



## Acrow Superprop® Shores Support Highway Rehab Efforts in Tulsa, Oklahoma

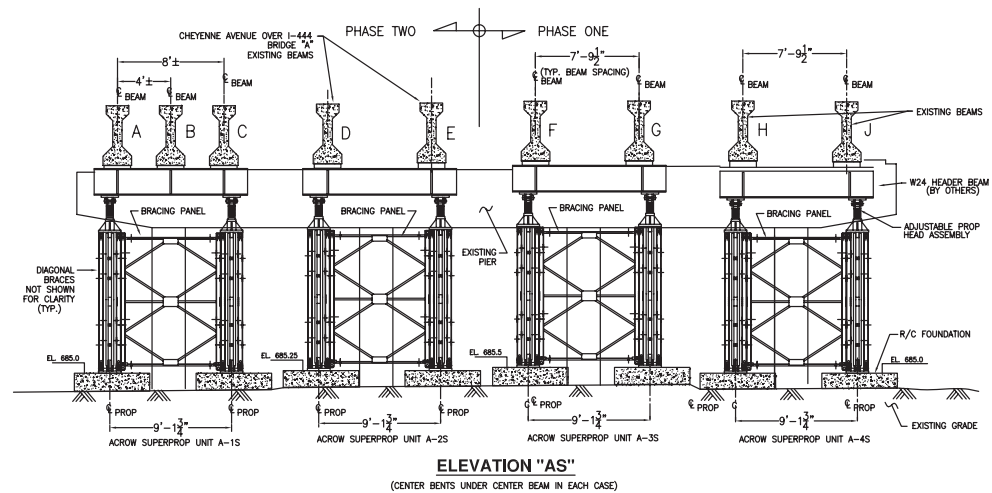
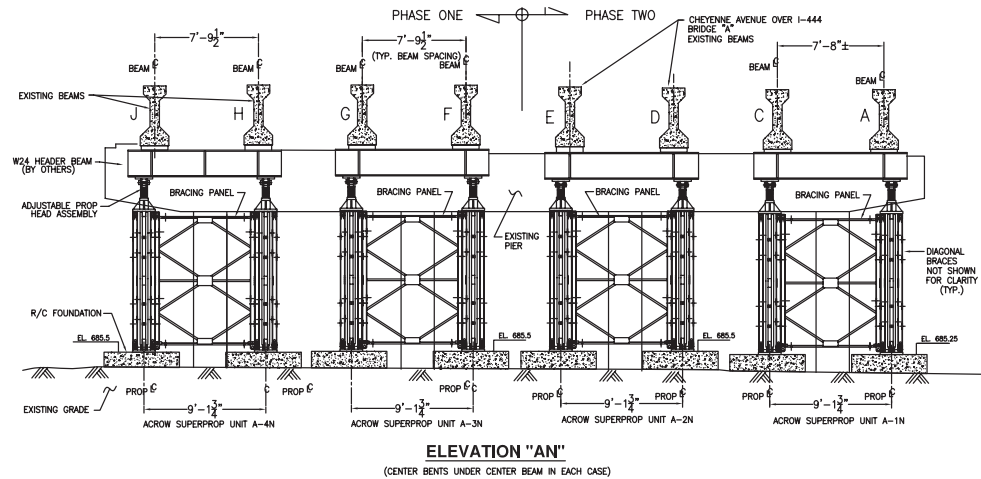
System addresses problem of failing piers and pier caps during major ODOT project

Bridge deck replacement and surface repairs were a major part of the \$75 million project to rebuild the north and west legs of Tulsa's Inner Dispersal Loop. In three locations underneath bridges on I-444, piers and pier caps were worn out and began to fail during repair. Acrow's temporary Superprop® Shores were rented to provide emergency support to the concrete girders and decks.

Assembled from Acrow bridge components, a single Superprop® Shore can support up to 270 tons. By bracing single Superprop® Shores with Acrow panels, a shoring system with superior strength and simplicity in design can be used in any vertical, horizontal or knee-bracing application.

The tight configuration of the converging routes meant a very constricted work footprint in the narrow median between two highways. Easily transported and rapidly installed with minimal equipment and labor, Acrow's components proved the ideal solution. Additionally, Acrow's engineering team was able to quickly react to a design change mid-project and re-engineer the installation and support system.

Acrow's rental program and its ability to provide crucial structural components quickly and economically meets or exceeds the needs of state departments of transportation and contractors alike.



## Specifications

Superprop Shores® are configured as braced props to provide resistance to horizontal loads and overall stability.

### Superprop® length:

Cheyenne Ave. over I-444: 10' (3.05m) high with adjustable screw assembly

Main St. over I-444: 20' (6.1m) high with adjustable screw assembly

Boston Ave. over I-444: 10' (3.05m) high with adjustable screw assembly

### Design load:

AASHTO LRFD for Highway Bridges

### Superprop® design:

- (A) Truss, panels, bracing and reinforcing chords to AASHTO M223 GD 65
- (B) Screw crown assembly to AASHTO M223 GD 50
- (C) Chord brace and sole plates to AASHTO M223 GD 50
- (D) Panel pins to ASTM A193 GD B7
- (E) Bolts to AASHTO M164M - A325