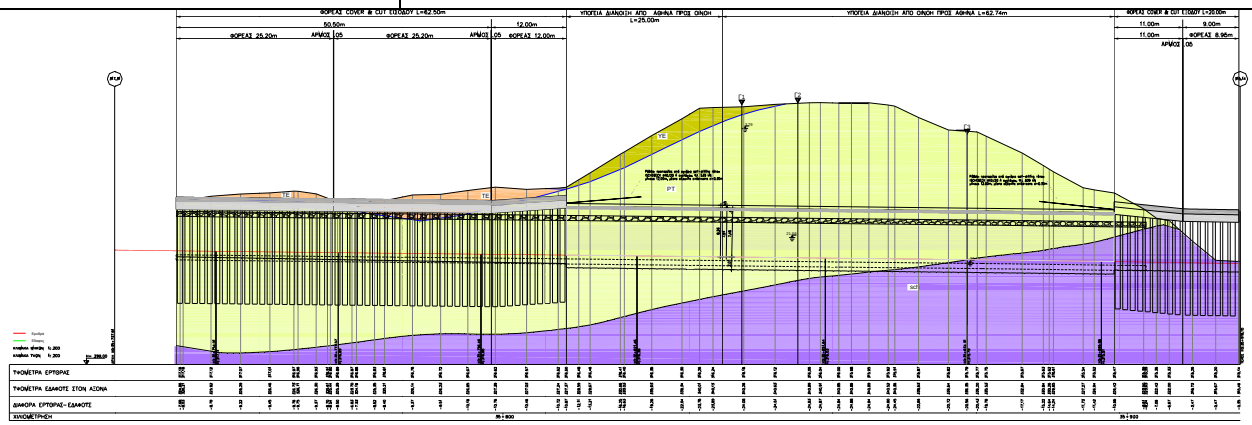
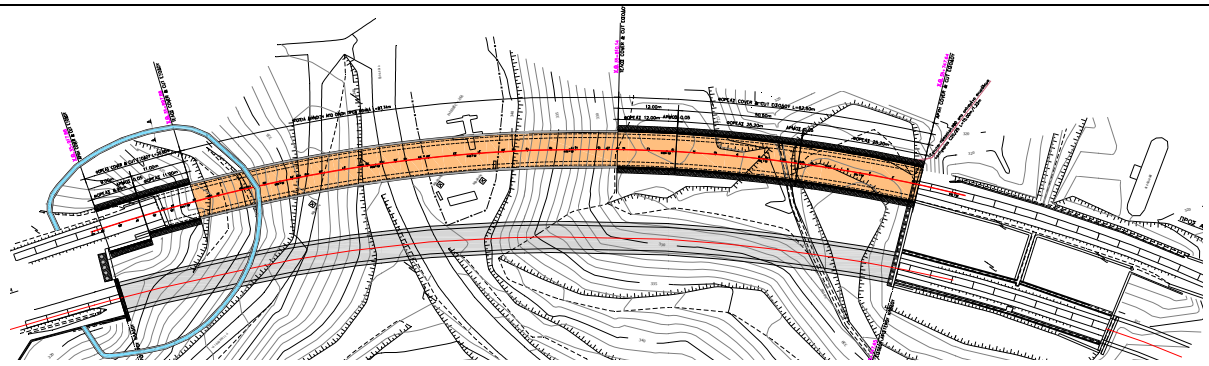
ΔΟΜΟΣΤΑΤΙΚΕΣ ΜΕΛΕΤΕΣ Α.Ε.
STRUCTURAL DESIGN S.A.

ASSIGNMENT NAME:	**Rehabilitation of Ag. Stefanos Railway Tunnel**
Country:	GREECE
Location:	Ag. Stefanos
Client:	ERGA OSE S.A.
Start date (month / year):	2009
Completion date (month / year):	2010
Other members of partnership (if any):	-
Consortium Leader:	G. Parigoris
Construction Cost (€):	2.069.380,00 €
Value of the Services provided / Participation	Geotechnical Design (21) 15.925,00 € / 100% - Structural Design (8) 8.575,00 € /100%
Assignment state:	The final design has been approved





Narrative description of Project:

The study for the rehabilitation of the Ag. Stefanos Tunnel includes the rehabilitation of the damaged final masonry lining with a widened cross-section through the complete length of the tunnel.

The tunnel length is 170,24m. and is divided to a section to be constructed as a cover & cut structure due to low overburden, with a length of 62,50m, a middle section with underground excavation with a length of 87,74m and a final exit structure of 20m. length to be constructed also as a cover & cut.

Description of services provided within the assignment:

The deliverables included the evaluation of the geotechnical investigations as well as the design for the preliminary support according to the NATM for the widening of the tunnel.

As far as the final (inner) lining is concerned, statical calculations were performed. The analysis included the bored tunnel sections as well as the cover & cut structure, which consists of two parallel sheet pile-walls connected via a roof plate.