

Building owner survey of the underground railway station „Löwenstrasse“

Base survey, stake-out and control measurements during construction



📍 Zurich, Switzerland
👤 Swiss Federal Railways
🕒 2007 - 2015

Expertise

Engineering Surveying

The “Löwenstrasse” station under Zürich’s busy main station is part of the bigger “Durchmesserlinie” project aimed at substantially boosting capacity on the east-west regional and main lines and thus making Switzerland’s most important railway hub fit for the traffic growth expected in the next decades. The new underground station includes four tracks and two 420 m long platforms. The survey tasks during the construction phase were carried out by a consortium consisting of BSF Swissphoto, Pöry Schweiz AG and Basler & Hofmann AG. Most survey work had to be carried out under full operation of the adjacent rail lines by staff specifically trained by Swiss National Railway’s (SBB) safety department.

Our services

- ◆ Fixed point monumentation and survey
- ◆ Track and switch set-out surveys using the „Toporail“ software
- ◆ Building and track monitoring
- ◆ 3D deformation surveys
- ◆ Set-out surveys for railway and construction infrastructure (platforms, diaphragm walls etc.)
- ◆ As-built control and documentation