

This License to construct and operate an on-site sewerage facility requires that this Department **INSPECT AND APPROVE** the construction of the said facility **PRIOR TO COVER UP** and **PRIOR TO PLACING INTO OPERATION**. Failure to comply with these requirements constitutes a Class "C" Misdemeanor.
CALL 713-274-3800 TO SCHEDULE INSPECTION.

HARRIS COUNTY ENGINEERING DEPARTMENT
INTERPOSES NO OBJECTIONS PROVIDED THE
SYSTEM IS INSTALLED IN ACCORDANCE WITH
THESE PLANS. SYSTEM DESIGNER, INSTALLER AND
PROPERTY OWNER ARE RESPONSIBLE FOR PROPER
SYSTEM OPERATION.

Randy Gandy 11/13/2019
OS 27056

SIGNATURE DATE
(Signature valid for 1 year)

- Legend:**
- 2-Way Cleanout Tee
ProFlo PF500SLPT or Equiv.
 - 500 Gallon Pretreatment
 - 500 Gallon ATU
 - 750 Gallon Pump Tank
 - Test Bore
 - Liquid Chlorinator or Tablet.
 - 1/2 HP Effluent Pump
 - KRain ProPlus sprayheads

- Notes:**
- Absorptive area to be sodded or seed by owner
 - Minimum required application area is 5,853.66 s.f.
 - Actual application area designed is 6,434 s.f.

Proposed Spray Heads:
R32 3,217 s.f.
E32 3,217 s.f.
Total 6,434 s.f.

System Summary

| Building/ Residence (sf) | # of Bedrooms | Usage Rate Q (Gal/Day) | Surface Application Rate (Ri) | Surface Application Area | |
|-----------------------------|------------------|---------------------------|-------------------------------------|-----------------------------|--------|
| | | | | Req'd | Actual |
| 2200 | 3 | 240 | 0.041 | 5854 | 6434 |

Design Specifications

| Pretreatment Tank (Gal) | Aerobic Treatment Unit (Gal) | Pump Tank (Gal) | | Brand |
|----------------------------|------------------------------------|-----------------|--------|--------|
| | | Required | Actual | |
| 500 | 500 | 603 | 796 | ProFlo |

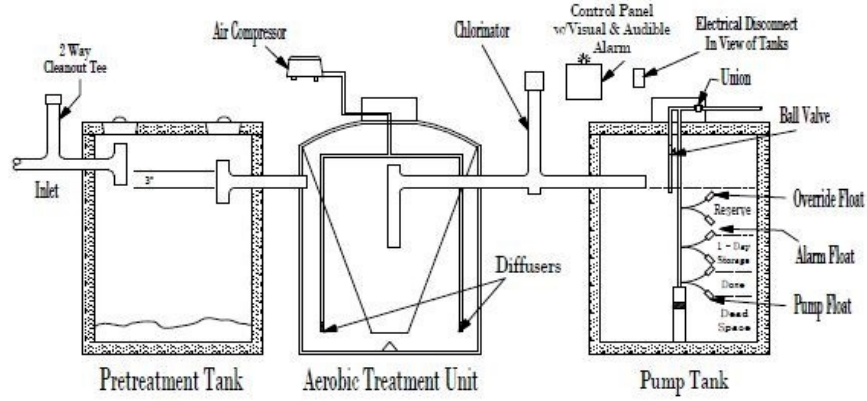
Pump Tank Design

| Height | | Length | | Width | | Volume | | |
|--------|------|--------|------|--------|------|-----------------|--------|----------|
| Inches | Ft | Inches | Ft | Inches | Ft | Ft ³ | Gal | Gal/Inch |
| 55 | 4.58 | 55 | 4.58 | 58 | 4.83 | 101.32 | 757.87 | 14.473 |

| Dead Space (Gal) | Dose (Gal) | Reserve (Gal) | | Actual Reserve (inches) |
|---------------------|------------|---------------|--------|-------------------------------|
| | | Required | Actual | |
| 203 | 80 | 80 | 274.99 | 19 |

Float Specifications

| Pump Float | | Alarm Float | | Override Float | |
|------------|----|-------------|----|----------------|----|
| Off | On | Off | On | Off | On |
| 14 | 20 | 20 | 36 | 36 | 42 |

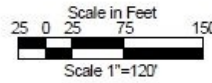


System Notes

- One (1) dedicated 110V-30Amp breaker required for pump, air compressor and control panel
- All electrical and controls/motors must be placed a minimum 18" above base flood plain
- See manufacturers specifications for max allowable soil cover for all tanks
- System requires commercial 24 hour time clock set to spray between 12:00 midnight and 5:00 A.M.

General Notes

- On-site septic permit must be obtained from Harris County prior to installation.
- Installation must be by a registered/licensed installer of on-site sewerage facilities as required by Article 4477-7E of Vernon's Civil Statute. No component of this system shall be covered up without Harris County's written approval.
- If any discrepancies exist between this design and actual field conditions it is the installers responsibility to immediately notify the designer and Harris County prior to start of any work
- All construction methods and materials must be in accordance with county and state rules and policies unless specifically noted on this drawing and approved by Harris County.
- Site shall be graded after completion of system installation to provide adequate storm water runoff. Drainage swales shall be constructed to route storm water away from absorption area.
- Absorption area should have adequate vegetation before system installed can be used.
- A water softener may be connected to an OSSF with a non-standard or proprietary treatment system only if the drain line bypasses the treatment system and connects directly to the pump tank.
- Excessive use of water, over the design flow or organic overloading in excess of design parameters will cause the system not to perform to its fullest capabilities.
- This system requires the installer to provide an initial 2-year maintenance contract per Texas Administration Code Chapter 285.7.(C).



11/13/2019
New Gandy
77357
no 2

PROFESSIONAL SANITARIAN
LICENSE 4603
sydnorconstruction@atcc.com

The Septic Guy

PO BOX 897
Managers, TX 77318
281-336-0253

SCALE: 1"=120' DATE: October 7, 2019 DRAWN BY: BCS FILE: jpd@septicguydesign.com

OWNER: jpd@septicguydesign.com COUNTY: Harris ADDRESS: 10000 W. Loop West, Houston, TX 77057