

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
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Be energy efficient!*

November 3, 2011

10-Sta-99-R0.0/R24.7
10-0M8004
Project ID 1000020344
ACNH-P099(549)E

Addendum No. 2

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN STANISLAUS COUNTY IN AND NEAR TURLOCK, CERES, AND MODESTO FROM MERCED COUNTY LINE TO SAN JOAQUIN COUNTY LINE.

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, November 9, 2011.

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

Project Plan Sheets 22 and 25 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

In the Special Provisions, Section 10-1.24, "LEAN CONCRETE BASE RAPID SETTING," is revised as attached.

In the Bid book, in the "Bid Item List," Items 2, 20, and 30 are revised as attached.

To Bid book holders:

Replace pages 3 and 4 of the "Bid Item List" in the Bid book with the attached revised pages 3 and 4 of the Bid Item List. The revised Bid Item List is to be used in the bid.

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.

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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/10/10-0M8004

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
Interim District Director
District 6 Central Region

Attachments

10-1.24 LEAN CONCRETE BASE RAPID SETTING

GENERAL

Summary

Lean concrete base rapid setting (LCBRS) must comply with Section 28, "Lean Concrete Base," of the Standard Specifications and these special provisions.

Submittals

Mix Design

Determine the mix proportions for LCBRS and submit mix designs.

At least 10 days before use, submit a mix design for LCBRS that includes:

1. Opening age
2. Proposed aggregate gradation
3. Proportions of hydraulic cement and aggregate
4. Types and amounts of chemical admixtures
5. Maximum time allowed between batching and placing
6. Range of ambient temperatures over which the mix design is effective
7. Final set time
8. Test result from CT 548 testing, if required

Submit more than 1 mix design to plan for ambient temperature variations anticipated during LCBRS placement. Each mix design must have a maximum ambient temperature range of 18 °F.

Submit strength development data for each mix design. You may use strength development data from laboratory-prepared samples. The testing ages for strength development data must include 1 hour before opening age, opening age, 1 hour after opening age, 24 hours, and 7 days.

Quality Control

Prepare compressive strength test specimens under California Test 540. Test compressive strength specimens under California Test 521. Perform at least 1 test at opening age for each 130 cubic yards placed. One test is two cylinders.

MATERIALS

Cement

Cement for LCBRS must comply with one of the following:

1. Cement for portland cement concrete specified in Section 90, "Portland Cement Concrete," of the Standard Specifications except Type III cement may be used. If Type III cement is not used, use a nonchloride Type C chemical admixture.
2. A proprietary cementitious material in compliance with the specifications for cement in Section 90, "Portland Cement Concrete," of the Standard Specifications, except:

- 2.1. Cementitious material must meet the definition of hydraulic cement in ASTM C 219, and the following:

Proprietary Cementitious Material

Test Description	Test Method	Requirement
Contraction in Air	California Test 527, w/c ratio = 0.39±0.010	0.053%, max.
Mortar Expansion in Water	ASTM C 1038	0.04%, max.
Soluble Chloride*	California Test 422	0.05%, max.
Soluble Sulfate*	California Test 417	0.30%, max.
Thermal Stability	California Test 553	90%, min.
Compressive Strength @ 3 days	ASTM C 109	2500 psi

*Test is to be done on a cube specimen fabricated in conformance with the requirements in ASTM C 109, cured at least 14 days, and then pulverized so that 100% passes the No. 50 sieve.

- 2.2. Citric acid or borax may be used if requested in writing by the cement manufacturer and a sample is submitted to the Engineer. Chemical admixtures, if used, must be included when testing for requirements listed in the table above.

Aggregates

Aggregate for LCBRS must comply with either of the following:

1. Section 90-2.02, "Aggregates," and Section 90-3, "Aggregate Gradings," of the Standard Specifications
2. Section 28-1.02, "Materials," of the Standard Specifications and the following:
 - 2.1. The fifth paragraph of Section 28-1.02 does not apply
 - 2.2. Use either the 1-1/2 inch maximum or the 1-inch maximum grading
 - 2.3. Perform California Test 548 except part H.

CONSTRUCTION

General

LCBRS must have a compressive strength of 725 psi at opening age. Subsequent paving operations may commence only after opening age of LCBRS.

Placing Concrete

You may use metal or wood side forms. Wood side forms must not be less than 1-1/2 inches thick.

Side forms must remain in place until the LCBRS edge no longer requires the protection of forms.

After you deposit the LCBRS on the subgrade, consolidate it with high-frequency internal vibrators. Consolidate adjacent to forms and across the full placement width. Place LCBRS as nearly as possible to its final position. Do not use vibrators for extensive shifting of LCBRS.

Spread and shape LCBRS with powered finishing machines supplemented by hand finishing.

After you mix and place LCBRS, do not add water to the surface to facilitate finishing. Use surface finishing additives as recommended by the manufacturer of the cement after their use is approved by the Engineer.

Final Finishing

The finished surface of LCBRS must not be above the grade established by the Engineer, or more than 0.05-foot below the grade established by the Engineer.

BID ITEM LIST
10-0M8004

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	070012	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS	LUMP SUM	LUMP SUM	
2	070018	TIME-RELATED OVERHEAD	LS	LUMP SUM	LUMP SUM	
3	074016	CONSTRUCTION SITE MANAGEMENT	LS	LUMP SUM	LUMP SUM	
4	074017	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	LUMP SUM	LUMP SUM	
5	074042	TEMPORARY CONCRETE WASHOUT (PORTABLE)	LS	LUMP SUM	LUMP SUM	
6	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	
7	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
8	120120	TYPE III BARRICADE	EA	6		
9	120165	CHANNELIZER (SURFACE MOUNTED)	EA	180		
10	128650	PORTABLE CHANGEABLE MESSAGE SIGN	LS	LUMP SUM	LUMP SUM	
11	129000	TEMPORARY RAILING (TYPE K)	LF	14,700		
12	129100	TEMPORARY CRASH CUSHION MODULE	EA	260		
13	021833	REMOVE BRIDGE APPROACH GUARD RAILING	LF	440		
14	150662	REMOVE METAL BEAM GUARD RAILING	LF	12,700		
15	021834	REMOVE THREE BEAM BARRIER	LF	300		
16	150714	REMOVE THERMOPLASTIC TRAFFIC STRIPE	LF	29,100		
17	150715	REMOVE THERMOPLASTIC PAVEMENT MARKING	SQFT	300		
18	150722	REMOVE PAVEMENT MARKER	EA	134,000		
19	150771	REMOVE ASPHALT CONCRETE DIKE	LF	87,600		
20	150846	REMOVE CONCRETE PAVEMENT	CY	93,800		

BID ITEM LIST
10-0M8004

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	152430	ADJUST INLET	EA	15		
22	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	207,000		
23	153214	REMOVE CONCRETE CURB	LF	3,000		
24	190101	ROADWAY EXCAVATION	CY	60,100		
25	190110	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
26	198007	IMPORTED MATERIAL (SHOULDER BACKING)	TON	16,500		
27	260201	CLASS 2 AGGREGATE BASE	CY	15,000		
28	021835	LEAN CONCRETE BASE (RAPID SETTING)	CY	30,000		
29	374002	ASPHALTIC EMULSION (FOG SEAL COAT)	TON	27		
30	390131	HOT MIX ASPHALT	TON	191,000		
31	390138	RUBBERIZED HOT MIX ASPHALT (OPEN GRADED)	TON	1,480		
32	390140	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	105,000		
33	391007	PAVING ASPHALT (BINDER, GEOSYNTHETIC PAVEMENT INTERLAYER)	TON	630		
34	393003	GEOSYNTHETIC PAVEMENT INTERLAYER	SQYD	606,000		
35	394044	PLACE ASPHALT CONCRETE DIKE (TYPE C)	LF	3,300		
36	394048	PLACE ASPHALT CONCRETE DIKE (TYPE E)	LF	79,900		
37	394049	PLACE ASPHALT CONCRETE DIKE (TYPE F)	LF	3,910		
38	394050	RUMBLE STRIP	STA	4,510		
39	394060	DATA CORE	LS	LUMP SUM	LUMP SUM	
40	397005	TACK COAT	TON	850		