

THE CASE ATLANTIC ADVANTAGE

Recognized experts in deep foundation systems, Case Atlantic Company is a leader in drilled shaft construction. With proven construction capabilities of up to 14 feet in diameter, to sustain individual axial working loads greater than 28,000 kips, Case Atlantic's work is unrivaled.

Drilled shafts are the optimum deep foundation system for structures with high, concentrated loads. Unlike augercast piles or driven piles, drilled shafts generally do not require pile caps or grade beams. Instead, shafts tie directly into building columns eliminating the excavation, shoring and dewatering required for cap or beam construction and often accelerate the schedule.

Drilled shafts can be cased through soft, cohesive soils, eliminating the potential for 'necking' that can compromise the working capacity of uncased piles. With drilled shafts, exact and definable shaft geometry into observable geologies is readily achievable. And, drilled shaft construction is a low-vibration operation—a vital concern in urban construction.

A sophisticated equipment inventory, precisely controlled construction techniques, and non-destructive testing methods ensures that Case Atlantic delivers the quality product expected for long-term performance.

Drilled Shaft Advantages:

- ◆ Very high compression, tension, and lateral load capacities
- ◆ Suitable for all types of soil and rock, up to 50,000 PSI
- ◆ Continuous verification of subsurface materials
- ◆ Single shaft can support a single column without pile cap
- ◆ Reduced foundation footprint and design redundancy
- ◆ Installed with minimal vibration and noise
- ◆ Vary diameters and depths for 100% load-carrying efficiency
- ◆ Can be installed in low headroom (25 ft or less)
- ◆ Can incorporate high-strength concrete



To support the new Cooper River Bridge, the largest cable stay bridge in North America, Case Atlantic operated from land trestles and specially designed barges to install drilled shafts with diameters from 4 ft to 12 ft, to depths of up to 240 ft.

SELECTED PROJECTS



Case Atlantic's reputation is built on an efficient, reliable operation, an excellent product, and a history of achievements.

An excellent track record, demonstrated by successful completion of scores of projects on land and water, has established Case Atlantic's position as the leader in drilled shaft construction.

1

Ouachita River Bridge, Monroe, Louisiana

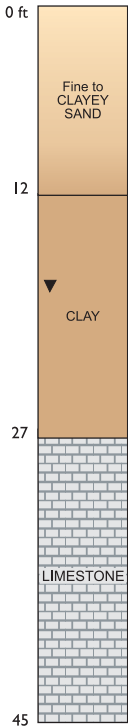


Monroe's DeSiard Street Bridge swing span was replaced with a new bob-tailed swing span. The driven piles used to support the existing railroad swing bridge had become unstable due to scour, requiring a new foundation. LA DOTD temporarily stabilized the existing foundation with riprap, and then decided to permanently fix the existing support piers with a new drilled shaft foundation. Case Atlantic installed drilled shafts for support of the new swing span and bridge operator's house.

- Client** Johnson Brothers for LA DOTD
- Challenge** To protect the existing structure, penetrate the original riprap repair to install the drilled shafts, and to maintain unobstructed traffic on the waterway. Due to limited access, a single crane was used to lift 35-ton, 9-ft dia x 156-ft rebar cages with CSL tubes attached.
- Scope** Four, 4-ft dia x 80-ft shafts, four, 6-ft dia x 80-ft shafts, six, 9-ft dia x 125-ft shafts
- Access** Barge-mounted operation in a navigable waterway
- Schedule** Completed within 3-month schedule
- Method** Permanent casings, wet method (polymer slurry)
- Testing** Crosshole Sonic Logging (CSL)

2

Sandcastle Motel Renovation, Clearwater, Florida

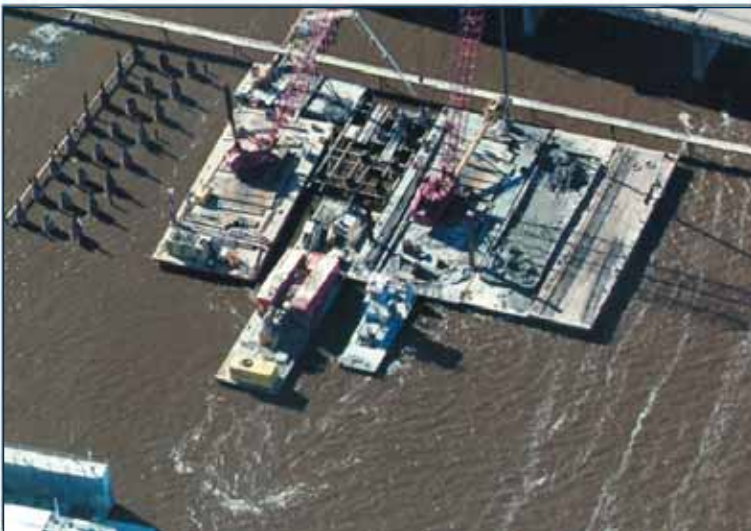


Case Atlantic's years of experience operating in tight-access conditions without negatively impacting the surrounding area was a key factor to the success of the Sandcastle Motel renovation. The renovation included construction of a new fourth floor, requiring the installation of shearwall foundations within a very narrow space. By pumping the concrete from the motel parking lot, and opting to use a small, truck-mounted rig, Case Atlantic operated within the site confines without interrupting pedestrian and vehicle access.

- Client** Beers-Skanska for Church of Scientology
- Challenge** Restricted access, minimal vibrations to maintain integrity of the structure
- Scope** Twenty-five, 2-ft dia x 35-ft shafts with axial capacities of 70 tons
- Access** Restricted
- Schedule** Finished within 3-week schedule
- Method** Temporary casing, wet method
- Testing** Vibration monitoring

3

Pascagoula River Bridge, Pascagoula, Mississippi

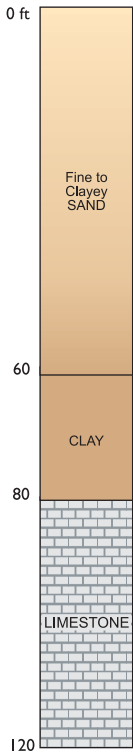


Working double shifts, Case Atlantic installed drilled shaft foundations for the new 3,580-ft long, 135-ft wide Pascagoula River Bridge's one land-based and seven water-based bents. Utilizing a pre-assembled fixed template, the permanent casings were vibrated in place. As work was completed at each bent, the template was disassembled and moved to the next location. Case Atlantic maintained waterway navigability during construction.

- Client** Boh Brothers for MDOT
- Challenge** To maintain waterway navigability and shaft alignment in difficult currents
- Scope** 204, 5-ft dia x (110 to 118) ft shafts installed in groups of 24 or 30. Forty ft permanent casings
- Access** Barge-mounted water work
- Schedule** Completed 13-month schedule in 11 months
- Method** Permanent casing, wet method (mineral slurry)
- Testing** O-Cell

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McNulty Station Parking Deck, St. Petersburg, Florida



Fast-track construction is something Case Atlantic knows well. Construction of a multi-story parking deck with space for retail shops required the installation of drilled shafts in an accelerated work environment. An adjacent high-rise building required monitoring for vibrations. As an example of Case Atlantic's aptitude for precision, the shafts were installed within three feet of sensitive fiber optic line critical to the downtown business section.

- Client** Holder Construction for City of St. Petersburg
- Challenge** Fast-track installation within environmental and work-hour constraints
- Scope** 61 rock-socketed shafts with capacities of 750 to 1,000 tons, with 3-, 4-, and 5-ft diameters to depths of 100-120 ft bearing in the limerock

- Access** Congested work area
- Schedule** Completed within 3-month production schedule
- Method** Temporary casing, wet method
- Testing** O-Cell, vibration monitoring

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West Cobb Loop Road Bridge, Cobb County, Georgia



The 2,992-ft long West Cobb Loop Road bridge crosses Ward Creek and Noses Creek, in South Georgia. At 83 feet, 3 inches wide, it has 73 bents with spans ranging from 40 to 120 feet at the Noses Creek crossing. With work pads set up at each bent, Case Atlantic installed rock-socketed drilled shafts to span these wetlands. Major sections of the work area were covered by standing water ranging from a few inches to several feet deep.

- Client** Sunbelt Structures for Cobb County
- Challenge** EPA-monitored wetland work area
- Scope** 112, 4.5-ft and 5-ft dia x (15-70) ft shafts, and 15-ft rock sockets in 20,000 PSI granite
- Access** Environmentally sensitive marshlands
- Schedule** Completed 8-month schedule in 5 months
- Method** Temporary casing
- Testing** Downhole verification of rock sockets

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Cooper River Bridge, Charleston, South Carolina



Massive drilled shafts were installed for SCDOT's Cooper River Bridge Replacement Project. Working in a diverse environment, including land, water, barges and trestle, Case Atlantic installed the foundation shafts for the largest cable-stayed span in North America, stretching 1,546 ft between the Charleston peninsula and the town of Mt. Pleasant. This operation required extraordinary coordination and careful handling of the surrounding environment.

Client Palmetto Bridge Constructors, SCDOT

Challenge Difficult access, environmental considerations

Scope Largest ever drilled shafts in the Charleston area, featuring up to 12-ft dia shafts with depths up to 240 ft requiring up to 745 cy of concrete. Permanent casing weights up to 100,000 lbs and reinforcement steel cages nearing 200,000 lbs. Total of 414 drilled shafts: 90 in water, 30 on trestle, and 294 on land.

Access Barge-mounted, trestle, and land

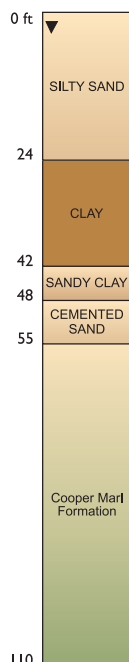
Schedule 2-year schedule completed in 18 months

Method Permanent and temporary casings, wet and dry methods

Testing O-Cell, CSL, sonic caliper, vibration monitoring

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Cumberland Street Parking Garage, Charleston, South Carolina



When careful planning and implementation were needed on this project, Case Atlantic delivered by providing straight and belled shafts to sustain a new parking deck constructed directly adjacent to the Powder Magazine (circa 1719), the oldest building in Charleston, SC. The close proximity (100 ft) of this and other historic structures required monitoring for vibrations which were kept at acceptable levels, ensuring structural integrity.

Client J.A. Jones, City of Charleston

Challenge Adjacent sensitive structures

Scope 20 x 30", 3 x 36", 4 x 42", 14 x 48", up to 110 ft

Access Adjacent to historic structures

Schedule Completed within 2-month production schedule

Method Temporary casing, dry method

Testing Vibration monitoring

Replacement of U.S. 31 Road Bridge, Montgomery, Alabama



Highly commended by the Alabama DOT, Case Atlantic's work on the complex replacement of the U.S. 31 bridge crossing the Alabama River in Autauga County, near Montgomery, showcased the largest ever bentonite slurry-supported holes in Alabama.

Client	Scott Bridge Company, ALDOT
Challenge	Huge, bentonite slurry-supported holes
Scope	2, 8-ft dia x 90-ft shafts at each of two abutments, and 2, 12-ft dia x 132-ft shafts at each of three water bents.
Access	Barge-mounted and land
Schedule	Completed 5-month schedule in 3 months
Method	Permanent and temporary casings, wet method (mineral slurry)
Testing	CSL

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Reliable, Efficient, and Cost-Effective Drilled Shaft Construction

- ◆ Very high compression, tension, and lateral loading
- ◆ Suitable for all types of soil and rock, up to 50,000 PSI
- ◆ Continuous verification of subsurface materials
- ◆ Single shaft can support a single column without pile cap
- ◆ Reduced foundation footprint and design redundancy
- ◆ Installed with minimal noise and vibration
- ◆ Vary diameters and depths for 100% load-carrying efficiency
- ◆ Can be installed in low headroom (25 ft or less)
- ◆ Can incorporate high-strength concrete
- ◆ Optimum results achievable on large and small jobs
- ◆ Limited disruption to adjacent soils
- ◆ Precisely controlled construction techniques
- ◆ Minimum heave and settlement at ground surface
- ◆ Non-destructive testing methods

CASE ATLANTIC COMPANY

14450 46th St. North, Suite 106, Clearwater, FL 33762

Tel: 727-572-7740 / Fax: 727-571-1393

Contact: Nigel Osborn, C. Eng., President
nbosborn@CaseAtlantic.com

Web: www.CaseAtlantic.com

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