



NicNevol

Engineering Services



www.nicnevol.com

Moncrief Creek Bridge Replacement

Location: Jacksonville, FL (Duval County)

Owner: City of Jacksonville – Department of Public Works

Markets: Transportation, Bridge Construction, Materials Testing

Services: Construction Materials Testing (CMT), Field & Laboratory Testing, QA Support

Project Description

NicNevol Engineering Services was contracted to provide Construction Materials Testing (CMT) during the replacement of the Moncrief Creek Bridge in Jacksonville, FL.

The project scope involved removal of the existing bridge structure and construction of a new bridge with associated roadway approaches, utilities, and drainage. NicNevol's role was to perform field and laboratory testing of soils, aggregates, asphalt, and concrete to ensure compliance with project specifications, FDOT standards, and City of Jacksonville requirements.

NicNevol Responsibilities

- Performing field density tests on soil, aggregate, and asphalt.
- Sampling fresh concrete and conducting lab compressive strength tests.
- Obtaining asphalt cores and verifying compaction/density.
- Preparing daily field reports and materials certifications.
- Coordinating with contractor and City inspectors.
- Ensuring all materials met FDOT/ASTM/ACI requirements.



Project Highlights

- Client: City of Jacksonville – DPW.
- Bridge replacement with new structure, approaches, and drainage.
- Field & lab testing program included:
- Soil density tests (nuclear gauge).
- Concrete sampling and compressive strength testing.
- Asphalt coring and density verification.
- Structural fill and aggregate compaction.
- Compliance: FDOT, ASTM, and ACI standards.
- QA role: supporting contractor and City inspectors with daily reports and certifications.

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Delivering engineering expertise that supports safer, stronger infrastructure.

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