



GILMORE & ASSOCIATES, INC.

FULL SERVICE CIVIL ENGINEERING & CONSULTING



## WEST END SEWER PROJECT Northampton Township, PA

Gilmore & Associates, Inc. is working with the Northampton Bucks County Municipal Authority to extend sewer lines to several existing neighborhoods with failing on-lot septic systems. Phase I of the project includes approximately 4,400 linear feet of sewers. Phase 2 of the project includes some 40,000 linear feet of sewers, two sewage pump stations, and 14,000 linear feet of force main.

Services provided by Gilmore & Associates, Inc. include survey, soil borings, engineering design, permitting, and construction observation/administration. Since this project involved existing neighborhoods, extensive coordination and meetings with public officials and the effected property owners was involved. Numerous legal descriptions and plans for permanent and temporary construction easements were developed by Gilmore & Associates, Inc.'s survey department.

Phase I of the project is built and operational, and construction of Phase II is underway.



### Services Provided by G&A

- Survey
- Easement Development
- Design
- Permitting
- Construction Observation & Administration



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## KING ROAD WASTEWATER TREATMENT PLANT Limerick Township, PA

The King Road Wastewater Treatment Plant, located in Limerick Township, Montgomery County, PA became fully operational in late January 2007. Engineering, design, and construction of the treatment plant expansion and upgrade, which can process 1.7 million gallons of sewage per day, was managed by Gilmore & Associates, Inc. for the Limerick Township Municipal Authority.

Work for this \$9.8 million (total construction cost) project was performed by four departments in two Gilmore & Associates, Inc. offices. In addition to Water / Wastewater, the Geotechnical Department provided soil borings, the Survey Department provided as-built information for design and stake-out for all construction activity, and the Construction Observation Department monitored construction activities, which started in October 2005.

Some notable aspects of the project include using the same technology at King Road as was used at the Possum Hollow Wastewater Treatment Plant (also designed by Gilmore & Associates, Inc. for LTMA), which allows for better ease of use by the treatment plant operators. Additionally, the principal treatment tank is all pre-cast post tensioned concrete that was delivered and then assembled on site. The treatment plant was designed and built to be expandable to 2.5 mgd.

The project also included the demolition, relocation and change of use of piping and structures associated with the old treatment facility. Physical removal of two abandoned, above ground circular steel tanks, including disconnection of all piping and electrical lines, will take place in the future, in accordance with specifications under development by G&A.

### Services Provided by G&A

- Planning
- Survey
- Legal descriptions for property acquisition
- Design
- Permitting
- Construction Observation/Administration
- Start Up
- Decommissioning & Demolition
- Geotechnical Services



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## TOTEM ROAD PUMP STATION EMERGENCY GENERATORS

Bensalem Township, PA

The Bucks County Water & Sewer Authority needed to provide emergency power at its Totem Road regional pump station in Bensalem, PA. The pump station is a critical link in the Authority's system, conveying flows from their Neshaminy Interceptor to Philadelphia for treatment. To reduce the risk not only to their sewer customers but to surrounding property owners and the environment, the Authority made the decision to move forward with the generator project.

Gilmore & Associates, Inc. worked with the Authority to develop a concept and design which would allow installation of twin 1500 kW diesel powered generators and appurtenant equipment to provide the necessary power. One key aspect of the design was the utilization of an existing, out-of-service building on site to house the generators; using selective demolition, modifications and refurbishment, this approach improved the utilization of a limited site, while eliminating the costs of providing a generator enclosure and eventually demolishing the existing building, adding value for the client.

### Services Provided by G&A

- Design
- Permitting
- Construction Services
- Start-Up

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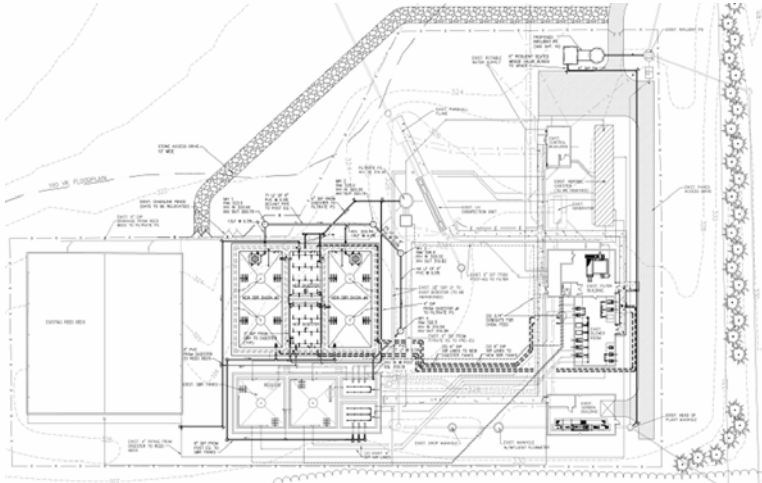


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## MACOBY WASTEWATER TREATMENT PLANT Upper Hanover Township, PA



The Macoby Wastewater Treatment Plant is the Upper Hanover Authority's principal treatment facility serving a rapidly expanding residential/commercial service area. Based upon the results of an Act 537 planning study completed by Gilmore & Associates, Inc. the Authority authorized the expansion of the facility from 0.15 mgd to 0.4 mgd. The plant is also being upgraded to meet higher treatment standards.

Gilmore & Associates, Inc. completed the design and permitting for this \$4 million project in 2009. The principal project components included replacement of the existing influent pump station and aerobic digester, and expansion of the existing disk filter, sequencing batch reactors, UV disinfection system, and chemical feed system. Construction is projected to be completed in 2010. Gilmore & Associates, Inc. is providing observation and administration services during plant construction.

### Services Provided by G&A

- Planning
- Survey
- Design
- Permitting
- Construction Administration

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## HEREFORD AND CHURCH ROAD WATER TRANSMISSION MAINS

Upper Hanover Township, PA

After the Upper Hanover Authority discovered vulnerability of its water transmission and distribution system due to remote water supplies, aging and undersized mains and lack of redundancy, the Authority engaged Gilmore & Associates, Inc. for the planning and design of over 4 1/2 miles of 12-inch PVC and 10-inch ductile iron water main. The new transmission mains were conceived to increase the capacity and reliability of the system.

Project challenges included routing the proposed mains through the township as efficiently and non-intrusively as possible, over easements and natural obstacles, as well as state and local roadways. Consulting engineering services included project and system planning, design of the new water mains, preparation of plans and specifications, land survey, permitting, construction oversight and administration.

### Services Provided by G&A

- Planning
- Easement Development
- Survey
- Design
- Permitting
- Construction Administration



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## NORTHGATE BOOSTER STATION Bedminster Township, PA

Gilmore & Associates, Inc.'s involvement on this project consisted of the design of a new 1.0 MGD Water Booster Station, Well Water Supply and Water Storage Facility to replace an existing booster station. The new facility will continue to serve the existing development and five (5) additional development areas comprised of over 1,000 new dwelling units. Consulting engineering services consist of hydraulic modeling, the design of a new pump building with groundwater supply, 0.40 MG water storage tank and metering/pressure reducing devices, including all associate mechanical, structural, HVAC, electrical and civil/site engineering services. Geoscience services included a preliminary Feasibility study with well-siting services through fracture trace analysis and review of local water quality, Water Resources Impact Study which included exploratory well construction oversight, aquifer testing, hydrogeologic analysis, and reporting.

### Services Provided by G&A

- Planning
- Survey
- Design
- Hydraulic Modeling
- Hydrogeology
- Geoscience/Water Supply
- Environmental Site Assessment
- Water Resources Impact Study
- Permitting
- Construction Administration



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