Four Rivers Sanitation Authority Engineering Dept. 3501 Kishwaukee Street Rockford, Illinois 61109 Schedule F - Sewer System Lift Station / Force Main

1. Name of Project:						
2. Design Population: Area to be served acres. Population to be served P.E.						
3. Design Flows: Design Average Flow gpm. Design Maximum Flow gpm.						
 4. Lift Station will serve: Only separate sewersYesNo Domestic waste sewersYesNo Domestic & industrial wastesYesNo 5. Lift Station is designed to serve: Only the population indicated aboveAn anticipated additional waste contribution ofP.E. 						
6. Force Main: Size of Force Main (inches) Total Length (feet)						
Pipe material specifications Joint specifications						
Are air relief valves provided at high points?YesNo						
Are clean-outs (blow-offs) provided at low points?YesNo						
7. Design Head (Total Dynamic Head):						
Static Head: Forcemain High Point Elevation: Low Water Elevation :						
Static Head : (A) Feet						
Pipe friction loss:(B) Feet at "C" = 100 or(Attach calculations)Feet at "C" = 120						
Minor Losses (Valves, etc.) : (C) Feet at "C" = 100 (Attach calculations)						
Total Dynamic Head (A + B + C) Feet						

8. Pumps

Number of Pumps	Type of Pumps	GPM per Pump	at TDH (Feet)	HP of Each Pump	Pass 3" Spheres
					Yes No
					Yes No
					Yes No

a. Rated Capacity of Lift Station ______ gpm at _____ feet of TDH.

b. Pumping Capacity with Largest Unit Out of Service	gpm at feet of TDH.
c. Are all pumps with positive suction head and/or self priming?	YesNo
d. Have provisions been made to detect shaft seal failure or potential shaft	ft seal failure? Yes No
9. Valves	
a. Discharge PipeGateCheckOther Other _	ther Other
10. Wet Well	
 a. Effective capacity (volume between pumps off and pumps on switches b. Detention time at design flow = minutes c. Are there provisions for pump removal?Yes No) = gallons
11. Buoyancy Calculations	
a. Have buoyancy calculations been submitted?Yes No N/ b. Depth of groundwater table: feet below the ground su	
12. Accessibility	
Is the pump station accessible by an all weather road?	YesNo
13. Ventilation a. Wet Well:Continuous with at least 12 complete air changes per hour?Intermittent with at least 30 complete air changes per hour?	Yes No Yes No
 b. Dry Well (if applicable): Continuous with at least 6 complete air changes per hour? Intermittent with at least 30 complete air changes per hour? 	YesNoN/A YesNoN/A
c. Is portable ventilation equipment available for use at all times?	Yes No
14. Emergency Operations	
a. In case of power failure, is an alternate power supply available? If yes, please describe the source of the alternate power supply.	Yes No
b. Is a portable pump, with adequate pumping capacity, available for use c. Has a riser from the force main been provided to hook-up portable pun d.Length of time between a power failure and commencement of pumpin e. Estimated time interval before damage or sewer backup will occur	nps?YesNo g by emergency equipment
f. Type of alarm system proposed: Telemetering System Aud	
g. Are personnel available at all times to operate emergency equipment?	Yes No
15. Flow Measurement	
	ed time meters ITR

16. Compliance with Illinois Recommended Standards for Sewage Works

a. Can the pump station remain operational during the 25-year flood?	Yes No
b. Is the pump station protected from physical damage during the 100-year flood?	Yes No
c. When applicable, will electrical systems and components comply with NEC	
requirements for Class I, Group D, Division I locations?	YesNo
d. Have provisions been made to automatically alternate the pumps?	Yes No
e. Is the motor control center located outside and protected by a conduit seal?	Yes No
f. Can the motor be electronically disconnected without disturbing the seal?	Yes No

This Agency is authorized to require this information under Illinois Compiled Statutes, 1998, Chapter 415, Title X, Section 5/39 et seq.. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied.