

Rehabilitation Flamatt - Weyermannshaus N12.84

Location:	Highway N12 between Bern and Fribourg, Switzerland
Client:	FEDRO (Thoune Office)
Year:	2020-2021
Engineering services:	Project generation with definition of scope of work
Bridge use:	Road bridges, foot and cycle bridges

Project Description

The project generation was prepared for the national road section N12.84 Flamatt - Weyermannshaus, which starts in Bern and runs towards Fribourg. The rehabilitation of the mostly 4-lane freeway shall be carried out in the years 2028-2029.

The engineering structures involved are a twin bridge of 300 m length, a cut-and-cover tunnel of 78.6 m length, eight overpasses, and eight underpasses, most of which were built between 1972 and 1976. The structures are generally in an acceptable condition, where only a few of them require major repairs. The existing documentation of past rehabilitations was summarized and the expected measures were evaluated in order to reach a maintenance-free period until 2045. In addition to a sustainable life cycle assessment, preventive maintenance measures are identified, which will delay deterioration to such an extent that the required measures after 2045 can be reduced.

