

**PLANNING & DEVELOPMENT SERVICES**

4550 Walnut Lake Road  
 West Bloomfield, MI 48323  
 P. (248) 451-4818  
 F. (248) 451-4874  
 wbtownship.org



**GRINDER PUMP INSTALLATION  
 APPLICATION**

Application must be filled out completely

Process Number PGPU \_\_\_\_\_

JOB LOCATION		Application Submittal Checklist:					
Address		<input type="checkbox"/> \$1,500.00 Grinder Pump System Design Escrow <input type="checkbox"/> \$500.00 Township Administrative Fee (Non-refundable) <input type="checkbox"/> Mortgage Survey					
City	Zip Code						
County	Property Tax ID#						
Town / Section	Subdivision					Lot #	Block #
West Bloomfield Township							
Oakland County							
T2N, R9E, Section							
PROPERTY OWNER INFORMATION							
Name							
Address (Street Number and Name)			Phone				
City	State	Zip Code	Email				
BUILDER/CONTRACTOR INFORMATION							
Name							
Address (Street Number and Name)			Phone				
City	State	Zip Code	Email				
SIGNATURE							
<i>I (we) hereby make an application for connection to the West Bloomfield Township public sanitary sewer using a grinder pump system and agree to the terms and conditions of Section 24-157 of the Township Ordinance Code attached hereto.</i>							
Owner's Signature			Date				

**WEST BLOOMFIELD TOWNSHIP**  
**Grinder Pump Installation Procedures**

1. **Owner (property owner)** – secure informational material and permit application from West Bloomfield Township
2. **Owner** – completes permit application form(s), pays non-refundable application fee, design escrow, and submit proof of ownership and a copy of a survey for:
  - Preparation of engineered Grinder Pump Site Plan
  - Grinder Pump Sanitary Sewer Easement Agreement
  - Existing Homes: Property Information-Preparatory Meeting – Owner must submit a mortgage survey and existing lead information in AutoCAD format (.DWG) as well as a PDF copy at time of payment
  - New Homes: Property Information-Preparatory Meeting – Owner must submit plot plan in AutoCAD format (.DWG) as well as a PDF copy
3. **Township** - notifies Engineering Consultant of the proposed grinder pump connection
4. **Engineering Consultant** – prepares preliminary engineered Grinder Pump Site Plan and schedules on-site meeting with Owner, Contractor and Water Utilities Department **Consultant to notify Township of meeting date**
5. **Engineering Consultant** – updates engineered site plan, drafts grinder pump cost worksheet, and forwards to Owner for approval
6. **Engineering Consultant** – forwards updated engineered site plan to Contractor to obtain their approval and returns completed engineered site plan and grinder pump cost worksheet documents to the Township
7. **Township** – upon receipt of approved engineered site plan, Township prepares Easement
8. **Township** – sends residential charge letter and documents (easement document and engineered grinder pump site plan to Owner requesting their payment to proceed with installation
9. **Owner** – signs easement document and engineered grinder pump site plan, pays all fees associated with the grinder pump purchase, installation, inspection and all connection charges as specified in the fee schedule.
10. **Contractor** – signs engineered grinder pump site plan.
11. **Contractor** – shall apply for and submit copies to Development Services Department:
  - Plumbing Permit (Building Development)
  - Sewer Tap & Water Service Line Permit (Building Development)
  - Electrical Permit (Building Development)
  - Road Commission for Oakland County (RCOC) ROW Permit
  - Soil Erosion Control Permit (Planning & Development Services) (No fees required)

12. **Township** – provides the Owner with grinder pump operation procedures, which is also signed by the Owner and the Township retains originals. Copy of easement, engineered grinder pump site plan and receipts go to the Building Development. Original grinder pump site plan goes to the Engineering Consultant. All copies with original easement go to the Township and a copy of all documents goes to file.
13. **Township** – Engineering Consultant signs engineered grinder pump site plan and provides copies to the Water Utilities Department
14. **Township** – Water Utilities Department orders Grinder Pump Station. Water and Sewer notifies Development Services upon delivery
15. **Township** – upon receipt of permits, documents and payment, Township will schedule a pre-construction meeting
16. **Contractor** – contacts/meets with Owner to schedule installation and provides all parties with installation schedule
17. **Contractor** – notifies Engineering Consultant 48 hours prior to installation to arrange for inspection
18. **Contractor** – installs Grinder Pump System
19. **Contractor** – performs preliminary test on operation of pump station and components. If all items test properly, notifies Township and Engineering Consultant for start-up and placing system into service
20. **Contractor** – provides certification of system and warranty cards to Water Utilities Department
21. **Engineering Consultant** – records as-built locations for all installed items on Grinder Pump Site Plan, signs record drawings, and provides to Development Services and Water Utilities Department
22. **Township** – Water Utilities Department tests unit
23. **Township** – provides Owner with operation procedures and post-installation informational letter
24. **Contractor** – provides Water Utilities Department with operations and maintenance manual

## **FREQUENTLY ASKED PRESSURE SEWER QUESTIONS**

### **◆ Why do I need a grinder pump?**

If the public sanitary sewer in front of your property is currently or needs to be a low-pressure system, a grinder pump is required for connection to the sewer. The type of sewer is constantly under pressure, similar to a water main; therefore, a gravity lead cannot connect to the sewer. A grinder pump grinds any solids in the wastewater and directs the wastewater under pressure to the public sewer. Check valves prevent the waste water under pressure from backing up into your home.

### **◆ What affects the cost of my grinder pump installation?**

In most cases the standard depth grinder pump system will serve your home. Sometimes, homes with deeper basements or homes built on steeply graded lots require deeper or shallower systems. A deeper pump will cost more to purchase and install than one that is shallower. The purchase and installation price of the grinder pump systems can vary depending on the homesite to be served. In addition to this cost, permit and administrative fees will add up to \$2,000. Each property is also subject to a sanitary sewer connection fee as outlined in Township Ordinances.

A long lead from the pump location to the public main will be more expensive than a short lead. Directional drilling will typically be used to install the service lead to your home, which may include crossing the road. This construction method helps avoid impacts to existing trees or landscaping. The contractor will also abandon your septic tank as a part of the grinder pump system installation but will not remove tile fields on your property.

### **◆ What if the wrong size pump is installed?**

If during construction, the contractor determines that a deeper grinder pump system is needed than was originally ordered, there will be additional charge for the labor and equipment required to install a pump extension. The ordering of additional equipment can also result in delays in the installation of your system. Your thorough review of all provided information can help to avoid these additional costs and construction time.

### **◆ Who will extend the electrical service required to power the grinder pump?**

The grinder pump installation contractor will extend both electrical service and telephone service to the grinder pump as a part of this work. The contractor will be responsible for pulling permits and coordinating inspections for this work.

**WEST BLOOMFIELD, MICHIGAN – CODE OF ORDINANCES**  
**CHAPTER 24 – WATER SUPPLY AND SEWAGE DISPOSAL SYSTEMS**  
**Sec. 24-157. - Sanitary grinder pump systems.**

(a) *General.* When allowed or required, sanitary grinder pump systems shall be applied for, reviewed, approved, constructed and maintained in accordance with the procedures, requirements and standards in this section and with any additional standards or precautions that are warranted and deemed necessary by the township engineer to attain greater functional efficiency, security, and protection against additional pollution to meet the requirements of the State of Michigan Department of Environmental Quality and Department of Public Health.

(b) *Permit application and initial determination.* For voluntary and mandatory connections to the public sewer system using a sanitary grinder pump system under section 24-136, the owner of the structure to be served must make written application for a permit to the township engineer. Where the application is for a voluntary connection, it constitutes agreement to the terms and conditions described in this section 24-157. Upon receiving a permit application and determining that the sanitary grinder pump system will best serve the property and the township, the township engineer shall accept and process the application. If it will not, the township engineer shall not approve the sanitary grinder pump system and shall advise the property owner of other sanitary sewer service options.

(c) *Fees.* Non-refundable permit application, review, preparation, recording and processing fees shall be paid by or on behalf of the property owner at times and in amounts as established by resolution of the township board. Fees authorized by this ordinance are intended to include all costs and expenses involved or incurred in or regarding the necessary reviews, plans, approvals and legal documents.

(d) *Permit processing, approval, terms and conditions.* The township engineer's review and processing of an accepted application shall include and result in an identification of the costs that must be paid by the property owner for the purchase and construction of the sanitary grinder pump system, preparation and recording of required easements and agreements including confirmation of ownership, connection and permit charges or fees and any other documents or payments that will be required for the township to permit the sanitary grinder pump system to be constructed and connected to the public sanitary sewer system. That information shall be provided in a written notice of permit approval by the township engineer to the property owner. Upon the owner satisfying all of the payment and document requirements identified in the notice, a permit to construct the sanitary grinder pump system will be issued by the township engineer. For mandatory systems and connections to an available public sanitary sewer system, those requirements shall be satisfied within thirty (30) days of the notice. The summary of the system costs to be included with the written notice of permit approval shall include, but is not limited to; the grinder pump assembly, its equipment and related appurtenances, collection and discharge piping to and from the grinder pump system, the electrical control panel/telephone dialing system, the abandonment of existing septic tank, all labor and installation costs, inspection fees, administrative costs and notice of the then applicable quarterly surcharge for operation and maintenance provided for in subsection (j).

(e) *Township ownership, construction, operation and maintenance.* Notwithstanding section 24-66, which excepts individual building sewers from township ownership, operation and maintenance, because of the direct relationship of a sanitary grinder pump system to the proper functioning of the public low pressure sewer force line it connects to, the township will be the owner and must have the permanent right to enter the private property the system is located on for purposes of assuring that the system is properly constructed, operated, maintained, repaired and replaced as necessary. Consistent with this requirement, an easement in recordable form and signed by all owners must be provided to the township for recording with the Oakland County Register of Deeds for every sanitary grinder pump system that is required or allowed to be constructed.

## Engineering, Environmental, Planning & Zoning Services

(f) *Township purchase and installation.* To provide adequate and reliable operation and maintenance for the sanitary grinder pump systems located throughout the township and considering the relationship of said systems to the public low pressure sewer force lines they are connected to and to provide for uniformity and compatibility of equipment and construction methods, which should result in lower costs for initial installations due to the economies of scale and lower operation, maintenance, repair and replacement costs, the township shall have the right to purchase and contract for the installation of a sanitary grinder pump system that has been applied for and approved. If the Township does not exercise this right, the sanitary grinder pump system and contractor for the owner must be approved by the township as consistent with the purposes and objectives stated above.

(g) *Permit issuance and construction.* Upon the requirements for permit issuance in subsection (d) above being satisfied, the township engineer shall issue the permit by written notice to the property owner and the authorized contractor. The permit shall require the contractor to immediately schedule the construction and notify the township engineer of the commencement date. Absent an extension approved by the township engineer for reasons beyond the contractor's control, no more than forty-five (45) days are allowed from the notice of permit issuance for completion of construction, testing and start-up of the sanitary grinder pump system.

(h) *Construction requirements.* The contractor work shall include all electrical and low voltage power (telephone) related work necessary to connect electrical power supply from the meter location exterior to the property to the exterior location of auto-dialer and control panel. Power supply to panel shall be a minimum 30-amp circuit, 240-volt, 12-gauge, 4-wire service (neutral, ground, two (2) hot leads), installed per electrical code. Auto-dialer, telephone line and its power supply, along with the grinder pump station shall be connected, tested by the contractor prior to acceptance by the township, and putting in to service. All low-pressure force-mains shall be directionally drilled, tested and put into service prior to connecting to the grinder pump system(s). The force-mains shall be constructed with high density polyethylene pipe (HDPE): ASTM D 3035, SDR 11 pressure rating 160 PSI and service lines with HDPE pipe: SDR - 9, pressure rating of 200 PSI. All joints shall be heat fusion bonding that meets ASTM D 2657 standards. All flange adapters and stub ends shall be butt heat fusion bonded. All leak tests shall be conducted in accordance with Oakland County Drain Commissioner's adopted requirements. All materials and equipment used in the system shall be new. No sanitary wastewater shall be discharged to the storm drains, lakes, ditches or any tributary connected to the waters of the state due to construction activity associated with these projects. Sanitary sewers shall not be used for clean-out or de-watering outlets.

(i) *Township acceptance.* Upon the township engineer confirming that the sanitary grinder pump system has been properly installed and connected to the public sanitary sewer system, a written notice of that determination shall be issued to the property owner and sanitary sewage from the structure may thereafter be discharged to the public sanitary sewer system.

(j) *Operation and maintenance charges.* The township's costs in operating, maintaining, repairing and replacing all or part of a sanitary grinder pump system shall be payable by the property owner according to a schedule of costs to apply for actual services required and/or as a quarterly surcharge, with the amounts and items covered to be established by resolution of the township board of trustees, to be billed, paid, collected and enforceable, including as a lien on the property, in the same manner as provided for other water and sewer charges.

(k) *Owner agreements and responsibilities.* The owners and occupants of a structure serviced by a sanitary grinder pump system shall immediately notify the township according to instructions it provides, of any problems or possible defects with the system and its performance and of any power outages at the structure or audible alarms for the system that may be activated. Regardless of whether it was given, in the above situations where notice was to be given to the township, the use of water in the structure in a manner that discharges to the sanitary grinder pump system shall be discontinued until such time as the township confirms that the system may be used, with the owners and occupants assuming all risk and responsibility for any damages to the structure and its contents from the back-up of continued discharges to the system in violation of this provision, indemnifying and holding the township harmless therefrom.

Engineering, Environmental, Planning & Zoning Services

(l) *Enforcement and penalties.* Compliance with the terms and conditions of this section and any easement, agreement or obligation under it shall be enforceable by and subject a violator to the following procedures, penalties and liabilities, as provided for in sections 24-134 and 24-155.

(1) Where a structure is not connected to an available public sanitary sewer system, including a low pressure force line, as required in section 24-133, the township may bring an action for a mandatory injunction in the circuit court to compel the connection.

(2) The Township shall be permitted to enter upon all properties for the purposes of inspection, observation, measurement, sampling and testing of the sanitary grinder pump system at any time during reasonable or usual business hours, with persons refusing or obstructing such entry guilty of a violation of this article.

(3) A person found in violation shall be served with written notice stating the nature of the violation and providing a reasonable time for correction. Failure to take the corrective action within the time stated shall be a violation of this article.

(4) Violators shall be liable to the township for any expense, loss or damage occasioned to the township by reason of the violation, which may be recovered by appropriate action in a court of competent jurisdiction.

(5) Any continued violation, after due notice as provided in subsection (3), shall be deemed a public nuisance, and may be abated by the township upon complaint in any court of competent jurisdiction.

In addition, violations are also punishable as a misdemeanor, subjecting the violator to the penalties and actions provided in section 1-10 of the Code. The township may pursue more than one (1) of these enforcement procedures for a violation at the same time.

(Ord. No. C-660, § 1, 11-17-03)