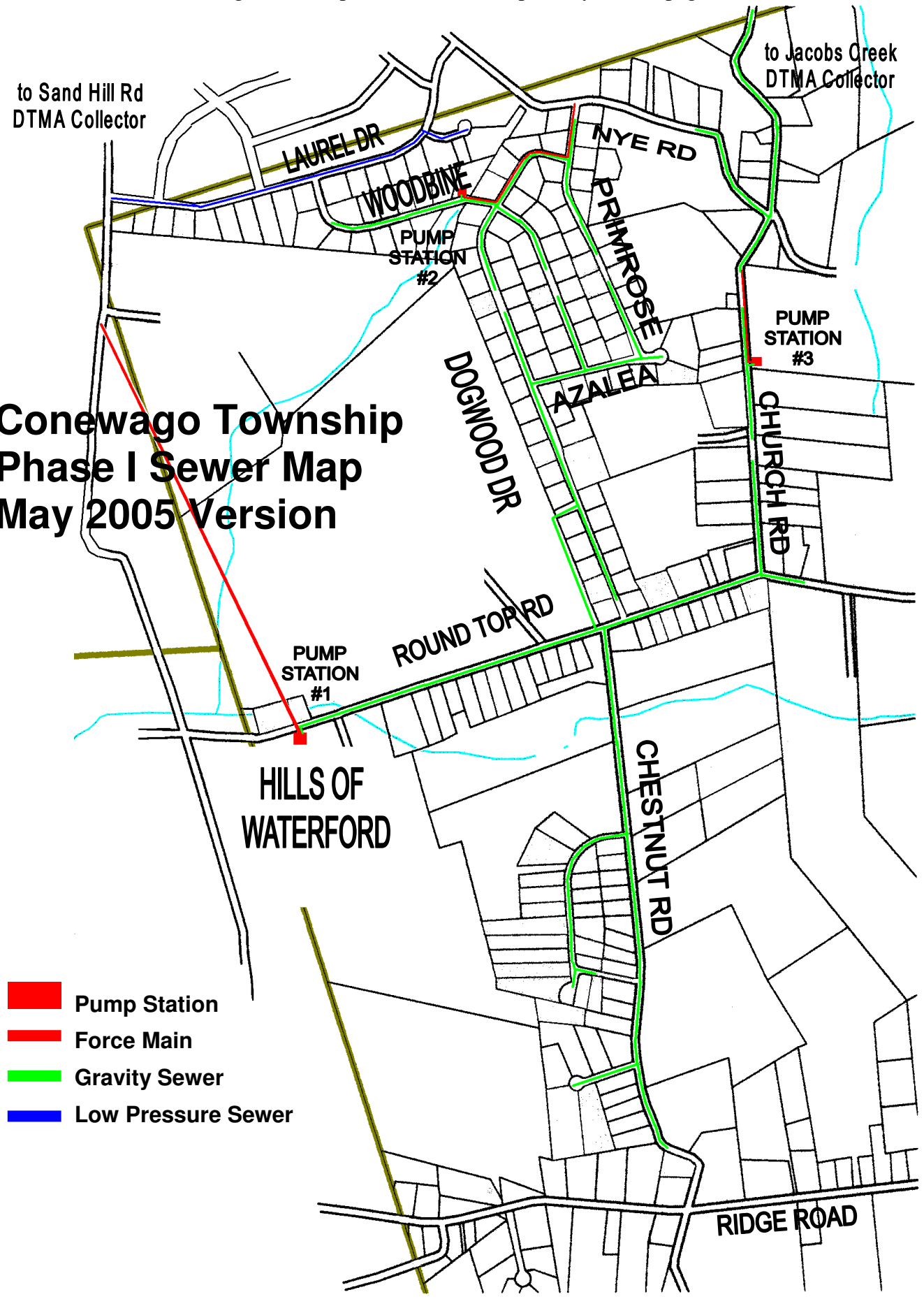






Conewago Township Phase I Sewer Map May 2005 Version



-  Pump Station
-  Force Main
-  Gravity Sewer
-  Low Pressure Sewer

Conewago Township Phase I Sewer Map

May 2005

Pump Stations are electrically powered sump pumps which move sewage up-hill under pressure through pipes called **Force Mains**. The capacity of a Pump Station can vary from fewer than ten homes to hundreds of homes. These pipes are typically smaller (1 1/2 to 6 inches) than Gravity Sewer lines and are installed at relatively shallow depths.

Gravity Sewer lines are typically large pipes (8-10 inches diameter) in which sewage flows by gravity. The sewer lines may be relatively deep (4-20 feet) to maintain a 2% downward slope in uneven terrain. There are four separate sections of Gravity Sewer Lines:

- 1) The main section - drains to the Round Top Road Pump Station (PS1) at the Hills of Waterford. The pump's force main goes to the gravity sewer on Roush Road. This includes the lower sections of Primrose, Woodbine, Azalea and Dogwood, the lower portion of Church Rd, Basler, Blue Ribbon and Chestnut, RoundTop Rd.
- 2) The upper portion of Woodbine, Primrose and Dogwood: This section drains into the Woodbine Rd Pump Station (PS2). The pump's force main goes to the gravity sewer on Nye Road
- 3) Middle Church Road: A small section in the middle of Church Rd drains into Pump Station (PS3). The pump's force main goes to the gravity sewer on Church Road draining to collectors in Jacob's Creek.
- 4) Nye Rd, upper part of Church Road: this gravity sewer drains to collectors in Jacob's Creek.

With the exception of the force main through the Messick farm, and a gravity line running from the low part of Dogwood to Messick's farm and out to Round Top Road, most of the gravity sewer lines and force mains are located in the road right-of-ways.

Low Pressure systems use individual grinder pumps at each residence or business to push sewage uphill to a gravity main. The pipes are typically small (1 1/4 inches) and are installed at relatively shallow depths. There are five sections that use low pressure lines. Also, a grinder pump may be required anywhere a building sewer is below the street sewer.

- 1) Not technically in Phase I, homes on Laurel Drive connect to the existing low pressure system there.
- 2) Scattered houses with a house sewer outlet that is below the level of the adjoining street sewer need a grinder pump to connect.