Design Services for Wiles Road
Broward County Project #104026
## THE CGA TEAM

<table>
<thead>
<tr>
<th>Firm</th>
<th>Services</th>
<th>Key Staff</th>
<th>CBE</th>
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</thead>
<tbody>
<tr>
<td>Calvin, Giordano &amp; Associates, Inc.</td>
<td>Roadway, Lighting, Landscape Architecture, Signalization, Drainage and Other Associated Improvements.</td>
<td>Jenna Martinetti, P.E.; Nicholas Mahon, P.E.; David Frodsham, P.E.; Eric Czernieievski, P.E.; Env SP; Sandra Lee, AICP CEP, LEED AP BC+D; Michael Conner, RLA; Robert Roush, PE; Steve Watts, PSM; Jon Cooper, P.E.</td>
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<tr>
<td>HBC Engineering Company</td>
<td>Utility Coordination and Signing &amp; Pavement Marking</td>
<td>Adebayo Coker, P.E.</td>
<td>CBE</td>
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<td>Florida Engineering &amp; Testing, Inc.</td>
<td>Environmental Engineering Support</td>
<td>Mark A. Mesiano, PE</td>
<td>CBE</td>
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<tr>
<td>Lakdas/Yohalem Engineering, Inc.</td>
<td>Structural Engineering</td>
<td>Lakdas Nanayakkara, P.E.</td>
<td>CBE</td>
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<td>Radise International, L.C.</td>
<td>Geotechnical Engineering</td>
<td>Gregory Stelmack, PE; Thomas Mullin, PE</td>
<td>CBE</td>
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<td>Aerial Cartographics of America (ACA), Inc.</td>
<td>Photogrammetry</td>
<td>Iarelis Hall, PSM</td>
<td>CBE</td>
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<tr>
<td>Dickey Consulting, Inc.</td>
<td>Public Involvement</td>
<td>Sheryl Dickey</td>
<td>CBE</td>
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CGA has a **21% CBE goal** for this project.
PROJECT MANAGER

• JENNA MARTINETTI, PE

• Over 13 years of engineering experience

• Started as a roadway designer

• Senior PM for roadway, stormwater, water, sewer, land development, and park design projects

• Experience includes FEMA grants, LAP/JPA and FDOT projects, and County Incentive Grant Projects

• Advanced Traffic Control Certification
TEAM EXPERIENCE

- FDOT Pre-qualified
- MPO/Complete Streets Experience:
  - Community Incentive Grant Program (CIGP) experience
    - Davie Rd Phase 1
    - College Avenue
    - Nova Drive
  - FDOT LAP projects
    - Davie Rd Ph. 2
    - Andrews Avenue
    - Tamarac Bike Lanes
  - Broward County Mast Arm Conversion - 35 Intersections Upgraded
PROJECT CHALLENGES

Widening reduces/eliminates swales and requires curb & gutter

- Key elements:
  - Analyze existing profile to confirm 0.3% min. longitudinal slope
  - Overbuild/reconstruct where needed
  - Reduce existing lane widths
  - Install exfiltration trench for water quality

- Similar Experience:
  - Davie Rd Ph. 1 – widened for new travel and bike lane, added curb & gutter, reconstruction and overbuild, modifications to the drainage system
PROJECT CHALLENGES

Widening encroaches on existing trees

- Key elements:
  - Obtain tree survey
  - Review horizontal clearance
  - Coordination with landscape architect for impact to trees, need for root barriers
  - Site triangles for side streets to be verified

- Similar Experience:
  - Davie Rd Ph. 1 – widening required relocation of over 45 large royal palms within the R/W as well as removal, replacement or relocation of other species of trees.
  - Davie Rd Ph. 2 – root barriers had to be installed where trees were adjacent to new sidewalk
  - Nova Dr – trees within the swales utilized decorative retaining walls.
Widening encroaches on side street and development median noses

- Key elements:
  - Verify R/W information
  - Minimize impacts
  - Modify where needed
  - Coordinate with the individual condo associations as part of public outreach
  - Verify site triangles for sides streets

- Similar Experience:
  - Davie Rd Ph. 1 – Driveways were modified to accommodate widening impacts and bring to ADA compliance
PROJECT CHALLENGES

Widening impacts existing irrigation and existing bus stops

- Key elements:
  - Specify proper maintenance or repairs to the existing irrigation system, including notes regarding private systems encountered during construction
  - Coordinate with BCT to meet requirements for 8’ wide pad
  - Coordinate any future bus stop, shelter or pad upgrades.

- Similar Experience:
  - Davie Rd Ph. 1 – multiple irrigation systems existed requiring replacement. Bid documents included a line item to pay for this. BCT coordination allowed for removing sidewalk from the project to avoid BCT damaging and replacing it months later with the future shelter/pad project.
Lighting location

- Key elements:
  - Obtain available safety study
  - Review horizontal clearance of existing poles
  - Photometric analysis taking existing trees and new lane into account
  - Coordination with FPL for additional hardening projects
  - Potential for pedestrian scale lighting

- Similar Experience:
  - Davie Rd Ph. 1 & 2 – existing lighting was supplemented by proposed fixtures
  - SR 870/Commercial Blvd – areas around the intersections were upgrades to have lighting.
  - Andrews Ave – upgrading to LED
Existing conditions at the Coral Springs Nursery

- Key elements:
  - Coordinate early with City and owner to determine site needs and code requirements
  - Review grades for installation of valley gutter to maintain stormwater on public R/W

- Similar Experience:
  - Tamarac Bike Lanes – community club house parking requires modification due to bike lane widening. Parking is being relocated to a side street as a separate contract.
PROJECT CHALLENGES

Grade differential at R/W line

- Key elements:
  - Review areas where R/W is higher than adjacent private property
  - Review areas where adjacent property is higher.
  - Provide handrail or gravity wall where required
- Similar Experience:
  - SR 870 – gravity wall was required at the R/W line due to adjacent backyards being too low.
Overhead utility lines

- Key elements:
  - Early coordination with UAO’s, particularly FPL
  - Consider constructability, as well as final placement of mast arms and uprights near FPL

- Similar Experience:
  - SR 870 – FPL transmission and distribution surrounded and crossed the intersection. Transmission lines had to be de-energized for the installation of the new mast arms. Utility work schedules were provided as part of the bid documents.
PROJECT CHALLENGES

Right Turn Lane Impact

- Additional R/W not available at existing right turn lanes
- New turn lanes constructed where R/W available
- Coordination with Broward County and property owners

Drainage District Permitting

- Sunshine Water Control District
- North Springs Improvement District

Complete Streets/Bike Lane Buffers

- R/W may not be available throughout the corridor to provide the 2’ buffer the County prefers
- Striping buffer can be provided and meet the County’s 4’ minimum bike lane width
WHY the CGA TEAM?

- INTEGRATED APPROACH
  - Engage all stakeholders in the planning, design, and construction of the project.
  - Multiple Services in-house allowing for expedited design to meet the project schedule.
  - Experience on similar projects
  - Well defined QA/QC process
  - Clear and efficient communication.

- EXPERIENCE, PERFORMANCE & SATISFACTION