

New building rehabilitation clinic Bellikon

Construction surveying, manual and automatic monitoring



For capacity reasons, the rehabilitation clinic in Bellikon, Switzerland's leading clinic for accident rehabilitation, has decided to carry out a complete renovation of the existing clinic site and to build a new building. The additional space and uses will be accommodated in a three-storey new building in front of the clinic. The total costs amount to CHF 316 million.

The existing wards were monitored using automatic and manual measurements in order to identify potential risks at an early stage and to be able to take countermeasures. In addition, the construction required extensive surveying, staking out and construction inspections.

- 📍 Bellikon, Switzerland
- 👤 GROSS
Generalunternehmung AG
- 🕒 2014 - 2017

Services

- ◆ Creation of a highly accurate fixed-point network and expansion
- ◆ inventories for detailed planning
- ◆ Stake-out and control surveys
- ◆ Setting out of construction targets
- ◆ Installation and operation of 3 total station monitoring systems (façade and interior of building)
- ◆ Installation and operation of 4 permanent vibration sensors in accordance with SN 640'312
- ◆ Manual inclinometer and anchor force and geodetic deformation measurements
- ◆ Manual and automatic crackmeters

Technologies

- ◆ 3 precision total stations with 65 monitoring points
- ◆ 4 vibration sensors
- ◆ 2 automatic crack measurement systems (crackmeters)
- ◆ 3 webcams
- ◆ TEDAMOS Web, password-protected customer portal with 24/7 access