

DRAINFIELD TO BE CLEARED OF ALL TREES AND BRUSH. ENTIRE AREA TO BE SODDED/SEED AFTER INSTALLATION.

LEGEND:

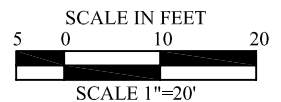
- PROFLO PF500SLPT OR EQUIVALENT
- 1. 2-WAY CLEANOUT
- 2. 500 GAL PRETREATMENT
- 3. 500 GAL ATU
- 4. 750 GAL PUMP
- 5. GEOFLO HEADWORKS BOX OR EQUIVALENT
- ⊕ TEST BORE
- ⊙ WATER METER
- ⊖ VACUUM BREAKER
- ½ HP EFFLUENT PUMP
- GEOFLOW WFPC16-4-24 WASTEFLOW 24" 1.02 GPH

NOTES:

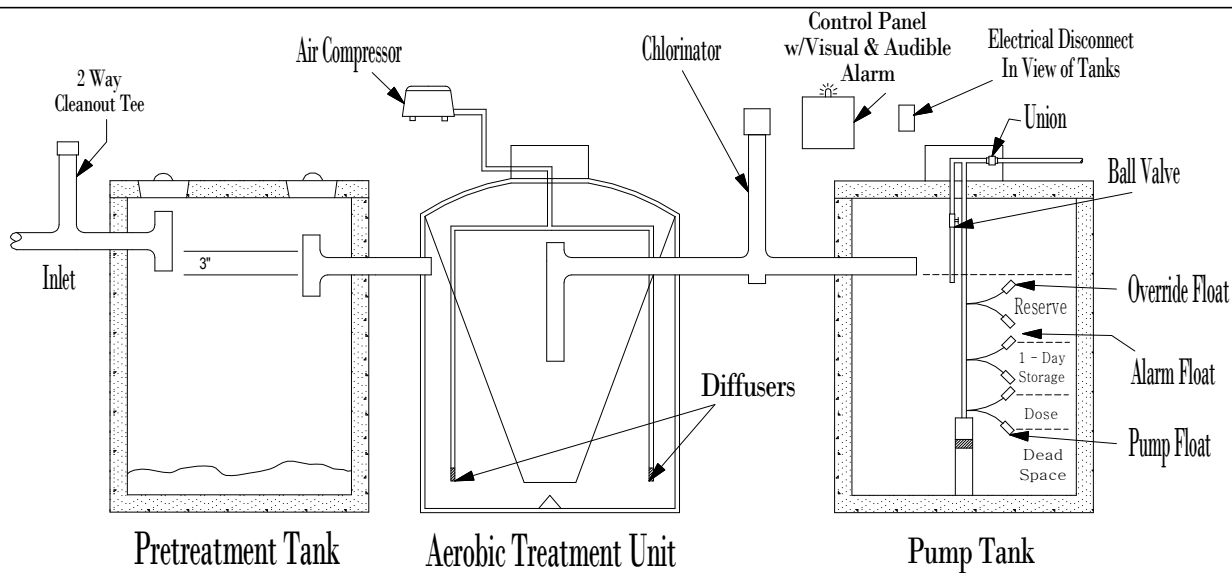
1. ABSORPTIVE AREA TO BE SODDED OR SEED BY OWNER
2. MINIMUM ABSORPTIVE AREA REQ'D 1200 SQ. FT. (600 LF OF DRIPLINE)
3. ACTUAL ABSORPTIVE AREA DESIGNED 1280 SQ. FT. (640 LF OF DRIPLINE)
4. THIS PROPERTY LIES OUTSIDE THE 100YR FLOODPLAIN PER FEMA FIRM PANEL 48339C0375G
5. DRAINFIELD TO BE CROWNED TO PROMOTE DRAINAGE AROUND THE DISPOSAL FIELD.

CALCULATIONS:

Q=300 WITHOUT ULF
 Ra=0.25
 $Q/Ra=300/0.25=1200$ SQ. FT.
 SEE TABLE FOR ALL CALCULATIONS



Professional Sanitarian License 4603 sydcoconstruction@yahoo.com		The Septic Guy Sydco Construction LLC		PO Box 997 Montgomery, TX 77356 (281)330-5203	
SCALE: SCALE 1"=20'	DATE: AUGUST 29, 2021	DRAWN BY: BCS	FILE: 614 Pine Bough.dwg		
OWNER: OSCAR GUERRERO	COUNTY: MONTGOMERY	ADDRESS: 614 PINE BOUGH DRIVE MONTGOMERY, TX 77356 LOT 8, BLOCK 4-B OUT OF LAKE CONROE FOREST			



System Notes

1. One (1) dedicated 110V-30Amp breaker required for pump, air compressor and control panel
2. All electrical and controls/motors must be placed a minimum 18" above base flood plain
3. See manufacturers specifications for max allowable soil cover for all tanks

General Notes

1. On-site septic permit must be obtained from Montgomery County prior to installation.
2. Installation must be by a registered/licensed installer of on-site sewage facilities as required by Article 4477-7E of Vernons Civil Statute. No component of this system shall be covered up without Montgomery County's written approval.
3. If any discrepancies exist between this design and actual field conditions it is the installers responsibility to immediately notify the designer and Montgomery County prior to start of any work.
4. 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 Montgomery County.
5. 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.
6. Absorption area should have adequate vegetation before system installed can be used.
7. 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.
8. 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.
9. This system requires the installer to provide an initial 2-year maintenance contract per Texas Administration Code Chapter 285.7.(C).



SYSTEM SUMMARY

BUILDING RESIDENCE (SF)	# OF BEDROOMS	PRETREATMENT TANK (GAL)	AEROBIC TANK	PUMP TANK	
				REQ'D	ACTUAL
1496	3	500	500	642	796

TOTAL LENGTH OF EACH LINE (FT)	TOTAL # OF LINES	TOTAL ABSORPTIVE AREA DESIGNED (SF)	TOTAL LENGTH DESIGNED (SF)	TOTAL # OF EMITTERS IN DESIGN
80	8	1280	640	320

CALCULATIONS

AVERAGE DAILY FLOW (Q)	SOIL CLASS TYPE	APPLICATION RATE (Ra)	ABSORPTIVE AREA (SF)	EMITTER LINE SPACING	SPACE BETWEEN EMITTERS
300	II	0.25	1200	2	2

EMITTER LINE REQ'D (FT)	TOTAL # OF EMITTERS	EMITTER FLOW RATE @20 PSI (GAL/HR)	TOTAL EMITTER FLOW RATE		TOTAL PUMPING TIME (MINS)	
			GAL/HR	GAL/MIN	REQ'D	DESIGN
600	300	1.02	306	5.1	58.83	60

TOTAL # OF ZONES	# OF DOSES PER DAY	GALLONS PER DOSE	PUMP TIME PER DOSE (MINS)	TIMER ON (MINS)	TIMER OFF (HRS)
1	12	25	4.9	5	2

PUMP TANK HEIGHT (INCHES)	PUMP TANK WIDTH (INCHES)	GALLONS PER INCH	DEAD SPACE (GAL)	DOSE (GALLONS)	RESERVE (GAL)	
					REQ'D	ACTUAL
58	55	13.724	192.136	50	100	247

PUMP FLOAT		ALARM FLOAT		OVERRIDE FLOAT	
OFF	ON	OFF	ON	OFF	ON
14	18	18	40	40	46

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WASTEFLOW PC 1 gph

Standard Products:

WFPC16-4-24 WASTEFLOW PC 24"/1.02 gph or 4lph

WFPC16-4-18 WASTEFLOW PC 18"/1.02 gph or 4lph

WFPC16-4-12 WASTEFLOW PC 12"/1.02 gph or 4lph

Alternative spacing, flow rates and diameters available upon request.

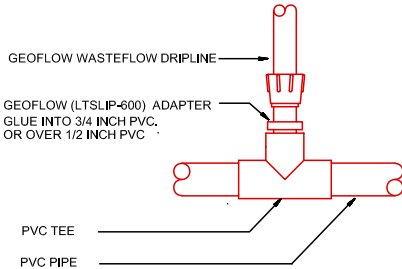
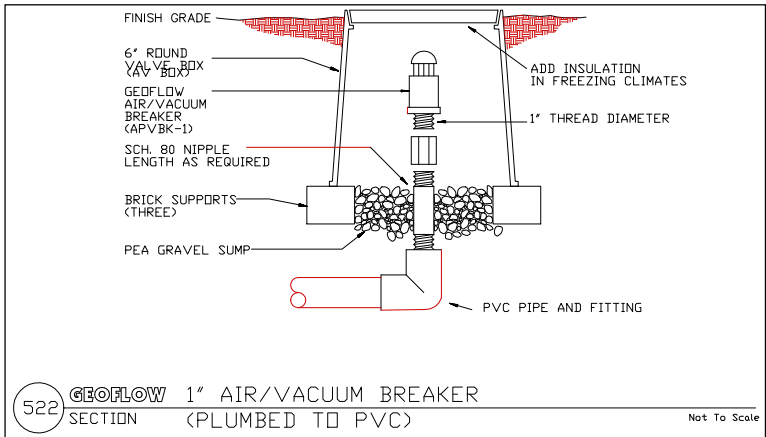
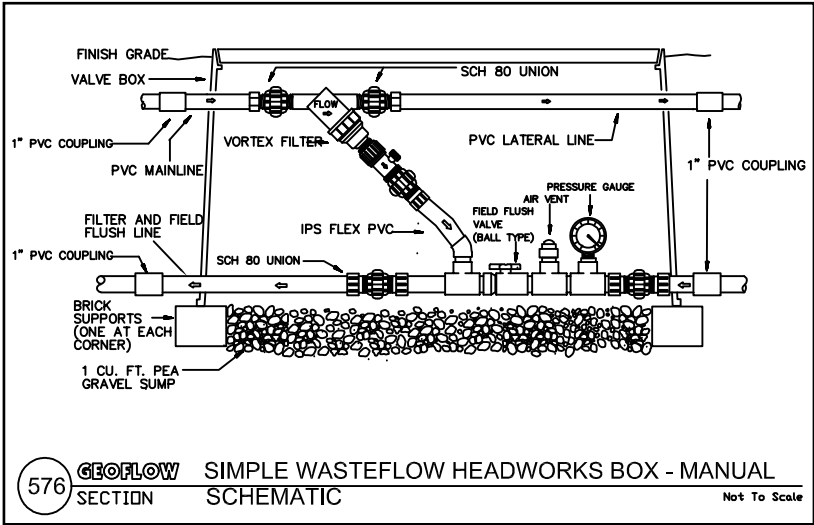
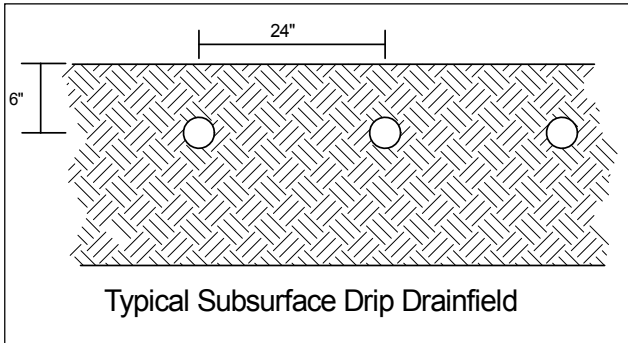
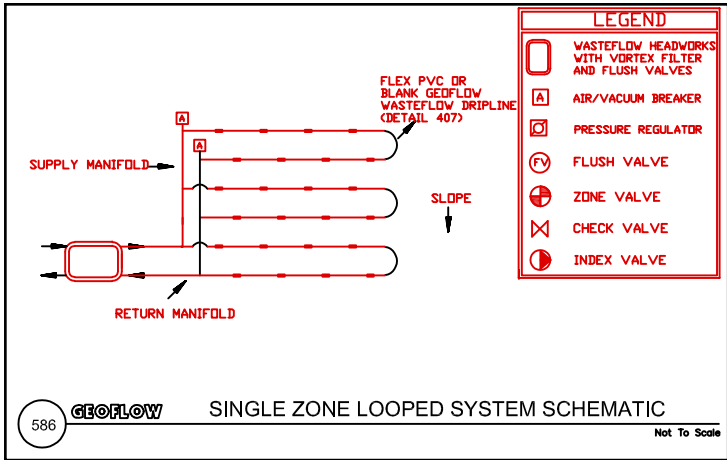
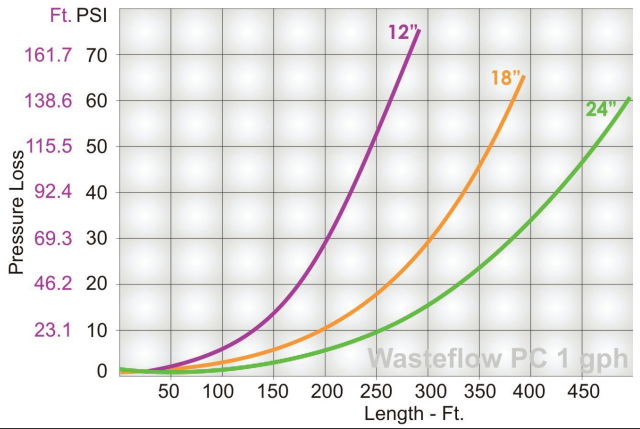
Maximum Length of Run vs. Pressure

Allows a minimum of 10 psi in the line.

Recommended operating pressure 10-45 psi.

Pressure psi	Pressure ft.	Emitter Spacing		
		12"	18"	24"
10 psi	23.10 ft.	95'	140'	175'
15 psi	34.65 ft.	115'	172'	211'
20 psi	46.20 ft.	146'	210'	265'
25 psi	57.75 ft.	171'	242'	315'
30 psi	69.30 ft.	180'	266'	335'
35 psi	80.85 ft.	199'	287'	379'
40 psi	92.40 ft.	211'	305'	385'
45 psi	103.95 ft.	222'	321'	429'
50 psi	115.5 ft.	232'	334'	431'
55 psi	127.05 ft.	240'	347'	449'
60 psi	138.6 ft.	249'	360'	465'

Pressure Loss vs. Length of Run



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