

OUR REFERENCES IN
CIVIL ENGINEERING

FEDRO - N2 EP28 L202

Rehabilitation of Motorway Components



Gentilino-Lamone





Client

Federal Roads Office FEDRO



Person in charge

Bellinzona Subsidiary

+41 58 469 68 11

bellinzona@astra.admin.ch



Company

Joint venture GL 202

csc costruzioni sa; Implenla Svizzera sa,
MMC sa; Edilstrada sa; CASADA sa



Work duration

02.2024 – 09.2027



Designers

Joint Venture EP28 Lugano with:

- Pini Swiss Engineers SA
- AFRY SVIZZERA SA
- Pagani & Lanfranchi SA
- IFEC ingegneria SA – Ambiente



Type of contract

Construction contract



Contract amount

CHF 153,781,955.95 (VAT excl.)

Description of works

Lot 202 concerns the main civil engineering works, including the reconstruction and upgrading of 27 structures, such as underpasses, bridges and related works. It is the largest maintenance project in Ticino over the past 30 years.

The main works included in Lot 202 are:

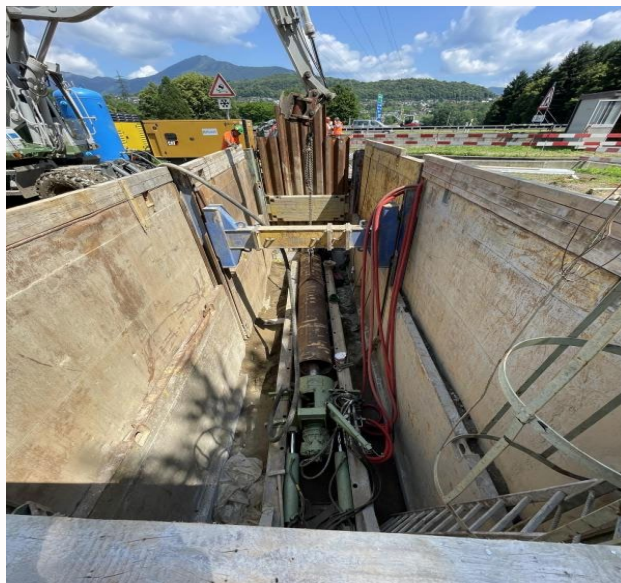
- Renewal of the bituminous pavement and, where necessary, the foundation layer;
- Construction of new substructures;
- Raising of the north–south carriageway between km 24+100 and km 25+800 with the construction of a new embankment;
- Demolition and reconstruction of the SC Sorengo–Piodella underpass;
- Construction of noise-barrier walls in exposed aggregate concrete, glass or wood;
- Rehabilitation of approximately 27 structures, including overpasses, culverts, underpasses and two retaining walls.



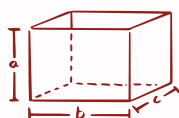
Project features

The EP 28 project, of which the present Lot 202 is part, includes the rehabilitation of motorway components along the N02 motorway from km 23+950 (north portal of the Gentilino tunnel) to km 30+060 (Lamone), including the Lugano North interchange.

The works must be carried out taking into account the high traffic volumes and the fact that, from km 27+100 to km 30+060, there is a groundwater protection zone.



Main quantities



- Placement of granular base (aggregate mix)
- 66,000 t
- Laying of bituminous mixtures: 203,000 t



- Installation of noise-protection panels: 9,400 m²
- Pipes for drainage/ducting: 23,500 m



- Active anchors: 5,260 linear metres
- Drilled micropiles: 1,030 linear metres