

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

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*Serious Drought.  
Help save water!*

October 14, 2016

12-Ora-5-6.8, 22.8

12-0H5304

Project ID 1213000147

ACIM-005-2(984)E

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN ORANGE COUNTY IN SAN JUAN CAPISTRANO AND IRVINE AT NORTHBOUND CAMINO LAS RAMBLAS LOOP ON RAMP AND NEAR BEE CANYON CREEK 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 Thursday, October 20, 2016.

Project plan sheets 2, 5 and 23 are replaced and attached for substitution for the like-numbered sheets.

In the *Special Provisions*, Section 83-1.02C, is replaced as attached.

In the *Bid book*, in the "Bid Item List," Items 24 and 25 are replaced.

In the *Bid book*, in the "Bid Item List," Items 54 is deleted.

In the *Bid book*, in the "Bid Item List," Items 55, 56 and 57 are added.

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.

Addendum No. 1  
Page 2  
October 14, 2016

12-Ora-5-6.8, 22.8  
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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/12/12-0H5304](http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/12/12-0H5304)

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,

RYAN CHAMBERLAIN  
District Director

TN  
AM



for R. Chamberlain

Attachments

**Replace section 83-1.02C(3) with:**

**83-1.02C(3) Alternative Flared Terminal System**

Alternative flared terminal system must be furnished and installed as shown on the plans and under these special provisions.

Obtain the Department-authorized manufacturer's drawing and the manufacturer's check list for the assembly and installation of the alternative flared terminal system from the manufacturer's representative or distributor. Notify the Engineer of the type of alternative flared terminal system to be installed at each location before starting installation activities. Complete, sign, and date the check list for each installed terminal system and submit a copy of the completed and signed check list for each installed location. The Engineer signs and dates the completed check lists, verifying the terminal system at each location was assembled and installed under the manufacturer's instructions and as described.

The allowable alternatives for a flared terminal system must consist of one of the following or a Department-authorized equal.

1. TYPE FLEAT-SP-MGS for steel or FLEAT-W-MGS for wood TERMINAL SYSTEM - Type FLEAT-MGS terminal system must be a Flared Energy Absorbing Terminal 350, system length 37'-6", manufactured by Road Systems, Inc., located in Big Spring, Texas, and must include items detailed for Type FLEAT-MGS terminal system shown on the plans. The Flared Energy Absorbing Terminal 350 can be obtained from the distributor, Universal Industrial Sales, P.O. Box 699, Pleasant Grove, UT 84062, telephone (801) 785-0505 or from the distributor, Gregory Industries, Inc., 4100 13<sup>th</sup> Street, S.W., Canton, OH 44708, telephone (330) 477-4800.
2. TYPE X-LITE - Type X-Lite terminal system must be a 31" X-Lite Guard Rail End Terminal as manufactured by Barrier Systems, Inc., located in Vacaville, CA, and must include items detailed for Type 31" X-Lite terminal system shown on the plans. The 31" X-Lite Guard Rail End Terminal can be obtained from the distributor, Statewide Safety and Signs, Inc., 130 Grobric Court, Fairfield, CA 94533, telephone (800) 770-2644.
3. TYPE 31" X-TENSION - Type 31" X-Tension terminal system must be a 31" X-Tension Guard Rail End Terminal as manufactured by Barrier Systems, Inc., located in Vacaville, CA, and must include items detailed for Type 31" X-Tension terminal system shown on the plans. The 31" X-Tension Guard Rail End Terminal can be obtained from the distributor, Statewide Safety and Signs, Inc., 130 Grobric Court, Fairfield, CA 94533, telephone (800) 770-2644.

Submit a certificate of compliance for terminal systems.

Terminal systems must be installed under the manufacturer's installation instructions and these specifications. Each terminal system installed must be identified by painting the type of terminal system in neat black letters and figures 2 inches high on the backside of the rail element between system posts numbers 4 and 5. Paint must be metallic acrylic resin type spray paint. Before applying terminal system identification, the surface to receive terminal system identification must be removed of all dirt, grease, oil, salt, or other contaminants by washing the surface with detergent or other suitable cleaner. Rinse thoroughly with fresh water and allow to fully dry.

For Type 31" X-Lite terminal system, two 13'-6 1/2" rail elements must be connected between Post 7 and the Midwest Guardrail System. All crimped posts and line posts must be W6 x 8.5 or W6 x 9 steel posts. All posts, must be, at the Contractor's option, either driven or placed in drilled holes. Space around the crimped posts, Post 2 with attached soil plate and lines posts must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer must be moistened and thoroughly compacted. All blocks must be wood or plastic.

For Type FLEAT-SP-MGS terminal system, install the soil tube with soil plate attached at Post 1, hinged breakaway post at Post 2, and 6'-0" W6 x 9 steel posts at Posts 3 through 7. Use a W6 x 15 steel post at Post 1. The soil tube with soil plate must be, at the Contractor's option, driven with or without pilot holes, or placed in drilled holes. Space around the steel foundation tubes must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer must be moistened and thoroughly compacted.

For Type FLEAT-W-MGS terminal system, install the soil tubes with soil plate attached at Posts 1 and 2, breakaway cable terminal posts at Posts 1 and 2, and controlled release terminal posts at Posts 3 through 6. The soil tubes with soil plates must be, at the Contractor's option, driven with or without pilot holes, or placed in drilled holes. Space around the steel foundation tubes must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer must be moistened and thoroughly compacted. The breakaway cable terminal posts must be inserted into the steel foundation tubes by hand and must not be driven.

For Type 31" X-Tension terminal system, the steel post and soil anchor must be, at the Contractor's option, driven with or without pilot holes, or placed in drilled holes. Space around the steel post and soil anchor must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer must be moistened and thoroughly compacted. The wood terminal posts must be inserted into the drilled holes by hand and backfilled in the same manner as the steel post and soil anchor. Wood terminal posts must not be driven. All blocks must be wood or plastic.

For Type 31" X-Tension terminal system, the steel bottom post and I-beam post must be placed in drilled hole. The soil anchor and steel line posts must be, at the Contractor's option, either driven or placed in drilled holes. Space around the steel bottom post, steel line posts and soil anchor must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer must be moistened and thoroughly compacted. All blocks must be plastic.

After installing the terminal system, dispose of surplus excavated material in a uniform manner along the adjacent roadway where designated by the Engineer.

**BID ITEM LIST  
12-0H5304**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	150742	REMOVE ROADSIDE SIGN	EA	19		
22	150771	REMOVE ASPHALT CONCRETE DIKE	LF	210		
23	157560	BRIDGE REMOVAL (PORTION)	LS	LUMP SUM	LUMP SUM	
24	390132	HOT MIX ASPHALT (TYPE A)	TON	40		
25	394074	PLACE HOT MIX ASPHALT DIKE (TYPE C)	LF	150		
26	480300	TEMPORARY SUPPORT	LS	LUMP SUM	LUMP SUM	
27(F)	510053	STRUCTURAL CONCRETE, BRIDGE	CY	21		
28(F)	510054	STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	CY	107		
29	510087	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	CY	88		
30	511106	DRILL AND BOND DOWEL	LF	187		
31	519088	JOINT SEAL (MR 1")	LF	56		
32(F)	520102	BAR REINFORCING STEEL (BRIDGE)	LB	40,100		
33(F)	520120	HEADED BAR REINFORCEMENT	EA	74		
34	560245	FURNISH LAMINATED PANEL SIGN (1"-TYPE B)	SQFT	56		
35	560248	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	SQFT	140		
36	566011	ROADSIDE SIGN - ONE POST	EA	17		
37	566012	ROADSIDE SIGN - TWO POST	EA	2		
38	031761	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"- UNFRAMED) FOR RETROREFLECTIVE SHEETING (TYPE XI)	SQFT	140		
39	031762	RETROREFLECTIVE SHEETING (TYPE XI)	SQFT	180		
40	820107	DELINEATOR (CLASS 1)	EA	52		

**BID ITEM LIST  
12-0H5304**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	820134	OBJECT MARKER (TYPE P)	EA	4		
42	832007	MIDWEST GUARDRAIL SYSTEM (WOOD POST)	LF	160		
43	839543	TRANSITION RAILING (TYPE WB-31)	EA	3		
44	839585	ALTERNATIVE FLARED TERMINAL SYSTEM	EA	3		
45(F)	839717	CONCRETE BARRIER (TYPE 732 MODIFIED)	LF	117		
46(F)	839720	CONCRETE BARRIER (TYPE 732)	LF	326		
47	840656	PAINT TRAFFIC STRIPE (2-COAT)	LF	2,260		
48	840666	PAINT PAVEMENT MARKING (2-COAT)	SQFT	700		
49	846001	4" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)	LF	4,330		
50	846004	4" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 17-7)	LF	2,840		
51	846009	8" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)	LF	1,110		
52	846012	THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING (ENHANCED WET NIGHT VISIBILITY)	SQFT	920		
53	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	330		
54	BLANK					
55	190101	ROADWAY EXCAVATION	CY	110		
56	394073	PLACE HOT MIXED ASPHALT DIKE (TYPE A)	LF	200		
57	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

**TOTAL BID:**

**\$**