

ADDENDUM NO. 1

**To the Bid Book, Notice to Bidders,
Plans and Special Provisions
for construction of the**

CARMEL HILL AND RIVER BIKE TRAIL NEAR ROUTE 1 FROM RIO ROAD TO 0.1 MILE NORTH OF CARMEL VALLEY ROAD IN MONTEREY COUNTY, CALIFORNIA

To Plan holders:

The Bid Book is amended as follows:

1. **AMEND** the Bid Item List, page 7, by increasing the estimated quantity of Bid Item No. 62, Tree Protection, to 300 LF. Replace page 7 of the Bid Book with the attached page 7.

The Notice to Bidders is amended as follows:

1. **AMEND** the eighth paragraph on Page 9 by replacing said paragraph with the following:

“Technical questions should be directed to the Transportation Agency for Monterey County (TAMC) at 55-B Plaza Circle, Salinas, California 93901, California, telephone (831) 775-4412, email Hank@tamcmonterey.org. Technical questions shall be submitted in writing before 5:00 P.M. on December 28, 2009.”

The Plans are amended as follows:

1. **ADD** to Sheet S2, “General Notes Carmel Hill and River Bike Trail Pedestrian Undercrossing”, Note 9, “Retaining Wall Design Criteria”, the following:

“f’c = 3600 psi”

The Special Provisions are amended as follows:

1. **AMEND** the Copy of Bid Item List, Bid Item No. 62, page 14, by increasing the estimated quantity of Tree Protection to 300 LF.

2. **ADD** to Section 4, "Liquidated Damages", Item 3, the following:

"Liquidated damages shall not be cumulative."

3. **AMEND** Section 5-1.16, "Encroachment Permits", by replacing said section with the following:

5-1.16 ENCROACHMENT PERMITS

Prior to start of work within the State of California's right-of-way or work affecting the State of California facilities, the contractor will be required to obtain an Encroachment Permit at the following State of California Transportation office:

*CALTRANS, DISTRICT 5
ENCROACHMENT PERMITS OFFICE
50 HIGUERA STREET
SAN LUIS OBISPO, CA 93401*

Application fee and site inspection costs shall be paid by the Contractor. Application fee and site inspection costs will be reimbursable.

The Contractor shall also obtain an Encroachment Permit from Monterey County for work within County right of way. The County Encroachment Permit fee shall be reimbursable.

Full compensation for conforming to the requirements in these permits shall be considered as included in the contract prices paid for the various item or work and no additional compensation will be allowed therefore.

4. **ADD** to Section 5-1.18, "Traffic and Circulation", the following:

"Prior to mobilization, a Staging Plan must be approved by the Engineer. The Plan shall outline the Contractor's proposed staging areas, fence locations, and entrances."

5. **AMEND** the section number of Section 10-1.03, "Progress Schedule (Critical Path Method)" to Section 10-1.02.

6. **ADD** to Section 10-1.02, "Progress Schedule (Critical Path Method)", the following:

"The project CPM Schedule must be accepted by the Engineer prior to receiving full notice to proceed."

7. **ADD** to Section 10-1.03, "Water Pollution Control", the following:

"The project SWPPP must be approved by the Engineer prior to beginning grading operations."

8. **ADD** to Section 10-1.16, "Portable Changeable Message Signs", before the first paragraph under "Construction", the following:

"Portable Changeable Message Signs shown on the plans shall be supplied for the duration of lane closure, and for a minimum of two weeks prior to any planned lane closure (except moving lane closures)."

9. **AMEND** Section 10-1.34, "Waterproofing," of the special provisions by replacing said section with the following:

10-1.34 WATERPROOFING

Waterproofing shall conform to the provisions in Section 54, "Waterproofing," of the Standard Specifications and these special provisions.

Waterproofing shall be membrane waterproofing, preformed membrane waterproofing system, or geotextile/bentonite membrane waterproofing.

PREFORMED MEMBRANE WATERPROOFING

At the option of the Contractor, a preformed membrane waterproofing system may be furnished and applied in lieu of the asphalt membrane waterproofing specified above. Preformed membrane waterproofing shall conform to these special provisions.

A Certificate of Compliance conforming to the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications shall be furnished for the preformed membrane sheet. The Certificate of Compliance shall include the following information: (1) type of preformed membrane sheet, and (2) the conditioner or primer application rates.

The preformed membrane waterproofing system shall consist of an adhesive, conditioner, or primer applied to a prepared surface; a preformed membrane sheet of rubberized asphalt or polymer modified bitumen; mastic or tape for sealing the edges of the sheet; and a protective covering over the sheet held by an adhesive.

The preformed membrane sheet shall be either permanently applied to a polyethylene film or reinforced with a polypropylene mesh fabric, polyester/polypropylene fabric, or a fiberglass mesh fabric. The membrane sheet shall conform to the following requirements:

Property	Test	Requirement	
		Polyethylene Film	Fabric Reinforced
Tensile Strength (min.)(1)	ASTM D 882 (2)	20 lbs/inch (3)	20 lbs/inch (3)
Percent Elongation at break (min.) (4)	ASTM D 882 (2)	150 percent (3)	25 percent (3)
Pliability	ASTM D 146 (5)	No cracks	No cracks
Thickness (min.) (6)	-----	60 mils	60 mils
Rubberized Asphalt Softening Point (min.)	AASHTO T 53	165 °F	165 °F
Polymer Modified Bitumen Softening Point (min.)	AASHTO T 53	210 °F	210 °F

Notes:

(1) Breaking factor in machine direction.

(2) Method A, average 5 samples.

(3) At 73.4 °F ±3.6 °F

(4) Machine direction.

(5) 180-degree bend over a one-inch mandrel at 10 °F

(6) Total thickness of preformed membrane sheet and polyethylene film or fabric reinforcement

Construction

Adhesives, conditioners, primers, mastics, and sealing tapes shall be manufactured for use with the respective preformed membrane sheet materials and shall be applied according to the manufacturer's recommendations.

The protective covering shall be 1/8 inch minimum thickness hardboard or other material that furnishes equivalent protection. Backfill material and equipment shall not cut, scratch, depress, or cause any other damage to the preformed membrane.

Surfaces designated to receive preformed membrane waterproofing shall be thoroughly cleaned of dirt, dust, loose or unsound concrete, and other extraneous material and shall be free from fins, sharp edges, and protrusions that would, in the opinion of the Engineer, puncture or otherwise damage the membrane. Sharp corners to be covered shall be rounded (outside) or chamfered (inside).

Surfaces shall be dry when components of the preformed membrane waterproofing system are applied.

Preformed membrane waterproofing shall not be applied to any surface until the Contractor is prepared to follow its application with the placing of the protective covering and backfill within a sufficiently short time that the membrane will not be damaged by workers or equipment, exposure to weathering, or from any other cause. Damaged membrane or protective covering shall be repaired or replaced by the Contractor at the Contractor's expense.

All projecting pipe, conduits, sleeves, or other facilities passing through the preformed membrane waterproofing shall be flashed with prefabricated or field-fabricated boots, fitted coverings or other devices as necessary to provide watertight construction.

All conditioner or primers shall be thoroughly mixed and continuously agitated during application. Conditioner, primers, or adhesive shall be allowed to dry to a tack free condition prior to placing membrane sheets.

The surfaces shall be recoated if membrane sheets are not placed over primer, conditioner, or adhesive within the time recommended by the manufacturer.

The preformed membrane sheet shall not be applied in wet or foggy weather, nor when the ambient temperature is below 40 degrees F.

Preformed membrane material shall be placed starting at the bottom and lapped by a minimum of 6 inches at splices and at repairs to holes or tears.

Exposed edges of membrane sheets shall have a trowelled bead of manufacturer's recommended mastic or sealing tape applied after the membrane is placed.

The surface of the preformed membrane shall be cleaned free of dirt and other deleterious material before the protective covering is placed.

The protective covering shall be placed on a coating of adhesive of a type recommended by the preformed membrane manufacturer. The adhesive shall be applied at a rate sufficient to hold the protective covering in position until the backfill is placed.

BENTONITE WATERPROOFING

At the option of the Contractor, a geotextile bentonite clay waterproofing membrane system may be furnished and applied in lieu of the asphalt membrane waterproofing specified above. Geotextile/Bentonite membrane shall consist of geotextile panels of sodium bentonite clay sandwiched between two layers of needle-punched woven and non-woven polypropylene fabrics. Mastic shall be recommended by the panel manufacturer and used for detailing at terminations and penetrations. Mastic may also be used to fill minor voids in concrete and as a fillet in angle changes. Geotextile/bentonite membrane waterproofing shall conform to these special provisions.

Certificate of Compliance conforming to the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications shall be furnished for the bentonite waterproofing. The Certificate of Compliance shall include the type of bentonite waterproofing sheets.

Membrane manufacturer shall have a minimum of 5 years of experience in the geotextile/bentonite waterproofing industry.

Installer shall have a minimum of 2 years of experience in installing bentonite clay waterproofing products.

The membrane panels shall conform to the following requirements:

Property	ASTM Test Method	Requirement
Bentonite Content	--	1.0 pounds per square foot
Nominal Dry Thickness	--	0.25 inch
Permeability	D 5084	5×10^{-9} centimeters/second
Grab Tensile Strength	D 4632	95 pounds
Grab Elongation	D 4632	150 percent
Puncture Resistance	D 4833	120 pounds per square inch
Hydrated Internal Shear	D 5321	500 pounds per square foot
Swell Index	D 5890	2 grams minimum
Fluid Loss	D 5891	18 milliliters maximum
Hydrostatic Head Pressure	D 751	228 feet
Adhesion to Concrete @ 12% moisture content	D 903	17.7 pounds per inch

Construction

The bentonite waterproofing sheet shall be bonded to the concrete substrate with a mastic recommended by the sheet manufacturer. Mastic shall be applied to all joints 1/4-inch thick minimum and 3-inches width minimum.

Prevent geotextile bentonite clay waterproofing membrane from hydrating before being backfilled. If precipitation is forecast or backfill is not immediate, cover the membrane with polyethylene sheeting.

Surfaces designated to receive waterproofing shall be cleaned of dirt, loose or unsound concrete, and other extraneous material and shall be free from fins, sharp edges, and protrusions that would, in the opinion of the Engineer, puncture or otherwise damage the membrane. Sharp corners to be covered shall be rounded (outside) or chamfered (inside). Honeycombing, voids and aggregate pockets exceeding 1-inch in diameter or have a depth greater than 3/4-inch shall be filled with a non-shrink cementitious grout. Fill tie-rod holes with a non-shrink cementitious grout.

Starting at the bottom, unroll the membrane and nail across top of panel with nails at 12-inches on center maximum. Allow sheet to hang down nailing only as required to stabilize. Install adjacent membrane by overlapping edges 4-inches minimum. Fasten membrane seam with nails at 18-inches on center maximum or less to prevent blousing. Nails shall be 3/4- to 1-inch long concrete nails with 1-inch minimum diameter washers. Mechanically fasten membrane sheets together with a box stapler or similar device for horizontal applications.

Extend membrane to 12 inches minimum below construction joint. Fasten membrane to the substrate to maintain constant compression using a 1/8-inch thick and 1-inch wide termination bar. Trowel a 1/2-inch thick minimum and 2-inch wide minimum bead of mastic at top edge of membrane and cover termination bar.

Strip in all outside corners and transitions with a 12-inch wide piece of membrane to double cover these areas. Make a minimum 1-inch cant at all inside corners with mastic.

Waterproofing shall not be applied to any surface until the Contractor is prepared to follow its application with backfill within a sufficiently short time that the membrane will not be damaged by workers or equipment, exposure to weathering, or from any other cause. Damaged membrane shall be repaired or replaced by the Contractor at the Contractor's expense.

All projecting pipe, conduits, sleeves or other facilities passing through the waterproofing shall be flashed with prefabricated or field-fabricated boots, fitted coverings, or other devices as necessary to provide watertight construction.

MEASUREMENT AND PAYMENT

Waterproofing will be measured and paid for as asphalt membrane waterproofing by the square foot.

Acknowledge receipt of this Addendum on page 16 of the Bid Book.

Sincerely,



Richard Weber, PE
RCE 55219

Attachment

ITEM NO.	ITEM CODE	ITEM	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE	ITEM TOTAL
59		SELECTED MATERIAL (DUFF AND/OR TOPSOIL)	CY	2,500		
60		AESTHETIC TREATMENT - FASCIA STONE	SQFT	954		
61		MITIGATION AREA SOIL PREPARATION	CY	2,000		
62		TREE PROTECTION	LF	300		
63		SIGNAL INTERCONNECT WORK	LS	1		

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TOTAL BID _____

NOTE: "**TOTAL BID**" is only on the last page of the Bid Item List.