

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

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*Serious Drought.  
Help save water!*

August 12, 2016

05-SCr-17-1.0/1.4  
05-0Q6004  
Project ID 0500020290  
ACNHP-P017(112)E

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN SANTA CRUZ COUNTY NEAR SANTA CRUZ FROM 0.2 MILE NORTH OF PASATIEMPO OVERCROSSING TO BEULAH PARK UNDERCROSSING 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, August 31, 2016.

In the *Notice to Bidders*, the eleventh paragraph is replaced as follows:

"Complete the work, excluding vegetation control (Type 2) and permanent erosion control establishment work, within 440 working days.

Complete the work, including vegetation control (Type 2) and permanent erosion control establishment work, within 690 working days

Complete the vegetation control (Type 2) and permanent erosion control establishment work within 250 working days."

In the *Special Provisions*, Section 2-1.06B is replaced as attached.

In the *Special Provisions*, Section 8-1.10A is added as attached.

In the *Special Provisions*, Section 9-1.11C is added as attached.

In the *Special Provisions*, Sections 12-3.18A(2), 12-3.18B, and 12-3.18D are deleted.

In the *Special Provisions*, Section 12-3.20 is replaced as attached.

In the *Special Provisions*, Section 39, is replaced as attached.

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In the *Bid* book, in the "Bid Item List," Items 86 and 87 are replaced.

In the *Bid* book, the EBS file is replaced.

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](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/05/05-0Q6004](http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/05/05-0Q6004)**

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,



SHARRI BENDER EHLERT  
District Director  
District 6 Central Region

Attachments

## 2 BIDDING

**Add between the 1st and 2nd paragraphs of section 2-1.06B:**

The Department makes the following supplemental project information available:

### Supplemental Project Information

Means	Description
Included in the <i>Information Handout</i>	<ol style="list-style-type: none"><li>1. Revised District Preliminary Geotechnical Report, dated 10/17/2013</li><li>2. Drainage Memorandum, Dated 5/1/2015</li><li>3. Rocks placed in a natural form, referee sample</li><li>4. Representative Site Photos<ol style="list-style-type: none"><li>a. Existing concrete ditch</li><li>b. Acacia on slope</li></ol></li><li>5. Temporary Alternative Crash Cushion System</li><li>6. Scotts Valley Water District, Portable and Recycled Bulk Water Permit</li></ol>
Available as specified in the <i>Standard Specifications</i>	<p>Alignment (XLM) Original ground data (dgn) Cross Sections (pdf)</p>

**Replace the 1st sentence in the 3rd paragraph of section 8-1.10A with:**

Liquidated damages for all work except vegetation control (type 2) and permanent erosion control establishment are shown in the following table:

**Replace the 4th paragraph of section 8-1.10A with:**

If all work except vegetation control (type 2) and permanent erosion control establishment is complete and the total number of working days have expired, liquidated damages are \$950 per day.

**Replace the 1st sentence in the 1st paragraph of section 9-1.11B with:**

The TRO quantity does not include the number of working days to complete (1) vegetation control (Type 2) or (2) permanent erosion control establishment work.

CONTRACT NO. 05-0Q6004  
ADDED PER ADDENDUM NO. 1 DATED AUGUST 12, 2016

Replace "Reserved" in section 12-3.20 of the RSS with:

### **12-3.20 TEMPORARY ALTERNATIVE CRASH CUSHION SYSTEM**

#### **12-3.20A General**

##### **12-3.20A(1) Summary**

Section 12-3.20 includes specifications for installing and maintaining temporary crash cushion system. Temporary crash cushion system must be installed under the manufacturer's installation instructions and these specifications.

##### **12-3.20A(2) Submittals**

Submit a certificate of compliance and a copy of the manufacturer's installation instructions for the temporary crash cushion system.

#### **12-3.20B Materials**

The allowable alternatives for temporary crash cushion system must consist of one of the following or a Department approved equal.

1. ACZ-350 System – The ACZ-350 System must be a TL-3 from the manufacturer Energy Absorption Systems, Incorporated, 35 East Wacker Drive. Chicago, IL 60601 Tel: (312) 467-6750. FAX: (312) 467-9625. The ACZ-350 System can be obtained from the distributor, National Trench Safety, 45945 Warm Spring Blvd, Fremont, CA 94539, 510-490-2140 or from the distributor, National Trench Safety, 7849 Stockton Blvd, Sacramento, CA 95823, 916-387-6300.
2. ABSORB 350 System – ABSORB 350 System must be TL-3 from manufacturer Barrier Systems, Incorporated, 180 River Road, Rio Vista, CA 94571, Tel: (888) 800-3691. You can also obtain from the distributor, Statewide Safety & Signs, 1101 North 5<sup>th</sup> Street, San Jose, CA 95112, 408-993-9770. Attachment of the ABSORB 350 System to Type K temporary railing must include nine (9) Energy Absorbing Elements.
3. Sentry Longitudinal Energy Dissipater (SLED) – Sled must be a TL-3 from manufacturer, Traffix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673, Tel: (949) 361-5663, FAX (949) 361-9205.

Be prepared to furnish additional temporary alternative crash cushion system on short notice due to changing traffic conditions or damage caused by traffic or other conditions. Make arrangements with a supplier who is able, on a daily basis, to furnish the items on short notice.

#### **12-3.20C Maintenance**

Repair or remove and replace damaged alternative temporary crash cushion system due to your operations at your expense, as determined by the Engineer.

Repairing or removing and replacing the alternative temporary crash cushion system damaged by public traffic will be paid for as extra work at force account as provided in Section 4-1.05 of the Standard Specifications. Remove and replace alternative temporary crash cushion system damaged beyond repair by public traffic immediately, when ordered by the Engineer.

#### **12-3.20D Payment**

If the Engineer orders a lateral move of the alternative temporary crash cushion system and the repositioning is not shown on the plans, moving the alternative temporary crash cushion system will be paid for as extra work as provided in Section 4-1.05 of the Standard Specifications and the alternative temporary crash cushion system will not be counted for payment in the new position.

## 39 HOT MIX ASPHALT

**Add between "single" and "test" in the 8th paragraph of section 39-1.01D(9)(a) of the RSS for section 39: aggregate and HMA mixture**

**Replace the paragraphs in section 39-2.01C(2) of the RSS for section 39 with:**

The JMF must be based on the Superpave HMA mix design system as described in the MS-2 Asphalt Mix Design Methods by the Asphalt Institute.

For a Type A HMA mixture using RAP substitution greater than 15 percent of the aggregate blend, the asphalt binder grade from the HMA mixture must comply with the binder grade specified in section 39-2.02C. The HMA mixture binder grade must not be stiffer than the PG binder grade specified and must be determined by blending charts for high, intermediate, and low critical temperatures. Original binder requirements, ductility requirements, and footnote d in the table in the 1st paragraph in section 92-1.02B do not apply in the determination of the HMA mixture binder grade using blending charts.

**Add to section 39-2.01C(3) of the RSS for section 39:**

For RAP substitution greater than 15 percent of the aggregate blend, submit blending calculation sheets and blending charts for high, intermediate, and low critical temperatures. The blending calculation sheets and blending charts must be based on the MS-2 Asphalt Mix Design Methods by the Asphalt Institute. You may use critical temperatures of virgin binder or the maximum theoretical critical temperature of the PG grade of the virgin binder. Critical temperatures must be in whole degree. The calculation sheets must be sealed and signed by an engineer who is registered as a civil engineer in the State or by the AMRL-AASHTO-accredited laboratory manager responsible for the calculations and blending charts.

**Add between the heading and the 1st paragraph of section 39-2.01D(2)(c) of the RSS for section 39:**

### **39-2.01D(2)(c)(i) General**

Section 39-2.01D(2)(c) applies to Type A HMA mixtures using RAP substitution greater than 15 percent of the aggregate blend.

### **39-2.01D(2)(c)(ii) Reclaimed Asphalt Pavement Stockpiles**

**Add to section 39-2.01D(2)(c) of the RSS for section 39:**

### **39-2.01D(2)(c)(iii) Virgin and Recovered Reclaimed Asphalt Pavement Binder**

Perform solvent extraction of RAP binder under AASHTO T 164, Method A, and recovery under AASHTO R 59 or ASTM D1856. Test the quality characteristics of the recovered RAP binder under the test methods and frequencies shown in the following table:

Quality characteristic	Test method	Minimum testing frequency
Critical temperatures of RAP binder	AASHTO T 315 and AASHTO T 313	1 per project if RAP is not augmented or 1 per 500 tons of augmented RAP

If you use critical temperature of virgin binder in blending charts, test the quality characteristics of the virgin binder under the test methods and frequencies shown in the following table:

Quality characteristic	Test method	Minimum testing frequency
Critical temperatures of virgin binder	AASHTO T 315 and AASHTO T 313	1 per 5 paving days or 1 per project, whichever is greater

Determine the blended binder grade using blending charts under the MS-2 Asphalt Mix Design Methods by the Asphalt Institute each time the critical temperatures are determined.

**Replace "If RAP is used" in item 2 in the list of the paragraph of section 39-2.01D(5) of the RSS for section 39 with:**

For RAP substitution greater than 15 percent of the aggregate blend

**Replace the row for moisture susceptibility, dry strength, in the table in item 3 in the list of the paragraph of section 39-2.01D(5) of the RSS for section 39 with:**

Moisture susceptibility (psi, dry strength)	AASHTO T 283	100-300
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**Add to the list of the paragraph of section 39-2.01D(5) of the RSS for section 39 with:**

- For RAP substitution greater than 15 percent of the aggregate blend, the asphalt binder grade must comply with the specified binder grade. A tolerance of +2 degrees C may be applied to the critical high and low temperatures of the blended binder. Original binder requirements, ductility requirements, and footnote d in the table in the 1st paragraph in section 92-1.02B do not apply in the determination of the PG binder grade using blending charts.

**Replace the row for moisture susceptibility, dry strength, in the 1st paragraph of section 39-2.02B of the RSS for section 39 with:**

Moisture susceptibility, dry strength (psi)	AASHTO T 283	100-300
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**Replace the 3rd and 4th paragraphs in section 39-2.02B of the RSS for section 39 with:**

For a Type A HMA mixture using RAP substitution greater than 15 percent of the aggregate blend, the mix design blended binder grade must comply with the specified binder grade. The mix design blended binder grade must be determined using blending charts as described in the MS-2 Asphalt Mix Design Methods by the Asphalt Institute. Original binder requirements, ductility requirements, and footnote d in the table in the 1st paragraph in section 92-1.02B do not apply in the determination of the HMA mixture binder grade using blending charts.

**Replace "Reserved" in section 39-2.02C of the RSS for section 39 with:**

The grade of asphalt binder for Type A HMA must be PG 64-10.

For Type A HMA using RAP substitution of greater than 15 percent of the aggregate blend, the HMA mixture binder grade must comply with the PG binder grade specified above.

For Type A HMA using RAP substitution of 15 percent or less of the aggregate blend, the grade of the virgin binder must comply with the PG binder grade specified above.

**Replace the 2nd sentence of 2nd paragraph in section 39-2.02F of the RSS for section 39 with:**

For RAP substitution of 15 percent or less, RAP must be within  $\pm 3$  of RAP percentage shown in your Contractor Job Mix Formula Proposal form without exceeding 15 percent. For RAP substitution of greater than 15 percent, RAP must be within  $\pm 3$  of RAP percentage shown in your Contractor Job Mix Formula Proposal form without exceeding 25 percent.

**Add to section 39-4.02C of the RSS for section 39:**

For HMA-O, the grade of asphalt binder must be PG 58-34 PM (polar modified).

**BID ITEM LIST  
05-0Q6004**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
81	031392	18" HIGH DENSITY POLYETHYLENE PIPE DOWNDRAIN	LF	550		
82	031393	ROCK ANCHORAGE SYSTEM	EA	55		
83	720121	ROCK SLOPE PROTECTION (1/2 T, METHOD A) (CY)	CY	1,190		
84	721028	ROCK SLOPE PROTECTION (NO. 2, METHOD B) (CY)	CY	910		
85	729011	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	SQYD	4,470		
86 (F)	750001	MISCELLANEOUS IRON AND STEEL	LB	7,760		
87	031394	ANCHORED DOUBLE TWISTED WIRE MESH SYSTEM	SQYD	9,860		
88	031395	ROCK DOWELS	EA	1,130		
89	031396	WROUGHT IRON FENCE (8' HIGH)	LF	80		
90	820107	DELINEATOR (CLASS 1)	EA	10		
91	846000	4" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 18-12)	LF	2,500		
92	846001	4" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)	LF	5,000		
93	850101	PAVEMENT MARKER (NON-REFLECTIVE)	EA	210		
94	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	110		
95	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

**TOTAL BID:**

**\$**

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