

**LAKE WHATCOM WATER AND SEWER DISTRICT**  
**Application for Water/Sewer Permit**

**PART 1 - Customer Billing / Lot Owner Information**

Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

**PART 2 - Project Site Information**

Tax Parcel Number: \_\_\_\_\_ Sudden Valley Division: \_\_\_\_\_ Lot(s): \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

**PART 3 - Type of Permit** (check all that apply)

☐ **Water Service**

☐ Single Family Residence

☐ Commercial or Other Type of Building. Describe: \_\_\_\_\_  
Water Supply Fixture Units (WSFU) per Uniform Plumbing Code: \_\_\_\_\_

☐ Customer Pressure Reducing Valve will be Installed. (show location of PRV on site plan)

Special plumbing or activities that will be present on this site:

☐ Underground sprinkler system

☐ Water treatment system (e.g. water softener)

☐ Solar heating system

☐ Residential fire sprinkler system

☐ Other water supply

☐ Sewage pumping facility or grey water system

☐ Boat moorage with water supply

☐ Home-based business. Description: \_\_\_\_\_  
(e.g. beauty salon, machine shop, etc...)

☐ Hobby farm

☐ Animal watering troughs

☐ Swimming pool or spa

☐ Greenhouse

☐ Decorative pond

☐ Photo lab or dark room

☐ **Sewer Service**

List Bonded Side Sewer Contractor Installing Sewer: \_\_\_\_\_

☐ Gravity Side Sewer

☐ Private Grinder Pump to Gravity Sewer Main (Submit Grinder Pump Service Checklist)

☐ Private Grinder Pump to Sewer Force Main (Submit Grinder Pump Service Checklist)

**PART 4 - County Permits & Water/Sewer Service Site Plan**

☐ **Copy of Whatcom County Building Permit** (new construction only)

☐ **Copy of Whatcom County Revocable Encroachment Permit** (required if work is in County Right-of-Way)

☐ **Site Plan.** Plan must be to scale, neat, legible, and include the following information as applicable:

**Existing Features.** Property lines, buildings, driveways, ditches, culverts, sewer mains, manholes, sewer cleanouts, fire hydrants, water main valves, sewer cleanouts.

**Proposed Features.** Buildings, driveways, sewer service alignment, cleanouts, connection to sewer main, grinder pump, location of customer pressure reducing valve, easements, backflow preventor.

**Note:** Tree removal for sewer and water service lines must be coordinated with Sudden Valley Community Association.

Application Submitted By: \_\_\_\_\_ Date: \_\_\_\_\_ Phone: \_\_\_\_\_  
(print name)

# LAKE WHATCOM WATER AND SEWER DISTRICT

## Grinder Pump Service Checklist

### DESIGN/PUMP SELECTION

#### Grinder Pump System

Tax Parcel Number: \_\_\_\_\_

- ☐ E-One 2000 Series Package Grinder Pump System
- ☐ Hydromatic Package Grinder Pump System
- ☐ Liberty Pumps 2448LSG, 2472LSG, or 2484LSG Simplex Grinder Package System
- ☐ Myers Package Grinder Pump System
- ☐ Other (System must be reviewed and approved by District. Submit drawings, specifications, & calculations)

Static Head (feet): \_\_\_\_\_ (Vertical distance, or height, effluent is pumped)

Dynamic Head (feet): \_\_\_\_\_ (Friction losses due to pipe, bends, valves, fittings)

Total Dynamic Head (feet): \_\_\_\_\_ (Static Head + Dynamic Head)

Pump Operating Point (gpm): \_\_\_\_\_ (Flow rate of pump at Total Dynamic Head)

### MINIMUM SPECIFICATIONS

Grinder pump systems shall be in accordance with Section C1-10.1 and C1-10.2 of the current edition of the Criteria for Sewage Works Design published by Washington State Department of Ecology. Specific section references from the design manual are noted in parentheses below.

Installed grinder pump system shall meet the criteria for the maximum hydraulic gradeline and be able to meet the pumping requirements of the structure where it is installed. (C1-10.1.5)

#### ☐ Connection to Gravity Sewer Main

- ☐ Pressure service line shall be 1-1/4" HDPE SDR11 between grinder pump and gravity sewer stub.
- ☐ Minimum pipeline velocity of 2 feet per second. (C1-10.1.4)
- ☐ Maintenance shut-off ball valve on discharge line at grinder pump. (C1-10.2.1A)
- ☐ One check valve required. Can be installed on grinder pump. (C1-10.2.1A)

#### ☐ Connection to Force Main

- ☐ Pressure service line shall be 1-1/4" HDPE SDR11 between grinder pump and check valve vault.
- ☐ Minimum pipeline velocity of 2 feet per second. (C1-10.1.4)
- ☐ Maintenance shut-off ball valve on discharge line at grinder pump.

##### Two check valves required. (C1-10.2.1A)

- ☐ Check valve #1: Installed at Grinder Pump. Can be installed on grinder pump.
- ☐ Check valve #2: Installed at property line. Check valve in vault per Standard Detail S12.
- ☐ Tapping saddle, 2" corp stop, resilient seat gate valve, and valve box at force main. (C1-10.2.1A)
- ☐ 2" HDPE SDR11 service line between forcemain and check valve vault.

#### ☐ Control Panel / Electrical Requirements

- ☐ Grinder pump UL Listed for use in raw sewage. (C1-10.2.2A)
- ☐ Pump control panel and level-sensing mechanism UL Listed for use in raw sewage (C1-10.2.2C)
- ☐ High level visual and audio alarm with battery backup. (C1-10.2.2C)
- ☐ Audio alarm capable of being silenced until repair can be made. (C1-10.2.2C)
- ☐ Power transfer switch with an emergency generator plug for vessels with less than 24 hours of storage (1000 gallons for single family residence). (C1-10.1.6D&E)
- ☐ Electrical components in compliance with National Electrical Code and state Labor and Industries Electrical Inspection Division. (C1-10.2.2D)

#### ☐ Ventilation

- ☐ Grinder pump storage tank shall have a separate vent system from structure plumbing. (C1-10.2.2E)

### DESIGNER/SUPPLIER CONTACT INFORMATION

Designer: \_\_\_\_\_ Phone: \_\_\_\_\_ Date: \_\_\_\_\_  
(print name)

Supplier: \_\_\_\_\_ Phone: \_\_\_\_\_  
(print name)