Project:
Additions and Renovations to R.B. Stall High School
3625 Ashley Phosphate Road
North Charleston, SC 29418

Owner:
Charleston County School District
75 Calhoun St
North Charleston, SC 29401

General Contractor:
Monteith Construction Corp
1 Cool Blow Street, Suite 202
Charleston, SC 29403

Helical Pile Contractor:
Engineered Solutions of Georgia
4500 Highlands Parkway
Smyrna, GA 30082

Helical Pile Manufacturer/Supplier:
IDEAL Group
80 Bluff Dr
East Rochester, NY 14445

Summary:
Provide Pile Design, Load Testing, Materials and Labor to install 38 Helical Piers for school addition along the existing building and new construction interface.

Design Requirement Summary For Piers
Significant Requirements Per Drawing S-303.
RFI 017, S-SK1 and S-SK2 dated 7/18/2025
Minimum Depth = 35’ (156”)
Shaft Diameter = 4.5” O.D. Pipe
Helix 1 = 12”
Helix 2 = 14”
Helix 3 = 16”
Helix 4 = 16”
New Construction Cap: 8”x8”x3/4”
Allowable Compression = 32 kip
Allowable lateral load = 5.0 kip

Maximum center to center spacing between piers = 5’-4”

Install Summary For Piles

- Pile: 4 1/2” OD x 0.29” Wall triple Helix 12-14-16 and flighted extension single helix by IDEAL
- 2 Load Test Requieed
- Pile Finish: Galvanized Steel
- Pier Bracket: New Construction 8”x8”x3/4”.
- Required minimum installation torque: 10,700 ft-lbs Ultimate.
- Torque not to exceed: 26,500 ft-lbs.
- Minimum helical pier tip depth below ground surface is 35’-0”.
- Piles may need to be installed beyond the specified minimum depth to achieve the required torque.
- Notify engineering if piers reach torque not to exceed limit or if they flat spin before reaching minimum depth.
- The property owner hired a special inspector to be present during pile installation. Inspector to follow special inspection schedule attached to this shop submittal and provide pile as-built certification letter when pile installation is complete.

Please feel free to contact me should you have any questions or need any additional information.

Thank you.

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