

Hardy Toll Road AET Conversion (Houston)

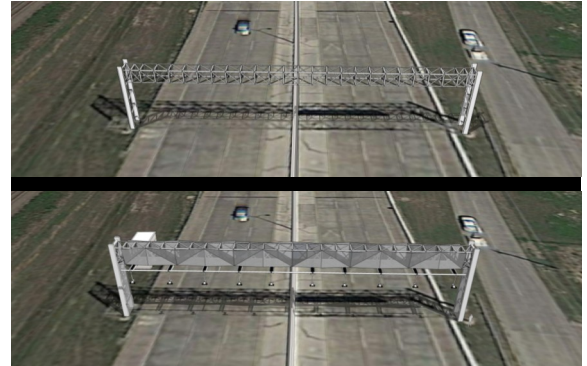
Harris County Toll Road Authority

Construction in progress
\$26 Million (Construction cost)

Project Description

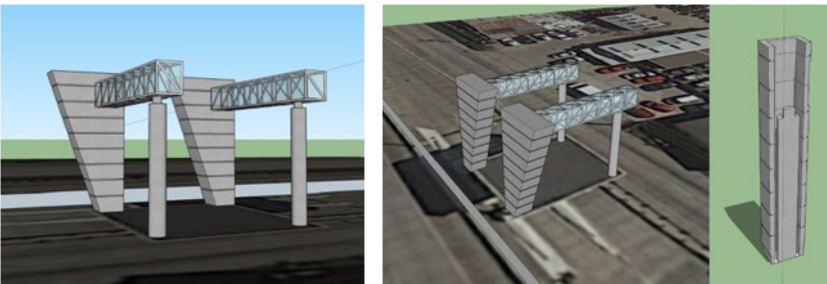
ISE provided concept through final design of existing toll plaza conversion to an all electronic toll collection system. Architectural concepts were developed for mainlanes and ramps taking into consideration costs and constructability.

ISE also provided AET design services for thirteen ramps and three mainlane plazas. Major components of construction included new continuously-reinforced concrete pavement, gantry structure design, IT building design, and electronic toll collection system infrastructure design. Infrastructure design consisted of pavement and grading plans, complex construction sequencing and traffic control plans, as well as loops, conduits, power communication, data, vendor required equipment locations, toll plaza and facilities layouts, structural and architectural design, and HVAC design.

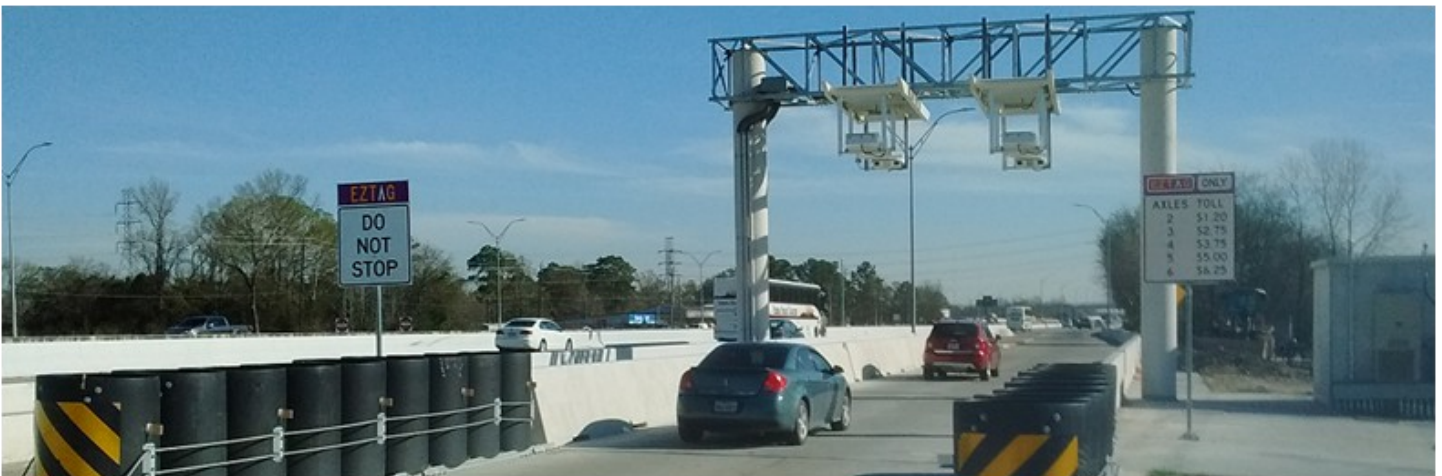
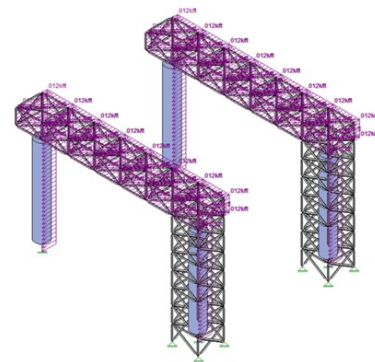


Conceptual design of mainlane gantry structure

Conceptual models of Ramp Gantry Structures



3-D Structural models of Ramp Gantry Structures



Hardy Toll Road constructed ramp