RAILWAY TUNNEL EPPENBERG
WÖSCHNAU/GRETZENBACH (CH)

CLIENT
Swiss Federal Railway Company, SBB, CH-4600 Olten

PLANNER AND SITE SUPERVISION
ILF Consulting Engineers AG, CH-8048 Zürich
Aegerter & Bosshard AG, CH-4002 Basel
ACS-Partner AG, CH-8050 Zürich
SIGNON Schweiz AG, CH-8048 Zürich

TIME OF COMPLETION
2015 - 2021

EXECUTION OF THE WORK
ARGE Marti Eppenberg

CONSORTIUM PARTNERS
Marti Tunnel AG, CH-3302 Moosseedorf
Marti AG, Bauunternehmung, Zürich, CH-8050 Zürich
Marti AG Solothurn, CH-4503 Solothurn

LEAD COMPANY – TECHNICAL AND COMMERCIAL LEAD
Marti Tunnel AG, CH-3302 Moosseedorf

CONTRACT SUM
CHF 273 Mio.
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SCOPE OF THE WORKS
The two-track railway tunnel Eppenberg is the centerpiece of the four-track extension between Olten and Aarau.

The Eppenberg tunnel construction contract consists of four sub-projects:
- Rock tunnel Eppenberg (L = 2600 m)
- Y-Branch building Wöschnau
- Y-Branch building Gretzenbach
- Lane Track change Wöschnau

ACTIVITIES
- Pipe umbrella top heading, bench and invert excavation (L = 60 m, A = 160-210 m²)
- Open mode TBM excavation in (L = 1'900 m, Ø = 12.75 m)
- Hydroshield TBM excavation (L = 700-2'000 m, Ø = 12.75 m)
- Emergency exit Aarauerstrasse (L=100 m, A= 18-19 m²)
- Execution of two blind shafts up to 60 m depth, which are constructed as evacuation galleries
- Excavation of access and rescue galleries
- Plant Valorization of excavated rock as certified gravel for concrete production
- Own concrete production
- Handling and processing of the excavated material
- Handling and rail transport of concrete lining segments
- Conveyor belt facilities for mass transfer
- Construction of several cut and cover sections (total length of approx. 1.5 km)
- Execution of road under-crossing using the cut and cover method
- Construction of a 23 m deep and 400 m long construction pit

GEOLOGY
- Lower Süßwasser molasses
- Effingen layers (Jura Marl)
- Gravel deposits (loose material)