

December 5, 2025

Monteith Construction Corps  
RB Stall High School  
Charleston, SC

**Re: RB Stall High School -Installed Helical Piers**

Thank you for the opportunity to provide structural engineering services for you. I have evaluated the results of the load tests and have determined that the two test piles satisfactorily resisted 64k (200% of the design load) without “rapid continuing, progressive movement” or with total axial movement exceeding “15% of the pile diameter or width” defined as failure in the Standard Test Methods for Deep Foundations Under Static Axial Compressive Load (ASTM D1143-07).

Test pile #1 provided a torque of 18,500 ft-lb at 23'-6” and test pile #2 provided a torque of 18,500 at 21'-9”

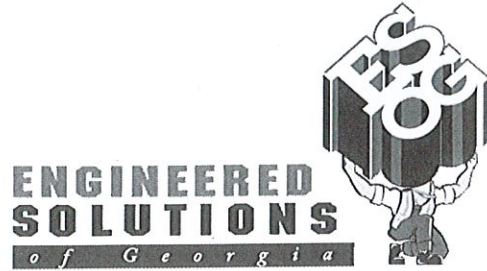
Based on the results provided by ESOG representative, the recorded torque capacities and compression load test results suggest that the installed piers are acceptable at their installed depths. The piers meet or exceed the minimum required installation torque of 10,700 ft-lbs.

I hope that this letter has addressed your needs. Please call our office if you have further questions. This confidential report is the property of the Engineered Solutions of Georgia and the Client listed.

Sincerely,

Ranj Hassan, PE





# Commercial Piering Log

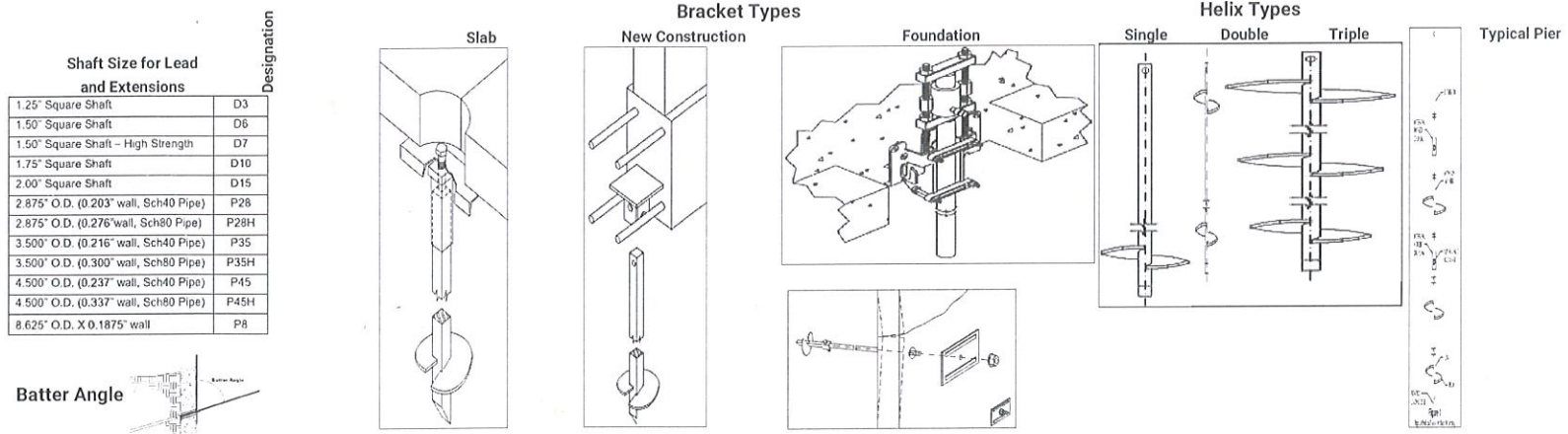
4500 Highlands Parkways • Smyrna, GA 30082 • 678-290-1325

Customer Name: Monteith Construction Corp - Danielle Conway  
 Property Address: 3625 Ashley Phosphate Rd Charleston  
 Salesperson: Chuck Irby

Drive Head : Eskridge - 77BC Foreman: #REF Ben Bankston Date Started: 11/5 Date Completed: 11/12

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary				
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psf)	
P1	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)						22 (ft)	18.1K (psf)	0 (in)	10,700
	Batter (deg)	Helix Type	3.2 drive (psi)	10 drive (psi)	18.1K drive (psi)						notes:			
	Vertical	12" Single			22 total depth (ft)									

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary				
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psf)	
P2	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)						21 (ft)	24K (psf)	0 (in)	10,700
	Batter (deg)	Helix Type	3 drive (psi)	10 drive (psi)	24K drive (psi)						notes:			
	Vertical	12" Single			21 total depth (ft)									



revised 11/14/11'

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary			
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psi)
P3	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)	length (ft)	length (ft)	length (ft)	length (ft)	21 (ft)	18.6K (psi)	Ø (in)	10,700
	Batter (deg)	Helix Type	3 drive (psi)	10 drive (psi)	18.6 drive (psi)	drive (psi)	drive (psi)	drive (psi)	drive (psi)	notes:			
	Vertical	12" Single	total depth (ft)	total depth (ft)	21 total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)				

16-PL

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary			
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psi)
P4	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)	length (ft)	length (ft)	length (ft)	length (ft)	22 (ft)	17.8K (psi)	Ø (in)	10,700
	Batter (deg)	Helix Type	2.5 drive (psi)	10 drive (psi)	17.8K drive (psi)	drive (psi)	drive (psi)	drive (psi)	drive (psi)	notes:			
	Vertical	12" Single	total depth (ft)	total depth (ft)	22 total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)				

16-PL

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary			
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psi)
P5	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)	length (ft)	length (ft)	length (ft)	length (ft)	22 (ft)	17.8K (psi)	Ø (in)	10,700
	Batter (deg)	Helix Type	3 drive (psi)	10 drive (psi)	17.8K drive (psi)	drive (psi)	drive (psi)	drive (psi)	drive (psi)	notes:			
	Vertical	12" Single	total depth (ft)	total depth (ft)	22 total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)				

16-PL

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary			
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psi)
P6	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)	length (ft)	length (ft)	length (ft)	length (ft)	23 (ft)	17.1K (psi)	Ø (in)	10,700
	Batter (deg)	Helix Type	3 drive (psi)	10 drive (psi)	17.1K drive (psi)	drive (psi)	drive (psi)	drive (psi)	drive (psi)	notes:			
	Vertical	12" Single	total depth (ft)	total depth (ft)	23 total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)				

16-PL

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary			
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psi)
P7	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)	length (ft)	length (ft)	length (ft)	length (ft)	23 (ft)	18.7K (psi)	Ø (in)	10,700
	Batter (deg)	Helix Type	3 drive (psi)	10 drive (psi)	18.7K drive (psi)	drive (psi)	drive (psi)	drive (psi)	drive (psi)	notes:			
	Vertical	12" Single	total depth (ft)	total depth (ft)	23 total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)				

16-PL

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary				
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth (ft)	Final Drive Head Pressure (psi)	Amount of Lift (in)	Pressure Goal (psi)	
P8	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)						23 (ft)	18.9 (psi)	Ø (in)	10,700
	Batter (deg)	Helix Type	3 drive (psi)	10 drive (psi)	18.9 drive (psi)									
	Vertical	12" Single			23 total depth (ft)									
notes:														

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary				
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth (ft)	Final Drive Head Pressure (psi)	Amount of Lift (in)	Pressure Goal (psi)	
P9	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)						23 (ft)	18.2 (psi)	Ø (in)	10,700
	Batter (deg)	Helix Type	3 drive (psi)	10 drive (psi)	18.2 drive (psi)									
	Vertical	12" Single			23 total depth (ft)									
notes:														

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary				
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth (ft)	Final Drive Head Pressure (psi)	Amount of Lift (in)	Pressure Goal (psi)	
P10	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)						23 (ft)	18.7 (psi)	Ø (in)	10,700
	Batter (deg)	Helix Type	3 drive (psi)	10 drive (psi)	18.7 drive (psi)									
	Vertical	12" Single			23 total depth (ft)									
notes:														

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary				
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth (ft)	Final Drive Head Pressure (psi)	Amount of Lift (in)	Pressure Goal (psi)	
P11	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)						23 (ft)	18.9 (psi)	Ø (in)	10,700
	Batter (deg)	Helix Type	4 drive (psi)	10 drive (psi)	18.9 drive (psi)									
	Vertical	12" Single			23 total depth (ft)									
notes:														

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary				
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth (ft)	Final Drive Head Pressure (psi)	Amount of Lift (in)	Pressure Goal (psi)	
P12	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)						23 (ft)	17.2 (psi)	Ø (in)	10,700
	Batter (deg)	Helix Type	3 drive (psi)	10 drive (psi)	17.2 drive (psi)									
	Vertical	12" Single			23 total depth (ft)									
notes:														

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary			
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psi)
P13	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)	length (ft)	length (ft)	length (ft)	length (ft)	20.2 (ft)	18.1 (psi)	0 (in)	10,700
	Batter (deg)	Helix Type	3 drive (psi)	11 drive (psi)	16.1 drive (psi)	drive (psi)	drive (psi)	drive (psi)	drive (psi)	notes: K-1			
	Vertical	12" Single	total depth (ft)	total depth (ft)	22 total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)				

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary			
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psi)
P14	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)	length (ft)	length (ft)	length (ft)	length (ft)	23 (ft)	18.4 (psi)	0 (in)	10,700
	Batter (deg)	Helix Type	4 drive (psi)	10 drive (psi)	18.4 drive (psi)	drive (psi)	drive (psi)	drive (psi)	drive (psi)	notes: K-1			
	Vertical	12" Single	total depth (ft)	total depth (ft)	23 total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)				

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary			
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psi)
P15	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)	length (ft)	length (ft)	length (ft)	length (ft)	23 (ft)	16.3 (psi)	0 (in)	10,700
	Batter (deg)	Helix Type	3 drive (psi)	12 drive (psi)	16.3 drive (psi)	drive (psi)	drive (psi)	drive (psi)	drive (psi)	notes: K-1			
	Vertical	12" Single	total depth (ft)	total depth (ft)	23 total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)				

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary			
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psi)
P16	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)	length (ft)	length (ft)	length (ft)	length (ft)	23 (ft)	19 (psi)	0 (in)	10,700
	Batter (deg)	Helix Type	4 drive (psi)	11 drive (psi)	19 drive (psi)	drive (psi)	drive (psi)	drive (psi)	drive (psi)	notes: K-1			
	Vertical	12" Single	total depth (ft)	total depth (ft)	23 total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)				

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary			
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psi)
P17	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)	length (ft)	length (ft)	length (ft)	length (ft)	22 (ft)	17.3 (psi)	0 (in)	10,700
	Batter (deg)	Helix Type	3 drive (psi)	11 drive (psi)	17.3 drive (psi)	drive (psi)	drive (psi)	drive (psi)	drive (psi)	notes: K-1			
	Vertical	12" Single	total depth (ft)	total depth (ft)	22 total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)				

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary										
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psf)							
P18	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)															
	Batter (deg)	Helix Type	3 drive (psi)	10 drive (psi)	16.1 drive (psi)							22 (ft)	16.1 (psi)	0 (in)	10,700					
	Vertical	12" Single			22 total depth (ft)							notes: K-1								

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary										
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psf)							
P19	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)															
	Batter (deg)	Helix Type	4 drive (psi)	11 drive (psi)	18.3 drive (psi)							23 (ft)	18.3 (psi)	0 (in)	10,700					
	Vertical	12" Single			23 total depth (ft)							notes: K-1								

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary										
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psf)							
P20	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)															
	Batter (deg)	Helix Type	4 drive (psi)	12 drive (psi)	17.5 drive (psi)							23 (ft)	17.5 (psi)	0 (in)	10,700					
	Vertical	12" Single			23 total depth (ft)							notes: K-1								

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary										
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psf)							
P21	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)															
	Batter (deg)	Helix Type	3 drive (psi)	10 drive (psi)	17.1 drive (psi)							23 (ft)	17.1 (psi)	0 (in)	10,700					
	Vertical	12" Single			23 total depth (ft)							notes: K-1								

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary										
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psf)							
P22	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)															
	Batter (deg)	Helix Type	3 drive (psi)	11 drive (psi)	17.9 drive (psi)							23 (ft)	17.9 (psi)	0 (in)	10,700					
	Vertical	12" Single			23 total depth (ft)							notes: K-1								

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary			
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psi)
P23	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)	length (ft)	length (ft)	length (ft)	length (ft)	23 (ft)	17 (psi)	0 (in)	10,700
	Batter (deg)	Helix Type	3 drive (psi)	10 drive (psi)	17 drive (psi)	drive (psi)	drive (psi)	drive (psi)	drive (psi)	notes:			
	Vertical	12" Single	total depth (ft)	total depth (ft)	23 total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)				

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary			
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psi)
P24	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)	length (ft)	length (ft)	length (ft)	length (ft)	22 (ft)	16.2 (psi)	0 (in)	10,700
	Batter (deg)	Helix Type	4 drive (psi)	11 drive (psi)	16.2 drive (psi)	drive (psi)	drive (psi)	drive (psi)	drive (psi)	notes:			
	Vertical	12" Single	total depth (ft)	total depth (ft)	22 total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)				

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary			
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psi)
P25	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)	length (ft)	length (ft)	length (ft)	length (ft)	23 (ft)	18.1 (psi)	0 (in)	10,700
	Batter (deg)	Helix Type	4 drive (psi)	11 drive (psi)	18.1 drive (psi)	drive (psi)	drive (psi)	drive (psi)	drive (psi)	notes:			
	Vertical	12" Single	total depth (ft)	total depth (ft)	23 total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)				

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary			
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psi)
P26	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)	length (ft)	length (ft)	length (ft)	length (ft)	22 (ft)	14.5 (psi)	0 (in)	10,700
	Batter (deg)	Helix Type	3 drive (psi)	10 drive (psi)	14.5 drive (psi)	drive (psi)	drive (psi)	drive (psi)	drive (psi)	notes:			
	Vertical	12" Single	total depth (ft)	total depth (ft)	22 total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)				

Pier #	Shaft Size Designation	Bracket Type	Lead	Extensions						Summary			
				Ext 1	Ext 2	Ext 3	Ext 4	Ext 5	Ext 6	Total Pier Depth	Final Drive Head Pressure	Amount of Lift	Pressure Goal (psi)
P27	D6	Foundation	10 length (ft)	10 length (ft)	5 length (ft)	length (ft)	length (ft)	length (ft)	length (ft)	22 (ft)	14.8 (psi)	0 (in)	10,700
	Batter (deg)	Helix Type	3 drive (psi)	10 drive (psi)	14.8 drive (psi)	drive (psi)	drive (psi)	drive (psi)	drive (psi)	notes:			
	Vertical	12" Single	total depth (ft)	total depth (ft)	22 total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)	total depth (ft)				



Customer

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Structural			Basement			Crawl Space		
Pier	Tiebacks		Base Drain	Crawl Space	Crawl Space			
Carbon Fiber	Ply		Compless	Eriquip	Columns			
Soldier	Grout		Pump	Columns	Vents			
Stabilize / Lift	Post		Discharge					

What is the problem that you called us about?

What is it about the problem that concerns you?

How long have you lived in the home?

Have you done anything to fix it?

When did you first notice the problem?

What is important to you about getting this fixed?

Has it gotten worse over time?

L = Length (Feet)  
D = Drive Pressure (PSI)

Pier #	Lead	Ext 1	Ext 2	Ext 3	Total Depth	Final <del>Length</del> Pressure
28	L 10	10	5		23	18.3K -'
29	L 10	10	5		23	16.4K -'
30	L 10	10	5		23	15.5K -'
31	L 10	10	5		23	16.3K -'
32	L 10	10	5		23	18.1K -'
33	L 10	10	5		23	17.1K -'
34	L 10	10	5		23	15.9K -'
35	L 10	10	5		23	16.8K -'
36	L 10	10	5		22	15.9K -'
37	L 10	10	5		23	18.7K -'
38	L 10	10	5		23	18.1K -'