

LAGRANGE COUNTY REGIONAL UTILITY DISTRICT

GUIDELINES FOR INSTALLATION OF SEWER FROM A STRUCTURE TO THE GRINDER PUMP UNIT

The following guidelines shall apply for all residential, commercial, industrial, and institutional users connecting to the LaGrange County Regional Utility District (LCRUD) sanitary sewer system. These guidelines cover construction of sewer laterals from serviced structures to the grinder pump units.

****IF THE GRINDER PUMP NEEDS TO BE MOVED** because a new structure is being built, please schedule a meeting with the General Manager to discuss the process and procedures. **The cost of moving the grinder is solely on the property owner or Contractor. ****

1. Before constructing a sewer, excavation or construction begins, the property owner and/or contractor must apply for and obtain a sewer connection permit. The cost of the permit is \$70.00 as referred to in the current Rate Ordinance and includes inspection. Sewer connection permits can be obtained at the LCRUD administrative office located at 116 E Wayne St, LaGrange, Indiana 46761.
2. Before constructing sewer, excavation or construction begins, it shall be the responsibility of the property owner and/or contractor to have all underground utilities located by calling Indiana Underground Plant Protection Service (IUPPS) at 811. There is a 48-hour advance notice prior to the commencement of any excavation, as required by the Indiana Code.
3. The lateral to the grinder pump can be installed by the homeowner per the District guidelines.
4. Prior to the final connection to the collection system, all non-waste producing units (i.e., sump pumps, foundation drains, roof down spouts, etc.) are required to be disconnected from the sewer line.
 - a. Under no circumstances may groundwater or rainwater be discharged into the sanitary sewer system. Excess groundwater and/or rainwater getting into the system either through leaky joints or direct connections greatly reduces the design capacity of the treatment plant for the sanitary wastes. Further, it uses up the future capacity of the treatment plant so that other dwellings or businesses cannot hook on to the collection system.

- b. For these reasons all structure sewers shall be constructed new from within three (3) feet of the structure to the sanitary grinder pump. The inspector will check specifically for this before approving the installation of the structure's sewer, which may require the inspector's entrance into the structure and/or basement.
 - c. It is the responsibility of the contractor to make arrangements allowing the LCRUD inspector entrance into the structure at the time of the inspection.
- 5. Under no circumstances may sand, grit, grease, oils, solvents, gasoline or any other such substances be discharged into the sanitary sewer system. Grease traps may be required for some installations.
- 6. Property owners will be responsible for the maintenance of the sewer from the structure to the grinder unit. Strict adherence to these guidelines is essential to prevent costly future maintenance problems and higher sewer fees.
- 7. The property owner and/or contractor must comply with the LaGrange County Regional Utility District Sewer Use Ordinance and Sewer Rate Ordinance. Violations of the Ordinances and/or these guidelines can result in the imposition of a fine.
- 8. Any modifications to the plumbing shall be performed in accordance with Local and State Code.

MATERIALS

- 1. Structure sewers shall be of PVC pipe and fittings and shall have gasketed joints or glue joints, depending on the proximity of the drinking water well.
- 2. Glued joints are permissible if the drinking water well is more than 50' from the gravity line.
- 3. All joints shall be watertight.
- 4. PVC pipe shall be either schedule 40, SDR-21 or greater quality.
- 5. Bedding the pipe with sand or pea gravel is required from **4" below the pipe to 6" above the top of the pipe.**
- 6. Pipe must be bedded for inspection however inspectors will require inspection of pipe material and joints. **Clay and rock backfill is unacceptable.**

INSTALLATION

1. Structure sewers shall be installed using the shortest and most direct route to the grinder pump.
2. Interior plumbing modifications are recommended rather than excessive changes of direction in the structure sewer.
3. A 4" vent is required if no plumbing vent has been installed in the structure.
 - a. The vent shall be located within 4' of the structure on the structure sewer and should extend approximately 2' above grade.
 - b. The vent must incorporate a stainless-steel screen and removable top section (see Figure 1). Note, this vent can also be utilized as a clean out.
4. A cleanout will be installed in conjunction therewith for routine maintenance.
5. Sewer clean outs shall be installed at a maximum of every 100 feet along the structure sewer. Accessible clean outs shall be installed at every change of direction for any sewer line over 50 feet.
6. Clean outs shall extend to grade, pipe liners (frost sleeves) are recommended to be placed around the clean out grade extension.
7. The clean out shall be a full-size tee fitting installed with proper riser directed to above grade and fitted with accessible/removable lid/cap.
8. Clean outs shall be the same diameter as the lateral sewer pipe, with a minimum size of 4 inches in diameter.
9. Clean outs shall be covered with a removable type of plug or cap.
10. A back-flow prevention valve will be installed where two or more structures are connected to the same grinder unit.
 - a. The backflow prevention valve shall be installed on each lateral connection to a double grinder pump.
 - b. The back flow prevention valve shall be installed between structure and cleanout wherever possible.

11. All fittings shall be installed to guide sewage in the direction of flow. There shall be no:
 - a. Elbows greater than 45 degrees. If a change in direction greater than 45 degrees is required, two (2) 45-degree elbows shall be used with 1 foot of pipe between 45's.
 - b. It is suggested that a clean out be installed between the 45-degree elbows.
 - c. The riser may be used to connect but you must use a sweep tee to connect to vertical riser.
12. The structure sewer piping shall be 30" below grade whenever possible and shall be placed with a uniform slope of at least 1/4" per foot for 4" pipe and 1/8" per foot for 6" pipe.
13. All existing septic tanks, holding tanks and outhouses must be properly abandoned according to all State and Local Laws.
14. Under no circumstances shall connection to a structure sewer be made through septic tanks in accordance with the State of Indiana.
15. The homeowner and/or contractor is to cut and remove the existing solvent weld cap from the end of the existing grinder unit gravity line stub and connect the new structure sewer to it, using a suitable watertight coupling as required and compatible with the new pipe materials. Note, only a Fernco coupling, or a Mission coupling is allowed on the structure sewer.
16. **Prior to backfilling** over the structure sewer installation, all construction shall be:
 - a. Inspected and approved by an inspector from LCRUD for verification of compliance of minimum standards for design, material, and workmanship. Any structure sewer backfilled prior to inspection approval shall be required to be re-excavated for proper inspection and approval. Contact LCRUD at (260) 499-6349 at least 24 hours prior to the installation being complete and a LCRUD inspector will be sent to complete the inspection.