2005 AWARDS COMPETITION WINNER

Widest Structure Moved

Atlantic Structure Movers

West Creek, New Jersey

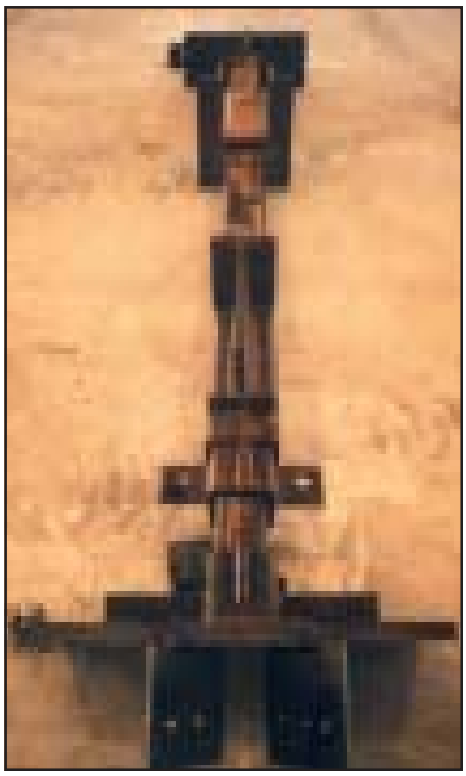
Jay Thompson

Hendrick Hudson High School Athletic Dome
Montrose, New York

The project required raising a 149' diameter dome roof (22,937 square feet) of an athletic auditorium 4'1". To accomplish the feat Jay Thompson and Tina Mueller, owners of Atlantic Structure Movers (ASM) employed the use of 24 custom designed and fabricated jacking/shoring posts produced by ASM. Use of the jacking/shoring equipment dramatically cut time and costs. The lift was completed in 6.5 days (251.5 work hours) with a crew consisting of a foreman and from one to a maximum of three laborers on a given day. The time frame was inclusive of set up, breakdown and clean up. Total jacking time to lift the dome at 24 points required 90 minutes, significantly less than the time allotted.

ASM designed the jacking posts for ease of use, versatility and reuse in mind. Each jacking post accommodates 60 inches of travel and will lift a load from either the top or from the bottom toe using a standard 15-ton hydraulic crib jack. Workers perform all jacking and resetting for subsequent lifts while standing at ground level, a benefit enhancing both safety and time efficiency of the ASM system.

Dome raising in progress.



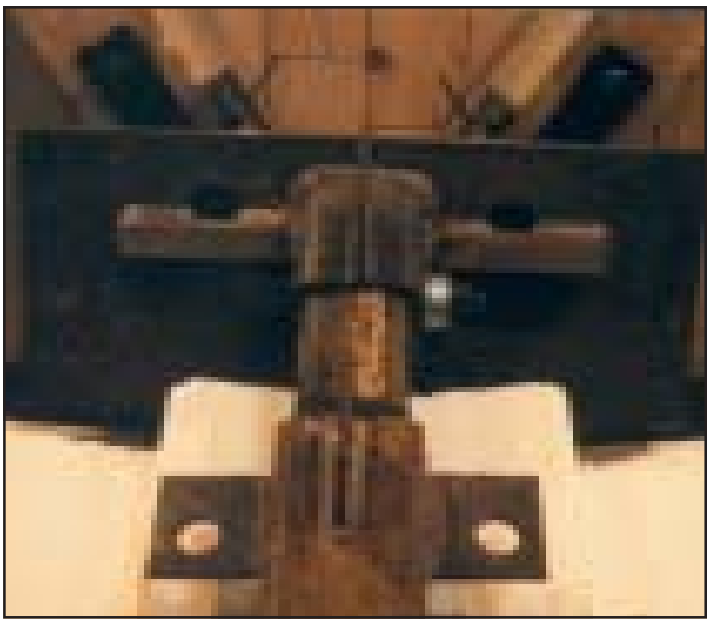
Jacking post on floor awaiting use.

A comparison to conventional crib piers approach revealed the same lift would have required twelve laborers using 1,700 pieces of cribbing, four semi-trailers, a tool truck and a pickup truck. The cost to fabricate 24 custom fitted roof brackets needed to work with conventional crib piers would have equaled or exceeded the cost to fabricate the 24 ASM jacking posts. Furthermore, the custom fitted roof brackets would have been a single use item and then probably relegated to the "bone yard."

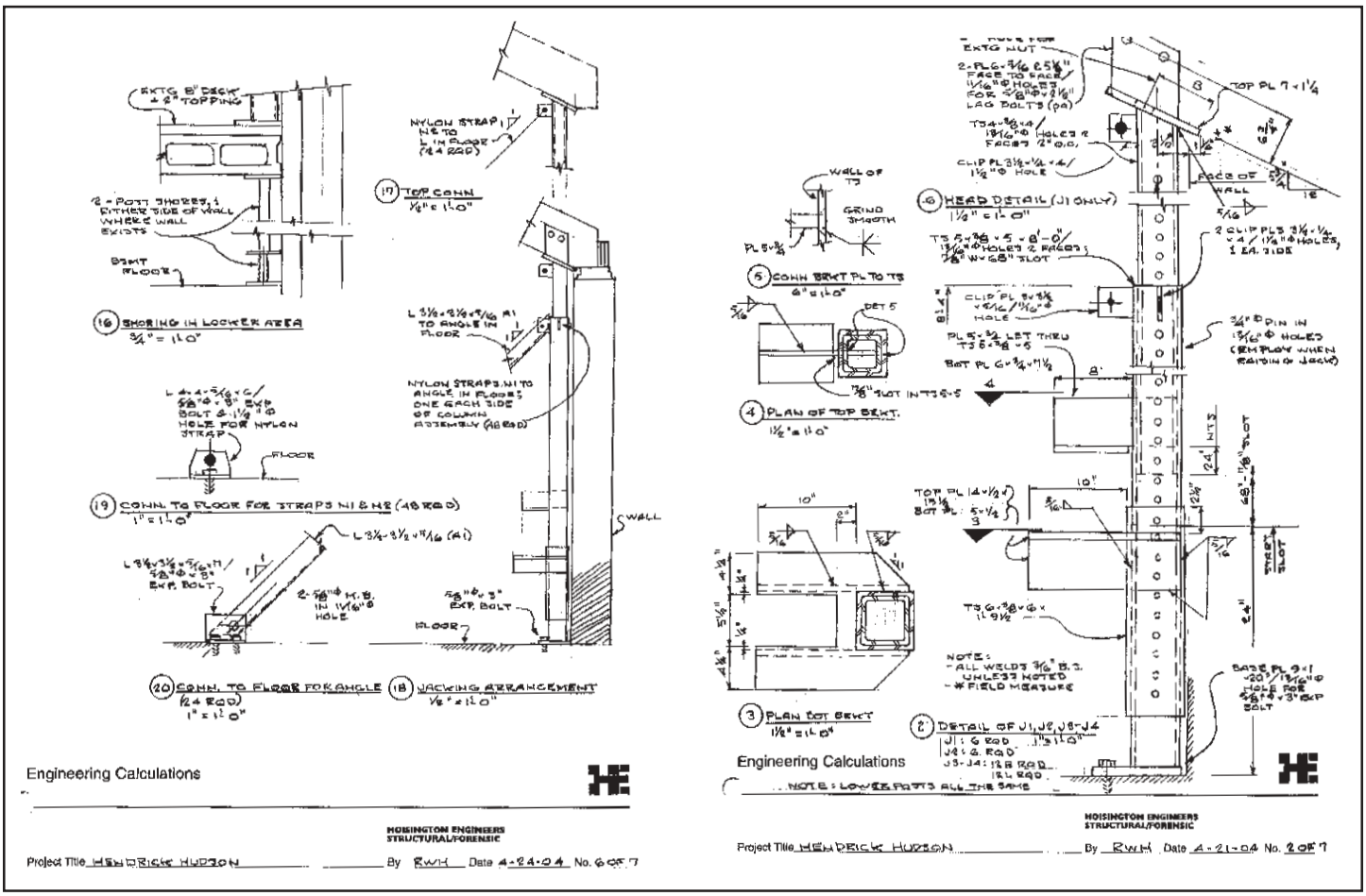
Atlantic, using the ASM System, transported all materials, equipment and personnel (complete with a week's personal gear each) in one 24' box truck and an 11' flatbed tool truck towing a 24' tag along trailer.

SM

ASM System jacking posts lifting dome 4'1".



Jacking post anchored to dome.



Engineering drawings prepared for the move.