Project Title: C-08-21: Modeling Unbound Pavement Material
PIN: R021.43.881
Responsible Unit: Engineering / Technical Services, Geotechnical Engineering
Project Manager: Hossain, M. Makbul

Project Goal:
To expand the interface of the models of seasonal change in unbound (sub-base and sub-grade) layer moduli for use in pavement design. Information gained from the Phase I study will be used to focus the research. The goals are similar to those from the Phase I study.

A. Revise and update the matrix of the soil and climatic zones important to pavement design in NYS.
B. Using a practical set of evaluation tests at four sites; determine effective resilient moduli of sub-grade for use in the CPDM.
C. Using practical set of evaluation tests at the selected sites; determine predictive seasonal models of resilient modulus of unbound materials to be used in mechanistically-based new and reconstructed pavement design.
D. Provide software tools and training for NYSDOT engineers to facilitate the implementation of this research.

Actions Proposed:
1. Site selection and field testing,
2. Data analysis and modeling,
3. GIS Mapping review and development,
4. Software development and Training and

Anticipated Work Products and Accomplishments:
1. Seasonal models for NYS sub-base and sub-grade soils.
2. Software for data analysis and pavement design.

Proposed Budget: $215,500