

**DESIGN CRITERIA FOR SANITARY SEWAGE LIFT STATION**

**REQUIRED PUMPING CAPACITY**

$$Q_p = Q_d F_p \text{ CAP LOTS} / 1440$$

WHERE:  $Q_d$  = DESIGN FLOW FROM STANDARD DETAIL S-2.  
 $F_p$  = PEAKING FACTOR FROM STANDARD DETAIL  
 CAP = CAPITA PER UNIT FROM STANDARD DETAIL  
 LOTS = NUMBER OF LOTS TO BE SERVED BY THE STATION.  
 AND:  $Q_p$  = PUMPING RATE FOR A SINGLE PUMP.

**REQUIRED PUMPING WELL VOLUME**

$$V_w = 8.02 Q_p / St$$

WHERE:  $Q_p$  = PUMPING RATE IN GPM FOR A SINGLE PUMP.  
 $St$  = STARTS PER HOUR, 6 FOR SUBMERSIBLE PUMPS AND  
 3 FOR ALL OTHERS.  
 AND:  $V_w$  = PIT VOLUME, MINIMUM, IN CUBIC FEET.

NO.	REVISED	BY	<b>Lift Station Design Data</b>	APPROVED
				
				CITY ENGINEER RCE-28191
DRAWN BY: TP				DATE: 2-2-99
CHECKED BY: DJR			<b>CITY OF RIPON</b>	STANDARD NO. <b>S-3</b>
V:\125_City of Ripon Standards\Standard Specifications\Drawings\Sewer\ S-3.dwg				