

5.02 LIFT STATION DESIGN CRITERIA FORM

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

PART 1: PROJECT CONTACT INFORMATION

Design Criteria

Date:

6/4/2015

Information here in provided by:

Quad Knopf

Company/Agency Type:

☒ Engineer

☐ Engineer

☐ Developer

☐ Gov't.
Agency

☐ Other

First Name:

Matthew

Last Name:

Barnes

Title:

Senior Associate Engineer

Email Address:

metthewb@quadknopf.com

Address:

5080 California Avenue, Suite 220

City:

Bakersfield

State/Province:

California

Zip Code:

93309

Country:

USA

Telephone:

661-616-2600

Phone Ext:

4108

Mobile/Other Phone:

661-444-6689

Fax:

661-616-5970

Project Name:

Gossamer Grove

Your Client for this project is:

☒ Private Co.

☐ Public Agency

☐ Private Co.

Project Site Address (must include if there is a generator):

Shafter, CA

Project Zip:

Is site plan drawing available at this time?

☒ No

☐ Yes

☐ No

☐ N/A

Project Engineer:

Matthew Barnes

Reviewing Entity who reviews/approves this Scope of Supply & Design Submittal:

City of Shafter

Final Project Owner and/or Operator:

City of Shafter

Governing Sewer or Water Authority:

City of Shafter

Does Authority have a lift station standard?

☒ Yes

☐ Yes

☐ No

☐ N/A

Who should Romtec contact about the lift station design standard?

City of Shafter

Does this project require "Buy America" materials?

☒ No

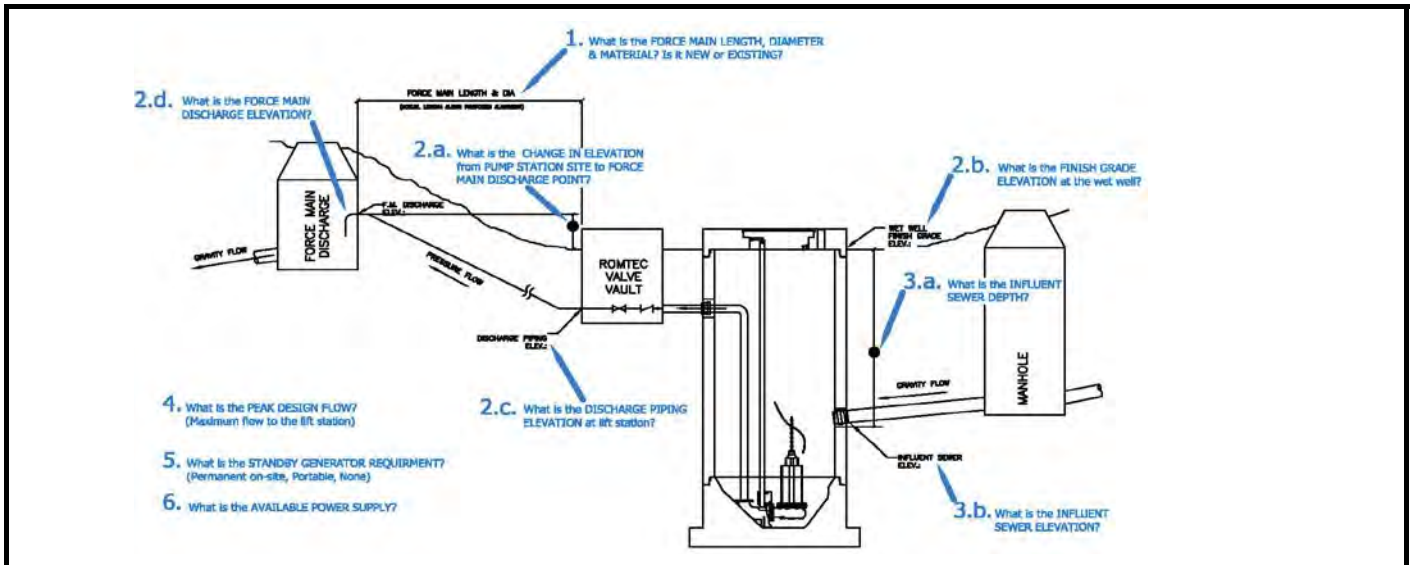
☐ Yes

☐ No

☐ N/A

5.02 LIFT STATION DESIGN CRITERIA FORM

PART 2: DESIGN DATA



1. Force main length:

475 ft. (Temporary Force Main: 0-1200 gpm)
1500 ft. (Permanent Force Main: 1200-2200 gpm)
10 in. inside dia. (Temporary Force Main)
12 in. inside dia. (Temporary Force Main)

Force main diameter (inside):

Force main material (PVC, DI, etc.):

C900 CL150 PVC

Force Main is:

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

Source of Water:

Water Type:

New	New	Existing
Manhole for both the temporary and permanent force mains		
Housing Development		
Wastewater		

Elevation change from lift station site to force

2.a main discharge point:

-5.75 ft. (Temporary Force Main)
-6.75 ft. (Permanent Force Main)

2.b Finish grade elevation at wet well:

391.75 ft.

Discharge piping centerline elevation at lift

2.c station:

387 ft.

2.d Force main discharge elevation:

386 ft. (Temporary Force Main)
385 ft. (Permanent Force Main)

3.a Influent sewer depth:

16.39 ft.

3.b Influent sewer elevation:

375.36 ft.

Peak design inflow

4. (maximum flow to lift station):

1200 g.p.m. (Temporary Force Main)
2158 g.p.m. (Permanent Force Main)

652 g.p.m. phase 1
1018 g.p.m. phase 2
1420 g.p.m. phase 3
2158 g.p.m. full build out

5. Pumping Rate:

6. Standby generator requirement:

Standby generator fuel:

7. Available power supply:

Permanent	Permanent	Portable	None	Don't Know
Diesel	Diesel	Natural Gas	Propane	
480V	208V	240V	480V	
3-phase	Single-phase	3-phase		
Yes	Yes	No		

Is this lift station considered a classified space?