



DRAWING NOT FOR SUBMITTAL.
CONTACT PARKUSA FOR LIFT
STATION DESIGN ASSISTANCE.

ONLY ONE PRIMARY PUMP TO RUN AT A TIME
(ALTERNATING STARTS)

STATION OPERATION LEVELS		
RISING LEVEL CYCLE		
WATER LEVEL ELEVATION	ACTION	PUMPS IN OPERATION
XX.XX'	JOCKEY PUMP ON, FS-2	JOCKEY PUMP
XX.XX'	PUMP ONE TURNS ON, FS-4	JOCKEY OFF
XX.XX'	PUMP TWO	ONE AND TWO ALTERNATE
XX.XX'	HIGH LEVEL ALARM ON, FS-5	PUMP 1 RUNNING
XX.XX'	REMOTE DITCH FLOAT OFF, FS-6	PUMPS OFF/GRAVITY FLOW
FALLING LEVEL CYCLE		
WATER LEVEL ELEVATION	ACTION	PUMPS IN OPERATION
XX.XX'	REMOTE DITCH FLOAT ON, FS-6	PUMPS ON/PUMPED DISCHARGE
XX.XX'	PUMP 1/PUMP 2 OFF, FS-3	JOCKEY PUMP ON
XX.XX'	JOCKEY PUMP OFF, FS-1	ALL PUMPS OFF
XX.XX'		ALL PUMPS STOPPED - STANDBY PUMP SWITCHES TO LEAD PUMP

NOTE:
ALL DASHED PIPING TO BE
FURNISHED BY CONTRACTOR

NOTE:
VERIFY ALL ELEVATIONS
PRIOR TO FABRICATION

KEYED NOTES		
MARK	QTY	DESCRIPTION
1	2	12" AXIAL FLOW PUMP (TYP-2)
2	2	BELL SUCTION w/ ANTI-VORTEX SCREEN
3	1	4" SUBMERSIBLE JOCKEY PUMP W/BASE ELBOWS
4	1	SS LIFTING CHAIN
5	5	TYPICAL FLOAT SWITCH
6	1	120" DIA x XX'-XX" DEEP CONCRETE WET WELL
7	1	12" THK FLAT CONCRETE TOP
8	1	30"x36" SINGLE LEAF ALUMINUM HATCHWAY
9	2	SAFETY NET
10	1	6" GALVANIZED VENT
11	1	4" D.I. DISCHARGE PIPE
12	1	4" FLxMJ 90° ELL
13	2	12" PIPE COLUMN
14	2	22" BLOCK-OUT FOR PUMPS
15	2	3" ELECTRICAL COUPLING (TYP-2)
16	2	SS GUIDE RAIL
17	1	SS UPPER GUIDE BRACKET
18	1	LIFT-OUT ASSEMBLY
19	2	SS CABLE BRACKET
20	1	TRIPLEX CONTROL PANEL (REMOTE MTD) w/ GENERATOR RECEPTACLE
21	2	12" DISCHARGE PIPE (BY OTHERS)
22	-	REBAR AS REQ'D
23	-	ALL JOINTS MADE WATER-TIGHT w/ PLASTIC FLEXIBLE GASKET (RAM-NEK)
24	1	NAMEPLATE INDICATING: MFG: PARKUSA 888-611-PARK WWW.PARKUSA.COM MODEL: WW120-T-12-2723-32-400-43 DATE MANUFACTURED
25	2	12" DEZURIK L&W SWING CHECK
26	1	(7PCS) LS-410 LINK SEAL w/ GALV SLEEVE
27	1	REMOTE MOUNT DITCH FLOAT (MOUNTED & WIRED BY OTHERS)
28	1	4" BALL CHECK VALVE
29	2	4" FLxFL DI 45° ELL
30	1	INTERMEDIATE GLIDE BRACKET
31	1	4" DEZURIK L&W SWING CHECK VALVE

MODEL NUMBER: PARKUSA 888-611-PARK, WWW.PARKUSA.COM WW120-T-12-2723-32-400-43	
WET WELL SIZE (ID)	POWER CHARACTERISTICS
48 - 48" DIA	43 - 460V/3PH/60Hz
60 - 60" DIA	23 - 230V/3PH/60Hz
72 - 72" DIA	21 - 230V/1PH/60Hz
84 - 84" DIA	
PUMP CONFIGURATION	PUMP MOTOR SIZE
S - SIMPLEX	020 - 2.0 HP
D - DUPLEX	030 - 3.0 HP
	050 - 5.0 HP
	075 - 7.5 HP
	100 - 10.0 HP
	400 - 40.0 HP
	ETC...
DISCHARGE SIZE	PUMP HEAD CAPACITY (TDH)
8 - 8"	8 - 8' TOTAL DYNAMIC HEAD
12 - 12"	20 - 20' TOTAL DYNAMIC HEAD
24 - 24"	ETC...
30 - 30"	
FLOW RATE CAPACITY (GPM)	
765 - 765 GPM	
2000 - 2000 GPM	
ETC...	

Specifications

CONCRETE:
Class I/II concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor, first stage of wall and baffle with sectional riser to required depth.

REINFORCEMENT:
Grade 60 reinforced with steel rebar conforming to ASTM A615 on required centers or equal.

C.I. CASTINGS:
Manhole frames, covers or grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30. Manhole shall have 24 inch inside diameter and be traffic duty.

ALUMINUM HATCHWAY
1/4" Aluminum diamond plate cover, with 1/4" extruded aluminum frame. Hatch to be furnished with 316 Stainless Steel snap lock & brass hinges.

PUMPS:
Pumps shall be centrifugal solids handling type with submersible type motor. Pumps shall have a capacity as follows:

PUMP No.	TYPE	GPM	TDH	RPM	HP	V	PH	Hz
1	AXIAL	2723	32	1750	40	480	3	60
2	AXIAL	2723	32	1750	40	480	3	60
3	NON-CLOG	450	22.5'	1750	5	480	3	60

CONTROLS:
Pump controls shall be mounted inside a UL Listed NEMA-4X enclosure and include circuit breakers, alarm circuit fuse, IEC rated motor starter, pump HOA, generator receptacle and alternator relay. Panel shall have a visual alarm beacon. Panel is designed for remote mounting.

Engineering Data
Field excavation and preparation shall be completed prior to delivery of assembly. Use dimensional data as shown. All pipe, valves and fittings of the assembly are approved by one of the following associations:



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REV	DATE	BY	DESCRIPTION
PROJECT:			
CUSTOMER:			
ENGINEER:			
ORDER #:		PROJ #:
DATE:		LOCATION:
PARKUSA A Northwest Pipe Company			
STORM SEWER LIFT STATION TRIPLEX AXIAL FLOW PUMP SYSTEM			
PM	PC	DRN	ENG
DWG. NO.			REV.
DATE	10/22		WW120-AXT12/4
			A

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