



John Carroll, Jr. PE

President, Chief Engineer
Twenty First Century Engineering

772.492.1850

xxijc@bellsouth.net

For 38 years, Mr. Carroll has directed all phases of an extensive diversity of engineering projects; from initial conceptual layout and reports, to design, construction, inspection, final certification and turnkey, to the client. Mr. Carroll's professional experience extends throughout the United States and into Arab countries, and includes all aspects of governmental, institutional, commercial, industrial, educational, residential, recreational, structural, and transportation engineering. Projects designed under his direction include large-scale master planning and final design documents for drainage, paving, sanitary sewer, potable water and highways. He has also performed local site development projects for both national and regional accounts.

Bachelor of Science
Civil Engineering
Georgia Institute of
Technology, 1977

Professional Registrations
P.E., Texas, 1982, 2006
#96255

P.E., Florida, 1989 #41610

Cert. Gen. Contractor,
Florida, 1989 #CGC049615

Cert. Indoor
Environmentalist, 2003

Certified Mediator
/Arbitrator, 2002

Windstorm Umpire
Certification, 2005

Professional Affiliations
Member, Florida Eng.
Society and Leadership
Institute Class I (FES)

President, Treasure
Coast Chapter

Member, National Society of
Professional Engineers
(NSPE)

Member, American Board of
Forensic Examiners (ABFE)

PRIMARY AREAS OF CONSULTING

- **Building Code Expert**
Code compliance
- **Construction Defect Analysis**
Agreement review
Code compliance
Cost to repair
Damage assessment
- **Construction**
Civil site work
Commercial structures including re-use, repositioning and remodeling
Paving, drainage and site utilities
Sewer systems including septic and lift stations
Single and multi-family residential
- **Engineering Design and Analysis**
Design of paving, drainage and site utilities
Design of water and sewer services
Highway design including new utilities, utility relocation and signalization
MEP design of residential, commercial and multi-family structures
Sewer systems including septic, lift stations and treatment plant
Structural design of residential, commercial and multi-family structures
- **Structural Evaluations**
Balcony and wall failure
Code issues
Collapse analysis
Commercial, residential and industrial buildings
Flood/surge assessment
Impact damage from tree, automobile, projectile, etc.
Material failure
Wind damage
- **General Damage Assessment**
Cost evaluations
Fire damaged structures
Flooring
Foundation/wall evaluations, including sinkholes
Structural collapse
Water and sewer pipe failure

John Carroll, Jr. Cont.

Additional Affiliations

Diplomat, American Board of Forensic Engineering and Technology (ABFET)
Member, International Building Code Congress (IBC)
Member, National Association of Home Builders (NAHB)
Member, American Society of Civil Engineers (ASCE)
Member, Treasure Coast Builders Association (TCBA)

Board Positions

Vice Chairman,
Vero Beach Code Enforcement Board
Past City of Fort Lauderdale Unsafe Structures Board

Charitable Affiliations

Vero Beach Rotary Club, Past President
Vero Beach Rotary Foundation Secretary

- **Roof System Evaluations for Commercial, Residential and Industrial Buildings**
 - Cause, nature and damage evaluation for wind, hail and impact
 - Installation errors
 - Quality failure
 - Reconstruction monitoring and analysis
- **General Engineering**
 - Building code compliance
 - Drainage and flooding
 - Swimming pools and other buried structures
- **Moisture Source Evaluations**
 - Cause, source and damage assessment
 - Code issues
 - Cost evaluations
 - Window, door and wall failure analysis
- **Building Envelope Evaluations**
 - Condition assessments
 - Construction defects
 - Thermographic scanning and interpretation
 - Windows (air, water thermal resistance and condensation)
 - Structural loading
 - Waterproofing the building envelope
- **Litigation**
 - Support
 - Expert witness
 - Exhibit design and preparation
- Attends Umpire training and maintains certifications required by the Windstorm Insurance Network, Inc.
- Acts as an independent Appraiser for Property Insurance Disputes