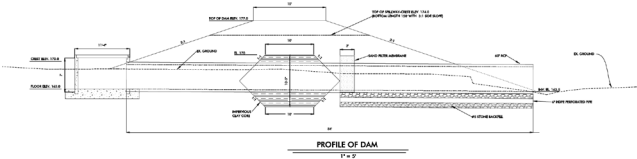


PITTS LAKE RECONSTRUCTION PROJECT | Columbia Metropolitan Airport, Columbia, SC

- ✓ Drafting Services

This project included repairing the Pitts Lake Dam on the Columbia Metropolitan Airport property. The scope included preparation of construction drawings and documents for the reconstruction of the aging dam. The engineering firm provided OLH with base mapping and field surveys to prepare the site plan and construction drawings. OLH provided graphics/CADD drafting services, using AutoCAD, to the lead engineering firm.



TAXIWAY Y & F REHAB | Columbia Metropolitan Airport, Columbia, SC

- ✓ Construction Engineering & Inspection

The base bid of this project consisted of the rehabilitation of Taxiways Y and F as well as various other taxiways, which included a bituminous overlay and related work consisting of milling, isolated areas of reconstruction, single surface treatment, and pavement marking. OLH provided Resident Construction Inspection services during construction to ensure the work conformed to the requirements of the contract documents and specifications and oversee construction quality.

RUNWAY 5 REHABILITATION | Columbia Metropolitan Airport, Columbia, SC

- ✓ Cost Estimating
- ✓ Construction Engineering & Inspection

This project included the evaluation of the existing runway safety areas, pavements and subsurface conditions, rehabilitating the existing pavements, and installation of new runway edge lights. The scope of this project also included upgrades to the airfield lighting circuitry and to the lighting vault. OLH provided all of the cost estimating based on 30%, 60%, 95%, and final construction plan documents for all phases. OLH also provided Resident Project Representative (RPR) services on Phase 1 and 3 to ensure the work conformed to the requirements of the contract documents and specifications.

TERMINAL REDEVELOPMENT AND IMPROVEMENT PROJECT / PROGRAM MANAGEMENT | Charleston International Airport, Charleston, SC

- ✓ CPM Scheduling
- ✓ CPM Schedule Review
- ✓ Cost and Claims Analysis
- ✓ Cost Estimating
- ✓ Financial Management and Planning
- ✓ Program Controls
- ✓ Project Administration

The Authority engaged a qualified, experienced consultant team, which OLH was a member of, to provide the full range of Professional Program Management Support Services for the Terminal Redevelopment and Improvement Project to accommodate future growth and update the terminal facility at Charleston International Airport. The project included the expansion of concourses A and B, expansion of the baggage claim area, terminal renovations, and airside and landside improvements. OLH's services included CPM Scheduling; CPM Schedule Review; Cost Analysis, Claims Analysis and Estimating; Financial Management and Planning; Program Controls; and Project Administration.



BOEING | SC

- ✓ CPM Scheduling
- ✓ Cost Estimating

In early 2013, Boeing announced that an IT Center of Excellence and an Engineering Design Center would be established in South Carolina. As part of the engineering strategy, Boeing built a new facility in South Carolina to design and assemble the 737 MAX engine inlets. OLH was contracted by the Architect/Design firm that supports all of Boeing South Carolina to provide CPM Scheduling, development of the EVMS based on Boeing standards (ANSI-748C) for all design activities associated with the plant expansion, and EVM analysis and reporting twice a month. OLH's cost estimator developed the 30% and 45% design cost estimates for the expansion of its tow path and flight line — where finished jets are parked for engine and fuel testing before test flight — from seven stalls to 16. The project included new paint facilities.



TERMINAL CAPACITY ENHANCEMENT PROJECT | Myrtle Beach International Airport, Myrtle Beach, SC

- ✓ CPM Scheduling

The airport implemented a program called “MYR Terminal Capacity Enhancement Project” (TCEP) to expand the commercial terminal from 7 gates to 12 and included new parking facilities, a new and separate car rental building, and updates to the passenger terminal. OLH provided CPM schedule development and construction schedule reviews for all projects associated with this program.



NEW TERMINAL CONSTRUCTION AND PROGRAM MANAGEMENT | Augusta Regional Airport, Augusta, GA

- ✓ Construction Management/Supervision
- ✓ Program Management
- ✓ CPM Scheduling
- ✓ Cost Control

The Program consisted of the demolition, in phases, of the existing Airline Passenger Terminal building and the construction of a new Airline Passenger Terminal building. OLH provided overall program controls on this project. Efforts included developing and maintaining the integrated design and construction scheduling, reviewing contractor submitted schedules, cost estimating, and cost forecasting and project reporting. In addition, OLH provided construction management oversight and reporting, as well as overall project administration which included document control, change order tracking, and general administrative support.



SITE IMPROVEMENTS | Augusta Regional Airport, Augusta, GA

- ✓ Cost Estimating

Once the new Augusta Regional Airport terminal building was opened, additional funding and cost savings allowed for site improvements in front of the new terminal. These improvements included infrastructure (drainage and electrical); wayfinding signage; landscaping, tree planting, and irrigation; new rental car parking lot; new short-term parking lot and toll plaza; sidewalks; special systems (paging and security); and lighting improvements. OLH provided cost estimating based on 30%, 60%, 95%, and final construction plan documents.





CONSOLIDATED RENTAL AGENCY COMPLEX (CONRAC) | Hartsfield-Jackson Atlanta International Airport, Atlanta, GA

- ✓ CPM Scheduling
- ✓ Claims Analysis
- ✓ Cost Estimating
- ✓ Constructability Reviews
- ✓ Document Controls
- ✓ Construction Management/Supervision
- ✓ Project Administration
- ✓ Project Controls
- ✓ Project Engineering

Due to the increasing demands upon the existing on-airport car rental facility, the need for a consolidated rental car facility became necessary at the busiest airport in the United States. The new Consolidated Rental Car Facility (CONRAC) major projects included: site preparation and development mass grading; facility; and vehicle access route. OLH, as a subconsultant to the JV team, was responsible for CPM scheduling, claims analysis, cost estimating, construction management/supervision, constructability reviews, document controls, project administration, project controls, and project engineering.

CENTRAL PASSENGER TERMINAL PHASE I | THE ATRIUM | Hartsfield-Jackson Atlanta International Airport, Atlanta, GA

- ✓ CPM Scheduling
- ✓ Cost Estimating
- ✓ Project Controls
- ✓ Document Controls

The Central Passenger Terminal is a four-story, 225,000 square foot addition that features a mall-like atmosphere with retail and concession areas. Conference and office facilities are located on the third and fourth levels and a kitchen and loading areas on the first level. OLH provided overall project controls on this project. Efforts included developing and maintaining the integrated design and construction schedule, cost estimating, cost forecasting, and document management.

CENTRAL PASSENGER TERMINAL PHASE II | Hartsfield-Jackson Atlanta International Airport, Atlanta, GA

- ✓ Project Controls
- ✓ Construction Administration
- ✓ CPM Scheduling
- ✓ Cost Analysis, Claims Analysis and Estimating
- ✓ Value Engineering

The new central passenger terminal features a mall-like atmosphere with retail and concession areas on the second and passenger ticketing level. Conference and office facilities are located on the third and fourth levels and a kitchen and loading area on the first level. Phase II was an extension of the Phase I renovation and included all components of the terminal to increase capacity and quality to meet the demands of the busiest airport in the United States. OLH provided project controls services including scheduling, cost estimating, cost management and review, construction administration duties, and assisted in value engineering studies and proposals.

CENTRAL PASSENGER TERMINAL CONCESSIONS | Hartsfield-Jackson Atlanta International Airport, Atlanta, GA

- ✓ Document Controls
- ✓ Construction Administration

The project included extensive new construction and remodeling of 30 Airport concessions facilities in 4 concourses. Additionally, it included new construction of 17 concessions, demolition and build-back of fast food vendors and seating areas to improve appearance and functionality. OLH provided document coordination and construction administration for the concessions projects within the Atrium area of the Central Passenger Terminal.

TAXIWAYS 9 L AND M DESIGN | Hartsfield-Jackson Atlanta International Airport, Atlanta, GA

- ✓ Integrated Cost Loading Scheduling
- ✓ Cost Estimating

The purpose of the Airfield Pavement Replacement Project - 2009 was to replace pavement along Taxiway 'L' and 'M' from Taxiway '1' to the west end of Runway '9L' and Taxiway 'L' from Ramp 3 to Ramp 5. OLH was a subconsultant on this team and provided cost estimating and integrated cost loaded scheduling services.

TERMINAL EMBANKMENT AND UTILITIES RELOCATION - PHASE 3 DESIGN | Hartsfield-Jackson Atlanta International Airport, Atlanta, GA

- ✓ Integrated Cost Loading Scheduling

This project involved the preparation of a design/construction package containing plans and specifications to serve as pricing and construction documents to allow the Construction Manager at Risk (CMR) to solicit bids from construction contractors to complete the Embankment and Utilities Relocation – Phase 3. OLH was responsible for developing and maintaining the resources cost loaded CPM schedule for the design team. The schedule included the needed interfaces with the architect, CMR, and Airport Program Manager and included all control points for interfacing and coordinating this project with the projects that were underway in the areas where Phase 3 would be built.



CONCOURSE E | Hartsfield-Jackson Atlanta International Airport, Atlanta, GA

- ✓ Project Controls
- ✓ Value Engineering
- ✓ Document Controls
- ✓ Construction Administration

Concourse E allows the simultaneous operation of 24 wide-body aircrafts. The underground passenger transit system, extended by 1,000 feet, added a new station below the concourse. OLH was a key member of the Value Engineering team that recommended changes that resulted in substantial cost savings and construction time improvements. OLH provided Construction Administration services on this project including coordinating meetings, preparing construction status reports, and providing document control and project controls.

PROGRAM CONDITION TEAM | Gulfport-Biloxi Airport, Gulfport, MS

- ✓ CPM Scheduling
- ✓ Cost Control
- ✓ Cost Estimating
- ✓ Project Controls - Implementation, Methods, Procedures
- ✓ Program Management
- ✓ Construction Management/Supervision
- ✓ Management Information Systems Integration
- ✓ Contract Specification Development

Anticipating the struggles with managing rapid growth, repairs to damaged facilities and multiple projects in design and construction, the GBIA Authority contracted with a Program Manager Team, which OLH was a member of, to perform Program Management Services for 29 projects at a total Program value of \$162 million. OLH provided CPM Scheduling; Cost Control; Cost Estimating; Project Controls - Implementation, Methods, Procedures; Program Management; Construction Management/Supervision; Management Information Systems Integration; and Contract Specification Development services.



TRANSPORTATION ENTERPRISE ACTIVITY MANAGEMENT SYSTEM FOR AIRPORTS (TEAMS AIRPORT) | McGhee Tyson Airport, Alcoa, TN

- ✓ Software Sales
- ✓ Software Development

McGhee Tyson Airport is the premier air facility in East Tennessee. OLH developed the TEAMS Airport software application which allows airport management to effectively manage a capital improvement program from the planning stage through close-out, ensuring that projects stay on time, within budget, and are properly funded.