

Barclays Center

Brooklyn, New York

Client/Owner

Forest City Ratner Companies

Architect

Ellerbe Becket

Façade Design Consultant

SHop Architects

General Contractor

Hunt Construction Group

Completion Date

2012

Construction Cost

\$350 million

Total Area

750,000 sf

Seating Capacity

18,000

Number of Suites

80 Luxury Suites

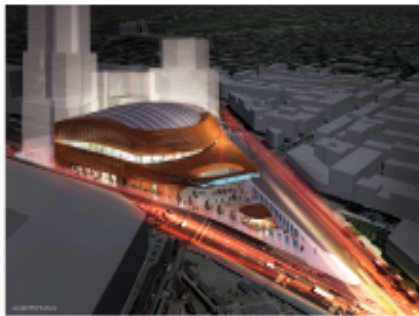


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Thornton Tomasetti is providing structural design and Tekla BIM modeling services for the new Barclays Center, home of the soon to be relocated Nets NBA basketball team. The design-build project features 18,000 seats, over 80 suites and an ice floor for hockey and other events. The steel superstructure consists of two levels of concourses and two levels of suites.

Thornton Tomasetti has also provided Tekla models, connection samples and full connection designs on documents which have allowed us to produce models quickly in steel and store large quantities of information. The distinctive arched roof is supported by a pair of 350-foot-long tied arch trusses spanning the long direction of the arena. Designing and understanding these erection elements presented some structural challenges.

The new arena is the centerpiece of the much larger future Atlantic Yards development which occupies 22-acres and includes 16 buildings for residential use, office, retail, community facilities, parking and public access spaces. The project also includes plans for reconfiguring and improving the Vanderbilt rail yard and upgrading access to the Atlantic Terminal subway station. The arena is set in a busy urban setting near the Atlantic Avenue-Pacific Street subway station and the Long Island Rail Road terminal in Brooklyn, one of the most transit-accessible locations in the New York City.



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