

DEPARTMENT OF TRANSPORTATION

ESC/OE MS #43
1727 30TH Street, 2ND Floor
Sacramento, CA 95816



February 9, 2001

04-SM-101,114-3.1,8.1/9.4
04-1R9604

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in SAN MATEO COUNTY IN AND NEAR MENLO PARK ON WILLOW ROAD FROM CHESTER STREET TO 0.1 km SOUTH OF ROUTE 84.

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 February 21, 2001.

This addendum is being issued to revise the Notice to Contractors and Special Provisions.

In the Special Provisions, Section 8-1.03, "ASPHALT," is added as attached.

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the following is added:

"Planing asphalt concrete pavement operations shall be performed only on Saturdays, Sundays and designated holidays during the hours indicated as shown in the lane closure charts under "Maintaining Traffic" of these special provisions."

In the Special Provisions, Section 10-1.06, "MAINTAINING TRAFFIC," Lane Closure Charts No. 1, No. 2, No. 7, No. 8 and No. 9 are replaced as attached.

In the Special Provisions, Section 10-1.12, "ASPHALT CONCRETE," is replaced as attached.

In the Special Provisions, Section 10-3.02, "MAINTAINING EXISTING AND TEMPORARY ELECTRICAL SYSTEMS," is replaced as attached.

To Proposal and Contract book holders:

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the proposal.

Submit bids in the Proposal and Contract 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 office is sending this addendum by confirmed facsimile to all book holders to ensure that each receives it.

If you are not a Proposal and Contract 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,

ORIGINAL SIGNED BY

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

Attachments

8-1.03 ASPHALT

The first paragraph and tables following the first paragraph in Section 92-1.02, "Grades," of the Standard Specifications shall not apply.

The grade of asphalt to be used will be specified in "Asphalt Concrete" of these special provisions. The safe transportation, storage, use, and disposal of the asphalt specified shall be the responsibility of the Contractor.

A Certificate of Compliance, as specified in Section 92-1.03, "Test Report," of the Standard Specifications, shall accompany each shipment of asphalt to the project. When PBA Grade 6a, 6b or 7 is specified, the Certificate of Compliance shall include actual results of tests completed by the producer in addition to the items enumerated in Section 92-1.03 of the Standard Specifications. The Certificate of Compliance shall verify that the results of AASHTO Test Method T240 (Mass Loss after Rolling Thin Film Oven Test) indicate a maximum mass loss of 0.6 percent and that AASHTO Test Method T48 (Flash Point, Cleveland Open Cup) indicate a minimum flash point of 232°C. The actual formulation used by the asphalt producer shall be available to the Department upon written request. The Department will execute a non-disclosure agreement if requested by the asphalt producer.

For PBA Grades 6a, 6b or 7, if the results of mass loss after Rolling Thin Film Oven Test (AASHTO Test Method T240) or Flash Point, Cleveland Open Cup (AASHTO Test Method T48), shown on the Certificate of Compliance are not within the limits specified in the table entitled "PERFORMANCE BASED ASPHALT BINDER GRADES" or if the results are not shown on the Certificate of Compliance, the individual shipment of asphalt will be rejected. Rejected asphalt shall not be used on the project. Should rejected asphalt be unloaded into bulk storage tanks, asphalt from the tanks shall not be used on the project until tests and a Certificate of Compliance are furnished for the material and indicate compliance with the specifications.

Asphalt to be used as a binder for asphalt concrete will be sampled using the sampling device specified in Section 39-3.01C, "Asphalt Binder Storage," of the Standard Specifications. Two samples per operating day, each consisting of 2 one-liter containers, will be taken from the bulk storage tank feeder line.

For PBA Grades 6a, 6b or 7, if the test result of samples taken from the bulk storage tank, indicate mass loss greater than 0.6 percent, the material containing the paving asphalt represented by the tests shall be removed. However, if requested in writing by the Contractor and approved by the Engineer, the material containing the paving asphalt with mass loss greater than 0.6 percent may remain in place, and the Contractor shall pay to the State the amount calculated by the formulae listed below.

- A. For mass loss test results over 0.6 percent but less than or equal to 1.0 percent:
 1. (25 percent multiplied by 25 tonne average multiplied by the invoice price of paving asphalt)
- B. For mass loss test results over 1.0 percent:
 1. (100 percent multiplied by 25 tonne average multiplied by the invoice price of paving asphalt).
- C. The Department may deduct this amount from any moneys due, or that may become due, the Contractor under the contract. Each sample from the bulk storage shall represent 25 tonne average. The delivered price of the paving asphalt shall be based on a certified invoice provided by the Contractor.

PERFORMANCE BASED ASPHALT BINDER GRADES

Specification Designation	AASHTO Test Method	PBA Grade				
		1	4	6a	6b	7
Penetration (25°C, 100 g, 5 s), dmm RTFO Aged Residue, Min (Note1)	T49	25	20	—	—	—
Absolute Viscosity (60°C), Pa•s(x10 ⁻¹) (Note 2) Original Binder, min RTFO Aged Residue	T202 T202	800 2500-5000 (Note 3)	2800 14000 Max	2000 5000 Min	2000 5000 Min	1100 3000 Min
Kinematic Viscosity (135°C), m ² /s(x10 ⁻⁶) Original Binder, Max RTFO Aged Residue, Min	T201 T201	— 275	— 350	2000 275	2000 275	2000 275
Absolute Viscosity Ratio (60°C), Max RTFO Visc./Orig. Visc.	—	4.0	4.0	4.0	4.0	4.0
Flash Point, Cleveland Open Cup, °C, (Note 4) Original Binder, Min	T48	232	232	232	232	232
Mass Loss After RTFO Test, % (Note 5)	T240	Report (Note 6)	Report	0.60	0.60	0.60
Solubility in Trichloroethylene, % Original Binder, Min	T44	99.0	99.0	Report	Report	Report
Ductility (25°C, 5 cm/min), cm RTFO Aged Residue, Min	T51	75	50	60	60	75
On Residue from Pav @: or Residue from Tilt Oven @ 113°C for: (hours)	PP1 (Note 7)	90°C 18	100°C 36	100°C 36	100°C 36	110°C 72
SSD -115(SSV)-50.6	(Note 9)	—	—	—	—	25°C
Stiffness, 300 MPa, Max @: and M-value, 0.30, Min	TP1	-6°C	-6°C	-24°C	-30°C	-6°C

Notes:

1. "RTFO Aged Residue" means the asphaltic residue obtained using the Rolling Thin Film Oven Test (RTFO Test), AASHTO Test Method T240 or ASTM Designation: D 2827.
2. The Absolute Viscosity (60°C) of PBA 6a, 6b, and 7 will be determined at 1 sec-1 using ASTM Designation: D 4957 with Asphalt Institute Vacuum Capillary Viscometers.
3. Where actual limits (e.g., 2500-500) are indicated, the actual test results shall be part of the certified copy of test results, or shall be furnished with the Certificate of Compliance.
4. Actual results of the test shall be part of the certified copy of test results and when PBA Grade 6a, 6b, or 7 is used an additional statement verifying an acceptable flash point shall be included with the Certificate of Compliance.
5. Actual results of the test shall be part of the certified copy of test results and when PBA Grade 6a, 6b, or 7 is used an additional statement verifying an acceptable mass loss shall be included with the Certificate of Compliance.
6. Where "Report" is indicated, there is no requirement; however the actual results of the test shall be part of the certified copy of test results, or shall be furnished with the Certificate of Compliance.
7. "Tilt Oven Residue" means the asphalt obtained using California Test 374, Method B, "Method for Determining Asphalt Durability Using the California Tilt-Oven Durability Test."
8. SSD = Shear susceptibility of Delta, SSV = Shear susceptibility of Viscosity.
9. California Test 381.

Chart No. 1																									
Multilane Lane Requirements																									
Location: Northbound on Route 114 (Willow Rd.), from Chester St. I/S to Hamilton Ave I/S																									
FROM HOUR TO HOUR	a.m.											p.m.													
	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9		10	11
Mondays through Thursdays	1	1	1	1	1	1																		1	1
Fridays	1	1	1	1	1	1																		1	1
Saturdays	1	1	1	1	1	1	1	1	1	1	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1	1	1
Sundays	1	1	1	1	1	1	1	1	1	1	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1	1	1	1
Day before designated legal holiday	1	1	1	1	1	1																		1	1
Designated legal holidays	1	1	1	1	1	1	1	1	1	1	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1	1	1	1
Legend:																									
1 One lane open in direction of travel. Planing operations shall not be performed during these hours.																									
1* One lane open in direction of travel. Planing operations shall be performed only during these hours.																									
No lane closure allowed																									
REMARKS:																									

Chart No. 2																										
Multilane Lane Requirements																										
Location: Southbound on Route 114 (Willow Rd.), from Chester St. I/S to Hamilton Ave I/S																										
FROM HOUR TO HOUR	a.m.											p.m.														
	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9		10	11	12
Mondays through Thursdays	1	1	1	1	1																		1	1	1	1
Fridays	1	1	1	1	1																		1	1	1	1
Saturdays	1	1	1	1	1	1	1	1	1	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1	1	1	1	1	
Sundays	1	1	1	1	1	1	1	1	1	1	1*	1*	1*	1*	1*	1*	1*	1*	1*	1	1	1	1	1	1	
Day before designated legal holiday	1	1	1	1	1																		1	1	1	1
Designated legal holidays	1	1	1	1	1	1	1	1	1	1	1*	1*	1*	1*	1*	1*	1*	1*	1*	1*	1	1	1	1	1	
Legend:																										
1 One lane open in direction of travel. Planing operations shall not be performed during these hours.																										
1* One lane open in direction of travel. Planing operations shall be performed only during these hours.																										
No lane closure allowed																										
REMARKS: * Planing operation shall be performed only during these hours.																										

Chart No. 7																									
Ramp Lane Requirements																									
Location: Southbound Route 101 Loop On-Ramp from SB Willow Road (Route 114)																									
FROM HOUR TO HOUR	a.m.												p.m.												
	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Mondays through Thursdays	x	x	x	x	x																				
Fridays	x	x	x	x	x																				
Saturdays	x	x	x	x	x	x	x	x	x*	x*	x*	x*	x*	x*	x*	x*	x*	x*	x	x	x	x	x	x	x
Sundays	x	x	x	x	x	x	x	x	x	x	x*	x*	x*	x*	x*	x*	x	x	x	x	x	x	x	x	x
Day before designated legal holiday	x	x	x	x	x																				
Designated legal holidays	x	x	x	x	x	x	x	x	x	x	x*	x*	x*	x*	x*	x	x	x	x	x	x	x	x	x	x
Legend:																									
<input type="checkbox"/> Ramp may be closed. Planing operations shall not be performed during these hours.																									
<input type="checkbox"/> Ramp may be closed. Planing operations shall be performed only during these hours.																									
<input type="checkbox"/> No work that interferes with public traffic will be allowed																									
REMARKS: See Detour Plan # 3																									

Chart No. 8																									
Ramp Lane Requirements																									
Location: Southbound Route 101 Off-Ramp to SB Willow Road (Route 114)																									
FROM HOUR TO HOUR	a.m.												p.m.												
	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Mondays through Thursdays	x	x	x	x	x	x																			
Fridays	x	x	x	x	x	x																			
Saturdays	x	x	x	x	x	x	x	x	x	x	x	x*	x*	x*	x*	x*	x*	x*	x*	x	x	x	x	x	x
Sundays	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Day before designated legal holiday	x	x	x	x	x																				
Designated legal holidays	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Legend:																									
<input type="checkbox"/> Ramp may be closed. Planing operations shall not be performed during these hours.																									
<input type="checkbox"/> Ramp may be closed. Planing operations shall be performed only during these hours.																									
<input type="checkbox"/> No work that interferes with public traffic will be allowed																									
REMARKS:																									

**Chart No. 9
Ramp Lane Requirements**

Location: Southbound Route 101 Loop Off-Ramp to NB Willow Road (Route 114)

FROM HOUR TO HOUR	a.m.											p.m.																	
	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12				
Mondays through Thursdays	x	x	x	x	x	x																			x	x	x	x	
Fridays	x	x	x	x	x	x																				x	x	x	x
Saturdays	x	x	x	x	x	x	x	x	x	x	x	x	x*	x	x	x	x	x	x	x	x	x	x						
Sundays	x	x	x	x	x	x	x	x	x	x	x	x	x	x*	x*	x*	x*	x	x	x	x	x	x	x	x	x	x	x	x
Day before designated legal holiday	x	x	x	x	x	x																				x	x	x	x
Designated legal holidays	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x*	x*	x*	x	x	x	x	x	x	x	x	x	x	x	x

Legend:

Ramp may be closed. Planing operations shall not be performed during these hours.

Ramp may be closed. Planing operations shall be performed only during these hours.

No work that interferes with public traffic will be allowed

REMARKS:

10-1.12 ASPHALT CONCRETE

Asphalt concrete shall be open graded and shall conform to the provisions in Section 39, "Asphalt Concrete," of the Standard Specifications and these special provisions.

Open graded asphalt concrete may be placed when the atmospheric temperature is below 20°C, but above 10.0°C, provided the following requirements are met:

- A. The aggregate grading shall be 12.5-mm maximum.
- B. Open graded asphalt concrete shall not be placed in a windrow or stockpile. Open graded asphalt concrete shall be transferred directly from the hauling vehicle to the asphalt paver hopper.
- C. Open graded asphalt concrete shall be not less than 30 mm in compacted thickness.
- D. Immediately prior to adding the asphalt binder to the open graded asphalt concrete mixture, the temperature of the aggregate shall be not more than 163°C. Open graded asphalt concrete shall be spread at a temperature of not less than 115°C measured in the hopper in the asphalt paver.
- E. The compaction operation shall be such that the maximum distance between the asphalt paver and the initial breakdown rolling shall be no greater than 15 m.
- F. During the placement of open graded asphalt concrete, the speed of the asphalt paver shall not exceed 10 m per minute.
- G. The Contractor shall cover loads of open graded asphalt concrete with tarpaulins. The tarpaulins shall completely cover exposed open graded asphalt concrete in the hauling vehicle until the open graded asphalt concrete has been completely transferred into the asphalt paver hopper.

The grade of asphalt binder to be mixed with aggregate for open graded asphalt concrete shall be PBA Grade 6a and shall conform to the provisions in "Asphalt" of these special provisions.

Paint binder shall be rapid setting asphaltic emulsion spread at a rate of 0.45 to 0.54 liters per square meter of surface covered. If the Contractor selects the paving asphalt option, the spread rate shall be from 0.28 to 0.41 liters per square meter. The exact rate of application will be determined by the Engineer.

The area to which paint binder has been applied shall be closed to public traffic. Care shall be taken to avoid tracking binder material onto existing pavement surfaces beyond the limits of construction.

Shoulders or bike lane adjacent to a lane being paved shall be surfaced prior to opening the lane to public traffic.

10-3.02 MAINTAINING EXISTING AND TEMPORARY ELECTRICAL SYSTEMS

Traffic signal system shutdowns shall be limited to periods allowed for lane closures listed or specified in "Maintaining Traffic" of these special provisions.

At least three working days prior to performing any work on each existing system, the Contractor shall notify the Department of Transportation, Electrical and Signal Maintenance Superintendent, phone (415) 330-6500