



## **CHPP-Composite Helical Pipe Pile**

### **180 ft. SST (Self Support Tower)**

A 180 ft. Self Supporting Tower (SST) with three legs was installed at the city of Bayonne, NJ Police Department.

A total of 650 KIP ultimate load per leg was required. The constraints were a high water table and avoidance of spoils at the tower site. Drilled shaft and driven piles were considered.

The Composite Helical Pipe Pile was selected as the best choice for this project.

A total of 5 helical piles were installed at each of the three legs to a depth of 36 ft. with a 16,000 ft-lb. ultimate installing torque. The piles were filled with concrete for increased strength.

A total of 8 CHPP piles were also installed to support a 4,800 sq-ft. building. The load requirement was 12 KIP per pile and they were installed to a depth of 36 ft. with an ultimate torque of 16,000 ft-lbs.



Lightweight and maneuverable equipment was used to installed the helical piles

