

August 15, 1994

Mr. Michael Bedker
Land Based Development
111 Deerwood Road, Suite #200
San Ramon, California 94583

RE: SUBDIVISION 7462
Pavement Evaluation and Design
Mount Diablo Scenic Boulevard
Diablo, California

Dear Mr. Bedker:

At your request, Rogers/Pacific has prepared this proposal to evaluate the existing asphalt concrete (AC) pavement and provide AC pavement design recommendations for approximately 3600 lineal feet of Mt. Diablo Scenic Boulevard between Diablo Road and the project entrance. It is our understanding that under the conditions of approval for Subdivision 7462 (Black Oak Estates), the County Public Works Department is requiring that you improve or reconstruct this section of Mount Diablo Scenic Boulevard as a 22-foot wide section with a 2-foot rock shoulder or asphalt curbs. The purpose of our work will be to evaluate the existing pavement conditions to determine whether the in-place pavement section can be incorporated (with an overlay) into the new roadway, or whether construction of a new AC pavement section will be required within the established alignment. We will provide pavement design recommendations (for overlay and/or new pavement section) for the existing alignment area and the proposed widening area.

SCOPE OF WORK

The scope of our work will include the following tasks:

- Perform a visual condition survey of the existing roadway pavement.
- Determine existing pavement section thickness and subgrade soil conditions by drilling shallow borings (potholes) at six locations and collecting soil samples for R-value and density testing. The borings will be backfilled and patched with asphalt concrete upon

completion.

- Perform engineering analyses of the acquired field and laboratory data to determine the suitability of the existing pavement section and to design the new pavement section.
- Prepare letter report summarizing our findings and providing design recommendations regarding the existing paving or new pavement sections. It is our understanding that the project Civil Engineers will prepare the design plans.

In order to facilitate this study, we would request that you provide us with a detailed reproducible map of the roadway alignment in the vicinity in question. If this map is provided in an AutoCAD-compatible file, our time preparing a location map for the written report can be reduced. Additionally, the Traffic Index (TI) for the roadway would need to be provided to us by the County or the project traffic/transportation engineer.

ESTIMATED COSTS

Field Work:

Senior Engineer	11 hrs @ \$90/hr	= \$	990	
Driller and Grouting Crew (Subcontractor)	11 hrs @ \$150/hr	= \$	1,650	
Traffic Control		= \$	500	
Field Supplies (Photos, Asphalt Patch, etc.)		= \$	100	
Mileage	80 miles @ \$.50/mi	= \$	40	
County Permit Acquisition		= \$		375
Grout, Equipment Rental		= \$		350

Laboratory Testing:

R-value Tests	4 tests @ \$180 ea.	= \$	720	
Moisture Density Tests	20 tests @ \$17 ea.	= \$	340	

Evaluation and Report:

Principal Engineer	4 hrs @ \$110/hr	= \$	440	
Senior Engineer	16 hrs @ \$90/hr	= \$	1,440	
Drafting	4 hrs @ \$55/hr	= \$	220	
Word Processing/Clerical	6 hrs @ \$55/hr	= \$	330	
Misc. (copy, mail, phone, etc.)		= \$		75

TOTAL NOT-TO-EXCEED = \$ **7,570**

Rogers/Pacific, Inc. will perform the aforementioned scope of work in accordance with the attached 'standard terms and conditions' on a Time-and-Materials/Not-to-Exceed basis for **\$7,570**. If the cost

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to complete this project is less than this amount, you will only be billed for the actual costs incurred. If, for any reason, the cost of work to be performed appears as if it will exceed this cost, you will be notified immediately. Please be advised that this contract does not cover requested meetings with the Project Engineers, County engineering or planning personnel, etc. These types of services will be billed on a Time-and-Materials basis according to the attached fee schedule. To cover our out-of-pocket costs for subcontract drilling expenses we would request that a retainer of \$ 3,500 be forwarded to our office prior to performance of the work.

SCHEDULE

It is our understanding that you would like this work completed as soon as possible. We are available to commence with this work as soon as we can schedule a mutually agreeable date for the field testing and after receipt of your written permission to proceed. We have assumed that the field work will take no more than one day and we would like approximately two to three weeks to complete the evaluation and written report.

CLOSURE

Rogers/Pacific, Inc. will employ accepted geotechnical engineering procedures, and professional opinions and conclusions will be made in accordance with generally accepted geotechnical engineering principles and practices. This warranty is in lieu of all other warranties, either expressed or implied.

If you would like us to proceed with the above outlined scope of work, please return a signed copy of this contract or forward a purchase order for the indicated amount. If you have any questions, please give us a call at (510) 682-7601.

Sincerely,

ROGERS/PACIFIC, INC.

R. John Caulfield, P.E.
Principal Civil Engineer

Approved by: _____ Date: _____

RJC/rjk

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Copies: Addressee (2)

SITE ASSESSMENT c LABORATORY TESTING c DESIGN SERVICES c COST ESTIMATING c CONSTRUCTION MANAGEMENT c EXPERT TESTIMONY

ROGERS/PACIFIC

543, CT1925T, L-7103