



MARION COUNTY PUBLIC WORKS
BUILDING INSPECTION DIVISION
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SAND FILTER CONSTRUCTION PLAN REQUIREMENTS

See OAR 340-071-0295 for Sand Filter Design and Construction Requirements

- ___ 1. **SYSTEM STAKEOUT & RELATIVE SITE ELEVATIONS:**
 - The house and all components of the sand filter system are required to be staked out in the field. *Stakes are to be color-coded and clearly identified on the site plan.*
 - A temporary benchmark (TBM) is required using an arbitrary base point and assigned the elevation 100.0'. Use a permanent point such as a well head or property pin, etc. All elevations will relate to this point. **Elevations required:**
 - **Existing ground surface elevations** of homesite, corners of sand filter, septic tank, and all drainfield lines including repair lines.
 - **Elevations of sand filter and pump components:** sand filter, underdrain, distribution network, septic tank, and pump control float settings (on, off, and alarm).

- ___ 2. **SITE PLAN:**
 - *Must be drawn to scale.*
 - **Items that must be provided:** North arrow, property lines with dimensions, *all existing and proposed* buildings, roads, and driveways, wells (on this property and neighboring wells within 100' of property line), any surface water and drainageways, slope with direction, cuts and filled areas, and any other existing or proposed items which may effect the septic system location or design.
 - The site plan must include items that have been staked out on the site. *Stake color-coding with elevations must be on the site plan.*

CONSTRUCTION PLAN DRAWINGS AND DETAIL REQUIREMENTS:

- ___ 3. **Septic tank and dose tank drawing and details** including manufacturer, manhole and lid details, anti-buoyancy (if required).

- ___ 4. **Pump assembly and float controls details** including pump and valve assemblies, pipe sizes and grades, effluent screen details with model number and manufacturer, pump control float and alarm settings, and electrical splice box details. *NOTE: Marion County electrical permit and inspection required for pump.*

- ___ 5. **Completed hydraulic calculation sheet.** Include pump curve for appropriate pump.

- ___ 6. **Sand filter unit details** including:
 - *Top view* showing dimensions, distribution manifold and lateral piping layout with line lengths spacing, orifice sizes and locations, lateral cleanout assembly details, and orifice shields.
 - *Side view* showing containment structure with supporting and material details, liner details, sub base detail, and cross section of sand filter materials and depths.

- ___ 7. **Drainfield details** including cross sectional drawing showing type of boxes, drainfield materials, curtain drain, and capping fill details (if required).

- ___ 8. Sand filter **sand sieve analysis** from product source. The analysis date must be within 90 days.

Failure to provide required information may result in plans being returned.