



SANIERUNG AXENTUNNELS SEESEITIG BRUNNEN - FLÜELEN (CH)

EMPLOYER

Schweizerische Bundesbahn SBB, CH-6002 Lucerne
Cantons Uri and Schwyz
(tunnel protection – bridge over the N4)

DESIGNER

IG SINERGIA PLUS consisting of:
Amberg Engineering AG, CH-8105 Regensdorf
F. Preisig AG, CH-8050 Zurich
Ingenieurbureau Heierli AG, CH-8033 Zurich

TIME OF COMPLETION

11.2016 – 12.2019

CONTRACT SUM

CHF 53.5 Mio.

EXECUTION OF THE WORK

ARGE Marti Rhomberg Axen

CONSORTIUM PARTNERS

Marti Tunnel AG, CH-3302 Moosseedorf
Marti Bauunternehmung AG, CH-6005 Lucerne
Rhomberg Bahntechnik GmbH, CH-8048 Zürich

LEAD COMPANY AND TECHNICAL LEAD

Marti Tunnel AG, CH-3302 Moosseedorf

COMMERCIAL LEAD

Marti Bauunternehmung AG, CH-6002 Lucerne

SANIERUNG AXENTUNNELS SEESEITIG

BRUNNEN - FLÜELEN (CH)

SCOPE OF THE WORKS

The entire project extends is over 11.6 km and comprises:

| | |
|------------------------|-------------|
| - Number of tunnels | 9 pcs |
| - Total length | 5.4 km |
| - Year of construction | 1882 |
| - Emergency renovation | 2003 / 2004 |

WORK DESCRIPTION

The following tunnels were renovated:

- | | |
|---------------------------------|---------|
| - Tunnel Hochfluh | 584 m |
| - Tunnel Franziskus | 171 m |
| - Tunnel Oelberg | 1'987 m |
| - Tunnel Stutzeck | 988 m |
| - Tunnel Tellsplatten | 172 m |
| - Tunnel Axenberg | 1'128 m |
| - Tunnel Sulzegg | 128 m |
| - New and old Gruonbach gallery | 98 m |
- Self-rescue facility
 - Protection tunnel and road overpass on the N4
 - Installation sites with partial steel platform above tracks
 - Deconstruction of existing roadway (incl. ballast disposal)
 - Deconstruction and disposal of existing cable ducts and cables.
 - Sole sinking
 - Abutment underpinning- Upgrade of existing tracks (incl. debris removal)
 - Vault restoration with HDW cleaning, 3 layers of fibre reinforced shotcrete
 - New primary and secondary drainage
 - Niche expansions for technical plants
 - Foundations for FL masts and tunnel telecommunication cabins outside
 - Renovation and adaptation of retaining walls, culverts and bridges
 - New cable ducts in all tunnels and railroad tracks outside
 - Concreting of base support plates
 - Slab track or ballasted track in all Tunnels and ramps, partial renewal of superstructure in the open lines
 - Installation of handrail and signage Self-rescue and zone markings main inspections



22.06.2020



Marti Tunnel AG

Seedorffeldstrasse 21 3302 Moosseedorf Tel. +41 31 388 75 10 www.marti-tunnel.ch tunnel@martiag.ch