



# **STAHELI** **Trenchless** **consultants**

**Construction Method:**

**Auger Boring**

**Project:** **Miramar Trunk Sewer Project,  
City of San Diego**

**Location:** **San Diego, California**

**Date:** **2012**

**Job Scope:**

- ❖ Design Review
- ❖ Risk Analysis
- ❖ Submittal Review

**Project Description:**

Staheli Trenchless Consultants provided design review of a 600-foot, 48-inch crossing beneath Interstate 15 in San Diego. STC was asked to consult on this project due to challenging geotechnical conditions consisting of alluvial soils with a cobble and boulder component ranging from 10 to 45 percent. Concerns about the risk of getting stuck under the Interstate due to multiple obstructions led to the decision to specify auger boring as the best option, as it would allow the Contractor to pull the augers during construction to access the face of the excavation. After the Contractor proposed microtunneling as an alternative to auger boring, STC performed a risk analysis to assist the Owner in characterizing the risk of using a machine without face access. Ultimately, the microtunneling alternative was rejected, and the project was successfully completed using auger boring. At the time of construction, this project held the U.S. length record for an auger bore crossing at the 48-inch diameter.

**Reference:**

Jericho Gallardo, City of San Diego.  
(619) 533-7523