

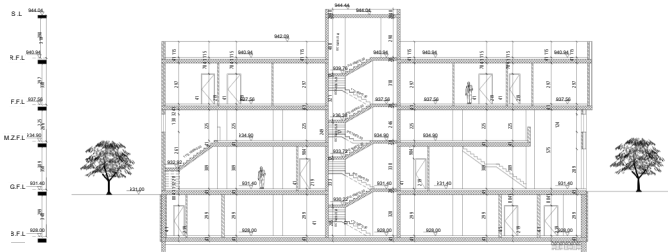
Landmark Commercial Development in Amman

Overview

DRAB embarked on and completed the full architectural and detailed design for the landmark commercial development, establishing the project's spatial identity and technical framework before advancing into construction supervision. Rising on a prominent site in the heart of Amman, the development reflects a contemporary expression of architectural clarity, structural refinement, advanced geotechnical interpretation, and multidisciplinary integration. With design concluded, the project now proceeds into supervised execution on site.

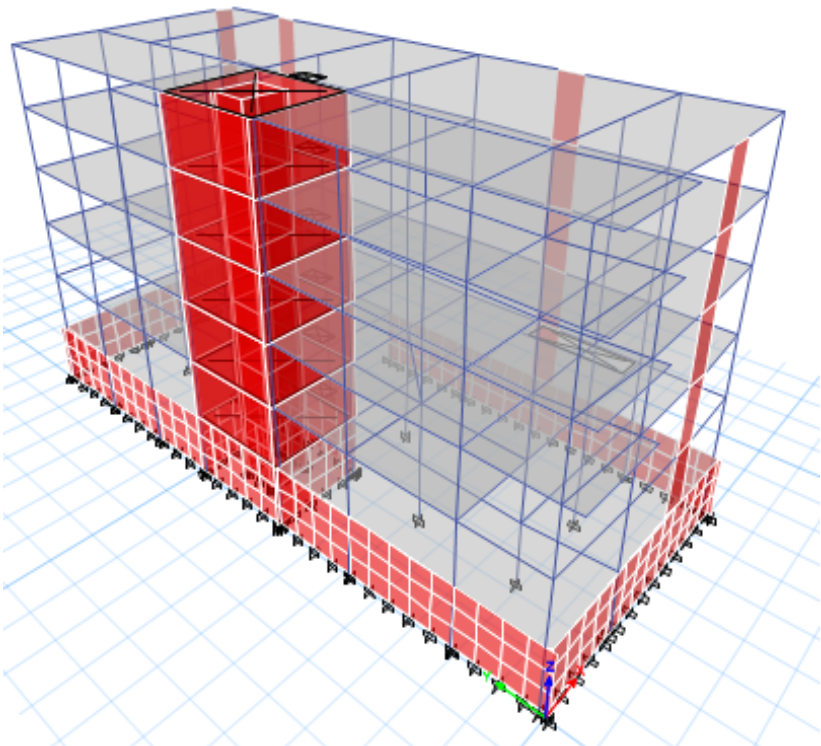
Architectural Design

The architectural vision was shaped through a series of high-resolution 3D studies that explored massing, façade articulation, natural lighting, and the spatial rhythm of the building. The design balances functional efficiency with a modern commercial identity, producing a composition defined by proportion, light, and clarity. Detailed sectional perspectives further refined interior circulation, vertical connectivity, and the relationship between public and private zones. The resulting architectural language serves as the foundation upon which all engineering disciplines aligned their work.



Structural Engineering

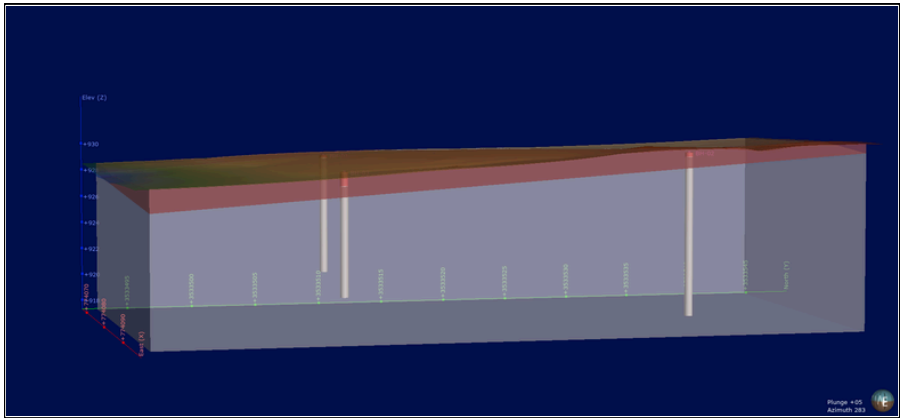
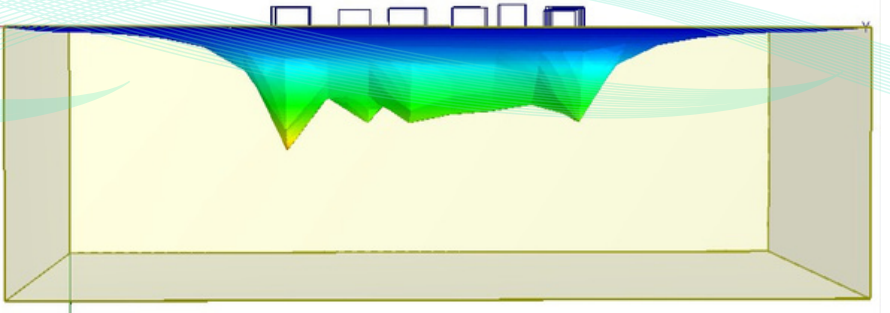
A full 3D structural analysis model was developed to interpret the behavior of the superstructure under gravity, lateral, and dynamic actions. The model harmonized architectural grids, vertical circulation cores, transfer elements, and lateral force systems into a cohesive structural framework. The competence of the limestone beneath the site allowed for an efficient distribution of loads and a clear load-path strategy, minimizing deformation and optimizing structural performance. Coordination between structural, architectural, and geotechnical teams ensured that the structural system supported the architectural form without compromise.



Geotechnical Design

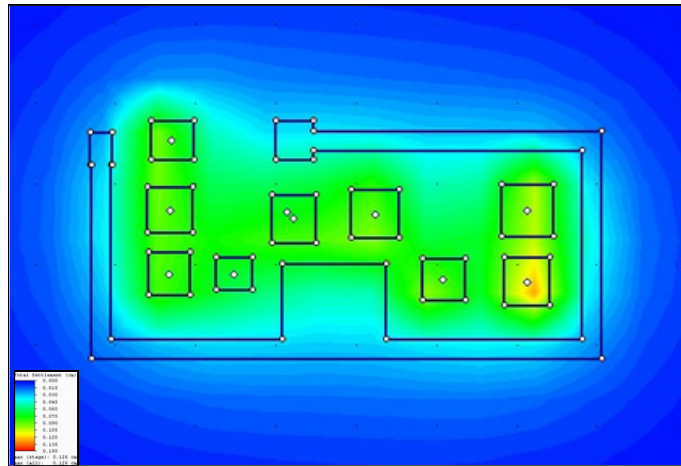
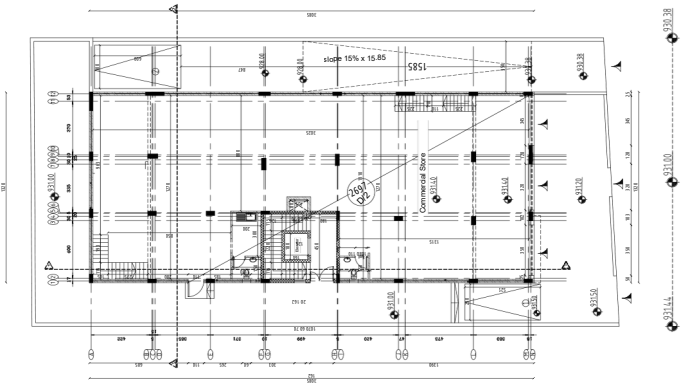
The project rests upon a geological landscape shaped by the weathering of Cretaceous limestone formations. A detailed geotechnical investigation revealed a stratigraphy composed of surface soils overlying medium to very strong Chalky to Micritic Limestone interbedded with thin marly horizons, a geological sequence characteristic of the region. The investigation confirmed the absence of groundwater and identified competent bearing strata suited for shallow foundations.

Through the combined interpretation of FEM outputs and subgrade reaction behavior, DRAB defined the ground's capacity with clarity and used these insights to refine the foundation geometry and reinforcement. This approach ensured a solution that remains structurally sound, materially efficient, and fully aligned with the safety and performance requirements of the project.



Mechanical, Electrical, and Plumbing Engineering

The electromechanical systems were developed within a coordinated digital environment to ensure precision, resilience, and long-term operational performance. Power distribution networks, HVAC systems, drainage routes, firefighting infrastructure, and ELV services were modeled to achieve optimal spatial compatibility with architectural and structural elements. Automated coordination tools resolved system interfaces, improved routing efficiency, and safeguarded design clarity. The resulting MEP framework supports the functional and environmental requirements of the development while maintaining architectural integrity.



From its foundations carved into native limestone to its architectural expression above ground, the development stands as a testament to DRAB's commitment to excellence in design, engineering, and supervision. It marks a new milestone in Amman's commercial landscape, shaped by geology, informed by engineering, and realized through DRAB's pursuit of precision and quality