

CASE STUDY

MICROTUNNELING | SLURRY MICROTUNNELING



Project Name:
City Trunk Line South Unit 3

Subcontractor:
W.A. Rasic Construction

Location:
North Hollywood, CA

Owner:
Los Angeles Department
of Water and Power (LADWP)

Ground Conditions:
Packed Silt, Some Cobble, Gravels and Sands

Akkerman Equipment:
SL82P MTBM Face-Access system, Mixed-Face Disc Cutter Head

Pipe:
82-in. OD Permalok® and 60-in. Mortor Lined Steel Casing as Carrier

Total Length/Longest:
3,073-lf./1,033-lf.

PROJECT OVERVIEW

The City Trunk Line South Unit 3 is part of the LADWP's Capital Improvement Program to replace a 102-year-old water pipeline in North Hollywood. The project includes 5,357-lf. of 60 and 72-inch steel casing for completion by open trench and microtunneling pipe jacking construction. Of this footage, four tunnels totaling 3,073-lf. were approved for installation with an Akkerman MTBM system. When completed, the bores would be connected to existing trunk lines.

THE CHALLENGES

- Project site in a heavily congested commercial and residential area
- Complex traffic control plan and phasing
- Extensometers and inclinometers to monitor settlement
- Noise-canceling system with sound blankets to minimize construction noise
- Installations at up to 32-foot depths
- First time this contractor used an MTBM as the self-performing contractor

THE SOLUTION

The subcontractor utilized an SL82P Periphery Drive Microtunnel Boring Machine with Face-Access to complete all tunnels.

OUTCOME

- Four alignments successfully completed with precision accuracy, without disruption

