

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 20, 2016

04-Ala-84-R18.0/R22.9

04-1J2504

Project ID 0414000159

ACNHP-P084(045)E

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN ALAMEDA COUNTY NEAR LIVERMORE FROM ROUTE 680/84 SEPARATION TO 0.1 MILE SOUTH OF RUBY HILL DRIVE, to revise the project plans, 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 27, 2016.

Project plan sheets 2, 16, 20, 21, 22 and 23 are replaced and attached for substitution for the like-numbered sheets.

Project plan sheet 29A is added and attached for addition to the project plans.

In the *Notice to Bidders and Special Provisions*, in the "STANDARD PLANS LIST," the following Standard Plan is added as follows:

"RSP T-10."

In the *Special Provisions*, Section 1-1.01 is added as attached.

In the *Special Provisions*, Section 86-2.09E is replaced as attached.

In the *Special Provisions*, Section 86-5.01A(1) is replaced as attached.

In the *Bid* book, in the "Bid Item List," Items 32, 33, 34 and 35 are added.

In the *Bid* book, in the "Bid Item List," Items 18 and 31 are deleted.

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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.

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/04/04-1J2504

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

Attachments

1 GENERAL

Add to section 1-1.01:

Bid Items and Applicable Sections

Item code	Item description	Applicable section
031136	CENTERLINE RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)	39

CONTRACT NO. 04-1J2504
ADDED PER ADDENDUM NO. 1 DATED APRIL 20, 2016

Replace the 1st paragraph of section 86-2.09E with:

Splices must be insulated by "Method B."

Delete the 6th and 7th paragraphs of section 86-2.09E.

Replace 8th & 9th paragraphs of section 86-2.09E with:

Splices must be insulated by "Method B."

Use Method B as follows:

1. Cover the splice area completely with an electrical insulating coating and allow it to dry.
2. Apply 3 layers of half-lapped 80 mils PVC tape.
3. Apply 2 layers of 120 mils Butyl rubber stretchable tape with liner.
4. Apply 3 layers of half-lapped 6 mils PVC pressure-sensitive adhesive tape.
5. Cover the entire splice with an electrical insulating coating and allow it to dry.

Add to section 86-5.01A(1):

Loop wire must be Type 2.

Loop detector lead-in cable must be Type B.

Slots must be filled with elastomeric sealant or hot-melt rubberized asphalt sealant.

You may use a Type E loop where a Type B loop is shown.

For Type E detector loops, sides of the slot must be vertical and the minimum radius of the slot entering and leaving the circular part of the loop must be 1-1/2 inches. Slot width must be a maximum of 5/8 inch. Loop wire for circular loops must be Type 2. Slots of circular loops must be filled with elastomeric sealant or hot-melt rubberized asphalt sealant.

The depth of the loop sealant above the top of the uppermost loop wire in the sawed slots must be 2 inches, minimum.

Fill slots in concrete with elastomeric, hot-melt rubberized asphalt or epoxy sealant for loop detectors.

Install 2 inductive loop conductor except for Type E loops detectors use Type 2.

Install conductor continuous without splices except at the pull box.

Center the detectors in the traffic lanes.

Do not splice the detector conductor.

Mark the location of the inductive loop detectors so the distance between the side of the loop and a lead-in sawcut from an adjacent detector is at least 2 feet. The distance between lead-in sawcuts must be at least 6 inches.

Sawcut the slots. The slot bottoms must be smooth with no sharp edges. For Type E detector loops, saw the slots so the sides are vertical.

Do not allow residue from slot-cutting activities to flow across shoulders or lanes occupied by traffic. Remove the residue before it flows off the pavement surface and dispose of it.

Wash the slots clean using water and blow dry with compressed air to remove all moisture and debris.

Identify the start of the conductor.

Waterproof the ends of Type 2 loop conductor before installing it in the conduit to prevent moisture from entering the cable.

Install the loop conductor in the slots and lead-in sawcut using a 3/16- to 1/4-inch-thick wood paddle. Hold the conductors in place at the bottom of the slot with wood paddles during placement of the sealant.

Wind adjacent loops on the same sensor unit channel in opposite directions.

Twist the conductors for each loop into a pair consisting of a minimum of 2 turns per foot before placing them in the lead-in sawcut and the conduit leading to the pull box. Do not install more than 2 twisted pairs of conductors per lead-in sawcut.

Provide 5 feet of slack in the pull box.

Test each loop for continuity, circuit resistance, and insulation resistance before filling the slots with sealant.

Remove excess sealant from the adjacent road surface before it sets. Do not use solvents to remove the excess.

Identify the loop conductor pair in the pull box with the start with the letter *S* and the end with the letter *F*. Band conductors in pairs by lane in the pull box adjacent to the loops and in the cabinet. Identify each pair with detector designation and loop number.

All splices must be soldered using the hot iron, pouring, or dipping method. Do not perform open-flame soldering.

For Detector lead-in cable:

1. Waterproof the ends of the lead-in cable before installing it in the conduit to prevent moisture from entering the cable.
2. Splice loop conductors for each direction of travel for the same phase, terminating in the same pull box, to a separate lead-in cable which must run from the pull box adjacent to the loop detector to a sensor unit mounted in the controller cabinet. Install lead-in cable continuous without splices except at the pull box.
3. Verify in the presence of the Engineer that the loops are operational before making the final splices between loop conductors and the lead-in cable.
4. Identify and tag each lead-in cable with detector designation at the cabinet and pull box adjacent to the loops.

**BID ITEM LIST
04-1J2504**

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	130100	JOB SITE MANAGEMENT	LS	LUMP SUM	LUMP SUM	
6	130200	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	LUMP SUM	LUMP SUM	
7	130620	TEMPORARY DRAINAGE INLET PROTECTION	EA	27		
8	130640	TEMPORARY FIBER ROLL	LF	600		
9	130730	STREET SWEEPING	LS	LUMP SUM	LUMP SUM	
10	148005	NOISE MONITORING	LS	LUMP SUM	LUMP SUM	
11	150771	REMOVE ASPHALT CONCRETE DIKE	LF	17,100		
12	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	181,000		
13	160102	CLEARING AND GRUBBING (LS)	LS	LUMP SUM	LUMP SUM	
14	190185	SHOULDER BACKING	TON	46		
15	390030	INTELLIGENT COMPACTION	LS	LUMP SUM	LUMP SUM	
16	390132	HOT MIX ASPHALT (TYPE A)	TON	710		
17	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	12,000		
18	BLANK					
19	394060	DATA CORE	LS	LUMP SUM	LUMP SUM	
20	394074	PLACE HOT MIX ASPHALT DIKE (TYPE C)	LF	220		

**BID ITEM LIST
04-1J2504**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	394076	PLACE HOT MIX ASPHALT DIKE (TYPE E)	LF	11,400		
22	394077	PLACE HOT MIX ASPHALT DIKE (TYPE F)	LF	5,490		
23	397005	TACK COAT	TON	76		
24	840516	THERMOPLASTIC PAVEMENT MARKING (ENHANCED WET NIGHT VISIBILITY)	SQFT	1,130		
25	846001	4" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)	LF	119,000		
26	846002	4" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 6-1)	LF	340		
27	846005	4" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 36-12)	LF	15,000		
28	846009	8" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)	LF	5,270		
29	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	5,110		
30	860090	MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS	LUMP SUM	LUMP SUM	
31	BLANK					
32	394053	SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)	STA	230		
33	031136	CENTERLINE RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)	STA	300		
34	860807	INDUCTIVE LOOP DETECTOR (LS)	LS	LUMP SUM	LUMP SUM	
35	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

TOTAL BID:

\$
