

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
OFFICE ENGINEER, MS 43
1727 30TH STREET
P.O. BOX 168041
SACRAMENTO, CA 95816-8041
FAX (916) 227-6214
TTY 711



*Flex your power!
Be energy efficient!*

November 19, 2010

05-Mon-101-R146.8/159.7
05-0161E4
Project ID 0500000004
NH-Q101(187)E

Addendum No. 2

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN MONTEREY COUNTY IN AND NEAR PRUNEDALE AT VARIOUS LOCATIONS FROM 0.3 KM NORTH OF LITTLE BEAR CREEK UNDERCROSSING TO 0.5 KM NORTH OF ECHO VALLEY ROAD.

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 Tuesday, November 30, 2010.

This addendum is being issued to revise the Project Plans, the Notice to Bidders and Special Provisions, the Bid book, and to provide additional Information Handout.

Project Plan Sheets 2, 3, 4, 5, 601, 602, 605, 668, 670, 671, 756, 759, 1011, 1338, and 1390 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 222A and 243A are added. Copies of the added sheets are attached for addition to the project plans.

In the Special Provisions, Section 5-1.11, "SUPPLEMENTAL PROJECT INFORMATION," in the "Supplemental Project Information" Table, Item 35 is added as follows:

"35. Bridge As-Built drawings for Cross Road Bridge, Br. No. 44C0135."

In the Special Provisions, Section 10-1.37, "EXISTING HIGHWAY FACILITIES," subsection "EXISTING PAINT SYSTEMS" is added before subsection "EARTH MATERIAL CONTAINING LEAD," as attached.

In the Special Provisions, Section 10-1.37, "EXISTING HIGHWAY FACILITIES," subsection "BRIDGE REMOVAL (PORTION)" is replaced with subsection "BRIDGE REMOVAL," as attached.

05-Mon-101-R146.8/159.7
 05-0161E4
 Project ID 0500000004
 NH-Q101(187)E

In the Special Provisions, Section 10-1.41, "EARTH RETAINING STRUCTURES," the table in the third paragraph is revised as follows:

Proprietary Earth Retaining System	Address and Phone Number	Web Site
Reinforced Earth – 1.52 m square	The Reinforced Earth Company 1660 Hotel Circle North, Suite 304 San Diego, CA 92108 (619) 688-2400	www.reinforcedearth.com
Retained Earth	The Reinforced Earth Company 1660 Hotel Circle North, Suite 304 San Diego, CA 92108 (619) 688-2400	www.reinforcedearth.com
MSE Plus - 1.52 m square	SSL 4740 Scotts Valley Drive, Suite E 209 Scotts Valley, CA 95066 (831) 430-9300	www.mseplus.com
MSE Plus – 1.52 by 1.83 m	SSL 4740 Scotts Valley Drive, Suite E 209 Scotts Valley, CA 95066 (831) 430-9300	www.mseplus.com

In the Special Provisions, Section 10-1.82, "PILING," subsection "GENERAL," sub-subsections "Dynamic Monitoring" and "Wave Equation" are deleted.

In the Special Provisions, Section 10-1.82, "PILING," subsection "MEASUREMENT AND PAYMENT (PILING)," the seventh paragraph is deleted.

In the Bid book, in the "Bid Item List," Items 58, 143, 149 and 261 are revised, Item 318 is deleted, and Items 319 and 320 are added as attached.

To Bid book holders:

Replace pages 5, 10, 16 and 18 of the "Bid Item List" in the Bid book with the attached revised pages 5, 10, 16 and 18 of the Bid Item List. The revised Bid Item List is to be used in the bid.

Attached is a copy of the additional Information Handout.

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.

Addendum No. 2
Page 3
November 19, 2010

05-Mon-101-R146.8/159.7
05-0161E4
Project ID 0500000004
NH-Q101(187)E

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

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/05/05-0161E4

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,



REBECCA D. HARNAGEL
Chief, Office of Plans, Specifications & Estimates
Office Engineer
Division of Engineering Services

Attachments

EXISTING PAINT SYSTEMS

The existing paint systems on Bridge No. 44C0135 consists of red lead. Any work that disturbs the existing paint system will expose workers to health hazards and will (1) produce debris containing heavy metal in amounts that exceed the thresholds established in Titles 8 and 22 of the California Code of Regulations or (2) produce toxic fumes when heated. All debris produced when the existing paint system is disturbed shall be contained.

Debris Containment and Collection Program

Prior to starting work, the Contractor shall submit a debris containment and collection program to the Engineer in conformance with the provisions in Section 5-1.02, "Plans and Working Drawings," of the Standard Specifications, for debris produced when the existing paint system is disturbed. The program shall identify materials, equipment, and methods to be used when the existing paint system is disturbed and shall include working drawings of containment systems, loads applied to the bridge by containment structures, and provisions for ventilation and air movement for visibility and worker safety.

If the measures being taken by the Contractor are inadequate to provide for the containment and collection of debris produced when the existing paint system is disturbed, the Engineer will direct the Contractor to revise the operations and the debris containment and collection program. The directions will be in writing and will specify the items of work for which the Contractor's debris containment and collection program is inadequate. No further work shall be performed on the items until the debris containment and collection program is adequate and, if required, a revised program has been approved for the containment and collection of debris produced when the existing paint system is disturbed.

The Engineer will notify the Contractor of the approval or rejection of the submitted or revised debris containment and collection program within 2 weeks of submittal of the Contractor's program or revised program.

The State will not be liable to the Contractor for failure to approve all or any portion of an originally submitted or revised debris containment and collection program, nor for delays to the work due to the Contractor's failure to submit an acceptable program.

Full compensation for the debris containment and collection program shall be considered as included in the contract price paid for the item of work causing the existing paint system to be disturbed, and no additional compensation will be allowed therefor.

Safety and Health 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 Code of Regulations, Title 8, Construction Safety Orders, including Section 1532.1, "Lead."

The Contractor shall furnish the Engineer a written Code of Safe Practices and shall implement an Injury and Illness Prevention Program and a Hazard Communication Program in conformance with the requirements of Construction Safety Orders, Sections 1509 and 1510.

Prior to starting work that disturbs the existing paint system, and when revisions to the program are required by Section 1532.1, "Lead," the Contractor shall submit the compliance programs required in subsection (e)(2), "Compliance Program," of Section 1532.1, "Lead," of the Construction Safety Orders to the Engineer in conformance with the provisions in Section 5-1.02, "Plans and Working Drawings," of the Standard Specifications. The compliance programs shall include the data specified in subsections (e)(2)(B) and (e)(2)(C) of Section 1532.1, "Lead." Approval of the compliance programs by the Engineer will not be required. The compliance programs shall be reviewed and signed by a Certified Industrial Hygienist (CIH) who is certified in comprehensive practice by the American Board of Industrial Hygiene (ABIH). Copies of all air monitoring or jobsite inspection reports made by or under the direction of the CIH in conformance with Section 1532.1, "Lead," shall be furnished to the Engineer within 10 days after the date of monitoring or inspection.

Full compensation for furnishing the Engineer with the submittals and for implementing the programs required by this safety and health section shall be considered as included in the contract price paid for the item of work causing the existing paint system to be disturbed, and no additional compensation will be allowed therefor.

Debris Handling

Debris produced when the existing paint system is disturbed shall not be temporarily stored on the ground. Debris accumulated inside the containment system shall be removed before the end of each work shift. Debris shall be stored in approved, leakproof containers and shall be handled in such a manner that no spillage will occur.

Disposal of debris produced when the existing paint system is disturbed shall be performed in conformance with all applicable Federal, State, and local hazardous waste laws. Laws that govern this work include:

- A. Health and Safety Code, Division 20, Chapter 6.5 (California Hazardous Waste Control Act).
- B. Title 22; California Code of Regulations, Division 4.5, (Environmental Health Standards for the Management of Hazardous Waste).
- C. Title 8, California Code of Regulations.

Except as otherwise provided herein, debris produced when the existing paint system is disturbed shall be disposed of by the Contractor at an approved Class 1 disposal facility in conformance with the requirements of the disposal facility operator. The debris shall be hauled by a transporter currently registered with the California Department of Toxic Substances Control using correct manifesting procedures and vehicles displaying current certification of compliance. The Contractor shall make all arrangements with the operator of the disposal facility and perform any testing of the debris required by the operator.

At the option of the Contractor, the debris produced when the existing paint system is disturbed may be disposed of by the Contractor at a facility equipped to recycle the debris, subject to the following requirements:

- A. Copper slag abrasive blended by the supplier with a calcium silicate compound shall be used for blast cleaning.
- B. The debris produced when the existing paint system is disturbed shall be tested by the Contractor to confirm that the solubility of the heavy metals is below regulatory limits and that the debris may be transported to the recycling facility as a nonhazardous waste.
- C. The Contractor shall make all arrangements with the operator of the recycling facility and perform any testing of the debris produced when the existing paint system is disturbed that is required by the operator.

Full compensation for debris handling and disposal shall be considered as included in the contract price paid for the item of work causing the existing paint system to be disturbed, and no additional compensation will be allowed therefor.

BRIDGE REMOVAL

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.

Remove the following bridge structure as shown on the plans:

Cross Road Bridge
(Bridge No. 44C0135)

The existing single span bridge is approximately 35 feet in length and 25 feet in width consisting of a steel grid filled with concrete supported steel girders, concrete abutments, and steel piles.

Remove portions of the following bridge structure as shown on the plans, including portions of slope paving:

San Miguel Canyon Road Overcrossing
(Bridge No. 44-0271)

The existing water supply system, sprinkler control system and electrical conduit system shall remain functional during the bridge removal and throughout the bridge widening. The existing water supply system, sprinkler control system and electrical conduit system shall be removed only after the new water supply system, sprinkler control system and electrical conduit system are in place and functioning.

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 shoring or temporary bracing.
- D. Locations where work is to be performed over traffic, or utilities.
- E. Details, locations, and types of protective covers to be used.
- F. Measures to assure that people, property, utilities, and improvements will not be endangered.
- G. Details and measures for preventing material, equipment, and debris from falling onto public traffic.
- H. Details and measures to keep the water supply system, sprinkler control system and electrical conduit system functional during the bridge removal and through out the bridge widening process until the new water supply line, sprinkler control system and electrical conduit system are in place and functioning to the Engineer's satisfaction.

When protective covers are required for removal of portions of a bridge, or when superstructure removal work on bridges 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. At a minimum, a stage will be considered to be removal of the deck, the soffit, or the girders, in any span; or walls, bent caps, or columns at support locations.

Temporary support shoring, 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 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.

The following additional requirements apply to the removal of bridges or portions of bridges whenever the removal work is to be performed over public traffic:

- A. A protective cover shall be constructed before beginning bridge removal work. The protective cover shall be supported by shoring, falsework, or members of the existing structure. The Contractor shall be responsible for designing and constructing safe and adequate protective covers, shoring, and falsework with sufficient strength and rigidity to support the entire load to be imposed.
- B. The construction and removal of the protective cover, and the installation and removal of temporary railings shall conform to the provisions in Maintaining Traffic, "Temporary Railings" of these special provisions.
- C. Bridge removal methods shall be described in the working drawings, supported by calculations with sufficient details to substantiate live loads used in the protective cover design. Dead and live load values assumed for designing the protective cover shall be shown on the working drawings.
- D. The protective cover shall prevent any materials, equipment, or debris from falling onto public traffic. The protective cover shall have a minimum strength equivalent to that provided by good, sound Douglas fir planking having a nominal thickness of 50 mm. Additional layers of material shall be furnished as necessary to prevent fine materials or debris from sifting down upon the traveled way and shoulders.
- E. During the removal of bridge segments, and when portions of the bridge, such as deck slabs or box girder slabs, comply with the requirements for the protective cover, a separate protective cover need not be constructed.
- F. The protective cover shall extend at least 3 m beyond the outside face of the bridge railing, except that, at locations where the bridge railing is to be removed and new girders are not constructed, the protective cover shall extend from the face of the exterior girder or at least 0.6-m inside of the bridge railing to be removed, whichever is less, to at least 1.2 m beyond the outside face of the bridge railing.
- G. The protective cover shall provide the openings specified under "Maintaining Traffic" of these special provisions, except that when no openings are specified for bridge removal, a vertical opening of 4.6 m and a horizontal opening of 9.8 m shall be provided for the passage of public traffic.
- H. Falsework or supports for protective covers shall not extend below the vertical clearance level nor to the ground line at any location within the roadbed.
- I. The construction of the protective cover as specified herein shall not relieve the Contractor of responsibilities specified in Section 7-1.12A, "Indemnification," and Section 7-1.12B, "Insurance," of the Standard Specifications.
- J. Before removal of the protective cover, the Contractor shall clean the protective cover of all debris and fine material.

For bridge removal 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.

Full compensation for maintaining the existing water supply system, sprinkler control system and electrical conduit system functional during the bridge removal and through out the bridge widening process shall be considered as included in lump sum paid for bridge removal (portion) and no additional payment will be made therefor.

BID ITEM LIST
05-0161E4

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	150662	REMOVE METAL BEAM GUARD RAILING	M	340		
42	019693	REMOVE DOUBLE THRIE BEAM BARRIER	M	800		
43	150711	REMOVE PAINTED TRAFFIC STRIPE	M	32 000		
44	150712	REMOVE PAINTED PAVEMENT MARKING	M2	75		
45	150714	REMOVE THERMOPLASTIC TRAFFIC STRIPE	M	17 900		
46	150715	REMOVE THERMOPLASTIC PAVEMENT MARKING	M2	270		
47	150722	REMOVE PAVEMENT MARKER	EA	6370		
48	150742	REMOVE ROADSIDE SIGN	EA	200		
49	150805	REMOVE CULVERT	M	1790		
50	150820	REMOVE INLET	EA	41		
51	150821	REMOVE HEADWALL	EA	12		
52	150826	REMOVE MANHOLE	EA	9		
53	152320	RESET ROADSIDE SIGN	EA	9		
54	152370	RELOCATE MAILBOX	EA	44		
55	152432	ADJUST MANHOLE	EA	6		
56	152469	ADJUST UTILITY COVER TO GRADE	EA	18		
57	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	M2	44 200		
58	019694	REMOVE CONCRETE DRAINAGE STRUCTURE	M3	68		
59	153221	REMOVE CONCRETE BARRIER	M	2980		
60	019695	REMOVE ROCK SLOPE PROTECTION	M3	41		

BID ITEM LIST**05-0161E4**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
141	401000	CONCRETE PAVEMENT	M3	7590		
142	404092	SEAL PAVEMENT JOINT	M	6770		
143	404094	SEAL LONGITUDINAL ISOLATION JOINT	M	330		
144	490511	FURNISH STEEL PILING (HP 250 X 85)	M	274		
145	490512	DRIVE STEEL PILE (HP 250 X 85)	EA	12		
146	042878	STEEL SOLDIER PILE (W 310 X 129)	M	466		
147	042879	STEEL SOLDIER PILE (W 310 X 79)	M	60		
148	019719	400 MM CAST-IN-DRILLED-HOLE CONCRETE PILING (BARRIER)	M	2180		
149	042880	DRILLED HOLE (610 MM)	M	494		
150	490655	400 MM CAST-IN-DRILLED-HOLE CONCRETE PILING	M	785		
151	490656	450 MM CAST-IN-DRILLED-HOLE CONCRETE PILING	M	341		
152	490657	600 MM CAST-IN-DRILLED-HOLE CONCRETE PILING	M	362		
153	490700	FURNISH PILING (CLASS 900) (ALTERNATIVE W)	M	2541		
154	490701	DRIVE PILE (CLASS 900) (ALTERNATIVE W)	EA	214		
155	490772	FURNISH PILING (CLASS 625) (ALTERNATIVE W)	M	4006		
156	490773	DRIVE PILE (CLASS 625) (ALTERNATIVE W)	EA	229		
157	491012	FURNISH PILING (CLASS 400) (ALTERNATIVE W)	M	1162		
158	491013	DRIVE PILE (CLASS 400) (ALTERNATIVE W)	EA	97		
159	499030	FURNISH CAST-IN-STEEL-SHELL CONCRETE PILING (610 MM)	M	252		
160	499031	DRIVE CAST-IN-STEEL-SHELL CONCRETE PILE (610 MM)	EA	14		

BID ITEM LIST
05-0161E4

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
261	802590	1.8 M CHAIN LINK GATE (TYPE CL-1-8)	EA	1		
262	802595	3.0 M CHAIN LINK GATE (TYPE CL-1.8)	EA	96		
263	820107	DELINEATOR (CLASS 1)	EA	420		
264	019725	CONCRETE BARRIER MARKER	EA	220		
265	820130	OBJECT MARKER	EA	36		
266	832002	METAL BEAM GUARD RAILING (STEEL POST)	M	6630		
267	832070	VEGETATION CONTROL (MINOR CONCRETE)	M2	11 200		
268 (F)	042886	CHAIN LINK RAILING (TYPE 7) (BLACK VINYL-COATED)	M	589		
269 (F)	833142	CONCRETE BARRIER (TYPE 26 MODIFIED)	M	590		
270 (F)	833159	CONCRETE BARRIER (TYPE 27A MODIFIED)	M	141		
271 (F)	833187	CONCRETE BARRIER (TYPE 27 MODIFIED)	M	67		
272	019726	DOUBLE METAL BEAM GUARD RAILING (STEEL POST)	M	110		
273	839312	DOUBLE THRIE BEAM BARRIER (STEEL POST)	M	60		
274 (F)	839521	CABLE RAILING	M	725		
275	839541	TRANSITION RAILING (TYPE WB)	EA	22		
276	839581	END ANCHOR ASSEMBLY (TYPE SFT)	EA	19		
277	839584	ALTERNATIVE IN-LINE TERMINAL SYSTEM	EA	8		
278	839585	ALTERNATIVE FLARED TERMINAL SYSTEM	EA	22		
279	839701	CONCRETE BARRIER (TYPE 60)	M	2920		
280	839703	CONCRETE BARRIER (TYPE 60C)	M	1040		

BID ITEM LIST**05-0161E4**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
301	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	11 800		
302	860090	MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS	LUMP SUM	LUMP SUM	
303	860201	SIGNAL AND LIGHTING	LS	LUMP SUM	LUMP SUM	
304	860300	SIGNAL AND LIGHTING (CITY STREET LOCATION 1)	LS	LUMP SUM	LUMP SUM	
305	860302	SIGNAL AND LIGHTING (CITY STREET LOCATION 2)	LS	LUMP SUM	LUMP SUM	
306	860303	SIGNAL AND LIGHTING (CITY STREET LOCATION 3)	LS	LUMP SUM	LUMP SUM	
307	860304	SIGNAL AND LIGHTING (CITY STREET LOCATION 4)	LS	LUMP SUM	LUMP SUM	
308	019727	MODIFY SIGNAL AND LIGHTING (CITY STREET LOCATION 1)	LS	LUMP SUM	LUMP SUM	
309	019728	MODIFY SIGNAL AND LIGHTING (CITY STREET LOCATION 2)	LS	LUMP SUM	LUMP SUM	
310	019729	REMOVE EXISTING ELECTRICAL SYSTEM	LS	LUMP SUM	LUMP SUM	
311	860460	LIGHTING AND SIGN ILLUMINATION	LS	LUMP SUM	LUMP SUM	
312 (F)	860796	SPRINKLER CONTROL CONDUIT (BRIDGE)	M	913		
313	860797	ELECTRIC SERVICE (IRRIGATION)	LS	LUMP SUM	LUMP SUM	
314	860798	BOOSTER PUMP ELECTRICAL SYSTEM	LS	LUMP SUM	LUMP SUM	
315	042887	WELL PUMP ELECTRICAL SYSTEM	LS	LUMP SUM	LUMP SUM	
316	860812	MICROWAVE VEHICLE DETECTION SYSTEM	LS	LUMP SUM	LUMP SUM	
317	860990	CLOSED CIRCUIT TELEVISION SYSTEM	LS	LUMP SUM	LUMP SUM	
318	BLANK					
319	157550	BRIDGE REMOVAL	LS	LUMP SUM	LUMP SUM	
320	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

TOTAL BID:

\$ _____