

NON-POTABLE WATER LINE NOTES

THE GENERAL CONTRACTOR SHALL GIVE THE CITY OF EVANS ENGINEERING DIVISION AT LEAST 24 HOURS ADVANCE NOTICE BEFORE BEGINNING CONSTRUCTION. A PRE-CONSTRUCTION MEETING WITH THE CITY OF EVANS ENGINEERING DIVISION IS THE PREFERRED METHOD OF NOTIFYING THE CITY OF CONSTRUCTION ACTIVITY.

ALL NON-POTABLE WATER LINE CONSTRUCTION SHALL CONFORM TO THE CITY OF EVANS STANDARDS AND SPECIFICATIONS CURRENT TO THE DATE OF CONSTRUCTION.

ALL NON-POTABLE WATER LINE PIPE SHALL BE CONSTRUCTED OF PURPLE POLYVINYL CHLORIDE PIPE.

ALL PVC PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C-900 AND C-905, LATEST REVISIONS, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS AND OR EXCEPTIONS. ALL AWWA CLASS 150 PIPE SHALL MEET THE REQUIREMENT OF AWWA DR-18 AND AWWA CLASS 200 SHALL MEET THE REQUIREMENT OF AWWA DR-14. SOLVENT CEMENT JOINTS ARE STRICTLY PROHIBITED. EACH LENGTH OF PIPE WILL BE A STANDARD LAYING LENGTH OF 20 FEET. RANDOM LENGTHS SHALL NOT BE ACCEPTABLE.

PIPE THAT WILL BE STORED OUTSIDE FOR MORE THAN 30 DAYS SHALL BE COVERED WITH AN OPAQUE MATERIAL, AND AIR CIRCULATION PROVIDED TO PROTECT THE PIPE FROM EXPOSURE TO WEATHERING ELEMENTS.

THE MINIMUM DIAMETER FOR WATER MAINS IN RESIDENTIAL AREAS, INCLUDING CUL-DE-SACS, SHALL BE 4 INCHES AND SIZED BY DEMAND. COMMERCIAL DEVELOPMENT REQUIREMENTS ARE REVIEWED ON AN INDIVIDUAL BASIS.

ALL NON-POTABLE WATER MAINS, AND WATER SERVICES SHALL HAVE A MINIMUM COVER OF 4.5 FEET, AND A MAXIMUM COVER OF 5.5 FEET.

ALL PVC PIPE SHALL HAVE COPPER TRACER WIRE PLACED ON TOP OF THE PIPE AND DAYLIGHTED AT EVERY OTHER VALVE BOX LOCATION.

PIPE DEFLECTION FOR DUCTILE IRON PIPE 6 INCHES TO 12 INCHES IN DIAMETER SHALL BE 5 DEGREES AND 3 DEGREES FOR PIPE 14 INCHES TO 64 INCHES. PIPE DEFLECTION FOR PVC PIPE SHALL BE NO GREATER THAN 3 DEGREES.

ALL MAINS SHALL BE INSTALLED IN DEDICATED STREETS. NON-POTABLE WATER LINES ARE TO MAINTAIN A 5 FOOT MINIMAL HORIZONTAL SEPARATION (EDGE TO EDGE) BETWEEN SANITARY SEWER LINES, AND 10 FOOT MINIMAL HORIZONTAL SEPARATION (EDGE TO EDGE) BETWEEN POTABLE WATER LINES.

DURING CONSTRUCTION WHENEVER THE NEW NON-POTABLE WATER LINE PIPE IS LEFT UNATTENDED TEMPORARY PLUGS MUST BE INSTALLED AT ALL OPENINGS.

VALVES SHALL NOT BE LOCATED IN CONCRETE AREAS, SUCH AS SIDEWALKS, CROSSPANS, APRONS, OR CURB AND GUTTER. ONCE ASPHALT PAVING IS COMPLETE ALL VALVES SHALL BE RAISED TO ¼ INCH BELOW FINAL PAVEMENT GRADE AND HAVE A 12 INCH CONCRETE COLLAR PLACED AROUND THE VALVE LID FOR REINFORCEMENT. THE CONCRETE COLLAR SHOULD BE MEASURED FROM THE OUTSIDE DIAMETER OF THE VALVE LID.

NON-POTABLE WATER VALVES SHALL BE LOCATED AT THE PERCEPTIBLE INTERSECTION OF PROPERTY LINES AT ALL CROSS STREETS, AND AT STRATEGIC LOCATIONS, TO ENSURE THAT NO MORE THAN 600 FEET OF MAIN OR ONE RESIDENTIAL BLOCK MAY BE OUT OF SERVICE FOR ANY ONE SINGLE BREAK.

ALL NON-POTABLE WATER VALVE LIDS SHALL BE CAST DUCTILE IRON, TRIANGULAR IN SHAPE, AND LABELED WITH THE WORDING "IRRIGATION".

AIR VACUUM RELEASE VALVES ARE REQUIRED AT ALL HIGH POINTS LOCATED WITHIN THE NON-POTABLE SYSTEM.

BLOWOFFS TO THE NON-POTABLE SYSTEM ARE TO BE LOCATED WITHIN CUL-DE-SACS, DETENTION PONDS, OR OPEN SPACE AREAS FOR EASY ACCESS TO PRIME THE SYSTEM EACH IRRIGATION SEASON.

ALL BENDS, TEES, PLUGS, DEAD-ENDS, WET TAPS, AND BLOWOFF ASSEMBLIES SHALL BE DESIGNED AND CONSTRUCTED WITH CONCRETE THRUST BLOCKS.

ALL RESIDENTIAL NON-POTABLE WATER SERVICES SHALL BE 1 INCH TYPE "K" COPPER AND USE COMPRESSION FITTINGS ONLY. UNLESS OTHERWISE NOTED, OR APPROVED.

NON-POTABLE WATER SYSTEMS ARE TO BE IDENTIFIED AT ALL ENTRANCES INTO A NEW DEVELOPMENT WITH WARNING SIGNS. THE WARNING SIGNS SHALL BE A REFLECTIVE WHITE BACKGROUND WITH

RED LETTERING AND A RED BORDER. THE SIGN SHALL READ “NON-POTABLE WATER IN USE FOR IRRIGATION, NOT FOR CONSUMPTION, OR PLAY”

NON-POTABLE WATER LINE TESTING DOCUMENTS ARE REQUIRED TO BE SUBMITTED TO THE CITY OF EVANS ENGINEERING DIVISION IN A TIMELY MANNER. TYPICAL TESTING DATA INCLUDES BUT ARE NOT LIMITED TO THIRD PARTY PRESSURE TESTING, AND TRENCH COMPACTION TESTING.

ALL NEW NON-POTABLE WATER LINES ARE TO BE ISOLATED, TESTED, AND APPROVED BY THE CITY OF EVANS ENGINEERING DIVISION PRIOR TO OPENING THE NEW LINE.

NON-POTABLE WATER VALVE ELEVATIONS ARE APPROXIMATE AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS.