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Sewage Treatment Design Guidance

To ensure that your design is processed quickly and efficiently, please include the following items on all STS design plans:

- ✓ Site Visit
 - The designer or designee must visit the site of the proposed installation prior to submitting a design plan
 - The soil absorption component area must be staked, flagged, fenced, or painted for identification and protection
- ✓ System Information
 - Property address and township
 - System Type
 - Household Sewage Treatment System (HSTS) or Small Flow On-Site Sewage Treatment System (SFOSTS)
 - Daily Design Flow in gallons per day
 - Designer name and contact information
- ✓ Materials and System Components
 - Tank type - size, brand, and distributor
 - Lift station (if applicable) – size, pump size (HP and GPM), brand, and distributor
 - Distribution materials – piping, distribution device, and diversion mechanism
- ✓ Soil Absorption Type and Material
 - For Leaching Design
 - Leaching trench product
 - Trench description – number of lines, length, width, and maximum depth
 - For Mound Design
 - Absorption area – width, length, aggregate depth, and sand fill depth
 - Slope – side slope ratio, width of upslope/downslope/endslope
 - Drawing of mound top and side view
 - Other Design
 - Include appropriate information
- ✓ Drainage (if applicable)
 - Perimeter/Gradient drain – depth, gravel size, and gravel depth
 - Interceptor drain – depth, gravel size, and gravel depth

- Engineered drainage – soil type, drain depth, drain spacing, lowered water table depth, gravel size, and gravel depth
- Drainage discharge point description
- Indicate if an inspection port is required
- ✓ Any applicable installation notes
- ✓ Site Drawing must include the following
 - Scale
 - All STS devices and components
 - Including but not limited to: cleanout(s), piping, piping angles, tank(s), distribution device(s), soil absorption layout, drainage, control panel, alarms(s), inspection ports
 - Location Surface Features
 - Test holes
 - Replacement area
 - Disturbed areas
 - Drainage features
 - Wooded areas
 - Hardscapes existing STS
 - Other features
 - Location of the following items with demonstration that required isolation distances are met
 - 10-foot isolation distance for all components of a STS – utility service line, roadway or road surface, driveway or other hardscape, property line or right-of-way, properly sealed well, any building or other structure, areas with recorded easements, intermittent streams, swales, geothermal horizontal closed loop systems, irrigation lines, GWRS.
 - 50-foot isolation distance for soil absorption component – any surface water impoundment, lake, river, wetland, perennial stream, road cut-banks, or stream, cut-banks.
 - 50-foot isolation distance for all components of a STS – any water supply source and vertical open and closed loop geothermal heating and/or cooling system
 - North directional arrow
 - Ground surface elevations