

**REAL-TIME ADVANCED WARNING AND TRAFFIC
CONTROL SYSTEMS FOR WORK ZONES: EXAMINATION
OF REQUIREMENTS AND ISSUES**

by

Jose V. Thommana

Project and report submitted to the Faculty of the
Virginia Polytechnic Institute and State University
in partial fulfillment of the requirements for the degree of

Master of Science

in

Civil Engineering

APPROVED:

Dr. R. Sivanandan, Chair

Dr. Antonio A. Trani

Mr. Robert W. Alexander

May, 1997

Blacksburg, Virginia

Key Words: Work Zone, Real-Time Warning Systems, Requirements, Evaluation