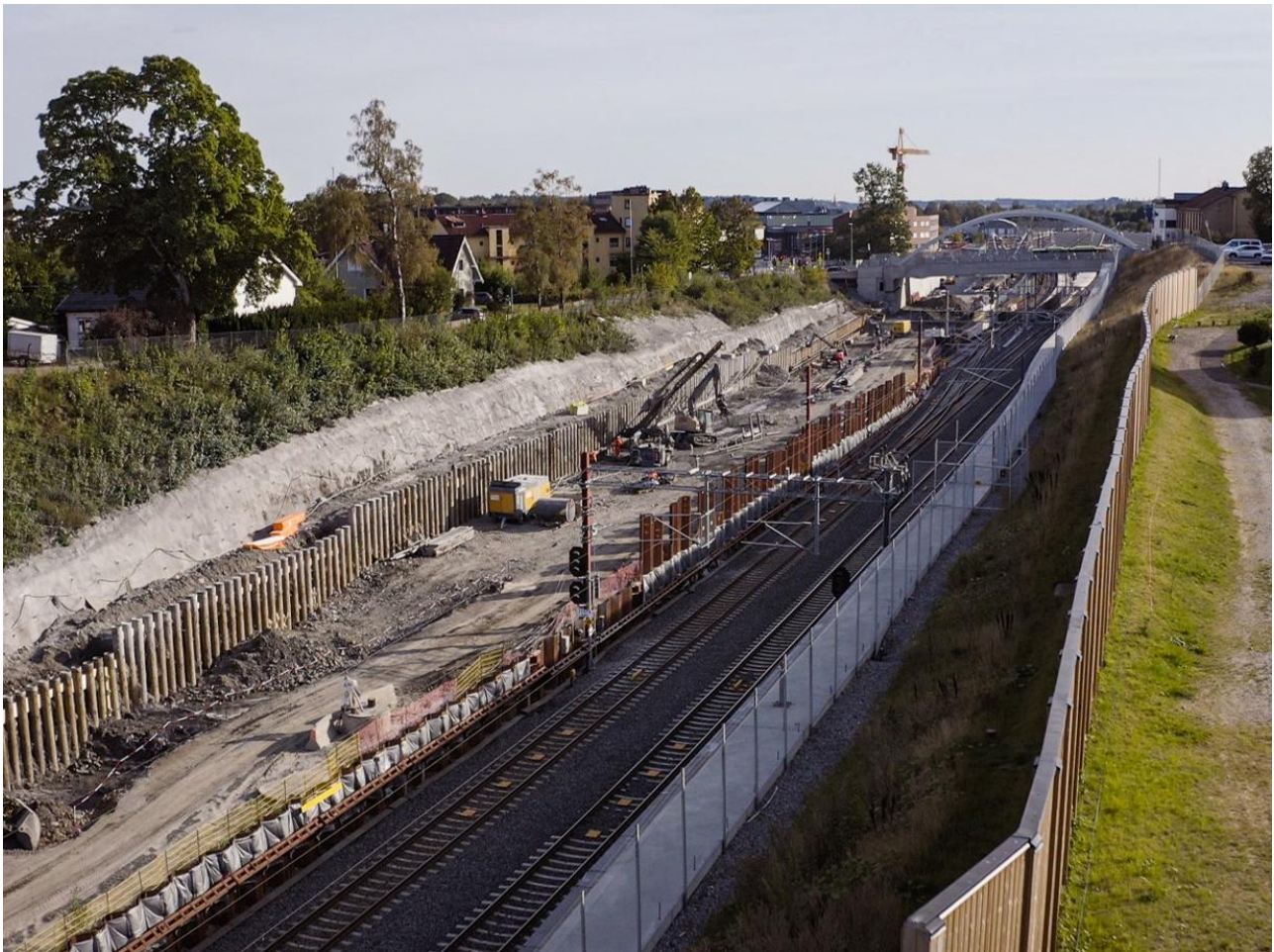


Follo Line Ski RW SP4-5

Ski, Norway

- Shoring walls consisting of Steel Piles, Ground Anchors and Shotcrete to retain the excavation of up to 7m depth.
- 391 Steel Piles (5950 m), 199 Ground Anchors (5400 m) and 1500 m² Shotcrete.
- Ring-Bit system with Pilot bit used for Piles and Double Rotary Head system used for Anchor drilling.



The project

The Follo Line Ski project is part of the new high-speed railway line between Oslo and Ski. After completion in 2022, Ski will have a modern transport hub with three platforms and a completely renewed station area.

To build the tracks north of the station a permanent retaining wall had to be built.

The challenge

- Difficult soil conditions including sensitive soft clay, moraine layers, large blocks and bedrock.
- Extraordinary welding detail requirements for piles and anchor beams.
- Complex site logistics and limited working space.
- Presence of fully operational rail tracks along the wall.
- Sequencing works to maximize the production (up to 3 drilling rigs concurrently on site).

The solution

- Double Rotary Head system to minimize disturbance of surrounding soil.
- Welding plant to prefabricate the pile casings and anchor beams.
- Spare equipment to keep the tight time schedule.

Project facts

Owner(s)

Bane NOR

Keller business unit(s)

Keller Geoteknikk AS
Keller Grundläggning AB
Keller Grundbau GesmbH

Main contractor(s)

OHL Norge

Engineer(s)

Project Manager - Vidal Alcon
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Solutions

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Markets

Infrastructure

Techniques

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Ground anchors
Jet grouting

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