



S. Q. Consultants, Inc



CASE STUDY: STRATEGIC DESIGN SOLUTION AT WASHINGTON DULLES AIRPORT

PROJECT BACKGROUND

Repair damaged concrete ramp panels at the Signature air services leased property.

Perform a site survey and drawings showing the ramp panels and the damage done to each panel graphically.

Show the repair method recommended for each damaged area so the contractor can properly price the project for Signature.

COMPLEX ENGINEERING CHALLENGES

Repairing damaged concrete ramp panels involves several steps and considerations to ensure the longevity and safety of the structure. First step was to conduct a thorough condition assessment to identify the extent and cause of the damage. This included visual inspections, non-destructive methods for analysis. Damage to concrete ramp panels resulted from various factors such as reinforcement corrosion, structural loading, chemical attacks (like sulfate or acid attack) and physical impacts.

CORE COMPETENCIES FOR THE PROJECT

Structural inspection/Evaluation/Engineering

Detailed Design and Coordination

Construction and Project Management

OUTCOME

Engineering Evaluation and Solutions for Challenging Improvements

Design Development for Construction

Ramp Panels repaired with minimal disruption to traffic and provided a long-lasting solution

Project Completed on Time with our Teamwork and Support

