

Dynamic Passive Pressure on Abutments and Pile Caps

PI's Profs. Rollins and Gerber

Quarterly Report Feb 2007 -Apr 2007

During this quarter, a draft final report on Task 3 (passive force tests) was written and a draft final report on the Task 4 (Pile Cap Connection) testing was completed. Plans were also finalized for the reaction system for Tasks 5 and 6. The reaction system will consist of the two existing 4 ft diameter drilled shafts combined with a sheet pile wall 40 ft deep and 28 feet wide. The reinforcing for the pile cap for tests in Tasks 5 and 6 was also designed. The pile cap will be 5.5 feet deep, 11 feet wide and 15 feet long. Construction of the pile cap and reaction system was underway at the end of the quarter.

Plans for the Next Quarter

The sheet pile wall reaction system will be completed and the pile cap construction will be finalized. The pile cap tests associated with Tasks 5 and 6 will be performed in May and June at the Salt Lake City Airport.

Budget Considerations

At the end of the quarter, \$62,384 had been expended on work associated with Tasks 1, 2, 3 and 4. The total budget associated with all the project tasks is \$265,395. Therefore, approximately 23% of the budget has been spent for these tasks. We estimate that approximately 30% of the work on the project has now been completed. Therefore, the project appears to be on track from a budget standpoint.