

MARINA DEL REY, CALIFORNIA

DUAL FORCE MAIN & PUMPING PLANT GENERATOR REPLACEMENT



LOCATION:

Marina Del Rey, CA

HIGHLIGHTS:

- Involved construction of new 54" diameter force main sewer extending 10,392 ft in length
- Majority of the new line was constructed using microtunneling
- Two new 750 kW (480 V) generators and one new 1,500 kW (480 V) generator with complete emissions control systems and fluid storage will be furnished and installed

This project consisted of a new 54-inch diameter force main sewer extending 10,392 linear feet in length, originating from a newly constructed manifold. From the manifold the alignment made its way beneath the Marina Del Rey Harbor inlet and Ballona Creek channel, continuing south under Pacific Avenue and Vista Del Mar to its terminus.

The majority of the new 54-inch diameter line was constructed via microtunneling, predominately direct-jacked reinforced concrete cylinder pipe (RCCP) but also included 2,800 feet of 80-inch diameter Permalok Steel Casing with RCCP carrier and 1,800 linear feet of 88-inch diameter reinforced concrete pipe (RCP) with a 54-inch diameter fiberglass reinforced pipe (FRP) carrier. One of the tunnel drives included two (2) horizontal curves and one (1) vertical curve climbing 50 feet. The project also consisted of the demolition of existing equipment, procurement and installation of three (3) new generators along with ancillary controllers, transfer switches, and exhaust and cooling systems at a pumping plant. The generators that were furnished and installed included two (2) 750 kilowatt (kW) and one (1) new 1,500 kW complete with emissions control systems and fluid storage.