

CANTON MUNICIPAL UTILITIES

POLICY AND REQUIREMENTS FOR GRINDER PUMP UNITS

1. General

Customers served by a pressure sewer system, or properties where gravity sewer service is not practical due to topography, depth of existing sewer, distance from the public sewer, or other site constraints, shall install, own, operate, and maintain an approved wastewater grinder pump system. Canton Municipal Utilities (CMU) will evaluate reasonable alternatives, including gravity service, during the application process. Where CMU determines that gravity service or other practical alternatives are not feasible, a grinder pump system meeting the requirements of this policy shall be required.

2. Pumping Unit Specification

Grinder pumps shall be specifically designed for pressure sewer service and shall be capable of pumping untreated domestic wastewater while reducing solids to a size that will pass through the pressure sewer system.

The property owner shall be solely responsible for the design, hydraulic evaluation, pump selection, installation, operation, maintenance, and performance of the private grinder pump system. The owner shall evaluate all hydraulic conditions, including but not limited to total dynamic head, system operating pressure, friction losses, and all other factors affecting pump performance, and shall select equipment that is adequate for the proposed installation.

Hydraulic calculations and pump selection information shall be submitted to CMU for review prior to installation. CMU's review is solely for determining general compliance with its minimum standards and shall not constitute verification of the hydraulic analysis, certification of the design, approval of the pump's adequacy or performance, or acceptance of any engineering responsibility. CMU assumes no responsibility or liability for the design, hydraulic calculations, equipment selection, installation, operation, maintenance, or performance of the privately owned grinder pump system. The property owner shall remain solely responsible for all aspects of the system regardless of any review, comments, or approval provided by CMU.

Pump basins shall be constructed of non-corrosive fiberglass and shall have a minimum diameter of 24 inches for simplex units and 48 inches for duplex units, with a minimum depth of 60 inches unless otherwise approved by CMU.

3. Inspection and Testing

Prior to being placed into service, each grinder pump installation shall be inspected and operationally tested in the presence of a CMU representative.

4. Maintenance and Replacement

CMU shall be notified prior to replacement of any grinder pump system. Replacement equipment shall meet the requirements of this policy and shall be inspected prior to being returned to service.

If a grinder pump becomes inoperable, wastewater discharge shall cease immediately until repairs have been completed.

Missing or damaged tamper-proof tags may require reinspection and operational testing. Costs associated with additional inspections resulting from unauthorized removal or modification may be charged to property owner.

Attachments:

Attachment 1 – Residential Grinder Pump Installation details

END

CMU SEWER CONNECTION
OWNERSHIP AND MAINTENANCE TRANSFERS TO CMU
AT THE DOWNSTREAM SIDE OF THE CHECK VALVE

PUBLIC ROAD

DISCHARGE FORCE MAIN
(BY CUSTOMER)

PUMP STATION
CONTROL PANEL

HOME WASTEWATER
PLUMBING TO PUMPING
UNIT BY GRAVITY

GRINDER PUMPING UNIT

PUMPING UNIT AND 2" SEWAGE DISCHARGE
LINE BY OWNER. PUMPING UNIT ELECTRICAL
CONTROL PANEL CONNECTED TO HOME
ELECTRICAL SYSTEM

