

Flushing Meadows Corona Park Natatorium and Ice Rink Queens, NY

Client

New York City Economic Development Corporation/New York City Department of Parks and Recreation

Value

US\$56,200,000

Completion

2007

Assignment

Construction Management

Assignment

2008 Honorable Mention Award
Construction Management Association of America, Metro NY/NJ Chapter



The Flushing Meadows Corona Park Natatorium and Ice Rink is the largest recreation facility ever built in a New York City park. To be open year-round for both competitive and recreational use, the 110,000 square foot facility is on the perimeter of the park, functioning as a transition between the adjacent neighborhood and open green lawns.

The construction involved the installation of new utilities, pile foundations and the erection of a concrete and steel superstructure with a mast and cable supported steel roof. Concrete roof planking in lieu of conventional metal decking minimizes the frequency of maintenance in the high humidity and corrosive environment found over the pool.

The indoor concrete pool and ice rink are enclosed with an architectural pre-cast concrete sandwich panel and curtain wall façade. The curtain wall at the pool is a special high-performance system designed to minimize condensation in the winter when temperatures drop below freezing and the indoor temperature is 85°F and 50% relative humidity. The pool and rink mechanical and support areas are fit-out with glazed block masonry, cementitious fiberboard, and ceramic tile and paint finishes.

Roof top packaged units with exposed ductwork provide ventilation and dehumidification for the pool. Ductwork is a woven fire retardant permeable fabric in lieu of corrosion prone metal ductwork. Landscaping includes a combination of trees, plants and native grasses consistent with the landscape design of the greater historic park.

The pool, built to Federation Internationale De Natation (FINA) standards, is the Olympic length of 50 meters, ten lanes, surge tanks and overflow gutters making this indoor pool one of the largest and fastest in the Northeast United States. In addition to holding world-class swimming, three meter diving and water polo competitions, it features a chair lift, a moveable floor and bulkheads to support open swimming for the public, water safety training and swimming lessons.

The rink was built to USA Hockey/Serving the American Rinks (STAR) and United States Figure Skating Association (USFSA) standards at 200 by 85 feet.

The refrigeration equipment room has redundant systems capable of handling any demand or emergency that would cause a shutdown of one of the units.

Both venues contain locker rooms, multipurpose spaces, concession areas and bleacher seating for 500 spectators.