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October 21, 2005

04-SM-1-63.8/64.6
04-1123K4
ER-1187(010)E

Addendum No. 2

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in SAN MATEO COUNTY NEAR PACIFICA ON ROUTE 1 FROM 2.1 KM TO 1.3 KM SOUTH OF LINDA MAR BOULEVARD.

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 November 15, 2005.

This addendum is being issued to revise the Project Plans, the Notice to Contractors and Special Provisions, and the Proposal and Contract.

Project Plan Sheets 1, 38, 44, 56, 59, 68, 109, 118, 124, 125, 126, 128, 137, 138 and 143 are revised. Half-sized copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 35A and 35B are added. Half-sized copies of the added sheets are attached for addition to the project plans.

In the Special Provisions, Section 8-1.05, "ASPHALT," is added as attached.

In the Special Provisions, Section 10-1.28, "MAINTAINING TRAFFIC," the "Chart No. 2" is revised as attached.

In the Special Provisions, Section 10-1.49, "ASPHALT CONCRETE," the following is added after the first paragraph:

"Asphalt binder to be mixed with the aggregate for Type A asphalt concrete shall be either PG Grade or AR Grade. Asphalt shall conform to the provisions in "Asphalt" of these special provisions."

In the Special Provisions, Section 10-1.58, "ARCHITECTURAL TREATMENT (NATURAL ROCK TEXTURE)", is revised as attached.

In the Special Provisions, Section 10-1.62, "PREPARING AND PAINTING CONCRETE", is replaced with Section 10-1.62, "PREPARE AND STAIN CONCRETE", as attached.

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In the Special Provisions, Section 10-1.68, "MISCELLANEOUS METAL (BRIDGE)," the third paragraph is revised as follows:

"Miscellaneous metal (bridge) shall consist of the miscellaneous bridge metal items listed in Section 75-1.03, "Miscellaneous Bridge Metal," of the Standard Specifications, and the following:

- A. Electrolier or advance flashing beacon pedestal anchoring system (anchor plates, bolts and hardware)
- B. Maintenance landing and ladder assemblies and all anchoring devices.
- C. S200 x 34 Galvanized steel beam and all anchoring devices."

In the Special Provisions, Section 10-1.72, "TYPE 60M CONCRETE BARRIER," is deleted.

In the Special Provisions, Section 11. "(BLANK)" is replaced with Section 11, "MODIFIED STANDARD SPECIFICATION SECTIONS," as attached.

In the Proposal and Contract, the Engineer's Estimate Items 75 and 76 are added and Items 74 is deleted as attached.

To Proposal and Contract book holders:

Replace page 6 of the Engineer's Estimate in the Proposal with the attached revised page 6 of the Engineer's Estimate. The revised Engineer's Estimate 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 CONTRACTORS section of the Notice to Contractors 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 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.

This office is sending this addendum by UPS overnight mail to Proposal and Contract book holders to ensure that each receives it. A copy of this addendum is available for the contractor's use on the Internet Site:

http://www.dot.ca.gov/hq/esc/oe/weekly_ads/addendum_page.html

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
Office Engineer

Attachments

8-1.05 ASPHALT

Asphalt shall conform to the provisions in Section 92 of Section 11-2, "Asphalts," of these special provisions and these special provisions.

The grade of asphalt to be used will be specified in the various sections of these special provisions.

If steam-refined paving asphalt (AR) is specified, the asphalt shall conform to the following:

Steam-Refined Paving Asphalts

Specification Designation	AASHTO Test Method	Viscosity Grade				
		AR 1000	AR 2000	AR 4000	AR 8000	AR 16000
Tests on Residue from RTFO Procedure: (California Test 346) ^a						
Absolute Viscosity at 60°C, pascal second (x10 ⁻¹)	T202	750-1250	1500-2500	3000-5000	6000-10000	12000-20000
Kinematic Viscosity at 135°C, min., square meter per second (x10 ⁻⁶)	T201	140	200	275	400	550
Pen. at 25°C, 100 g/5 sec., min.	T49	65	40	25	20	20
% of orig. Pen. ^b at 25°C, min.	—	—	40	45	50	52
Ductility at 25°C, mm, min.	T51	1000 ^c	1000 ^c	750	750	750
Tests on Original Asphalt:						
Flash Point, C.L.O.C.°C, min.	T48	205	215	225	230	235
Solubility in Trichloroethylene, % min.	T44	99	99	99	99	99

a TFO (AASHTO Test Method T179) may be used but the RTFO shall be the referee method.

b Original penetration as well as penetration after the RTFC loss will be determined by AASHTO Test Method T49.

c If the ductility at 25°C is less than 1000 mm, the material will be acceptable if its ductility at 15°C is more than 1000 mm.

If the Department determines the mass of asphalt from volumetric measurements in conformance with the provisions in Section 92-1.04 of Section 11-2, "Asphalts," of these special provisions, the Engineer will use the Conversion Table in Section 93, "Liquid Asphalts," of the Standard Specifications and the following table:

Average Mass and Volumes of Paving Asphalt

Grade	Liters per Tonne at 15°C	Grams per Liter at 15°C
AR-1000	997	1002
AR-2000	989	1011
AR-4000	981	1020
AR-8000	981	1020
AR-16000	981	1020
PG 58-22	981	1020
PG 64-10	981	1020
PG 64-16	981	1020
PG 64-28	981	1020
PG 70-10	981	1020
PBA 6a	981	1020
PBA 6a (mod)	981	1020
PBA 6b	981	1020
PBA 7	981	1020

**Chart No. 2
Two-Lane Conventional Highway Lane Requirements**

Location: Northbound and Southbound Route 1 – From PM 39.6 to 40.1 (Devil's Slide)

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	R	R	R	R	R	R	R																		R	R	R	R	R			
Fridays	R	R	R	R	R	R	R																					R	R	R		
Saturdays	R	R	R	R	R	R	R																					R	R	R	R	R
Sundays																																
Day before designated legal holiday																																
Designated legal holidays																																

Legend:

- R One-way traffic control permitted:
 - Close one traffic lane and stop public traffic for periods not to exceed five minutes.
 - Provide at least one traffic lane.
- 3. Maximum length of one-way control shall be 970 feet (300 meters).
- No work that interferes with public traffic will be allowed.

REMARKS: The above lane closure chart is for the construction of approach roads and cul de sacs. There is no restriction on the work hours inside the tunnel.

10-1.58 ARCHITECTURAL TREATMENT (NATURAL ROCK TEXTURE)

Architectural texture for concrete surfaces shall conform to the details shown on the plans and the provisions in Section 51, "Concrete Structures," of the Standard Specifications and these special provisions.

Architectural textures listed below are required at concrete surfaces shown on the plans:

Formed relief texture simulating the natural rocks formations at the bridge's site.

The architectural texture shall simulate the natural rocks formations at the bridge's site and shall be constructed to the dimensions and shapes shown on the plans. Corners at the intersection of plane surfaces shall be sharp and crisp without easing or rounding. A Class 1 surface finish shall be applied to the architectural texture.

REFEREE SAMPLE

The architectural texture shall match the texture, color and pattern of the referee sample available for inspection by bidders at the Office of Transportation Architecture, Bridge Architecture and Aesthetics Branch, Third Floor, 1801 30th Street, Sacramento, California.

TEST PANEL

Attention is directed to "Prepare and Stain Concrete" of these special provisions.

The test panel approved by the Engineer shall be used as the standard of comparison in determining acceptability of architectural texture for concrete surfaces.

FORM LINERS

Form liners shall be used for textured concrete surfaces and shall be installed in conformance with the manufacturer's recommendations, unless other methods of forming textured concrete surfaces are approved by the Engineer. Form liners shall be manufactured from an elastomeric material or a semi-elastomeric polyurethane material by a manufacturer of commercially available concrete form liners. No substitution of other types of formliner material will be allowed. Form liners shall leave crisp, sharp definition of the architectural surface. Recurring textural configurations exhibited by repeating, recognizable shadow patterns shall be prevented by proper casting of form liner patterns. Textured concrete surfaces with such recurring textural configurations shall be reworked to remove such patterns as approved by the Engineer or the concrete shall be replaced.

Form liners shall have the following properties:

Description	ASTM Designation:	Range
Elastomeric material		
Shore A hardness	D 2240	20 to 65
Tensile strength (MPa)	D 412	0.9 to 6.2
Semi-elastomeric polyurethane		
Shore D hardness	D 2240	55 to 65
Tensile strength (MPa)	D 2370	18 minimum

Cuts and tears in form liners shall be sealed and repaired in conformance with the manufacturer's recommendations. Form liners that are delaminated from the form shall not be used. Form liners with deformations to the manufactured surface caused by improper storage practices or any other reason shall not be used.

Form liners shall extend the full length of texturing with transverse joints at 2.5 m minimum spacing. Small pieces of form liners shall not be used. Grooves shall be aligned straight and true. Grooves shall match at joints between form liners. Joints in the direction of grooves in grooved patterns shall be located only in the depressed portion of the textured concrete. Adjoining liners shall be butted together without distortion, open cracks or offsets at the joints. Joints between liners shall be cleaned before each use to remove any mortar in the joint.

Adhesives shall be compatible with the form liner material and with concrete. Adhesives shall be approved by the liner manufacturer. Adhesives shall not cause swelling of the liner material.

RELEASING FORM LINERS

Products and application procedures for form release agents shall be approved by the form liner manufacturer. Release agents shall not cause swelling of the liner material or delamination from the forms. Release agents shall not stain the concrete or react with the liner material. For reliefs simulating fractured concrete or wood grain surfaces the application method shall include the scrubbing method using a natural bristle scrub brush in the direction of grooves or grain. The release agent shall coat the liner with a thin film. Following application of form release agent, the liner surfaces shall be cleaned of excess amounts of agent using compressed air. Buildup of form release agent caused by the reuse of a liner shall be removed at least every 5 uses.

Form liners shall release without leaving particles or pieces of liner material on the concrete and without pulling or breaking concrete from the textured surface. The concrete surfaces exposed by removing forms shall be protected from damage.

CURING

Concrete surfaces with architectural texture shall be cured only by the forms-in-place or water methods. Seals and curing compounds shall not be used.

MEASUREMENT AND PAYMENT

Architectural treatment (rock texture) will be measured and paid for by the square meter.

The contract price paid per square meter for architectural treatment (rock texture) shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in architectural texture, complete in place, including test panels, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

10-1.62 PREPARE AND STAIN CONCRETE

This work shall consist of preparing and staining concrete surfaces, where shown on the plans, and in conformance with these special provisions.

Materials

Concrete stain shall be a water-based solution of metallic salts that penetrate and react with concrete to produce insoluble, abrasion-resistant color deposits. The stain shall contain dilute acid to etch concrete surfaces so that the staining ingredients can penetrate the concrete.

Concrete stain shall be formulated and applied so that the final color of the stained concrete closely match the color of the existing natural rock formations at the bridge's site and as approved by the Engineer.

Test Panel

A test panel at least 1.25 m x 1.25 m in size shall be completed and approved at a location approved by the Engineer before beginning work on the architectural texture or staining concrete. The test panel shall be constructed, finished, and stained with the materials, tools, equipment, personnel, and methods to be used in constructing, finishing, and staining the concrete surfaces. Additional test panels may be ordered by the Engineer until the specified finish, texture, and color are obtained, as determined by the Engineer.

The test panel approved by the Engineer shall be used as the standard of comparison in determining acceptability of the architectural texture and staining for concrete surfaces.

The Contractor shall submit a copy of the manufacturer's recommendations and written application instructions to the Engineer not less than one week prior to applying concrete stain to test panels.

Debris Containment and Collection Program

Prior to commencing concrete staining operations, the Contractor shall submit to the Engineer a debris containment and collection program for the water and debris resulting from preparing, staining, and rinsing concrete surfaces. The Engineer will notify the Contractor of the approval or rejection of the debris containment and collection program within 2 weeks of the Contractor's complete submittal. No concrete staining work shall be performed until the Engineer has reviewed and approved the debris containment and collection program.

The containment system shall contain all water and debris resulting from preparing, staining, and rinsing stained concrete surfaces. All water and debris collected shall be sampled. Samples shall be taken to an authorized hazardous waste testing laboratory for testing to determine proper disposal procedures. A copy of the test results shall be given to the Engineer.

In the event the Engineer fails to provide approval within the time allowed, and if, in the opinion of the Engineer, completion of the work is delayed or interfered with by reason of the Engineer's delay in providing approval, the Contractor will be compensated for resulting losses, and an extension of time will be granted in the same manner as provided for in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

Disposal of water and debris collected by the containment system shall be performed in conformance with applicable Federal, State, and Local hazardous waste laws, including:

- A. Health and Safety Code, Division 20, Chapter 6.5.
- B. California Code of Regulations, Title 22, Division 4.5
- C. California Code of Regulations, Title 8.

Surface Preparation

New concrete surfaces to be stained shall be cured in conformance with the provisions in Section 90-7.03, "Curing Structures," of the Standard Specifications and these special provisions.

Concrete surfaces to be stained shall be prepared in conformance with the requirements of SSPC-SP 13, "Surface Preparation of Concrete," of the SSPC: The Society for Protective Coatings.

Immediately prior to concrete staining operations the Contractor shall clean concrete surfaces to be stained by water rinsing as defined in Section 59-1.03, "Application," of the Standard Specifications.

Joints between concrete surfaces to be stained and metal surfaces that are galvanized or painted shall be sealed with a single component polysulfide sealant. The polysulfide sealant shall conform to the requirements in Federal Specification TT-S-230, Type II. The color of the polysulfide sealant shall match the color of the existing natural rock formations at the bridge's site.

Concrete Staining

Prior to commencing work, concrete surfaces to be stained shall be tested for acceptance of stain per the manufacturer's recommendations. Any areas that resist accepting stain shall be cleaned as approved by the Engineer.

Concrete stain shall be applied in conformance with the manufacturer's recommendations and the provisions for paint application in Section 59-1.02, "Weather Conditions," of the Standard Specifications, except that stain shall not be applied when the atmospheric or concrete surface temperature is at or below 10°C or above 35°C. The stain shall be applied uniformly, working to avoid excessive rundown. The stain shall be worked into the concrete surface in circular motions with a nylon-bristled brush. Drips, puddles, or other irregularities shall be worked into the concrete.

After the last coat of stain has dried, all stained surfaces shall be rinsed with clean water and wet scrubbed with a stiff bristled nylon brush until the rinse water runs clear.

Adjacent surfaces shall be protected from concrete staining operations. Damage to adjacent surfaces resulting from concrete staining operations shall be repaired at the Contractor's expense.

Payment

Full compensation for prepare and stain concrete shall be considered as included in the contract price paid per square meter for architectural treatment (rock texture) and no separate payment will be made therefor.

SECTION 11. MODIFIED STANDARD SPECIFICATION SECTIONS

SECTION 11-1. (BLANK)

SECTION 11-2. ASPHALTS

Asphalt shall conform to the provisions in this Section 11-2, "Asphalts." Section 92, "Asphalts," of the Standard Specifications shall not apply.

SECTION 92: ASPHALTS

92-1.01 DESCRIPTION

Asphalt shall consist of refined petroleum or a mixture of refined liquid asphalt and refined solid asphalt, prepared from crude petroleum. Asphalt shall be:

- A. Free from residues caused by the artificial distillation of coal, coal tar, or paraffin.
- B. Free from water.
- C. Homogeneous.

92-1.02 MATERIALS

92-1.02(A) GENERAL

The Contractor shall furnish asphalt in conformance with the Department's "Certification Program for Suppliers of Asphalt." The Department maintains the program requirements, procedures, and a list of approved suppliers at:

<http://www.dot.ca.gov/hq/esc/Translab/fpmcoc.htm>.

The Contractor shall ensure the safe transportation, storage, use, and disposal of asphalt.

The Contractor shall prevent the formation of carbonized particles caused by overheating asphalt during manufacturing or construction.

92-1.02(B) GRADES

Performance graded (PG) asphalt binder shall conform to the following:

Performance Graded Asphalt Binder

Property	AASHTO Test Method	Specification				
		Grade				
		PG 58-22 ^a	PG 64-10	PG 64-16	PG 64-28	PG 70-10
Original Binder						
Flash Point, Minimum °C	T48	230	230	230	230	230
Solubility, Minimum % ^b	T44	99	99	99	99	99
Viscosity at 135°C, ^c Maximum, Pa·s	T316	3.0	3.0	3.0	3.0	3.0
Dynamic Shear, Test Temp. at 10 rad/s, °C Minimum G*/sin(delta), kPa	T315	58 1.00	64 1.00	64 1.00	64 1.00	70 1.00
RTFO Test ^e , Mass Loss, Maximum, %	T240	1.00	1.00	1.00	1.00	1.00
RTFO Test Aged Binder						
Dynamic Shear, Test Temp. at 10 rad/s, °C Minimum G*/sin(delta), kPa	T315	58 2.20	64 2.20	64 2.20	64 2.20	70 2.20
Ductility at 25°C Minimum, cm	T51	75	75	75	75	75
PAV ^f Aging, Temperature, °C	R28	100	100	100	100	110
RTFO Test and PAV Aged Binder						
Dynamic Shear, Test Temp. at 10 rad/s, °C Minimum G*/sin(delta), kPa	T315	22 ^d 5000	31 ^d 5000	28 ^d 5000	22 ^d 5000	34 ^d 5000
Creep Stiffness, Test Temperature, °C Maximum S-value, MPa Minimum M-value	T313	-12 300 0.300	0 300 0.300	-6 300 0.300	-18 300 0.300	0 300 0.300

Notes:

- a. For use as asphalt rubber base stock for high mountain and high desert area.
- b. The Engineer will waive this specification if the supplier is a Quality Supplier as defined by the Department's "Certification Program for Suppliers of Asphalt."
- c. The Engineer will waive this specification if the supplier certifies the asphalt binder can be adequately pumped and mixed at temperatures meeting applicable safety standards.
- d. Test the sample at 3°C higher if it fails at the specified test temperature. G*/sin(delta) shall remain 5000 kPa maximum.
- e. "RTFO Test" means the asphaltic residue obtained using the Rolling Thin Film Oven Test, AASHTO Test Method T240 or ASTM Designation: D 2827.
- f. "PAV" means Pressurized Aging Vessel.

Performance based asphalt (PBA) binder shall conform to the following:

Performance Based Asphalt Binder

Property	AASHTO Test Method	Specification			
		Grade			
		PBA 6a	PBA 6a(mod)	PBA 6b	PBA 7
Absolute Viscosity (60°C), Pa·s(x10 ⁻¹) ^a Original Binder, Minimum RTFO Test Aged Residue ^b , Minimum	T202	2000 5000	2000 5000	2000 5000	1100 3000
Kinematic Viscosity (135°C), m ² /s(x10 ⁻⁶) Original Binder, Maximum RTFO Test Aged Residue, Minimum	T201	2000 275	2000 275	2000 275	2000 275
Absolute Viscosity Ratio (60°C), Maximum RTFO Test Visc./Orig. Visc.	—	4.0	4.0	4.0	4.0
Flash Point, Cleveland Open Cup, °C Original Binder, Minimum	T48	232	232	232	232
Mass Loss After RTFO Test, %	T240	0.60	0.60	0.60	0.60
Solubility in Trichloroethylene, % ^c Original Binder, Minimum	T44	Report	Report	Report	Report
Ductility (25°C, 5 cm/min), cm RTFO Test Aged Residue ^b , Minimum	T51	60	60	60	75
On RTFO Test Aged Residue, °C 1 to 10 rad/sec: SSD ^e ≥ 0 and Phase Angle (at 1 rad/sec) < 72°	f	—	35	—	—
On Residue from: PAV ^g at temp., °C Or Residue from Tilt Oven ^f (@113°C), hours	R28	100 36	100 36	100 36	110 72
^c SSD ≥ -115(SSV)-50.6, °C	f	—	—	—	25
Stiffness, Test Temperature, °C Maximum S-value, MPa Minimum M-value	T313	-24 300 0.300	-24 300 0.300	-30 300 0.300	-6 300 0.300

Notes:

- Absolute viscosity (60°C) will be determined at one sec⁻¹ using ASTM Designation: D 4957 with Asphalt Institute vacuum capillary viscometers.
- "RTFO Test 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.
- There is no requirement; however results of the test shall be part of the copy of test results furnished with the Certificate of Compliance.
- "Residue from Tilt Oven" means the asphalt obtained using California Test 374, Method B, "Method for Determining Asphalt Durability Using the California Tilt-Oven Durability Test."
- "SSD" means Shear Susceptibility of Delta; "SSV" means Shear Susceptibility of Viscosity.
- California Test 381.
- "PAV" means Pressurized Aging Vessel.

**ENGINEER'S ESTIMATE
04-1123K4**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61	035193	450 MM PLASTIC FLARED END SECTION	EA	1		
62	721009	ROCK SLOPE PROTECTION (FACING, METHOD B)	M3	8		
63	729010	ROCK SLOPE PROTECTION FABRIC	M2	20		
64 (S-F)	750001	MISCELLANEOUS IRON AND STEEL	KG	110		
65 (S-F)	750501	MISCELLANEOUS METAL (BRIDGE)	KG	32 200		
66 (S-F)	800386	CHAIN LINK FENCE (TYPE CL-1.2, VINYL-CLAD)	M	24		
67 (S)	800391	CHAIN LINK FENCE (TYPE CL-1.8)	M	150		
68 (S)	802672	4.9 M CHAIN LINK GATE (TYPE CL-1.8)	EA	2		
69 (S-F)	049898	TUBULAR BICYCLE RAILING	M	1210		
70 (F)	049899	CONCRETE BARRIER (TYPE 80 M)	M	1220		
71 (S)	860403	HIGHWAY LIGHTING	LS	LUMP SUM	LUMP SUM	
72 (S)	869072	SEISMIC MONITORING SYSTEM	LS	LUMP SUM	LUMP SUM	
73 (S)	049900	BRIDGE LIGHTING SYSTEM AND FOUNDATIONS	LS	LUMP SUM	LUMP SUM	
74	BLANK					
75 (S)	860761	LIGHTING CONDUIT (BRIDGE)	LS	LUMP SUM	LUMP SUM	
76	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

TOTAL BID (A): = _____

TOTAL BID (B):

\$ 10,000.00 x _____ = _____

(Cost Per Day) (Enter Working Days Bid)
(Not To Exceed 600 Days)

TOTAL BASIS FOR COMPARISON OF BIDS: (A + B): _____