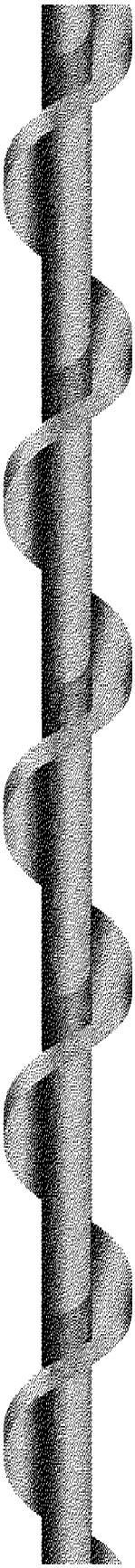

OHSU NORTH CAMPUS MICROPILES

Scope of Work

TBH is a subcontractor to Hoffman-Anderson Joint Venture. We have been contracted to design and construct a total of 78 micropiles to support the future utility bridge. Each micropile is designed to carry a design load of 134,000 lbs in both compression and tension. TBH is working closely with several subcontractors, particularly John L. Jersey, who is constructing work benches for the drill rig in very limited access conditions.

Unique Aspects of This Project

- This project is located at the top of a very steep slope (approximately 1.5H:1V). Materials must either be hoisted into the site via tower crane, or brought through a corridor too narrow for full size material pallets. TBH is utilizing over 400 pieces of casing each weighing approximately 300 lbs, 300,000lbs of cement, as well as 2-1/2" diameter reinforcing steel up to 50' in length. TBH has had to handle much of this material by hand in order to complete this project.
- The access roads cut into the slope to accommodate our drill rig have been limited to 10'-12' wide. This leaves no room for support equipment and has required very careful scheduling with the excavation contractor to allow the work to continue in accordance with the tight project schedule.
- The micropiles are being installed both vertically and at a 45-degree batter. The battered piles have had to be redesigned to miss existing tiebacks, utilities, building foundations, and micropiles previously installed. Extreme care must be taken to avoid contact with utilities that could jeopardize the stability of the slope if fractured.

Schedule

The project has a very critical schedule, with little margin for delay. All of the micropiles must be installed and tested in a 35 working day duration. Due to limited access of the site, there have been times where TBH has been unable to work while Jersey is creating access for the next set of pin piles, and vice versa. TBH has worked extensive overtime to accelerate production so that the original schedule can be maintained.

TBH Strengths

This project has been a success due to TBH's ability to work closely with the other subcontractors and our flexibility to modify our schedule to construct the project in the most efficient manner possible. Moreover, our personnel have shown great dedication to the successful completion of the project, working in very difficult conditions while maintaining a high level of quality.