

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

1727 30th Street MS-43

P.O. BOX 168041

SACRAMENTO, CA 95816-8041

FAX (916) 227-6214

www.dot.ca.gov/hq/esc/oe



*Serious Drought.
Help save water!*

April 1, 2016

04-Ala-84-10.8/18.0

04-2A3314

Project ID 0414000038

ACNHSNHP-P084(043)E

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN ALAMEDA COUNTY FROM ROUTE 238 IN FREMONT TO ROUTE 680 IN SUNOL to revise the *Notice to Bidders and Special Provisions* and the *Bid book*.

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, April 13, 2016.

In the Special Provisions, Section 1-1.01, "Bid Items and Application Section," is replaced as attached.

In the Special Provisions, Section 8-1.10A, "Cost Plus Time," is added as attached.

In the Special Provisions, Section 12-4.02A is replaced as attached.

In the Special Provisions, Section 12-4.03 is added as attached.

In the Special Provisions, Section 12-4.04 is replaced as attached.

In the Special Provisions, Section 14-11.07 is replaced as attached.

In the Special Provisions, Section 15-5.10 is added as attached.

In the Special Provisions, Section 15-10 is deleted.

In the *Bid book*, in the "Bid Item List," Items 15 and 16 are revised.

To *Bid book* holders:

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*.

Submit the *Bid book* as described in the *Electronic Bidding Guide* at the Bidders' Exchange website.

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

Inform subcontractors and suppliers as necessary.

Addendum No. 1
Page 2
April 1, 2016

04-Ala-84-10.8/18.0
04-2A3314
Project ID 0414000038
ACNHSNHP-P084(043)E

This addendum, EBS addendum file and attachments are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/04/04-2A3314

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,


BIJAN SARTIPI
District Director

For

Attachments

Add to section 1-1.01:

Bid Items and Applicable Sections

Item code	Item description	Applicable section
029084	MULTILAYER POLYMER OVERLAY SYSTEM	15
394050	RUMBLE STRIP	39
029086	BARRIER MARKER	82
394053	SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)	39

Add to section 8-1.10A:

Damages additional to those specified in section 8-1.10 are \$1,000 per day starting on the 1st day after expiration of the number of working days bid until work requiring lane or shoulder closures on Route 84 is complete.

Add to section 12-4.02A:

For grinding and grooving operations, saw cutting concrete slabs, and installing loop detectors, closure of the adjacent traffic lane is not required if an impact attenuator vehicle is used as a shadow vehicle.

Designated holidays are shown in the following table:

Designated Holidays

Holiday	Date observed
New Year's Day	January 1st
Washington's Birthday	3rd Monday in February
Memorial Day	Last Monday in May
Independence Day	July 4th
Labor Day	1st Monday in September
Veterans Day	November 11th
Thanksgiving Day	4th Thursday in November
Christmas Day	December 25th

If a designated holiday falls on a Sunday, the following Monday is a designated holiday. If November 11th falls on a Saturday, the preceding Friday is a designated holiday.

The special days are: First or second week of October for Boulder Removal (By Caltrans Maintenance).

For a one-way-reversing traffic-control lane closure, traffic may be stopped in 1 direction for periods not to exceed 5 minutes. After each stoppage, all accumulated traffic for that direction must pass through the work zone before another stoppage is made.

The maximum length of a single stationary one-way-reversing traffic-control lane closure is 0.5 miles between flaggers.

The maximum length of the work area inside a lane closure other than a one-way-reversing traffic-control lane closure is 2 miles.

Not more than 1 stationary lane closure will be allowed at one time. Concurrent stationary closures in the same direction of travel must be spaced no closer than 2 miles apart.

Personal vehicles of your employees must not be parked on the traveled way or shoulders, including sections closed to traffic.

For work at Alameda Creek Bridge (PM 13.3) to Niles Canyon Road (PM 13.6), if work vehicles or equipment are parked within 6 feet of a traffic lane, close the shoulder area with fluorescent orange traffic cones or portable delineators. Place the cones or delineators on a taper in advance of the parked vehicles or equipment and along the edge of the traveled way at 25-foot intervals to a point not less than 25 feet past the last vehicle or piece of equipment. Use at least 9 cones or delineators for the taper. Use a W20-1, "Road Work Ahead," W21-5b, "Right/Left Shoulder Closed Ahead," or C24(CA), "Shoulder Work Ahead," sign mounted on a crashworthy, portable sign support with flags. The sign must be 48 by 48 inches and placed as ordered. If a cone or delineator is displaced or overturned, immediately restore the device to its original position or location.

A minimum of 1 paved traffic lane not less than 11 feet wide must be open for use by traffic.

If a connector closure is required within the limits of a freeway lane closure, complete the work on the connector first. Then, complete the work on the freeway traveled way necessary to ensure safe passage of traffic between the connector and open freeway lanes. Complete the remaining work only after reopening the connector.

Add to the RSS for section 12-4.03B:

For each 10-minute interval or fraction thereof past the time specified to open the closure, the Department deducts the amount for liquidated damages per interval shown in the table below. Liquidated damages are limited to 5 percent of the total bid per occurrence. Liquidated damages are not assessed if the Engineer orders the closure to remain in place beyond the scheduled pickup time.

Type of facility	Route	Direction or Segment	Period	Liquidated damages/interval (\$)
Mainline	84	NB/SB	1st half hour	\$1,000/ 10 minutes
			2nd half hour	\$1,000/ 10 minutes
			2nd hour and beyond	\$1,000/ 10 minutes

Add to the RSS for section 12-4.03C:

Submit a contingency plan for each of the following activities:

1. Activity requiring a full roadway closure
2. Cold-planing HMA for depths of 2 inches or greater
3. HMA paving

Discuss the contingency plan with the Engineer at least 5 business days before starting the activity.

Replace "Reserved" in section 12-4.04 with:

Lane Closure Restriction for Designated Holidays and Special Days										
Thu	Fri	Sat	Sun	Mon	Tues	Wed	Thu	Fri	Sat	Sun
x	H xx	xx	xx							
	SD xx									
x	xx	H xx	xx							
		SD xx								
	x	xx	H xx	xx						
			SD xx							
	x	xx	xx	H xx	xxx					
	x	xx	xx	SD xx	xxx					
				x	H xx					
				x	SD xx					
					x	H xx				
						SD xx				
						x	H xx	xx	xx	xx
							SD xx			

Legend:

	Refer to lane requirement charts
x	The full width of the traveled way must be open for use by traffic after 6 AM.
xx	The full width of the traveled way must be open for use by traffic.
xxx	The full width of the traveled way must be open for use by traffic until 10 PM.
H	Designated holiday
SD	Special day

Replace section 14-11.07 with:

14-11.07 REMOVE YELLOW TRAFFIC STRIPE AND PAVEMENT MARKING WITH HAZARDOUS WASTE RESIDUE

14-11.07A General

14-11.07A(1) Summary

Section 14-11.07 includes specifications for removing existing yellow thermoplastic and yellow painted traffic stripe and pavement marking. The residue from the removal of this material is a Department-generated hazardous waste.

Residue from removal of yellow thermoplastic and yellow painted traffic stripe and pavement marking contains lead chromate. The average lead concentration is at least 1,000 mg/kg total lead or 5 mg/l soluble lead. When applied to the roadway, the yellow thermoplastic and yellow painted traffic stripe and pavement marking contained as much as 2.6 percent lead. Residue produced from the removal of this yellow thermoplastic and yellow painted traffic stripe and pavement marking contains heavy metals in concentrations that exceed thresholds established by the Health & Safety Code and 22 CA Code of Regs. For bidding purposes, assume the residue is not regulated under the Federal Resource Conservation and Recovery Act (RCRA), 42 USC § 6901 et seq.

Work associated with disposal of hazardous waste residue regulated under RCRA as determined by test results is change order work.

Yellow thermoplastic and yellow paint may produce toxic fumes when heated.

14-11.07A(2) Submittals

14-11.07A(2)(a) General

Reserved

14-11.07A(2)(b) Lead Compliance Plan

Submit a lead compliance plan under section 7-1.02K(6)(j)(ii).

14-11.07A(2)(c) Work Plan

Submit a work plan for the removal, containment, storage, and disposal of yellow thermoplastic and yellow painted traffic stripe and pavement marking. The work plan must include:

1. Objective of the operation
2. Removal equipment
3. Procedures for removal and collection of yellow thermoplastic and yellow painted traffic stripe and pavement marking residue, including dust
4. Type of hazardous waste storage containers
5. Container storage location and how it will be secured
6. Hazardous waste sampling protocol and QA/QC requirements and procedures
7. Qualifications of sampling personnel
8. Analytical lab that will perform the analyses
9. DTSC registration certificate and CA Highway Patrol (CHP) Biennial Inspection of Terminals (BIT) Program compliance documentation of the hazardous waste hauler that will transport the hazardous waste
10. Disposal site that will accept the hazardous waste residue

The Engineer will review the work plan within 5 business days of receipt.

Do not perform work that generates hazardous waste residue until the work plan has been authorized.

Correct any rejected work plan and resubmit a corrected work plan within 5 business days of notification by the Engineer. A new review period of 5 business days will begin from date of resubmittal.

14-11.07A(2)(d) Analytical Test Results

Submit analytical test results of the residue from removal of yellow thermoplastic and yellow painted traffic stripe and pavement marking, including chain of custody documentation, for review and acceptance before:

1. Requesting the Engineer's signature on the waste profile requested by the disposal facility
2. Requesting the Engineer obtain an US EPA Generator Identification Number for disposal
3. Removing the residue from the site

14-11.07A(2)(e) U.S. Environmental Protection Agency Identification Number Request

Submit a request for the US EPA Generator Identification Number when the Engineer accepts analytical test results documenting that residue from removal of yellow thermoplastic and yellow painted traffic stripe and pavement marking is a hazardous waste.

14-11.07A(2)(f) Disposal Documentation

Submit documentation of proper disposal from the receiving landfill within 5 business days of residue transport from the project.

14-11.07B Materials

Not Used

14-11.07C Construction

Where grinding or other authorized methods are used to remove yellow thermoplastic and yellow painted traffic stripe and pavement marking that will produce a hazardous waste residue, immediately contain and collect the removed residue, including dust. Use a HEPA filter-equipped vacuum attachment operated concurrently with the removal operations or other equally effective approved methods for collection of the residue.

Make necessary arrangements to test the yellow thermoplastic and yellow paint hazardous waste residue as required by the disposal facility and these special provisions. Testing must include:

1. Total lead by US EPA Method 6010B
2. Total chromium by US EPA Method 6010B
3. Soluble lead by California Waste Extraction Test (CA WET)
4. Soluble chromium by CA WET
5. Soluble lead by Toxicity Characteristic Leaching Procedure (TCLP)
6. Soluble chromium by TCLP

From the first 220 gal of hazardous waste or portion thereof if less than 220 gal of hazardous waste are produced, a minimum of 4 randomly selected samples must be taken and analyzed individually. Samples must not be composited. From each additional 880 gal of hazardous waste or portion thereof if less than 880 gal are produced, a minimum of 1 additional random sample must be taken and analyzed. Use chain of custody procedures consistent with chapter 9 of US EPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846) while transporting samples from the project to the laboratory. Each sample must be homogenized before analysis by the laboratory performing the analyses. A sample aliquot sufficient to cover the amount necessary for the total and the soluble analyses must then be taken. This aliquot must be homogenized a 2nd time and the total and soluble analyses run on this aliquot. The homogenization process must not include grinding of the samples. Submit the name and location of the disposal facility that will be accepting the hazardous waste and the analytical laboratory along with the testing requirements not less than 5 business days before the start of removal of yellow thermoplastic and yellow painted traffic stripe and pavement marking. The analytical laboratory must be certified by the State Water Resources Control Board (SWRCB) Environmental Laboratory Accreditation Program (ELAP) for all analyses to be performed.

After the Engineer accepts the analytical test results, dispose of yellow thermoplastic and yellow paint hazardous waste residue at a Class 1 disposal facility located in California under the requirements of the disposal facility operator within 30 days after accumulating 220 pounds of residue and dust.

If less than 220 pounds of hazardous waste residue and dust is generated in total, dispose of it within 90 days after the start of accumulation of the residue and dust.

The Engineer will sign all manifests as the generator within 2 business days of receiving and accepting the analytical test results and receiving your request for the US EPA Generator Identification Number. Use a transporter with a current DTSC registration certificate and that is in compliance with the CHP BIT Program when transporting hazardous waste.

14-11.07D. Payment

Payment for a lead compliance plan is not included in the payment for environmental stewardship work.

If analytical test results demonstrate that the residue is a non-hazardous waste and the Engineer agrees, dispose of the residue at an appropriately permitted CA Class II or CA Class III facility. The Department does not adjust payment for this disposal.

Replace section 15-5.10 with:

15-5.10 MULTILAYER POLYMER OVERLAY

15-5.10A General

15-5.10A(1) Summary

Section 15-5.10 includes specifications for constructing multilayer polymer overlay systems. A multilayer polymer overlay system consists of 2 layers of polymer resin binder combined with a blend of specially selected aggregate broadcast onto a spread resin binder.

A technical representative from the material manufacturer must be present during the overlay application.

15-5.10A(2) Definitions

Not Used

15-5.10A(3) Submittals

Submit a work plan for overlay placement and include:

1. Schedule of overlay work and testing for each bridge
2. Placement methods, including:
 - 2.1. The manufacturer's application instructions
 - 2.2. Description of equipment for applying polymer resin
 - 2.3. Description of equipment for measuring, mixing, placing, and finishing the multilayer polymer overlay
 - 2.4. Method for isolating expansion joints
3. Method for storage and handling of polymer resin and multilayer polymer overlay components
4. Method for disposal of excess polymer resin, multilayer polymer overlay components and containers
5. Curing time for multilayer polymer overlay

With each shipment of polymer resin binder, submit a material safety data sheets for each component.

Submit a public safety plan and include:

1. Public notification letter describing the work to be performed with overlay work locations, dates and times. Include a list of addresses of delivery and posting of the letter.
2. Airborne emissions monitoring plan. A CIH certified in comprehensive practice by the American Board of Industrial Hygiene must prepare and execute the plan. The plan must have at least 4 monitoring points including the mixing point, application point, and point of nearest public contact.
3. Action plan for protecting the public if airborne emissions levels exceed permissible levels.
4. Copy of the CIH's certification.

Submit results from production airborne emissions monitoring as an informational submittal after completing treatment activities.

15-5.10A(4) Quality Control and Assurance

Complete a trial overlay before starting production overlay activities.

The trial overlay must:

1. Be at least 12 feet wide by 6 feet long and the same thickness as the project overlay
2. Be constructed on a prepared concrete base
3. Be placed within the project limits at an authorized location
4. Be constructed using the same equipment as the production work
5. Replicate field conditions for the production work
6. Be used to determine the initial polymer resin binder set time
7. Demonstrate suitability of the proposed means and methods

The Engineer determines acceptability of the trial overlay.

Dispose of the trial overlay and concrete base after acceptance.

15-5.10B Materials

Multilayer polymer overlays must be one of the systems shown in the following table:

System	Address	Telephone no.
POLY-CARB Mark 163 Flexogrid Overlay System POLY-CARB Mark 154 Safe-T-Grid	DOW CHEMICAL 33095 BAINBRIDGE ROAD SOLON, OH 44139	(866) 765-9227
Low Modulus Polysulfide Epoxy Overlay (T-48)	TRANSCO INDUSTRIES, INC. 20 JONES STREET NEW ROCHELLE NY 10801	(800) 321-7870
T-18 Bridge Overlay System Lightweight Waterproof MMA Polymer Concrete	TRANSCO INDUSTRIES, INC. 20 JONES STREET NEW ROCHELLE NY 10801	(800) 321-7870
E-Bond 526	E-BOND EPOXIES INC. 501N.E. 33 rd Street Fort Lauderdale, FL 33307	(877) 265-0011
Unitex Pro-Poxy™ Type III DOT Epoxy Polymer Overlay System	DAYTON SUPERIOR 3101 GARDNER AVENUE KANSAS CITY MO 64120	(800) 821-5846
Kwik Bond PPC-MLS Polyester Multilayer System	KWIK BOND POLYMERS 923 TEAL DRIVE BENICIA CA 94510	(866) 434-1772
Sikadur 22, Lo Mod Epoxy Broadcast Overlay System	SIKA CORPORATION 17 ELTON COURT PLEASANT HILL CA 94523	(925) 383-9336
BASF Degadeck Bridge Deck Overlay System	BASF 1532-A COUNTRY CLUB DRIVE MILL CREEK WA 98012	(425) 478-4279

15-5.10C Construction

Deliver the public notification letter to residences and businesses within 100 feet of overlay work and to local fire and police officials at least 7 days before starting overlay activities. Post the letter at the job site.

If magnesium phosphate concrete is placed before the deck overlay, the magnesium phosphate concrete must be placed at least 72 hours before placing the polymer binder coat.

If modified high alumina based concrete is placed before the deck overlay, the polymer binder coat must not be placed on the existing concrete deck surface until at least 30 minutes after final set.

Expansion joints and deck drains must be adequately isolated prior to overlaying.

Equipment must be fitted with suitable traps, filters, drip pans, or other devices necessary to prevent oil or other deleterious material from being deposited on the deck.

Monitor airborne emissions during overlay activities.

Prepare the concrete deck surface before placing the overlay.

Place and cure multilayer polymer overlay under the manufacturer's instructions.

The overlay thickness must be at least 1/4 and not more than 3/8 inches.

Surface texture of the overlay must be uniform and must have a coefficient of friction of not less than 0.35. The Engineer tests the coefficient of friction of the overlay surfaces under California Test 342. Portions of completed overlay surfaces having a coefficient of friction less than 0.35 must be removed under the manufacturer's instructions and have the overlay reapplied.

Smoothness of the finished surface will be tested with a straightedge. The surface must not vary more than 0.02 foot in any direction from the lower edge of a 12 ± 0.2-foot-long straightedge placed in any direction. Any surface that fails must be removed under the manufacturer instructions and have the overlay reapplied.

Do not allow traffic on the overlay until after the minimum time recommended by the manufacturer.

15-5.10D Payment

Not Used

**BID ITEM LIST
04-2A3314**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	070030	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
2	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	
3	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
4	128652	PORTABLE CHANGEABLE MESSAGE SIGN (LS)	LS	LUMP SUM	LUMP SUM	
5	130200	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	LUMP SUM	LUMP SUM	
6	130730	STREET SWEEPING	LS	LUMP SUM	LUMP SUM	
7	141103	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	73,300		
8	150714	REMOVE THERMOPLASTIC TRAFFIC STRIPE	LF	68,200		
9	150722	REMOVE PAVEMENT MARKER	EA	2,200		
10	151224	REMOVE DELINEATOR	EA	320		
11	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	14,000		
12	029084	MULTILAYER POLYMER OVERLAY SYSTEM	SQYD	3,750		
13	374002	ASPHALTIC EMULSION (FOG SEAL COAT)	TON	3.7		
14	390132	HOT MIX ASPHALT (TYPE A)	TON	1,880		
15	394050	RUMBLE STRIP	STA	110		
16	394053	SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)	STA	160		
17	397005	TACK COAT	TON	6.4		
18	420102	GROOVE EXISTING CONCRETE PAVEMENT	SQYD	9,440		
19	820107	DELINEATOR (CLASS 1)	EA	840		
20	029086	BARRIER MARKER	EA	50		

CONTRACT NO. 04-2A3314
REPLACED PER ADDENDUM NO. 1 DATED APRIL 1, 2016