



# **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**

04.2015 – 02.2021

### **CONTRACT SUM**

CHF 273 Mio.

### **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

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### SCOPE OF THE WORKS

The two-track railway tunnel Eppenbergr is the center-piece of the four-track extension between Olten and Aarau.

The Eppenbergr tunnel construction contract consists of four sub-projects:

1. Rock tunnel Eppenbergr (L = 2600 m)
2. Y-Branch building Wöschnau
3. Y-Branch building Gretzenbach
4. Lane Track change Wöschnau



### ACTIVITIES

- Pipe umbrella top heading, bench and invert excavation (L = 60 , A = 160-210 m<sup>2</sup>)
- Open mode TBM excavation in (L = 1'900 m, Ø = 12.75 m)
- Hydroschild TBM excavation (L = 700 2'000 m, Ø = 12.75 m)
- Emergency exit Aarauerstrasse (L=100 m, A= 18-19 m<sup>2</sup>)
- 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



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### GEOLOGY

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



**Marti Tunnel AG**

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