

PUMPING OPERATIONS WITH RISING WATER LEVEL				
FUNCTION	SCADA		FLOAT	
	ELEVATION (FT)	LEVEL ABOVE WET PIT FLOOR (FT)	ELEVATION (FT)	LEVEL ABOVE WET PIT FLOOR (FT)
LOW FLOW PUMP (LFP) START	676.00	4.5	676.00	4.5
LEAD MAIN FLOW PUMP (MFP) START	678.00	6.5	678.00	6.5
LOW FLOW PUMP (LFP) STOP	678.00	6.5	678.00	6.5
LAG MAIN FLOW PUMP (MFP) START	680.00	8.5	680.00	8.5
HIGH WATER ALARM	682.30	10.8	682.30	10.8

PUMPING OPERATIONS WITH FALLING WATER LEVEL				
FUNCTION	SCADA		FLOAT	
	ELEVATION (FT)	LEVEL ABOVE WET PIT FLOOR (FT)	ELEVATION (FT)	LEVEL ABOVE WET PIT FLOOR (FT)
LAG MAIN FLOW PUMP (MFP) STOP	678.00	6.5	678.00	6.5
LEAD MAIN FLOW PUMP (MFP) STOP	676.00	4.5	676.00	4.5
LOW FLOW PUMP (LFP) START	676.00	4.5	676.00	4.5
MAIN FLOW PUMP (MFP) FAILURE TO STOP ALARM	674.00	2.5	674.00	2.5
LOW FLOW PUMP (LFP) STOP	672.00	0.5	672.00	0.5
LOW WATER ALARM	671.50	0.0	671.50	0.0

PUMP SCHEDULE									
ITEM	LOCATION	ELEC. MOTOR CHARACTERISTICS						PUMP CHARACTERISTICS	
		KW	HP	RPM	VOLTS	PHASE	HZ	FLOW (GPM)	HEAD (FT)
MAIN FLOW PUMP (MFP-1)	DRY WELL	26.0	35	1,200	460	3	60	3,000	27.6
MAIN FLOW PUMP (MFP-2)	DRY WELL	26.0	35	1,200	460	3	60	3,000	27.6
MAIN FLOW PUMP (MFP-3)	DRY WELL	26.0	35	1,200	460	3	60	3,000	27.6
LOW FLOW PUMP (LFP-4)	DRY WELL	11.2	15	1,800	460	3	60	1,000	32.4
SUMP PUMP	DRY WELL	0.4	1/2	3,450	240	1	60	20	30.0

NOTES:

1. THE DESIGN OF THE PUMP STATION HAS BEEN BASED ON A SPECIFIC PUMP(S). OTHER PUMPS PRODUCING THE SAME HYDRAULIC CHARACTERISTICS ARE ACCEPTABLE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL ADJUSTMENTS TO THE STATION TO ADAPT THE FINAL ACCEPTED PUMPS AT NO ADDITIONAL COST.
2. THE STAND-BY MAIN FLOW PUMP SHALL START ONLY WHEN THE OTHER MAIN FLOW PUMPS FAIL.

M7

DESIGNED	DF	REVISED	-
CHECKED	APF	REVISED	-
SCALE	DRAWN DF	REVISED	-
DATE	03/22/2012	CHECKED	APF
		REVISED	-

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338/IL 59	2011-035-I	DUPAGE	181	116
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P41	