

Royal West Mall MEP Design

Complete MEP engineering design for a mixed-use retail, medical & office development in 6th of October City

5
BUILDING LEVELS

Core & Shell
MEP SCOPE

12+
MEP SYSTEMS DESIGNED

6th of October
PROJECT LOCATION

PROJECT OVERVIEW

Royal West Mall is a large-scale mixed-use development located in 6th of October City, Egypt. The project comprises one basement level, a ground floor, and three upper floors, providing commercial, medical, and service facilities within a modern mixed-use development. Mirage Consulting Group delivered the complete MEP engineering design for the Core & Shell works.

KEY FACTS

 Basement Level Parking, MEP & back-of-house	 Ground + 3 Floors Retail, medical & office space
 Mechanical Systems Plumbing, fire fighting, AC & vent.	 Electrical Systems Power, lighting & light current

DESIGN APPROACH

The MEP systems were designed in accordance with applicable international and Egyptian codes and standards, including ASHRAE, NFPA, IPC, and the relevant Egyptian Codes — providing safe, reliable, and efficient building services while ensuring occupant comfort, ease of operation, and long-term maintainability, with particular attention to energy-efficient system selection and reduced lifecycle costs.

SCOPE OF WORK

- Plumbing — water supply & drainage systems
- Fire fighting system design
- Air conditioning & ventilation systems
- Lighting, power distribution & HVAC power feeding
- Cable routing, cable trays, SLDs & panel schedules
- Fire alarm, data network, sound system & CCTV

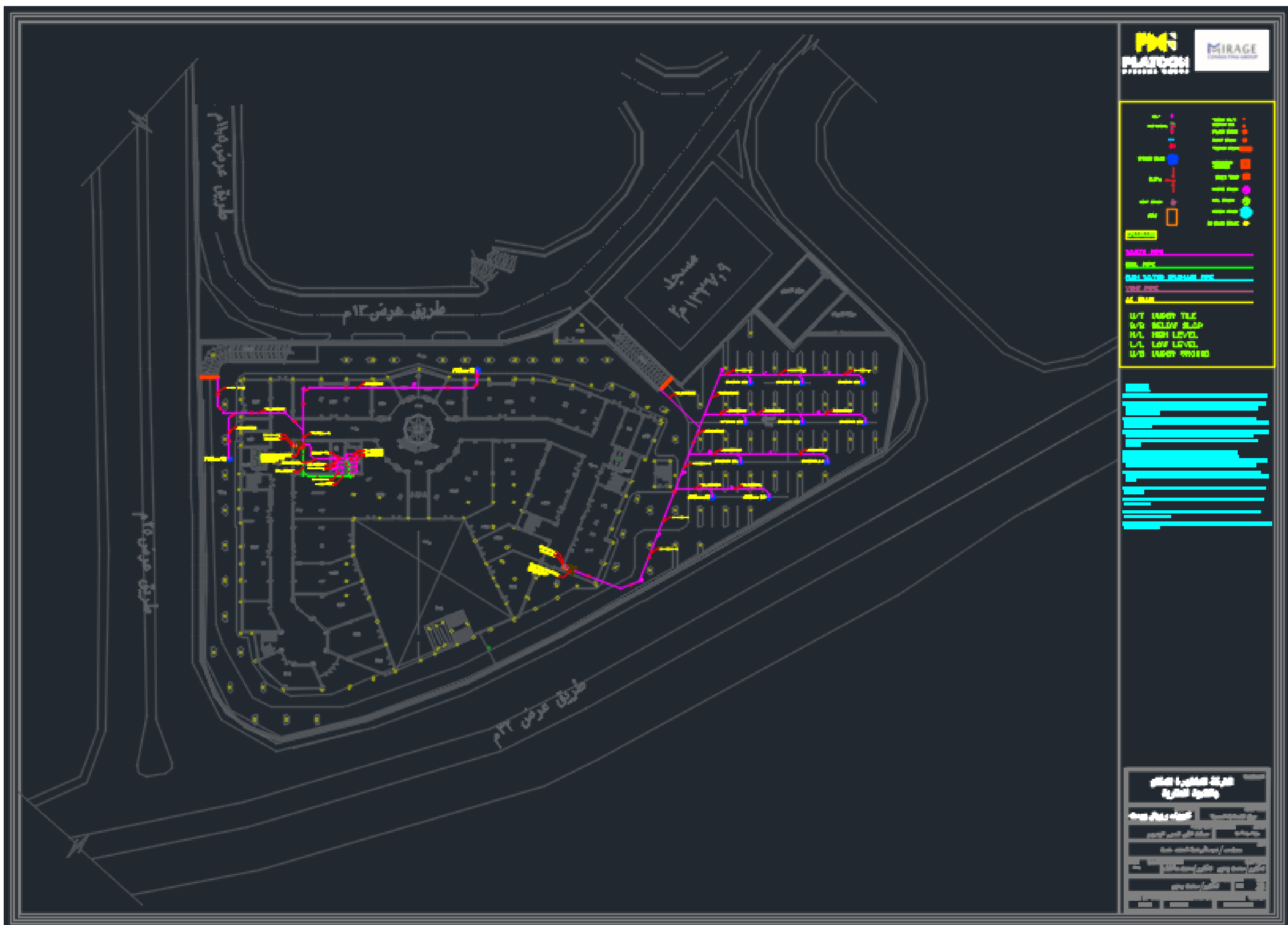
DELIVERABLES

- Complete MEP design drawings
- Engineering design calculations
- Equipment selection and sizing
- Bills of Quantities (BOQs)
- Tender and construction documentation

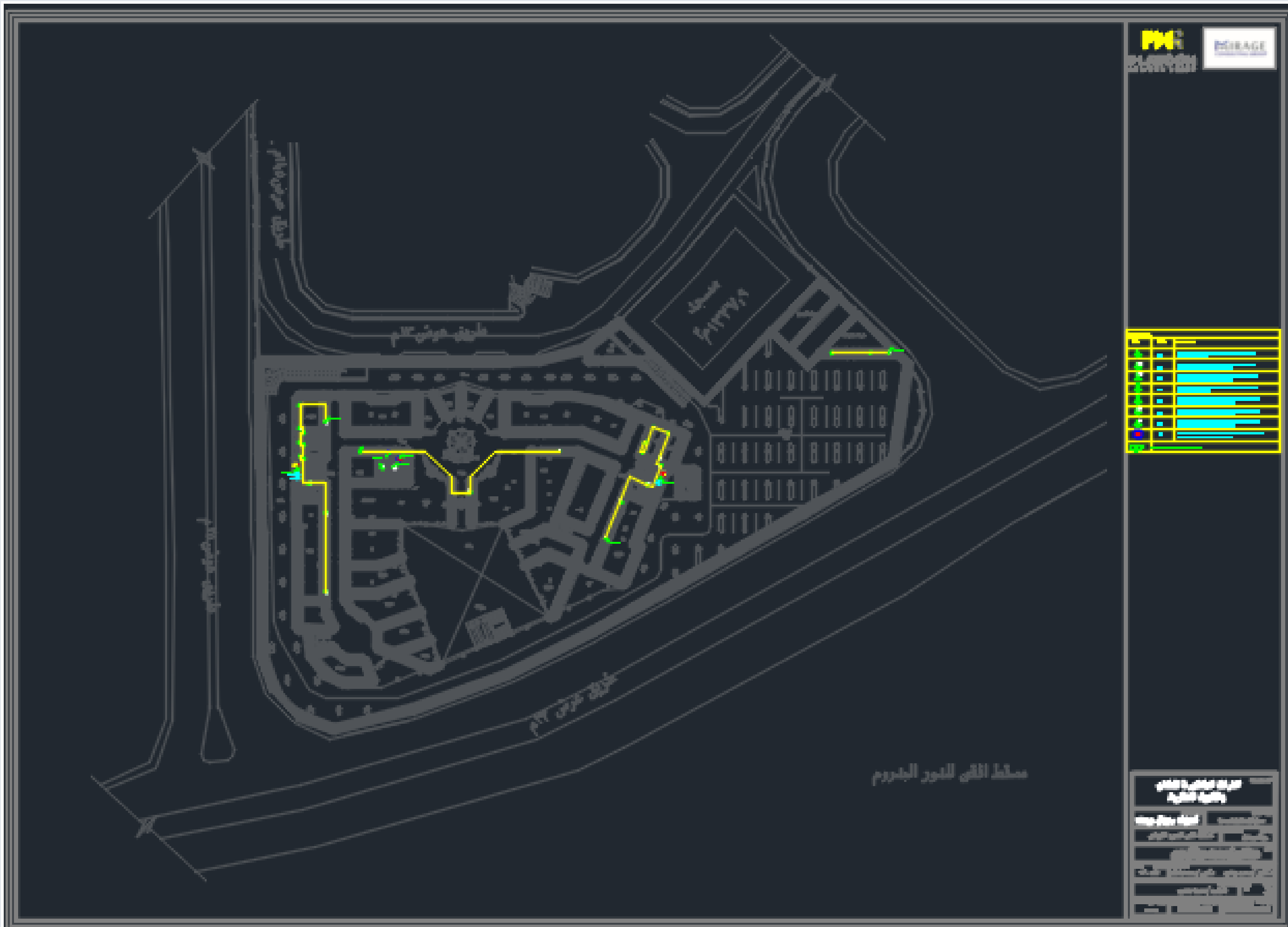


HVAC and Pipes work

PROJECT VISUALS



Site-wide drainage & MEP infrastructure master plan



Site-wide electrical power distribution & cable routing