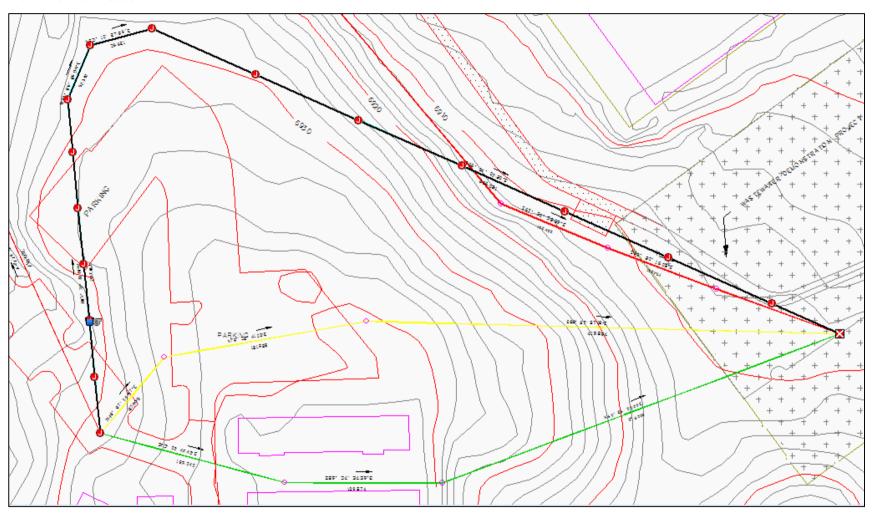
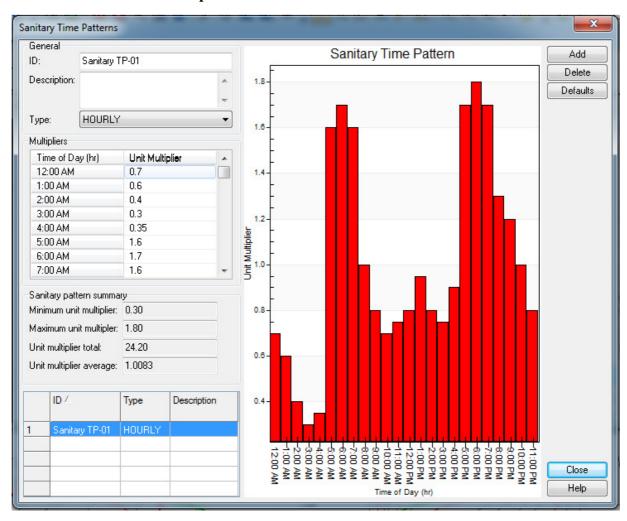
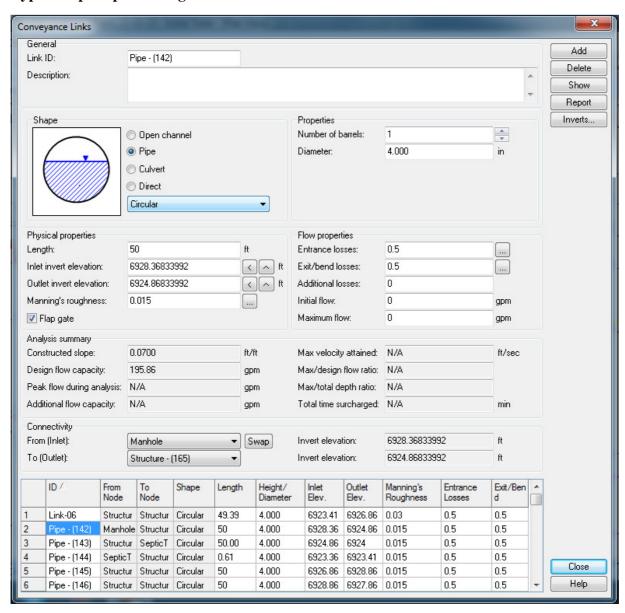
Plan View of Route 4



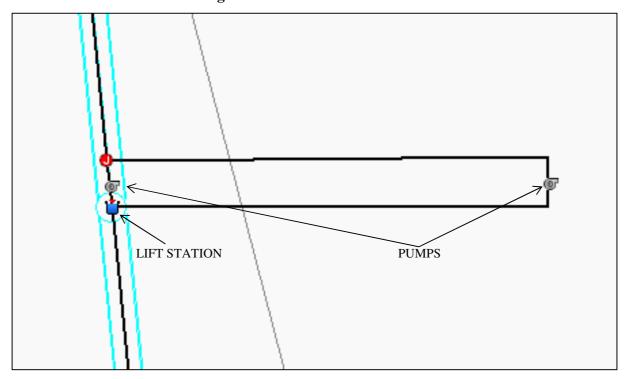
Inflow Time Variance Multipliers



Typical Pipe Input Settings

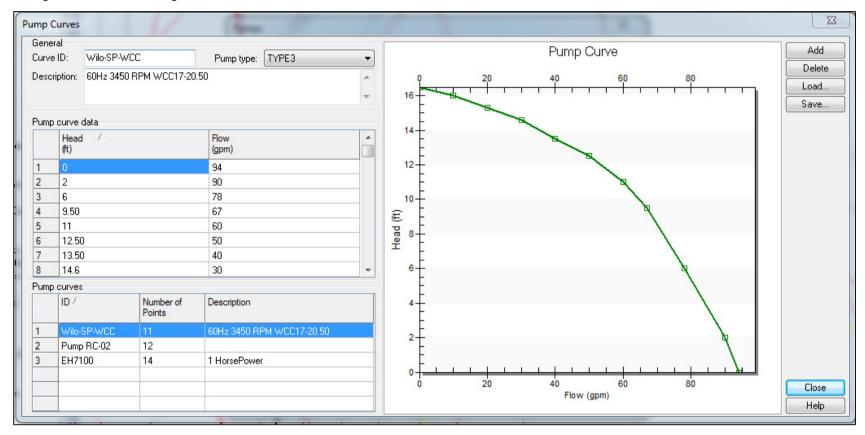


Plan View of Lift Station Configuration



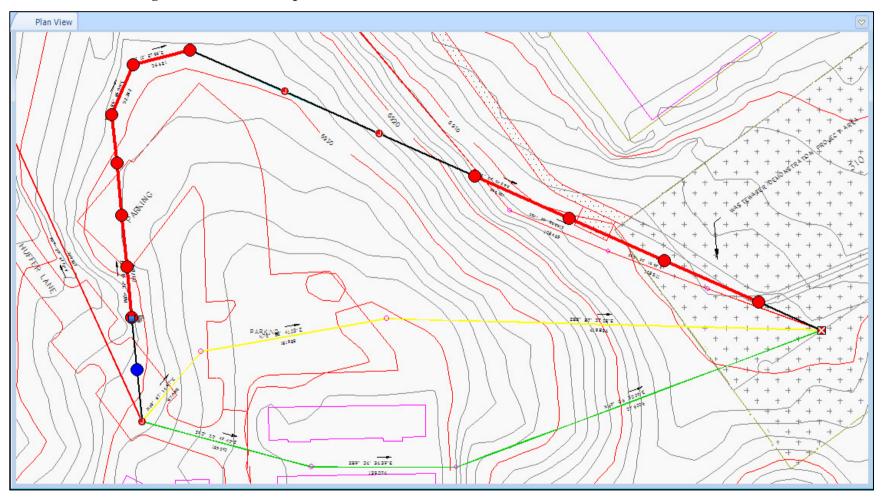
The lift station configuration in SSA utilized the reservoir node and pump conveyance links. The reservoir node represents the 750 gallon Jensen Precast septic tank to be used as a pump chamber. The node following the reservoir is set-up shortly after the reservoir node in order for the software to accurately portray the visual representation of the hydraulic head being increased at the lift station node. The two pumps are set-up in parallel to increase the flow capabilities of the system in case the inflow is high and the system is in threat of being flooded. The second pump will turn on based on a set float level elevation. The system has a third back-up pump for emergency water levels.

Pump Curve Manual Input Method



The pump curve is attained from a pump vendor called Wilo Pumps. The pump curve is manually entered into the software as seen. Various other models of pumps were tested for use in the model to no avail.

Plan View of Surcharged or Pressurized Pipes



The model displays in red any pipe lengths and nodes which are surcharged or pressurized. The pressurized sections show that the pumps are working and pressurizing the water to overcome the static head in the route.

Uphill Junction Calculation Check in Excel

