

Seton Channel Minnetonka, MN

Progressive Consulting Engineers, Inc. (PCE) provided civil engineering design services to Hennepin County Public Works for the construction of a sheet piling seawall along Seton Channel in Lake Minnetonka at Mound, Minnesota. We provided complete plans, specifications, and a cost estimate for this project.



This sheet piling project was proposed by the County due to the deteriorating condition of existing sheet piling and associated tie-backs along the channel. Approximately 315 feet of the existing seawall, south from the bridge at CSAH 15, was in very poor condition with rusted or broken piles and tie-back cables that had been broken, thus reducing its bearing capacity.

PCE designed a cantilevered sheet piling seawall that was placed next to the old sheet pile, which was trimmed below the surface and left in place. Soil borings and a soils reports were completed by Braun Intertec. These reports were utilized in the sheet pile design, material specification, and determination of embedment depth. The final plan set included plans and profiles, cross sections, typical sections, details, and estimated quantities.

The project required close coordination with County staff and effected residents, as homes along the channel were in close proximity to the construction. Care was taken in design to ensure that the proposed construction of the seawall would have minimal impact on existing structures, trees, and lawns.

Construction began in the early months of 2005 and the project was completed in May 2005. Timing of construction was critical so that docks and boat lifts could be restored to their original locations before the boating season.



Client: Hennepin County Public Works
Client Contact: Bernard J. Jahn, P.E., Senior Professional Engineer
Construction Year: 2005
Project Cost: \$251,502



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