Appendix F

SATELLITE SYSTEMS

Lakeland Manor Water System

Lakeland Manor is a subdivision located just outside the western limits of the City, as shown on Figure 1. It consists of 43 residential lots. The Lakeland Manor Well that serves this community was constructed in 1969, and upgraded in 1993. It is 100 feet deep, with two (2) submersible pumps and has an annual water right of 40 acre feet per year (AFY). A majority of the 43 lots were connected to the water system in the 1970s. The City has operated the water system since it was purchased by the City in 2009.

Prior to the City purchasing Lakeland Manor, the area was unmetered and the residents were billed at a flat rate. After the City purchased Lakeland Manor, AMR consumption meters were installed to all 43 connections by 2009 and production meters were installed in the system by 2010.

Well water is pumped out of the well by two (2) alternating submersible pumps with nested pressure switch controls. Two (2) large American Society of Mechanical Engineers (ASME) standard pressure tanks and an air compressor with a Robischon magnetic float controller maintain steady water pressure in the distribution system. The distribution piping consists of approximately 0.5 miles of 4-inch diameter schedule 40 PVC main and 300 feet of 2-inch diameter schedule 40 PVC main. The components of the water system are summarized in Table 1.

Table 1 Lakeland Manor Water System Components

Supply	
Lakeland Manor Well	
Well Depth	100 feet
Date Constructed	1969
Date Upgraded	1993
Water Rights	
Qi	100 gpm
Qa	40 AFY
Well Pumps	
Type	Submersible pumps
Number of Pumps	2
Rated Pumping Capacity	100 gpm
Current Pumping Capacity	81 gpm
Pump Controls	Lead pump on at 40 psig, off at 60 psig Lag pump on at 38 psig, off at 62 psig
Treatment	
None	

Note:
(1) Pounds per square inch gauge (psig).
(2) Lakeland Manor Water System has two 120 gallon ASME Pressure Tanks

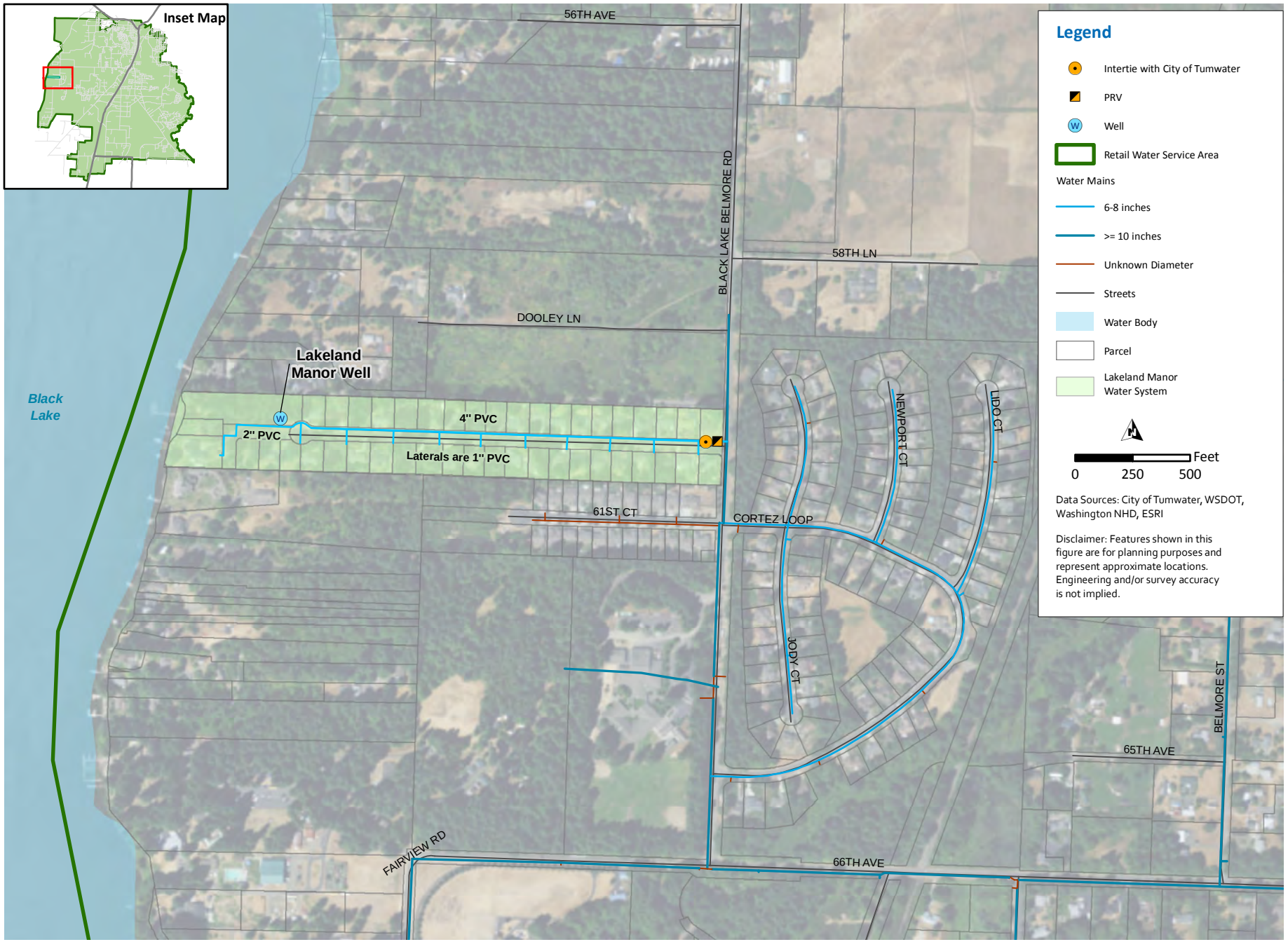

Figure 1 Lakeland Manor Water System

Lathrop Industrial Park Water System

Lathrop Industrial Park is located at the southern tip of the City, as shown on Figure 2. It consists of 15 mixed use, light industrial, and commercial connections that were all constructed in 1981. The Lathrop Industrial Park was originally owned by J.P. Sanderson, Jr. and the water system was designed in 1981. Sanderson sold the water system to Kitsap County PUD, then American Water Resources purchased the system in March of 1997. The City purchased the Lathrop Industrial Park water system in 2009.

The Lathrop Industrial Park Water System consists of a well, submersible well pump, above ground concrete storage reservoir, a booster pump station, and distribution pipes. These components are described in Table 2.

Table 2 Lathrop Industrial Park Water System Components

Supply	
Lathrop Well	
Well Depth	178 feet
Date Constructed	1981
Water Rights	
Certificate #	G2-25876 C
Qi	300 gpm
Qa	70 AFY
Well Pumps	
Type	Submersible pump
Number of Pumps	1
Rated Pumping Capacity	340 gpm
Current Pumping Capacity	65 gpm
Controls	
Treatment	
Chlorine	
Storage	
Type	Concrete Tank
Number of Tanks	1
Volume of Tank	140,000 gallons
Height	35 feet
Diameter	27 feet

Table 2 Lathrop Industrial Park Water System Components (continued)

Pumping	
Booster Station	
Number of Pumps	4
Pumping From	Lathrop Reservoir
Pump Capacity (each pump)	1000 gpm
Total BPS Max Capacity	2800 gpm
Controls	Pumps maintain 40-60 psi water main pressure at pump house

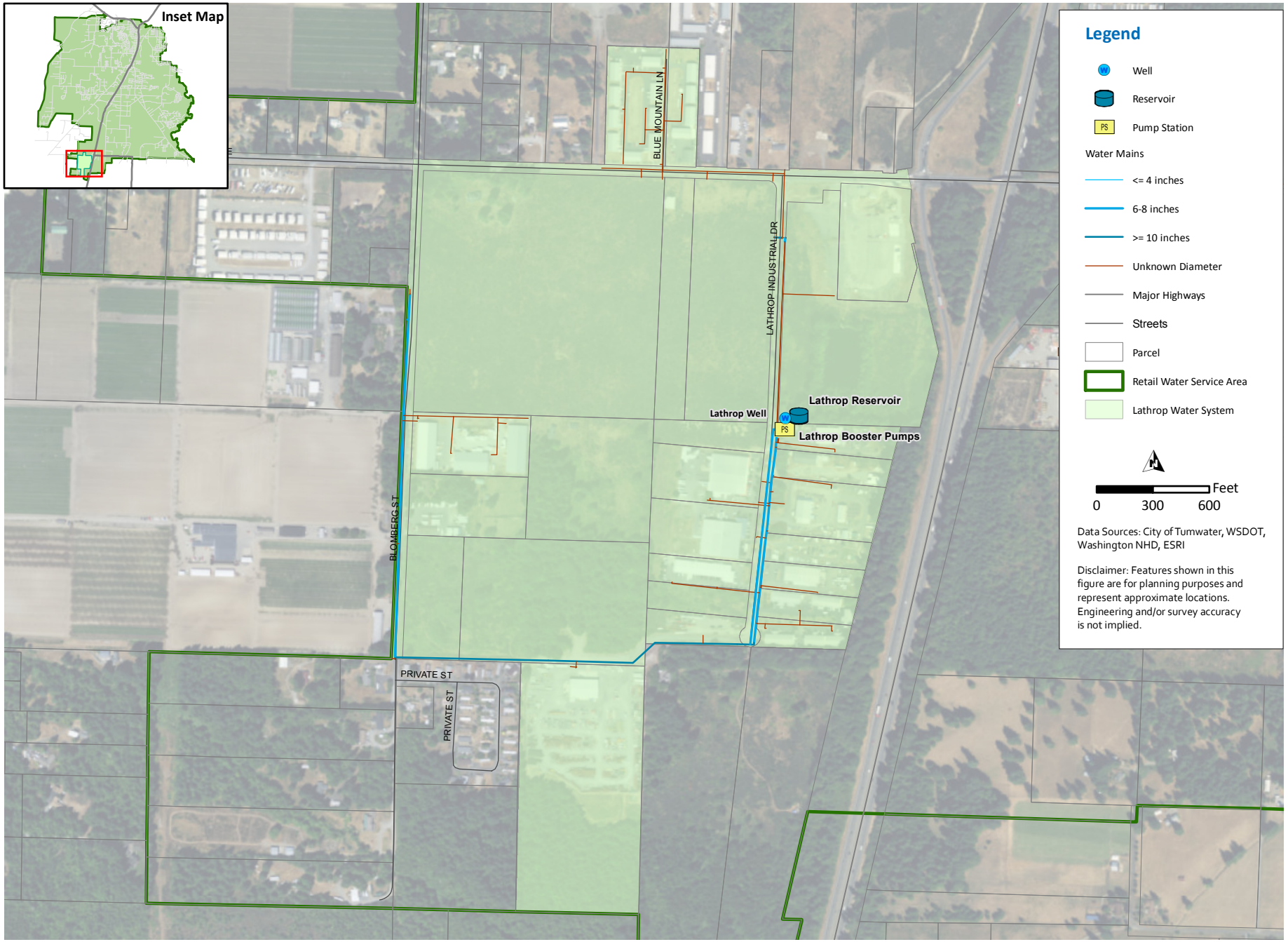

Figure 2 Lathrop Industrial Park Water System