

## AFS 1500 Ballast Foundation and 110' Flanged Pole Sioux City, Iowa Water Tower Repair

"I was very impressed with this unit and how well it worked...this application of the tower was a huge success" – *Lindsey Johnson, Vertical Limit*



### OVERVIEW

ARE Telecom was contracted by Vertical Limit to install and lease our AFS 1500 ballasted foundation system with a 100 foot flanged monopole to support carrier communication antennas during the maintenance of a water tower where the antennas were originally installed.

### SOLUTION

ARE Telecom's AFS 1500 ballasted foundation system was perfect for the job. Quick to deploy and robust, the 1500 assembles in less than one day and can support up to 27 antennas. For take-down, the flanged pole is disassembled, the sand ballast will be vacuumed from the foundation and the foundation then disassembled and returned to ARE's warehouse for it's next deployment.

#### Project benchmarks:

- Crew flexibility and equipment availability allowing for installation under challenging time constraints
- Mobilize all equipment, tools and ballast
- Create level base on sloped terrain
- Install 100' flanged monopole to support 9 antennas.

### PROJECT RESOURCES

*5 Man Days Labor, Skid Steer, Tele-handler and Crane*

### CHALLENGES

- Maintaining communication service during maintenance of original support
- Temporary installation not allowing conventional concrete foundation
- Antennas to be installed at 100'
- Rapid installation required



Off-loading flatbed truck



Preparing compacted gravel base



Assembly of the base trays



Assembly of the support arms



Foundation with ballast



Foundation with 1<sup>st</sup> pole section



AFS 1500 foundation & 100' pole installed supporting 2-3 carriers