



LINE 4_A

VOLUME 1

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MINISTRY OF
INFRASTRUCTURE
AND TRANSPORT



WITH CO-FINANCING OF GREECE AND THE EUROPEAN UNION

PROJECT: PRELIMINARY WORKS



RELOCATION OF PUBLIC UTILITY ORGANIZATIONS (PUO) NETWORKS

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Works for the relocation of PUO networks at Alexandras Avenue.

Athens Metro Line 4 (Section A'), the Greece's largest traffic and environmental project ever executed in an urban environment, has commenced. Line 4A will give breath to many densely populated regions of Attica Basin with poor public transport services. The first worksites have already been deployed and preliminary works commenced on the beginning of summer.

The scope of the preliminary works includes topographical surveys, traffic studies and designs for the relocation of the existing PUO networks that cross the excavation profiles of the shafts and stations.

WORKSITE DEPLOYMENT

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Fencings have been installed at various locations of the city (Academy of Athens, Courts, Evangelismos, Veikou Avenue, Katehaki Avenue) to delineate worksite areas.

The worksites for the preliminary works shall remain active in the municipalities of Athens, Kessariani, Zografou and Galatsi for the next 30 months.



Tiles being removed in the Academy of Athens.



Installation of metal sheets at Evangelismos.



ARCHAEOLOGICAL WORKS

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The Athenian earth holds in her bosom traces of older eras of the city, a city that still remains the symbol and the guardian of universal cultural heritage.

The construction of the Metro brings to light significant finds encountered during the archaeological excavations and, thus, contributes significantly to the revealing of the history of Athens.

In full respect to the cultural heritage, ATTIKO METRO S.A. in cooperation with the Ministry of Culture and the Archaeological Department make coordinated efforts to reveal, transport and preserve the archaeological finds.



Archaeological excavation trenches.

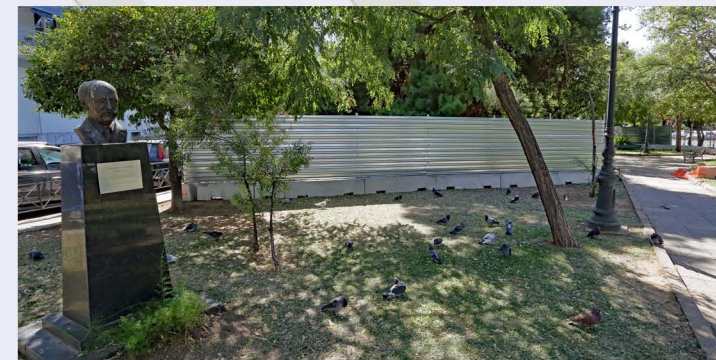


Archaeological excavation trenches.

Archaeological activities include investigation works, inventory works, excavation works, preservation, detachment, transport, safe keeping – temporary storage and placing back of the archeological finds.

TRANSPORT AND STORAGE OF STATUES

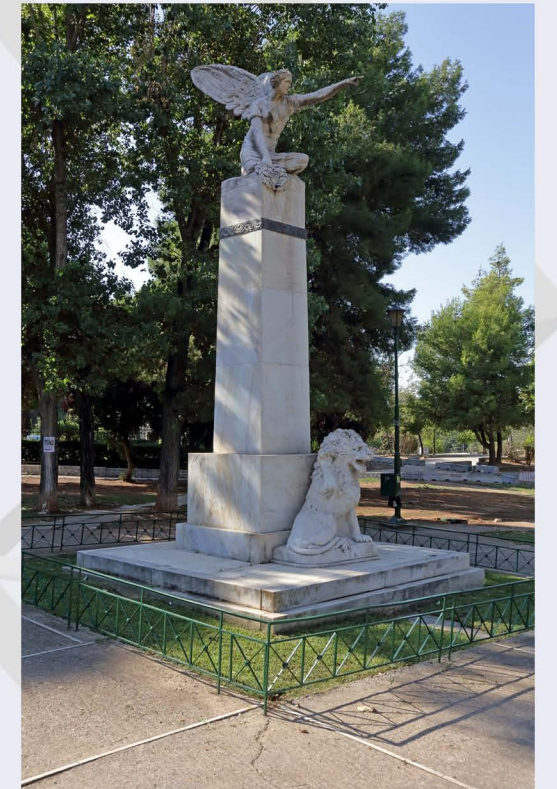
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Evangelismos Trumpet Shaft.

The contract for preliminary works includes, inter alia, transport, relocation and temporary storage of statues, busts and works of art found within the boundaries of the worksites, in order to ensure the unobstructed continuation of the works.

Statues shall be stored at areas that each municipality will designate and shall be placed back after the end of the works.



Monument dedicated to the memory of the Reserve Officers.



Katehaki Shaft

GEOLOGICAL AND GEOTECHNICAL INVESTIGATION

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Borehole samples from Kypseli Station.



Sample taken immediately after the drilling.



Sampling drilling rig.

Line 4 – a 12.8 km long line.

In order to define the geological and geotechnical conditions, sampling boreholes have been executed all along Line 4_A. The main purpose of the boreholes is to identify all those characteristics necessary to ensure the most safe and economic execution of the Project.

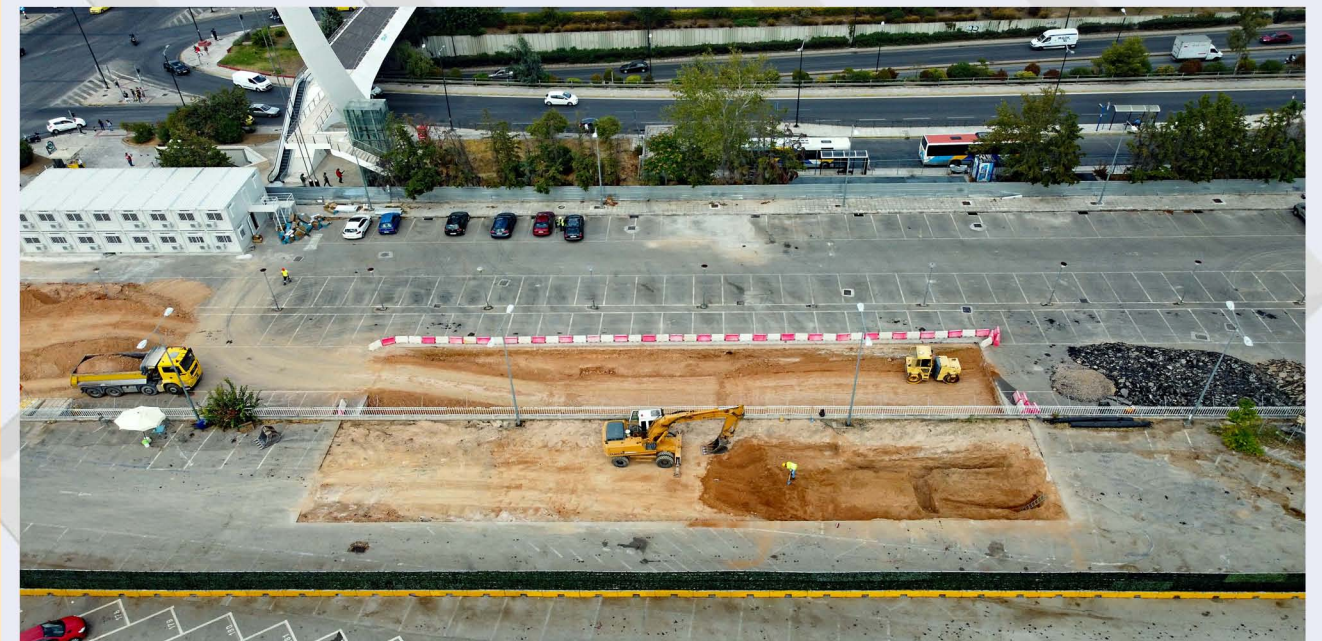
The Contracting Joint Venture prepares the Complimentary Ground Investigation and evaluates all available ground investigation data (from the current and previous ground investigation phases) in order to identify the required design parameters for all Project sections.



Borehole in progress.

SETTING UP THE 1st WORKSITE OF LINE 4_A

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Katehaki TBM Shaft.

The first worksite of Line 4_A was set up to house the installation of the 1st Tunnel Boring Machine (TBM). It is located at the former Metro parking area at the junction of Messoghion with Katehaki Avenues, next to Katehaki Metro Station, occupying also a section of the yard of the 401 General Military Hospital of Athens. Katehaki TBM Shaft shall be constructed using the Cut & Cover method. The TBM shall be assembled in this shaft from where it will commence the excavation of approximately half of the Project tunnel. In the future, Line 4 KATEHAKI Station shall be constructed in this location and shall be connected with the existing Station of Line 3.



The first worksite of Line 4_A.

ATTIKO METRO S.A.



LINE

A landmark Project becomes real!

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