

2.02 LIFT STATION DESIGN CRITERIA

Romtec Utilities has designed this Scope of Supply and Design Submittal based on the following information:

PART 1: PROJECT CONTACT INFORMATION

Date: 4/22/2016

Project Name: Unit 1 Blowdown Sump

Information here in provided by: Worley Parsons

Name: _____

Email Address: _____

Telephone: _____ Phone Ext: _____

Project Site Address: Orlando, FL

ACAD site plan drawing available at this time? No Yes No N/A

Final Project Owner and/or Operator: Orlando Utilities Commission

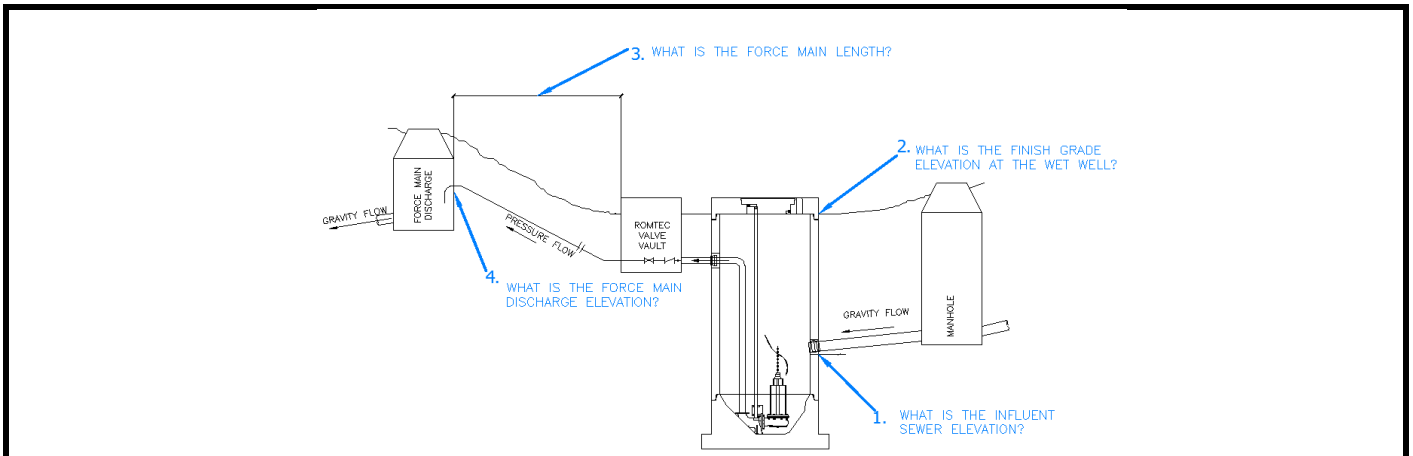
Governing Sewer or Water Authority: Orlando Utilities Commission

Does Authority have a lift station standard? No Yes No N/A

Does this project require "Buy America" materials? No Yes No N/A

PART 2: DESIGN DATA

Note: The drawing below is purely to represent elevations. It does not reflect the design of the lift station.



Water Type: Power Generation Blowdown water (pH range = 8.5-9.9, Temp.=225 F, max operating between 212-215 F)

Peak design inflow (max flow to lift station): 800 g.p.m.

Pumping Rate: 800 g.p.m. @ 90 ft. TDH

1. Influent sewer elevation: 76.5 ft. (Ground Water Level = 76.5')

2. Finish grade elevation at wet well: 82 ft.

3. Force main length: 1700 ft.

4. Force main discharge elevation: 88.5 ft.

Force main diameter: 6 in. inside dia.

Force main material (PVC, DI, etc.): Carbon Steel pipe coated

Force Main is: New New Existing

Force Main Discharge (manhole, pressure force main, etc.) ?

Standby generator: N/A Permanent Portable N/A

Generator fuel: Diesel Natural Gas

Power Supply: 480V 480V 240V 208V

Power Supply: Three-Phase Three-Phase Single-phase

Is lift station a classified space? No Yes No

1.04 DESIGN CRITERIA FORM

Romtec Utilities has designed this Scope of Supply and Design Submittal based on the following information provided by:

Date: 10/24/2017
 Project Name: Unit 1 Blowdown Sump
 Information here in provided by: Worley Parsons
 Name: _____
 Email Address: _____
 Telephone: _____

DESIGN CRITERIA

Project Site Address: Orlando, FL
 CAD site plan available at this time?

No	Yes	No	N/A
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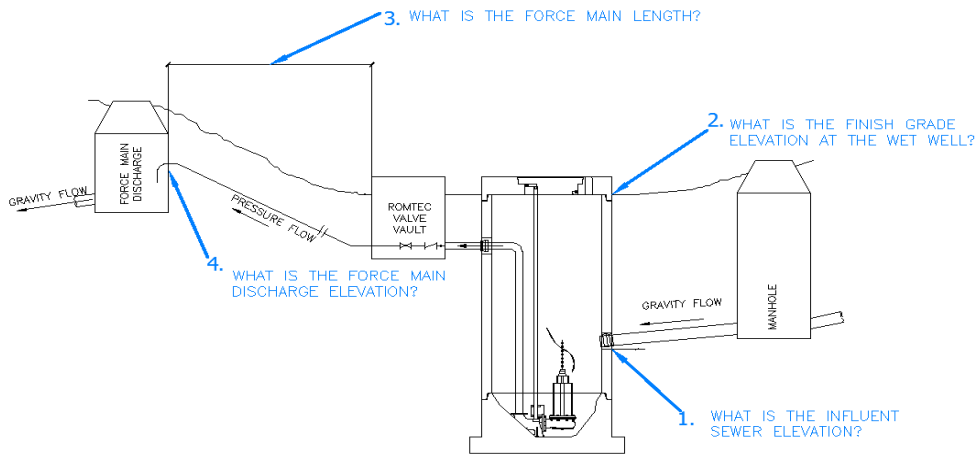
 Final Project Owner and/or Operator: Orlando Utilities Commission
 Governing Sewer or Water Authority: Orlando Utilities Commission
 Does Authority have a lift station standard?

No	Yes	No	N/A
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 Does this project require "Buy America" materials?

No	Yes	No	N/A
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 Source of Water: Power generation
 Water Type: Blowdown Water



Note: The drawing above represents elevations. It does not reflect the design of the lift station.

Peak design inflow (max flow to lift station): 400 g.p.m.
 Pumping Rate: 400 g.p.m. @ 57 ft. TDH

1. Influent sewer elevation: 77.7 ft.
2. Finish grade elevation at wet well: 82 ft.
3. Force main length: 1021 ft.
4. Force main discharge elevation: 114 ft.

Force main diameter: 6 in. inside dia.
 Force main material (PVC, DI, etc.): 6in SCH40 Steel

Force Main is:

New	New	Existing
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Force Main Discharge (manhole, pressure force main, etc.) Unknown

Standby generator:

N/A	Permanent	Portable	N/A
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Power Supply:

480V	480V	240V	208V
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Power Supply: Three-Phase Three-Phase Single-phase

Is the lift station a classified space?

No	Yes	No
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1.04 DESIGN CRITERIA FORM

Romtec Utilities has designed this Scope of Supply and Design Submittal based on the following information provided by:

Date: 9/25/2017
 Project Name: Unit 2 Blowdown Sump
 Information here in provided by: Worley Parsons
 Name: _____
 Email Address: _____
 Telephone: _____

DESIGN CRITERIA

Project Site Address: Orlando, FL
 CAD site plan available at this time?

No	Yes	No	N/A
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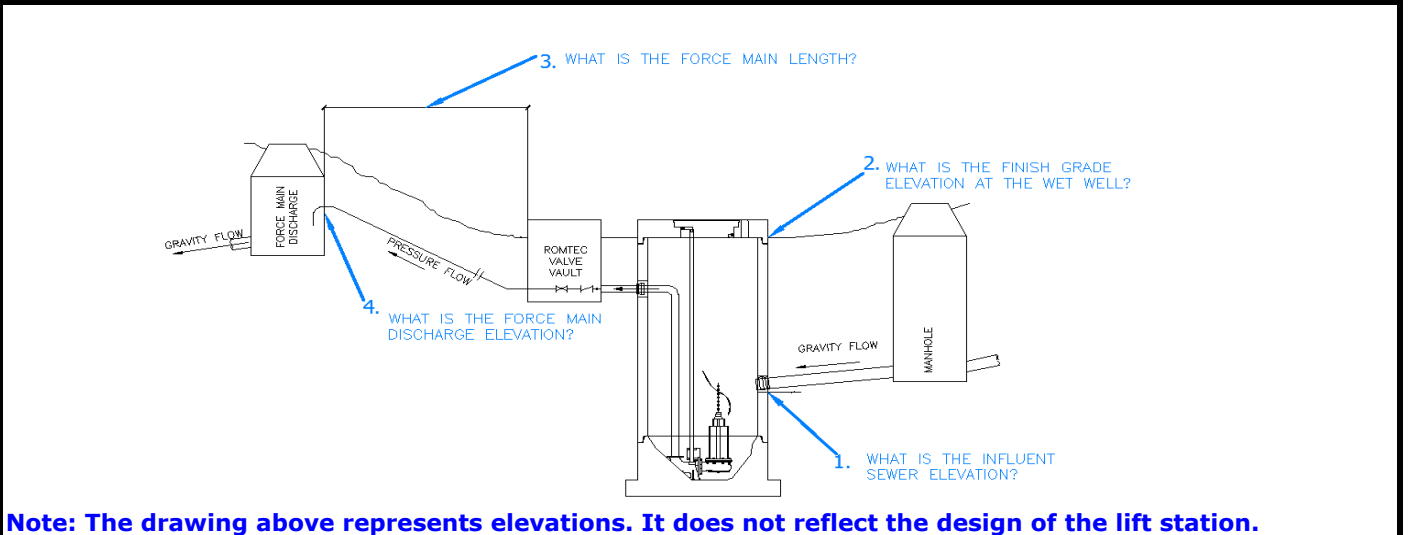
 Final Project Owner and/or Operator: Orlando Utilities Commission
 Governing Sewer or Water Authority: Orlando Utilities Commission
 Does Authority have a lift station standard?

No	Yes	No	N/A
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 Does this project require "Buy America" materials?

No	Yes	No	N/A
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 Source of Water: Power generation
 Water Type: Blowdown Water



Note: The drawing above represents elevations. It does not reflect the design of the lift station.

Peak design inflow (max flow to lift station): 100 g.p.m.
 Pumping Rate: 100 g.p.m. (EQUAL TO DESIGN INFLOW)

1. Influent sewer elevation: 77.6 ft.
2. Finish grade elevation at wet well: 82 ft.
3. Force main length: 650 ft.
4. Force main discharge elevation: 150.5 ft.

Force main diameter: 4 in. inside dia.
 Force main material (PVC, DI, etc.): Carbon Steel SCH40

Force Main is:

<u>New</u>	<u>New</u>	<u>Existing</u>
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Force Main Discharge (manhole, pressure force main, etc.) Unknown

Standby generator:

<u>N/A</u>	<u>Permanent</u>	<u>Portable</u>	<u>N/A</u>
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Generator fuel:

	<u>Diesel</u>	<u>Natural Gas</u>	
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Power Supply:

<u>480V</u>	<u>480V</u>	<u>240V</u>	<u>208V</u>
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Power Supply:

<u>Three-Phase</u>	<u>Three-Phase</u>	<u>Single-phase</u>	
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Is the lift station a classified space?

<u>No</u>	<u>Yes</u>	<u>No</u>
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