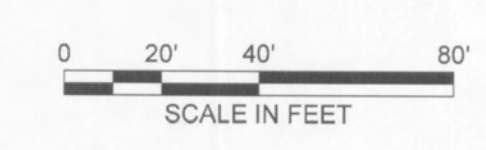


WATER SERVICE LINE PLAN

- WATER SERVICE LINE NOTES:**
- MATERIALS AND WORK FOR THE WATER SERVICE LINE AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CITY OF FALLON, MO, DEVELOPMENT CODE SECTION 700.580 "SPECIFICATIONS FOR INSTALLATION OF WATER MAINS, SERVICES, HYDRANTS AND TESTING," DETAILS INDICATED HEREIN, AND THE GOVERNING PLUMBING CODE.
 - CONNECTION OF THE WATER SERVICE LINE TO THE EXISTING WATER MAIN SHALL BE ACCOMPLISHED WITH A CORPORATION STOP (BALL VALVE) DIRECT TAPPED INTO THE WATER MAIN WHILE THE MAIN REMAINS IN SERVICE. CORPORATION STOP SHALL BE IN ACCORDANCE WITH AWWA C800 AND SHALL BE A MUELLER 300 OR APPROVED EQUAL.
 - WATER SERVICE LINE MATERIAL SHALL BE ONE OF THE FOLLOWING:
 - SEAMLESS, ANNEALED, SOFT TEMPER, FLEXIBLE TYPE "K" COPPER TUBING FOR UNDERGROUND SERVICE AND CONFORMING TO ASTM B88 AND AWWA C800.
 - HIGH DENSITY POLYETHYLENE PIPE (HDPE) PE 3408 RATED AT 200 PSI AND CONFORMING TO ASTM D3350, ASTM D3035, AWWA C901, AND PLASTIC PIPE INSTITUTE'S (PPI) TR4.
 - APPROVED EQUAL.
 - SEE DETAILS ON DRAWING CP15 FOR EXCAVATION, BEDDING, AND BACKFILL REQUIREMENTS FOR WATER SERVICE LINE INSTALLATION. WATER SERVICE LINE SHALL HAVE A MINIMUM COVER OF THREE AND ONE-HALF (3.5) FEET.
 - FITTINGS FOR THE WATER SERVICE LINE SHALL GENERALLY MATCH THE MATERIAL OF THE PIPE AND MEET OR EXCEED THE PRESSURE RATING OF THE PIPE MATERIAL.
 - WHERE BENDS ARE INDICATED, CONTRACTOR MAY INSTEAD ACHIEVE THE NECESSARY CHANGE IN DIRECTION BY INSTALLING THE WATER SERVICE LINE ON A RADIUS. ANY WATER SERVICE LINE INSTALLED ON A RADIUS SHALL BE DONE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS AND RESTRICTIONS.
 - THRUST RESTRAINT SHALL BE ACCOMPLISHED BY A PROPERLY DESIGNED JOINT RESTRAINT SYSTEM OR CONCRETE THRUST BLOCKS - SEE DETAILS ON DRAWING CP15. IF CONTRACTOR CHOOSES TO UTILIZE A JOINT RESTRAINT SYSTEM, CONTRACTOR SHALL SUBMIT THE RESTRAINT SYSTEM TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION OF THE WATER SERVICE LINE.
 - UNLESS INDICATED OTHERWISE, WATER VALVES SHALL BE BALL VALVES OR GATE VALVES CAPABLE OF OPERATION FROM THE GROUND SURFACE. THE VALVES SHALL HAVE A WORKING PRESSURE OF 250 PSI AND BE EQUIPPED WITH ADJUSTABLE VALVE BOXES - SEE DETAILS ON DRAWING CP15.
 - THE YARD HYDRANT INDICATED SHALL BE A FREEZE RESISTANT SANITARY YARD HYDRANT WITH BACKFLOW PROTECTION IN ACCORDANCE WITH THE REQUIREMENTS OF ASSE 1057. YARD HYDRANT SHALL BE CENTERED WITHIN FOUR (4) BOLLARDS, SPACED IN A 4' BY 4' SQUARE PATTERN, FOR PROTECTION.



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AMEREN Date: 06/27/2014 Curt W. Kimmel Professional Engineer #2209701097					
O'FALLON RENEWABLE ENERGY CENTER WATER SERVICE LINE PLAN CP14					

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