

On-site Wastewater Treatment System (OWTS) Engineering Requirements

The purpose of this checklist is to ensure that all submitted designs meet the minimum requirements of the Delta County OWTS rules and regulations. Delta County will not provide conditional approval of an OWTS permit to the property owner, contractor, or engineer until all requirements are met.

Documentation

→ 100-year Floodplain

- The property **is not** located within a floodplain.
- The property **is** located within a floodplain:
 - The property owners have obtained a floodplain permit.
 - Indicate the height of the 100-year flood elevation on design.

→ Stormwater Discharge

- The property **will not** disturb 1 acre of ground or more during development.
- The property **will** disturb 1 acre of ground or more during development:
 - The property owners have obtained a stormwater discharge permit.

→ Road Access

- The property **does not** obtain access from a state highway.
- The property **does** obtain access from a state highway:
 - The property owners have applied for and received/obtained a copy of their CDOT access permit.

→ Zoning

- The property **is not** intended for commercial use.
- The property **is** intended for commercial use:
 - The property location is zoned for the planned use.

→ Proximity to Community Sewer

- The property **is not** located in or directly adjacent to a municipality.
- The property **is** located in or directly adjacent to a municipality:
 - The property owner has obtained a letter of municipality refusal to connect.

Property Information

- The OWTS site has a legal address
 - **NOTE: Delta County regulations require that each livable structure on a piece of property have its own address (this means that if you have a main house and a guest house, you would have 2 addresses tied to your property).**
 - **NOTE: If your design has an incorrect address, we will need it to be updated to the correct address. This ensures that we are tying the correct application, design, and permit to the appropriate structure.**
- The parcel for the OWTS site abides by the minimum land density requirements.
 - Refer to Table 3-1 in the Delta County OWTS Regulations

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Engineering Design Requirements

→ General (pursuant to *Section 3.7*)

- Soils Evaluation results
 - **NOTE: Consider referring to the NRCS web soil survey, found [here](#).**
- Site plan drawn to scale
 - **NOTE: Site plan drawings should include the OWTS in its entirety (structure, cleanout(s), lines, tank, distribution box, risers, full soil treatment area, inspection ports).**
 - Where a sewer has a change of horizontal direction greater than 45 degrees, a cleanout must be installed at the change of direction unless a cleanout already exists within 40 feet upstream of this fitting.
 - A cleanout exists, at most, every 100 feet from the structure to the tank.
 - Inspection ports are indicated at the terminal end of each lateral (trench system), at each corner (bed system), OR to be installed per manufacturer's instructions.
- Site plan includes relative elevations
- Site plan includes all physical features located on and near the property:
 - Lakes, rivers, streams, springs, water-courses, irrigation ditches/laterals, gulches, etc.
 - Wells, cisterns, existing septic systems, etc.
 - Trees, cutbanks, wetlands, etc.
 - Existing structures, waterlines, property lines, etc.
- Site plan includes all setbacks
 - Refer to Table 6-2 in the Delta County OWTS Regulations.
- Include design data listing all sizing rationale
- Include a plan drawing with cross sections of construction details
- List a concise, step-by-step construction technique
- Specify materials and equipment to be used
- Include your Registered Professional Engineer's stamp or seal on the plan

→ Additional Considerations

- If designing a pressure-dosed system or a system that requires an electrical component:
 - Specify to use a tank that is designed for a pump
 - Include a schematic illustrating float heights
 - Indicate that all electrical components must be hardwired to a control panel.

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Requirements Post-Installation

- Notify the Department that OWTS installation is complete and ready for a final inspection.
- Complete and submit a record drawing (aka “as-built”) with RPE stamp/seal and number.
- Record drawing must include a scale drawing showing all components of the OWTS, including their location from:
 - Known and findable points (benchmarks)
 - Dimensions
 - Depths
 - Sizes
 - Manufacturer’s names and models (as available)
 - Other information relative to locating and maintaining the OWTS components
- Complete and submit a letter certifying that the system was installed either according to the design, or indicate any deviations from the original design.

Please call or email us if you have any questions or concerns regarding your project. We strive to create a streamlined permitting process that promotes detailed accuracy so that homeowners will be able to successfully locate and maintain their systems for years to come.

Office: (970-874-2165)

Email: eh@deltacounty.com