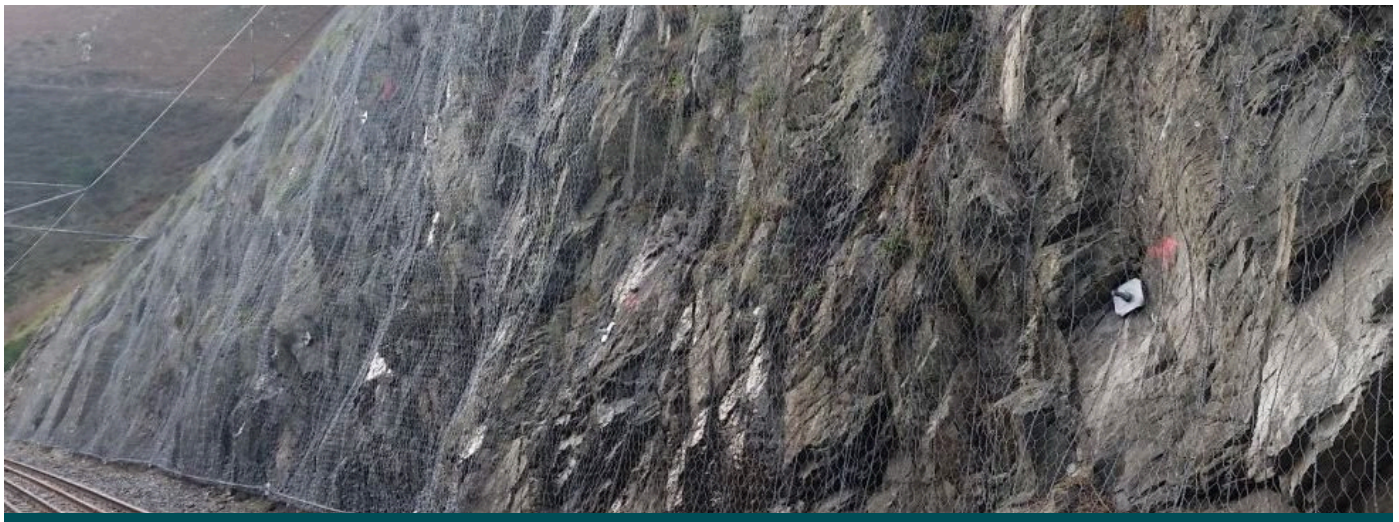
BRAY HEAD, IRISH RAIL

BRAY HEAD - DUBLIN-WEXFORD LINE - Ireland



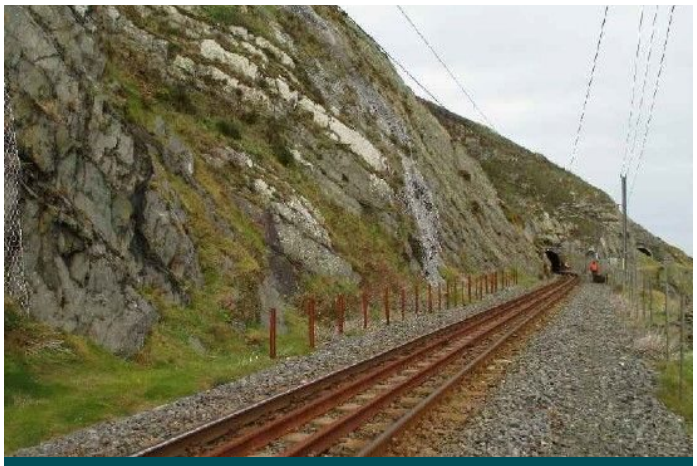
TYPE OF PROJECT	YEAR OF CONSTRUCTION	CLIENT	CONTRACTOR	DESIGNER
Surface Strengthening And Support	**2023**	**Irish Rail**	**Coffey Construction Ltd**	**Irish Rail**

PROD. RELATED
MacArmour & SteelGrid ( )

Challenge

A site located on the railway line close to the coastal town of Bray on the Dublin-Wexford line required stabilisation of the rock cuttings adjacent to the track. The line was at risk of rockfall and required the installation of protective measures. The railway had to remain in operation during the installation of the protective systems.

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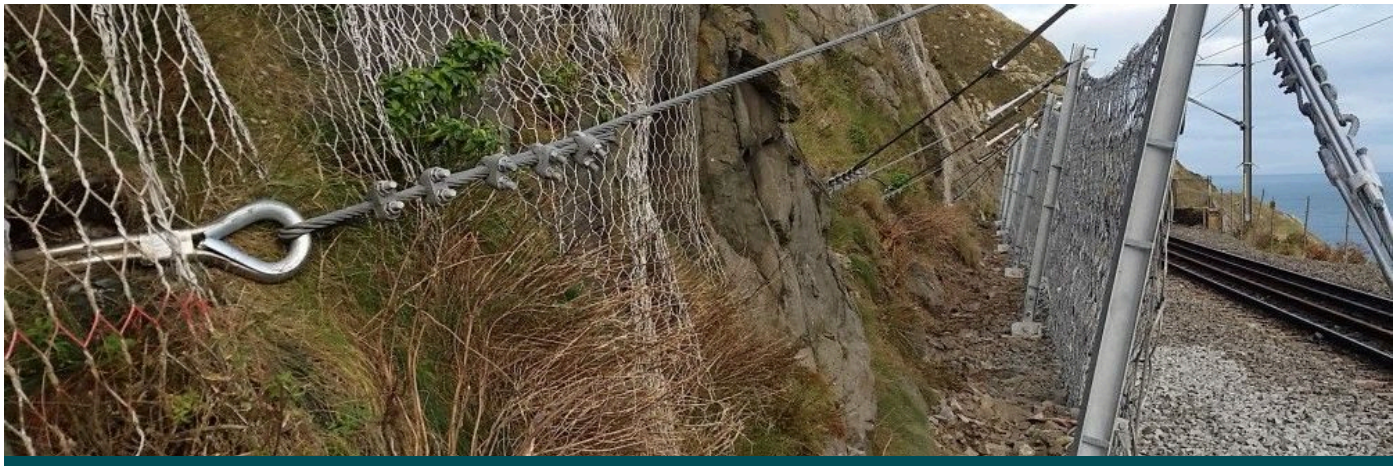
BRAY HEAD, IRISH RAIL_0



BRAY HEAD, IRISH RAIL_1

Solution

Irish Rail Infrastructure Department chose to stabilise the rock cutting with the Steelgrid HR 30 stabilisation netting system and to install a dynamic rockfall barrier at the toe of the cutting. Analyses of the likely impact scenarios suggested the system would require a Maximum Energy Level capacity of 3,000kJ. The mesh selected for the stabilisation netting system was the Steelgrid HR 30 kit. Mesh was supplied in 3.15x40m long rolls which suited the site geometry. The Steelgrid HR mesh was chosen due to its high punching resistance, high stiffness and quicker installation compared to other facing systems. The RMC 300/A rockfall barrier system was specified as the impact protection solution as it offered the required capacity, has ETAG 027 Class 6 certification, a class-leading residual height rating, the CE mark and has a proven track record for use in extreme impact environments. Compared to similar 3,000kJ catch fences, the RMC 300/A has 25% fewer anchors which means less drilling operation which was another bonus for the installation programme.



BRAY HEAD, IRISH RAIL_2

OPEN GOOGLE MAPS

OPEN GOOGLE EARTH

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