

ASPHALT CURB & PAVEMENT DETAIL

CONCRETE CURB DETAIL

NOT TO SCALE

A DETAIL SHEET FOR DAIRY QUEEN

3-17-04

REVISIONS: 4-22-04 Per City Comments

03-12276A

INSTALLATION OF WATER MAINS

"ALWAYS KEEP THE WATER MAIN ON EASEMENT"

- 1. Water main should be located 5' behind the curb, as not to interfere with other utility
- All water mains should be 8 inches in diameter, the last 300' can be 6" diameter pipe. The pipe should have a Minimum Pressure Rating (PR) of 200 or SDR-21. All water mains of PVC materials shall be certified by NSF (National Sanitation Foundation) and listed in NSF Standard 61 (certified drinking water system components). Missouri DNR requires that any product which comes in contact with drinking water be listed in NSF Standard 61. If the pipe is NSF certified, it will have a stamp on the pipe that says "NSF-pw".
- 3. Fire hydrants must be Mueller Steamer Centurion and painted yellow in color and all valves must be Mueller mechanical joint resilient wedge gate valve.
- 4. All fire hydrants are to have valves flanged to the tee and (with a total length of 38" or less) hydrant swivel anchored to the valve. Clean 1" rock should be used to backfill above the weep holes of the fire hydrant.
- 5. The contractor shall place all fire hydrants between 1.5 (1-1/2) feet and three feet (3')
- 6. These water bends (45 degree, 22-1/2 degree, 11-1/4 degree), are to be made with mechanical joint fittings using mega lugs. Ninety degree (90°) bends are not allowed. The first slip joint, up and down stream after fittings, should be restrained per pipe manufacturer
- 7. Tees, 4—ways, etc. shall have concrete blocking. Concrete not to be on nuts or bolts.
- 8. Rocky soils shall require bedding 6" under and 6" over water pipe.
- 9. Concrete encasement require; to DNR Specification, when crossing storm or sanitary sewers. Sanitary: vertical is 18", horizontal is 10' Storm: vertical is 12", horizontal is 3'.
- 10. Must use appropriate sized casings when crossing streets.
- 11. Must attach coated solid core, 12 gauge tracer wire, taped to the top of the pipe. All wire must run up the outside of the valve box and come up inside the valve box under the water
- 12. Use 3M waterproof splice kits for all splicing of tracer wire.
- 13. Any project with over 1500' of pipe should use the 2500' role of tracer wire to eliminate
- 14. A chlorine test is required. It must initially test at 25 PPM, or greater, and 24 hours later 10 PPM must be present. It must be tested by a City Inspector, and have 24 hours notice prior to that inspection. The main will be tested for CL2 every 1,200' of pipe.
- 16. The contractor will meter water and pay for it. Hydrant meters are at Public Works and
- 18. Final Pressure Test: The water main must be pumped up to 125 PSI and maintain this pressure for one hour without any drop in pressure.
- 19. Gas, water, and other underground utilities shall not conflict with the depth or horizontal
- 20. All waterline construction shall conform to current City of O'Fallon Standards and
- 21. The contractor shall place the "steamer" outlet of the fire hydrant toward the street.
- 23. All creek crossings will require ductile iron pipe. If less than 3' of cover, concrete

- record plat for location size, and width of easements.
- 26. The City of O'Fallon Water Department shall be notified at least 48 hours prior to construction of water mains for coordination and inspections.
- 27. All open mains should be properly capped when the main is unattended for more than
- 28. All bore casings, except service lines, shall have a casing spacer every 10'.
- 29. All service lines under the streets are to have a 2" PVC casing installed, at a minimum

NOTE: 24 HOUR NOTICE REQUIRED ON ALL INSPECTIONS

NOT TO SCALE

O'FALLON FILE #010