LIFT STATION DESIGN FORM

Romtec Utilities, Inc.

info@romtecutilities.com ■ 541-496-9678 ■ Fax: 541-496-0804

To size your lift station, please complete this form and send it to Romtec Utilities.

PART 1 & PART 2: ALL INFORMATION IS NECESSARY. Note: If true elevations are not known, use assumed elevations. Please note this in "Additional Information" at bottom of form.

PART 3: OPTIONAL INFORMATION IS HELPFUL, BUT IS NOT REQUIRED AT THIS TIME. Please provide as much of this information as you can.

WHEN FINISHED: See instructions at bottom of form for faxing or emailing to Romtec Utilities. Please call or email if you have questions. Business hours are Mon. - Fri., 7:30 am - 4:30 pm Pacific.

PART 1: PROJECT CONTACT INFORMATION

Today's Date: 12/18/2007

Company/Agency: HNTB CORPORATION

Company/Agency Type: [Engineer] Engineer | Developer | Gov't. Agency | Other

First Name:

Last Name:

Title:

Email Address:

Address:

City:

State/Province: Zip Code: 98004

Country: USA

Telephone: Phone Ext:

Mobile/Other Phone: Fax:

Project Name: STORM WATER LIFT STATION

Your Client for this project is: [Public Agency] Public Agency | Private Co.

Project Type: [Stormwater] Wastewater | Stormwater | Other

Project City: PORLAND, OR Project Zip:

Project Engineer:

Reviewing Engineer/Agency who reviews/approves station design:

Final Project Owner and/or Operator: PORTLAND INTERNATIONAL AIRPORT

Governing Sewer or Water Authority:

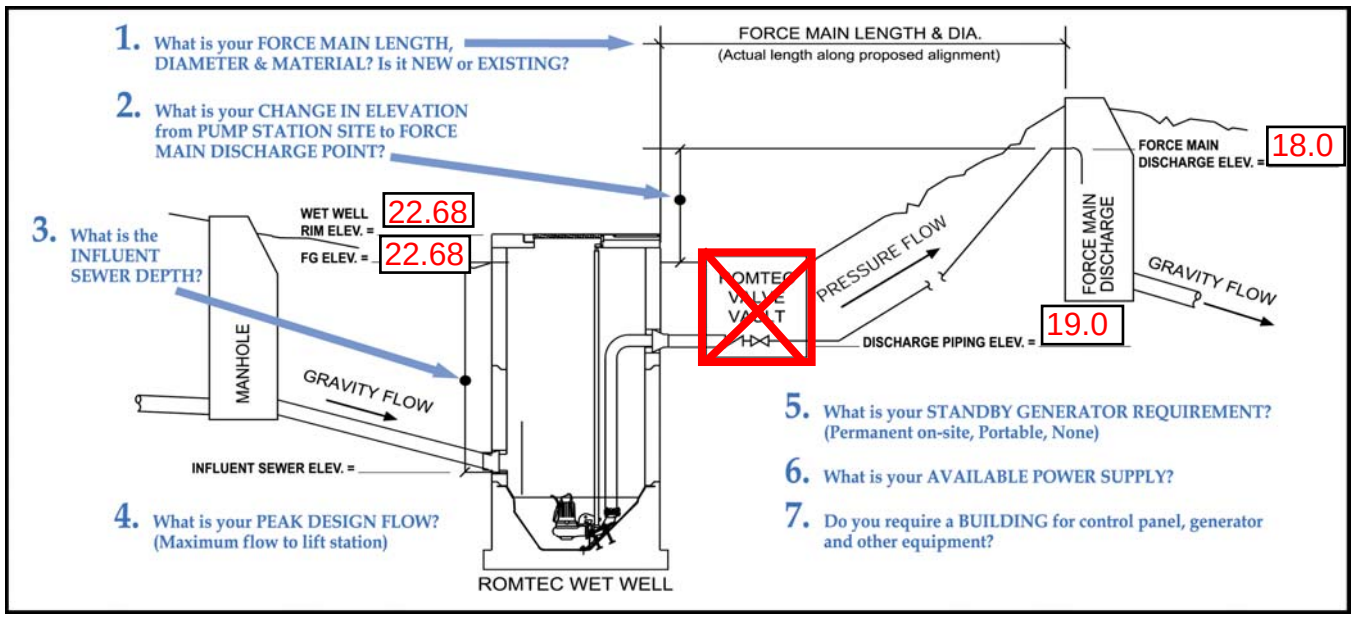
Does Authority have a lift station standard? [SELECT ONE] Yes | No | Not Sure

Who should Romtec contact about the lift station design standard?

What is the Expected Project Bid Date? Project Completion Date:

PART 2: DESIGN DATA

If using assumed elevations, note this in Additional Information.



1. Force main length: 290 ft. (actual length along proposed alignment)

Force main diameter (inside): 14.46 in. inside dia.

Force main material (i.e., PVC C-900 class 150, ductile iron class 52, HDPE DR17 class 100, etc.): DI CL 53

Force Main is: [New] New Existing

2. Elevation change from lift station site to force main discharge point: -4.68 ft.

Finish grade elevation at wet well: 22.68 ft.

Discharge piping elevation at valve vault: ____ ft.

Force main discharge elevation: 18 ft.

3. Influent sewer elevation: 17.63 ft.

4. Peak design flow (maximum flow to lift station): 3400 g.p.m.

5. Standby generator requirement: [None] Permanent Portable None Don't Know

Standby generator fuel: [SELECT ONE] Diesel Natural Gas Propane

6. Available power supply: [480V] 208V 240V 480V

[3-phase] Single-phase 3-phase

Additional loads on site (besides the lift station) to be powered by generator: N/A KVA

7. Electrical controls weather protection: [None] Enclosed Building Shelter Structure None

Weather protection structure is for: [Electrical Controls Only] Electrical Controls Only

Electrical Controls & Generator

Controls, Generator, Chemical Feed

PART 3: OPTIONAL INFORMATION

Please provide as much information as you can.

8. Continuously ascending force main? [No] Don't Know / Yes / No

9. If no, is air vacuum release valve required? [SELECT ONE] Don't Know / Yes / No

10. Elevation at highest point in force main: IE 20.5 ft.

11. Bends in force main alignment (quantity of each, enter 0 if none):

6 22.5°

3 45°

90°

12. Force main discharge point is: [Manhole to gravity sewer] Manhole to gravity sewer / To pressure force main

13. If discharge is to another force main, list that force main pressure at discharge point: N/A min. psi N/A max. psi

14. Lift station inlet pipe type (i.e., PVC C-900 class 150, ductile iron class 52, HDPE DR17 class 100, etc.): DIP CL 52

15. Lift station inlet pipe nominal diameter: 24 in. (60% FL), 12 IN. DIP (40% OF FL

16. Average day flow to station-dry weather: g.p.m

Average day flow to station-wet weather: g.p.m

17. Wet well interior lining/coating (select one): [Spray-on coating]

None / PVC precast lining / Spray-on coating

Specify lining or coating product:

White or light colored catalyzed epoxy paint

see spec 33413 - wet well coating

18. Wet well exterior coating (select one): [Spray-on coating]

None / Spray-on coating

Specify coating product:

Coal Tar epoxy - See spec. 334213 well coatin

19. Valve vault options (check all that apply):

Pumping/pigging port

Ladder

Floor drain to wet well

Sump pump to (specify discharge point)

20. Metering vault options (check all that apply):

X CHECK HERE if flow metering NOT REQUIRED

Pumping/pigging port

Ladder

Floor drain to wet well

Sump pump to (specify discharge point)

21. Does the Governing Authority have a lift station controls design standard? [SELECT ONE] Don't Know / Yes / No

If yes, provide details on controls standard:

See item 6 on attached comments form L Olson 1/3/08

22. Do you or the Governing Authority have a standard for liquid level sensors? Yes | Don't Know | Yes | No

If yes, provide details on level sensors: Float level sensor - See specs 333213-D level control

23. Project traffic load: Occasional Traffic**

Pedestrian Load* — * not in parking lot or roadway

Occasional Traffic** — ** located in parking lot (H20 load)

Traffic Load*** — ***located in street or roadway

24. Additional Information - Please provide any other information about the project: See attached comments by L. Olson 1/3/2008.

25. Is site plan drawing available at this time? Yes | Don't Know | Yes | No

26. Is force main plan/profile drawing available at this time? Yes | Don't Know | Yes | No

27. If site plan and/or force main plan/profile drawings are available, please email these files in AutoCAD DWG (prefered) or PDF to info@romtecutilies.com. **Please include Project Name in Subject Line of email.**

THANK YOU FOR PROVIDING THIS INFORMATION.

IF COMPLETING FORM FROM EXCEL FILE:

If you are filling the form as an Excel file on your computer, please save the Excel file with the Project name in the Excel file name.

IF FAXING FORM:

Please fax the entire 4-page form to Romtec Utilities at 541-496-0804. Keep the form for your records.

IF EMAILING FORM:

Please attach the completed Excel file to an email and send to romtec3@romtec.com. **Please include Project Name in Subject Line of email.**

Romtec Utilities will work with you to specify the lift station to meet your project needs. Within one business day, you will receive a confirmation email indicating that the form has been received and is being reviewed by the Romtec Utilities staff. You can expect to receive a telephone call, shortly following receipt of this email, to confirm the information you have provided and discuss the project.

Additional information and questions can be directed to 541-496-9678 or info@romtecutilities.com. **Please include Project Name in Subject Line of email correspondence.**