

Installer: Ram Jack of South Carolina, Inc. · Ridgeway, SC · 866-735-3085

SITUATION

A pump station responsible to handle all of the irrigation for the entire course was housed in a single monolithic slab structure. Though it was a very rudimentary structure, inside, a lift/pump station valued in excess of \$65,000 was housed and bolted to the slab. The structure in its entirety was migrating down grade towards a lake. The expansive nature of the clay soils were directly responsible for the structures downward movement in excess of 2". Some of the interior mechanisms passed directly through the monolithic slab. Which made the remedial repair the only feasible option, as without irrigation, the greens would have suffered greatly.

SOLUTION

After careful consideration of the structures build and the potential issues that could arise with working in such close proximity to this equipment, Ram Jack proposed (10) 2 7/8" 10"-12" helical pilings with Low Profile brackets around the entire exterior perimeter of the structure and (6) 2 3/8" 8"-10" helical pilings with Folding slab brackets through the interior slab. Upon installation, the Ram Jack installation staff experienced depths of embedment that ranged from 10' to 45'. The largest hurdle that we had to overcome was the wet well/basin that extended 8' below grade, formed in the monolithic slab on the interior. Ram Jack feared that the basin could be torn away during the lift of the foundation. In order to forgo the potential of this issue, Ram Jack worked closely with Paul Myers of Atmospheric Industries. Paul actually took a huge risk by getting suited in his dive gear and stayed submerged in the wet well the entire time that lift was being made. By monitoring the wet well so closely-Ram Jack was able to push the normal bounds and show 100% recovery in the lift station.

CONCLUSION

The entire Ram Jack team, including Paul with Atmospheric Industries, worked in unison to see that the pump station was stable and the greens would in fact remain green. Though some hurdles were met along the way, this project was carried out in a timely and professional manner, leaving no doubts about the leader in foundation repair; Ram Jack!



STRENGTH AND STABILITY

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