

**CITY OF SAN JUAN CAPISTRANO**  
**UTILITIES ENGINEERING**  
**STANDARD WATER IMPROVEMENT NOTES**

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1. THE WATER SYSTEM IS TO BE INSTALLED BY THE APPLICANT. ALL WATER SYSTEM WORK SHALL CONFORM TO THE CITY’S “STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF DOMESTIC WATER AND NON-DOMESTIC WATER IRRIGATION FACILITIES,” AS LAST REVISED AND CITY’S MUNICIPAL CODES.
2. THE CITY’S WATER CONSTRUCTION INSPECTOR (MIKE SMITH) SHALL BE CALLED FOR INSPECTION TWO WORKING DAYS BEFORE START OF WORK AT (949) 487-4311.
3. A PRECONSTRUCTION CONFERENCE OF REPRESENTATIVES FROM AFFECTED AGENCIES AND THE CONTRACTOR SHALL BE HELD ON THE JOB SITE 24 HOURS PRIOR TO START OF WORK.
4. THE WATER SYSTEM IS TO BE INSTALLED AFTER CURB AND GUTTER IS PLACED, OR STAKED BY THE APPLICANT’S SURVEYOR AT A MINIMUM 50-FOOT STATIONING, IF NOT WITHIN A ROADWAY.
5. ANY WATER SERVICE FOUND TO BE WITHIN A DRIVEWAY OR SIDEWALK SHALL BE REMOVED COMPLETELY AND REINSTALLED AT THE PROPER LOCATION, AT NO COST TO THE CITY.
6. ALL MAIN LINE VALVES SHALL BE MAINTAINED SO AS TO BE ACCESSIBLE DURING TRACT DEVELOPMENT, AND ALL VALVE STEM TOPS HAVING OVER 48 INCHES OF COVER WILL REQUIRE AN EXTENSION AS PER DRAWING W-9.
7. THE CLEARANCES FROM THE TOP OF THE PIPE AND THE FINISHED STREET SURFACE SHALL HAVE A MINIMUM AS FOLLOWS – UNLESS OTHERWISE NOTED ON THE APPROVED PLANS:

WATER MAIN SIZE	SURFACE STREETS	STATE HIGHWAY
6 INCHES & SMALLER	36 INCHES	48 INCHES
8 INCHES	42 INCHES	48 INCHES
12 INCHES	48 INCHES	54 INCHES
16 INCHES	54 INCHES	60 INCHES

ALL WATER MAINS GREATER THAN 16 INCHES SHALL BE DECIDED ON A CASE BY CASE BASIS. PIPE SHALL BE BEDDED AND BACKFILLED PER CITY STANDARD W-8.

8. ALL FIRE HYDRANTS SHALL BE SET WITH THE BOTTOM FLANGE 4 INCHES ABOVE THE CONCRETE PAD OR SIDEWALK.
9. ALL WATER MAINS 4” THROUGH 12” SHALL BE PRESSURE CLASS 305, PVC (C900-07) AND FOR 14” AND LARGER SHALL BE DR 18, PVC (C905-97) UNLESS OTHERWISE NOTED.

10. NO TAPS OR OTHER CONNECTIONS SHALL BE MADE TO EXISTING CITY WATER MAINS PRIOR TO CONDUCTING AN APPROVED PRESSURE TEST ON THE NEW WATER DISTRIBUTION SYSTEM. TAPPING SLEEVES SHALL BE PRESSURE TESTED IN AN APPROVED MANNER, IN THE FIELD, IN THE PRESENCE OF THE CITY WATER & SEWER CONSTRUCTION INSPECTOR, PRIOR TO TAPPING THE MAIN LINE. TAPPING OF THE MAIN LINE SHALL NOT PROCEED UNLESS THE CITY INSPECTOR IS PRESENT.
11. METERS AND WATER SHALL BE LOCATED IN SIDEWALK PER CITY WATER STANDARD SPECIFICATIONS AND STANDARD NOS. W-1 AND W-2.
12. THE APPLICANT SHALL FURNISH AND INSTALL THE SERVICE CONNECTIONS BETWEEN WATER MAINS AND METER AND FURNISH / INSTALL METER BOXES. CITY UTILITIES WILL FURNISH 1-INCH AND 2-INCH METERS TO APPLICANT TO INSTALL. METERS LARGER THAN 2-INCH SHALL BE FURNISHED AND INSTALLED BY APPLICANT.
13. CURBS SHALL BE INSCRIBED WITH A "W" INDICATING LOCATIONS OF ALL DOMESTIC WATER SERVICES AND "RW" INDICATING LOCATIONS OF NON-POTABLE/RECYCLED WATER SERVICES.
14. INDIVIDUAL PRESSURE REGULATORS WILL BE REQUIRED BY THE PLUMBING CODES OF THE CITY HAVING JURISDICTION IF STATIC PRESSURE REACHED 80 PSI OR MORE.
15. ALL 5/8" THROUGH 2" METERS AND CUSTOMER SERVICE VALVES WILL BE FURNISHED BY THE CITY FOLLOWING RECEIPT OF APPLICATION AND DEPOSIT. THE CONTRACTOR SHALL EXPOSE ALL ANGLE METER STOPS AND PROPERLY LOCATE THE METER BOXES TO GRADE AND INSTALL THE METER PRIOR TO REQUESTING FOR INSPECTION AND APPROVAL OF THE METER INSTALLATION BY THE CITY WATER INSPECTOR.
16. ANY CITY WATER USED SHALL BE METERED WITH A CONSTRUCTION METER OBTAINED FROM THE CITY. THE USE OF JUMPERS **IS NOT** ALLOWED. METERS MUST BE INSTALLED PRIOR TO OCCUPANCY OF A DWELLING.
17. AN ENCROACHMENT PERMIT FROM THE CITY HAVING JURISDICTION IS REQUIRED PRIOR TO ANY WORK WITHIN PUBLIC RIGHT-OF-WAY OR EASEMENT.
18. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. APPROVAL OF THESE PLANS BY THE CITY OF SAN JUAN CAPISTRANO DOES NOT GUARANTEE THE ACCURACY, COMPLETENESS, LOCATION, OR THE EXISTENCE OR NON-EXISTENCE OF ANY UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR IS REQUIRED TO TAKE ALL DUE PRECAUTIONARY MEANS NECESSARY TO PROTECT THOSE UTILITY LINES SHOWN AND NOT SHOWN ON THESE PLANS.
19. ALL BELOW GRADE BOLTS AND NUTS SHALL BE STAINLESS STEEL 316 WITH FLUOROPOLYMER (TRIPAC 2000 OR EQUAL COATED NUTS).

20. A BACKFLOW PREVENTION ASSEMBLY IS REQUIRED TO BE INSTALLED FOR ALL COMMERCIAL DOMESTIC WATER AND IRRIGATION METERS. INSTALLATION OF A BACKFLOW PREVENTION DEVICE FOR A RESIDENTIAL WATER METER WILL BE REVIEWED AND DETERMINED ON A CASE BY CASE BASIS.
21. ONLY BACKFLOW PREVENTION ASSEMBLIES ON THE APPROVED LIST OF USC FOUNDATION FOR CROSS-CONNECTION CONTROL WILL BE ACCEPTABLE.
22. LOCATION OF A REQUIRED BACKFLOW PREVENTION ASSEMBLY SHALL BE INSPECTED AND APPROVED BY THE UTILITIES WATER QUALITY-CROSS CONNECTION CONTROL SPECIALIST PRIOR TO INSTALLATION OF THE DEVICE. BACKFLOW SHALL BE TESTED BY AN ORANGE COUNTY CERTIFIED TESTER AND A COPY OF CERTIFIED TEST RESULT SHALL BE SUBMITTED TO THE UTILITIES WATER QUALITY DIVISION PRIOR TO APPROVAL OF CERTIFICATE OF OCCUPANCY OR AT THE START OF WATER USAGE WHICHEVER COMES FIRST. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL CONTACT UTILITIES AT 949-443-6398 FOR INSPECTION AND REQUIREMENTS PER CITY ORDINANCE NO. 895 – BACKFLOW AND CROSS-CONNECTIONS (TITLE 6).
23. CONTRACTOR SHALL OBTAIN WATER SERVICE APPLICATION FORM FROM THE CITY UTILITIES ENGINEERING TO COMPLETE AND SUBMIT TO THE UTILITIES DEPARTMENT FOR PROCESS TO SET UP A CUSTOMER SERVICE ACCOUNT AND ENTER THE BACKFLOW PREVENTER DEVICE IN TO THE UTILITIES WATER QUALITY BACKFLOW PROGRAM FOR REQUIRED ANNUAL BACKFLOW TEST REPORT FROM THE ACCOUNT OWNER.