LIFT STATION (S)

Project:	**Village Lakes**			
Engineer:	**Emmet Dammon**			
General Scope of Project:	**Duplex lift station for a 60,000 GPD treatment plant**			
PUMPS	# per Station: **2**			
	Type: **WSP**		Power: **7.5**	
	Capacity (GPM): **405**		@ **25** TDH (FT)	
	Pump Line Sizes and Type	Suction Line:	**3"**	
		Discharge Line (3 inch min. diameter without grinder pumps; 1 ¼ inch min. diameter with grinder pumps):	**3"**	
		Common Line:	**3"**	
	Max. Solids Passage (in Inches):		**2.5"**	
	Gate Valve on Suction ☐Yes ☒No		Gate Valve and Check Valves on Discharge ☒Yes ☐No	
WET WELL	Detention/Design flow (in minutes – 30 min maximum):		**1 min**	
	Pump Cycle Time:	**1 min**		
	Volume (low water to lead pump on):	**282**		
	Material:	**Concrete**		
	Diameter:	**4'**		
	Bottom Elevation:	**33.8'**		
	Invert of Influent:	**44.9 for north and 39.3 for south**		
	Floor Slope:	**0**		
	Access Cover Diameter:	**1.5'**		
	Vented and Screened ☒Yes ☐No			
FORCE MAIN	Size (3 inch min. diameter without grinder pumps; 1 ¼ inch diameter with grinder pumps):		**3"**	
	Material (specify ASTM standard and standard dimension ratio-SDR:		**Sch 40 PVC**	
	Velocity (in fps – 2 fps minimum):	**>2fps, under preasure**		
Lift Station Cover Construction:	**Std manhole**			
Alarm Systems:	Visual: ☒Yes ☐No		Telemetric: ☐Yes ☒No	
	Audio: ☒Yes ☐No			