

GENERAL WATER NOTES

1. All materials and construction procedures within the scope of this contract shall be approved by the San Antonio Water System (SAWS) and comply with the Plans, Specifications, General Conditions and with the following as applicable:
 - A. Current Texas Commission on Environmental Quality (TCEQ) “Design Criteria for Domestic Wastewater System”, Texas Administrative Code (TAC) Title 30 Part 1 Chapter 217 and “Public Drinking Water”, TAC Title 30 Part 1 Chapter 290.
 - B. Current Texas Department of Transportation (TXDOT) “Standard Specifications for Construction of Highways, Streets and Drainage.”
 - C. Current San Antonio Water System “Standard Specifications for Water and Sanitary Sewer Construction.”
 - D. Current City of San Antonio “Standard Specifications for Public Works Construction.”
 - E. Current City of San Antonio “Utility Excavation Criteria Manual”
2. The Contractor is to make arrangements with the SAWS Construction Inspection Division at 233-3500 and provide notification procedures the contractor will use to notify affected home residents and/or property owners 48 hours prior to excavation.
3. Locations and depths of existing utilities and service laterals shown on the plans are understood to be approximate. Actual locations and depths must be field verified by the Contractor 48 hours prior to construction. It shall be the Contractor’s responsibility to locate utility service lines as required for construction and to protect them during construction at no cost to SAWS.
4. The Contractor shall verify the exact location of underground utilities and drainage structures at least 48 hours prior to construction whether shown on plans or not. The following contact information are supplied for verification purposes:

SAWS Utility Locates: 233-2010
SAWS Production Control Center: 233-2016
COSA Drainage: 207-8048
COSA Traffic Signal Operations: 207-7720
Texas State Wide One Call Locator: 1-800-545-6005 or 811
Bexar Metropolitan Water District: 354-6536
5. The Contractor shall comply with City of San Antonio or other governing Municipality’s tree ordinances when excavating near trees.
6. The Contractor shall not place any waste materials or spoils in the 100-year Flood Plain without first obtaining an approved Flood Plain Permit.

7. Prior to tie-ins, any shutdowns of existing mains of any size must be coordinated with the SAWS Construction Inspection Division at (210) 233-3500 and/or SAWS Production groups at least two weeks in advance of the shutdown. The Contractor must also provide a sequence of work as related to the tie-ins; this is at no additional cost to SAWS or the project and it is the responsibility of the Contractor to sequence the work accordingly.
8. Where water lines and new sewer lines are installed with a separation distance closer than nine feet (i.e., water lines crossing wastewater lines, water lines paralleling wastewater lines, or water lines next to manholes) the installation must meet the requirements of 30 TAC 217.53(d) (Pipe Design) and 30 TAC 290.44(e) (Water Distribution).
9. Asbestos Cement (AC) pipe, also known as transite pipe which is known to contain asbestos-containing material (ACM), may be located within the project limits. Special waste management procedures and health and safety requirements will be applicable when removal and/or disturbance of this pipe occurs, Payment for such work is to be made under Special Specification Item for Asbestos Cement Pipe.
10. Any work completed without prior written authorization which is not included in these plans and specifications will not be compensated by the San Antonio Water System.

GENERAL SEWER NOTES

1. All materials and construction procedures within the scope of this contract shall be approved by the San Antonio Water System (SAWS) and comply with the Plans, Specifications, General Conditions and with the following as applicable:
 - A. Current Texas Commission on Environmental Quality (TCEQ) "Design Criteria for Domestic Wastewater System", Texas Administrative Code (TAC) Title 30 Part 1 Chapter 217 and "Public Drinking Water", TAC Title 30 Part 1 Chapter 290.
 - B. Current Texas Department of Transportation (TXDOT) "Standard Specifications for Construction of Highways, Streets and Drainage."
 - C. Current San Antonio Water System "Standard Specifications for Water and Sanitary Sewer Construction."
 - D. Current City of San Antonio "Standard Specifications for Public Works Construction."
 - E. Current City of San Antonio "Utility Excavation Criteria Manual"
2. The Contractor is to make arrangements with the SAWS Construction Inspection Division at 233-3500 and provide notification procedures the contractor will use to notify affected home residents and/or property owners 48 hours prior to excavation.
3. The Contractor shall verify the exact location of underground utilities and drainage structures at least 48 hours prior to construction whether shown on plans or not. The following contact information are supplied for verification purposes:

Utility Locate:

SAWS Utility Locates: 233-2010

SAWS Production Control Center: 233-2016

COSA Drainage: 207-8048

COSA Traffic Signal Operations: 207-7720

Texas State Wide One Call Locator: 1-800-545-6005 or 811

Bexar Metropolitan Water District: 354-6536

4. The Contractor is responsible to ensure that no overflows or spillage of sewage occurs. Should this occur, the Contractor shall:
 - A. Identify the source of the spill and attempt to eliminate any additional spillage. Notify SAWS Construction Inspections Division at 233-3500.
 - B. Contain the spill in place and prevent contamination of streams.
 - C. Clean up the spill and dispose of contaminated materials.
 - D. Disinfect the area of the spill with a mixture of HTH chlorine and water.
 - E. Identify and train personnel responsible for spillage prevention and control.

- No separate measurement or payment shall be made for this work. All work shall be done according to guidelines set by the TCEQ and the SAWS.
5. The Contractor shall comply with City or other governing Municipality's tree ordinances when excavating near trees.
 6. The Contractor shall not place any waste materials or spoils in the 100-year Flood Plain without first obtaining an approved Flood Plain Permit.
 7. Service Lateral Connections:
 - A. The exact location and elevation of the service laterals and manholes shall be field verified by the Contractor. No separate pay item (NSPI).
 - B. A minimum of 3 feet of cover is to be maintained over the sanitary sewer laterals at subgrade.
 - C. All sewer lateral services for future connections as identified on the plans shall have a one way clean-out, capped and sealed.
 - D. The Contractor shall be responsible for maintaining continuous service during construction of the sewer work. (NSPI).
 - E. Laterals shall be constructed to serve all existing houses and platted vacant lots.
 8. Contractor shall coordinate with SAWS Construction Inspection Division at 233-3500 and/or SAWS Lift Stations Operations at least two weeks in advance of the shutdown of existing force mains of any size. The Contractor must also provide a sequence of work as related to the shutdown including any bypass pumping or pump and haul as required by SAWS. Pump and Haul will not be allowed over the Edwards Aquifer Recharge Zone.
 9. Sewer lines located within or crossing the 5-year flood plain of a drainage way will be protected from inundation and stream velocities which could cause erosion and scouring of backfill. The trench must be capped with concrete to prevent scouring of backfill. The trench must be encased in concrete. All concrete shall have a minimum thickness of six inches.
 10. Where water lines and new sewer lines are installed with a separation distance of less than nine feet (i.e., water lines crossing wastewater lines, water lines paralleling wastewater lines, or water lines next to manholes) the installation must meet the requirements of 30 TAC 217.53(d) (Pipe Design) and 30 TAC 290.44(e) (Water Distribution).

11. Any work completed without prior written authorization which is not included in these plans and specifications will not be compensated by the San Antonio Water System.

12. The Contractor shall provide bypass pumping of sewage around each segment of pipe to be replaced, in accordance with SAWS Standard Specifications for Water and Sanitary Sewer Construction Item No. 864, "Bypass Pumping". Payment for such work will be made under the bid item "Sanitary Sewer (Bypass Pumping)" as per Standard Specifications for Water and Sanitary Sewer Construction Item No. 864, "Bypass Pumping". The Contractor shall provide in writing a sequence of bypass pumping for review and approval by the Inspections department. Refer to the construction plans for the construction phasing and diversion requirements. The Contractor shall also provide a detailed sketch showing the location of bypass pumping equipment for each line segment(s) around which flows are being bypassed, along with the specification of pumping equipment, type, size, capacity and amount of pumps required to handle the peak wet weather flow.