

**KEUKA PARK SEWER DISTRICT
TOWN OF JERUSALEM
STANDARDS FOR CONNECTION TO FORCE MAIN OR PRESSURE SEWER**

SPEC B

Grinder pump:

- A grinder pump must be used to connect to a force main or pressure sewer.
- A centrifugal or semi-positive displacement grinder pump may be used to connect from the west (uphill) side of West Lake Road (KPSD 1) or in KPSD 3. This grinder pump must be capable of delivering 10 GPM at a TDH of 94’.
- On the lower east die of West Lake Road (KPSD 1), a semi-positive displacement progressive cavity grinder pump must be used. This pump must be capable of delivering 9 GPM against a TDH of 140’, minimum (KPSD 1)
- When available, owner should consider protecting pump with electrical protection device for low voltage dry run or high pressure.
- Pump tank shall be 36” diameter 150 gallon pre-cast concrete or a 24” diameter structural fiberglass or plastic basin providing 48” depth for the discharge line. Non concrete basins shall be protected against flotation by appropriate anti-flotation devices. A minimum of 0.6 CY of concrete shall be used on a case by case basis. The district will consider utilization of an existing concrete septic tank in good condition for the grinder pump installation.
- Corporation stop shall be 1 ¼” MPT X MPT brass for tapping the 8” DIP force main in KPSD and KPSD 1.
- Tapping saddle shall be 1 ¼” FPT X as required for connection existing low pressure sewers. Tapping saddles must utilize spring loaded washers.
- Tap shall be made by a district approved contractor.
- Two check valves are required with at least one in the pump tank.
- A corrosion resistant ¼ turn shut off valve shall be installed in the pump tank.
- Disconnect fitting shall be a union, compression type coupling or a pitless adapter for sewage.

Curb Stop/Check Valve Assembly:

- The curb stop check valve assembly shall be a factory assembled integral unit as manufactured by the lateral connection corporation or approved equal.
- The assembly shall be supported in the trench by a solid concrete support block.
- The curb stop check valve assembly shall be located in the right of way line unless otherwise approved by district personnel.
- The curb stop box shall be manufactured of ABS with enlarged “haunch” type base to protect the curb stop and connections from any direct vertical loading. The box shall have 36” ABS top and bottom sliding sections with an expansion range of 48” to 78”.
- The curb stop shall utilize a cast iron lid with the word “sewer” cast thereon.

Laterals:

- Pressure lateral shall be 1 ¼" DR 9 HPDE 200 PSI (IPS) solid black with green stripe. Pressure lateral shall be 48" deep minimum, bedded in sand or placed in a PVC sleeve. A tracer wire shall be placed adjacent to the pressure lateral or in the sleeve. The trace wire shall be brought up to the top of the pump tank or basin and secured in a manner so it is accessible for a locator connection. The tracer wire shall also be brought up through the curb stop and secured in a similar manner.
- Pressure laterals shall be at least 6' horizontal from any water service in a separate trench.
- In certain cases the district will consider adjacent neighbors sharing a pressure lateral; however each user will have his own pump and shut off valve so as to not interfere with the co-user. Ownership agreement must be approved by the town.

Requirements:

- The grinder pump must be on a dedicated circuit with AMP rating as called for by the manufacturer. The exterior mounted control panel shall house the alarm system on a separate electrical circuit for the pump; with a "high level" visual and audible alarm. The audible alarm shall have an external manual "alarm silence" feature. The control panel shall have an alarm test feature. All wiring shall meet the NEC code. Electric work must be inspected and approved by a certified electric inspector
- The contractor shall test the grinder pump installation in strict accordance with the manufactures installation instructions.
- The existing septic tank and dry well (if any) shall be emptied by a licensed septic tank pumping contractor and filled with sand or a suitable fill material in accordance with the KWIC regulations.
- No surface or ground water, catch basins, basement or foundation drains, floors drains, cooling water or gutters shall be connected to the system.
- These requirements and specifications represent the minimum requirements owners can exceed these requirements with approval of the Town Sewer Department Head.