

1. GATE VALVES AND BUTTERFLY VALVES SHALL NOT BE OVER 1000 FT APART FOR LINES 12" AND LARGER.
2. GATE VALVES SIXTEEN (16) INCHES AND LARGER SHALL BE PLACED IN A VAULT.
3. MINIMUM COVER FOR WATER LINES:
 4" thru 12" - 4 FT COVER (5 FT UNIMPROVED)
 14" THRU 18" - 5 FT COVER (6 FT UNIMPROVED)
 20" AND LARGER - 6 FT COVER (7 FT UNIMPROVED)
4. THE MINIMUM WATER MAIN SIZE SHALL BE 8" IN RESIDENTIAL (LARGER LINE SIZE MAY BE REQUIRED BY THE COMPREHENSIVE PLAN, WATER MASTER PLAN, OR TO MEET FIRE PROTECTION NEEDS AS DETERMINED BY THE CITY ENGINEER) .
5. THERE SHALL BE A MINIMUM OF A FIFTEEN (15) FOOT EASEMENT FOR WATER LINES.
6. THE MINIMUM RESIDENTIAL WATER SERVICE LINE SHALL BE ONE INCH (1") POLY PIPE (SDR 9) , AND SHALL BE INSTALLED BEHIND BACK OF CURB IN PARKWAY AWAY FROM DRIVEWAYS.
7. DEAD END MAINS SHALL NOT EXCEED SIX HUNDRED FEET (600') . PROVISIONS SHALL BE PROVIDED FOR FLUSHING DEAD END MAINS WITH A FIRE HYDRANT OR AUTO-FLUSH VALVE PLACED NEAR THE TERMINAL END OF THE LINE.
8. TRACER TAPE SHALL BE INSTALLED ALONG THE TOP CENTERLINE OF ALL NON-METALLIC WATER PIPES A MINIMUM OF TWO FEET ABOVE THE TOP OF PIPE AND SHALL BE DETECTABLE PER MANUFACTURER SPECIFICATIONS BY A METAL DETECTION DEVICE AT THE INSTALLED DEPTH. THE TAPE IS TO CONSIST OF A METAL STRIP COATED WITH A CORROSION RESISTANT SUBSTANCE AND SHALL BE AT LEAST 2" WIDE. TRACER TAPE SHALL ALSO BE PLACED ABOVE SERVICE LINES THAT CROSS THE STREET.
9. A MAXIMUM OF 6 FEET BURY IS ALLOWED FOR FIRE HYDRANTS.
10. REDUCED SIZE DETECTOR VALVES WILL NOT BE ALLOWED.
11. ONLY 5 1/4" WATEROUS PACER FIRE HYDRANT WITH SAFETY FLANGE WILL BE ALLOWED FOR STANDARD HYDRANTS. FIRE HYDRANTS WITH TWO PUMPER NOZZLES SHALL MEET REQUIREMENTS IN STANDARD DRAWING 4120CM AND 4120DM.
12. ALL FIRE HYDRANT LEADS SHALL CONTAIN A GATE VALVE THAT IS WITHIN 2'-5' OF THE HYDRANT.
13. FIRE HYDRANT MARKERS SHALL CONSIST OF A 4" BY 4" BLUE REFLECTOR PAVEMENT MARKER INSTALLED OPPOSITE EACH FIRE HYDRANT ON ALL STREETS' CENTER LINE.
14. MINIMUM 6" WATER LINES SHALL BE PROVIDED UP TO 25 FT OF FIRE HYDRANTS; OTHERWISE 8" OR LARGER MUST BE USED.
15. ALL WATER LINES SHALL MEET THE REQUIREMENTS OF AWWA AND NCTCOG UNDER THE FOLLOWING SPECIFICATIONS:
 - 8" THRU 12" : C900 DR 18 - PVC
 - 14" AND LARGER : AWWA C301 & C303 - REINFORCED CONCRETE CYLINDER PIPE
 : AWWA C905 - PVC - DR 18
 : AWWA C151 - DUCTILE IRON PIPE - THICKNESS CLASS 50
16. ALL FEEDER MAINS SHALL BE LOOPED AND ALL OTHER WATER LINES IN EXCESS OF 600' IN LENGTH SHALL BE LOOPED.
17. ALL WATER LINE FITTINGS SHALL BE DUCTILE IRON PER AWWA C110 OR AWWA C153 WITH CORROSION RESISTANT BOLTS/NUTS PER ASTM A325.
18. ALL GATE VALVES SHALL MEET THE REQUIREMENTS OF AWWA C509 AND NCTCOG 502.6.2. GATE VALVES SHALL INCLUDE VALVE BOXES PER STANDARD DRAWING 4050M AND DEBRIS CAPS/PLUGS PER STANDARD DRAWING 4051M. VALVES SHALL BE FURNISHED WITH EXTENSIONS TO 1' BELOW GRADE AT LOCATIONS WHERE THE VALVE OPERATING NUT IS MORE THAN 3' BELOW GRADE.
19. ALL VALVES, FIRE HYDRANTS, AND FITTINGS SHALL BE INSTALLED WITH ADEQUATE THRUST BLOCKING OR MECHANICAL JOINT RESTRAINT IN ACCORDANCE WITH THE CITY OF MELISSA STANDARD CONSTRUCTION DETAILS. POLYETHYLENE WRAPPING SHALL PRECEDE BLOCKING OR RESTRAINT. ALL JOINT RESTRAINTS SHALL BE MEGALUG OR APPROVED EQUIVALENT.
20. THE CITY ENGINEER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE INSTALLATION OF ANY AND ALL WATER IMPROVEMENTS.
21. DENSITY TESTING FOR UTILITY BACKFILL SHALL BE PERFORMED PER TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF STREETS, HIGHWAYS, AND BRIDGES ITEM 132.

M* - CITY OF MELISSA REVISION

NCTCOG STANDARD SPECIFICATION REFERENCE



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GENERAL CONSTRUCTION WATER NOTES

MODIFIED DATE	STANDARD DRAWING NO.
03/25/19	4001M*

CITY OF MELISSA, TEXAS

NOTICE DATE	ADOPTED DATE	ENFORCEMENT DATE
03/27/19	03/27/19	04/27/19