

**ACWWA NOTES - SEWER**

1. AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING WILL BE HELD AT THE OFFICE OF THE AUTHORITY AND ATTENDED BY THE CONTRACTOR AND REPRESENTATIVES OF OTHER APPROVING AGENCIES. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE AUTHORITY.
2. ALL MATERIALS, CONSTRUCTION, AND TESTS SHALL BE IN ACCORDANCE WITH THE AUTHORITY REGULATIONS AND SPECIFICATIONS.
3. ALL WORK SHALL BE INSPECTED AND APPROVED BY PERSONNEL OF THE AUTHORITY. THE CONTRACTOR SHALL NOTIFY THE AUTHORITY'S INSPECTOR (303-790-4830) AT LEAST TWO (2) FULL BUSINESS DAYS PRIOR TO THE START OF CONSTRUCTION. ALL WORK SHALL BE INSPECTED AND APPROVED BY AUTHORITY PERSONNEL AND/OR AUTHORITY REPRESENTATIVES.
4. THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS WHICH HAVE BEEN APPROVED BY THE AUTHORITY.
5. SANITARY SEWER MAINS SHALL BE POLYVINYL CHLORIDE (PVC) MANUFACTURED IN ACCORDANCE WITH ASTM D-3034, SDR 35, AS MANUFACTURED BY CERTAINTEED, J-M MANUFACTURING, VINYL-TECH, ETI, INC, OR AUTHORITY APPROVED EQUAL.
6. SEWER LINES SHALL BE INSTALLED TEN FEET WEST OF THE CENTERLINE OF THE STREET UNLESS OTHERWISE DESIGNATED ON THE PLANS. SEWER LINES SHALL BE TEN FEET FROM WATER MAINS EXCEPT WHEN CROSSING EACH OTHER. SEWER LINES WHICH CROSS LESS THAN 1.5 FEET VERTICALLY BELOW THE WATER LINE SHALL BE DUCTILE IRON PIPE AND EXTEND TEN (10) FEET ON EITHER SIDE OF THE WATER MAIN. THE JOINTS OF THE PIPE SHALL BE ENCASED IN SIX (6) INCHES OF CONCRETE.
7. ALL PIPES ARE MEASURED HORIZONTALLY FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.
8. AT ALL POINTS OF CONNECTION OF SANITARY SEWER MAINS TO EXISTING MAINS, THE CONTRACTOR WILL BE RESPONSIBLE FOR EXCAVATING AND VERIFYING LOCATION OF THE EXISTING LINES PRIOR TO THE INSTALLATION OF ANY NEW CONSTRUCTION. IF IT IS NECESSARY TO SHUT DOWN ANY PORTIONS OF THE EXISTING SYSTEM TO MAKE SUCH A CONNECTION, THE CONTRACTOR SHALL NOTIFY THE AUTHORITY AT LEAST TWO (2) FULL BUSINESS DAYS PRIOR TO SUCH OUTAGE. IF TYING INTO AN EXISTING MANHOLE THE NEAREST PROPOSED MANHOLE TO THE POINT OF TIE IN SHALL BE PLUGGED WITH A PLUMBERS PLUG ON THE OUTLET SIDE BY THE CONTRACTOR. THE PLUG SHALL REMAIN IN PLACE UNTIL ACCEPTANCE BY THE AUTHORITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PUMPING AND CLEANING THESE MANHOLES AND REMOVING THE PLUG WHEN INSTRUCTED BY THE AUTHORITY. IF TYING INTO AN EXISTING LINE WITH A NEW MANHOLE THE EXISTING PIPE AT THE POINT OF CONNECTION SHALL NOT BE BROKEN OUT UNTIL DIRECTED TO DO SO BY THE AUTHORITY.
9. ALL MANHOLES SHALL BE 48 INCHES IN DIAMETER WITH 24-INCH RING AND COVER AND ECCENTRIC CONE UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL TAKE CARE TO PROPERLY SHAPE ALL MANHOLE INVERTS AND BENCHES TO PROMOTE SMOOTH FLOW THROUGH THE MANHOLE. MANHOLE INVERTS SHALL BE CONSTRUCTED WITH A SMOOTH TROWEL FINISH, AND BENCHES FINISHED WITH A LIGHT BROOM, NON-SKID FINISH.



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10. WYES ARE REQUIRED AT ALL SERVICE TO MAIN CONNECTIONS. SEWER WYES SHALL BE STAKED BY A SURVEY CREW AND FURNISHED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH TO THE ENGINEER "AS CONSTRUCTED" LOCATION OF THE WYES. SERVICE LINES SHALL BE STUBBED TEN FEET BEYOND THE RIGHT-OF-WAY AND PLUGGED. STATIONS ON SEWER SERVICES ARE UPSTREAM FROM THE NEAREST MANHOLE.
11. ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI.
12. ALL REINFORCING STEEL SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF ASTM A-15, INTERMEDIATE GRADE.
13. ALL BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY. COMPACTION TEST REPORTS MUST BE SUBMITTED TO THE AUTHORITY PRIOR TO PROBATIONARY ACCEPTANCE.
14. THE BEDDING MATERIAL SHALL BE CLEAN WELL GRADED SQUEEGEE SAND AND SHALL CONFORM TO THE FOLLOWING LIMITS WHEN TESTED BY MEANS OF LABORATORY SIEVES:

<u>SIEVE SIZE</u>	<u>TOTAL PERCENT PASSING BY WEIGHT</u>
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3/8 INCH	100
NO. 200	0 – 5

15. ALL SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH THE AUTHORITY'S STANDARDS PRIOR TO ACCEPTANCE OR ANY CONNECTION TO AN EXISTING SEWER LINE.
16. SEWER RIM ELEVATIONS ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. THE PIPELINE CONTRACTOR SHALL ADJUST MANHOLE ELEVATION TO MATCH FINAL PAVEMENT ELEVATION. CONCRETE RINGS WILL BE USED (MAXIMUM RING HEIGHT OF 18") TO MAKE ADJUSTMENTS WHERE APPROVED BY THE AUTHORITY.