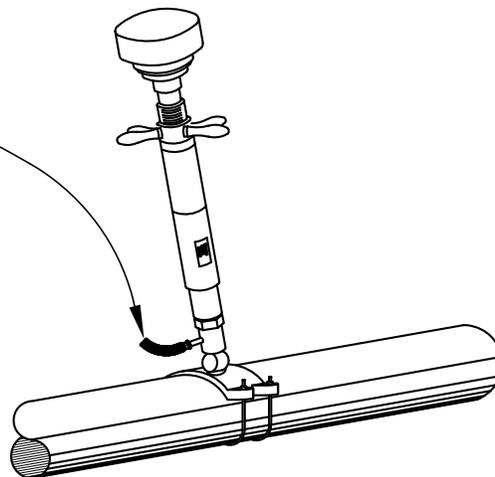
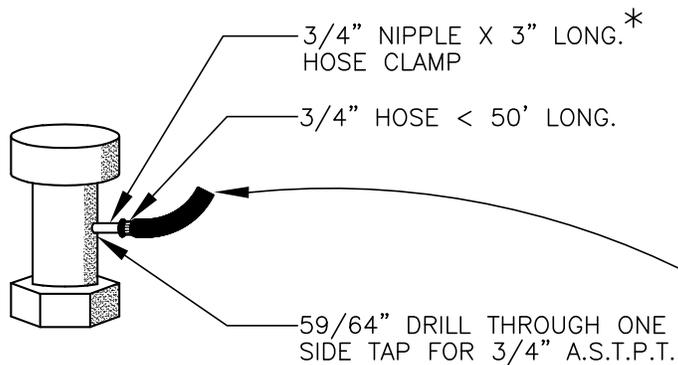


NOTES:

ALL DRILLING OR TAPPING OF ANY WATERMAINS, NEW OR EXISTING, SHALL BE DONE ONLY WITH EQUIPMENT PROVIDED WITH ACTIVE PURGING FACILITIES AS REQUIRED BY THIS SPECIFICATION.

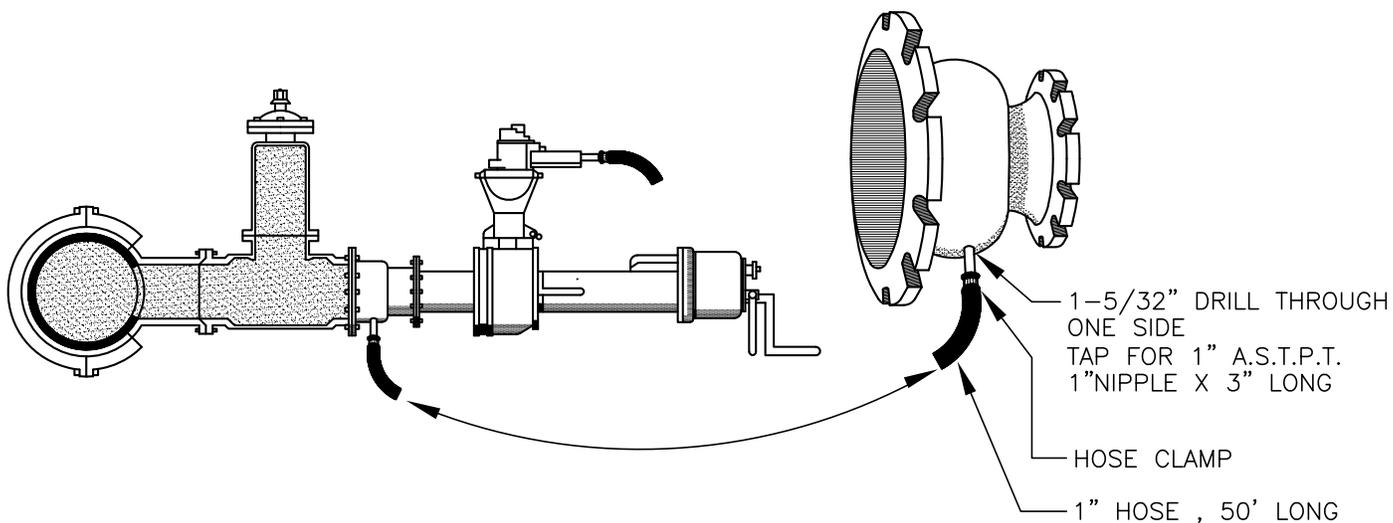
1. NO "DRY" DRILLING OR TAPPING OF WATERMAINS SHALL BE PERMITTED. PRIOR TO ANY DRILLING, THE MAIN TO BE DRILLED SHALL HAVE ALL ENTRAPPED AIR REMOVED AND WATER PRESSURIZED TO 40 P.S.I. OR NORMAL OPERATING SYSTEM PRESSURE, WHICHEVER IS HIGHER.
2. ALL DRILLING MACHINES AND ADAPTORS TO BE USED TO DRILL ANY NEW OR EXISTING MAIN THAT IS OR WILL BECOME A PART OF THE TUCSON WATER DISTRIBUTION SYSTEM SHALL BE MODIFIED AS SHOWN ON SHEET 2 AND APPROVED FOR USE BY THE ENGINEER PRIOR TO THE START OF ANY DRILLING OPERATIONS. DRILLING EQUIPMENT WITHOUT APPROVED PURGING WATER PROVISION SHALL NOT BE UTILIZED.
3. PURGE WATER OPENINGS SHALL BE A MINIMUM OF 3/4" FOR DRILLING HOLES UP TO AND INCLUDING 2" IN DIAMETER AND 1" FOR DRILLING HOLES GREATER THAN 2" IN DIAMETER.
4. THE PURGE OPENING SHALL BE POSITIONED IN THE BOTTOM QUADRANT OF THE EQUIPMENT WHEN THE EQUIPMENT IS POSITIONED ON THE MAIN TO BE DRILLED.
5. NO VALVES SHALL BE PERMITTED IN THE PURGE WATER PATH. WHERE THE CONTRACTOR CHOOSES TO PERFORM AN AIR TEST TO DEMONSTRATE THE INTEGRITY OF THE DRILLING MACHINE POSITIONING PRIOR TO THE START OF DRILLING, THE REQUIRED DRAIN HOSE MAY BE REMOVED FROM THE PURGE WATER NIPPLE AND A PIPE CAP INSTALLED. AT THE COMPLETION OF THE AIR LEAK TEST AND PRIOR TO THE START OF ANY DRILLING THIS PIPE CAP MUST BE REMOVED AND THE DRAIN HOSE REINSTALLED.
6. THE DRAIN HOSE SHALL BE FULL SIZE, 3/4" I.D. OR 1" I.D., AND SHALL NOT EXCEED 50 FEET IN LENGTH.
7. DRILLS AND SHELL CUTTERS SHALL BE MAINTAINED SHARP AND OF PROPER DIMENSIONS TO MINIMIZE DAMAGE TO THE PIPE AND TO PRESERVE THE INTEGRITY OF THE REMAINDER OF THE PIPE WALL. DRILLS AND SHELL CUTTERS SHALL PRODUCE CLEAN, EVEN ENTRY CUTS UNDER NORMAL DRILLING MACHINE STRESSES OR THEY SHALL BE REPLACED AS DIRECTED BY THE ENGINEER.
8. ALL PIPE BEDDING AND THRUST BLOCKING SHALL BE IN PLACE AND APPROVED BY THE ENGINEER PRIOR TO THE START OF DRILLING. THRUST AND VALVE SUPPORT BLOCKING SHALL BE IN PLACE FOR ANY TAPPING SLEEVE AND VALVE AND APPROVED BY THE ENGINEER PRIOR TO THE START OF DRILLING.
9. PURGE WATER FLOW SHALL BE CONTAINED UNTIL THE DRILLING MACHINE BORING BAR IS WITHDRAWN AND THE NEW CORPORATION COCK OR TAPPING VALVE CLOSED.
10. PURGE WATER SHALL BE DISPOSED OF IN ADJACENT BACK FILL UNLESS OTHERWISE ALLOWED BY THE ENGINEER.

ISSUED:		STANDARD DETAIL		DETAIL NO.
6/97		NOTES FOR PURGING OF SERVICE LINES		SD-313
REVISED:				SHEET 1 OF 2
4/16				



* LINE BORE ADAPTER NIPPLE
AFTER INSTALLATION OF 3/4"
NIPPLE TO PREVENT PRO-
JECTION INTERFERENCE WITH
DRILLING MACHINE BORING
BAR.

DRILLING MACHINE ADAPTER NIPPLE MODIFICATIONS 2" Ø AND SMALLER



DRILLING MACHINE ADAPTER MODIFICATIONS LARGER THAN 2" Ø

NOTE:

FACE OFF INNER END OF 1" NIPPLE AFTER INSTALLATION TO PREVENT PROJECTION INTERFERENCE WITH SHELL CUTTER.

ISSUED:		STANDARD DETAIL		DETAIL NO.
6/97		PURGING OF SERVICE LINES		SD-313
REVISED:				SHEET 2 OF 2
8/17				