



# **TUNNEL BUCHRAIN, A14**

## **BUCHRAIN (CH)**

### **EMPLOYER**

Canton of Lucerne, CH-6002 Lucerne

### **DESIGNER**

IG ROBU,  
Basler & Hofmann AG, CH-6005 Lucerne  
Kost + Partner AG, CH-6210 Sursee  
Schubiger AG, CH-6003 Lucerne  
PlüssMeyerPartner AG, CH6330 Cham

### **TIME OF COMPLETION**

08.2008 – 10.2010

### **CONTRACT SUM**

CHF 33.1 Mio.

### **EXECUTION OF THE WORK**

Marti Tunnel AG as subcontractor for ARGE ANRO

### **CONSORTIUM PARTNERS**

Anliker AG, CH-6021 Emmenbrücke  
Marti Bauunternehmung AG, CH-6002 Lucerne  
Marti Tunnel AG, CH-3302 Moosseedorf  
Gebr. Brun AG, CH-6020 Emmenbrücke  
Stutz AG, CH-8500 Frauenfeld

### **LEAD COMPANY**

Anliker AG, CH-6021 Emmenbrücke

### **COMMERCIAL LEAD**

Marti Bauunternehmung AG, CH-6002 Lucerne

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### SCOPE OF THE WORKS

- New highway connection Buchrain A14 between Emmen Süd and Gisikon-Root
- Access Rontal as a connection between Reusstal and Rontal
- As a part of the access Rontal, the tunnel of Buchrain crosses under the town of Buchrain
- Two-track road tunnel with bi-directional traffic
- Length of the tunnel in conventional excavation method L = 740 m
- Emergency stopping bay in the middle of the tunnel
- Safety gallery below the roadway
- Emergency exits into the gallery

### ACTIVITIES

- Excavation of a pilot gallery with a tunnel boring machine D = 3.60 m
- Excavation of portal section under pipe umbrella, steel arches, shotcrete
- Widening of the pilot tunnel, lowering of the benches and excavation of the trench for the safety gallery using a roadheader
- Rock support with shotcrete, bolts and steel arches, metal installations
- Excavation and rock support of the emergency bay and the emergency exits
- Construction of the safety gallery with precast elements
- Concreting lining and finishing of the tunnel, the emergency bay and the emergency exits



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