

A1A North Causeway

Commercial Building Complex | 2024



AI-generated illustrative rendering

CLIENT

Vecellio & Grogan, Inc.

LOCATION

SR A1A North Causeway Bridge over the Intracoastal Waterway, Fort Pierce, St. Lucie County, FL, United States; related monitored locations: 1900 Old Dixie Highway office, Day Boat Seafood, Shell Gas Station, St. Lucie Inn, and monitoring warehouse.

INDUSTRY

Transportation / Construction and Engineering

SERVICE

Structural Dynamic Analysis; Continuous Monitoring

IMPACT

Established references for neighboring properties and monitored structures during the bridge-replacement work, keeping the project scope focused on nearby buildings.

CHALLENGE

Bridge replacement and pile driving called for response monitoring at properties next to the A1A North Causeway work.

STRAAM APPROACH

STRAAM reviewed four baseline property reports and a later report tracking an office, fish-store/dock structure, and warehouse with six accelerometers and three acquisition systems.

RESULT

The project documented how neighboring properties responded during pile driving. It assessed adjacent structures, not the replacement bridge itself.