

## SafeBase™ Push Piers

### Visalia Fleet Maintenance Building – Visalia, CA



*Before & after sinking foundation lift & stabilization*

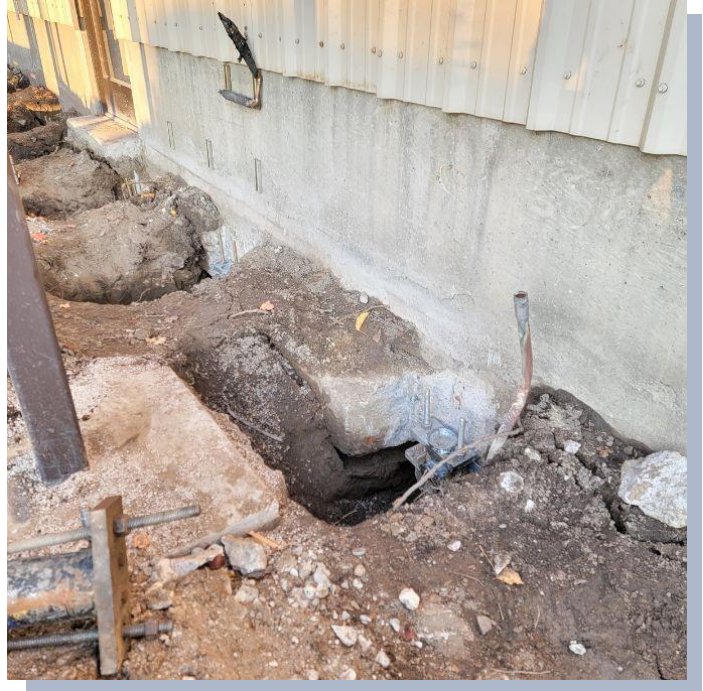
*November 2023*

The city of Visalia's Fleet Maintenance building, a central hub for the city's essential trucks and equipment, was facing severe settlement issues. A combination of both persistent drainage issues and the continuous movement of heavy vehicles across it left the slab-on-grade foundation with up to 4.7 inches of

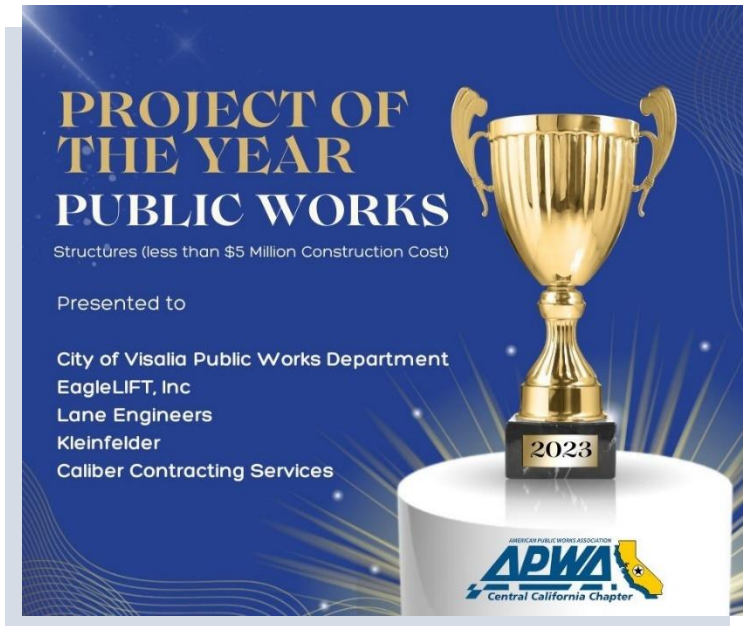
settlement in its most compromised area. Additionally, the soil beneath was composed of semi-expansive clays which further complicated preparing viable repair options.

EagleLIFT was brought in to help provide a solution for the sinking foundation. A combination of SafeBase push piers and structural polyurethane foam were employed to lift and stabilize the foundation. A total of 21 piers were strategically placed on the exterior of the building and driven to competent strata at depths ranging from 35 to 60 feet. Individual piers were initially used to lift the lowest sections of the foundation. Once uniformity was achieved, the hydraulic push piers were raised simultaneously to bring the entire foundation back to

grade. To stabilize and level the interior floors, structural polyurethane was injected on a 4-foot grid pattern just below the slab, using expansive pressure to compact the soil and lift the floor back into place. Throughout the entire lifting process, progress was closely monitored using Zip Levels to ensure precise results. The comprehensive repair solution was carried out in just 7 days and resulted in successfully lifting the



*SafeBase Push Piers installed along exterior*



*APWA Public Works Project of the Year*

threatened foundation back to grade while permanently stabilizing it. The exemplary work done by EagleLIFT and other collaborators on the project earned it the 2023 APWA Central California Chapter Public Works Project of the Year for Structures in the category of construction costs less than \$5 million.

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