AI Engineers, Inc.

An Integrated Approach to Infrastructure Solutions

Sikorsky Aircraft Corporation – Stratford Facility Access Study & Design

Stratford, CT

Location
Stratford, CT

Owner
Sikorsky Aircraft Corporation

Duration
On-Going

Prime/Sub
Prime

Construction Cost
$6.5 million

Project Description:

With significant congestion on the facility roadways and the Route 110 and Route 15 Interchange ramps, AI Engineers, Inc. was charged with developing options to improve traffic flow at this facility. Work included topographic survey, obtaining turning peak-hour movement counts necessary for traffic analysis and design. AI developed two strategies for improving traffic operations. Strategy A separated truck and visitor traffic. Strategy B relocated and improved the South Gate entrance and parking.

Strategy B option 2, "the South Gate relocation" approach, was the final selected alternative and a separate truck delivery access was dropped. AI prepared the preliminary and final design for the Route 110 reconstruction, driveway relocation and twenty-five acres of site improvements. A new design for the 2,400 space parking areas to the south of the facility was developed. This design included significant conservation measures such as high efficiency LED lighting and storm water reuse for on-site irrigation. Permit applications were prepared for the Town of Stratford Planning and Conservation Commissions, CTDEP Office of Long Island South Programs Site Plan Review and the State Traffic Commission. Although a private project, the contract documents were prepared using the Connecticut Department of Transportation Form 816 specifications and standards.

Salient Features

- Traffic counts and Study for STC Permit
- RT110/ South Gate intersection redesign
- Signal Design
- Storm Water Management Plan
- Storm Water Retention for Irrigation
- Utility Design
- Parking Area redesign
- High Efficiency LED Site Lighting
- Permitting

Sikorsky Aircraft Corporation – Stratford Facility Access Study & Design (Cont.)
Stratford, CT

Project Description:

B) The second strategy was to improve the South Gate Facility entrance. Two options were developed and analyzed:
   1. Maintain the current location of the gate but increase the number of entrance and exit lanes, add lanes on Route 110 and reroute some portion of the facility employees to the North Gate;
   2. Relocate the location of the South Gate to develop a 4-way intersection at Oronoque Lane with Route 110 thereby eliminating a signal between the Route 15 southbound ramps and Oronoque Lane. For all of the various options, a traffic analysis was performed to determine LOS of roadway or signal, alternate alignment analysis, environmental impact determination and cost benefit analysis.