



Combined Arms Military Operation in Urban Terrain, Phases I-III

Architects Mosher Drew was the lead design firm for this project from concept drawings to final as-built documents. In the early stages of the project, Mosher Drew also provided design, field investigation, engineering services and conducted a Functional Analysis Conceptual Design (FACD) to determine the user goals for the project.

Phase I

This phase, the Urban Core, constructs the first major component of the Primary Town of a realistic urban environment to train troops in the skill of urban combat warfare. It includes single and multi-story (3-5 story) reinforced concrete buildings with seismic upgrades, reinforced concrete foundations, and concrete slabs on grade. Construction includes a variety of building types and plan configurations consisting of partitions constructed with exterior grade plywood over metal studs. The site plan was designed for 54 concrete buildings, 102 conex buildings and 52 modularly buildings on a 28-acre site. The site included primary and secondary streets radiating from a central circular intersection.

Phase II

The second phase in the Combined Arms M.O.U.T. planned and constructed the next layer of the suburban districts. This phase is located adjacent to the recently completed Urban Core and simulates a variety of buildings found in districts surrounding a downtown area in a third world country. The project site is made up of three districts: The Hospital District, The Old Town District and The East Stadium District. Each district is connected to the Urban Core by a bridge over the dry river bed.

Phase III

This project is the third and final phase in the Combined Arms M.O.U.T., a realistic urban environment to train troops in the art of urban combat warfare. Adjacent to the recently completed Phase I Urban Core and Phase 2 Suburban Districts, this portion simulates a variety of buildings found in districts surrounding a downtown area in a third world country. Each building is configured to perform different types of training functions which simulate various urban and suburban settings.

PROJECT STATS

Owner: Naval Facilities Engineering Command

Location: Twentynine Palms, California

Construction Cost: \$55,158,000

Initiation / Completion Dates:

Design began in 2006

Construction completed in 2011

Size: 310 acres

Key Staff: Paul Lorhan, AIA

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ARCHITECTS
**MOSHER
DREW**
DESIGN - PLANNING