PROJECT INFO

Job Name:	**Lusted Pump Station**
Company:	**Cardno**
Contact:	
Job Type:	**New Station**
Water Type/Source:	**Wastewater (Sewage)**
Import/Domestic:	**Import Acceptable**

PACKAGE/STARTUP

Offering:	**Complete System**
Mechanical:	**All by Romtec Utilities**
Pumps:	**By Romtec Utilities**
Control Panel:	**By Romtec Utilities**
Generator:	**N/A**
Advisor/Startup:	**Mechanical & Electrical**

DESIGN CRITERIA

FLOW RATE

Peak Inflow:	**135**	GPM
Pumping Rate:	**160**	GPM (of single pump)
Static Head:	**50.8**	Feet
TDH:	**69.4**	Feet
TDH Calcs:	**RU Calcs**	

ACTIVE VOLUME

Max Pump Starts:	**10.00**	Starts/Hr
Cycle Time:	**6.00**	Minutes
Active Volume:	**240.00**	Gallons
Active Volume:	**32.08**	Cu Feet
Well Shape:	**Round**	
Well Diameter:	**6**	Feet
Well Dimensions:	**N/A**	**N/A**
Cross-Section Area:	**28.27**	Sq Feet
Min. Depth Required:	**1.13**	Feet
Active Depth:	**1.20**	Feet

STORAGE VOLUME (if required)

Time:		Minutes
Flow Rate:		GPM
Volume:	**0.00**	Gallons
Volume:	**0.00**	Cu. Feet
Min. Depth Required:	**0.00**	Feet
Storage Depth:		Feet

ON-SITE POWER

Power:	**480V / 3-Phase**

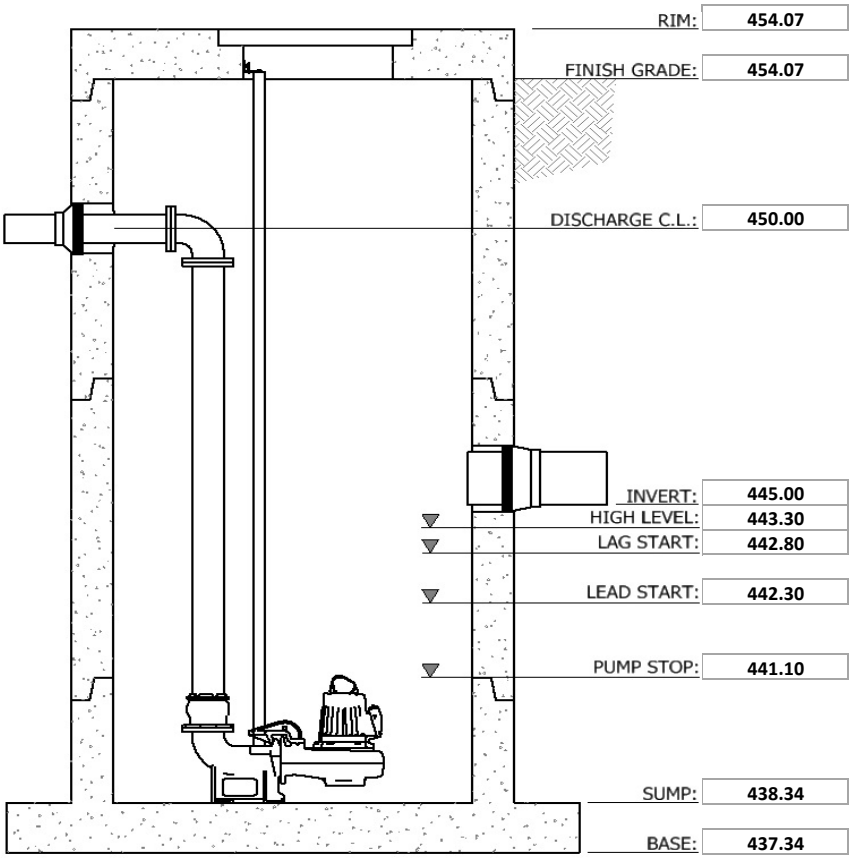
FORCE MAIN

FM Info:	**New**	**Single FM**	
Length:	**910**	Feet	
FM Discharge:	**491.93**	Feet	
FM High Point:	**491.93**	Feet	

	(1)	*(2)*	*(3)*
Nominal ID:	**4"**		
Type/Rating:	**HDPE SDR11 DIPS**		

INFLUENT PIPING

	(1)	*(2)*	*(3)*
Influent Invert:	**445**		
Influent Size:	**8"**		
Type:	**PVC (IPS)**		



Note: Image is a preliminary representation of the pumping system.
Elevations shown are the primary factors used for sizing the wet well.
Backup levels not shown. Additional (or fewer) level settings may be required.

1.03 DESIGN CRITERIA

Romtec Utilities has created this SSDS based solely on the design criteria listed below that the customer and/or customer's representative has provided. It is the responsibility of the customer as well as any other reviewing entities, to verify that the stated design criteria is accurate. Romtec Utilities has not verified the design criteria and does not have responsibility for confirming its accuracy.

Project Name:	Sam Barlow High School
Design information provided by:	Cardno
Source of Water:	High School
Water Type:	Wastewater
Final Owner/Operator:	Gresham/Barlow School District
CAD site plan available at this time?	No
Does this project require "Buy America" materials?	No
Influent sewer elevation into wet well:	521.72
Force Main is (new/existing):	New
Force main length (ft.):	733
Elevation at end of force main (ft.):	537.74
Force main inside diameter (in.):	4
Force main pipe material:	PVC SCH40
Peak design inflow into lift station (g.p.m):	36
System Total Dynamic Head (ft.):	29.1
Pumping Rate (g.p.m):	125
Pumping rate as compared to peak inflow is (less than/equal/greater:	Greater
Power Supply Voltage:	480V
Power Supply Phase:	Three-Phase
Is the lift station a classified space thus requiring the pumps to be explosion proof?	Yes