Hospital "Kantonsspital Graubünden", SUN extension project

Monitoring of the excavation pit and existing hospital infrastructure during construction phase



When Graubünden's central hospital (Kantonsspital) was substantially expanded between 2015 and 2017, the project included – among other elements – a large new building including an underground car park. The 22 m deep excavation pit bordered immediately on the existing ward building. In addition, a conduit tunnel for the energy supply infrastructure was constructed underneath the present buildings containing the highly sensitive operating room and the magnetic resonance imaging (MRI) equipment. A high-profile monitoring system allowed the real-time surveillance of potential displacements 24/7.

Our services

- Consulting for all surveying aspects during the entire planning and construction phase
- ◆ Design and installation of the automated monitoring system
- Additional manual inclinometer and deformation measurements
- ◆ As-built documentation and control

- Chur, Switzerland
- Kantonsspital Graubünden
- 2014 2017

Expertise

Engineering Surveying, TEDAMOS

Systems

- 2 automated total stations measuring 100 target points
- 9 vibration sensors
- ♦ 2 water level gauges
- Web-based, passwordprotected online portal allowing 24/7 access

Find more information on the SwissMonitor solution under http://en.swissmonitor.ch

