



JOHN A. FANTHAM  
DIRECTOR OF PUBLIC WORKS

# County of Santa Cruz

## DEPARTMENT OF PUBLIC WORKS

701 OCEAN STREET, ROOM 410, SANTA CRUZ, CA 95060  
(831) 454-2160 FAX (831) 464-2385 TDD (831) 454-2123

### AGENDA: FEBRUARY 23, 1999

February 11, 1999

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

SUBJECT: GRAHAM HILL ROAD IMPROVEMENT PROJECT  
ROUTE CONCEPT REVISION: PHASES I AND II  
(1998 STIP AUGMENTATION FUNDING REQUEST)

Members of the Board:

Last year as part of the County's proposal for State Transportation Improvement Program (STIP) funding, your Board approved an application for improving Graham Hill Road from Roaring Camp to Lockwood Lane. In response, the Santa Cruz County Regional Transportation Commission (SCCRTC) authorized \$1,000,000 in **STIP funds** for needed improvements to this segment of roadway, which were then included in the County's 1998/99 Road Budget, along with \$200,000 in local match **funds**.

Following the recent completion of more detailed route concept studies, we have determined it will be necessary to complete the project in two phases. This will allow us to apply the **funding** available toward the most critical operational problems on that segment of Graham Hill Road between Roaring Camp and the existing climbing lane. The total length of the project would then be 0.64 miles, which we have labeled Phase I. These priority road-widening improvements would include construction of a storm drain improvement to replace the present open ditch, clearing of trees and vegetation for slope grading in order to add a left turn lane for the Roaring Camp intersection and the adjacent residential area, and some highway safety lighting (see attached SCCRTC nomination sheet).

Phase II of the project would include most of the roadway excavation required to provide bikelanes along this same section of Graham Hill Road, the installation of additional drainage improvements and driveway conforms, and continued highway safety lighting. We estimate this second phase will cost \$1,500,000. We would propose that the Board request the

SCCRTC's approval of this additional **funding** from the estimated \$8,843,000 in 1998 STIP Augmentation funds that the commission expects to receive for repair of (1) storm damaged roads (2) previously approved, underfunded regional transportation projects and (3) other new regional transportation project proposals.

SCCRTC staff has called upon project sponsors to submit draft project study reports for eligible non-storm damage transportation projects that they wish to have considered for 1998 STIP Augmentation **funding**. SCCRTC staff is recommending that up to \$3,810,000 be set aside for storm damage projects previously submitted by the County and the cities as the top priority for these **funds**. This leaves \$5,033,000 to be distributed between the second highest priority category, "previously approved, underfunded regional transportation projects," which includes Graham Hill Road and the final category, new regional project proposals,

In our discussions with SCCRTC staff, it appears that dividing the Graham Hill Road project into two phases, as herein described, would best serve the current **funding** allocation process (approved at \$1,200,000) necessary to obtain approval of the revised project scope (Phase I) from the California Transportation Commission (CTC) this spring. Pending your Board's approval of this revised route concept, Phase I would be considered by the SCCRTC on March 2, 1999, and if approved, submitted for CTC review and **funding** authorization on March 29, 1999. This will then allow Public Works to initiate reimbursable environmental and design engineering of the combined two-phase project concept now rather than waiting until they adopt the new STIP Augmentation program later this year.

The County's application for the second phase of the project from 1998 STIP Augmentation funds is tentatively scheduled to be reviewed by the SCCRTC in April to allow for program approval in June, prior to budget hearings. If successful, both funding sources and phases would be combined and bid as a single improvement project to be built over two construction seasons, between May 2001 and October 2002. Otherwise we would suggest proceeding with the initial project phase according to the same schedule and pursuing other sources of funding to allow completion of the proposed second phase' at a later date.

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

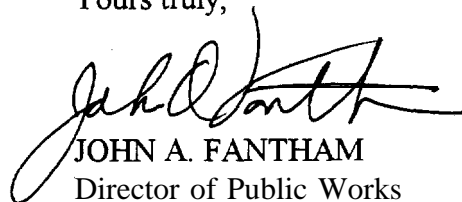
1. Accept and file this report and authorize the Director of Public Works to submit the Graham Hill Road Improvement Project Route Concept Revision: Phases I and II to both the Santa Cruz County Regional Transportation Commission and the California Transportation Commission for priority consideration for 1998 STIP Augmentation funds.

SANTA CRUZ COUNTY BOARD OF SUPERVISORS

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- 2, Direct Public Works to return to the Board on or before April 13, 1999, with a list of other possible regional road project proposals for application to the Santa Cruz County Regional Transportation Commission for funding under the 1998 STIP Augmentation selection process.

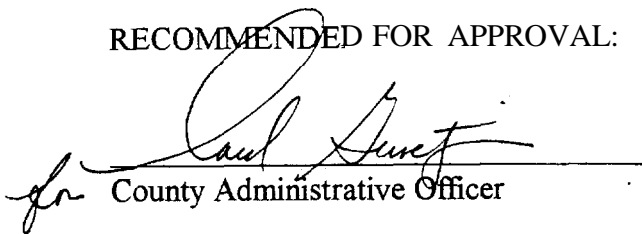
Yours truly,

  
 JOHN A. FANTHAM  
 Director of Public Works

TLB:mg

Attachments

RECOMMENDED FOR APPROVAL:

  
 County Administrative Officer

copy to: Public Works  
 Santa Cruz County Regional Transportation Commission

# Graham Hill Road Improvement Project - Phase I

Roaring Camp toward Probation Center (0.64 Miles South)

Project Nomination Sheet (1 of 3)

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## SEE ATTACHED MAP OF PROJECT

### Transportation Problem

Graham Hill Road is the main traffic corridor between the City of Santa Cruz and the township of Felton. The existing average daily traffic volume (ADT) on Graham Hill Road is 13,000 to 15,000 vehicles per day (projected ADT in 2010 @ 18,000). The existing road is a standard county two lane arterial with a general travel width of 12 feet with little or no continuous shoulder for pedestrians, bike travel or vehicle recovery. From the County Probation Center north toward Roaring Camp Road the roadway narrows with limited drainage improvements. This drainage problem has resulted in deep roadside ditches near the edge of the vehicle lane. The narrow road condition has resulted in numerous traffic problems as well as some accidents.

### Problem Scope

The Graham Hill Road Improvement Project, Phase II, allows for widening the road from Roaring Camp approximately 0.64 miles toward Santa Cruz. Work is to conform to the original pavement and striping at the end of the slow vehicle lane (0.40 miles before the County Probation Center). The improvements include bike lanes, left turn refuge areas, road reconstruction and pavement profile match, and storm drainage improvements. This will require removal of a number of trees and adjustments to the existing contiguous road slopes and to exiting residential access to allow for acceptable vehicle entrance standards. The cost estimate for this phase of the project is \$1,200,000, including design, right-of-way, and construction. This cost includes \$200,000 in local match funding.

## PROJECT FUNDING AND SCHEDULE

<b>Project Component Costs (\$000):</b>	<b>STIP \$</b>	<b>Local \$</b>	<b>Total \$</b>
Environmental	80	20	100
Design Engineering	100	25	125
Right of Way	80	20	100
<u>Construction (Incl. Overhead)</u>	<u>740</u>	<u>135</u>	<u>875</u>
Total	1000	200	1200

## Graham Hill Road Improvement Project - Phase I

Roaring Camp toward Probation Center (0.64 Miles South)

Project Nomination Sheet (2 of 3)

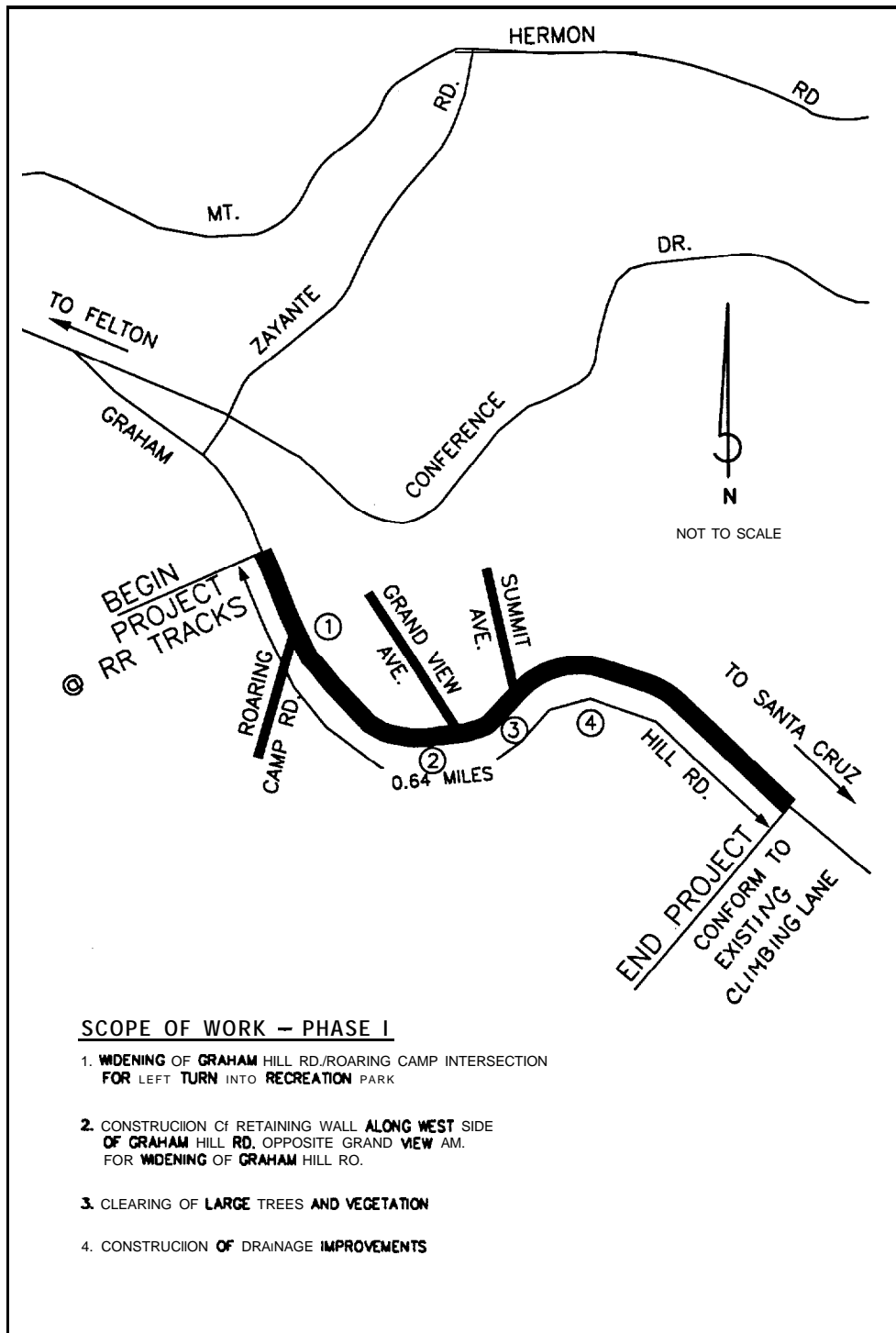
### Proposed Schedule:

Start Environmental & Preliminary Design Studies	April-99
Draft Environmental Document	Dec.-99
Final Environmental Document	April-2000
Begin Design Engineering	April-2000
Plans, Specs, & Estimates (draft)	Aug.-2000
Start R/W Acquisition	Sept.-2000
R/W Certification	April-2001
Ready to Advertise	April-2001
Start Construction (award)	Jun-2001
Project Completion (open for use)	Oct.-2002*

\*Project may require 2 const. seasons.

### PROJECT DESIGN AND MANAGEMENT

The County of Santa Cruz Department of Public Works is responsible for the design and management of the Graham Hill Road Improvement Project under the direction of John A. Fantham, the Director of Public Works, (831-454-2160). The Department's office is located in the County Governmental Center at 701 Ocean Street, Room 410, Santa Cruz, California, 95060. This Project Report was prepared by Bill Williamson, Senior Civil Engineer (408-454-2807).



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GRAHAM HILL ROAD  
IMPROVEMENT PROJECT - PHASE I

# Graham Hill Road Improvement Project - Phase II

Roaring Camp toward Probation Center (0.64 Miles South)

Project Nomination Sheet (1 of 3)

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## SEE ATTACHED MAP OF PROJECT

### Transportation Problem

Graham Hill Road is the main traffic corridor between the City of Santa Cruz and the township of Felton. The existing average daily traffic volume (ADT) on Graham Hill Road is 13,000 to 15,000 vehicles per day (projected ADT in 2010 @ 18,000). The existing road is a standard county two lane arterial with a general travel width of 12 feet with little or no continuous shoulder for pedestrians, bike travel or vehicle recovery. From the County Probation Center north toward Roaring Camp Road the roadway narrows with limited drainage improvements. This drainage problem has resulted in deep roadside ditches near the edge of the vehicle lane. The narrow road condition has resulted in numerous traffic problems as well as some accidents.

### Problem Scope

The Graham Hill Road Improvement Project, Phase II, allows for widening the road from Roaring Camp approximately 0.64 miles toward Santa Cruz. Work is to conform to the original pavement and striping at the end of the climbing lane (0.40 miles before the County Probation Center). The improvements include bike lanes, left turn refuge areas, road reconstruction and pavement profile match, and storm drainage improvements. This will require adjustments to the existing contiguous road slopes and to exiting residential access to allow for acceptable vehicle entrance standards. The cost estimate for this phase of the project is \$1,500,000, including design, right-of-way, and construction.

## PROJECT FUNDING AND SCHEDULE

<b>Project Component Costs (\$000):</b>	<b>STIP \$</b>	<b>Local \$</b>	<b>Total \$</b>
Environmental	<b>100</b>	<b>0</b>	<b>100</b>
Design Engineering	125	0	125
Right of Way	100	0	100
<u>Construction (Incl. Overhead)</u>	<u>1.175</u>	<u>0</u>	<u>1.175</u>
<b>Total</b>	<b>1,500</b>	<b>0</b>	<b>1,500</b>

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**Proposed Schedule:**

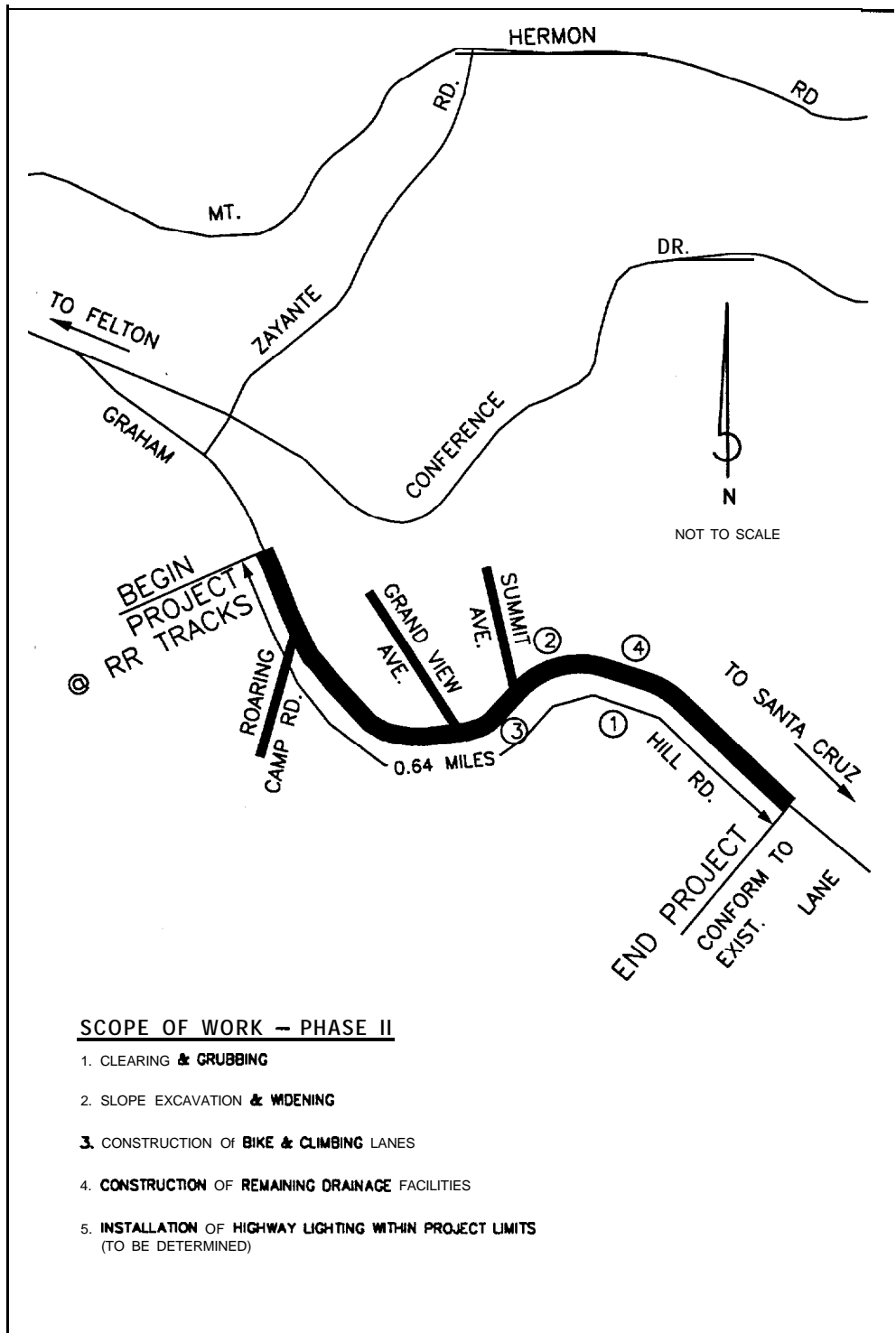
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GRAHAM HILL ROAD  
IMPROVEMENT PROJECT – PHASE II