



THOMAS L. BOLICH
DIRECTOR OF PUBLIC WORKS

County of Santa Cruz 0365

DEPARTMENT OF PUBLIC WORKS

701 OCEAN STREET, ROOM 410, SANTA CRUZ, CA 95060
(831) 454-2160 FAX (831) 454-2385 TDD (831) 454-2123

AGENDA: DECEMBER 12, 2000

November 30, 2000

SANTA CRUZ COUNTY BOARD OF SUPERVISORS
701 Ocean Street
Santa Cruz, California 95060

SUBJECT: BROWNS VALLEY ROAD BRIDGE REPLACEMENT PROJECT
DESIGN CONSULTANT AMENDMENT

Members of the Board:

The Browns Valley Road Bridge has been in engineering design for the last several years, and during that time the scope of work has changed due to engineering design and environmental constraints recently mandated by the federal endangered species criteria (added evaluations, mitigation, and streambed adjustments). Because of this increase to our original 1997 contract scope of work, we are now requesting that the Board of Supervisors authorize Public Works to increase the amount of the current contract with Martin, Rivett & Olson, Inc. (formerly Martin & Kane) by an additional \$33,815. This amount will complete the engineering and associated environmental work of the project, which is tentatively scheduled for construction summer 2001. It should also be noted that the California Department of Transportation (CALTRANS) administers this project under the Highway Bridge Replacement and Rehabilitation (HBRR) Program and will provide the County federal funding reimbursement at 80 percent of all eligible project costs (excluding overhead).

Attached for your Board's review and approval is an amendment to the independent contractor agreement between the County and Martin, Rivett & Olson, Inc. to cover the suggested costs necessary to complete the final plans and specifications. Funding for this proposed not-to-exceed increase of \$33,815 is available in the approved 2000/2001 Road Program.

It is therefore recommended that the Board of Supervisors take the following action:

1. Approve the attached amendment to agreement with Martin, Rivett & Olson, Inc., for an additional \$33,815 for a total not-to-exceed amount of \$140,118, for continued engineering design services for the Browns Valley Road Bridge Replacement Project.

2. Authorize the Director of Public Works to sign the agreement on behalf of the County.

Yours truly,



THOMAS L. BOLICH
Director of Public Works

WBW:mg

Attachment

RECOMMENDED FOR APPROVAL:


County Administrative Officer

copy to: Martin, Rivett & Olson, Inc.
 Bill Tyler, CALTRANS Local Assistance
 Public Works

MARTM

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COUNTY OF SANTA CRUZ
REQUEST FOR APPROVAL OF AGREEMENT

0367

Vendor 113104

TO: Board of Supervisors
County Administrative Officer
County Counsel
Auditor-Controller

FROM:

PUBLIC WORKS

(Dept.)

(Signature)

11-29-00

(Date)

The Board of Supervisors is hereby requested to approve the attached agreement and authorize the execution of the same.

- Said agreement is between the COUNTY OF SANTA CRUZ (Agency)
Martin, Rivett & Olson, Inc.
and 2200 Douglas Boulevard, Suite 150, Roseville, CA 95661 (Name & Address)
- The agreement will provide for engineering design services for the Browns Valley Road
Bridge Replacement Project over Los Corralitos Creek
- The agreement is needed, because the work can be performed most expeditiously by contract
- Period of the agreement is from Board Approval to June 30, 2001
- Anticipated ~~cost~~ ^{increase} is \$ 33,815.00 (Fixed amount; Monthly rate; Not to exceed)
- Remarks: Contract \$140,118.00; 6% Overhead \$8,407.08; Total \$148,525.08
- Appropriations are budgeted in 6 2 1 1 0 0 ! 4 0 2 3 6 ! 3 6 6 5 ! (Index#) 3590 (Subobject)

NOTE: IF APPROPRIATIONS ARE INSUFFICIENT, ATTACH COMPLETED FORM AUD-74

Appropriations are available and will be encumbered.

Contract No. 01543 Date 11-30-00

GARY A. KNUTSON, Auditor - Controller

BY

P. J. Wang

Deputy.

Proposed reviewed and approved. It is recommended that the Board of Supervisors approve the agreement and authorize the
Director of Public Works to execute the same on behalf of the Department of
Public Works (Agency).

Remarks: DN (Analyst)

County Administrative Officer
BY [Signature] Date 12/1/00

Agreement approved as to form. Date _____

WBW:bbs

Distribution:

Bd. of Supv. - White
Auditor-Controller - Blue
County Counsel - [initials]
Co. Admin. Officer - Canary
Auditor-Controller - Pink
Originating Dept. - Goldenrod

*To Orig. Dept. if rejected.

State of California)
County of Santa Cruz) ss

I, _____ ex-officio Clerk of the Board of Supervisors of the County of Santa Cruz,
State of California, do hereby certify that the foregoing request for approval of agreement was approved by
said Board of Supervisors as recommended by the County Administrative Officer by an order duly entered
in the minutes of said Board on _____

County Administrative Officer

BY _____ Deputy Clerk

AMENDMENT TO AGREEMENT

97027

0368

The **parties** hereto agree to amend Contract Number 7 1543 dated November 4, 1997,
by and between the COUNTY OF SANTA CRUZ and MARTIN, RIVETT & OLSON, INC.
(formerly Martin & Kane, Inc.), for engineering design services for the Browns Valley Road Bridge
Replacement Project, by increasing the contract amount \$33,815, for a total not-to-exceed amount of
\$140,118.

All other provisions of said contract shall remain the same.

DATED: _____

COUNTY OF SANTA CRUZ
DEPARTMENT OF PUBLIC WORKS

DIRECTOR OF PUBLIC WORKS

CONTRACTOR:
MARTIN, RIVETT & OLSON, INC.

BY: Ronald L. Rivett

ADDRESS: 2200 Doughs Blvd., Suite 150
Roseville, CA 95661-3878

TELEPHONE: (916) 783-3 83 8

FAX: (916) - 783-5003

E-MAIL: RRIVETT@MROENGINEERS.COM

Approved as to form:

D. McRae 12-1-00
Chief Assistant County Counsel

DISTRIBUTION: Auditor-Controller
Public Works
Contractor

WBW:mg

AMNDAGRE.DOC/MARTM
REV. 12/99



September 22, 2000

MARTIN, RIVETT & OLSON, INC.
CONSULTING ENGINEERS

2200 B Douglas Boulevard, Suite 150
Roseville, California 95661-3878
(916) 783-3838 • Fax (916) X3-5003

A Martin Associates Group Company • Formerly Martin & Kane, Inc.



0369

Mr. Bill Williamson
County of Santa Cruz
Department of Public Works
701 Ocean Street, Room 410
Santa Cruz, CA 95060-4070

Subject: Browns Valley Road Bridge (MR&O 97027)
Request for Additional Funds

Dear Bill:

In response to your recent request to provide a summary of our expenditures to date and an estimate of the cost to complete the project, I have researched our files and reviewed the status of the PS&E. The following chart details our approved budget.

Current Budget

Description	Amount
Original Budget	\$98,404
Amendment 10/4/99 (Revise APS)	\$7,899
Total	\$106.303

As detailed below, our costs have gone beyond the approved budget by \$28,315. These overruns are because of verbal requests and e-mails from the County for additional work beyond our scope of work. A detailed explanation of these costs follows the table below.

Amount Expended By Item

Item	Description	Amount	Notes
1	Original Scope	\$111,104	\$12,700 over budget
2	Amendment 10/4/99	\$7,899	
3	Metric Conversion Extra Work	\$4,950	8/16/00 Fax ✓
4	Additional Surveying	\$2,035	7/31/00 Letter ✓
5	Coordinating with Balance Hydrologics	\$4,190	
6	Designing Construction Access Road	\$1,840	
7	Establishing Appropriate Design Seed	\$2,600	
	Total	\$134,618	\$28,315 over budget

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Affiliate Offices in:

San Diego, California • Las Vegas, Nevada • Denver, Colorado • Phoenix, Arizona • Kansas City, Kansas • Los Angeles, California

An explanation of each extra work item follows:

1. The original scope of work did not include the length of time it would take to complete the County's preliminary work (environmental, geotechnical and hydraulic). The original schedule called for going to construction in 1998. Presently construction is scheduled for 2001. This has resulted in significantly increased project management time, increased billing rates, and increased time because of the inefficiencies of multiple remobilizations.

The scope of work also did not account for the large number of design iterations required to satisfy the local residents and County. The horizontal roadway alignment was revised numerous times either to minimize right-of-way take in the southeast quadrant, to minimize impacts to apple trees in the northwest quadrant, to minimize impacts to the historic rock wall in the southeast quadrant, to minimize impacts to birch trees in the northwest quadrant, etc. We have also provided roadway cross sections for the County to check the impact of fill slopes on apple trees and to check the roadway design. At this time we are still not certain what type of bridge railing will be required on the structure. A change to open steel tubular railing from closed concrete barrier railing will increase design costs.

It was also necessary to work with the County's geotechnical consultant, Haro, Kasunich and Associates, more than would normally be expected in order to get appropriate design data and a Log of Test Borings that would be acceptable to Caltrans Structures.

2. The Amendment to the contract, dated 10/4/97, was approved to account for a change in the structure type because of environmental constraints. Therefore a new Advance Planning Study was required and developed.
3. The original contract called for the design to be in Imperial Units. Because of Caltrans' switch to metric units (especially in their specifications), we were requested by the County to convert our survey data from Imperial to metric units. A package is attached which gives a good chronology of the approval process for this extra work item.
4. We were requested by Ms. Patrice Theriot to provide right-of-way descriptions and additional topography in order to give the County adequate time to acquire property or access to property during construction. Unfortunately this request was premature (Mid Coast engineers performed the work). Later in the project development phase the work had to be redone by Mid Coast Engineers. Please see the attached June 26, 2000 letter from Mid Coast to Ron Rivett and July 31, 2000 letter from Martin, Rivett & Olson to Larry Tanaka for a more detailed explanation of this extra work.
5. There was a significant amount of coordination with Jonathan Owens at Balance Hydrologics to properly design and detail the rock slope protection required by the hydraulics of the site and the environmental mitigation proposed by the National Marine Fisheries Service (NMFS). Our original scope never included time for extensive rock slope protection (RSP) design as well as unique details for the protection of steelhead trout.
6. Patrice Theriot asked us to layout a construction access road in the northeast quadrant of the project in order to determine the extent of right-of-way that would be required and the number of apple trees that would be impacted. This layout included horizontal and vertical alignment with cross sections.



This was not part of our original scope; it is more commonly part of the construction contractor's responsibility (how to access the channel bottom).

7. An extensive effort was required, in coordination with the County, to determine a design speed which could be legally supported by the County and MR&O. This involved research, a field review and numerous telephone calls.

An estimate of the time required to complete the project follows:

Estimated Hours To Complete Project

Description	Hours	Amount
Revise 95% Bridge Plans	20	\$1,500
Prepare Bid Documents	40	\$3,000
Bidding Support	10	\$1,000
Total	70	\$5,500

Upon completion of our contract we estimate that we will be over budget by \$33,815 (\$28,315 + \$5,500). As a result, we respectfully request that our contract be increased to \$140,118 (\$106,303 + \$33,815).

If you have any questions regarding this request please call.

Sincerely

MARTIN, RIVETT & OLSON, INC.

Ronald L. Rivett, P.E.
Principal

Attachments: July 31, 2000 letter with backup requesting additional funds for out of scope surveying (previously sent to County)

August 16, 2000 Fax transmittal with backup requesting additional funds for metric conversion (previously sent to County)

NO.	ROUTE DATA	COPY	ATT.
1	DIRECTOR	✓	
	ASST. DIR. SPEC. SVCS.		
	SOLID WASTE ENG.		
	LANDFILL OPERATIONS		
	PAJARO COORD.		
	DRAINAGE ENG.		
	DRAINAGE OPERATIONS		
	CONSTRUCT. ENG.		
	ASST. DIR. DEV. SVCS.		
	SANITATION ENG.		
	WATER & WASTEWATER		
	SURVEY / DEVELOPMT.		
	RDA ENG.		
2	ASST. DIR. TRANSPORTN.	✓	
	ROAD OPS. ENG.		
	PERMITS / ENCROACHMENT		
	ROAD MAINT/PARKING PRO		
3	ROAD DESIGN ENG.	✓	✓
	TRANSP / ROAD PLANNING		
	DIR. OF ADMIN. SERVICES		
	REAL PROPERTY		
	CSA / PRGM ADMIN.		
	SAFETY OFFICER / FLEET		

w/all attach