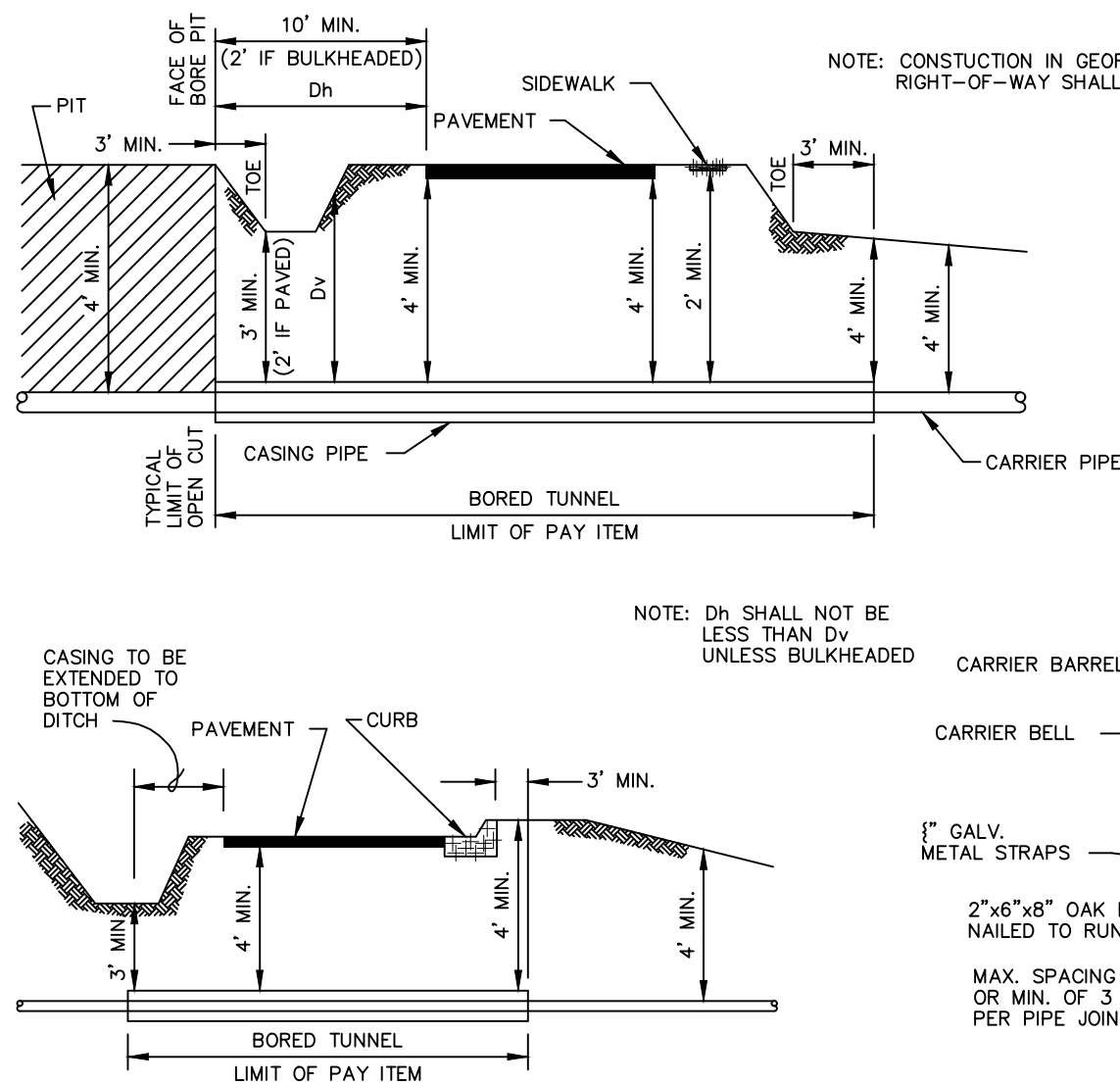


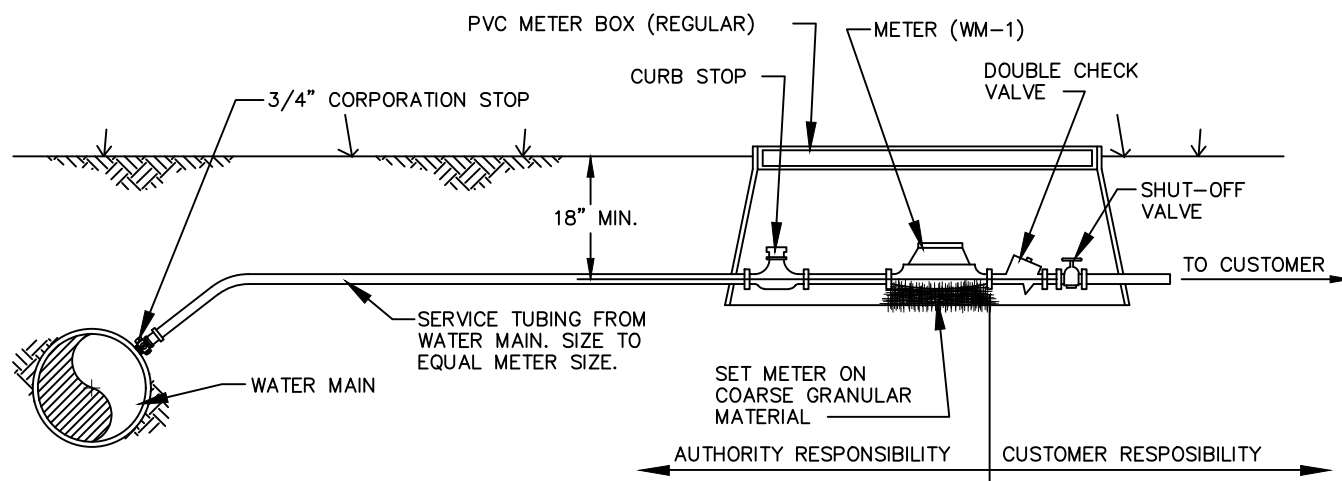
BUTTS COUNTY, ET AL. WATER AND SEWER AUTHORITY
MATERIAL SPECIFICATION SUMMARY
All products must meet ANSISNSF Standard 61 for Drinking Water System Components

ITEM	SPECIFICATION
Water Pipe, 6" and larger	C909 PVC (MO), Push-on joint, CI OD, 235 psi (Ultra Blue) preferred OR C900 PVC, Push-on joint, DR 18, CI 150, no JM or NAP brand OR Ductile Iron, ANSI/AWWA C151/A21.51, Pressure Class 350 min., exterior coat of bituminous and interior cement mortar lining
Fire Hydrants	4 1/2" valve opening, 3-way, American Darling MK-73-1, Mueller Super Centurion, M&H Model 129 or AVK brands ONLY, must be factory painted silver directly over primer (NO RE-PAINTS!) Hydrants are to be installed with hydrant tees, anchor couplings, and 6" gate valves
Gate Valves, 6" and larger	Max separation of 750' on existing county roads, 500' in subdivisions & commercial developments Mechanical joint, resilient seat conforming to AWWA 500, 2" square operating nut. Must have epoxy coat inside and outside. American, Clow, M&H, or Mueller brands only.
Fittings	Short body ductile iron fittings for 350 psi water pressure conforming to ANSI/AWWA C110/A21.0 or ANSI/AWWA C153/A21.53. Cement lined with bituminous outside coating. Imports are acceptable.
Tapping Sleeves and Valves	Tapping sleeves shall be fabricated stainless steel. JCM Models 432, 462 or equal. Tapping valves shall be gate valves furnished in accordance with specifications shown above with flanged connection to the tapping sleeve and nj connection to the branch pipe.
Valve Boxes	Heavy roadway type cast iron, two piece slip or crew type with drop covers. Imports are acceptable.
Valve Collars	24"x24"x4" concrete pads with 9" opening
Locate Wire	14 gauge coated copper
Service Tapping Saddles, 3/4" & 1"	less than 10" Bronze single band, (Ford model S90, Mueller model H-13000, McDonald model 3801 only) 10" & up: Stainless steel single band (Smith-Blair 315, 325, or equal)
Meter Boxes	DFW Alliance 1200, Carson #10152026, or exact equal, plastic box Vestal 1419, or exact equal, cast iron lid
Corporation Stops, 3/4" & 1"	Mueller H-15008, Ford F1000 or AY McDonald 4701T ONLY
Curb Stops, 3/4" & 1"	Main Pressure Less than 90 psi: Ford B43-232WG, B43-444WG or Mueller, AY McDonald equal; Main Pressure Greater than 90 psi: Ford B41-233WG, B41-444WG or Mueller, AY McDonald equal;
Service Line	Type K soft copper tubing,
Valve Markers	To be provided by Water Authority
ALL OTHER MATERIALS	Ask for information

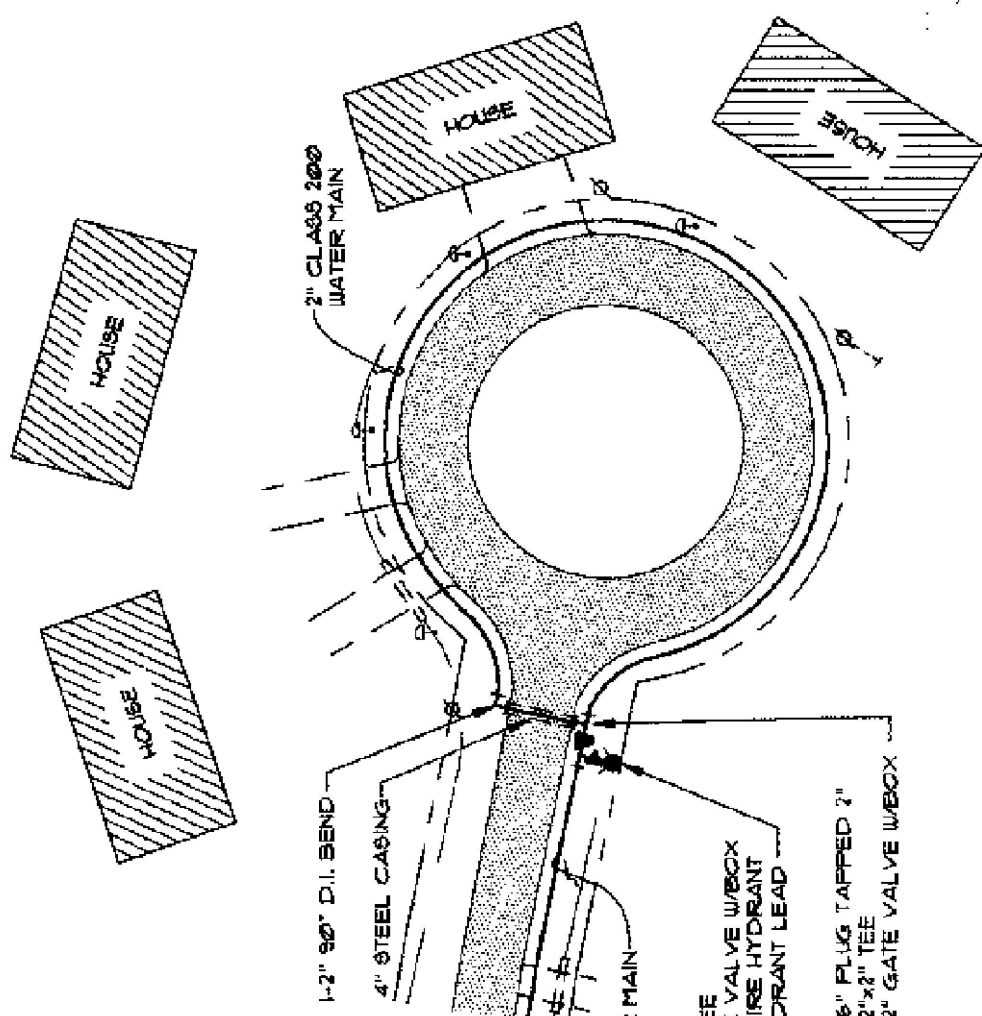
Updated January 31, 2012



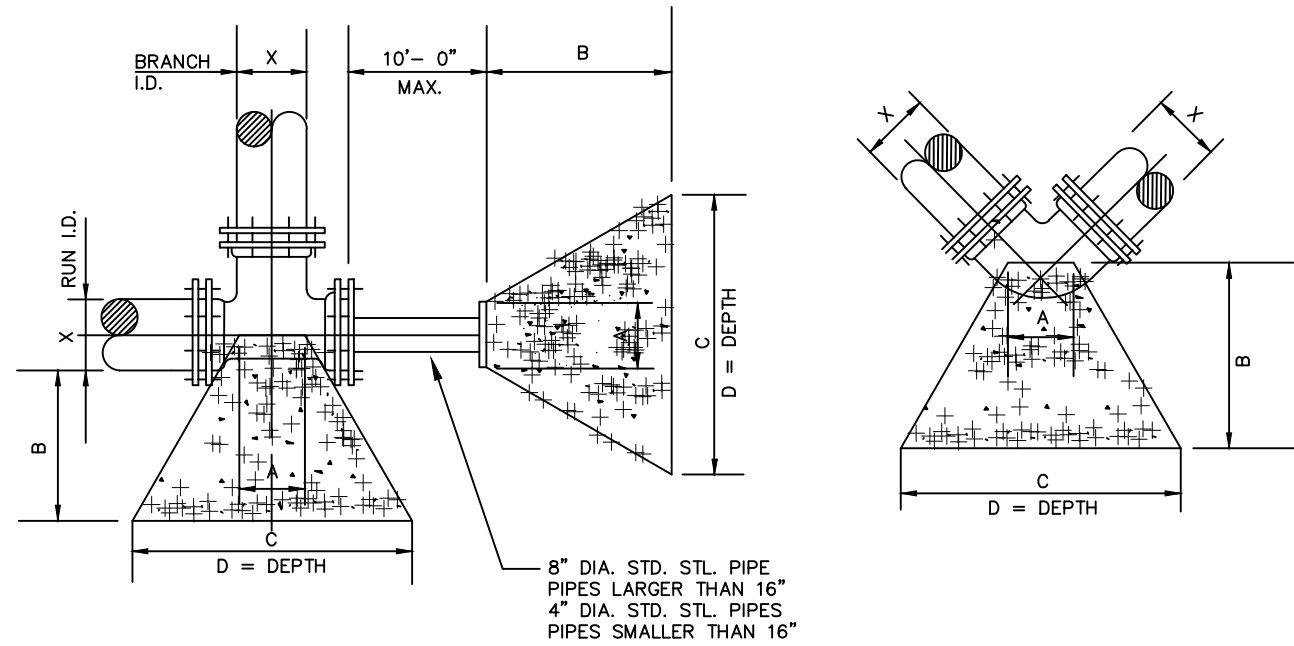
HIGHWAY UTILITY CROSSING DETAIL
N.T.S.



DETAIL - STANDARD SERVICE CONNECTION
N.T.S.



DETAIL - TYPICAL FIRE HYDRANT SETTING
N.T.S.



BLOCKING DIMENSIONS																		
		BENDS							BENDS									
		X	A	B	C	D			X	A	B	C	D					
~4 BEND	30"	2'-0"	11'-6"	15'-3"	6'-0"	5'-0"	30"	1'-0"	2'-10"	4'-3"	3'-0"	30"	1'-0"	2'-10"	4'-3"	3'-0"		
	24"	2'-0"	7'-9"	10'-9"	5'-6"	5'-0"	24"	1'-0"	2'-6"	3'-8"	2'-6"	24"	1'-0"	2'-6"	3'-8"	2'-6"		
	20"	1'-9"	6'-0"	8'-6"	5'-0"	5'-0"	20"	1'-0"	2'-0"	3'-0"	2'-0"	20"	1'-0"	2'-0"	3'-0"	2'-0"		
	16"	1'-3"	4'-0"	6'-0"	4'-6"	4'-6"	16"	1'-0"	1'-8"	2'-6"	1'-6"	16"	1'-0"	1'-8"	2'-6"	1'-6"		
	12"	1'-0"	2'-0"	4'-0"	1'-6"	1'-6"	12"	8"	1'-0"	1'-6"	1'-6"	12"	8"	1'-0"	1'-6"	1'-6"		
	10"	1'-0"	2'-6"	3'-9"	3'-0"	3'-0"	10"	10"	1'-0"	1'-6"	1'-0"	10"	10"	1'-0"	1'-6"	1'-0"		
~2 BEND	30"	1'-6"	7'-6"	10'-0"	5'-0"	5'-0"	30"	1'-0"	2'-10"	4'-3"	3'-0"	30"	1'-0"	2'-10"	4'-3"	3'-0"		
	24"	1'-3"	5'-9"	8'-0"	4'-0"	4'-0"	24"	1'-0"	2'-6"	3'-8"	2'-6"	24"	1'-0"	2'-6"	3'-8"	2'-6"		
	20"	1'-0"	4'-9"	6'-8"	3'-6"	3'-6"	20"	1'-0"	2'-6"	3'-8"	2'-6"	20"	1'-0"	2'-6"	3'-8"	2'-6"		
	16"	1'-3"	3'-3"	5'-0"	3'-3"	3'-3"	16"	1'-0"	1'-8"	2'-6"	1'-6"	16"	1'-0"	1'-8"	2'-6"	1'-6"		
	12"	1'-0"	1'-9"	3'-0"	2'-9"	2'-9"	12"	10"	1'-0"	4'-8"	6'-4"	3'-0"	12"	10"	1'-0"	4'-8"	6'-4"	3'-0"
	10"	1'-0"	1'-9"	3'-0"	2'-0"	2'-0"	10"	10"	1'-0"	4'-8"	6'-4"	3'-0"	10"	10"	1'-0"	4'-8"	6'-4"	3'-0"
~1 BEND	30"	1'-0"	4'-8"	6'-4"	4'-0"	4'-0"	30"	1'-0"	2'-10"	4'-3"	3'-0"	30"	1'-0"	2'-10"	4'-3"	3'-0"		
	24"	1'-0"	3'-0"	5'-0"	3'-6"	3'-6"	24"	1'-0"	2'-6"	3'-8"	2'-6"	24"	1'-0"	2'-6"	3'-8"	2'-6"		
	20"	1'-0"	2'-6"	4'-4"	3'-0"	3'-0"	20"	1'-0"	2'-6"	3'-8"	2'-6"	20"	1'-0"	2'-6"	3'-8"	2'-6"		
	16"	1'-0"	1'-6"	3'-0"	2'-0"	2'-0"	16"	1'-0"	1'-8"	2'-6"	1'-6"	16"	1'-0"	1'-8"	2'-6"	1'-6"		
	12"	1'-0"	1'-3"	2'-3"	2'-0"	2'-0"	12"	10"	1'-0"	4'-8"	6'-4"	3'-0"	12"	10"	1'-0"	4'-8"	6'-4"	3'-0"
	10"	1'-0"	1'-0"	2'-0"	1'-6"	1'-6"	10"	10"	1'-0"	4'-8"	6'-4"	3'-0"	10"	10"	1'-0"	4'-8"	6'-4"	3'-0"

NOTE: 200 P.S.I. TEST PRESSURE
SOIL BEARING OF 2500 P.S.F.
3000 P.S.I. CONCRETE
PIPE LESS THAN 4" IN DIAMETER
SHALL HAVE THE SAME REQUIREMENT AS 4" DIAMETER PIPE

NOTE: 200 P.S.I. TEST PRESSURE.
SOIL BEARING OF 2500 P.S.F.
3000 P.S.I. CONCRETE
PIPE LESS THAN 4" IN DIAMETER
SHALL HAVE THE SAME REQUIREMENTS
AS 4" DIAMETER PIPE

DETAIL - THRUST BLOCK
N.T.S.

WATER DISTRIBUTION SYSTEM NOTES

- All water mains installed within the Butts County Water and Sewer Authority service area must meet the Authority's specifications.
- All plans for extensions must be reviewed and approved by the Butts County Water and Sewer Authority, separate from the Butts County Community Development review process.
- A preconstruction conference with the installer is required prior to the beginning of any installation.
- Water lines are to be constructed per Butts County's utility placement standards and at a typical minimum depth of 48".
- All service tubing for taps sized 1" and smaller shall be type 'K' soft copper tubing.
- In residential subdivisions:
 - the Butts County Water and Sewer Authority will set water meters in meter boxes installed by the contractor, and
 - water service taps shall be made such that the meter box extends on the lot whenever possible. When meter boxes must be placed at lot corners, they should be placed at least 5' from property pins so as to not interfere with other utility service connections.
- All gate valves are to be installed outside of pavement and curb.
- The spacing between fire hydrants will be no more than the distance shown for development types as follows: 500' apart for single family residential developments, 400' apart for industrial/commercial developments, and 750' apart for existing county roads.
- Temporary water main ends shall be equipped with restrained joint plugs or caps. If concrete thrust blocks are used, they shall be installed such that they do not cover or interfere with access to the temporary main end for future expansion.
- Valves near tees and/or crosses shall be restrained to tee or cross by threaded rods or anchoring pipe/fittings.
- Valve markers must be obtained directly from the Butts County Water and Sewer Authority.
- In areas with curb and gutter, mark each meter box with a "w" cut into top of curb and mark each valve box with a "v" cut into top of curb.
- Coated 14 gauge locate wire is required to be installed with any non-metal piping.
- All tie-ins to the existing system must be performed in the presence of Authority staff.
- Prior to initiation of service, the extension project must pass a full physical inspection, including a pressure test and bacteria test.
- The installer will maintain field "as-built" drawings and will measure and show installed locations of all mains, valves, hydrants, and services.
- Refer to Butts County Water and Sewer Authority's detail drawings and Material Specification Summary for additional information.



BUTTS COUNTY, ET AL. WATER & SEWER AUTHORITY
STANDARD WATER DETAILS

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WATER & SEWER AUTHORITY
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