MACCAFERRI

CASE HISTORY

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SAMSUN-KALIN HIGH SPEED RAILWAY PROJECT

SAMSUN, KARADENİZ, TURKEY

Surface Strengthening and Support

Problem

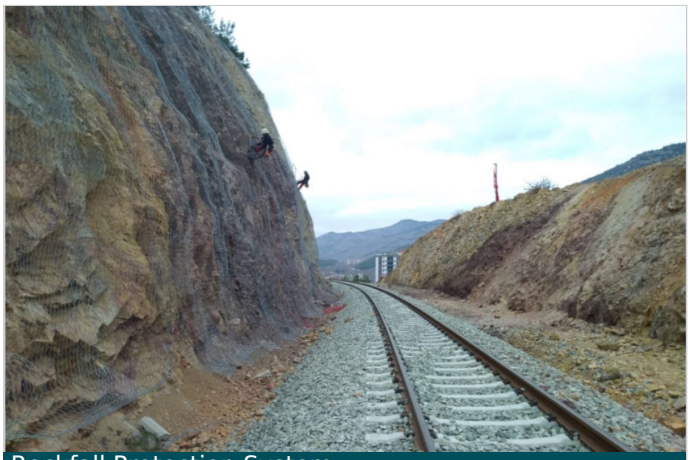
The Samsun-Kalın High-Speed Railway project is connecting the cities between Samsun and Sivas in central Turkey with a high-speed train line. At several locations along the almost 400 km long railway, rockfall problems occurred due to the highly demanding geological and morphological conditions of the slopes bordering the railway line.
In order to establish a comprehensive rockfall protection project, the entire railway line has been surveyed and studied upon its geological conditions and several rockfall areas were determined and investigated in greater detail.

Solution

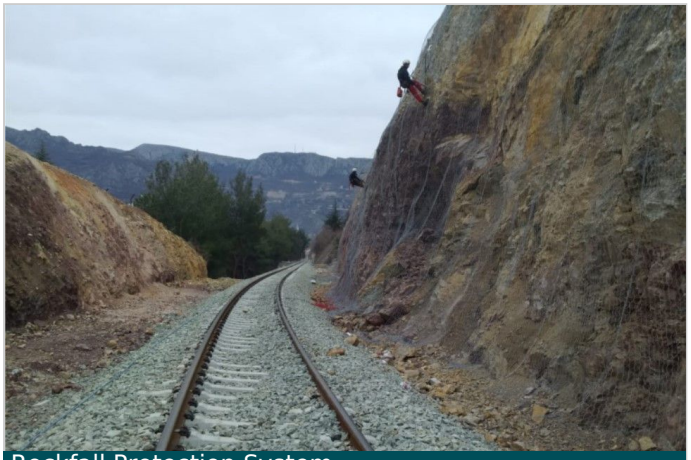
As a result of the geological investigations, simple drapery of the most critical slope areas with Double-Twisted Wire Mesh (Mesh Size: 8x10 and Wire Diameter 2.7mm) has been advised as rockfall protection system with respect to the technical and economic conditions of the project.
The installation of the rockfall protection system is being carried out in cooperation with a professional mountain crew in 2018 and is still an ongoing project in 2019.

Client: TCDD
Designer / Consultant: MACCAFERRI TURKEY
Contractor: ÇELİKLER-GÜLERMAK-AZD ORTAK GİRİŞİM
Products used (Qty.)
- DT Mesh 148.000 m2

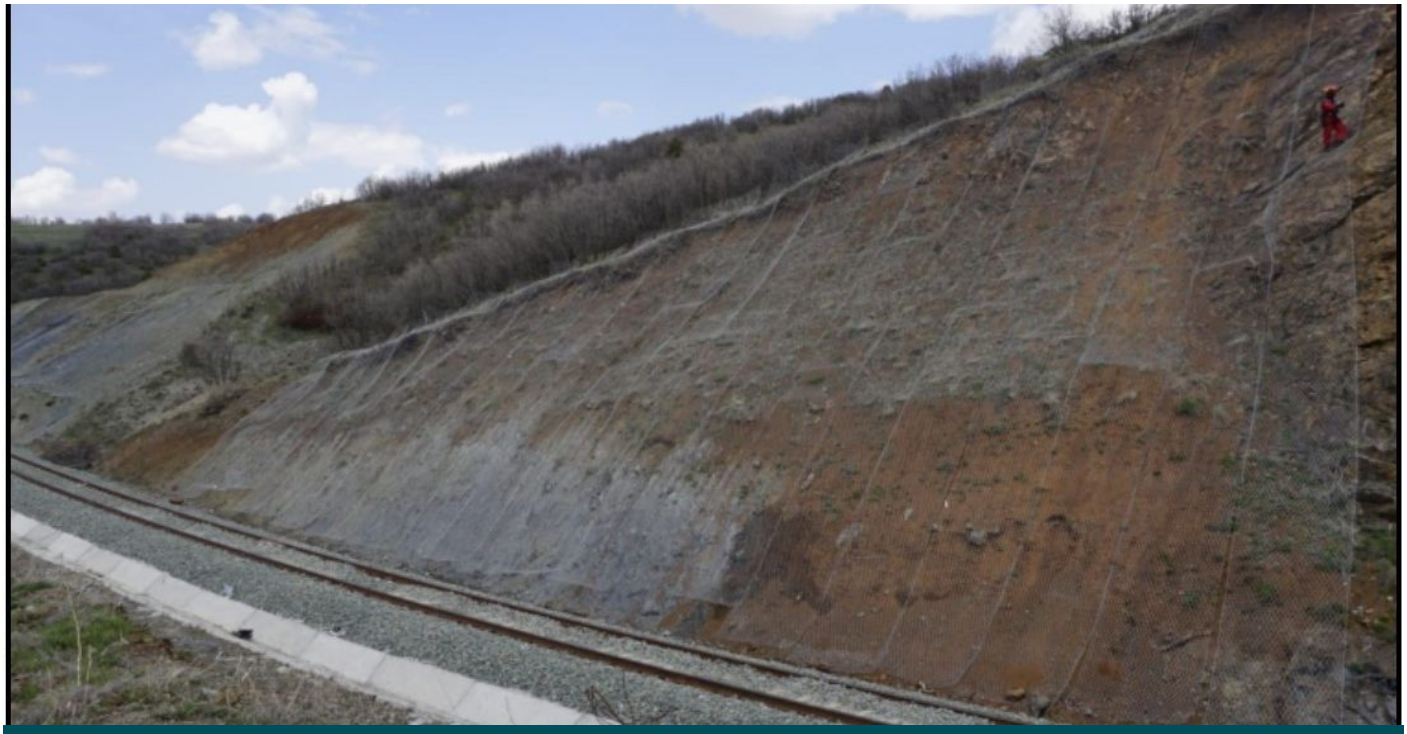
Date of construction: 11/2017 - 07/2020



Rockfall Protection System



Rockfall Protection System



Rockfall Protection System