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## **HOBAS®** beneath the Pan-European Traffic Corridor IV SewerLine Pipes Transporting Silt and Stones in West Romania



The Romanian highway and road company CNADNR (Companiei Naționale de Autostrăzi și Drumuri Naționale din România) is currently establishing the highway A3 between Romania's capital Bucharest and the Hungarian border. This major project is undertaken in the course of the national government's infrastructural development propositions and shall be finalized by 2014. The around 600 km long highway will then be part of the pan-European Traffic Corridor IV traversing Romania from east to west.

engineering team for running through various grounds such as planes, mountainous areas, valleys and swamps. Once the highway is completed the travel time between Bucharest and the western border of Romania will be halved.



In Ip, a village in the northwest of the country, the highway crosses an old pipeline. During floods the line conveys large amounts of stormwater which also contains pieces of wood, silt and sharp stones. The line had to be replaced and the road company went about searching for a suitable material, durable enough to withstand the abrasion and to improve the water discharge. After a thorough comparison of materials and basing their choice also on past experience CNADNR and the engineering company opted for HOBAS Products. The available range of diameters, the leak tight couplings, the pipes' excellent hydraulic properties as well as their corrosion and abrasion resistance convinced the client to have found the optimal solution.

The construction company Bechtel is the main contractor for the A3 that posed some challenges to the

A 2 mm resin layer acts as protective shield on the inner surface of the HOBAS Pipe. This key factor regarding abrasion and corrosion resistance is uniquely applied with the centrifugal casting process and can be varied in thickness to suit the given requirements. Due to the earth movement in the area, the engineers decided to cast the pipeline in a concrete block. It was furthermore decided to play safe and install pressure



class 6 pipes since at times they would have to convey great amounts of water. Because of the challenging circumstances such as the high ground water level HOBAS Experts supported the construction team and offered the supervision on-site.

Thanks to the good cooperation between HOBAS Romania and the subcontractor SOCOT the installation works were successfully accomplished right on time. “The client and contractor are very pleased about the new HOBAS Pipeline”, states Bogdan Olaru, HOBAS Sales Representative at HOBAS Romania.

Overview	
Year of Construction	2008
Construction Time	3 months
Total Length of Pipe	70 m
Diameter	DN 1800
Pressure Class	PN 6
Stiffness Class	SN 10000
Installation Method	Open trench
Application	SewerLine®
Client	CNADNR
Constructors	Bechtel
Advantages	High corrosion and abrasion resistance, range of available diameters, low weight, hydraulic properties