



Sanitary Engineering Department

3230 N. Cole Street, Lima, Ohio 45801
Tel: (419) 996-4670 ♦ Fax: (419) 229-3297
Website: <http://www.allencountyohio.com/sanitary-engineering/>



LOW PRESSURE PUMP SYSTEM WHEN YOU NEED TO CALL FOR INSPECTIONS

1. Contractor/Plumber **MUST** meet with a representative from the Sanitary Engineering Department to discuss the location of the E-One
2. The E-One pump station must be inspected before it is backfilled. Call the Sanitary Engineering Department at least **24 hours prior** to when the inspection is needed.
3. Service lateral/force main must be inspected before backfill. Call the Sanitary Engineering Department at least **24 hours prior** to when the inspection is needed.
4. The E-One pump station electrical work must be inspected by the Sanitary Engineering Department. Call the Sanitary Engineering Department at least **24 hours prior** to when the inspection is needed.
5. The Sanitary Engineering Department will make the hot-tap on the low-pressure sewer main once the main is properly exposed. Call the Sanitary Engineering Department **48 hours prior** to when the hot-tap is needed. **Steps 1, 2, and 3 must be completed and inspected before our department will perform a hot-tap.**
6. The E-One pump station must be started up by the Sanitary Engineering Department after the electrical work is inspected and approved. Call the Sanitary Engineering Department at least **24 hours prior** to when the start-up is needed.

Additional Information

- A. We order the E-One pump when a permit is purchased and it typically takes 2 weeks before we receive it. The E-One pump may be picked up from ACSE Department between 7:30a.m. and 8:00a.m. Monday-Friday. Please call ahead so it will be ready for pickup.
- B. No work will be approved by the Sanitary Engineering Department without a permit being obtained from our office prior to any sanitary sewer related work being done.
- C. Final Grade Extension required (additional cost) should system final grade need adjusted.
- D. Service Agreement to be granted to ACSE Department by property owner for operation and maintenance of pump station and electrical. This must be signed by the property owners before pump station will be started-up.

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INSTALLATION REQUIREMENTS FOR LOW PRESSURE PUMP SYSTEM SERVING MULTIPLE FAMILY RESIDENCES/COMMERCIAL/INDUSTRIAL

See Drawing GPD 2.0

**E-One Pump Station purchased through ACSE Department at the time a permit is obtained.
Call 419-996-4670 for pricing information.**

1. When ordering, the Contractor to determine:
 - a. Depth of cover over 6" inlet sewer.
 - b. Lengths of type TC direct bury cable required between pump unit and alarm panel.
2. Items Included with Permit/Pump Purchase:
 - a. One of following E-One pumps or approved equal by ACSE Dept.:
 - DH 152-150 gallon tank capacity – 2 to 12 homes
 - DH 272-275 gallon tank capacity – 13 to 20 homes
 - DP 502-500 gallon tank capacity – 21 to 24 homes
 - 6" inlet for 6" Schedule 40 PVC pipe
 - 1 1/4" female NPT threaded outlet
 - b. Duplex MOD-260-1 alarm panel
 - c. 32' Type TC direct bury electric cable to service pumps
 - d. Service Lateral Kit for 1 1/4" SDR 11 HDPE Pipe Valve Box
 - e. Corporation stop w/corporation saddle provided by ACSE Dept.
3. Bill of Materials by Builder/Contractor:
 - a. 1 1/4" x 1 1/4" Stainless Steel bushings
 - b. 1 1/4" DR 11 HDPE (green stripe or solid green pipe) for discharge force main
 - c. Copperhead #12 solid green tracer wire installed with 1 1/4" force main between the pump and the pressure main.
4. Service lateral to be 6" Schedule 40 PVC or SDR 35 PVC
 - ASTM D 1785 – PVC Schedule 40 – pressure rated
 - ASTM D 2665 – PVC Drain, Waste and Vent Pipe
 - ASTM D 3034 – SDR 35 PVC
5. Electric service to be 240v / 1ph / 60 Hz to the pump location.
6. Builder/Contractor to contact Allen County Sanitary Engineering Department 48 hours before scheduling start-up pump start-up
 - a. Electrical work to be completed before pump start-up can be scheduled.
 - b. ACSE Dept. to initiate and complete the start-up of the pump installation.
7. Pump Start-up
 - a. Electrical work to be completed before pump start-up can be scheduled.
***Refer to diagram inside E-1 panel**
 - b. ACSE Department to initiate and complete the start-up of the pump installation.

