Stone Luxary Living Lift Station
Sewage Lift Station
Lift Station Capacity

Pump Design Flowrate	**75**	**gpm**	**Per Holloway As-builts**
Estimate Average Flowrate			
# of Sewer Customers =	54		
Equivalent Population =	135	People	
Estimated Average Flow =	13500	gpd	
Estimated Average Flow =	9.38	gpm	
Calculated Peaking Factor =	4.21	gpm	
Peak Flow =	39.43	gpm	
I & I allowance	0	gpm	
Design Flowrate =	39.43		
Say Average Flowrate =	**10**	**gpm**	
Say Design Flowrate =	**75**	**gpm**	
Average Flowrate =	10.00	gpm	
Wetwell Diameter =	6	feet	
Pump On Level =	338.4	feet	
Pump Off Level =	336.85	feet	
Volume to Pump Start =	328	gallons	
Filling Time for Average Flow =	**32.79**	**min**	

Calculate Min Pump Cycle Time - Tmin

P =	75	gpm	(Pump Design Flowrate)

Minimum cycle time will be reached when sewage flow rate is half of the pumping rate.

Tmin =	2V/P		
V =	328	gallons	(Volume to Pump Start)
Tmin =	8.74	minutes	

Alternating Pumps are used, so Tmin per pump = 2* Tmin

Tmin per Pump =	17.49	minutes