Project Title: C-06-34: Coaxial Cable Sensors for Crack Detection in Bridge Structures

PIN: R020.85.881
Responsible Unit: Office of Structures, Engineering Division
Project Manager: Luft, Norbert

Project Goal:
Multi-phased, multi-year project to develop and implement a condition-based inspection strategy on transportation structures and roadways, utilizing a structural health monitoring system consisting of sensors, data acquisition, microprocessors, data management and wireless transmission. Field validations will be based on coaxial cable sensors and an Electrical Time-Domain Reflectometry (EDTR) instrument that has been developed by the University of Missouri team over the past five years.

Actions Proposed:
Only an initial feasibility study is currently being funded. Pending good technical progress, additional funding may be pursued through additional proposals to future NYS solicitations.

Initial tasks include strategic team formation, design and fabrication of the coaxial cable.

Anticipated Work Products and Accomplishments:
• Monthly Progress Reports
• Final Report

Proposed Budget: $50,000