

Flood Studies

Haeger Engineering is a long-standing partner and consultant to Palatine Township. We have completed an inclusive series of projects for them that address the unique drainage conditions and flood mitigation issues of their community. We work closely with the Township to determine solutions that satisfy both their needs and budget.

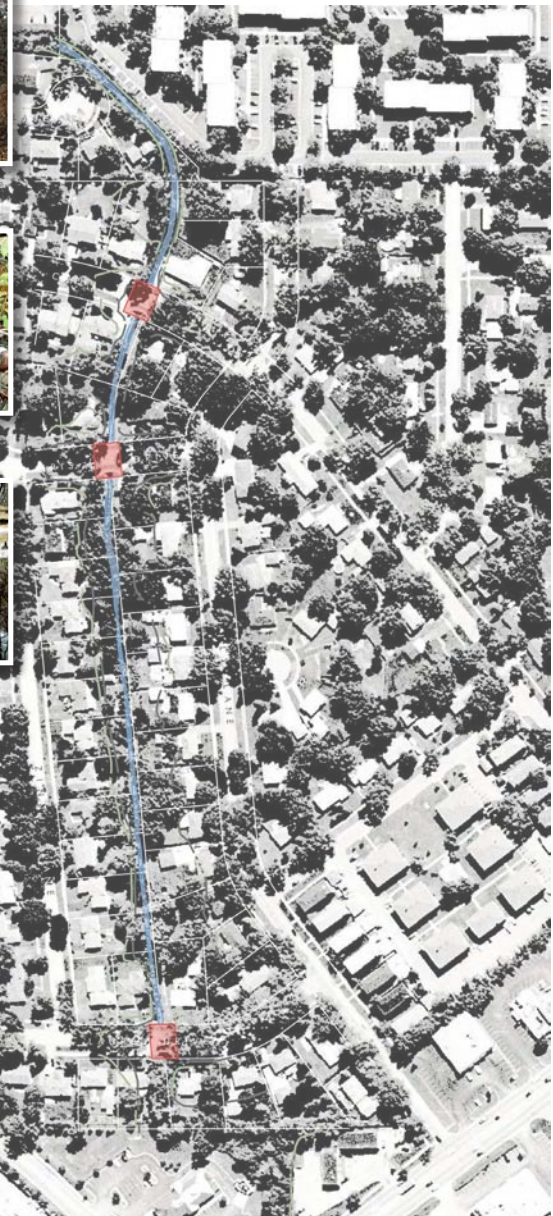


Pinehurst Subdivision

Buffalo Creek and its tributaries flow through Unincorporated Palatine Township's various municipalities and subdivisions. Pinehurst Subdivision is one of the communities that experiences severe yearly flooding from a tributary. The Pinehurst Subdivision flood remediation project was split into 4 phases and coordinated between Palatine Township Road District (PTRD) and the Village of Palatine.

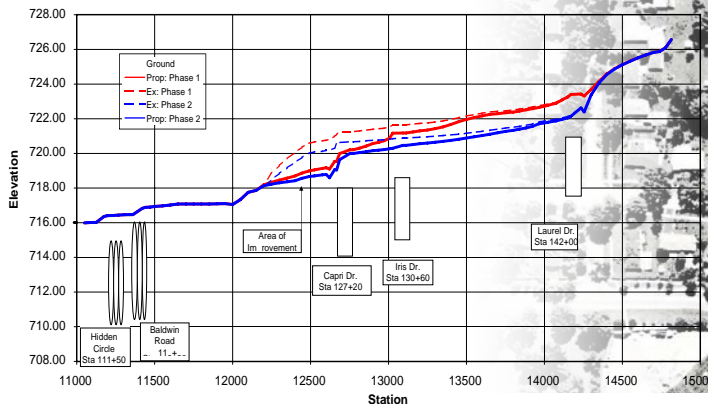
The first phase included a hydrologic and hydraulic study of the Buffalo Creek Tributary from Rand Road through Pinehurst Subdivision to Baldwin Road. After the report was finalized and recommendations were discussed with the Township, the second and third phases were implemented. They included improving three natural bottom culverts and modifying the existing cross section of the creek, respectively. We prepared final construction plans, details, specifications and permitting for the improvements with the Illinois Department of Natural Resources (IDNR), Environmental Protection Agency (IEPA), the United States Army Corps of Engineers (ACOE), and the North Cook Soil and Water Conservation District (NCSWCD), as well as Palatine Township and Village of Palatine. The fourth phase was a detailed hydraulic modeling of a critical section of the tributary from Capri Drive to High Grove Court. This study recommended further channel modifications that the Village of Palatine is considering.

Client Reference
Palatine Township Road District



Phase 1 & 2 Improved Water Surface Profile
100-yr

Proposed 14 ft. Bottom w/ 2:1 Slope
Sta 121+50 to Sta 126+87



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