

FINAL

AUG 19 1985

SUMMARY
ROUTE CONCEPT REPORT
ROUTE 236
SCR 0.00 - SCR 17.72

This report defines the concept for improvement of Route 236 in District 4, for a 20-year planning period (1985-2005).

ROUTE CONCEPT

Segment A: Jct Rte 9 south to Governors Camp PM SCR 0.00 to 9.32
2-Lane Conventional C-35

Segment B: Governors Camp to Jct Rte 9 north PM SCR 9.32 to 17.72
2-Lane Conventional B-45

CONCEPT RATIONALE

Route 236 is primarily used as an access to Big Basin Redwoods State Park. This route is the only major road leading into the park.

AREAS OF CONCERN

This two lane conventional road has short radius curves, steep embankments and no shoulders or pull out areas. Due to heavy winter storms (1981-1983), the route has received damage from mud slides, flooding and embankment erosion.

PROBLEM LOCATION AREAS

PM 0.0 to 2.5 Roadway in poor condition
PM 3.7 to 17.0 Roadway in poor condition

IMPROVEMENTS

A 1.2 million dollar roadway rehabilitation project is proposed for the 1985/86 F.Y. from Jamison Creek Road to Governors Camp (P.M. 2.7 to 9.3).

ROUTE CONCEPT REPORT

ROUTE 236

SCR 0.00 - SCR 17.72

Route Description

Route 236 is approximately 18 miles long. The entire route is located within Santa Cruz County, and the beautiful Santa Cruz Mountains. Route 236 is utilized as a recreational access to Big Basin Redwoods State Park. The section from the Route 236 south/Route 9 junction to China Grade Road receives significant residential traffic. This route is in the state scenic highway system.

The legislative description is as follows:

"Route 236 is from Route 9 near Boulder Creek to Route 9 near Waterman Gap, via Governors Camp in Big Basin Redwoods State Park."

Purpose of Route

Route 236 is primarily a recreational route for campers travelling to Big Basin Redwoods State Park.

Project Report

Caltrans has recently completed a roadway rehabilitation project report on Route 236. The project limits were from Jamison Creek Road to Governors Camp in Big Basin State Park (P.M. 2.7 to 9.3).

The proposed work includes excavation of localized failed area sand backfilling with AC, cleaning and sealing cracks, relining or replacing damaged culverts as necessary, overlaying existing roadway with AC and replacing guardrails to meet current Caltrans standards. The current estimated cost of construction is 1.2 million dollars. The proposed construction year is 1985/86 F.Y.

Segment A: Jct Rte 9 south to Governors Camp (SCR PM 0.00 to 9.32)

This segment begins at the junction of Route 9 south near Boulder Creek and ends at Governors Camp. The route is a two lane conventional highway with no shoulders. The terrain is rolling to mountainous with a 3% to 6% grade.

During the summer weekends congestion occurs at the Route 236 south and Route 9 junction; in the community of Boulder Creek.

At the present time the Santa Cruz Metropolitan Transit District operates two bus routes along Route 236, Routes 35 and 37. The 1982 Annual Average Daily Traffic (AADT) ranges from 6,000 at the junction of Route 9 south to 900 at Governors Camp. The northbound AM peak hour volumes range from 600 to 200, the southbound AM peak hour volumes range from 400 to 100. The Volume to Capacity ratio (V/C) is .48 with a level of service B-45.

The 1995 (2005) AADT ranges from 7,000 (8,000) at the junction of Route 9 south to 2,000 (3,000) at Governors Camp. The AM peak hour volumes for 1995 in the northbound direction range from 600 to 200, the southbound AM volumes range from 420 to 300. The Demand to Capacity ratio (D/C) for the year 1995 is .54 with a Level of Service (LOS) of B-40. The D/C for the year 2005 is .60 with an LOS of C-35.

From the period of January 1, 1981 to December 31, 1983 there were a total of 116 accidents. There were 99 injuries and 3 fatalities. The accident rate is 4.79 accidents per MVM (Million Vehicle Miles), the state wide average is 3.26 accidents per MVM. The fatality rate for this segment is .104 accidents per MVM, the statewide average is .092 accidents per MVM.

There are two roadway reconstruction projects programmed into the 1984 STIP. One of the projects is from the junction of Route 9 south to Ridge Drive (PM 0.0 to 1.4), the other reconstruction project is from north of Jamison Creek to Governors Camp (PM 3.0 to 9.3).

The concept is to maintain the present 2-lane facility with no improvements.

Segment B: Governors Camp to Jct Rte 9 north (SCR PM 9.32 to 17.72)

This segment runs from Governors Camp to the junction of Route 9 north. There are 2-lanes in each direction and no shoulders. This segment of Route 236 is entirely on state park land.

The only transit service available is the Santa Cruz Metropolitan Transit District route 37 which goes as far as the state park.

The 1982 AADT volumes for this segment ranges from 800 at the junction of Route 9 north to 700 north of Governors Camp. The northbound AM peak hour volume is 100, the southbound AM peak hour volumes range from 80 to 70. The V/C ratio is .12 with a level of service A-50.

The AADT for 1995 ranges from 1,500 at the junction of route 9 north to 1,400 north of Governors Camp. The northbound AM peak hour volumes for 1995 range from 200 to 100, the southbound AM peak hour volumes range from 170 to 120 vehicles.

The 2005 AADT for this segment ranges from 2,000 at the junction of Route 9 north to 1,800 at Governors Camp. The northbound AM peak hour volumes for 2005 range from 170 to 120 vehicles, the southbound AM peak hour volume ranges from 250 to 190 vehicles.

The 1995 V/C ratio is .18 with a level of service A-50. The 2005 V/C ratio is .20 with a LOS of B-45.

A total of 10 accidents occurred on this segment from December 31, 1981 to January 1, 1983. There were 10 people injured and no deaths. The total accident rate is 2.29 accidents per MVM, the statewide average is 4.16 accidents per MVM. The fatality rate is .000 accidents per MVM, the statewide average is .102 accidents per MVM.

The route concept is to maintain the present two lane facility throughout the entire segment with no improvements.