



## SINKING PATIOS

Two previous repairs had been made to the two patios of this condo. Those repairs proved to be unsuccessful, as the concrete continued to break and the posts holding the roofs continued to sink into the poor soil. The homeowners association wanted to be sure that this would be the final repair.

Project: #10701

Location: Louisville, Kentucky

**Both of the patios were removed, pierced and re-poured in one day!**

Demolition began early, jack hammering the existing concrete patios. Temporary beams and posts were brought in to take the load off the existing posts for removal. The poor soils were traded for gravel and were compacted with a vibratory plate compactor. 10" thickened edges with 140' of  $\frac{1}{2}$ " steel reinforcement was tied and pinned to the condo to prevent future settlement. Four, 2  $\frac{7}{8}$ " round shaft, 8/10" helical piers were installed to a depth of approx. 14', providing a bearing

capacity in excess of 30kips, which supported the 3kip roof load. A new construction cap was installed to the top of the piers and the steel reinforcement was tied to the pier cap. 5CY of 4000PSI concrete was poured with a brushed finish. We returned the next day to wreck forms, finish grade and seed/straw. The customer was thrilled with our efficient, thorough operation. They were also very glad that this is the last time they will have to address these plagued patios.

