## LIFT STATION PRELIMINARY DESIGN

FORCE MAI		4" - phase 1		_	OB NAME: COMPANY:					
New		DI class 51			CONTACT:					
	nge in Elevation:			BY:			DATE:	12/2/2014	Rev.#	INI.
FLOW:	-	325 @88.8FT	GPM		Wastewat	er l		Flow 12-10-14	R1	AD
	Pumping Rate:	_	GPM					ments 2-24-15		KAS & AD
100CDM DU				4			•			KAS
100GPM PHASE 1 ACTIVE VOLUME:		Full build out 325	<u>@</u> 00.01	ι				mments 5-5-15		
_	_				Re	evised	per com	ments 5-12-15	<u>K4</u>	AD
	Starts Per Hour:								D.1.4	
Pump	Starts per hour:				\$.K.95			(A. 10 (A. 10))	RIM:	988.60
	Cycle Time Gallons:					error (1967)	hard (M.A		FG:	988.60
	Well Diameter:									
	Well Area:							S.	Discharge:	985.10
	Depth Required:				<b>"</b> [i]	$\neg$		Ĉ.	Discridige.	300.10
	Set Depth:									
PHYSICAL E	ELEVATIONS:				<u> </u>	\$				
	Finish Grade:	988.60			: :		_		Influent:	974.28
	Wet Well Rim:	988.60					_	(3.5) (3.5) (3.6)	HL/Lag-Lag:	973.87
	Influent Invert:	974.28					_		Lag Start:	973.37
	Influent Depth:						▼		Lead Start:	972.87
Di	sch. Piping Elev:									
	FM Discharge:							[**		
	FM High Point:									
	Sump Depth:				•		▼		Lead Stop:	969.87
	Sump Elevation:									
WET WELL:					ैं				_	
Canavata	Min. Barrels:								Sump:	967.87
Concrete	Barrels:				SUCCEST	EDIE	<u>∵diaan</u> SVELEI	EVATIONS	Base:	966.87
Discharge Outlet		RU custom SUGGESTED LEVEL ELEVATIONS: 4" elbow High Level: 973.87								
L	RFCA:				High Level: Lag Start:		3.37	Lead Stop:	969.87	
	_	Full Traffic			Lead Start:		2.87	Lead Stop.	303.07	
Г	Discharge Piping:				PUMP:	31	2.07			
	rge Piping Style:				_	Ebara	1	DUTY POINT:		
	Crane:			Phase 1	_			Static:	16.1	
С		524F Socket base	)				MKFMU62	TDH:	24.5	
		Std. Powder Coa			Head:			Attachments:		
	Lining:	Unlined			Impeller:	5.87				
	Deflector:			Н	orsepower:	3 HP		Offering:	Complete	System
		Mushroom cap ve	ent		Setup:			Equipment:		
	LT: Valve Size:						MKFMU61	5		
\	/ault Model/Size:				Head:					
		Full traffic			Impeller:			<b>-</b>		
	<u>Options:</u>	Flow Meter		Н	orsepower:			•	Mechanica	I & Electrica
		Pumping Port			Power:	46UV	/ 3-Pha	se		
METED VAI	II T. Valva Siza:	Custom height		ĸ	liver Value	NI/A				
	JLT: Valve Size: ault Model/ Size:	13/73		<u>IV</u>	<u>lixer Valve:</u> GENERAT					
V	Hatch:				Model:					
	Meter Model:				Enclosure:					
	Options:			Tr	ansfer Sw.:					
	<u>- 12.11-11-01</u>			•••	Options:					
CONTROLS	: Power:	480V / 3-Phase		Pun	nps running					
		MicroLogixs 1400	)			be de	signed f	or the future pu	mps.	
		Pressure Transdo	ıcer					-		
	Back-up Sensor:									
		Arc Armor								
	Options:	Color HMI			Phase 1 pt	umping	rate 10	0 <mark>0gpm @ 24.5ft</mark>	by our calc	ulation.
		Radio Modem								
ANTT: -:-		N//A								
CNTRL BLD	OG: Type: Size:	N/A								
	C170.									

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