1. Precast Concrete Well Sections

When water main is placed in proposed roadbed area, it is
Existing edge or shoulder
Rubber boot (typ)
Back of curb or base section
Bedding under pipe to ground
Unstable clay
Corp stop (typ)
3" min MDOT 6A
3" to 6" concrete grade rings with finished
top and bottom
2. "D" = 6'-0" for 8" & 12" water main

4. All lifting holes shall be sealed

5. All structures must be 5-inch thick pre-cast concrete. A.S.T.M. C-478 approved, with 1/2-inch
cement plaster coat

6. Manhole steps are to be installed at the plant by the manufacturer of the structure. The
Manhole steps are to be 16 inches on center, made of polypropylene, and A.S.T.M. C-478 approved.
Steps are suitable material excavated and required spacing.

7. Water mains are to be placed level through all structures and valves.

8. All valves are to rotate clockwise to open and have a red operating nut. 6-inch through 12-inch
valves specified. Vertical fittings are to be mechanically fashioned.

9. All horizontal and vertical valve seats require the use of "T" shaped seat inserts and thrust blocking
flanges specified. Vertical fittings are to be mechanically fashioned.

10. All horizontal and vertical valves are to be observed under line pressure to assure water tight fit.

11. For water service leads, no joints or unions will be permitted under existing or proposed
structures (see "gatewell, valve, and tapping sleeve" note #6).

12. During construction, any angle points or bends are to be marked at grade level with 2-inch by
4-inch peg. Pegs are to be observed under line pressure to assure water tight fit.

13. When boring and locating the contractor must notify the existing utility companies to verify
locations.

14. Approved backflow prevention must be used when making temporary connections to the
existing system.

Water main standard details

Water main construction shall conform to the current standards and general specifications of
the Michigan Department of Transportation and City of Detroit water and sewer department.

1. All work within the Wayne County Road Right of Way shall conform to Wayne County general
notes only.

2. Only Canton Township water department personnel, and authorized to operate valves on the
water main as indicated on the plans.

3. Water main will be backfilled in excavated areas. Ballast may be installed as required by the
water authority as indicated on the plans.

4. A 6-foot minimum and 10-foot maximum cover will be required at all locations unless approved
by the Canton Township Engineer.

5. Special core cut in side walls and excavating for any proposed structures. All excavations are to be
backfilled with suitably crushed material and compacted to a density of 95%.

6. All valves are to rotate clockwise to open and have a red operating nut. 6-inch through 12-inch
valves specified. Vertical fittings are to be mechanically fashioned.

7. Water mains will be disinfected and sampled in accordance with AWWA C651.

8. All joints not subjected to hydrostatic test shall be tested in accordance with AWWA C551.

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