

## MESA WATER DISTRICT STANDARD WATER CONSTRUCTION NOTES

1. Engineering Plan Check/Inspection Fee and Performance Guarantee Bond shall be paid and Application/Permit (A.P.) completed by the applicant prior to the approval of the plans and issuance of the A.P. Fees shall be in accordance with Mesa Water rates and deposit schedule.
2. Capacity Charges shall be collected by Mesa Water at the time other fees are collected prior to approval of plans and service agreement. This fee shall be in accordance with Mesa Water rates and deposit schedule.
3. Water mains will be installed according to the latest Standards and Specifications of Mesa Water.
4. Contractor to have, on the job site, a copy of the latest Standard Specifications at all times.
5. Contractor shall schedule inspections a minimum of 24 hours in advance and in accordance with the Inspection Checklist requirements. To schedule and inspection, call (949) 207-5518.
6. A cash Performance Guarantee Bond shall be held one year after Mesa Water's Notice of Completion to guarantee work performed by the Contractor.
7. Separation between sanitary sewer and water mains shall be a minimum of 10' HORIZONTAL, 1' VERTICAL (above sewer)
8. A 15' water main easement will be granted to Mesa Water® for maintenance purposes, 5' for water services (7.5' each side of main; 2.5' each side of service). Easement documents are to be submitted to Mesa Water for approval prior to a permit being issued.
9. Service laterals will be set to grade by Contractor prior to the installation of water meters and boxes (per Mesa Water's Standard Drawings #1, #2 and #3).
10. Water meter will not be installed nor water turned on until the backflow devices required for the building and irrigation systems have been installed, tested, approved, and certified. Contact Cross Connection Control at 949-631-1291.
11. Protect existing utilities in place.
12. Water mains shall have 42" minimum cover to finish grade.
13. Raise existing water valve covers to grade (per Mesa Water Standard Drawing #14).
14. Install fire hydrant per Mesa Water Standard Drawing #4 or #4B.
15. Install blow-off per Mesa Water Standard Drawing #9.
16. Water mains will be tested at 225 p.s.i. for four hours.
17. Backfill material in pipe zone will have a sand equivalent of 30 or greater.
18. The backfill above the pipe zone will be compacted per Mesa Water Standard Drawing #18, and be in compliance with City of Costa Mesa Standard Drawing 813.
19. Chip 2" "W" in curb face to identify water service location.
20. Install thrust or gravity blocks per Mesa Water Standard Drawing #11 or #12.
21. Contractor to verify depth and location of all utilities prior to trenching.
22. Contractor to install temporary taps for testing and chlorination prior to connecting to existing mains.
23. Contractor to return all equipment removed to Mesa Water yard, and dispose of other material (i.e., A.C.P. broken concrete and native soil, etc.) at contractor's expense.
24. Water meters and boxes to be installed by Mesa Water but paid for by applicant/owner.
25. A reduced pressure principle assembly shall be required on all water metered services to any condominium unit over two stories or five or more units on one metered service. Contact Cross Connection Control at 949-631-1291.
26. Irrigation meters shall require a reduced pressure principle assembly.
27. In landscaped areas, no trees shall be located in Mesa Water easement or within 7.5' of any Mesa Water facility.
28. A reduced pressure principle assembly shall be required on metered water services to all industrial buildings.
29. A double check detector assembly with combination flow meter will be required on fire line services, per Standard 22A.
30. Fireline services shall not be turned on until the Mesa Water Engineering Department has received a letter from the owner, or owner's authorized agent, requesting it and stating that the plumbing is ready for the fireline to be turned on. The letter must also contain Mesa Water's file number, size and serial number of the device, and job address.
31. If a 13D sprinkler system is not a flow through system, then a testable backflow device next to building shall be installed. Mesa Water® Inspector to verify flow through systems. Mesa Water® Inspector shall verify flow through 13D fire sprinkler systems by:
  - Turning off house valve
  - Checking for flow on flow though connection (i.e., toilet or sink)

**“ADD ALL NOTES TO PLANS”**