

PROJECT SUMMARY

Project Name:

**Ft. Lauderdale Airport Expansion-Runway 9R-27L/
Site Preparation & NAVAIDS Project**

Owner:

Broward County, Aviation Department

Client:

Odebrecht - OCJV

Project Information:

Location: Broward County, FL

This \$791 million project consisted of improvements to and expansion of the 9R-27L runway located at the Fort Lauderdale-Hollywood International Airport. RADISE provided Construction Materials Testing and Quality Control (QC) services 24 hours a day, 6 days a week. RADISE established an on-site certified laboratory, and had 10 construction inspectors and support personnel on this project.

RADISE's scope of work entailed four main tasks: (1) soils testing for embankment, subgrade, base course and drainage components, (2) concrete monitoring and testing, (3) asphalt monitoring and testing and (4) vibration monitoring services.

Performed daily field testing of the embankment components and utility backfill soils. Coordinated the test program; made site visits and attended weekly progress meetings; and provided report preparation, review and submittals.



Performed QC field and laboratory testing for concrete elements including acquiring samples, performing field tests, performing tests including unconfined compressive strength (UCS) and beam tensile strength, storing the samples and documenting and reporting test results twice a week.



Provided CTQP certified technicians to monitor the temperature of the hot-mix asphalt and performed in-place density tests along the compacted asphalt layer to ensure that the specified density is achieved. Also performed asphalt cores and provided the associated reports. Services included the evaluation of ground vibration effects resulting from the ground improvement work so as to not impact adjacent existing buildings.

PROJECT ELEMENTS

- Expansion of the 9R-27L Runway
- Runway, 6000 feet long
- MSE Walls, 65 feet high
- Earthen Ramps, 50 feet high
- Approximately 140 Production Days/Nights for Sampling and Field Testing of the Earthwork Components



RADISE ROLE:

CONSTRUCTION MATERIALS TESTING

- Construction QC Testing Services
- Field Permeability Tests
- Laboratory Tests - Gradational Analysis, Moisture and Organic Content Tests, Atterberg Limits, Proctors, CBRs, UCS, Concrete Beams
- Field Testing and Inspection of Concrete and Asphalt
- Concrete Casting Yard and Asphalt Plant Inspection
- Soil Design Parameters for Slope Stabilization
- Vibration Monitoring Consulting