

## LIFT STATION (S)

Project:	<b>Village Lakes</b>		
Engineer:	<b>Emmet Dammon</b>		
General Scope of Project:	<b>Duplex lift station for a 60,000 GPD treatment plant</b>		
<b>PUMPS</b>	# per Station:	<b>2</b>	
	Type:	<b>Barns Submersible non-clog</b>	Power: <b>2.8</b>
	Capacity (GPM):	<b>200</b>	@ <b>25</b> TDH (FT)
	Pump Line Sizes and Type	Suction Line:	<b>4"</b>
		Discharge Line (3 inch min. diameter <u>without</u> grinder pumps; 1 ¼ inch min. diameter <u>with</u> grinder pumps):	<b>4"</b>
		Common Line:	<b>4"</b>
	Max. Solids Passage (in Inches):	<b>3"</b>	
	Gate Valve on Suction <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Gate Valve and Check Valves on Discharge <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>WET WELL</b>	Detention/Design flow (in minutes – 30 min maximum):	<b>10 min</b>	
	Pump Cycle Time:	<b>11.5 min</b>	
	Volume (low water to lead pump on):	<b>470</b>	
	Material:	<b>Concrete</b>	
	Diameter:	<b>4'</b>	
	Bottom Elevation:	<b>34.27'</b>	
	Invert of Influent:	<b>44.91 for north and 36.29 for south</b>	
	Floor Slope:	<b>30 degrees</b>	
	Access Cover Diameter:	<b>n/a'</b>	
	Vented and Screened <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>FORCE MAIN</b>	Size (3 inch min. diameter <u>without</u> grinder pumps; 1 ¼ inch diameter <u>with</u> grinder pumps):	<b>3"</b>	
	Material (specify ASTM standard and standard dimension ratio-SDR):	<b>Sch 40 PVC</b>	
	Velocity (in fps – 2 fps minimum):	<b>&gt;2fps, under preasure</b>	
Lift Station Cover Construction:	<b>24"x36"</b> <b>Aluminum</b>		
Alarm Systems:	Visual:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Telemetric: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Audio:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	