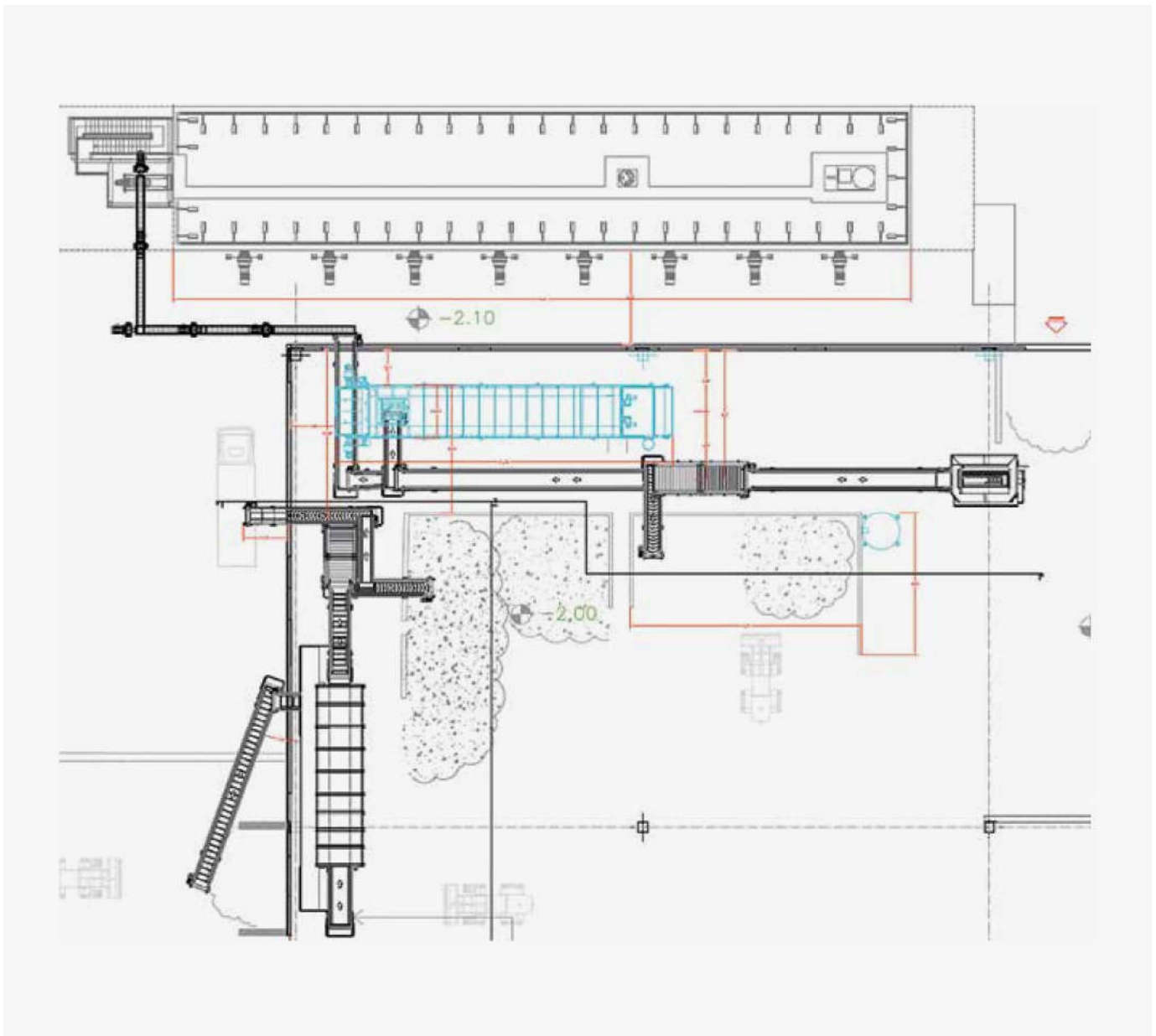


**75 ANZIO (RM) - ITALY**

Year	2017
Client	TONELLO ENERGIE Srl
Operator	ANZIO BIOWASTE Srl
System description	Dosing system, semi-dry anaerobic digestion
Waste processed	Organic source-separated waste
Plant capacity	40,000 t/year



Biogas is recovered from source separated organic waste with a semi-dry anaerobic digestion system, which is designed to process a high-solids feedstock and achieves a top biogas yield.



Source separated organic waste is processed by a pre-treatment line and loaded into a storage bunker, which automatically feeds the material to the digester. The digester vessel has the shape of an elongated parallelepiped and is made by steel-reinforced concrete.

Some slow-speed rotors, with a horizontal shaft driven by a planetary gear-motor, are provided inside the digester. The rotors agitate the material contained by the digester, which proceeds with a plug-flow pattern.

The organic material is heated by heat exchangers located along the longitudinal walls of the digester. The biogas extracted from the digester is treated with an upgrading system which produces pipeline-grade biomethane.

A small part of the produced biogas is used to fuel a boiler for generating the hot water required by the digester heating system. The digestate extracted from the digester is sent to a composting line.

