GUBRISTTUNNEL
REGENDSDORF (CH)

EMPLOYER
Federal roads office FEDRO, CH-8404 Winterthur

DESIGNER
IG AHB, c/o Amberg Engineering, CH-8105 Regensdorf

TIME OF COMPLETION
2016 - 2021

CONTRACT SUM
CHF 190 Mio.

EXECUTION OF THE WORK
ARGE Marti Gubrist

CONSORTIUM PARTNERS
Marti Tunnel AG, CH-3302 Moosseedorf
Marti AG, Bauunternehmung, CH-8500 Zurich

LEAD COMPANY – TECHNICAL AND COMMERCIAL LEAD
Marti Tunnel AG, CH-3302 Moosseedorf
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SCOPE OF THE WORKS
The Project 3rd tube Gubristtunnel (Lot 201) is part of the expansion of the Northbypass Zurich (ANU) and includes following main elements:
- Tunnel excavation by drill and blast: 3 km
- Outside works Affoltern: 77 m
- Outside works Weinigen: 223 m

ACTIVITIES
Tunnel (D&B excavation):
- Top heading with post bench- and invert excavation
- Cross section: approx. 180 m²
- Excavation diameter: 15.44 m / 14.45 m
- Blasted volume: approx. 500’000 m³
- Counter excavation from the Weinigen Portal by using pipe umbrellas (approx. 100 m)
- Cross connections: 12 pcs
- Operation station Sunnenrain
- Service-supply channel underneath roadway
- Suspended ceiling

Open Cast:
- Cut and cover section
- Securing with anchors and nailed walls
- Earthworks: Approx. 150’000 m³
- Drilled piles: 2’800 m
- Diaphragm wall: 3’700 m²
- Operation and ventilation control: 2 pcs.

Transfer rail station
- Planning, construction and exploitation of a excavation loading terminal nearby the construction site – evacuation of the excavated material by train (1.3 Mio. to)

GEOLOGY
Mostly Upper Süßwassermolasse (interbedded layers of sandstone, silt and marl)