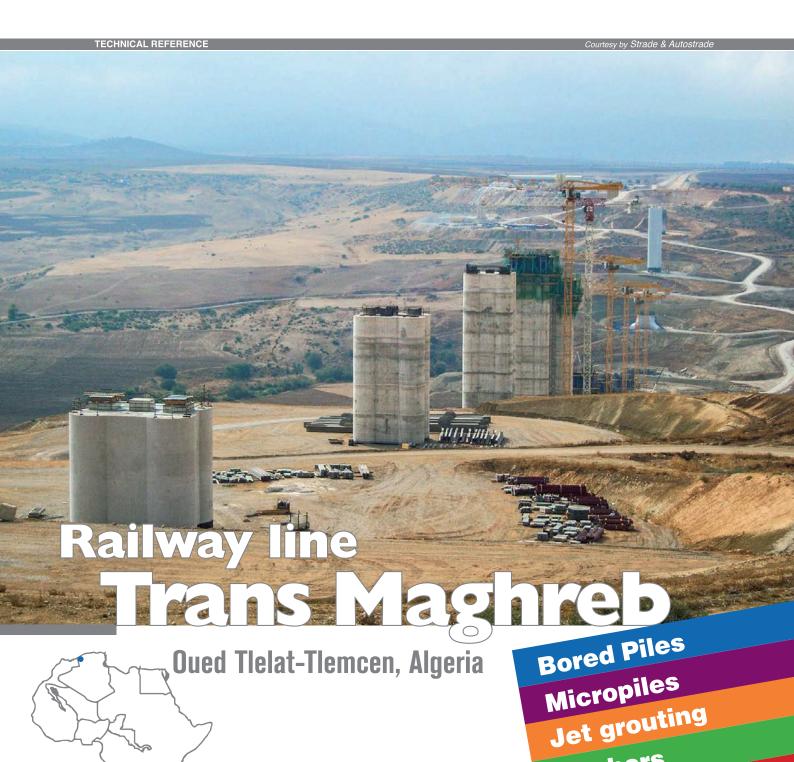


Anchors

Sheet piles



Owner : ANESRIF Agence Nationale d'Etudes et de Suivi de la Réalisation des Investissements Ferroviaires

Main Contractor : Consorzio CONDOTTE D'ACQUA - RIZZANI DE ECCHER

Duration of works: 2012 - 2017

Introduction

The new line of high speed railway, links Oued Tlelat (South-east of Oran) to Tlemcen (near the Moroccan border) extands over a path of 130 km and crosses the North-West of Algeria.

This important structure, situated approximatly near the great Sebkha of Oran taking part of the national plan for infrastructure and the railway network development and modernization that Algeria has already launched the last decade.

ANESRIF "Agence Nationale d'Etudes et Suivi de la Réalisation des Investisements Ferroviaires" has awarded this project to the the Italian consortium Condotte

The project

The "Exeptional" Viaduct, located about 35 km from Tlemcen city, has a length of almost 1800 lm and 16 spans variable between 85 and 114 lm.

The heights of the planned piles is also extremely variable, from 16 to 134 lm.

Under this project Trevi was in charge specifically of the piles 1200 mm diameter (a well between 15 and 38 meters long), micropiles 240 mm diameter (25 m long wells) and jet grouting.

These foundations are for wells, where the average diameter is 30 meters, consists of tangent piles 1200 mm with 40 meters as maximum depth.



d'Acqua - Rizzani de Eccher.

The project, whose total value stands at 1.5 billion euros, consists of theconstruction of a double track rail with electrification, telecommunication and signaling systems.

Due to its length and to the the varried orography that is relatively difficult, the work covers the construction of 56 bridge/viaduct, 1 gallery and 3 stations.

The most remarquable works were certainly the "Exeptional" Viaduct whose foundations are on a piles well and the "Special" Viaduct whose foundations are on a well of micropiles.

In areas where the presence of the water table is supposed important, during excavation the waterproofing inside the well was ensured by creating a screen of jet grouting columns placed behind the piles.



Trevi work

The work consists of special deep foundations of Bored Piles, Micropiles, Jet Grouting columns, Ground Anchors and subhorizantal Drains type.

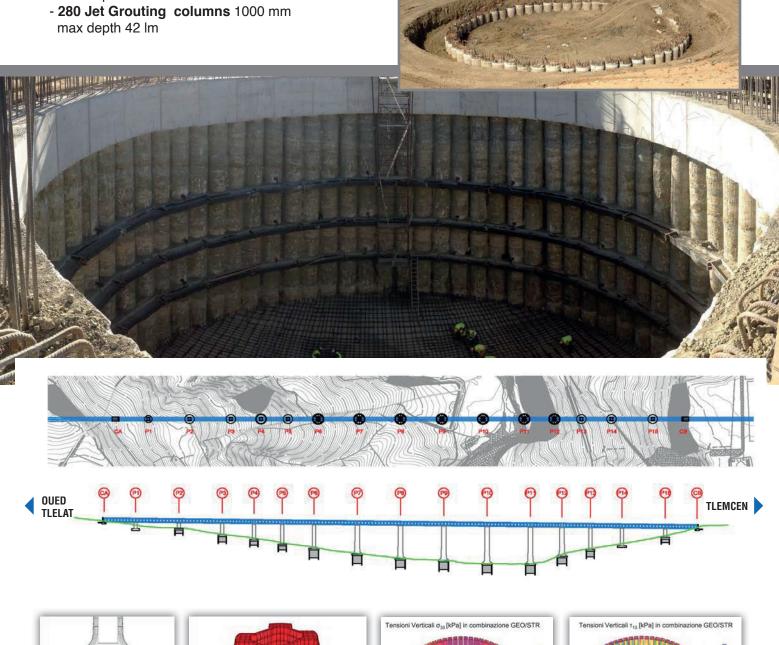
Bellow are the quantities:

- **65.936 Im Micropiles** Ø 240 mm max depth 30 lm
- **108.125 Im Bored Piles** 1200 mm max depth 40 lm

3,00 m 2,00 m

PAROI EN PIEUX Ø 1200

- 12.431 lm Ground Anchors Ø 127 mm, max length 33 lm
- 245 lm subhorizontal Drains \varnothing 76 mm max depth 05 lm.
- 1.536 m² Sheet piles







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