



A1 MILAN-PIACENZA MOTORWAY

Widening to 6 lanes, 1989-1992

PROJECT CHARACTERISTICS

Works: Widening from 4 to 6 lanes of a motorway open to traffic including the construction of 43 flyovers, 9 small bridges, 308 concrete structures, the widening of 2 bridges, 147 and 287 m long, of 13 existing underpasses, the construction of a new underpass without interrupting the traffic and the demolition of 46 flyovers.

Dimensions:

- Overall length: 48.8 Km
- Cross width: from existing 24 to 33 m

Project Costs: 190 million US \$



PROFESSIONAL SERVICES PERFORMED

Construction supervision, construction drawings review, quality control, and final acceptance tests, contract administration and co-ordination of 13 Contracts. Site resident staff of 9 engineers and head office support.

The widening works on the Italian A1 motorway from Milan to Piacenza started in the spring of 1990 and were completed on August 1992.

The widening works have been carried out by 13 Contractors under an average traffic of 90 000 vehicles/day. A total of 25 two-span, steel-concrete flyovers were built, plus 18 additional, three-span flyovers, with one of the bays in prestressed concrete for a high-speed railway.

The main works were built in steel and precast concrete structure.

In all 2.8 million m³ of fill and 1.15 million m² of pavement were placed.

Complementary structures as offices, maintenance buildings, highway patrol barracks were also part of the project.

