#8094

Transmittal

Tacoma-Pierce County Health Department
Healthy People in Healthy Communities

VALIDATION

Attention MAIRISA KING-JALIK

Date 1-25-21

Site address 15800 - 62nd Ave NW

City GIG HARBOR State WA Zip 98335

Record ID/Facility/Project

Designer/Owner SANDY / SMC - SMITH

Submitted by EMAIL

Received
01/26/2021

Email address

- ☐ New site plans (submitted before site review).
- ☐ Change of site address.
- ☐ Resubmittal.
- ☐ Food reinspection.
- ☑ Other (indicate type of submittal below).

Comments RESPONSE TO RRF

NOTE: Use appropriate forms for:

- New Designers
- Renewals
- Redesigns
- Remodels
- Repairs
- Waivers
- Second Opinions
- Copy of Review Report Form
- Copy of Red Tag Form
- Record Drawings
- Water Availability Letters
- Short Plats
- Formal Plats
- Food Permits
- Environmental Impact Statements

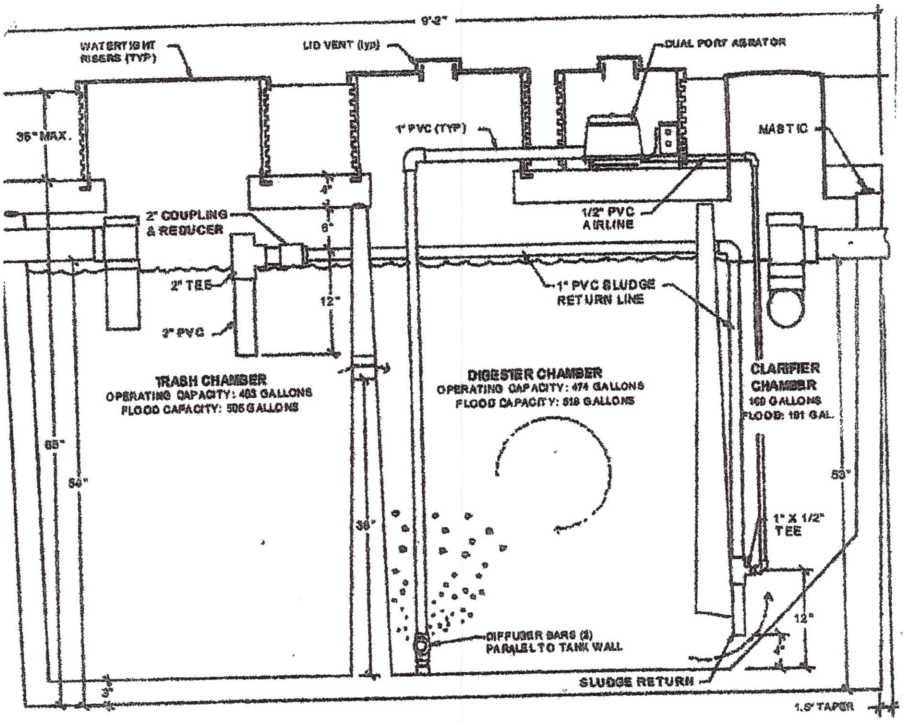
HEALTH DEPARTMENT USE ONLY

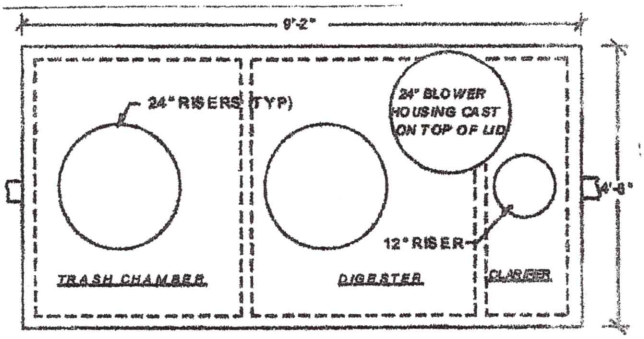
Geo Search _____ ON Number _____ Compliance Records _____

TANK INSTALLATION DETAIL
NUWATER NR
500 GPD TREATMENT UNIT

INSTALLATION INSTRUCTIONS

1) Excavate tank hole with vertical walls to 1 foot larger than tank on all sides.
2) If bottom of hole is stony, install 3" of compact sand & level out with screed.
3) Install tank in center of hole, keeping 1 ft. void space on all sides.
4) As tank is filling with water, fill void space with granular (sandy) soil free of large clumps.
5) Install rest of system, & affix risers to adapters with waterproof adhesive.
6) Perform watertightness test in field as required by local jurisdiction.
7) Upon approval to backfill, carefully backfill with native soils over top of tank.
8) Final grade the surface to avoid channeling surface water toward tank.





TOP VIEW

ON-SITE WASTEWATER TREATMENT SYSTEMS
STATE OF WASHINGTON
21244
SANDRA R. SMITH
LICENSED DESIGNER
EXPIRES 11-27-2022

Sandra R. Smith

CLIENT: JIM SHERIDAN (206) 790-0667
1310 6TH, STE 102 572-2403
TACOMA, WA 98405

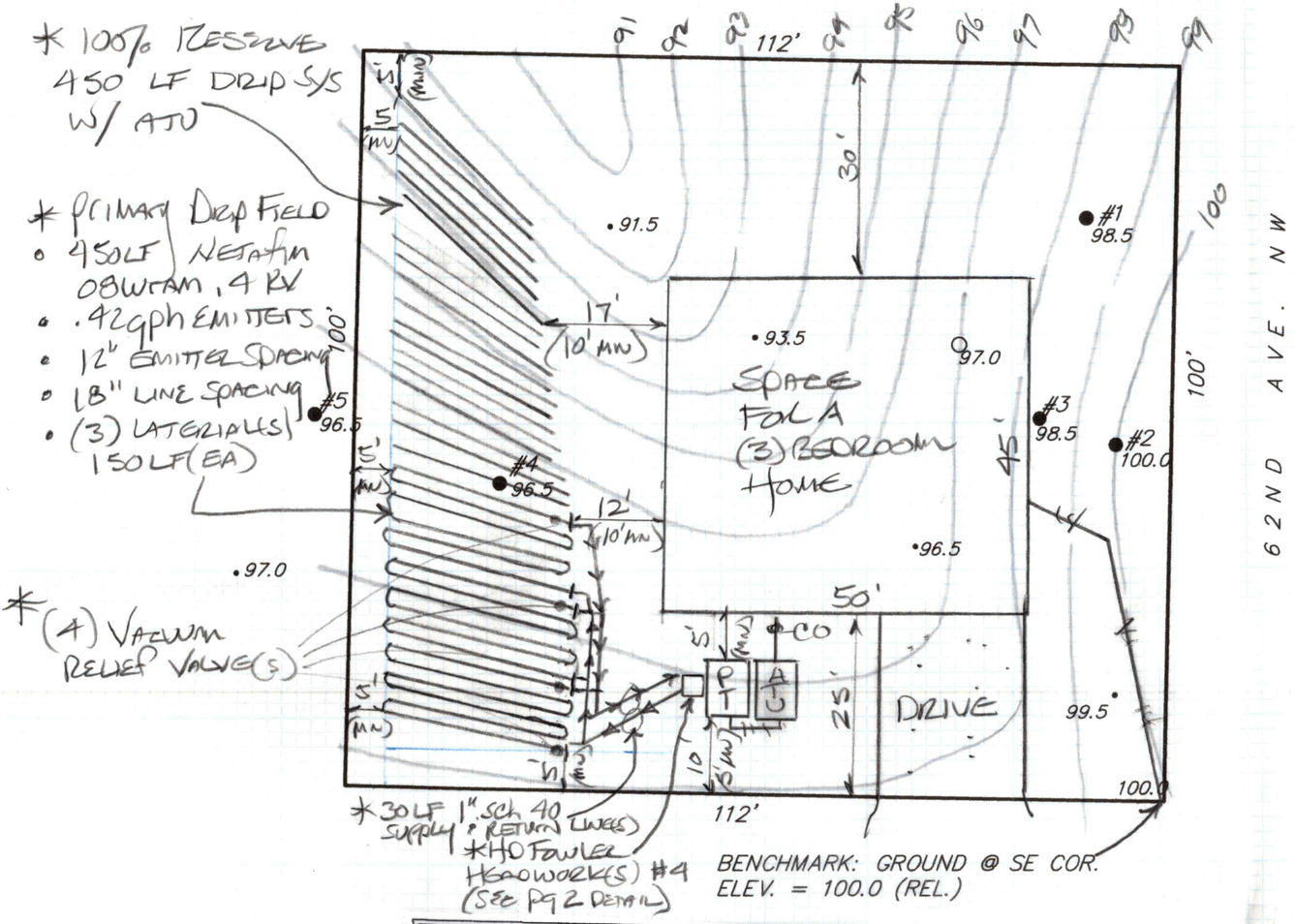
SITE ADDRESS: 15800 62ND AVE, NW **DATE:** 9-6-19

PARCEL NO.: 01-22-13-2-077 **REV. DATE:** 1-25-21

PENINSULA SEPTIC DESIGNS
SANDRA R. SMITH
P.O. BOX 1444, GIG HARBOR WA 98335 PH#(253) 851-2178

8094

PRETREATMENT DESIGN



PLAN
1"=20'

0 10 20 40 60

SOIL PROFILE: *8-27-2019*

TH#1
0" - 4" BL. SANDY GRAV. LOAM
4" - 25" BR. SANDY GRAV. LOAM
25"- 35" TILL (COMP.)
MOTT. @ 25"

TH#2
0" - 32" BR. LOAMY GRAV. SAND
32"- 46" FINE GR. GRAV. SAND (SL.COMP.)
MOTT. @ 32"

TH#3
0" - 9" BL. SANDY LOAM
9" - 26" BR. LOAMY GRAV. SAND
26"- 36" FINE SAND (MOTT.)
MOTT. @ 26"

TH#4
0" - 4" BL. LOAMY GRAV. SAND
4" - 34" BR. LOAMY GRAV. SAND
34"- 48" TILL (COMP.)
MOTT. @ 34"

TH#5
0" - 47" BR. LOAMY GRAV. SAND
47"- 51" TILL (COMP.)
MOTT. @ 47"

INVERT ELEVATIONS

FIN. FL.	= 97.10
STUB OUT	= 96.5
SEPTIC IN	= 95.5
* (ATU) OUT	= 95.25
PUMP IN	= 95.0
UPPER LINE	= 97.0

ALL TANKS MUST HAVE RISERS TO FINISH GRADE

NOTE: FOOTING DRAINS INSTALLED MUST BE USED IN CONJUNCTION WITH INFILTRATION TRENCHES AND MUST MAINTAIN A 10FT. (MIN.) SETBACK FROM ALL DRAINFIELD COMPONENTS.
NOTE: ROOF TOP DRAINS INSTALLED, MUST EITHER DAYLIGHT INTO THE STREET OR MUST BE USED IN CONJUNCTION WITH AN INFILTRATION TRENCH, MAINTAINING 10FT. (MIN.) SETBACKS FROM ALL DRAINFIELD COMPONENTS.

NOTE TO HOMEOWNER, BUILDER, OR DEVELOPER:
* CLEARING IN THE DRAINFIELD AREA TO BE DONE UNDER THE SUPERVISION OF THE INSTALLER.
* MINIMUM HOME SETBACKS TO BE VERIFIED BY THE BUILDING DEPARTMENT. WE ASSUME NO LIABILITY IF GREATER SETBACKS ARE REQUIRED

THIS DESIGN IS NOT A SURVEY:
ALL PROPERTY LINES AND DIMENSIONS, AS SHOWN ARE FROM INFORMATION SUPPLIED BY THE CLIENT OR COUNTY OFFICE. WE ASSUME NO LIABILITY FOR VARIATIONS ASCERTAINED BY ACTUAL OR MORE RECENT SURVEYS.

***WATER SERVICE**- KEEP 10' (MIN.) FROM ALL DRAINFIELD TRENCHES AND SEPTIC TANKS AND PIPES OR ENCASE WITH SCH 40 PIPE. ALSO PROVIDE CRUSH PROOF SLEEVE UNDER DRIVING SURFCES.
* ——W——W——W——W—

- DRIP SYSTEM SPECIFICATIONS:

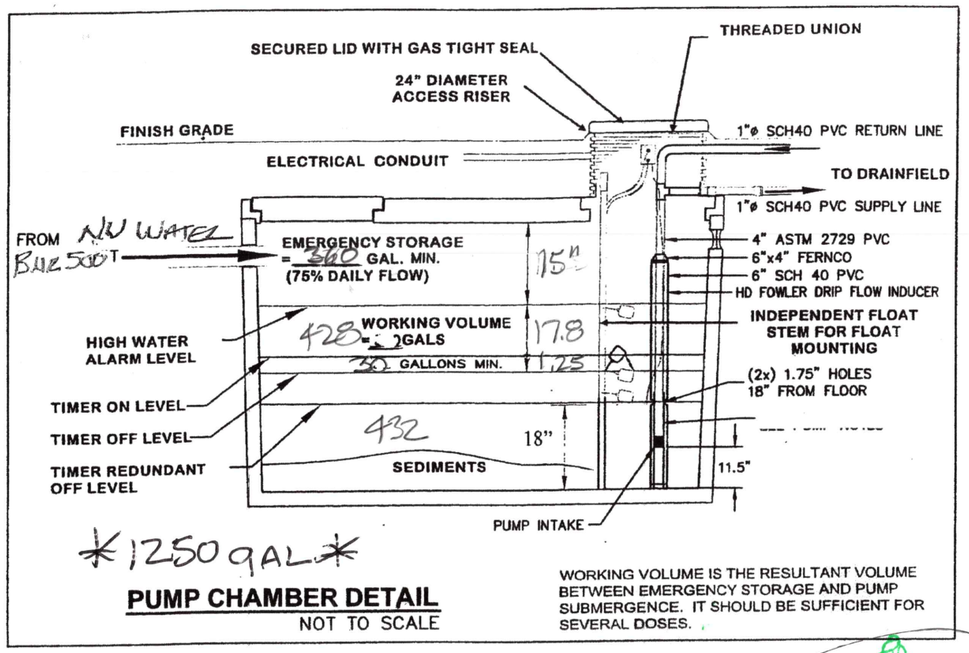
NETAFIM	LINE TYPE
1/2" 08WTAM, 4-RV	LINE SIZE
2'	LINE SPACING
.42	EMITTER SIZE
P20 ORENCO	PUMP MAKE/MODEL
	T.D.H.
	GPM
1" TECH	FILTER
NU-WATER (ORENCO)	TIMER MAKE/MODEL

Received
01/26/2021
Tacoma-Pierce County Health Department

I BRADFORD R. SMITH ... LICENSED ON-SITE SEWAGE SYSTEM DESIGNER ... STATE OF WASHINGTON ... 610223
Expires: 11-28-22

CLIENT: JIM SHERIDAN (206) 790-0667
1310 6TH AVE. STE102 572-2403
TACOMA, WA 98405
SITE ADDRESS: 15800 62ND AVE. NW **DATE:** 9-6-19
PARCEL NO.: 01-22-13-2-077 **REV. DATE:** 1-25-21

PENINSULA SEPTIC DESIGNS
SANDRA R. SMITH
P.O. BOX 1444, GIG HARBOR WA 98335 PH#(253) 851-2178



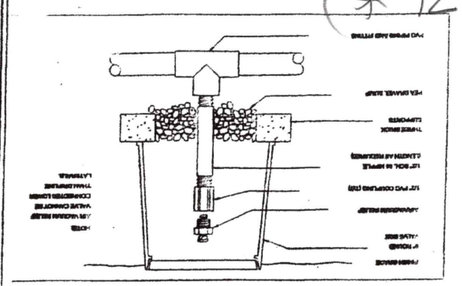
1250 GAL

PUMP CHAMBER DETAIL
NOT TO SCALE

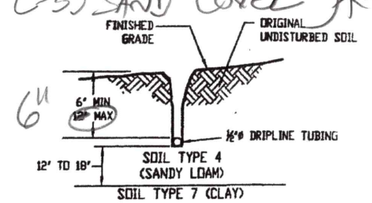
WORKING VOLUME IS THE RESULTANT VOLUME BETWEEN EMERGENCY STORAGE AND PUMP SUBMERGENCE. IT SHOULD BE SUFFICIENT FOR SEVERAL DOSES.

TIMED DOSING

TIMER SPECIFICATIONS: INTENT TO PROVIDE 30 GAL./DOSE @ 2 HR. INTERVALS.
TIMER MUST BE ADJUSTED TO PROVIDE A 30 GAL. DOSE BASED ON ACTUAL DRAW DOWN TEST (See example below).
EXAMPLE DRAWDOWN: 3" per. MIN. = 58.2 GPM (based @ 19.4 gal/inch).
120 GAL. DOSE / 58.2 GPM = 2.06 MIN. TIME SETTING.



(* 12" C-33 SAND COVER)*



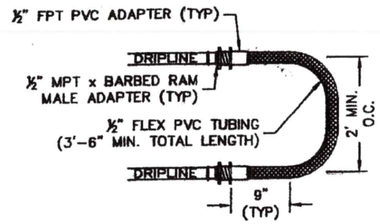
DRIPLINE TRENCH DETAIL
NOT TO SCALE

BURIED UTILITIES IN AREA
CALL BEFORE YOU DIG
1-800-424-5555

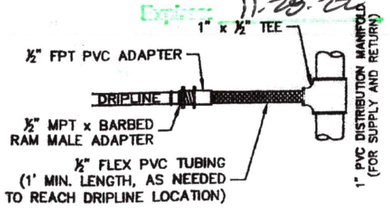
Received
01/26/2021
Kitsap Public Health District

NOTES:
1. ASCERTAIN LOCATION OF UNDERGROUND UTILITIES BEFORE DIGGING.
2. THIS DESIGN IS BASED UPON BR. 5F HOME DAILY USAGE: 120 GAL/BR/DAY. APPLICATION RATE: .60 GAL/SF/DAY.
3. INSTALL 450 LF (MIN.) ½ DIA. NETAFIM 08 WRAM-4 12V
*12" EMITTER SPACING
4. DRAINFIELD TRENCHES MAY BE MOVED AS NEEDED TO ACCOMMODATE EXISTING SLOPE, MAINTAIN 4FT (MIN.) ON CENTER SPACING.
5. DRAINFIELD TRENCHES TO BE LEVEL FOLLOWING CONTOURS.
6. PROVIDE 1125 GAL. (2) COMPARTMENT SEPTIC TANK WITH RISERS TO FINISH GRADE. (ALL TANKS MUST HAVE RISERS TO FINISH GRADE)
7. ALL SURFACE WATER RUNOFF FROM DRIVEWAYS AND ROOF DRAINS SHALL BE DIRECTED AWAY FROM DRAINFIELD.
8. IF POOR SOILS ARE ENCOUNTERED DURING CONSTRUCTION, NOTIFY DESIGNER BEFORE CONTINUING.
9. MINIMAL GRADING WILL BE DONE IN DRAINFIELD AREA TO PROTECT PERCOLABLE SOIL.
10. NO HEAVY EQUIPMENT OR VEHICULAR TRAFFIC SHALL BE ALLOWED OVER THE DRAINFIELD AREA ONCE CONSTRUCTED.
11. NOT DESIGNED FOR A GARBAGE DISPOSAL.
12. THIS DESIGN BASED UPON THE FOLLOWING CRITERIA: TOTAL HEAD:_____FT.; FLOW:_____GPM. PROVIDE_____ OR EQUIVALENT.
13. CONTACT DESIGNER BEFORE CREATING ANY VERTICAL CUT(S) WITHIN 50FT. OF DRAINFIELD.

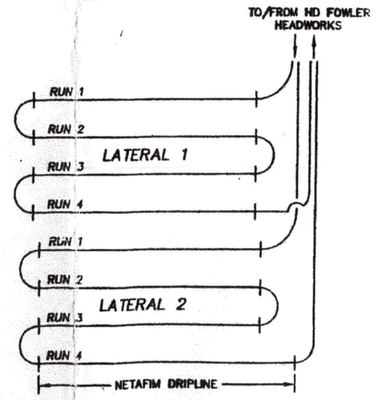
* DOSE VOLUME: _____ GAL. FOR 12 DOSES/DAY.
* DO NOT INSTALL TANKS IN RESERVE AREA.
* TANK(S) MUST BE WATERTIGHT TO A LEVEL ABOVE ANY POSSIBLE SEASONAL GROUND WATER. (LEAK TEST MAY BE REQ'D.)
* MUST HAVE A TIMER COUNTER PANEL - ORENCO S1-1R-PT-RO ETM/CT



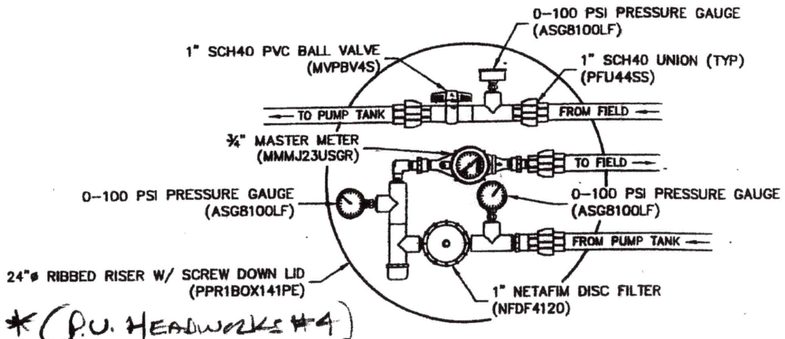
LOOP CONNECTION DETAIL
NOT TO SCALE



LATERAL CONNECTION DETAIL
NOT TO SCALE

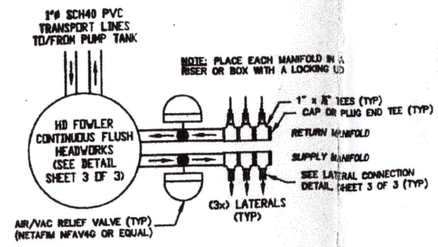


TYPICAL DRIPLINE LAYOUT
NOT TO SCALE

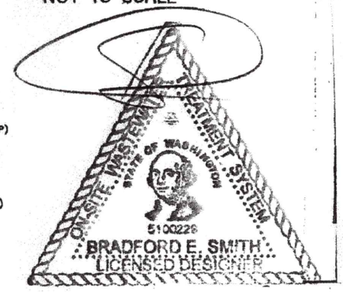


*(P.U. HEADWORKS #4)

HD FOWLER CONTINUOUS FLUSH HEADWORKS DETAIL
NOT TO SCALE



HEADER DETAIL
NOT TO SCALE



CLIENT: JIM SHELDON	(206) 790-0667
1310 6TH AVE SUITE 102 TACOMA, WA. 98405	
SITE ADDRESS: 5850 62ND AVE NW	DATE: 1-25-21
PARCEL NO.: 01-22-13-2-077	REV. DATE:

PENINSULA SEPTIC DESIGNS
BRADFORD E. SMITH
P.O. BOX 1444, GIG HARBOR WA 98335 PH#(253) 851-2178

#8094 Pg 2 of 3

Soil Type 4
Bedrooms

Continuous Flush Headworks: The *Continuous Flush HD Fowler Headworks* is a simplified headworks that meets the intent of the Washington State Department of Health's *Recommended Standards and Guidance for Sub-surface Drip Irrigation* filtration and flushing (See appendix A). This headworks is set-up for a maximum flow rate of 15 gpm at 60 psi (138.6 ft. head) and an upsized Netafim disk filter (1" disk filter). The system will be a continuous forward flush through the disk filter while maintaining a 2 ft/sec velocity in the dripfield network. To adjust the headworks for continuous flush operation use the following steps:

1. Flush the entire piping network by running the pump for several minutes with the field flush valve open.
2. With the pump still running slowly close the field flush valve. Once the needle on the pressure gauges stabilize, record the pressure on gauges and flow rate through the flow meter for one minute. This will be the actual dose flow rate in gpm needed for the timer settings.
3. Next, calculate the flushing flow rate by multiplying the number of supply manifold connections by 1.6 gpm. Add the dosing flow rate from step 2 to the flushing flow rate. This new accumulative flow rate is the minimum flow rate needed to achieve adequate scouring velocity in the entire system when system is dosed.
4. While the pump is running, open the field flush valve slowly until the return pressure gauge reads 10 psi.
5. Now record the flow rate through the flow meter. I should be greater than the new accumulated flow rate required in step 3. More is better.

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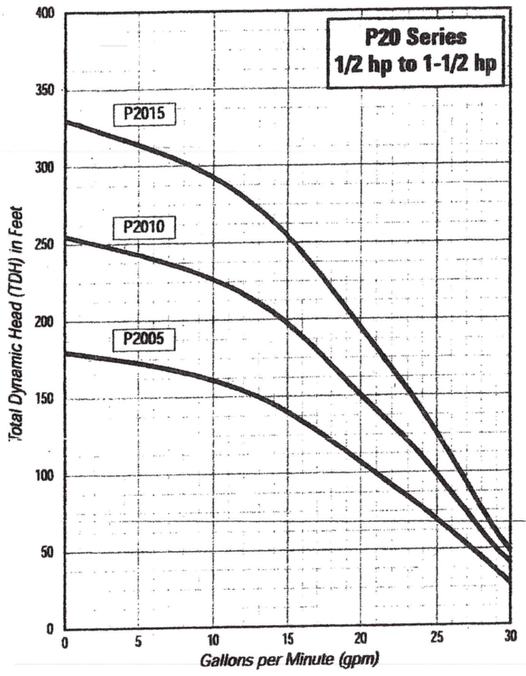
Kitsap Public Health District



Install a vacuum relief valve in each distribution sector. A distribution sector is that length of drip tube beginning at the supply line/manifold and ending at the flush line/manifold.

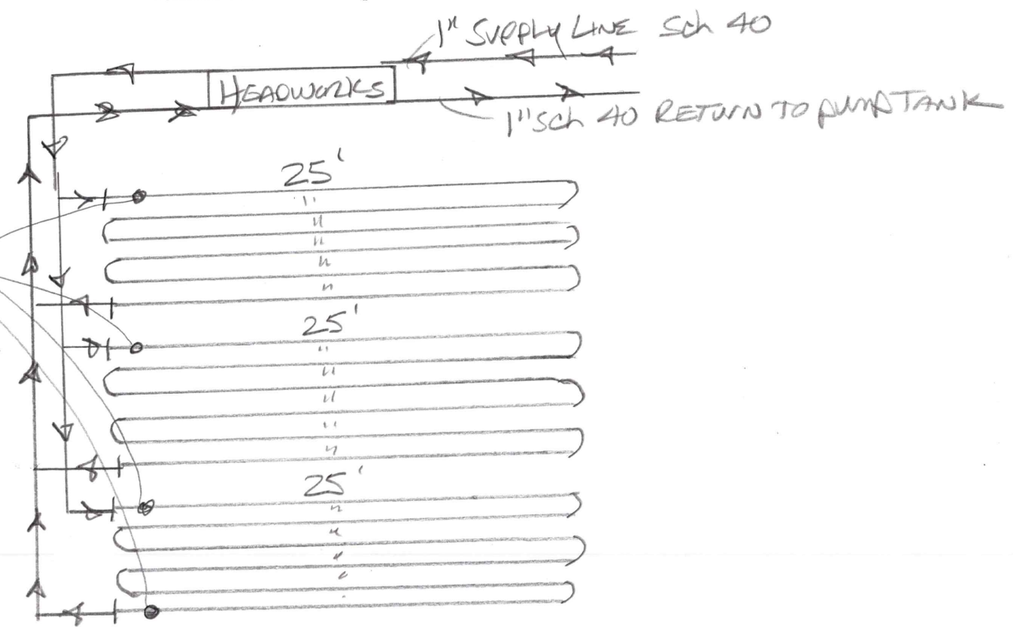
450 emitters needed - use NETAFIM OSWIAM .4 RV

450 emmitters @ .42 gph = 189 gph or 3.2 gpm.

Dose settings 12 doses per day, 30 g/dose.

Drip Line at 24" separation, emitters at 12" spacing (primary).

Manual back flush of spin filter and drip lines.



(4) VACUUM RELIEF VALVE(S)

(3) 150 LF LATERAL(S) / (6) 25 LF LINE(S) EACH

All vacuum relief valves and head works must be housed in valve boxes to surface grade.

BRADFORD E. SMITH
STATE OF WASHINGTON
ONSITE WASTEWATER TREATMENT SYSTEM
21002
BRADFORD E. SMITH
HIGHER LEVEL DESIGNER
Expires: 11-28-22

CLIENT: JIM SHEEHAN (206) 790-0667
1310 6th AVE SUITE 102
TACOMA WA 98405
SITE ADDRESS: 5800 62nd AVE NW DATE: 1-25-21
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PENINSULA SEPTIC DESIGNS
BRADFORD E. SMITH
P.O. BOX 1444, GIG HARBOR WA 98335 PH#(253) 851-2178

Pg 3 OF 3
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