



06-Tul-99-19.8/25.0  
06-0E0704  
Project ID 0600020126

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the ninth paragraph is revised as follows:

"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 8 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."

In the Special Provisions, Section 10-1.19, "CHANNELIZER," the third paragraph is deleted.

In the Special Provisions, Section 10-1.19, "CHANNELIZER," the fourth paragraph is revised as follows:

"When no longer required for the work as determined by the Engineer, channelizers and underlying adhesive used to cement the channelizer bases to the pavement shall be removed. Removed channelizers and adhesive shall become the property of the Contractor and shall be removed from the site of work."

In the Special Provisions, Section 10-1.205, "TREATED WOOD WASTE," is added as attached.

In the Special Provisions, Section 10-1.21, "EXISTING HIGHWAY FACILITIES," is revised as attached.

In the Special Provisions, Section 10-1.22, "REMOVAL OF ASBESTOS CONTAINING MATERIALS-BRIDGES AND NON-BUILDING STRUCTURES," is revised as attached.

In the Special Provisions, Section 10-1.32, "HOT MIX ASPHALT," subsection "CONSTRUCTION," sub-subsection "Widening," the first paragraph is revised as follows:

"If widening existing pavement, construct new structural section on both sides of the existing pavement to match the elevation of the existing pavement's edge in increments of not more than 1000 feet before placing HMA over the existing pavement."

In the Special Provisions, Section 10-1.33, "RUBBERIZED HOT MIX ASPHALT (GAP GRADED)," subsection "MATERIALS," sub-subsection "Asphalt Rubber Binder Content," under the first paragraph Item 2.7 is revised as follows:

"2.7. From the curve plotted in Step 2.3, select the theoretical asphalt rubber binder content that has 5.0 percent air voids."

Addendum No. 1  
Page 3  
November 23, 2011

06-Tul-99-19.8/25.0  
06-0E0704  
Project ID 0600020126

In the Bid book, in the "Bid Item List," Items 5 and 45 are revised. Items 68 and 69 are added and Item 67 is deleted as attached:

To Bid book holders:

Replace pages 3, 5 and 6 of the "Bid Item List" in the Bid book with the attached revised pages 3, 5 and 6 of the Bid Item List. The revised Bid Item List is to be used in the bid.

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

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

Submit bids in the Bid book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

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

**[http://www.dot.ca.gov/hq/esc/oe/project\\_ads\\_addenda/06/06-0E0704](http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/06/06-0E0704)**

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,



*for*  
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 55th 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.

You may start work at the job site before the 55th day after contract approval if:

1. You obtain required approval for each submittal before the 55th 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 160 working days.

**5-1.11 SPECIES PROTECTION ✓**

**GENERAL**

**Summary**

This work includes protecting regulated species or their habitat.  
This project is within or near habitat for regulated species:

|                     |
|---------------------|
| San Joaquin kit fox |
| Swainson's Hawk     |

**CONSTRUCTION**

**Protective Radius**

Upon discovery of a regulated species, stop construction activities within a 150 foot radius of the discovery or as defined in the table below. Immediately notify the Engineer. Do not resume activities until receiving written notification from the Engineer.

| Regulated Species Name | Protective Radius |
|------------------------|-------------------|
| Swainson's Hawk        | 0.5 mile          |

**Biological Resource Information**

Implement the following Biological Resource Information requirements:

1. All construction-related access must be kept within project limits and to existing highway and associated paved or graded shoulders or other designated areas clearly marked on the ground.
2. Project-related traffic shall observe a 20 mile per hour speed limit except on roads or highways open for public use.
3. The Contractor shall immediately notify the Engineer if a dead, injured or entrapped kit fox is found. All construction activity within 150 feet radius of the kit fox shall be halted and may not resume until the Engineer provides written authorization. Any entrapped kit fox shall be permitted to escape. No injured or dead kit fox may be handled or otherwise disturbed.
4. If a kit fox den is discovered, all construction activity within a 150 feet radius of the den shall be halted and the Engineer shall be contacted immediately. Work may not continue until the Engineer provides written authorization.
5. All food-related trash shall be disposed of in closed garbage containers provided by the Contractor and the containers shall be emptied daily.
6. Pets are prohibited on work site.

**Protection Measures**

Within the Project limits, implement the following protection measures:

1. Avoidance and Minimization Measures enumerated in the PLACs apply to this project. No work shall occur between February 15th and September 1<sup>st</sup> near the North and South Branches of the Tule River.
2. Excavation Inspections: At the end of each working day, the Contractor shall take measures to prevent the entrapment of kit foxes in all excavated, steep-walled holes or trenches more than or equal to 2 feet deep. Such measures shall include covering excavations with plywood or providing dirt or plank escape ramps from the trenches.
3. Material Inspections: The Contractor shall inspect all pipes and culverts with a diameter greater than or equal to 4 inches before burying, capping, or other use. If a kit fox is discovered during this inspection, the pipe or culvert shall not be disturbed (other than to move it to a safe location if necessary) until after the fox has escaped.

**Monitoring Schedule**

Monitor according to the following schedule:

| Monitoring Type        | Schedule |
|------------------------|----------|
| Excavation Inspections | Daily    |
| Material Inspections   | Daily    |

**MEASUREMENT AND PAYMENT**

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

## 10-1.205 TREATED WOOD WASTE ✓

### GENERAL

#### Summary

This work includes handling, storing, transporting, and disposing of treated wood waste (TWW).

Wood removed from metal beam guard railing and thrie beam barriers are treated with one or more of the following:

1. Creosote
2. Pentachlorophenol
3. Copper azole
4. Copper boron azole
5. Chromated copper arsenate
6. Ammoniacal copper zinc arsenate
7. Copper naphthenate
8. Alkaline copper quaternary

Manage TWW under Title 22 CA Code of Regulations, Division 4.5, Chapter 34.

#### Submittals

For disposal of TWW submit a copy of each completed shipping record and weight receipt to the Engineer within 5 business days of disposal.

### CONSTRUCTION

Provide training to personnel who handle TWW or may come in contact with TWW that includes:

1. All applicable requirements of Title 8 CA Code of Regulations
2. Procedures for identifying and segregating TWW
3. Safe handling practices
4. Requirements of Title 22 CA Code of Regulations, Division 4.5, Chapter 34
5. Proper disposal methods

Store TWW before disposal using any of the following methods:

1. Elevate on blocks above a reasonably foreseeable run-on elevation and protect from precipitation
2. Place in water-resistant containers designed for shipping or solid waste collection
3. Place on a containment surface or pad protected from run-on and precipitation
4. Place in a storage building as defined in Title 22 CA Code of Regulations, Div. 4.5, Chp. 34, Section 67386.6 (a)(2)(c).

Prevent unauthorized access to TWW using a secured enclosure such as a locked chain link fenced area or a lockable shipping container located within the project limits.

Resize and segregate TWW at a location where debris from the operation including sawdust and chips can be contained. Collect and manage the debris as TWW.

Provide water-resistant labels, that comply with Title 22 CA Code of Regulations, Division 4.5, Chapter 34, to clearly mark and identify TWW and accumulation areas. Labels must include:

1. Caltrans, District number, Construction, contract number
2. District office address
3. Engineer's name, address, and telephone number
4. Contractor's contact name and telephone number
5. Date placed in storage

Before transporting TWW, obtain an agreement from the receiving facility that the treated wood waste will be accepted. Protect shipments of treated wood waste from loss and exposure to precipitation. For projects with 10,000 pounds or more of TWW, request a hazardous waste generator identification number from the Engineer at least 5 business days before the first shipment. Each shipment must be accompanied by a shipping record such as a bill of lading or invoice that includes:

1. Caltrans with district number
2. Construction contract number
3. District office address
4. Engineer's name, address, and telephone number
5. Contractor's contact name and telephone number
6. Receiving facility name and address
7. Waste description: treated wood waste (preservative type if known or unknown/mixture)
8. Project location
9. Estimated quantity of shipment by weight or volume
10. Date of transport
11. Date of receipt by the receiving TWW facility
12. Weight of shipment as measured by the receiving TWW facility
13. For projects with 10,000 pounds or more of TWW include the generator identification number

The shipping record must be at least a 4-part carbon or carbonless 8-1/2" x 11" form to allow retention of copies by the Engineer, transporter, and disposal facility.

Dispose of TWW at an approved TWW facility. A list of currently approved TWW facilities may be viewed at:

[http://www.dtsc.ca.gov/HazardousWaste/upload/TWW\\_Confirmed\\_Landfill\\_List.pdf](http://www.dtsc.ca.gov/HazardousWaste/upload/TWW_Confirmed_Landfill_List.pdf)

Dispose of TWW within:

1. 90 days of generation if stored on blocks
2. 180 days of generation if stored on a containment surface or pad.
3. One year of generation if filling a water-resistant container, or 90 days after the container is full, whichever is shorter
4. One year of generation if storing in a storage building as defined in Title 22 CA code of Regulations, Div. 4.5, Chp. 34, Section 67386.6(a)(2)(C)

#### **MEASUREMENT AND PAYMENT**

Full compensation for handling, storing, transporting, and disposing TWW, including personnel training, is included in the contract price paid for the various items of work involved and no additional compensation will be allowed therefor.

## 10-1.21 EXISTING HIGHWAY FACILITIES ✓

The work performed in connection with various existing highway facilities shall conform to the provisions in Section 15, "Existing Highway Facilities," of the Standard Specifications and these special provisions.

Attention is directed to Section 7-1.06, "Safety and Health Provisions," of the Standard Specifications. Work practices and worker health and safety shall conform to the California Division of Occupational Safety and Health Construction Safety Orders Title 8, of the California Code of Regulations including Section 5158, "Other Confined Space Operations."

### EARTH MATERIAL CONTAINING LEAD

#### General

This work includes handling earth material containing lead under the Standard Specifications and these special provisions.

#### Submittals

Submit a lead compliance plan under Section 7-1.07, "Lead Compliance Plan," of the Standard Specifications.

#### Project Conditions

Lead is present in earth material within the project limits at average concentrations below 1,000 mg/kg total lead and below 5 mg/l soluble lead. Earth material within the project limits:

1. Is not a hazardous waste
2. Does not require disposal at a permitted landfill or solid waste disposal facility

Lead is typically found within the top 2 feet of material in unpaved areas of the highway. Reuse all excavated earth material within the project limits.

Lead has been detected in earth material in unpaved areas of the highway. Levels of lead found within the project limits range from less than 5.0 to 120.0 mg/kg total lead with an average concentration of 25.14 mg/kg total lead as analyzed by EPA Test Method 6010 or EPA Test Method 7000 series and based upon a 95% Upper Confidence Limit. Levels of lead found within the project limits have a predicted average soluble concentration of 2.1 mg/l as analyzed by the California Waste Extraction Test and based upon a 95% Upper Confidence Limit.

#### Construction

Handle earth material containing lead under all applicable laws, rules, and regulations, including those of the following agencies:

1. Cal/OSHA
2. CA Regional Water Quality Control Board, Region 5 – Central Valley
3. CA Department of Toxic Substances Control

If earth material is disposed of:

1. Dispose of under Section 7-1.13, "Disposal of Material Outside the Highway Right of Way, " of the Standard Specifications
2. Disclose the lead concentration of the earth material to the receiving property owner when obtaining authorization for disposal on the property
3. Obtain the receiving property owner's acknowledgment of lead concentration disclosure in the written authorization for disposal
4. You are responsible for any additional sampling and analysis required by the receiving property owner

If you choose to dispose of earth material at a commercial landfill:

1. Transport it to a Class III or Class II landfill appropriately permitted to receive the material
2. You are responsible for identifying the appropriately permitted landfill to receive the earth material and for all associated trucking and disposal costs including any additional sampling and analysis required by the receiving landfill.

### **Measurement and Payment**

Full compensation for handling earth material containing lead is included in the contract lump sum price paid for lead compliance plan, and no additional compensation will be allowed therefor.

#### **REMOVE METAL BEAM GUARD RAILING**

Existing metal beam guard railing, where shown on the plans to be removed, shall be removed and disposed of.

Existing concrete anchors or steel foundation tubes shall be completely removed and disposed of. Full compensation for removing concrete anchors shall be considered as included in the contract price paid per linear foot for remove metal beam guard railing and no separate payment will be made therefor.

Full compensation for removing cable anchor assemblies, terminal anchor assemblies or steel foundation tubes shall be considered as included in the contract price paid per linear foot for remove metal beam guard railing and no separate payment will be made therefor.

#### **REMOVE PAVEMENT MARKER**

Existing pavement markers, including underlying adhesive, when no longer required for traffic lane delineation as determined by the Engineer, shall be removed and disposed of.

Full compensation for removing and disposing of pavement markers and underlying adhesive shall be considered as included in the contract price paid per ton for hot mix asphalt and no separate payment will be made therefor.

#### **RESIDUE CONTAINING HIGH LEAD CONCENTRATION PAINTS**

Residue from grinding existing pavement, including any bituminous or polymer seals, is a non-hazardous waste containing lead in average concentrations less than 1000 mg/kg total lead and 5 mg/L soluble lead. This residue does not contain heavy metals in concentrations that exceed thresholds established by the Health and Safety Code and 22 CA Code of Regs and is not regulated under the Federal Resource Conservation and Recovery Act (RCRA), 42 USC § 6901 et seq.

Submit a lead compliance plan under Section 7-1.07, "Lead Compliance Plan," of the Standard Specifications.

#### **REMOVE PORTLAND CEMENT CONCRETE PAVEMENT**

Removing portland cement concrete pavement shall conform to the provisions in Section 15-3, "Removing Concrete," of the Standard Specifications.

Where no joint exists in the pavement on the line at which concrete is to be removed, a straight, neat cut with a power driven saw shall be made along the line to a full depth before removing the concrete.

The quantities of portland cement concrete pavement removed will be measured and paid for by the cubic yard.

Full compensation for removing bituminous or other overlying material and sawing joints at removal lines, as required, shall be considered as included in the contract price paid per cubic yard for remove concrete pavement and no additional compensation will be allowed therefor.

#### **COLD PLANE ASPHALT CONCRETE PAVEMENT**

##### **GENERAL**

##### **Summary**

This work includes cold planing existing asphalt concrete pavement.

##### **Sequencing and Scheduling**

Schedule cold planing activities to ensure hot mix asphalt (HMA) is placed over cold planed area during the same work shift before opening to traffic. If you cannot place HMA over the entire cold planed area before opening it to traffic:

1. Construct a temporary HMA taper to the level of the existing pavement.
2. Place HMA during the next lane or shoulder closure for that area.
3. Submit a corrective action plan that shows that you are able to cold plane and place HMA in the same work shift. Do not perform cold planing work until the Engineer approves the corrective action plan.

## **MATERIALS**

HMA for temporary tapers must be of the same quality as the HMA used elsewhere on the project or comply with "Minor Hot Mix Asphalt" of these special provisions.

## **CONSTRUCTION**

### **General**

Perform planing of asphalt concrete pavement without the use of a heating device to soften the pavement.

### **Cold Planing Equipment**

Cold planing machine must be:

1. Equipped with a cutter head width that matches the planing width. If the only available cutter head width is wider than the cold plane area shown, submit to the Engineer a request for using a wider cutter head. Do not cold plane until the Engineer approves your request.
2. Equipped with automatic controls to control the longitudinal grade and transverse slope of the cutter head and:
  - 2.1. If a ski device is used, it must be at least 30 feet long, rigid, and 1 piece unit. The entire length must be used in activating the sensor.
  - 2.2. If referencing from existing pavement, the cold planing machine must be controlled by a self-contained grade reference system. The system must be used at or near the centerline of the roadway. On the adjacent pass with the cold planing machine, a joint matching shoe may be used.
3. Equipped to effectively control dust generated by the planing operation.
4. Operated so that no fumes or smoke is produced.

Replace broken, missing, or worn machine teeth.

### **Grade Control and Surface Smoothness**

Furnish, install, and maintain grade and transverse slope references.

The depth, length, width, and shape of the cut must be as shown or as ordered. The final cut must result in a neat and uniform surface. Do not damage remaining surface.

The completed surface of the planed asphalt concrete pavement must not vary more than 0.02 foot when measured with a 12-foot straightedge parallel with the centerline. The transverse slope of the planed surface must not vary more than 0.03 foot from the straightedge when placed at right angles to the centerline.

A drop-off of more than 0.15 foot is not allowed between adjacent lanes open to public traffic.

### **Temporary HMA Tapers**

If a drop-off between the existing pavement and the planed area at transverse joints cannot be avoided before opening to traffic, construct a temporary HMA taper. HMA for temporary taper must be:

1. Placed to the level of the existing pavement and tapered on a slope of 30:1 (Horizontal: Vertical) or flatter to the level of the planed area
2. Compacted by any method that will produce a smooth riding surface
3. Completely removed before placing the permanent surfacing. The removed material must be disposed of outside the highway right of way in conformance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

### **Disposal of Planed Material**

Remove cold planed material concurrent with planing activities, within 50 feet of the planer or as ordered.

Dispose of planed material under Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

**MEASUREMENT AND PAYMENT**

Cold plane asphalt concrete pavement is measured by the square yard.

The contract price paid per square yard for cold plane asphalt concrete pavement includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in cold planing asphalt concrete surfacing and disposing of planed material, including constructing, maintaining, removing temporary HMA tapers if applicable, as specified in the Standard Specifications and these special provisions and as directed by the Engineer.

Full compensation for removal of thermoplastic traffic stripe, painted traffic stripe, and pavement marking in areas of cold plane asphalt concrete is included in the contract price paid for cold plane asphalt concrete and no separate payment will be made therefor.

**BRIDGE REMOVAL (PORTION)**

Removing bridges or portions of bridges shall conform to the provisions in Section 15-4, "Bridge Removal," of the Standard Specifications and these special provisions.

Bridge removal (portion), Location A consists of, in general, removing portion of edge of existing concrete deck and existing concrete barriers as shown on the plans for the following bridge:

NORTH BRANCH TULE RIVER BRIDGE (WIDEN)  
(Bridge No. 46-0059L)

Bridge removal (portion), Location B consists of, in general, removing portion of edge of existing concrete deck and existing barriers as shown on the plans for the following bridge:

SOUTH BRANCH TULE RIVER BRIDGE (WIDEN)  
(Bridge No. 46-0056L)

Bridge removal (portion), Location C consists of, in general, removing portion of edge of existing concrete deck, concrete curb, and existing concrete barriers as shown on the plans for the following bridge:

TULE RIVER OVERFLOW NO.1 (WIDEN)  
(Bridge No. 46-0057L)

Bridge removal (portion), Location D consists of, in general, removing portion of edge of existing concrete deck, concrete curb, and existing concrete barriers as shown on the plans for the following bridge:

TULE RIVER OVERFLOW NO.2 (WIDEN)  
(Bridge No. 46-0058L)

Removed materials that are not to be salvaged or used in the reconstruction shall become the property of the Contractor and shall be disposed of in conformance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

The Contractor shall submit a complete bridge removal plan to the Engineer for each bridge listed above, detailing procedures, sequences, and all features required to perform the removal in a safe and controlled manner.

The bridge removal plan shall include, but not be limited to, the following:

- A. The removal sequence, including staging of removal operations.
- B. Equipment locations on the structure during removal operations.
- C. Temporary support or temporary bracing.
- D. Details, locations, and types of protective covers to be used.
- E. Measures to assure that people, property, utilities, and improvements will not be endangered.

When protective covers are required for removal of portions of a bridge or culvert or when superstructure removal work on bridges or culverts is involved, the Contractor shall submit working drawings with design calculations to the Engineer for the proposed bridge removal plan, and the bridge removal plan shall be prepared and signed by an engineer who is registered as a Civil Engineer in the State of California. The design calculations shall be adequate to demonstrate the stability of the structure during all stages of the removal operations. Calculations shall be provided for each stage of bridge removal and shall include dead and live load values assumed in the design of protective covers.

Temporary bracing, and protective covers, as required, shall be designed and constructed in conformance with the provisions in Section 51-1.06, "Falsework," of the Standard Specifications and these special provisions.

The assumed horizontal load to be resisted by the temporary support shoring and temporary bracing, for removal operations only, shall be the sum of the actual horizontal loads due to equipment, construction sequence, or other causes and an allowance for wind, but in no case shall the assumed horizontal load to be resisted in any direction be less than 5 percent of the total dead load of the structure to be removed.

The bridge removal plan shall conform to the provisions in Section 5-1.02, "Plans and Working Drawings," of the Standard Specifications. The number of sets of drawings, design calculations, and unless otherwise specified in the following table, the time for reviewing bridge removal plans shall be the same as specified for falsework working drawings in Section 51-1.06A, "Falsework Design and Drawings," of the Standard Specifications.

For bridge removal work that requires the Contractor's registered engineer to prepare and sign the bridge removal plan, the Contractor's registered engineer shall be present at all times when bridge removal operations are in progress. The Contractor's registered engineer shall inspect the bridge removal operation and report in writing on a daily basis the progress of the operation and the status of the remaining structure. A copy of the daily report shall be available at the site of the work at all times. Should an unplanned event occur or the bridge operation deviate from the approved bridge removal plan, the Contractor's registered engineer shall submit immediately to the Engineer for approval the procedure of operation proposed to correct or remedy the occurrence.

#### **PREPARE CONCRETE BRIDGE DECK SURFACE**

This work includes abrasive blast cleaning the concrete deck surface with steel shot and blowing the deck surface clean.

##### **Materials**

Steel shot must comply with SSPC-AB3. Recycled steel shot must comply with SSPC-AB2.

##### **Construction**

Abrasive blast clean the deck surface with steel shot. Remove all laitance, containments, and foreign material. Sweep the deck surface. Blow the deck surface clean using high-pressure air.

The deck must be dry when abrasive blast cleaning is performed.

Laitance, surface contaminants, chip or slurry seal contrast treatments, and foreign material must be removed from the concrete deck surface.

If the deck surface becomes contaminated before placing the overlay, abrasive blast clean the contaminated area and sweep the deck clean.

Residue from abrasive blasting must be removed by a vacuum attachment operating concurrently with blasting equipment when abrasive blasting within 10 feet of public traffic.

Dispose of removed materials under Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

##### **Measurement and Payment**

Prepare concrete bridge deck surface will be measured and paid for by the square foot of deck surface prepared.

The contract price paid per square foot for prepare concrete bridge deck surface shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in preparing the concrete bridge deck surface, except removal of slurry or chip seal contrast treatment, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Removal of slurry or chip seal contrast treatment will be paid for as extra work as specified in Section 4-1.03D, "Extra Work," of the Standard Specifications.

**10-1.22 REMOVAL OF ASBESTOS CONTAINING MATERIALS – BRIDGES AND NON-BUILDING STRUCTURES**

Asbestos containing materials (ACM), as defined in section 1529, "Asbestos," of the Construction Safety Orders, Title 8, of the California Code of Regulations [are/suspected] to be present in the structure proposed for demolition or renovation.

In compliance with Standard Specifications Section 14-9.02, the Contractor must notify the San Joaquin Valley Air Quality Management District (AQMD) as required by the National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61, Subpart M, California Health and Safety Code section 39658(b)(1), and the California Air Resources Board regulations. Provide a copy of the notification form and attachments to the Engineer prior to submittal. Notification must take place a minimum of 10 days prior to starting demolition or renovation activities. Contractor must contact the AQMD for confirmation. Notify other local permitting agencies and utility companies prior to demolition or alteration.

Friable ACM is defined under the Asbestos Hazard Emergency Response Act (AHERA) as "any material containing more than 1 percent (%) asbestos by area that hand pressure can crumble, pulverize or reduce to powder when dry". The term non- friable implies that the asbestos fibers are tightly bound into the matrix of the material and should not become an airborne hazard as long as the material remains intact and undamaged, and is not sawed, sanded, drilled or otherwise abraded during removal.

Codes, which govern removal and disposal of materials containing asbestos include, but are not limited to, the following:

1. California Health and Safety Code, Division 20, Chapter 6.5, Hazardous Waste Control.
2. California Code of Regulations, Title 8, General Industry Safety Order 5208 Asbestos.
3. California Code of Regulations, Title 8, Sections 1529 and 341
4. California Code of Regulations, Title 22, Division 4.5
5. Occupational Safety and Health Administration, Part 26 (amended), of Title 29 of the Code of Federal Regulations.
6. Code of Federal Regulations (CFR), Title 40, Part 61, subpart M.

**ASBESTOS SURVEY**

Asbestos was detected at bridges 46-0192, 46-0059L, 46-0058L, 46-0057L, 46-0056L, 46-0059R in Tulare County Hwy 99. Location of asbestos containing materials and presumed asbestos containing materials from survey includes:

| Location | Description                              | Asbestos Concentration | Approx. Amount | Category                  |
|----------|--|------------------------|----------------|---------------------------|
| 46-0192  | Sheet packing used as barrier rail shims | 90%                    | 20 square feet | Non-friable<br>Chrysotile |
| 46-0192  | Bolt thread sealant                      | 3%                     | 5 square feet  | Non-friable<br>Chrysotile |
| 46-0059L | Sheet packing used as barrier rail shims | 90%                    | 50 square feet | Non-friable<br>Chrysotile |
| 46-0059L | Bolt thread sealant                      | 2%                     | 5 square feet  | Non-friable<br>Chrysotile |
| 46-0058L | Sheet packing used as barrier rail shims | 90%                    | 20 square feet | Non-friable<br>Chrysotile |
| 46-0057L | Bolt thread sealant                      | 3%                     | 5 square feet  | Non-friable<br>Chrysotile |
| 46-0056L | Sheet packing used as barrier rail shims | 90%                    | 50 square feet | Non-friable<br>Chrysotile |
| 46-0056L | Bolt thread sealant                      | 5%                     | 5 square feet  | Non-friable<br>Chrysotile |

All other suspected structural members have tested negative for asbestos-containing material. Portions of the survey report are included in the "Information Handout." The complete report entitled "Asbestos and Lead Containing Paint Survey Report State Route 99 Post Mile 19.8 to 25.0 Widening Project, Tulare County, California" is available for inspection at the Department of Transportation, Construction Office, located at 2015 E. Shields Avenue, Ste. 100, Fresno, CA 93726.

## **ASBESTOS COMPLIANCE PLAN**

Prepare an Asbestos Compliance Plan (ACP) to prevent or minimize exposure to asbestos. Attention is directed to Title 8, California Code of Regulations, Construction Safety Orders, section 5192 (b) and section 1529, "Asbestos", Occupational Safety and Health Guidance Manual published by the National Institute of Occupational Safety and Health (NIOSH) and the USEPA for elements of the ACP. The ACP must contain as a minimum but not be limited to: identification of key personnel for the project, job hazard analysis for work assignments, summary of risk assessment, personal protective equipment, delineation of work zones on-site, decontamination procedures, general safe work practices, security measures, emergency response plans and worker training. The ACP must be authorized in writing by an industrial hygienist certified in the practice of industrial hygiene by the American Board of Industrial Hygiene before submission to the Engineer for review and acceptance. Submit the ACP to the Engineer at least 15 days prior to beginning work in areas containing or suspected to contain asbestos.

## **TRAINING**

Prior to performing work in areas containing or suspected to contain asbestos, personnel who have no prior training or are not current in their training status, including State personnel, must complete a safety training program provided by the Contractor, which meets the requirement of Title 8, California Code of Regulations, Section 1529. Provide a written certification of completion of safety training to the Engineer for trained personnel prior to performing work in areas containing or suspected to contain asbestos.

## **EQUIPMENT AND MEDICAL SURVEILLANCE**

Provide personnel protective equipment, training, and medical surveillance required by the Contractor's Asbestos Compliance Plan to State personnel. The number of State personnel will be 2.

## **REMOVAL**

Prepare a work plan for the removal, storage, transportation and disposal of ACM. Removal and management of ACM will be performed by a contractor registered pursuant to Section 6501.5 of the Labor Code and certified pursuant to Section 7058.6 of the Business and Professions Code. Asbestos removal must conform to Cal/OSHA requirements in Title 8 Sections 1529 and 341. Remove and handle all non-friable ACM to prevent breakage. Non-friable ACM such as asbestos cement pipe must be disposed of to a landfill facility permitted to take ACM. The removal of ACM encased in concrete or other similar structural material is not required prior to demolition, but such material must be adequately wetted whenever exposed during demolition.

Asbestos removal procedures include, but are not limited to:

1. Installing asbestos warning signs at perimeters of abatement work areas.
2. Wetting asbestos materials with sprayers.
3. Containing large volumes of asbestos materials in disposal bins for temporary storage until removed from the site.
4. Providing manifests for the Engineer to sign for disposal of friable ACM waste or a waste shipment record for disposal of non-friable ACM waste.
5. Disposing of asbestos materials at a permitted disposal facility, which accepts such materials.
6. Working in accordance with Federal, State, and Local requirements for asbestos work.

Mark all vehicles used to transport ACM as specified below, or an equivalent warning:

**DANGER  
ASBESTOS  
CANCER AND LUNG DISEASE HAZARD  
AUTHORIZED PERSONNEL ONLY**

**Handling**

Comply with CCR Title 22, Division 4.5, Chapter 12, Article 3 requirements for the packaging and labeling of removed ACM, and place such removed material in approved plastic containers (double ply plastic bags) with caution labels affixed to bags. Such caution labels must have conspicuous, legible lettering, which spells out the following, or equivalent warning:

CONTRACT NO. 06-0E0704  
REVISED PER ADDENDUM NO. 1, DATED NOVEMBER 23, 2011

**DANGER  
CONTAINS ASBESTOS FIBERS  
AVOID CREATING DUST  
CANCER AND LUNG DISEASE HAZARD**

At the option of the Contractor, the removed materials containing asbestos may be placed directly into a covered roll off or drop box, which must have the same caution label, affixed on all sides.

**Transporting**

Non-friable ACM is not hazardous waste and can be transported with a waste shipment record (WSR) or comparable shipping document.

**Disposal**

The Contractor must dispose of friable and non-friable waste containing asbestos at a disposal facility permitted to accept such material and that meets all the requirements specified by Federal, State, and Local regulations. Notify the proper authorities at the disposal site in advance of delivery of asbestos containing material to the disposal site. Conduct additional sampling deemed necessary by the owner of the disposal facility for acceptance of the material at your expense.

**MEASUREMENT AND PAYMENT**

Full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in preparing the Asbestos Compliance Plan, including paying the Certified Industrial Hygienist, and for providing personal protective equipment, training, medical surveillance, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer will be considered as included in the contract prices paid for the various items of work involved and no additional compensation will be allowed therefor.

Full compensation for preparation of a Removal Work Plan and for the removal, transportation, and disposal of asbestos-containing material is included in the contract items of work involved and no additional compensation will be allowed therefor.

CONTRACT NO. 06-0E0704  
REVISED PER ADDENDUM NO. 1, DATED NOVEMBER 23, 2011

**BID ITEM LIST**  
**06-0E0704**

| Item No. | Item Code | Item Description                              | Unit of Measure | Estimated Quantity | Unit Price | Item Total |
|----------|-----------|---|-----------------|--------------------|------------|------------|
| 1        | 070012    | PROGRESS SCHEDULE (CRITICAL PATH METHOD)      | LS              | LUMP SUM           | LUMP SUM   |            |
| 2        | 070018    | TIME-RELATED OVERHEAD                         | WDAY            | 160                |            |            |
| 3        | 074016    | CONSTRUCTION SITE MANAGEMENT                  | LS              | LUMP SUM           | LUMP SUM   |            |
| 4        | 074019    | PREPARE STORM WATER POLLUTION PREVENTION PLAN | LS              | LUMP SUM           | LUMP SUM   |            |
| 5        | 074028    | TEMPORARY FIBER ROLL                          | LF              | 1,200 ✓            |            |            |
| 6        | 074033    | TEMPORARY CONSTRUCTION ENTRANCE               | EA              | 1                  |            |            |
| 7        | 074038    | TEMPORARY DRAINAGE INLET PROTECTION           | EA              | 20                 |            |            |
| 8        | 074041    | STREET SWEEPING                               | LS              | LUMP SUM           | LUMP SUM   |            |
| 9        | 074042    | TEMPORARY CONCRETE WASHOUT (PORTABLE)         | LS              | LUMP SUM           | LUMP SUM   |            |
| 10       | 074057    | STORM WATER ANNUAL REPORT                     | EA              | 2                  |            |            |
| 11       | 120090    | CONSTRUCTION AREA SIGNS                       | LS              | LUMP SUM           | LUMP SUM   |            |
| 12       | 120100    | TRAFFIC CONTROL SYSTEM                        | LS              | LUMP SUM           | LUMP SUM   |            |
| 13       | 120165    | CHANNELIZER (SURFACE MOUNTED)                 | EA              | 42                 |            |            |
| 14       | 128650    | PORTABLE CHANGEABLE MESSAGE SIGN              | LS              | LUMP SUM           | LUMP SUM   |            |
| 15       | 129000    | TEMPORARY RAILING (TYPE K)                    | LF              | 1,360              |            |            |
| 16       | 129100    | TEMPORARY CRASH CUSHION MODULE                | EA              | 84                 |            |            |
| 17       | 150662    | REMOVE METAL BEAM GUARD RAILING               | LF              | 370                |            |            |
| 18       | 151568    | RECONSTRUCT THRIE BEAM BARRIER                | LF              | 27,000             |            |            |
| 19       | 153103    | COLD PLANE ASPHALT CONCRETE PAVEMENT          | SQYD            | 980                |            |            |
| 20       | 153225    | PREPARE CONCRETE BRIDGE DECK SURFACE          | SQFT            | 5,745              |            |            |

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**06-0E0704**

| Item No. | Item Code | Item Description                                    | Unit of Measure | Estimated Quantity | Unit Price | Item Total |
|----------|-----------|---|-----------------|--------------------|------------|------------|
| 41       | 394060    | DATA CORE   | LS              | LUMP SUM           | LUMP SUM   |            |
| 42       | 394074    | PLACE HOT MIX ASPHALT DIKE (TYPE C)                 | LF              | 440                |            |            |
| 43       | 394077    | PLACE HOT MIX ASPHALT DIKE (TYPE F)                 | LF              | 130                |            |            |
| 44       | 397005    | TACK COAT   | TON             | 43                 |            |            |
| 45       | 401108    | REPLACE CONCRETE PAVEMENT (RAPID STRENGTH CONCRETE) | CY              | 820 ✓              |            |            |
| 46       | 415101    | CRACK EXISTING CONCRETE PAVEMENT                    | SQYD            | 71,900             |            |            |
| 47 (F)   | 510053    | STRUCTURAL CONCRETE, BRIDGE                         | CY              | 353                |            |            |
| 48 (F)   | 510526    | MINOR CONCRETE (BACKFILL)                           | CY              | 16                 |            |            |
| 49       | 511106    | DRILL AND BOND DOWEL                                | LF              | 2,798              |            |            |
| 50       | 021668    | CLEAN AND SEAL CONSTRUCTION JOINT                   | LS              | LUMP SUM           | LUMP SUM   |            |
| 51       | 515041    | FURNISH POLYESTER CONCRETE OVERLAY                  | CF              | 1,235              |            |            |
| 52 (F)   | 515042    | PLACE POLYESTER CONCRETE OVERLAY                    | SQFT            | 5,910              |            |            |
| 53       | 515061    | CORE CONCRETE (2")                                  | LF              | 6                  |            |            |
| 54 (F)   | 520102    | BAR REINFORCING STEEL (BRIDGE)                      | LB              | 89,500             |            |            |
| 55       | 832002    | METAL BEAM GUARD RAILING (STEEL POST)               | LF              | 150                |            |            |
| 56       | 839541    | TRANSITION RAILING (TYPE WB)                        | EA              | 4                  |            |            |
| 57       | 839585    | ALTERNATIVE FLARED TERMINAL SYSTEM                  | EA              | 5                  |            |            |
| 58 (F)   | 839726    | CONCRETE BARRIER (TYPE 736A)                        | LF              | 67                 |            |            |
| 59 (F)   | 839727    | CONCRETE BARRIER (TYPE 736 MODIFIED)                | LF              | 1,096              |            |            |
| 60       | 840504    | 4" THERMOPLASTIC TRAFFIC STRIPE                     | LF              | 55,000             |            |            |

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| Item No. | Item Code | Item Description  | Unit of Measure | Estimated Quantity | Unit Price | Item Total |
|----------|-----------|---|-----------------|--------------------|------------|------------|
| 61       | 840525    | 4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)                              | LF              | 27,500             |            |            |
| 62       | 840526    | 4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)                               | LF              | 320                |            |            |
| 63       | 850111    | PAVEMENT MARKER (RETROREFLECTIVE)   | LF              | 1,200              |            |            |
| 64       | 860090    | MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION | LS              | LUMP SUM           | LUMP SUM   |            |
| 65       | 860811    | DETECTOR LOOP   | LS              | LUMP SUM           | LUMP SUM   |            |
| 66       | 861503    | MODIFY LIGHTING   | LS              | LUMP SUM           | LUMP SUM   |            |
| 67       | BLANK     |   |                 |                    |            |            |
| 68       | 150846    | REMOVE CONCRETE PAVEMENT  | CY              | 340                |            |            |
| 69       | 999990    | MOBILIZATION  | LS              | LUMP SUM           | LUMP SUM   |            |

**TOTAL BID:**

\$ \_\_\_\_\_