

GENERAL NOTES FOR CONSTRUCTION DOCUMENTS
WATER MAIN IMPROVEMENTS

1. All pipe shall be (C-900 DR 18), HDPE (DR 17), DIP (class 50), or 2" HDPE (CTS) unless otherwise noted.
2. All valves to be resilient seated gate valves - and shall conform to the applicable requirements of AWWA C509 and C515. Resilient-seat gate valves shall be American Flow Control, Kennedy, Clow, Mueller or U.S. Pipe. All valves shall be left turn open, and have a riser consisting of 6" schedule 40 pipe and a clay and bailey 2194 valve cover. Valves installed in roadway shall have a clay and baily 2193 valve cover.
3. All valves adjacent to tees, crosses, or elbows shall be anchored to the fitting.
4. All fire hydrants are required to have 1-4 1/2" and 2-2 1/2" nozzles, and shall be "Pacer" model manufactured by Waterous Mueller, Kennedy, or U.S. Pipe. Fire hydrants shall conform to AWWA C502. All hydrants shall be furnished with 6" auxiliary gate valve anchored to hydrant, and where relevant, anchored to the tee.
5. All fire hydrants shall be painted above the ground line with red enameled paint.
6. All utilities are located from best available information. Contractor shall verify locations before construction.
7. A 5 foot steel fence post shall be set 36" above ground by all valves and flushing devices.
8. All lines shall have 42" minimum cover or shall be laid with top of water line 42" below top of curb, whichever is lower. Unless specifically noted otherwise on plan sheets.
9. Tracer wire shall be provided and installed with all waterline installations #12 THHN solid wire shall be taped to the top of the pipe and extended up along the exterior of valve boxes.
10. All dead lines to be one joint of pipe with 1/2 c.y. or more of concrete in the center of the joint with a straddle block into undisturbed soil.
11. Bid for fire hydrant shall include 6" valve and box.
12. The Contractor shall disinfect, flush and test lines as required by APWA and the City of De Soto Specifications, latest edition.
13. Wherever water and sewer lines cross with clearance of less than 2 feet, the sewer line shall be constructed of ductile iron pipe for a distance of at least 10 feet in each direction of crossing.
14. Where fire hydrants are not located at the end of lines, the Contractor shall furnish a flushing device.

15. All fire hydrants are to be set with the base 1" above the top of curb.
16. All trees shall be spared unless marked.
17. Where vertical bends are required, all bends shall be restrained with restrained joint pipe and fittings.
18. All tapping valves shall be blocked same as equal sized tee.
19. The Contractor is required to remove and replace and fence to the satisfaction of the owner.
20. Development plans are approved initially for one year after which they automatically become void and must be updated and re-approved by the City Engineer before any construction will be permitted.
21. The City of De Soto plan review is only for general conformance with the city of De Soto design criteria and the city code. The city is not responsible for the accuracy and adequacy of the design, or dimensions and elevations which shall be confirmed and correlated at the job site. The City of De Soto through approval of the document assumes no responsibility, other than that as stated above, for the completeness and/or accuracy of this document.
22. The contractor shall have one copy of the plans approved by the City of De Soto with state approval stamp on cover sheet and one copy of the appropriate design and construction standards and specifications at the job site at all times.
23. The contractor shall not be allowed to work on Sundays, holidays or Saturday work shall be approved by the city engineer.
24. Construction of the improvements shown or implied by this set of drawings shall not be initiated of any part thereof and all required and properly executed bonds and contract agreements are received and approved by the city engineer.
25. The Contractor shall submit a performance & 2-year maintenance bond to the City of De Soto prior to the start of construction.
26. The Contractor shall submit proof of contractor's liability insurance prior to construction. This insurance shall list the City of De Soto as an additional insured.
27. Construction inspection will be provided by the City of De Soto. A fee in the amount of 3% of the bonded improvement costs will be assessed to the owner.