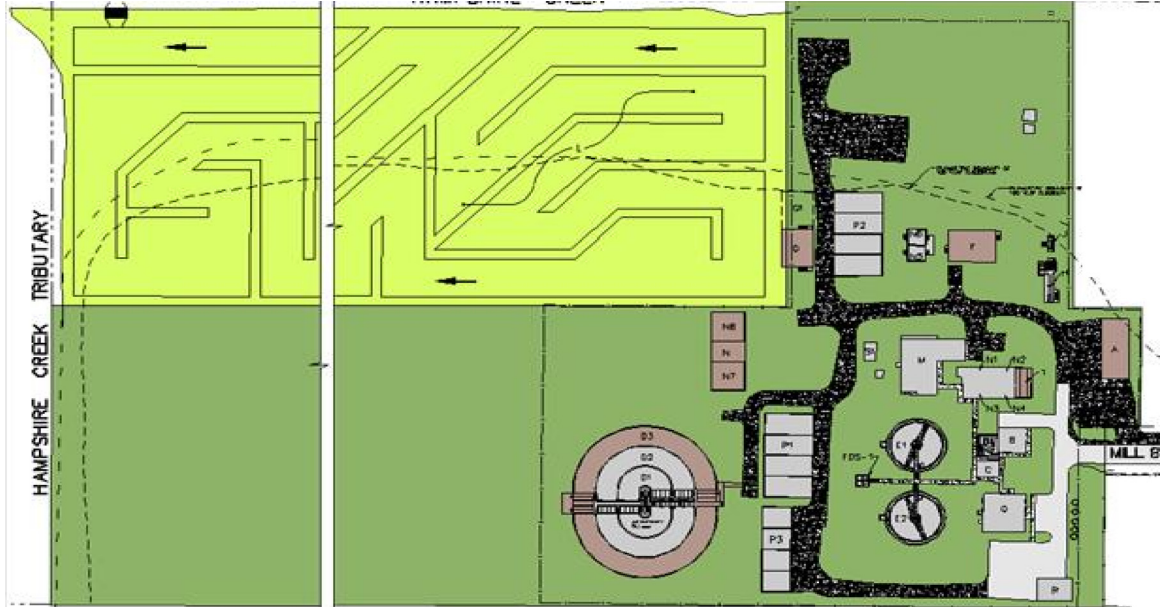




1.5 MGD Wastewater Treatment Facility Expansion  
Hampshire, Illinois



Site Layout

With the completion of the 0.75 MGD WWTF improvements in 2004, the Village came into compliance with their NPDES permit and were able to adequately accommodate existing customers and some additional growth. To capitalize on additional economic potential from continued residential and commercial growth, the Village commissioned EEI to prepare an amendment to the Facilities Plan to quantify future WWTF flows and loadings and develop a plan for wastewater conveyance and treatment which resulted in a recommendation to increase capacity to 1.5 MGD.

Because the 0.75 MGD WWTF was designed and constructed with near future expandability and imminent stricter effluent standards in mind, the strategy for expansion was clear even in light of new regulations that required phosphorous removal and enhanced tertiary treatment. The 1.5 MGD expansion is scheduled to begin in April 2006 and should be complete by October 2007. A project highlight includes the construction of an 8 acre wetland for enhanced tertiary treatment

prior to discharge into Hampshire Creek which is on the 303(d) list.

EEI provided comprehensive engineering services for this project including planning, preliminary and final design, and permitting and are contracted to provide construction engineering services.

**Construction Cost:**  
\$9,500,000 (Est.)

**Project Features:**

- Improvements to raw sewage & Harmony Rd. pump stations
- Addition of oxidation ditch Channel No. 3
- Phosphorous removal by chemical precipitation
- Tertiary filter building
- Addition of UV disinfection channel No. 2
- 8 acres polishing wetland
- Improvements to the biosolids management facility
- Addition of aerobic digesters No. 5 and 6