

Town of Newton, N.H.
2013 Dry Hydrant Project
Bid specifications

The Town of Newton, NH is soliciting bids for the installation of non pressurized hydrants (also known as “dry hydrants”). The scope of this bid will be the installation of dry hydrants at the following locations:

1. **Whittier Street** across from Willow Grove Cemetery. Includes removal of existing defective hydrant.
 2. **30 North Main Street** (known as Marden’s Pond).
 3. **10 Amesbury Road** - Access will be from Mary Mother Church Parking lot at 12 Amesbury Road.
- A. Required permits to install dry hydrants shall be obtained by the town of Newton.
- B. The location of each hydrant has been identified with a single surveyor’s stake with the locations address.
- C. There will be no PVC components or piping above ground.
- PVC piping shall be used beyond the first underground elbow terminating at the PVC strainer
- D. All exposed surfaces and all underground metal surfaces shall be protected to prevent deterioration.
- E. As a minimum, Schedule 40 pipe and component fitting shall be used.
- All piping, fittings and components shall be 6 inch.
- F. A minimum number of elbows shall be used in the piping system.
- G. Suction hose connection (s) shall be compatible with the fire departments hard suction hose size and shall conform to NFPA 1963, Standard for fire hose connections. The connection (s) shall include a protective cap. The cap and adapter shall be BRASS as to minimize rust and galvanic corrosion.

- Fire department connection shall be 6 inch male dry hydrant adapter with strainer and NH/NST cap and chain.
- H. All connections shall be clean, and the appropriate sealing materials shall be used according to manufacturer's specifications so as to ensure that all joints are air tight.
- I. Dry hydrant system piping shall be supported and/or stabilized using approved engineering design practices.
- J. Stabilization or equivalent protection shall be employed at elbows and other system stress points.
- K. 6 inch barrel strainer shall have a back flush cover.
- L. 6 inch barrel strainer shall be installed with holes facing upward.
- M. 6 inch barrel strainer shall be located not less than 2 feet from bottom of pond.
- N. 6 inch barrel strainer shall be installed with minimum 4 feet of water covering strainer.
- O. Prior to any covering or backfilling of pipe, a representative from the Newton Fire Department shall inspect each location to verify suitability.
- P. All horizontal piping will be placed on minimum 12 inch bed of $\frac{3}{4}$ inch crushed gravel
- Q. All horizontal piping will be covered with minimum 12 inches of $\frac{3}{4}$ inch crushed gravel prior to backfilling.
- R. Backfill material shall be suitable onsite material free from waste or large boulders.
- S. The fire department connection shall be installed 24 inches off the ground and shall be plumb.
- T. The fire department shall test each hydrant for air leaks prior to signing off.
- U. Two $\frac{1}{4}$ inch steel fire hydrant protection bollards shall be installed at each hydrant location. These shall be 4 1/2 inch in diameter and be exposed 4 feet. They shall be concrete filled. They shall be set to a depth of 4 feet in poured concrete of not less than 18 inches wide.

All waste and debris shall be removed by the contractor. The project areas shall be restored to “before project” condition, this shall include any needed grading, loaming and seeding required to achieve this objective.

Price for Location 1: \$_____ (Whittier Street)

Price for Location 2: \$_____ (30 North Main Street)

Price for Location 3: \$_____ (10 Amesbury Road)

Total price for all three Dry Hydrants: \$_____

Project shall be completed prior to October 1st, 2013

Bids must be received in the Town of Newton’s Selectmen’s Office PO Box 378, 2Town Hall Road Newton, NH 03858 no later than Monday, August 19th 2013 at 4 pm. Please contact Deputy John Owens with any questions at (603) 382-8811.