
PAVEMENT ENGINEERING SERVICES

Pavement Evaluation and Design

STE provides comprehensive pavement evaluation services using conventional and state-of-the-art methods to determine the existing pavement condition, causes of deterioration, and future pavement performance. STE's pavement design services include new pavements as well as rehabilitation of existing pavements. STE provides high quality and cost effective designs for asphalt and concrete pavements. STE's goal is to design a pavement that lasts and meets your transportation needs.

Pavement Management System (PMS)

STE develops PMS for public and private sector clients all over the world. STE has collected pavement condition data, updated existing systems, and maintained systems for various agencies. STE has also developed systems from scratch for clients with small pavement facilities to large agencies with hundreds of miles of pavement. STE provides pavement preservation strategies for maintenance and rehabilitation of your roadway network.

Non-Destructive Evaluation

STE professionals are experts in evaluating pavement layers using non-destructive test data. STE professionals have extensive experience using equipment such as falling weight deflectometer (FWD), ground penetration radar (GPR), and magnetic imaging technology (MIT). STE professionals are nationally recognized leaders in pavement and materials research with recent publications by National Cooperative Highway Research Program (NCHRP) and committee memberships with Transportation Research Board (TRB).

Specifications & Standards

STE offers services in evaluation of acceptance criteria, construction quality control, incentive/disincentive pay factors and other performance related specifications. STE has developed specifications and standards for several agencies in the United States and abroad. STE's participation in national associations provides key insight into current standards and research.

Unique Testing Solutions

STE identifies "unique" testing solutions to mitigate construction issues using the state-of-the-art laboratory equipment including SHRP shear testers, servo-hydraulic triaxial equipment and rut testers. STE can also provide information about the use of new materials and techniques including geotextiles, modified asphalt binders, PCC modifiers, soil stabilizers, Superpave, and microsurfacing.

New Technology Transfer

STE provides consulting services on the use of new materials and techniques including geotextiles, asphalt modifiers, PCC additives, soil stabilizers, and new state-of-the-art mix design procedures.