	Saturday
Cold Plane AC Pavement	9 PM	Midnight	Monday	Saturday
Removing PCC Pavement	9 PM	Midnight	Monday	Saturday

In the Special Provisions, Section 5-1.17, "SPECIES PROTECTION," is revised as attached.

In the Special Provisions, Section 5-1.18, "BIRD PROTECTION," is revised as attached.

In the Special Provisions, Section 5-1.21, "ENVIRONMENTALLY SENSITIVE AREA," the table is revised as follows:

ESA Management

Identification	Location	Management measures
ESAs for Great Blue Heron and Great Egret rookery	Locations shown on the plans	Limited access to ESA is allowed for implementation of bird nesting removal and prevention according to approved plan.
ESAs for Salt Marsh Harvest Mouse habitat	Locations shown on the plans	Limited access to ESA is allowed for installation and maintenance of temporary silt fence as exclusionary fence for Salt Marsh Harvest mouse. Notify the Engineer 5 business days before planned entry date.
ESAs for Red Legged Frog habitat	Locations shown on the plans	No access allowed
ESAs for riparian areas	Locations shown on the plans	No access allowed
ESAs for wetlands, other waters of the U.S. and other waters of the State	Locations shown on the plans	No access allowed

In the Special Provisions, Section 5-1.22, "NONHIGHWAY FACILITIES (INCLUDING UTILITIES)," is revised as attached.

In the Special Provisions, Section 5-1.24, "NATURALLY OCCURRING ASBESTOS," is added as attached.

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," is revised as attached.

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In the Special Provisions, Section 10-1.29, "RIGHT OF WAY OBSTRUCTIONS," the table is revised as follows:

Assessor's Parcel No.	State Parcel No.	Description	Estimated Date Available to Contractor
019-220-037	61883	Workaround parcel	9-17-2012
019-310-012	61868	Workaround parcel	12-2-2013
019-330-011 019-320-007 019-320-005	61874	Workaround parcel	9-17-2012
019-330-011 019-330-007 019-320-005	61874	Demolition of single family residence and barn	5-31-2013
019-320-016	61881	Workaround parcel	9-17-2012
019-330-006	62352	Workaround parcel	12-2-2013
136-010-027	62517	Workaround parcel	9-17-2012

In the Special Provisions, Section 10-1.32, "MAINTANING TRAFFIC," the fourth paragraph, items 3 and 4 are revised as follows:

"3. Trucks with 5 axles or greater will not be allowed to enter or exit the center median without Construction Zone Enhanced Enforcement Program (COZEEP) support.

4. Trucks with 5 axles or greater will not be allowed to enter or exit from center median from 5:30 to 9:30 AM and from 3 to 7 PM on weekdays."

In the Special Provisions, Section 10-1.44, "EXISTING HIGHWAY FACILITIES," subsection "DESTROY WELLS," is added as attached.

In the Special Provisions, Section 10-1.535, "MATERIAL CONTAINING NATURALLY OCCURRING ASBESTOS," is added as attached.

In the Special Provisions, Section 10-1.72, "PILING," subsection "CAST-IN-DRILLED-HOLE CONCRETE PILES," sub-subsection "CONSTRUCTION," sub-sub-subsection "General," the second paragraph is revised as follows:

"Disposal of drill cuttings shall conform to the provisions in "Material Containing Naturally Occurring Asbestos" of these special provisions."

In the Special Provisions, Section 10-5.01, "WATER DISTRIBUTION," subsection "GENERAL," sub-subsections "Connecting New Aqueduct to Existing Lines" and "Shutdown Plan" are revised as attached.

In the Special Provisions, Section 10-5.03, "MORTAR LINED AND TAPE WRAPPED STEEL PIPE," subsection "GENERAL," sub-subsection "Tape Wrap Coating," in the first paragraph, the fifth item is revised as follows:

"5. Total system thickness shall be 80 mils."

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In the Special Provisions, Section 10-5.03, "MORTAR LINED AND TAPE WRAPPED STEEL PIPE," subsection "GENERAL," sub-subsection "Tape Wrap Coating," the fourth paragraph is revised as follows:

"The term "diameter of pipe" as used in these specifications or as shown on the plans shall mean the inside diameter of the finished pipe."

In the Special Provisions, Section 10-5.34, "DISINFECTION AND BACTERIOLOGICAL TESTING," subsection "GENERAL," sub-subsection "Disinfection," the first paragraph is revised as follows:

"When disinfecting the pipeline the Contractor shall introduce disinfection material into the new pipe system in such a manner that all portions of the system are exposed to the required concentration of disinfectant for the minimum specified time period. Ensure that all pipeline extremities are included. The disinfection material shall remain in the system for 24 hours, or such time as may be approved by the Engineer. The system shall contain a chlorine residual of not less than 10 mg/L after the 24 hour soaking period. If the total residual has decreased below 10 mg/L, the system may be required to be soaked for an additional 24 hour period or rechlorinated at the request of the Engineer."

In the Bid book, in the "Bid Item List," Items 63, 78, 126, 128, 154, and 249 are revised, Items 325 and 326 are added and Item 324 is deleted as attached.

To Bid book holders:

Replace pages 6, 9, 10, 15 and 19 of the "Bid Item List" in the Bid book with the attached revised pages 6, 9, 10, 15 and 19 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 "Technical Memorandum for Sampling and Analysis of Soil and Rock Samples for Naturally Occurring Asbestos".

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 addendum and attachments are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/04/04-2640U4

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,



REBECCA D. HARNAGEL
Chief, Office of Plans, Specifications & Estimates
Office Engineer
Division of Engineering Services

Attachments

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

The 1st working day is the earlier of (1) the 15th day after contract approval or (2) the day you start work other than the measurement of controlling field dimensions or the location of utilities.

Do not start work at the job site until the Engineer approves your submittal for:

1. Baseline Progress Schedule (Critical Path Method)
2. Storm Water Pollution Prevention Plan (SWPPP)
3. Notification of Dispute Resolution Advisor (DRA) or Dispute Review Board (DRB) nominee and disclosure statement as specified in Section 5-1.15, "Dispute Resolution," of the Standard Specifications

You may enter the job site only to measure controlling field dimensions and locating utilities. Do not start other work activities until all the submittals from the above list are approved and the following information is submitted:

1. Notice of Materials To Be Used.
2. Contingency plan for reopening closures to public traffic.
3. Written statement from the vendor that the order for electrical material has been received and accepted by the vendor. The statement must show the dates that the materials will be shipped.

You may start work at the job site before the 15th day after contract approval if:

1. You obtain required approval for each submittal before the 15th day
2. The Engineer authorizes it in writing

The Department grants a time extension if a delay is beyond your control and prevents you from starting work at the job site on the 1st working day.

Complete the work within the number of working days bid.

Additional damages to those specified in Section 8-1.07, "Liquidated damages," of the Standard Specifications are \$2,300 per day starting on the 1st day after exceeding the number of working days bid until work requiring lane or shoulder closures on State Highway Route 101 is complete.

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 material shortage. The provisions in Section 5-1.116, "Differing Site Conditions (23 CFR 635.109)," of the Standard Specifications shall not apply to the unavailability of water.

DISINCENTIVES

Disincentive deductions apply to the completion of the work specified in the Disincentive table.

Comply with "Maintaining Traffic" and "Closure Requirements and Conditions" of these special provisions.

Disincentive deductions are independent of liquidated damages and damages specified in "Closure Requirements and Conditions" of these special provisions.

Complete the work specified within the time specified in the Disincentive table. If you do not complete the work within the specified time, the Department will deduct the disincentive shown for each day or hour needed to complete the work.

Work	Time of Completion of Work	Disincentive Deduction
Temporary reduction of vertical clearance within the navigable channel to remove Petaluma River Bridge.	One period of 14 consecutive days for each bridge	\$20,000 per Day
Construction of the temporary access road	60 Days, starting on the day of Contract Approval	\$8,900 per Day
Closure of the navigable channel exceeding 30 minutes for the work specified in "Work Within Navigable Waters" of these special provisions.	8 Hours for each closure,	\$20,000 per Hour
Water line shutdown to connect new aqueduct to existing water lines	16 Hours for each shutdown.	\$20,000 per Hour

Total disincentive deduction will not exceed \$849,000.

The time limit specified for the completion of the work is considered insufficient to permit completion of the work by working a normal number of hours per day or week on a single shift basis. Should you fail to maintain the progress of the work in conformance with "Progress Schedule (Critical Path Method)" of these special provisions, additional shifts will be required to the extent necessary to ensure that the progress conforms to the above mentioned schedule and that the work will be completed within the time limit specified.

Actions required by the Engineer to perform normal inspection and testing duties will not be considered as contributing to any delay in awarding incentives or to any delay that will require charging disincentives.

Full compensation for any additional costs incurred by compliance with the provisions in this section is included in the prices paid for the various contract items of work and no additional compensation will be allowed.

5-1.12 SUPPLEMENTAL PROJECT INFORMATION

The Department makes the following supplemental project information available:

Supplemental Project Information

Means	Description
Included in the Information Handout	<ol style="list-style-type: none"> 1. San Francisco Bay RWQCB 401 Certification 2. US Army Corps 404 Permit 3. US Coast Guard Bridge Permit 4. State Lands Commission Permit 5. CalOSHA Underground Classification #'s C162-097-11T thru C163-097-11T 6. CalOSHA Underground Classification #'s C007-097-12T thru C009-097-12T 7. CA Department of Fish and Game 1602 Agreement 8. US Fish and Wildlife Service Biological Opinion 9. National Oceanic and Atmospheric Administration Biological Opinion 10. Limited Site Investigation Report, dated November 2009 11. Site Investigation Report, dated February 10, 2011 12. Geotechnical Design Report dated October 20, 2011 13. Geotechnical Design Report dated March 12, 2012 14. Foundation Report, Petaluma River Bridge 15. Addendum Foundation Report, Petaluma River Bridge 16. Foundation Report, Petaluma Blvd South OC 17. Foundation Report, Retaining Wall No. 2 18. Foundation Report, Retaining Wall No. 3 19. Stormwater Information Handout 20. Ornamental Logo Concrete and Paint Coloring Handout 21. Technical Memorandum for Sampling and Analysis of Soil and Rock Samples for Naturally Occurring Asbestos
Available as specified in the Standard Specifications	<ol style="list-style-type: none"> 1. Cross sections 2. Bridge as-built

5-1.14 WORK WITHIN NAVIGABLE WATERS

GENERAL

Summary

The location of the Petaluma River Bridge work is adjacent to and across the navigable channel of the Petaluma River, which is under the jurisdiction of the United States Coast Guard (USCG). The USCG has issued to the Department a Bridge Permit that governs any work in navigable waters and is available as described in "Supplemental Project Information" of these special provisions.

This project lies within the jurisdiction of the California State Lands Commission (CSLC). The CSLC has issued to the Department a permit that governs any work in Petaluma River and is available as described in "Supplemental Project Information" of these special provisions.

Submittals

Submit to the Engineer two (2) copies of the following plans and schedules.

1. Substructure Navigable Channel Work Plan and Schedule
2. Superstructure Navigable Channel Work Plan and Schedule
3. Bridge Removal Navigable Channel Work Plan and Schedule
4. Anchor Plan

Allow 45 days for the Department's and USCG's review and approval.

For complete resubmitted drawings, allow 30 days for the review. Show set revision number. Uniquely number each revised detail. Show the number in an inverted triangle near the revised portion of the detail. In a legend, describe and date the revision.

Upon review completion, the Department returns 1 copy that shows the date approved.

To make a change to an authorized drawing, submit it as specified for a new submittal. Note the changes.

Submittal Contents

The Substructure, Superstructure, and Bridge Removal Navigable Channel Work Plans and Schedules must detail all specific operations involving the waterway of the Petaluma River and must be dimensioned in US Customary units.

The Substructure, Superstructure, and Bridge Removal Navigable Channel Work Plans and Schedules must, at a minimum, contain the following for each category of work outlined above:

1. Scaled plan and elevation drawings depicting the waterway from the existing Petaluma River Bridge and fender system to the navigable opening of the downstream Haystack Landing railroad bridge, the existing Petaluma River Bridge, all portions of work to be constructed or removed, locations of cofferdams, temporary trestles, falsework, temporary fender systems, the existing and any temporary navigable channels, existing and proposed temporary channel markers or other navigational aids, work locations and storage or anchorage locations of barges, floating platforms and other marine construction equipment.
2. Dimensions of vertical clearances at Mean High Water elevations and details of vertical clearance gauges and signs or other navigational aids provided for marine traffic.
3. Dimensions of horizontal clearances available for navigation between temporary obstructions and marine equipment placed within the river, including signs or other navigational aids provided for marine traffic.
4. Written narrative explaining construction or demolition sequencing, access across the channel for labor, equipment and materials, temporary operations in, across and/or over the required channel opening including the placement of barges, marine platforms, cranes or derricks, and a description of all other construction or demolition activities, (including construction marine traffic), within the waterway. Construction and/or demolition sequencing must be consistent with "Progress Schedule (Critical Path Method)," of these special provisions.
5. Schedules must include starting dates, durations, and completion dates of operations and navigable channel closures featured in the order of work narrative detailed in the Navigable Channel Work Plan, and may be submitted as bar charts or as narratives. Schedules must contain only the salient features discussed within the corresponding Navigable Channel Work Plan. Schedules submitted under "Progress Schedule (Critical Path Method)," of these special provisions, will not be accepted as the schedules required in this section.
6. Written narrative outlining the manner in which communications between the Contractor, the Engineer, the U.S. Coast Guard, and mariners operating vessels on the Petaluma River will be maintained.

An Anchor Plan is required when anchorings are proposed for any working or stored marine construction equipment or other vessels used during construction.

Anchor Plans must, at a minimum, contain the following for each category of work outlined above:

1. The Contractor must submit a separate Anchor Plan for each Navigable Channel Work Plan and Schedule category outlined in this section at least 35 days prior to the beginning of any associated marine anchoring.
2. The Anchor Plans must contain scaled plan drawings depicting locations for anchoring during working and non-working hours, including locations of spuds, anchors and anchor lines, or any other means of anchoring.

Revised plan and schedule submittals due to changes in the Critical Path Method progress schedule must conform to the requirements for submittal, review and approval of the initial plan and schedule.

CONSTRUCTION

Obstructions in the Navigable Channel

Obstructions placed in the Petaluma River for construction purposes, such as falsework, temporary trestle, or other marine devices, must not block more than 20 percent of the total cross-sectional area of the river at Mean Low Water elevation.

The existing 100 foot clear horizontal opening between existing fender systems as shown on the plans may be reduced for placement of cofferdams, trestles, or other temporary obstructions used for construction activities by a maximum of 5 feet from the face of the southern fender system and a maximum of 25 feet from the face of the northern fender system.

Vertical clearance within the navigable channel may be reduced for a duration not to exceed 14 calendar days for the removal of each existing Petaluma River Bridge structure. A 50 foot minimum vertical clearance must be maintained above Mean High Water elevation during bridge removal.

Temporary Navigation Lighting

Temporary navigation lighting must be placed on all obstructions within the waterway as required by the U. S. Coast Guard and must conform to the provisions in "Lighting (Navigation)" of these special provisions.

The Petaluma River Range (light) must remain visible to all vessels navigating the channel at all times. The channel marker lights must remain visible by a clear line of sight with one another at all times.

Temporary protection devices approved by the U.S. Coast Guard, such as rubber railings or dolphin piles, must be installed on all temporary channel obstructions. These temporary devices must be installed on the same working day that such obstructions are placed in the waterway.

Operations

The navigable channel may be closed for a period of time not to exceed 8 hours for the placement of trestles or cofferdams, erection of girders, erection and removal of falsework, removal of trestles or cofferdams, and for bridge removal. The Contractor must notify the Engineer a minimum of 35 days prior to any closure or series of closures that exceed 30 minutes in duration. Intermittent closures of the navigable channel for periods not to exceed 30 minutes may be permitted for other activities.

The actual dates and total lengths of time of navigable channel closures or impairments is subject to prior approval by the Engineer.

The Contractor must post advance notice of any approved closure to the public a minimum of 10 days prior to the closure, as directed by the Engineer.

Barges and other marine construction equipment including cranes and derricks are permitted to occupy and operate over the minimum required channel opening subject to the approval of a Work Plan and Schedule for that work.

Marine construction equipment must be moved out of the navigable channel at the end of each working day.

The Contractor must maintain and operate U.S. Coast Guard approved warning lights upon all marine construction equipment and all buoys which are of a size and in such location in the waterway as to endanger or obstruct navigation between the hours of sunset and sunrise, and at other times when visibility is less than one mile. Marine warning lights must be of sufficient candle power to be visible against background lighting at a distance of at least 6100 feet, and must conform to "Lighting (Navigation)" of these special provisions.

The Contractor must provide marine traffic control flagging for all public vessels entering the navigable channel through the work area during any activity that creates a hazard to marine traffic including but not limited to the placement of metal decks, concrete pours, or any work that requires the use of a crane or derrick operating over the navigable channel and for all river closures, regardless of duration. Flaggers must be located on appropriate vessels in the Petaluma River, both upstream and downstream of the hazard, to provide for the safety of all public traffic vessels entering the work area.

The Contractor must be prepared to immediately move any channel obstructions including but not limited to barges and floating platforms upon 10 minutes notice from the Engineer that the Petaluma River navigation channel is required for a rescue operation. The Contractor must not resume use of the navigation channel until the Coast Guard gives notification that rescue operations are completed. Local Coast Guard authorities must have the option to allow the Contractor to temporarily move marine construction equipment before rescue operations are completed.

Upon request of the Engineer, the Contractor must be prepared to immediately temporarily slack or temporarily remove any anchor lines interfering with navigation of other vessels while maintaining positive control of the anchored equipment or vessel.

Marine construction equipment must not be attached to any permanent or temporary fenders without prior approval of the Engineer.

Should the Contractor during the progress of the work sink, lose, or throw overboard any material, plant or machinery, the Contractor must give immediate notice to the Engineer and such object must immediately be recovered or removed from the waterway.

Material from the work must not be disposed of in the Petaluma River.

Existing navigation lighting electrical service from Petaluma Boulevard South must be maintained throughout construction.

Radio Communications

A minimum of one marine radiotelephone capable of transmitting and receiving on Channels 13 and 16 must be maintained on site and continuously monitored when working on, adjacent to, or affecting navigable waters.

All non-emergency project-related communication with the U.S. Coast Guard must be conducted through the Engineer.

When working on, adjacent to, or affecting navigable waters, the Contractor must maintain on site and continuously monitor a minimum of one marine radiotelephone capable of transmitting and receiving on Channels 13 and 16.

All communication with the U.S. Coast Guard must be conducted through the Engineer.

PAYMENT

Full compensation for conforming with the requirements of this section, including but not limited to planning, designing, preparing and transmitting Navigable Channel Work Plans, Schedules and Anchor Plans, including revisions and resubmittals, furnishing all labor, materials, equipment, and incidentals for vertical clearance gauges, buoys, other temporary navigational aids, marine flagging vessels and equipment, and operation and maintenance of marine radiotelephones, shall be considered as included in the contract prices paid for the various items of work involved and no additional compensation will be allowed.

5-1.17 SPECIES PROTECTION

GENERAL

Summary

This work includes protecting regulated species or their habitat.

This project is within or near habitat for regulated species:

California Red Legged Frog (<i>Rana draytonii</i>)
Salt Marsh Harvest Mouse (<i>Reithrodontomys raviventris</i>)
Central California Coast Steelhead (<i>Oncorhynchus mykiss</i>)
North American Green Sturgeon (<i>Acipenser medirostris</i>)
Longfin Smelt (<i>Spirinchus thaleichthys</i>)

CONSTRUCTION

Protective Radius

Upon discovery of a regulated species, stop construction activities within a 100 foot radius of the discovery. Immediately notify the Engineer. Do not resume activities until receiving written notification from the Engineer.

Protocols

Outside of the anticipated bird nesting period specified in "Bird Protection" of these special provisions, remove all nests and prevent birds from nesting on the existing and new permanent and temporary structures and trees within the radii specified in "Bird Protection" of these special provisions from existing and new permanent and temporary structures during construction.

Submit Bird Nesting Removal and Prevention Plan (2 copies) for review 15 days after contract approval. Allow 15 days for review and approval of the plan. If revisions are required, revise and resubmit the plan within 10 days of receipt of the Engineer's comments and allow 5 days for review and approval of the revisions. Do not proceed with the work on existing structures until the plan is approved.

The plan must describe:

1. Requirements of plan implementation
2. Locations of work.
3. Nesting removal, prevention, inspection and maintenance methods.
4. Equipment and materials to be used.
5. Schedule for removing nests and installing exclusion devices.

Submit a copy of the inspection records of nesting removal and prevention for the previous week to the Engineer no later than following Tuesday.

Remove unoccupied nests by mechanical or hydrological means. Dispose of the removed nests in conformance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way" of the Standard Specifications and in "Water Pollution Control" of these special provisions.

After the nests are removed, prevent birds from nesting by installing heavy delta knotless netting, ½-inch square mesh, or alternative exclusion devices approved by the Engineer.

Every other day, inspect exclusion devices and check for any signs of nesting. Maintain, repair and replace the devices to correct any problem discovered within 24 hours. Remove unoccupied new or partially built nests. Keep a written inspection record of time, date, condition, and any action taken.

If the Contractor discovers an occupied nest on any structure or any tree within the radii specified in "Bird Protection" of these special provisions from a structure, notify the Engineer and immediately stop the work within the protective radius as defined in "Bird Protection" of these special provisions. Do not resume work until directed in writing by the Engineer.

When directed by the Engineer, remove and dispose of all exclusion devices in conformance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

Biological Resource Information

Implement the following Biological Resource Information requirements.

1. All supervisory workers and State employees must receive Biological Resource Information training from the Department supplied biologist prior to being at the jobsite.
2. The Contractor must provide an office location near the jobsite for the Biological Resource Information training which will be presented by the Department supplied biologist.
3. Notify the Engineer of the location for the training classes at least 7 days prior to the first training class and ensure worker attendance.
4. Immediately after the training class, provide the Engineer with an attendance list. The attendance list must include printed and signed name of each attendee.

Protection Measures

Within the jobsite, implement the following protection measures:

1. The Contractor shall implement the Bird nesting removal and prevention plan outside of the anticipated nesting season as defined in "Bird Protection" of these special provisions. The Contractor shall maintain the bird nesting removal and prevention plan throughout the anticipated nesting season.
2. Installation and removal of cofferdams, installation and removal of temporary trestle, and use of an impact hammer within the Petaluma River banks shall be limited to July 1 to September 30. Work from the banks, trestle, falsework and inside closed cofferdams may occur year-round.
3. In-water piles must be installed during daylight hours from one hour after sunrise until one hour before sunset.
4. Initial dewatering of a cofferdam shall be done at a slow rate of approximately 20 percent of the total depth to be dewatered per hour. The Department supplied biologist will perform fish removal and relocation during dewatering activities. Notify the Engineer, in writing, two days before dewatering of a cofferdam is to begin.
5. Pickleweed or vegetation within 50 feet from the edge of pickleweed that requires removal for work activities shall be removed with nonmechanized hand tools and preserved for replanting. Removal of pickleweed or vegetation within 50 feet from the edge of pickleweed will be monitored by the Department supplied biologist. Notify the Engineer, in writing, five days before work in areas with pickleweed or vegetation within 50 feet from the edge of pickleweed is to begin.

MEASUREMENT AND PAYMENT

Full compensation for Species Protection is included in the various contract items of work and no additional compensation will be allowed.

5-1.18 BIRD PROTECTION

The Department anticipates nesting or attempted nesting by migratory and nongame birds from February 1 to August 15. Stop all work within a 100-foot radius of the discovery except as specified in the following table:

Radii Exceptions

Species	Work stoppage radii (feet)
Raptors, Great Blue Herons (<i>Ardea Herodias</i>), Great Egrets (<i>Ardea alba</i>), and Snowy Egrets (<i>Egretta thula</i>)	300
All other birds	50 feet

5-1.22 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
AT&T Aerial Telephone (Utility No. 3)	"A" 167+30 to "A" 174+15	8/30/2012
PG&E 8" Gas (Utility No. 47)	"A" 169+00 to "A" 174+00	4/30/2013
PG&E 2" Gas (Utility No. 21)	"B" 94+20 to "B" 94+60	6/30/2012
PG&E 2" Gas (Utility No. 26)	"FR1" 803+60	6/30/2012
PG&E 1/2" Gas	"FR1" 801+70	6/30/2012
PG&E 1/2" Gas	"FR1" 806+90	6/30/2012
PG&E 1/2" Gas	"FR1" 807+60	6/30/2012
PG&E 1/2" Gas	"OC1" 100+05	6/30/2012
PG&E 1/2" Gas	"OC1" 101+20	6/30/2012
NMWD 30" Water Line (Utility No. 1)	"B" 47+00 to "B" 94+00	12/31/2014
PG&E 60 KV/12 KV Overhead Electric <ul style="list-style-type: none"> • Utility No. 2 • Utility No. 2b • Utility No. 2d • Utility No. 2f • Utility No. 16 • Utility No. 17 • Utility No. 18 • Utility No. 22 • Utility No. 39 • Utility No. 40 • Utility No. 41 • Utility No. 43 • Utility No. 48 • Utility No. 49 • Utility No. 50 	"B" 87+50 to "A" 168+80	4/30/2013

Utility	Location	Date
PG&E 12KV Overhead Electric • Utility No. 37 • Utility No. 46	"OC1" 111+30 to "OC1" 112+40 "A" 140+10 to "A" 142+40	4/30/2013
PG&E Underground Electric (Utility No. 5a)	"B" 49+00 to "B" 50+00	4/30/2013
PG&E 1/2" Gas (Utility No. 15a)	"B" 75+15 to "B" 76+80	9/30/2013
PG&E 8" Gas (Utility No. 47)	"A" 137+30 to "A" 138+30	4/30/2013
AT&T Aerial Telephone • Utility No. 3 • Utility No. 19 • Utility No. 19a • Utility No. 24a • Utility No. 30 • Utility No. 43a	"B" 88+00 to "A" 151+00	8/30/2013
AT&T Underground Telephone • Utility No. 24 • Utility No. 34 • Utility No. 38	"FR1" 798+90 to "A" 142+70	8/30/2013
AT&T 5-Telephone Poles	"FR1" 799+25 to "OC1" 101+75	4/30/2013
NMWD 2" Water Line (Utility No. 4)	"B" 49+00 to "B" 50+00	12/31/2014

During the progress of the work under this Contract, the utility owner will relocate a utility shown in the following table within the corresponding number of days shown. Notify the Engineer before you work within the approximate location of a utility shown. The days start on the notification date.

Utility Relocation and Department-Arranged Time for the Relocation

Utility	Location	Days
Call Boxes	Various	20

Installation of the utilities shown in the following table requires coordination with your activities. Make the necessary arrangements with the utility company through the Engineer and submit a schedule:

1. Verified by a representative of the utility company
2. Allowing at least the time shown for the utility owner to complete its work

Utility Relocation and Contractor-Arranged Time for the Relocation

Utility	Location	Days
PG&E 12" and 1" Gas Transmission Utility No. 9 • Utility No. 20	"B" 94+20 to "B" 132+60	180 working days
NMWD 30" Water Line (Utility No. 1)	"B" 94+00 to "B" 114+00	100 working days
PG&E 60KV Overhead Electric Guy Wires and Anchor Blocks	"A" 159+00 to "A" 160+50	25 working days

The utilities shown in the following table may interfere with pile driving, drilling activities, or subsurface construction, but the utility owner will not rearrange them. If you want any of them rearranged or temporarily deactivated, make arrangements with the utility owner.

Utilities Not Rearranged for Pile Driving, Drilling Activities, or Subsurface Construction

Utility	Location
PG&E Underground Electric (Utility No. 2g)	"A" 168+69 to "A" 174+15
NMWD 2" Water Line (Utility No. 4)	"B" 47+50 to "B" 49+00
PG&E Underground Electric (Utility No. 5a)	"B" 48+10 to "B" 49+00
PG&E 12" Gas Transmission (Utility No. 9)	"B" 61+00 to "B" 94+20, "B" 132+60 to "B" 137+00
NMWD 2" Water Line (Utility No. 12)	"B" 73+90 to "B" 76+00
PG&E Underground Electric (Utility No. 13)	"B" 75+90
PG&E 1/2" Gas (Utility No. 15)	"B" 76+80
PG&E Underground Electric	"FR1" 794+90 to "FR1" 795+30
AT&T Underground Telephone (Utility No. 19b)	"B" 94+40
PG&E 1" Gas (Utility No. 20)	"B" 94+00 to "B" 94+60
PG&E 2" Gas (Utility No. 21)	"B" 94+00 to "B" 94+20
PG&E 8" Gas (Utility No. 23)	"FR1" 793+60 to "OC1" 108+40
NMWD 6" Water Line (Utility No. 25)	"FR1" 802+80 to "OC1" 102+70
PG&E 1/2" Gas	"OC1" 100+20
PG&E 3/4" Gas	"OC1" 102+60
PG&E 1/2" Gas	"OC1" 108+05
SCWA 30" Water Line (Utility No. 31)	"OC1" 105+00 to "OC1" 105+60
SCWA 30" Water Line (Utility No. 32)	"OC1" 105+80 to "OC1" 108+20
PG&E Underground Electric (Utility No. 33)	"OC1" 105+70
SCWA 30" Aqueduct (Utility No. 36)	"B" 115+30 to "B" 117+20, "A" 146+20 to "A" 160+00
PG&E 3/4" Gas (Utility No. 44)	"A" 140+70 to "A" 142+80
PG&E 8" Gas (Utility No. 47)	"B" 137+00 to "A" 137+30, "A" 138+30 to "A" 169+00, "A" 174+00 to "A" 174+80
NMWD 10" Water Line (Utility No. 51)	"FR2" 652+30 to "FR2" 652+90
NMWD 12" Water Line (Utility No. 51a)	"FR2" 645+50 TO "FR2" 652+30
QWEST/COMCAST 2-2" Underground Fiber Optic (Utility No. 54)	"A" 161+00 to "A" 181+50
Private 2" Water Line	"B" 76+00

5-1.24 NATURALLY OCCURRING ASBESTOS

Naturally occurring asbestos (NOA) is present within the project limits. Material containing NOA is material that has an asbestos content of 0.25 percent or greater as defined in California Code of Regulations, Title 17, Section 93105 "Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying, and Surface Mining Operations." These provisions are also applicable when work is located in serpentine and ultramafic rock.

Handling, stockpiling, transporting, and disposing of material containing NOA must comply with "Material Containing Naturally Occurring Asbestos" of these special provisions.

Notify the Engineer and the Air Pollution Control District (APCD) at least 15 days before starting work that disturbs material containing NOA. Maintain and make available at the job site a copy of the APCD notification and exemption, if appropriate. Provide the Engineer a copy of the APCD notification and exemption, if approved.

The Technical Memorandum for Sampling and Analysis of Soil and Rock Samples for Naturally Occurring Asbestos is available as specified in "Project Information" of these special provisions.

After you have completed the handling and placement of material containing NOA in accordance with these special provisions, as certified by the Engineer, you will have no further responsibility for the NOA material in place within the right-of-way. You will not be considered a generator of the hazardous material, and the Department requires no further cleanup, removal, or remedial actions for the material containing NOA will be required within the right-of-way.

Excavate, stockpile, reuse, and dispose of material containing hazardous levels of NOA under the rules and regulations of the following agencies:

1. United States Environmental Protection Agency
 2. Department of Toxic Substances Control
 3. California Department of Public Health
 4. California Division of Occupational Safety and Health Administration
 5. California Air Resources Board
 6. Bay Area Air Quality Management District
- Handle and transport material containing hazardous levels of NOA to comply under Federal and State laws and regulations and county and municipal ordinances and regulations. Laws and regulations that govern this work include:

1. California Code of Regulations, Title 8, Section 1529 (Asbestos) and Section 5192 (Hazardous Waste Operations and Emergency Response)
2. California Code of Regulations, Title 17, Section 93105 (Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying, and Surface Mining Operations) and Section 93106 (Asbestos Airborne Toxic Control Measure for Surfacing Applications)
3. California Code of Regulations, Title 22, Division 4.5, Chapter 10 (Environmental Health Standards for the Management of Hazardous Waste)
4. Health and Safety Code, Division 20, Chapter 6.5 (Hazardous Waste Control)
5. Code of Federal Regulations, Part 1926, Section 1101, (Asbestos)

10-1.01 ORDER OF WORK

Order of work shall conform to the provisions in Section 5-1.05, "Order of Work," of the Standard Specifications and these special provisions.

Installation and removal of cofferdams, installation and removal of temporary trestles, and use of an impact hammer within the Petaluma River shall be limited to July 1 to September 30. Work from the banks, trestle, falsework and inside closed cofferdams may occur year-round.

Work within the stream channel of Unnamed Stream No. 1 and Unnamed Stream No. 2 shall occur between June 15 and October 15.

A first order of work shall be to implement bird nesting removal and prevention from August 15 to February 1.

A first order of work shall be to perform clearing and grubbing along the proposed PG&E overhead facilities shown in the utility plans.

A first order of work shall be to remove the billboard sign structure shown as sign no. S7-27 in the plans.

A first order of work shall be to complete construction of the temporary access road. Upon completion of the temporary access road, the portion of the road from Sta "AC3" 23+24 to 34+83 and from Sta "AC4" 23+26 to 23+82 shall be made available for shared use with Contract No. 04-2640K4.

A first order of work shall be the removal of pickleweed from the drainage ditch located between the Petaluma River and the northern abutment of the Petaluma River Bridge prior to any construction under the Petaluma River Bridge and north of the Petaluma River. This work shall conform to "Species Protection" of these special provisions.

A first order of work shall be the construction of the 24" temporary culvert at Sta "A" 178+00, prior to any construction under the Petaluma River Bridge north of the Petaluma River.

Attention is directed to "Right of Way Obstructions" of these special provisions regarding the availability occupied improvements located within the right of way.

Retaining Wall No. 3 as shown on the plans, must be constructed outside of the bird nesting season as specified in "Bird Protection" of these special provisions.

The Temporary Construction Easement on Parcels 019-210-038, 019-210-010 and 019-210-039 as shown on Plan Sheet C-35 shall be used for construction ingress and egress only. Construction staging including storage of equipment, materials, trailers and contractor and personal vehicles on these parcels shall not be permitted.

A first order of work shall be to set and maintain bike detour throughout the life of the contract.

Attention is directed to "North Marin Water District (NMWD) Water Line Relocation" of these special provisions. All work specifically required for the NMWD water line relocation shall be done following the permanent closure of the Kastania Road connection to Rte 101 at station "B" 95+00.

Relocation of 12" gas transmission line and 30" water line from line FR2 Sta 595+00 to Sta 635+00 shall be arranged with the utility companies in the following order:

1. The Contractor completes earthwork up to the grading plane and construct units of the drainage systems located under new vertical alignment of gas transmission line.
2. PG&E relocates gas transmission line.
3. North Marin Water District relocates water line.

The Contractor shall protect the PG&E gas transmission line between Sta FR2 608+50 and 614+00. Final roadway slope construction shall be completed after relocation of PG&E gas transmission line is complete. Attention is directed to "Nonhighway Facilities (Including Utilities) of these special provisions.

The Contractor shall protect the PG&E tower, guy wires, and anchor blocks between Sta A 159+00 and 160+50. Construction vehicles shall not be allowed to operate within 10 feet from the guy wires and guy anchors. The Contractor shall submit a work plan to the Engineer for approval at least 30 days in advance of working around the tower and guy wires. The work plan shall include means and methods for protecting the existing tower, guy wires, and anchor blocks during placement of embankment material. The Contractor shall make the necessary arrangements with PG&E to reset the guy wires and anchor blocks upon completion of embankment construction.

The Contractor shall not leave partial pavement structural depths over the rainy/non-paving season. All structural sections shall be completed in one season, before the winter season begins, except for the final layer of OGFC or RHMA.

The existing jughandle acceleration lane located on the east side along northbound Rte 101 at approximate station B 94+00 to 102+00 which serves Kastania Road and the driveway on the east side of Rte 101 shall remain open to traffic at all times until the existing access from Kastania Road to Rte 101 is closed and the new Petaluma Boulevard South Interchange is open to local traffic from Kastania Road.

Attention is directed to "Architectural Surface (Textured Concrete)" of these special provisions regarding constructing test panels for multiple types of concrete texturing prior to constructing permanent architectural textures.

Attention is directed to "Ornamental Logo" of these special provisions regarding constructing an ornamental test logo prior to constructing permanent ornamental logos.

Attention is directed to "Soil Nails" of these special provisions regarding the submittal of working drawings for soil nails.

Attention is directed to "Miscellaneous Concrete Construction" of these special provisions regarding constructing a 2' x 2' test panel prior to constructing curb ramps with detectable warning surfaces.

Attention is directed to "Shotcrete" of these special provisions regarding constructing 2 preconstruction shotcrete test panels prior to performing shotcrete work.

Attention is directed to "Environmentally Sensitive Area" and "Temporary Fence (Type ESA)" of these special provisions. Prior to beginning work, the boundaries of the Environmentally Sensitive Areas (ESA) shall be clearly delineated in the field. The boundaries shall be delineated by the installation of temporary fence (Type ESA).

Attention is directed to "Prepare and Stain Concrete" of these special provisions regarding constructing test panels for multiple types of stained concrete prior to constructing permanent stained concrete.

The first order of work shall be to place the order for the electrical equipment.

The uppermost layer of new pavement shall not be placed until all underlying conduits and loop detectors have been installed.

Attention is directed to "Maintaining Traffic" and "Temporary Pavement Delineation" of these special provisions and to the stage construction sheets of the plans.

The work shall be performed in conformance with the stages of construction shown on the plans. Nonconflicting work in subsequent stages may proceed concurrently with work in preceding stages, provided satisfactory progress is maintained in the preceding stages of construction.

In each stage, after completion of the preceding stage, the first order of work shall be the removal of existing pavement delineation as directed by the Engineer. Pavement delineation removal shall be coordinated with new delineation so that lane lines are provided at all times on traveled ways open to public traffic.

Before obliterating any pavement delineation (traffic stripes, pavement markings, and pavement markers) that is to be replaced on the same alignment and location, as determined by the Engineer, the pavement delineation shall be referenced by the Contractor, with a sufficient number of control points to reestablish the alignment and location of the new pavement delineation. The references shall include the limits or changes in striping pattern, including one- and 2-way barrier lines, limit lines, crosswalks and other pavement markings. Full compensation for referencing existing pavement delineation shall be considered as included in the contract prices paid for new pavement delineation and no additional compensation will be allowed therefor.

Prior to applying hot mix asphalt, the Contractor shall cover all manholes, valve and monument covers, grates, or other exposed facilities located within the area of application, using a plastic or oil resistant construction paper secured to the facility being covered by tape or adhesive. The covered facilities shall be referenced by the Contractor, with a sufficient number of control points to relocate the facilities after the hot mix asphalt has been placed. After completion of the hot mix asphalt operation, all covers shall be removed and disposed of in a manner satisfactory to the Engineer. Full compensation for covering manholes, valve and monument covers, grates, or other exposed facilities, referencing, and removing temporary cover shall be considered as included in the contract price paid per ton for hot mix asphalt, and no additional compensation will be allowed therefor.

At the end of each working day if a difference in excess of 0.15 foot exists between the elevation of the existing pavement and the elevation of excavations within 5 feet of the traveled way, material shall be placed and compacted against the vertical cuts adjacent to the traveled way. During excavation operations, native material may be used for this purpose; however, once placing of the structural section commences, structural material shall be used. The material shall be placed to the level of the elevation of the top of existing pavement and tapered at a slope of 4:1 (horizontal:vertical) or flatter to the bottom of the excavation. Full compensation for placing the material on a 4:1 slope, regardless of the number of times the material is required, and subsequent removing or reshaping of the material to the lines and grades shown on the plans shall be considered as included in the contract price paid for the materials involved and no additional compensation will be allowed therefor. No payment will be made for material placed in excess of that required for the structural section.

At those locations exposed to public traffic where guard railings or barriers are to be constructed, reconstructed, or removed and replaced, the Contractor shall schedule operations so that at the end of each working day there shall be no post holes open nor shall there be any railing or barrier posts installed without the blocks and rail elements assembled and mounted thereon.

Some plants required for this project may not be readily available and may have to be grown specifically for this project. Within 30 days after the contract has been approved, furnish to the Engineer a statement from the vendor that the order for the plants to be grown for this contract, including inspection plants and replacement plants, has been received and accepted by the vendor. The statement from the vendor must include the names, sizes, and quantities of plants ordered and the anticipated dates of delivery. Notify the Engineer in writing when the vendor has started to grow the plants.

At least 60 days before planting the plants, furnish the Engineer a statement from the vendor that the order for the plants required for this contract, including inspection plants, has been received and accepted by the vendor. The statement from the vendor must include the names, sizes, and quantities of plants ordered and the anticipated date of delivery.

Place orders for replacement plants with the vendor at the appropriate time so that the roots of the replacement plants are not in a root-bound condition.

At least 60 days before applying seeds, furnish the Engineer a statement from the vendor that the order for the seed required for this contract has been received and accepted by the vendor. The statement from the vendor must include the names and quantity of seed ordered and the anticipated date of delivery.

At least 60 days before applying a straw other than wheat, barley, or rice, furnish the Engineer a statement from the vendor that the order for the type of straw required for this contract has been received and accepted by the vendor. The statement from the vendor must include the names and quantity of the type of straw ordered and the anticipated date of delivery.

When embankment settlement periods or surcharge embankment settlement periods are specified, the settlement periods and the deferment of portions of the work shall comply with the provisions in Section 19-6.025, "Settlement Period," of the Standard Specifications and in "Earthwork" of these special provisions.

DESTROY WELLS

General

Summary

This work consists of destroying wells. Destroying wells must comply with:

1. Regulations of Sonoma County
2. *Water Well Standards, Bulletin 74-81*
3. *Water Well Standards, Bulletin 74-90*
4. Water Code, §§ 13750.5–13753

Destroy wells after clearing and grubbing and before starting earthwork.

Where pumping equipment is present, remove the pump, motor, discharge piping, well cap, and appurtenances. Remove concrete at the wellhead.

Submittals

Obtain a well permit from Sonoma County. Before starting the affected work, submit the permit to the Engineer.

Per the instructions from the California Department of Water Resources, submit the *Well Completion Report* form. After completion of the work and before Contract acceptance, submit a copy of your well completion report to the Engineer.

Materials

Unless otherwise required by Sonoma County, sealing materials must be either of the following:

1. Neat cement consisting of:
 - 1.1. 94 lb of cement
 - 1.2. Not more than 6 gal of clean water
 - 1.3. Up to 6 percent by weight of bentonite
 - 1.4. 2 percent by weight of calcium chloride
2. Bentonite clay

Do not use drilling mud.

Construction

If the Engineer orders the removal of surface obstructions or materials that would interfere with destroying the well, this work is change order work. After completion of this work, do not allow material to enter the well that will obstruct or interfere with destroying the well.

Remove casing to 5 feet below grade.

Place sealing material such that it is placed in one continuous operation. Use methods that prevent jamming, bridging, free fall, or dilution. Do not allow separation of the aggregate and cement.

Completely fill the well with sealing material such that the sealing material spills over the casing.

At the time of placement, verify that the combined volume of sealing material is at least equal to the volume of the empty well.

Do not disturb the well for 48 hours after placing the sealing material.

Fill depressions around the well with native material and compact to finish grade. Native material must not contain organic matter.

Measurement and Payment

The contract unit price paid for destroy well includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in destroying the well, complete in place, including permits, sealing materials, and removal of pumping equipment, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

10-1.535 MATERIAL CONTAINING NATURALLY OCCURRING ASBESTOS

This work includes specifications for handling, stockpiling, transporting, and disposing of material containing naturally occurring asbestos (NOA). The State regulates material containing NOA and material from areas where serpentine or ultramafic rock is present. Material containing NOA is material containing 0.25 percent or greater concentration of asbestos. Naturally occurring asbestos (NOA) is present within the job site limits. The tested levels of NOA range from 0.0005 to 10.0 percent asbestos, with an average of 0.85 percent as analyzed by California Air Resources Board (CARB) Test Method 435.

Perform earthwork in areas containing NOA under Section 19, "Earthwork," of the Standard Specifications and these special provisions. A copy of the asbestos testing report is available as specified in "Supplemental Project Information" of these special provisions.

Notify the Air Pollution Control District (APCD) or Air Quality Management District (AQMD) at least 15 days before starting work in areas containing NOA and comply with the California Air Resources Board (CARB), Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying and Surface Mining Operations (ATCM) under California Code of Regulations (CCR), Title 17, Section 93105 (d)(1)(A). Comply with the ATCM during all earthwork activities on the job site.

Material containing NOA exists between 20 feet left and 92 feet right measured horizontally from the roadway centerline from Station "A" 172+77 to Station "A" 175+79, and from a depth of 20 feet to 58 feet below existing grade or as shown on the plans.

Do not leave NOA surface areas exposed unless these areas are stabilized by being kept wetted or by being treated with a chemical dust palliative. Cover disturbed material containing NOA permanently placed during construction activities with a 3 inch minimum layer of asbestos-free material that has been certified by the Engineer. Survey the locations where material containing NOA is placed using GPS, electronic theodolite, or other methods approved by the Engineer and submit the information to the Engineer.

Material with 0.25 percent or higher of NOA must not be left exposed on the surface if disturbed.

MEASUREMENT AND PAYMENT

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

Surveying locations where material containing NOA is placed and reporting survey data to the Engineer will be paid for as extra work as provided in Section 4-1.03D, "Extra Work", of the Standard Specifications.

Connecting New Aqueduct To Existing Lines

A work plan is required for connecting new aqueduct to existing lines. The flow of water in the existing water lines must not be stopped for longer than 16 hours to make all the connections. Submit a detailed work plan describing how to complete all work on each of the water lines described in 10-5.01 "GENERAL," of these special provisions.

The Engineer will have eight weeks to review the work plan and either approve it or request the Contractor to revise it. If the Engineer requires revisions to the work plan before approving it, then engineer will have three weeks to review and approve any required resubmittals of the work plan.

Shutdown Plan

Submit a shutdown plan outlining the procedures, schedules, and methods intended for use for the shutdown and connections.

The shutdown plan must comply with the following schedule constraints. Shutdowns and tie-ins must:

1. be performed between November 1 and March 15.
2. not be performed during any state observed holidays.
3. be completed in one 16 hour time period.
4. only occur during night hours (10:00 PM to 6:00 AM) on the nights of Monday, Tuesday, Wednesday and Thursday.
5. occur when all pipelines and appurtenances are on site, hydrostatically tested, flushed, disinfected, bacteriologically tested, accepted and approved by the Engineer in writing and ready for use.

The shutdown plan must include the following documentations:

1. Manufacture's certificate of compliance that all Equipment and Appurtenances are in compliance with AWWA C 303 and all tests have been performed in accordance with the requirements of AWWA.
2. Reporting Forms from water agencies approving the Contractor's chlorination and disinfection testing of the water.
3. Contractor's procedures and preparedness to deal with existing out of round pipe if encountered during the tie-ins activity.
4. Schedule and list of material on hand for making the connections.
5. Procedure and order of work for making all physical connections within one 16- hour time period.

Comply with "Dewatering and Non-storm Water Discharge Control" of these special provisions for dewatering plan.

BID ITEM LIST
04-2640U4

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61	150742	REMOVE ROADSIDE SIGN	EA	98		
62	150743	REMOVE SIGN FROM ELECTROLIER	EA	6		
63	150757	REMOVE SIGN STRUCTURE (EA)	EA	3		
64	150809	REMOVE CULVERT (LF)	LF	1,920		
65	150820	REMOVE INLET	EA	17		
66	150821	REMOVE HEADWALL	EA	15		
67	150826	REMOVE MANHOLE	EA	1		
68	150841	REMOVE SEWER PIPE	LF	450		
69	150854	REMOVE CONCRETE PAVEMENT (CY)	CY	2,840		
70	150860	REMOVE BASE AND SURFACING	CY	17,700		
71	151286	SALVAGE SIGN STRUCTURE	EA	1		
72	152370	RELOCATE MAILBOX	EA	7		
73	023803	RELOCATE CLUSTER MAILBOX	EA	1		
74	152381	RELOCATE GATE	EA	1		
75	152390	RELOCATE ROADSIDE SIGN	EA	5		
76	152430	ADJUST INLET	EA	2		
77	152438	ADJUST FRAME AND COVER TO GRADE	EA	14		
78	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	1,750		
79	153121	REMOVE CONCRETE (CY)	CY	350		
80	153221	REMOVE CONCRETE BARRIER	LF	280		

BID ITEM LIST
04-2640U4

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
121	203034	ROLLED EROSION CONTROL PRODUCT (NETTING)	SQFT	1,160,000		
122	204013	PLANT (GROUP M)	EA	17,700		
123 (F)	208028	3" SUPPLY LINE (BRIDGE)	LF	404		
124	208738	8" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	LF	390		
125	250401	CLASS 4 AGGREGATE SUBBASE	CY	30,300		
126	260203	CLASS 2 AGGREGATE BASE (CY)	CY	24,900		
127	280000	LEAN CONCRETE BASE	CY	15,700		
128	390131	HOT MIX ASPHALT	TON	49,900		
129	390136	MINOR HOT MIX ASPHALT	TON	6		
130	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	7,780		
131	393003	GEOSYNTHETIC PAVEMENT INTERLAYER	SQYD	1,230		
132	394060	DATA CORE	LS	LUMP SUM	LUMP SUM	
133	394073	PLACE HOT MIX ASPHALT DIKE (TYPE A)	LF	1,730		
134	394074	PLACE HOT MIX ASPHALT DIKE (TYPE C)	LF	330		
135	394076	PLACE HOT MIX ASPHALT DIKE (TYPE E)	LF	10,700		
136	394077	PLACE HOT MIX ASPHALT DIKE (TYPE F)	LF	1,310		
137	394090	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)	SQYD	19		
138	397005	TACK COAT	TON	47		
139	460200	GROUND ANCHOR	EA	36		
140	043873	44" PERMANENT STEEL CASING	LF	629		

BID ITEM LIST

04-2640U4

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
141	490601	16" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	32		
142	490603	24" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	3,091		
143	490605	36" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	6,955		
144	043874	44" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	629		
145	043875	FURNISH PILING (CLASS 90) (ALTERNATIVE "X")	LF	1,112		
146	043876	DRIVE PILE (CLASS 90) (ALTERNATIVE "X")	EA	15		
147	043877	FURNISH PILING (CLASS 140) (ALTERNATIVE "X")	LF	5,708		
148	043878	DRIVE PILE (CLASS 140) (ALTERNATIVE "X")	EA	73		
149	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	LUMP SUM	LUMP SUM	
150	043879	PRESTRESSING (TRANSVERSE)	LS	LUMP SUM	LUMP SUM	
151	500020	PRESTRESSING PRECAST GIRDER	LS	LUMP SUM	LUMP SUM	
152	510000	SEAL COURSE CONCRETE	CY	632		
153 (F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	5,583		
154 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	CY	10,572		
155 (F)	510060	STRUCTURAL CONCRETE, RETAINING WALL	CY	1,563		
156	043880	STRUCTURAL CONCRETE, RETAINING WALL (LOCATION 1)	CY	810		
157 (F)	510072	STRUCTURAL CONCRETE, BARRIER SLAB	CY	791		
158 (F)	510086	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	CY	543		
159 (F)	510090	STRUCTURAL CONCRETE, BOX CULVERT	CY	215		
160 (F)	023814	STRUCTURAL CONCRETE (HEADWALL/WINGWALL)	CY	62		

BID ITEM LIST
04-2640U4

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
241	721007	ROCK SLOPE PROTECTION (1/4T, METHOD B)	CY	140		
242	721012	ROCK SLOPE PROTECTION (NO. 3, METHOD B)	CY	9		
243	721015	ROCK SLOPE PROTECTION (LIGHT, METHOD B) (CY)	CY	620		
244	721420	CONCRETE (DITCH LINING)	CY	820		
245	729011	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	SQYD	2,290		
246	023828	CATTLE GUARD	EA	1		
247	731502	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	CY	190		
248 (F)	023829	MINOR CONCRETE (GUTTER)	LF	258		
249	731530	MINOR CONCRETE (TEXTURED PAVING)	SQFT	11,600		
250 (F)	750001	MISCELLANEOUS IRON AND STEEL	LB	50,582		
251 (F)	750501	MISCELLANEOUS METAL (BRIDGE)	LB	28,858		
252 (F)	750505	BRIDGE DECK DRAINAGE SYSTEM	LB	62,186		
253	800052	FENCE (TYPE WM, WOOD POST)	LF	12,500		
254	023830	DEER FENCE	LF	840		
255 (F)	800320	CHAIN LINK FENCE (TYPE CL-4)	LF	4,440		
256	800360	CHAIN LINK FENCE (TYPE CL-6)	LF	12,500		
257 (F)	800365	CHAIN LINK FENCE (TYPE CL-6, SLATTED)	LF	258		
258	023831	CHAIN LINK FENCE (TYPE CL-8, SLATTED)	LF	340		
259	801190	12' WIRE MESH GATE	EA	6		
260	802580	12' CHAIN LINK GATE (TYPE CL-6)	EA	10		

BID ITEM LIST
04-2640U4

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
321	023852	GENERAL PACKET RADIO SYSTEM (GPRS) WIRELESS MODEM ASSEMBLY	EA	4		
322	023853	EMERGENCY VEHICLE DETECTOR SYSTEM	LS	LUMP SUM	LUMP SUM	
323	023854	DIAL-UP MODEM	EA	1		
324	BLANK					
325	150230	DESTROY WELL	EA	2		
326	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

TOTAL BID FOR ITEMS:

\$ _____

TOTAL BID FOR TIME:

$$\frac{\text{WORKING DAYS BID (Not less than 550 and Not to exceed 780 Days)}}{\text{COST PER DAY}} \times \$10,500.00 = \$ \underline{\hspace{2cm}}$$

TOTAL BID FOR COMPARISON (COST PLUS TIME):

\$ _____