



WCID 17 CONSTRUCTION NOTES

1. At the current time of bidding, WCID 17 uses amended City of Austin standard specifications for construction and shall govern material and methods used to do this work.
2. Contractor must obtain a street cut permit from Travis County Transportation & Natural Resources Department before beginning construction within the right-of-way of a public street, alley, or easement.
3. At least 48 hours before beginning any water construction in public R.W.W. or public easement, the contractor shall notify Travis County Transportation & Natural Resources inspection division, WCID 17 and the City of Lakeway for main line construction and for utility taps inspection. Contact WCID 17 (48) hours prior to connecting to existing lines.
4. The contractor shall contact the Austin area "One Call" system at 1-800-344-8377 for existing utility locations at least 48 hours prior to beginning any excavation. In advance of construction, the contractor shall verify the locations of all utilities to be tied to, or altered, or subject to damage/inconvenience by the construction operations. (Note: "One Call" does not take care of all utility locations.)
5. No other utility service/appurtenances shall be placed near the property line, or other assigned location designated for water utility service that would interfere with the water services.
6. The city specification item 509 will be required as a minimum trench safety measure contract documents which include a trench safety plan and a pay item for trench safety measures, in compliance with Texas House Bill 1569, must be received by Travis County Transportation & Natural Resources Department. Contact administration officer before beginning work on the project.
7. All materials test, including soil density tests and related soil analysis, shall be accomplished by an independent laboratory funded by the developer in accordance with city standard specification item 1804.04.
8. Pressure taps shall be in accordance with city standard specification item 510.3(24) (as adopted by WCID 17.) The contractor shall do all excavation, etc. and shall furnish, install, and air test the sleeves and valve. If a private contractor makes the tap a WCID 17, and an inspector must be present. With two (2) working days (minimum) notice WCID 17 crews can make taps up to two (2) inches, at the contractor's expense; fiscal arrangements must be made in advance at the office. "Size on Size" taps will not be permitted, unless made by use of an approved heavy duty MJ ductile iron tapping sleeve. Concrete blocking shall be

placed behind and under all tap sleeves 24 hours prior to making the wet tap. (200 PSI for 10 minutes and 150 PSI for 1 hour)

9. Thrust restraint shall be in accordance with city standard specification item 510.3(22). Restrained joints to be in accordance with AWWA No. A9, Chapter 7, for a test pressure of 200 PSI and a coefficient of friction of 0.3.
- A. Concrete steel cylinder pipe use tie joints in accordance with AWWA No. M9, Chapter 7, for a test pressure of 200 PSI and a coefficient of friction of 0.3.
 - B. Ductile iron pipe: Joints shall be restrained the required length in accordance with the third edition of thrust restraint design of ductile iron pipe research association for a test pressure of 200 PSI restrained joints shall be the American Flex-Ring joint or equal.
10. Dependant on location, fire hydrants north-east of Mansfield Dam shall be set in accordance with the City of Austin standard specification item 511.4(2). Those located south-west of Mansfield Dam shall follow the National Standard Thread with steamer connector of four and one-half inches (4.5"). Colors – the bases shall be painted silver and the bolt and caps shall be painted the designated color per the gallon per minute (GPM) as follows:
- | | | |
|----------|-----------------|--------------------|
| Class AA | Light Blue | 1500 or Higher GPM |
| Class A | Green | 100-1499 GPM |
| Class B | Orange | 500-999 GPM |
| Class C | Red | Less than 500 GPM |
| Class D | Black or Bagged | Out of Service |
11. Water line testing and sterilization shall be performed in accordance with City of Austin standard specification items 510.3(27)-(29) as adopted by WCID 17. Any fittings, valves or other appurtenances necessary for testing or sterilization of utility lines shall be provided by the contractor at no additional cost to the owner.
12. All mains shall have a maximum 48 inches of cover from finished grade to top of pipe unless otherwise noted on the plans.
13. Manhole frames and covers and water valves shall be raised to finish pavement grade at the contractor's expense prior to final construction.
14. All ductile iron pipe and fittings to be wrapped with minimum 8 Mil. polyethylene.
15. All pipes shall be marked with magnetic tape for ease of identification. (See standards details for water appurtenances.)
16. If operating nut is deeper than 36", an extension must be added to bring the nut within 24" of finished grade of proposed valves. This work shall be subsidiary to valve pay item.

17. Contractor to mark location of valves outside of pavement area. Verify with WCID 17 on what type of marks.
18. Prior to beginning any construction, a City of Lakeway utility development permit and Travis County permit shall be posted on the job site, if in Lakeway.
19. Prior to any construction, the temporary erosion control items shall be in place.
20. Contractor shall keep WCID 17 current on status of each stage of construction activity.
21. WCID 17 approval is required on all work completed.
22. Either ductile iron pipe or concrete steel cylinder pipe (C-30) may be used at contractor's option.
23. Deflection at pipe joints of half of manufacturer's recommended maximum deflection angle is allowable.
24. The locations of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities. Utility relocation work has been or will be accomplished to clear the work space. The relocations are not reflected on these drawings.
25. Existing wastewater manholes that are tied into must be rehabbed. Wet wells that are being modified must be rehabbed. Rehabbed meaning taking old coating off if it's not Lafarge and recoated with Lafarge ½" manholes and 1" wet wells minimum thickness!