

TOWN OF ANDOVER



DEPARTMENT OF PUBLIC WORKS

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Andover, MA 01810
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MATERIAL SPECIFICATIONS – July 2021

SEWER:

8" SDR-35 PVC minimum for mains*

6" SDR-35 PVC minimum for services*

* use CLDI if approved with less than 3' of cover.

Sewer chimneys are to be Arrow Concrete Products double-seal sewer chimney and standard base or approved equal.

Sewer manholes are to be precast and coated with two coats of Hydrocide 648 by Sonneborn Building Products; Dehydratine 4 by A.C. Horn Inc.; RIW Marine Liquid by Toch Brothers or approved equal at a rate of 30 to 60 square feet per gallon.

Force mains shall be Class 52 cement lined ductile iron or PVC SDR-21.

Castings for SMH shall be East Jordan Iron Works #00211043C05, or approved equal.

DRAINAGE:

12" RCP minimum diameter

Castings for DMH and CB shall be East Jordan Iron Works #00211025C05 and #00552062C05, respectively, or approved equal.

WATER:

1" Type K Copper, minimum for new house services.

1 ½ - 2" service, Type K Copper in town right-of-way. Services greater than 40ft for 2", 60ft for 1 ½" may request for approval to install Blue CTS – HDPE tubing AWWA C901, with tracer wire on the homeowner's side. Services must transition back to copper 10' outside the dwelling and into building to meter location. All fittings before the water meter must be flared, threaded, or mechanical.

Water service boxes are to be buffalo style.

8" minimum for mains, 6" for hydrant branches less than 50', Class 52 cement lined ductile iron pipe conforming to AWWA C-151. Cement mortar lined and seal coated in accordance with ANSI AWWA C-104. Except the lining thickness shall be twice that specified in section 4.8.1.

Ductile iron fittings conforming to AWWA C-153

Hydrants shall be American-Darling B-62-B, or Mueller Super Centurion 250.

Hydrants open left, Valves open right.

Gate valves shall be full wall ductile iron body, bronze mounted, parallel seat, bronze double disk, non rising stem type, conforming to AWWA C-500 or resilient seat, ductile iron body type, conforming to AWWA C-509 / C-515 by American Flow Control, Mueller, or U.S. Pipe.

Valve boxes shall be cast iron, two-piece, sliding type with a top flange and a minimum inside diameter of 5 ¼". Boxes shall have the word "water" clearly cast into cover.

Full body mechanical tapping sleeve only, stainless steel tapping sleeves are not acceptable.

Retainer gland systems for mechanical joint pipe shall be "Megalug" as manufactured by EBAA Iron, or approved equal.

Mains must be restrained before and after fittings (bends, tees, etc.) according to restrained joint table (available from the Engineering Division). Restrained pipe is to be used or Griffin Field Lok Gasket System (or approved equal) with permission.

Chlorinated water shall be discharged in accordance with current AWWA C651 standards.

Hydrants shall be equipped with 3ft.Flex Stake FH, as manufactured by Flex-Stake, Fort Myers, FL 800-348-9839.

Hydrant Paint:

Rust-Oleum, Rust Preventative Industrial Alkyd Enamel
Safety Yellow, Safety Red, Safety Black
Factory painted or 2 coat minimum

Meters:

Neptune Pro-read with R 900 transmitter

5/8" – 1 ½": T-10, positive displacement (nutating disk) in a bronze housing with a straight readout in cubic feet, conforming to AWWA C-700.

2" to 8": Tru/Flo, compound type with a single, straight readout in cubic feet, conforming to AWWA C-702.