

**SAN ANTONIO WATER SYSTEM
AS-BUILT / PLAN OF RECORD
REQUIRED INFORMATION**

January 3, 2007

A. WATER AS-BUILTS

I. On cover sheet

1. Tabulation of As-built Quantities. All mains are classified by size and type, and with the appropriate symbol. As-Built Pipe Symbols are in the SAWS Web page.
2. Fire Hydrant pipe quantities are given separately as follows: 6" D.I. (F.H.) and the symbol is a six-sided polygon.
3. Place Materials Note. This note lists Pipe, Valves, Fittings and Fire Hydrants by their Brand Names.
4. Include: Contractor: Company Name
Inspector: Name
Completed: Date of Completion. (This is the Field Acceptance Date.)
5. Place "AS-BUILT / PLAN OF RECORD" on the cover page, with the date when the As-Built was submitted.

II. On Water As-Built Sheets

1. Place "As-Built / Plan of Record" on each plan sheet with the date when As-Built was submitted.
2. Give measurement of water main from center of fitting to center of fitting.
3. Place measurements inside appropriate pipe symbol.
4. Show distance of water main to the Property line.
5. Show distance between As-Built main and abandoned main.
6. When there is a change in alignment of the proposed water main, location of valves or fittings etc., the As-Built plan must reflect this change accurately. The old alignment should be deleted.
7. Indicate cut and plug locations.
8. Use the Valve Location symbol or "Flag" to show Valve measurement.
9. Valve measurements are taken from property corner at street intersection. If and only if the property corner cannot be established, measurements can be taken from the nearest fire hydrant.
10. The Fire Hydrant Valve can be measured from the Fire Hydrant to the Valve.

Sample As-Built which illustrates the above requirements is included.

III. As-Built Submittal

1. Submit one black line or blue line copy for first review.
2. After first review has been made and revisions are needed, a second review copy needs to be submitted.
3. After acceptance of review copies, then final mylar's of the As-Built can be submitted along with an electronic copy in DGN or DWG format.
4. Electronic copy of Overall Utility Plan (Plan of Record) in Texas State Plane NAD 83, TX South Central, Survey Feet.
To conform to SAWS CADD standards in DGN or DWG format.
5. Electronic copy of "As-Built / Plan of Record" in PDF format.

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SEWER AS-BUILTS

I Needed Material

1. Provide a Cover Sheet
2. Provide a quantity sheet showing Final or As-Built quantities
3. Provide sewer plan and profile sheets

II On Cover Sheet

1. Provide SAWS Sewer Job No.
2. Place "AS-BUILT / PLAN OF RECORD" with the date the As-Built was submitted.
3. Tabulation of As-built Quantities. All mains are classified by size and type.
4. Place Materials Note. This note lists Pipe, Manholes, and Fittings by their Brand Names.
5. Include: Contractor: Company Name
Inspector: Name
Completed: Date of Completion. (This is the Field Acceptance Date.)

III On As-Built Sheets

1. Place "AS-BUILT / PLAN OF RECORD" on each sheet with date of completion.
2. Show As-Built L.F. pipe distance from manhole to manhole.
3. Show sewer laterals with lateral station and lateral information:
Example: Sta. 3+25
1 – wye
3 – 45 deg. Bend
12' – 6" pipe
4. When there is a change in alignment of the proposed sewer pipe, or when proposed manholes are moved to a new location, or any other change occurs in the field, the As-Built plan must reflect these changes accurately. The old alignment, etc. are deleted.
5. When there is a change in the proposed slope of the sewer pipe, the profile view must reflect this change accurately: i.e. The invert elevation, stations slope percent, pipe length should be revised as needed.
6. All changes should be made in such a manner that they are clear, legible and neat.

IV As-Built Submittal

1. Submit one black line or blue line copy for first review.
2. After first review has been made and revisions are needed, a second review copy needs to be submitted.
3. After acceptance of review copies, then final mylar's of the As-Built can be submitted along with an electronic copy in DGN or DWG format.
4. Electronic copy of Overall Utility Plan (Plan of Record) in Texas State Plane NAD 83, TX South Central, Survey Feet.
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STANDARD PIPE SYMBOLS FOR AS-BUILT DRAWINGS (AS OF 06-16-08)

2" D.I.M.J.-T/S		12" P.V.C. / HDPE		30" C.S.C.	
2" A.C.		12" D.I.R.O.		30" STEEL	
2" COPPER PIPE		12" A.C.		30" D.I.M.J.-T/S	
2" GALV. IRON		12" D.I.M.J.-T/S		36" D.I.	
4" D.I.R.O.		12" STEEL		36" HDPE	
4" A.C.		16" D.I.R.O.		36" C.S.C.	
4" PIPE		16" A.C.		36" STEEL	
6" F.H.		16" D.I.M.J.-T/S		42" D.I.	
6" P.V.C. F.H.		16" STEEL		42" C.S.C.	
6" A.C.		16" P.V.C. / HDPE		42" STEEL	
6" D.I.M. J-T/S		18" P.V.C. / HDPE		48" ST.	
6" STEEL		20" A.C.		48" C.S.C.	
6" GALV. PIPE		20" D.I.M.J.-T/S		54" STEEL	
6" P.V.C. / HDPE		20" D.I.R.O.		54" C.S.C.	
8" D.I.R.O.		20" P.V.C. / HDPE		60" C.S.C.	
8" A.C.		20" STEEL		60" STEEL	
8" D.I.M.J.-T/S		20" C.S.C.		66" C.S.C.	
8" STEEL		24" P.V.C. / HDPE		66" STEEL	
8" P.V.C. / HDPE		24" D.I.R.O.		72" C.S.C.	
10" D.I.R.O.		24" A.C.		72" STEEL	
10" A.C. / P.V.C.		24" D.I.M.J.-T/S			
10" D.I.M.J.-T/S		24" C.S.C.			
10" STEEL		24" STEEL			

M.J. = MECHANICAL JOINT
T/S = TAPPING SLEEVE
F.H. = FIRE HYDRANT

D.I. = DUCTILE IRON
R.O. = ROLL ON

