



Denver International Airport (DEN) Great Hall Project



Client Name: Ferrovial Aeroportoes
Date Started: August 2015

Date Completed: December 2017

In Summer 2015, Ferrovial Aeroportoes invited TransSolutions to work with their team to prepare a winning submittal to Denver International Airport's (DEN) Request for Qualifications to reimagine the layout and use of the 1.5-million-square-foot Jeppesen Terminal. To fund and manage this project, DEN planned to use a P3 model (Public/Private Partnership) with the Great Hall Partners with the goal to control costs, expedite construction, and lower financial risk to the airport. The Ferrovial Aeroportoes Team was one of four short-listed to bid on a final Request for Proposal.

The Ferrovial Team's bid was ultimately selected to work as part of the Great Hall Partners because of their proven track record working on similar airport projects and their understanding of airport operations and maintenance activities. The Denver City Council approved the final 34-year Development Agreement with the Great Hall Partners in August 2017.

Throughout the engagement, TransSolutions assisted with the evaluation of the check-in hall and departing passengers processing areas in the Jeppesen Terminal for the mid-term and long-term future planning horizons. TransSolutions performed detailed computer simulation analyses of the check-in lobby, security screening checkpoint (SSCP), and the Jeppesen Terminal AGTS train station platform serving departing passengers. The simulation allowed analyses to take into account future facility configuration and demand, as well as the inherent variability in passenger behavior, characteristics, and processing. An animation of passengers' flow through the processes was also developed.

During design development, TransSolutions worked with project stakeholders and performed numerous sensitivity analyses – completed in a short time period – to refine the solution and meet critical business needs. Studies also analyzed vertical transition queues in the Great Hall and measured congestion within concourses to and from the train station.

Construction on the Terminal is expected to begin in Summer 2018 and continue for four years.