



# LINE 4<sub>A</sub>

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MINISTRY OF  
INFRASTRUCTURE  
AND TRANSPORT



WITH CO-FINANCING OF GREECE AND THE EUROPEAN UNION



## PROJECT: PRELIMINARY WORKS



ELIKONOS Station

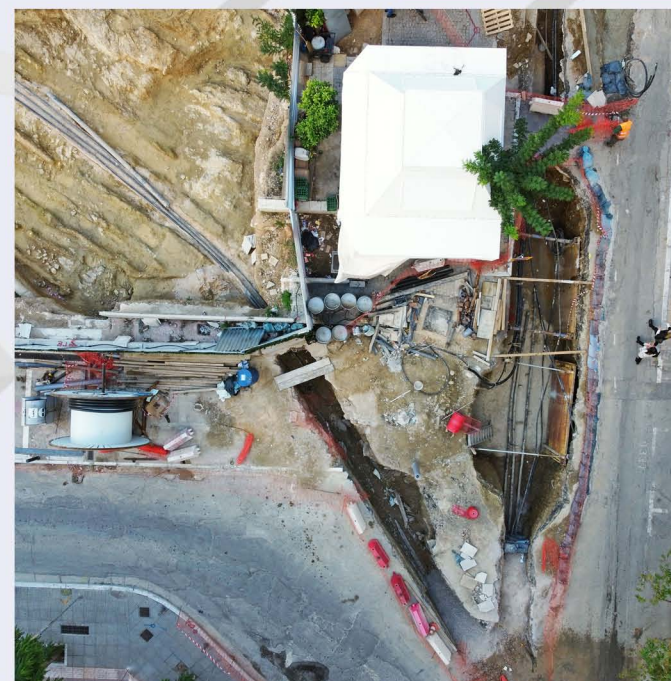
## RELOCATION OF PUO NETWORKS

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In GALATSI Station, the works for the diversion of natural gas network continue, while in DIKASTIRIA Station, works for the diversion of OTE network and works for the diversion of EYDAP network  $\Phi 1300$  pipes are also in progress.

Moreover, in KOLONAKI Station works for the diversion of DEDDIE high and medium voltage networks and OTE network.

In AKADIMIA Station, works for the diversion of the natural gas network are being carried out adjacent to the Cultural Center of the Municipality of Athens and in Sina Street.



Worksite relocation works in KOLONAKI Station.

## TRAFFIC REGULATIONS

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In TBM Veikou Shaft, further to the completion of the traffic diversions implemented along Veikou Avenue, works are in progress for the new junction in Christianoupoleos Street. Moreover, works for the reinstatement of the sidewalks at sections of Veikou Avenue and Egosthenon Street continue.



Sidewalk reinstatement in GALATSI Station.



## TRANSPLANTING WORKS

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Transplanting works in PANEPISIMIOUPOLI Station.

In the framework of the preliminary works contract, transplanting works continue and more precisely, at the worksites of DIKASTIRIA, ILISSIA, ZOGRAFOU and GOUDI Stations. Tree removal and transplanting works were carried out where possible. Trees are transplanted at areas selected by the relevant Municipalities, depending on each municipality's needs.



Transplanting works in PANEPISIMIOUPOLI Station.

## ARCHAEOLOGICAL WORKS

Archaeological works with investigation trenches are in progress in GALATSI, ELIKONOS, EXARCHIA, KAISARIANI, PANEPISIMIOUPOLI, ZOGRAFOU Stations and VIVLIOTHIKI Shaft. Moreover, archaeological works were interrupted in KYPSELI Station until the commencement of the traffic regulations that will be implemented in the area.



Archaeological sections in GALATSI Station.



**KATEHAKI TBM Shaft**

## VEIKOU TBM SHAFT

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Following the completion of the preliminary works in TBM Veikou Shaft by the Contracting company ERETVO S.A., the worksite was handed over to the Contracting Joint Venture AVAX S.A. -GHELLA SpA-ALSTOM TRASPORT S.A. for the construction works of the project to be continued.

More precisely, area configuration works were performed so that the pile construction drilling machines would immediately commence the pile construction works at the Shaft where the second TBM will be deployed.

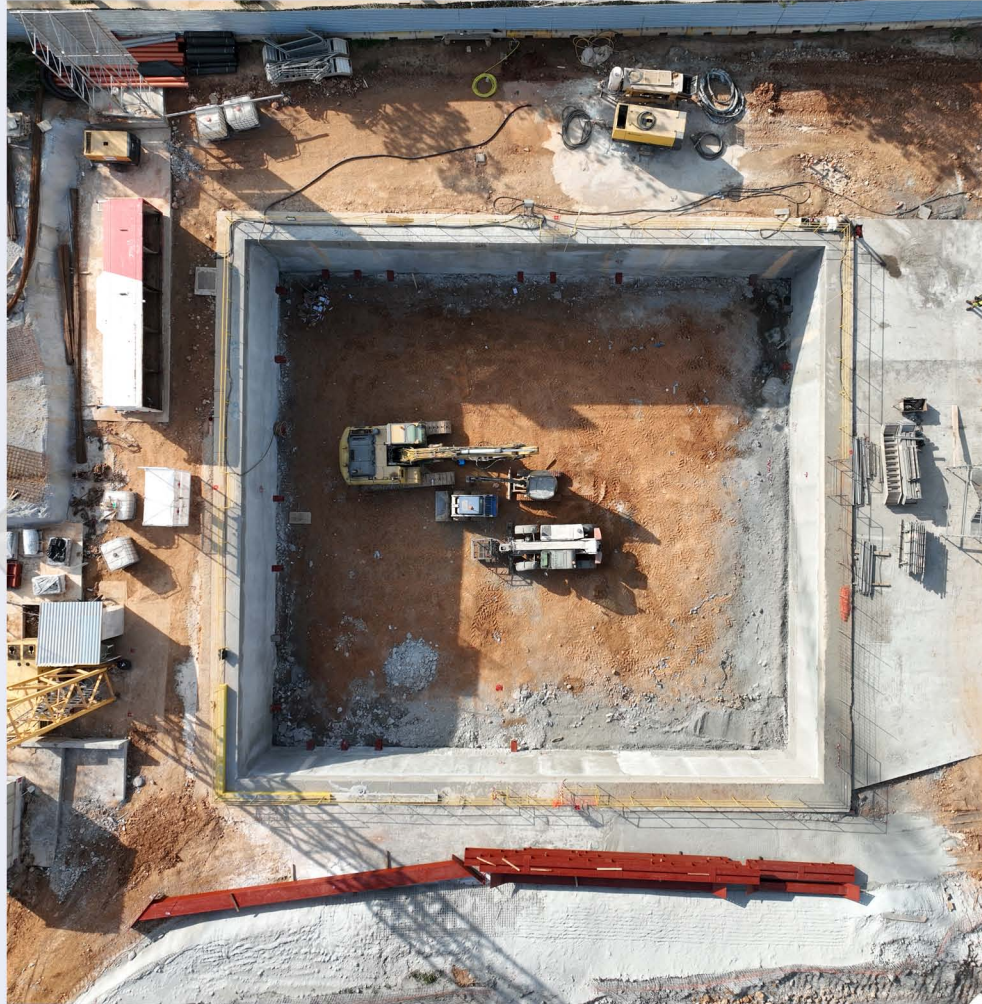


Pile drilling in TBM Veikou Shaft.



## GNA SHAFT

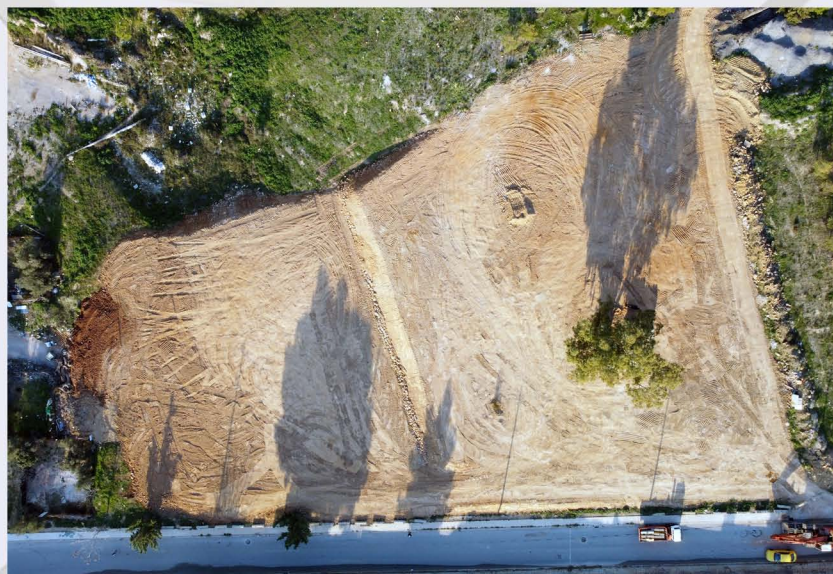
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Excavation of the 1st level in GNA Shaft.

At GNA Shaft, the excavation of the 1st level of the shaft using hydraulic hammer has been completed. The excavation percentage of the shaft now reaches 12%. Moreover, the installation of support where the steel struts shall be seated is in progress.

## WORKSITE OFFICES OF THE CONTACTING JOINT VENTURE



Ground configuration for the foundation of the worksite central offices of the Contracting Joint Venture..

The location of the central worksite offices and facilities of the Contracting Joint Venture responsible for the construction of Line 4A has changed. A new area is being configured adjacent to OLYMPIAKA AKINITA premises in the municipality of Galatsi.

## KATEHAKI TBM SHAFT

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TBM Katehaki Shaft.

In December, the works for the welding of the cutter head of the first TBM were completed, while works for the welding of the tail shield continue.

At the same time, the excavation of the 12th level of the shaft is underway while the total excavation percentage now reaches 80%.

At the south front of the shaft, the works for the construction of a small 12m long tunnel have commenced. The tunnel for the entrance of the TBM will be bored using conventional mechanical means and the tunnel boring shall include the following basic works, namely:

Installation of forepoling umbrella, installation of fiberglass nails and boring of drainage – relief holes.



Visit of NTUA students in TBM Katehaki Shaft.

On the occasion of the arrival of TBM sections at the worksite, a technical visit of the students of the National and Technical University of Athens – School of Civil Engineering was carried out at the worksite. Students had the opportunity to be informed on the construction progress of the shaft, as well as on the assembly phases of the first TBM which will start its journey from Katehaki Shaft.



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## LINE

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#### NEWSLETTER LINE 4A

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*\*All photos used have been taken from the archives of AM (unless stated otherwise).*

*\*\*Cover page photo: Pile boring in TBM Veikou Shaft and relocation of reinforcement cages.*

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