

Phoenix Crime Lab, Phoenix, Arizona

PROJECT

Phoenix Crime Lab

LOCATION

Phoenix, AZ

OWNER

City of Phoenix

ARCHITECT

Durrant

ENGINEER

KPFF Consulting Engineers

CONSTRUCTION

MANAGER

Gilbane

**CONCRETE
PRECAST/PRESTRESS
PRODUCER**

Corelab Structures,
Phoenix, AZ

**LIGHTWEIGHT
CERAMIC AGGREGATE
PRODUCER**

Utelite Corporation

Self-Consolidating Lightweight Concrete Prestressed Double Tees Address Load Requirements



Aerial view of Phoenix Crime Lab, Phoenix, AZ

The underground parking structure for Phoenix Crime Lab had a unique design challenge. The top level was designed to be a street level plaza that would include a xeriscaped garden, trees and planter boxes.

This environmentally sound design reduces urban heat islands while adding aesthetic appeal to Phoenix's bustling downtown community.

Self-consolidating lightweight concrete with Utelite Expanded Shale Aggregates was used in the production of prestress double

tees to accommodate the large amount of structural steel needed to address the project's load requirements.

PROJECT REQUIREMENTS

- Initial concrete stripping strength — 5200 psi/16 hours
- Design F'c strength — 7000 psi/28 days
- Design equilibrium density — 118 lb/ft³
- Structural self consolidating lightweight concrete spread range of 26 – 28"

For Additional Information About the Advantages and Applications of ESCS,

Utelite Corporation

PO Box 387 • Coalville, UT 84017-0387

Shipping: 6375 West 3 Mile Canyon Road

Ph: 801-467-2800 • Coalville: 435-336-5301 • Fax: 801-359-8541

Website: www.utelite.com . Email: utelite@allwest.net

Expanded Shale, Clay and Slate Institute

Suite 102 • 2225 Murray-Holladay Road • Salt Lake City, Utah 84117

801-272-7070 • Fax 801-272-3377 • e-mail: info@escsi.org

www.escsi.org