



Parrish & Heimbecker Flour Mill

Piling

Hamilton, ON

+ Project Snapshot

- \$60-million project
- The first flour mill built in Ontario in 75 years
- 108,000 linear feet of 9-5/8" piles
- 1:6, 1:12, and 1:18 batters
- Aggressive 4-month schedule

+ Project Background

Parrish and Heimbecker's Milling Group announced in late 2015 that they would be building a new flour mill in Hamilton, Ontario. The mill (a \$60+ million dollar investment) is to be built adjacent to Parrish and Heimbecker's existing terminal elevator. It is the first new flour mill built in Ontario in 75 years.

+ Project Description

Birmingham Foundation Solutions was retained to complete the piling for the facility and started work in January 2016. Caymar Mill Systems managed the project and had an aggressive schedule to complete all piling (108,000 linear feet of 9-5/8" pipe piles) in 4 months. Making the schedule more difficult was the fact that the radial distribution of piles also called for 1:6, 1:12 and 1:18 batters often beside each other. Birmingham confronted the schedule by utilizing two major time saving techniques; longer piles and the use of three Vertical Travel Lead (VTL) systems to seamlessly adjust to the multitudes of battered piles.

+ Innovative Solutions

Typically, most piles are ordered in lengths less than 60 feet but for this project, Birmingham procured the piles in 100 foot (30.5m) lengths brought in by special trombone trailer trucks. Splicing piles greatly slows the piling operation as the piling rig must assist the operation and cannot continuously drive piles. It is estimated that by utilizing the 100-FT



Owner
Parrish & Heimbecker
General Contractor
Caymar Mill Systems

Birmingham Personnel
Andrew Morrissey
Period of Work
January 2016



length piles, Birmingham reduced the total pile installation by a month. See the photo above of Birmingham VTL System lofting a 100 foot pile.



Birmingham's piling blitz enabled the foundation portion of the project to be completed in an extremely quick manner. Project Manager Andrew Morrissey believes that with the orientation of the piles and the aggressive schedule, VTL was the only real option. The experience of Birmingham's team and the speed, flexibility and accuracy of the VTL made this project a success.

To complement the longer piles, Birmingham chose cranes and VTL combinations that could accommodate the longer lengths. 100/110 and 165 ton cranes were used with L-18 and L-23 VTL systems. VTL systems allow for quick and accurate pile alignment on batters as high as 1:3.

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