

DESIGN CRITERIA

Station Type _____ (Dry Well - Wet Well, Submersible)

Flow Information

Average Domestic (GPM)
II (GPM)
Peak Factor
Peak Flow (GPM)
Required Pump Capacity (GPM)
Pressure at the Point of Connection to Force Main (PSI)
(Obtained from MD-WASD) Maximum _____ Minimum _____
Max. Static Head (Feet) _____ Min. Static Head (Feet) _____
TDH Max. (Feet) _____ TDH Min. (Feet) _____

Dimensions

Dry Well (H x L x W or H x Dia, Feet) _____
Wet Well (H x L x W or H x Dia, Feet) _____

Elevations

Pump On & Off, Feet On _____ Off _____ Top of Wet Well, Feet _____
Gravity Sewer Invert, Feet _____ Bottom of Wet Well, Feet _____
Receiving FM Centerline, Feet _____ Pump Centerline, Feet _____

Wet Well

Volume, Gallons _____ Pump Time for Ave. Flow, Min. _____
Required Volume, Gallons _____ Pump Time for Peak Flow, Min. _____

Pumps (Fill in Pump Schedule on Page 3 of this package)

No. of Units _____ Running Time, Hours per Day _____ Starts per Hour _____

Piping

Suction Diameter (Inches) _____ Velocity (fps) _____ to _____
Discharge Diameter (Inches) _____ Velocity (fps) _____ to _____
Force Main Diameter (Inches) _____ Velocity (fps) _____ to _____

Valve Vaults

Dimensions, H x L x W (Feet) _____
Piping Diameter (Inches) _____

Electrical Equipment

Power Supply (Volts/Phase/Hertz) _____
Starters (Full, Soft, Variable Frequency Drive) _____
Control Panel Location _____

Wet Well Level Water Level Instrumentation

Type _____
Manufacturer _____
Model _____

Radio Transmitter Characteristics

Manufacturer _____
Model _____

Emergency Generator

Capacity (KW) _____ @ _____ (rpm)
Fuel Type _____
Location _____
Fuel Storage Capacity (Gallons) _____
Days Available w/ 1 pump demanding Max. Power _____
Describe Leak Detection Provision:

Construction Cost Estimate \$ _____

REMARKS (If any of the above information is not applicable to this project, please explain why.)

PUMP DATA

PUMP DATA			
FLUID			
INSTALLATION LOCATION			
PUMP TYPE			
RATED POINT	CAPACITY, GPM		
	TDH, FEET		
SHUT OFF HEAD, FT			
CONTINUOUS	MAXIMUM TDH, FT		
	CAPACITY, GPM		
	MINIMUM TDH, FT		
OPERATING RANGE	CAPACITY, GPM		
	RUNOUT, FT		
	MAX. NPSHR		
	MIN. PUMP EFFICIENCY	AT B.E.P., %	
		@ RUNOUT, %	
	PUMP CONSTRUCTION	CASING	
IMPELLER			
SHAFT			
BEARINGS L-10 LIFE, HRS.			
MAX. SHAFT DEFLECTION IN OPERATING RANGE, MILS			
MAX. VEL. OF VIBRATIONS IN OP. RANGE, INCH/SEC.			
PUMP CONNECTIONS	SUCTION, INCHES		
	DISCHARGE, INCHES		
ELECTRIC MOTOR	RATED HP		
	RPM		
	S.F.	1.15	
	AMBIENT TEMP. FOR MOTOR RATING; °C		
	MAXIMUM TEMP. RISE, °C	40	
	BEARINGS L-10 LIFE, HRS.		
	MAX. VIBRATION AMP., MILS		
	NOISE LEVEL, dB@1 METER		
NEMA DESIGN CODE LETTER	B		
START. CURR. LETTER CODE	G		
INSULATION CLASS	F		
MOTOR RATED HP NOT OVERLOADED AT ANY POINT IN THE SPECIFIED OPERATING RANGE AND BY NO MORE THAN 10% ON THE PUMP PERFORMANCE CURVE.			
MANUFACTURERS & MODELS	PUMP		
	MOTOR		