



APPLICATION FOR ON-SITE SEWAGE DISPOSAL PERMIT

Owner Name:	First & Last	Address	Phone Number
Applicant's Name:	First & Last	Address	Phone Number

Property Address: _____ Parcel Number: _____

Name of Subdivision/Short Plat: _____ Block Number: _____

Property Size (Sq. Feet/Acres): _____ Distance to Public Sewer System: _____ ft.

Water Supply: ☐ Individual Well ☐ Spring ☐ Public System (name): _____

If Single Home: ☐ Built On-Site ☐ Prefabricated ☐ Mobile Home Number of Bedrooms: _____

Name of Building Contractor: _____ Phone Number: _____

If Other Than a Single Family Home, Type of Structure: _____

I understand if this application is denied, I have the right to request an appeal hearing before the Health Officer. I understand this request for hearing must be made in writing within 30 days of notification of denial, and that a hearing will be set within 30 days of the receipt of my request for hearing. I further understand that if the appeal to the Health Officer is not successful, I have the right to appeal that decision to the County Board of Health.

In person at 112 N. 2nd St; Dayton, WA. 99328
Please make checks payable to Columbia County Public Health,
Over the phone at 509-382-2181 or Online at http://agent.pointandpay.net/pointandpay_counter/

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MINIMUM SPECIFICATION FOR CONVENTIONAL ON-SITE SEWAGE SYSTEMS

SEPTIC TANKS

- All wastewater from homes or other buildings must be treated and disposed of in an approved on-site sewage system if a public sewer is not available. Wastewater from the toilet, bath, kitchen, laundry, etc. flows first into a septic tank located at least 5 feet from the building foundation.
- Only septic tanks approved by this department may be installed. All septic tanks must have two compartments or consist of two tanks in series. Tanks must be installed with cleanouts and inspection access to finished grade. All septic tank access riser covers must have effluent filters and risers to finish grade.
- Required minimum capacities are based on the number of bedrooms in a home: 1000 gallons for 4 bedrooms or less, 1250 gallons for 5 bedrooms, 1500 gallons for 6 bedrooms. Other buildings must be served by tanks sized at least 1.5 times the daily flow.

SEWER LINES

- Pipe used to and from the septic tank must be of required material: 4 inch ABS schedule 40 or PVS 3034. Cast iron or sleeved (double cased) approved pipe must be used under driveways and parking areas.
- Sewer pipe must be installed at the following slope: 1/8 to 1/4 inch per foot (or 45 degrees to vertical) between building and septic tank, 1/8 inch per foot to vertical between tank and drain field. All joints must be watertight.
- A cleanout extended to finished grade must be installed within 2 feet of the building.

DISTRIBUTION BOXES OF TEES

- A distribution box or level tee is required to provide equal distribution of effluent to the disposal system.
- Use of a distribution box is required if the drain field is installed on a slope. Use of distribution boxes for other installations may be optional.
- If distribution boxes are used the following is required: The box must be bedded properly with gravel or concrete to assure that it is level and must be water tight. (Water testing will be required during inspection). Sewer pipe into and out of the box shall be of the same specifications as above and shall extend at least 5 feet from the box before the beginning of perforated drain pipe.

SUBSURFACE ABSORPTION SYSTEMS (DRAINFIELDS)

1. Conventional drain field design: 36 inch trench width; 6 inches of washed rock either round or crushed (3/4 inch—2 1/2 inch in diameter) placed evenly in the bottom. A perforated 4 inch pipe is set on top of the drain rock with both drain holes positioned at the 4 and 8 o'clock position facing down. Then another 6 inches of rock to cover the pipe is required (4 inches to cover the pipe and 2 inches over the top rock must be level not mounded). The ends of the pipes shall have monitor ports to finish grade. Trench depth will be determined by the Health Department, based on the soil type and whether or not there is a water table or impervious layer like basal or hardpan for a gravity system.
2. In some cases a pump chamber may be required to boost the effluent to a higher elevation or shallower trench in order to meet depth restrictions. There must be at least a 3 feet vertical separation from the bottom of the drain field trench to water table or an impervious layer like basal or hardpan for a gravity system. The separation may be reduced if an engineered enhanced treatment design is approved.
3. A minimum of 2 lines is required and all lines should be of equal length.
4. Minimum distance between lines is 10 feet on center.

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MINIMUM SPECIFICATION FOR CONVENTIONAL ON-SITE SEWAGE SYSTEMS

SEPTIC TANKS

5. Maximum length of any gravity drain line is 100 ft.
6. The bottom of the drain field trench site shall be level, and the drain field pipe shall also be installed level. If there is a significant slope to the site, the trenches shall follow the contours to maintain level elevation.
7. Drain field lines may not be installed on slopes exceeding 15% (45 inches fall in 25 feet)
8. An approved unwoven geotextile (filter fabric) is required over the gravel before backfilling the trenches.
9. The drain field shall not be located under driving or parking areas or be paved or build over. Areas subject to tree roots or surface drainage shall be avoided. Locate the system outside of easements or utility routes.
10. Required minimum amount of drain field is based on the number of bedrooms in a home (or daily sewage flow in other buildings) and the soil type. The Health Department will specify the required drain field size and design on the permit. The minimum drain field required shall be based on a minimum of 240 gallons per day.
11. All alternative systems (not gravity flow) must have prior approval by the Health Department before the installation.

A permit detailing sizing and design specifications must be issued before installation of any on-site sewage disposal system, and the system is required to be inspected and approved by the Health Department before backfilling. Owner installed systems must have 2 inspections. If the system is incomplete upon inspection, remainder, including cleanout and sewer from house must be inspected before final approval. An additional fee will be charged if second follow-up inspection is necessary.

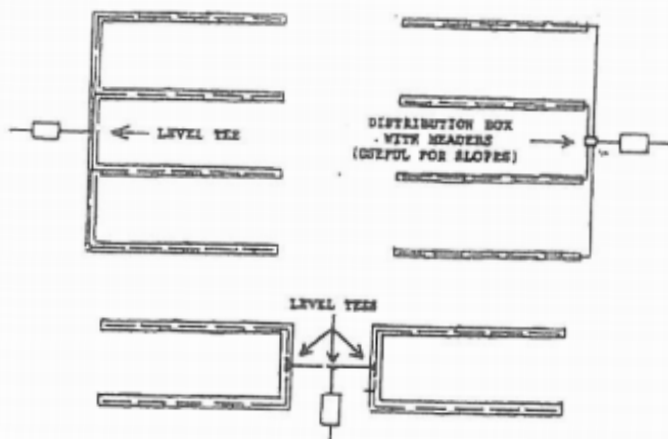
Permit is valid for 5 years from first approval date.

Table IV
Minimum Horizontal Separations

Items Requiring Setback	From edge of soil dispersal components and reserve area	From sewage tank and distribution box	From Building sewer, and non-perforated distribution pipe
Well of suction line	100ft	50ft	50ft
Public drinking water well	100ft	100ft	100ft
Public drinking water spring measured from the ordinary high-water mark	200ft	200ft	100ft
Spring or surface water used as drinking water source measured from the ordinary high-water mark ¹	100ft	50ft	50ft
Pressurized water supply line	10ft	10ft	10ft
Decommissioned well (decommissioned in accordance with chapter <u>173-160</u> WAC)	10ft	N/A	N/A
Surface water measured from the ordinary high-water mark	100ft	50ft	10ft
Building foundation/in-ground swimming pool	10ft	5ft	2ft
Property or easement line	5ft	5ft	N/A
Interceptor/curtain drains/ foundation drains/drainage ditches			
Down-gradient ² :	30ft	5ft	N/A
Up-gradient ² :	10ft	10ft	N/A
Other site features that may allow effluent to surface			
Down-gradient ² :	30ft	30ft	N/A
Up-gradient ² :	10ft	10ft	N/A
Down-gradient cuts or banks with at least 5ft. Of original, undisturbed soil above a restrictive layer due to a structural or textural change	25ft	25ft	N/A
Down-gradient cuts or banks with less than 5ft. of original, undisturbed soil above a restrictive layer to structural or textural change	50ft	N/A	N/A
Other adjacent soil dispersal components/surface storm water infiltration systems	10ft	N/A	N/A

¹If surface water is used as a public drinking water supply the designer shall locate the OSS outside of the required source water

²The item is down-gradient when liquid will flow toward it upon encountering a water table or a restrictive layer. The item is up-gradients when the liquid will flow away from it upon encountering a water table or restrictive layer.



GEOTEXTILE STANDARDS

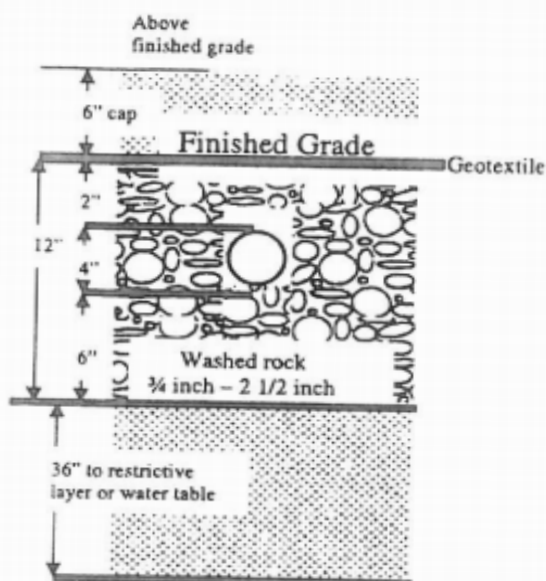
Geotextile must be used to cover the gravel in the drainfield trenches. The fabric shall be nonwoven and meet or exceed the following values:

Property	Test Procedure	Units	Minimum Value
Grab strength	ASTM D4632	LBS	60
Puncture Tear	ASTM D4833	LBS	18
Trapezoid Tear	ASTM 4533	LBS	25
apparent opening size	ASTM D4751	Shall be less than 0.6mm	
Flow rate	ASTM D4491	Gal/sq.ft/min	100

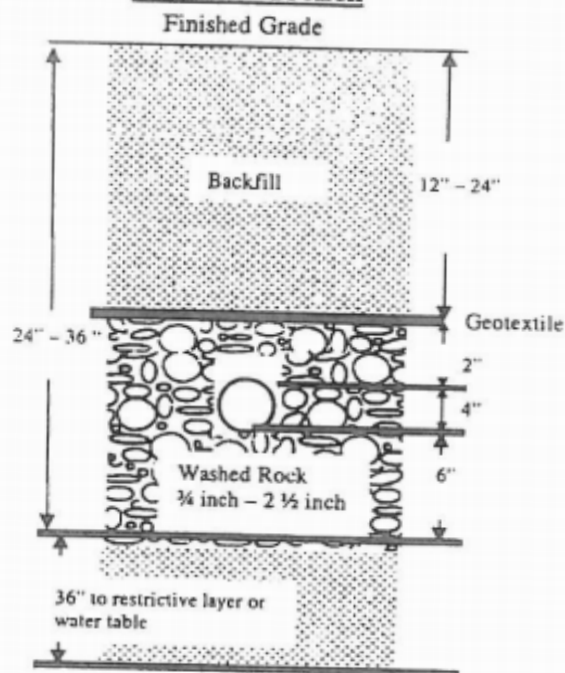
Revised 12/07

Cross-Section of Approved Drainfield Design

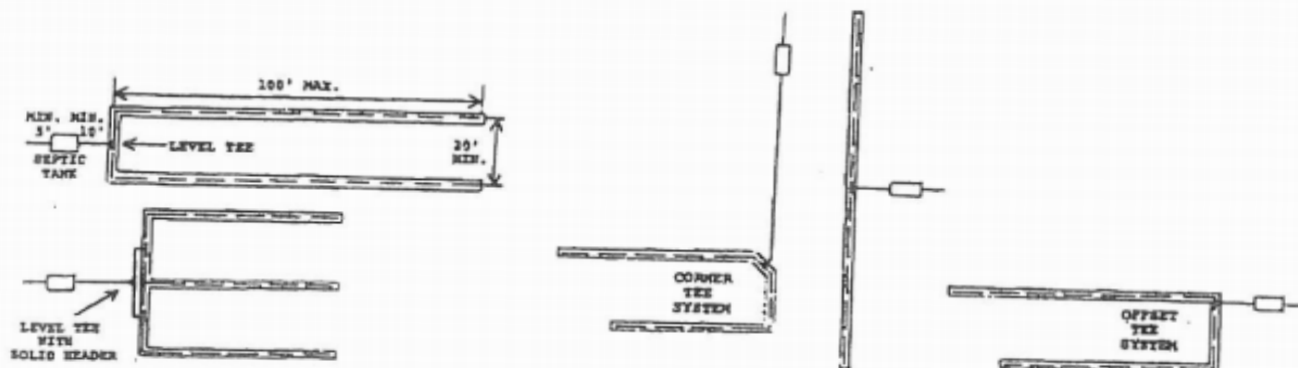
Shallow Trench



Standard Trench



Examples of Drainfield Designs for equal distribution of effluent



Plot Plan

Please Include the Following:

- Property lines lengths & width
 - Location of existing or planned improvements such as buildings, driveways, underground utilities, & water lines
 - Slope of contours of the property in the drainfield area
 - Location of Septic System
 - Location of your well and your neighbors well
 - Location of streams, ponds, irrigation ditches and other bodies of water
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