



# PROJECT HIGHLIGHT

## OUTFALL SEWER REPLACEMENT CITY OF SIOUX FALLS

### KEY PLAYERS

Owner: City of Sioux Falls  
Public Works

Prime: H & W Contracting  
LLC

Engineers: HDR Engineering  
Inc.

Foam: Aerix Industries

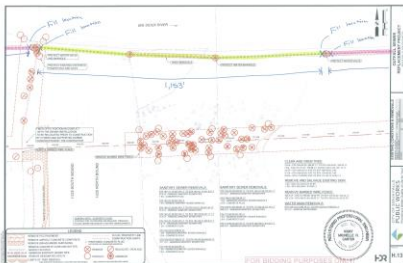
Ready Mix: Concrete  
Materials

### JOB FACTS

Density: 25 pcf

Strength: 50 psi min @ 28 days

Job Finished: 2016



### ABANDONED PIPE FILL VARIOUS SIZES

Cellular Concrete Inc. was subcontracted to fill 11237' of 8"-66" Sanitary sewer with a 25 pcf, 50 psi minimum cellular concrete. The total project came out to about 8000 yards. H & W was the prime on the project and the owner was the City of Sioux Falls public works. These pipes were along the Big Sioux River in Sioux Falls, SD, access was very limited.

### CELLULAR CONCRETE ADVANTAGES

With any large abandoned pipe project number of access points can be a problem. Flowable fill is typically specified for abandonment fill, however the pumping distances for flowable fill are restricted to around 200' depending on the size of the pipe. We had two pumps available and were able to fill the 66' pipe in runs of 750' eliminating around 40+ excavations from the project. Cellular concrete is pumped very easily and at low pressures. You are only restricted on the volume you can place in around 4 hours. Another great advantage to using cellular concrete is a reduction of site traffic. With this mix we can make around 36 yards per ready mix load. We pumped most of this project via bike path so reducing the amount of truck traffic was a huge advantage over using flowable fill.

