Project Title	*Agmt./Task No.*	*Item No.*	*Agency Bgt. No.*
SPR-3(098) Simulation Software for Constructability Analysis	**GCA2103-02**	**00-946**	**18480-0013**

Research Agency	*Start Date*	*Estimated Completion*	*Revised Completion*
University of California Berkeley	**10/1/00**	**12/31/01**	**1/31/08**

Principal Investigator(s)	*Technical Contact*
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Funding Source	*Schedule Status*	
WA, CA, TX, MN	☐ On schedule ☒ On revised schedule	☐ Ahead of schedule ☐ Behind schedule

Original Estimated Cost	*Revised Cost*	*% Funds Expended*	*% Work Completed*
$196,795	**$614,399**	**40%**	**50%**

Objective
Develop construction analysis software that can consider several pavement design options along with construction scheduling, resource constraints, traffic management, and user-delays.

Project Progress:

The four states of the State Pavement Technology Consortium (SPTC) agreed to produce versions 1.5 and 2.0, which includes a User Manual and additional training as needed. Version 1.5 includes enhancements to version 1.0 (includes improving the user-friendliness and the use of generic terminology), addition of more options into the rehabilitation schemes (i.e. mill and fill, continuously reinforced concrete pavement (CRCP), dowel bar retrofit (DBR)), and includes additional analysis techniques. Version 2.0 would add traffic and cost analysis modules and a contracting schedule baseline.

Version 1.5a is available and work is continuing on Version 1.5b. Refer to the following website for updates: http://www.dot.ca.gov/research/roadway/ca4prs/.

Training has taken place in California (Caltrans) for Version 1.5a and has been well-received. EB Lee will contact the other three states shortly to schedule training.

New Period Proposed Activity:

Continue work on Version 1.5b and perform training as needed – specifically in MN, TX, and WA.

Also, a Traffic Modeling Workshop is to take place on March 20-21, 2007 in Sacramento, CA. The intent of this workshop is to identify opportunities for advancing the use of construction simulation and traffic modeling applications for determining optimal construction strategies that minimize agency and user costs.