

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
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*Flex your power!
Be energy efficient!*

October 6, 2010

10-SJ-5-32.6/49.8
10-0V1704
Project ID 1000000766
IM-005-6(332)478E

Addendum No. 2

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN SAN JOAQUIN COUNTY IN AND NEAR STOCKTON FROM HAMMER LANE UNDERCROSSING TO SACRAMENTO 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, October 13, 2010.

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

Project Plan Sheet 17 is revised. A copy of the revised sheet is attached for substitution for the like-numbered sheet.

In the Special Provisions, Section 10-121, "CRACK TREATMENT," is revised as attached.

In the Bid book, in the "Bid Item List," Items 60 and 61 are added and Items 23 and 59 are deleted as attached.

To Bid book holders:

Replace pages 4 and 5 of the "Bid Item List" in the Bid book with the attached revised pages 4, 5 and 5A 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/10/10-0V1704

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,



for SHARLBENDER EHLERT
Interim District Director
District 6 Central Region

Attachments

10-1.21 CRACK TREATMENT

GENERAL

Summary

This work includes treating cracks in concrete pavement including shoulders. Crack treatment material must be for hot application.

Submittals

If your selected crack treatment material is on the Department's Pre-Qualified Products List, submit a Certificate of Compliance for crack treatment material under Section 6-1.07, "Certificates of Compliance," of the Standard Specifications. With the Certificate of Compliance, submit:

1. Manufacturer's name
2. Production location
3. Product brand or trade name
4. Product designation
5. Batch or lot number
6. Crack treatment material type
7. Contractor or subcontractor name
8. Contract number
9. Lot size
10. Shipment date
11. Manufacturer's signature

If your selected crack treatment material is not on the Department's Pre-Qualified Products List, submit a sample from each batch or lot to be used and test results for each sample 20 days before use. The test results must be from an independent testing laboratory and show compliance with the specifications and include the information specified for the Certificate of Compliance submittal. For hot-applied crack treatment material, submit a minimum 3-pound sample in a silicone release container.

With each delivery of crack treatment material to the job site, submit:

1. Manufacturer's heating and application instructions
2. Manufacturer's Materials Safety Data Sheet (MSDS)
3. Name of the manufacturer's recommended detackifier

Quality Control and Assurance

For hot-applied crack treatment material, at least once per project at a time chosen by the Engineer and in the Engineer's presence, collect two 3-pound minimum samples of crack treatment from the wand into silicone release boxes. Submit 1 sample to the Engineer.

MATERIALS

Crack treatment material must be Type 5 in compliance with:

Crack Treatment Material

Quality Characteristic ^a	ASTM Test Method ^b	Type 1 Material	Type 2 Material	Type 3 Material	Type 4 Material	Type 5 Material
Softening point (min.)	D 36	102 °C	96 °C	90 °C	84 °C	84 °C
Cone penetration at 77° F (max.)	D 5329	35	40	50	70	90
Resilience at 77° F, unaged, %	D 5329	20-60	25-65	30-70	35-75	40-80
Flexibility ^c	D 3111	0 °C	0 °C	0 °C	-11 °C	-28 °C
Tensile adhesion %, (min.)	D 5329	300	400	400	500	500
Specific gravity (max.)	D 70	1.25	1.25	1.25	1.25	1.25
Asphalt compatibility	D 5329	Pass	Pass	Pass	Pass	Pass
Sieve test (percent passing)	See note d	100	100	100	100	100

Notes:

^a Cold-applied crack treatment material residue collected under ASTM D 6943, Method B and sampled under ASTM D 140 must comply with the grade specifications.

^b Except for viscosity, cure each specimen at a temperature of 23 °C ± 2 °C and relative humidity of 50 ± 10 percent for 24 ± 2 hours before testing.

^c For flexibility test, the specimen size must be 6.4 ± 0.2 mm thick x 25 ± 0.2 mm wide x 150 ± 0.5 mm long. Test mandrel diameter must be 6.4 ± 0.2 mm. Bend arc must be 180 degrees. Bend rate must be 2 ± 1 seconds. At least 4 of 5 test specimens must pass at the specified test temperature without fracture, crazing, or cracking.

^d For hot-applied crack treatment, dilute with toluene and sieve through a No. 8 sieve. For cold-applied crack treatment, sieve the product as-received through a No. 8 sieve. If the manufacturer provides a statement that added components passed the No. 16 sieve before blending, this requirement is void.

If crack treatment material is delivered to the job site in containers, each container must be marked with the following information. If crack treatment material is not delivered in containers, the following information must accompany the delivery:

1. Manufacturer's name
2. Production location
3. Product brand or trade name
4. Product designation
5. Crack treatment trade name
6. Batch or lot number
7. Maximum heating temperature
8. Expiration date for cold application only

Hot-applied crack treatment must be delivered to the job site premixed in cardboard containers with meltable inclusion liners or in a fully meltable package.

Sand applied to tacky crack treatment material must be clean, free of clay, and comply with:

Sand Gradation

Sieve Size	Percent Passing
No. 4	100
No. 50	0 - 30
No. 200	0 - 5

CONSTRUCTION

Treat cracks from 1/4 to 1 inch in width for the entire length of the crack. Fill or repair cracks wider than 1 inch as ordered.

Rout cracks or cut with a saw to form a reservoir. Construct the reservoir 1/2 inch wide and 1 1/2 inch deep.

Cracks must be clean and dry before treating. Before treating, blast cracks with oil-free compressed air at a pressure of at least 90 psi.

If the pavement temperature is below 40 °F or if there is evidence of moisture in the crack, use a hot air lance immediately before applying crack treatment. The hot air lance must not apply flame directly on the pavement.

Heat hot-applied crack treatment material in compliance with the manufacturer's instructions. Comply with the manufacturer's application instructions.

Insert crack treatment with a nozzle inserted into the crack. Fill the crack recessed less than 1/4 inch. If after 2 days the crack treatment is more than 1/4 inch below the specified level, or the sealant fails or the crack re-opens, re-treat the crack.

Immediately remove crack treatment material spilled or deposited on the pavement surface.

Before opening to traffic, apply sand or the manufacturer's recommended detackifying agent to tacky crack treatment material on the traveled way. Sweep excess sand before opening to traffic.

MEASUREMENT AND PAYMENT

Crack treatment is measured by the lane-mile. A lane-mile consists of a PCC lane and any adjacent shoulders. The Engineer determines the quantity paid from actual measurements along the edge of each paved lane parallel with the pavement centerline.

The contract price paid per lane-mile for crack treatment includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in treating cracks, complete in place, including crack treatment of shoulders, applying sand and sweeping excess sand, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Filling cracks wider than 1 inch will be paid for as extra work as specified in Section 4-1.03D, "Extra Work," of the Standard Specifications.

BID ITEM LIST
10-0V1704

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	190110	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
22	198007	IMPORTED MATERIAL (SHOULDER BACKING)	TON	5,500		
23	BLANK					
24	390131	HOT MIX ASPHALT	TON	50,200		
25	394044	PLACE ASPHALT CONCRETE DIKE (TYPE C)	LF	1,070		
26	394048	PLACE ASPHALT CONCRETE DIKE (TYPE E)	LF	76,100		
27	394049	PLACE ASPHALT CONCRETE DIKE (TYPE F)	LF	1,430		
28	394050	RUMBLE STRIP	STA	140		
29	394060	DATA CORE	LS	LUMP SUM	LUMP SUM	
30	397005	TACK COAT	TON	200		
31	401108	REPLACE CONCRETE PAVEMENT (RAPID STRENGTH CONCRETE)	CY	32,200		
32	406050	DOWEL BAR (DRILL AND BOND)	LF	90,400		
33	420201	GRIND EXISTING CONCRETE PAVEMENT	SQYD	634,000		
34	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	2.8		
35	680207	3" PLASTIC PIPE	LF	27,800		
36	820118	GUARD RAILING DELINEATOR	EA	230		
37	820151	OBJECT MARKER (TYPE L-1)	EA	33		
38	832003	METAL BEAM GUARD RAILING (WOOD POST)	LF	1,130		
39	019496	DOUBLE METAL BEAM GUARD RAILING (WOODPOST)	LF	1,770		
40	839302	SINGLE THRIE BEAM BARRIER (WOOD POST)	LF	190		

BID ITEM LIST
10-0V1704

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	839540	TRANSITION RAILING (TYPE STB)	EA	6		
42	839541	TRANSITION RAILING (TYPE WB)	EA	41		
43	839561	RAIL TENSIONING ASSEMBLY	EA	12		
44	839585	ALTERNATIVE FLARED TERMINAL SYSTEM	EA	28		
45	839601	CRASH CUSHION (TYPE CAT)	EA	12		
46	839602	CRASH CUSHION (TYPE CAT) BACKU	EA	12		
47	840504	4" THERMOPLASTIC TRAFFIC STRIPE	LF	407,000		
48	840506	8" THERMOPLASTIC TRAFFIC STRIPE	LF	13,100		
49	840508	8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3)	LF	950		
50	840515	THERMOPLASTIC PAVEMENT MARKING	SQFT	5,250		
51	840525	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)	LF	269,000		
52	840526	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)	LF	3,500		
53	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	11,000		
54	860090	MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS	LUMP SUM	LUMP SUM	
55	860889	MODIFY TRAFFIC MONITORING STATION	LS	LUMP SUM	LUMP SUM	
56	861491	MODIFY SIGNAL (LOCATION 1)	LS	LUMP SUM	LUMP SUM	
57	861492	MODIFY SIGNAL (LOCATION 2)	LS	LUMP SUM	LUMP SUM	
58	861493	MODIFY SIGNAL (LOCATION 3)	LS	LUMP SUM	LUMP SUM	
59	BLANK					
60	374207	CRACK TREATMENT	LNMI	87		

BID ITEM LIST
10-0V1704

61	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	
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TOTAL BID:

\$ _____