

## **SECTION 5.3 – RELOCATION OF EXISTING GRINDER PUMP**

*For Genoa and Oceola Township Municipal Systems that are Operated by the MHOG Utility Department*

This procedure has been developed to assist property owners with the various steps associated with relocating an existing grinder pump. Grinder pumps typically service single family residences where the municipal sewer is a low pressure force main. Temporary removal and/or relocation of an existing grinder pump is usually associated with construction at a residential home, for example demolition of the home for a re-build or a home expansion.

The following procedure outlines the steps necessary to coordinate the relocation with MHOG:

### ***1. Locate Lead - Records Available with Township***

The property owner shall contact the Township in which the abandonment is located to determine if there is a lead sheet for the subject parcel.

*Note: The MHOG Utility Department can assist in this preconstruction step by providing any plans for the sanitary sewer, but the lead sheet is typically stored at the Township.*

Ultimately, the Township needs to approve sanitary sewer service relocations before the property owner works with the MHOG Utility Department. The Township typically issues a demolition permit, land use permit, or waiver for this work. The Township should also ensure a grinder pump easement is recorded with the Livingston County Register of Deeds and applicable to the new site layout. A sample easement document is included in Appendix B.

### ***2. Suspension of Service***

MHOG owns and maintains the grinder pump, therefore system operators will remove the existing pump from the pump chamber to protect it during construction activities. Typically the pump is pulled prior to when demolition activities start. The property owner should contact MHOG to schedule this pump removal. Once the pump is removed, the billing of the account can be temporarily suspended.

If the new construction requires the pump to be relocated, as part of demolition the existing pump chamber shall be excavated and removed. The discharge line should be exposed, cut, capped, inspected by system operators, and marked for future connection with a post.

If the new construction does not require the pump to be relocated, then the existing gravity sewer to the grinder pump should be dug up, cut, capped inspected by system operators, and marked for future connection. The grinder can shall be protected during construction. Operators will inspect the can prior to installing a new pump upon completion of construction.

If the homeowner wishes to maintain sanitary sewer service to the building during construction they shall work closely with the Utility Department. An option to restore sanitary sewer service as quickly as possible is to install the new pump chamber and connect the new pump chamber to everything but the gravity lead into the house. It should then be feasible to pull the pump, connect the new gravity service, and re-install the pump chamber in the same day.

### **3. *Grinder Pump Re-Installation Requirements***

Depending on the individual site conditions, the replacement of several parts of the grinder pump system will be required at the property owner's expense. The current cost of grinder pump parts is included in Appendix C. In addition, Appendix C includes a question and answer guide to assist a homeowner or contractor with determining which parts they have to purchase.

The property owner is responsible for installation of the following components associated with the grinder pump:

- Installation of the new grinder pump chamber. The location of the grinder pump must be approved by MHOG prior to installation. The grinder pump must be serviceable (accessible by truck) and free from obstruction.
- Extending/relocating the existing force main from the grinder pump to the shut off valve
  - The MHOG Utility Department will inspect this force main after installation.
- Extending / re-locating the gravity lead from the house to the grinder pump. This portion is under the jurisdiction of the Livingston County Building Department, and the permissible materials for the pipe and fittings should be approved by them.
- The property owner is responsible for installation of the control panel and all electrical components of the grinder pump. There must not exceed 100-feet of electrical cable between the control panel and the pump (the grinder panel comes with 32-feet of electrical cord, but up to 100-feet of electrical cord can be purchased for an additional cost)
- Refer to the Engineering Standard Detail for specifications on the electrical and piping components of the grinder pump.
- See Appendix D – Grinder Pump Installation Guide
- MHOG will deliver and start up the grinder pump once the chamber and electrical have been installed by the property owner.

### **4. *Permits***

All other applicable permits are the responsibility of the property owner, including, but not limited to land use permits, road right-of-way permits, building department permits, and health department permits.

## 5. Fees

The potential fees that may be required for this procedure are listed below:

<b>Description of Fee</b>	<b>Further Info on Amount Can be Found</b>
Township Fees (including tap fees)	The Township in which the site resides
Grinder Pump Fee Table	Appendix C of this Manual
Plumbing Department Inspection Fees	Contact Livingston County Building Dept.
Contractor Fees (Excavation, Plumbing, Grinder Pump Re-Installation)	To be hired by Property Owner
Road Right of Way	Livingston County Road Commission or MDOT