GALLERIA VEDEGGIO-CASSARATE
LUGANO (CH)

**EMPLOYER**
Office of Civil Engineering of the Canton of Ticino, CH-6500 Bellinzona

**DESIGNER**
Ingenieurgemeinschaft DL-2010
Lombardi SA, CH-6648 Minusio

**CONSTRUCTION PERIOD**
2007 – 2010

**CONTRACT SUM**
CHF 70 Mio.

**CONTRACTOR**
Consorzio Marti Lugano

**CONSORTIUM PARTNERS**
Marti Tunnel AG, CH-3302 Moosseedorf
Mancini & Marti SA, CH-6500 Bellinzona

**LEAD COMPANY – TECHNICAL AND COMMERCIAL LEAD**
Marti Tunnel AG, CH-3302 Moosseedorf
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SCOPE OF THE WORKS
Lot 0211-G4
Bidirectional motorway tunnel, part of the luganese beltway system:
- Excavation of a tunnel of a length of 2'350 m and a section of 73 - 86 m²
- Ventilation shaft of a height of 98 m and a diameter of 4.00 m including an access gallery and a ventilation cavern
- Reinforcement of the section where the tunnel will cross the Ceneri railroad tunnel (NRLA)
- 4 enlargements for security stop (every 600 m) of a length of 41 m and a section of 156 m³ each

ACTIVITIES
- Conventional rock excavation using a 3 arms jumbo; depending of the rock quality and other environmental reasons, excavation of the full or partial section.
- The rock cover to the existing railroad Milano-Zürich being only 7 meters, the first phase was executed under the protection of a grouted pipe poling umbrella.
- Rock support by means of shotcrete with fibers, rock bolts and/or steel sets.
- Internal lining membrane insulation and cast in place concrete.
- Inserted ceiling for the final ventilation system and cast in place concrete for portal work

GEOLOGY
Gneiss and chlorite schist with graphite layer