



NOTE:
WATER SERVICE LINE EXTENSION FROM CURB STOP TO METER SHALL BE INSTALLED BY SKILLED WORKMEN AT COST OF CUSTOMER IN ACCORDANCE WITH RULES & REGULATIONS AND DETAILED SPECIFICATIONS OF M.T.M.A. SEE (SD-022A) FOR CONDENSED INSTALLATION SPECIFICATION.

MOON TOWNSHIP MUNICIPAL AUTHORITY ALLEGHENY COUNTY PENNSYLVANIA		WATER DISTRIBUTION SYSTEM SERVICE LINE EXTENSION AND SERVICE LINE CONNECTION CONDENSED INSTALLATION SPECIFICATION
Not to scale	August 2019	Standard Detail SD-022

WATER DISTRIBUTION SYSTEM
SERVICE LINE EXTENSION AND SERVICE LINE CONNECTION
CONDENSED INSTALLATION SPECIFICATION

1. **GENERAL**- SERVICE LINE EXTENSION INCLUDES CONNECTION OF SERVICE LINE TO CURB STOP; SERVICE LINE FROM CURB STOP TO POINT WITHIN STRUCTURE HOUSING METER OR METER PIT IF APPROVED; ANGLE VALVE OR BALL VALVE/GATE VALVE SAME SIZE AS SERVICE LINE; PRESSURE REGULATOR AND A UNION IMMEDIATELY BEFORE THE METER; THE METER FOLLOWED BY A UNION; DUAL CHECK VALVE OR, IF REQUIRED BY AUTHORITY, A REDUCED PRESSURE ZONE BACKFLOW PREVENTER; AND A STOP AND WASTE VALVE; THE METER AND METER SPUDS AND REMOTE READ OUT SYSTEM INCLUDING GENERATOR AND REGISTER UNIT AND INTERCONNECTING WIRES SHALL BE FURNISHED AND INSTALLED BY THE AUTHORITY.
2. **SIZE**- MINIMUM SIZE SERVICE IS 3/4-INCH DIAMETER FOR COPPER LINES AND 1" FOR PE LINES.
3. **MATERIALS**- LINES TO BE DIRECT BURIED SHALL BE "TYPE K" SOFT COPPER TUBING PER FED. SPEC. XX-I-799 WITH MECHANICAL COUPLING JOINTS OR CTS DR9 PE (250 psi) PER NSF 14&61 WITH O.D. COMPRESSION COUPLING JOINTS USING THE APPROPRIATE STAINLESS STEEL STIFFENERS AND 12 GA AWG TRACER WIRE. COPPER PIPE SHALL BE AQUASHIELD "TYPE K" SOFT COPPER COATED WITH NOVA POL POLYETHYLENE LLDPE EXTRUSION RESIN PP-0118-F COATING TO MEET MINIMUM OF 0.025 INCHES THICKNESS, AS MANUFACTURED BY KAMCO PRODUCT INC., MUELLER INDUSTRIES, INC. PLUMBSHIELD, ON COPPER SERVICE LINES. NO SOLDERED JOINTS ARE TO BE USED OR APPROVED EQUAL.
4. **INSTALLATION**- LAY IN STRAIGHT LINE AS POSSIBLE AT RIGHT ANGLES TO STREET; MINIMUM 4 FEET COVER. BOTTOM OF TRENCH SHALL BE EXCAVATED TO CONFORM TO CURVATURE OF PIPE AND AFFORD UNIFORM BEARING SURFACE. DO NOT LAY ON ROCK BUT EXCAVATE MINIMUM OF 6 INCHES BELOW BOTTOM OF PIPE AND BACKFILL WITH SAND OR CLAY, WELL TAMPED, PE PIPE MUST BE INSTALLED WITH 12ga AWG TRACE WIRE.
SERVICE THROUGH WALL: THE REQUIRED SLEEVE SHALL BE TWICE THE DIAMETER OF THE SERVICE LINE. LINKSEAL SHALL BE USED ON INSIDE, FLUSH WITH THE WALL, TO SEAL BETWEEN PIPE AND CASING. FOR COPPER SERVICES, NO FERCOs WILL BE PERMITTED FOR NEW INSTALLATIONS. FOR PE SERVICES, A SHIELDED FERNCO IS REQUIRED ON THE OUTSIDE END OF CASING AND MAY BE ACCEPTED IN LIEU OF LINKSEAL ON THE INSIDE.
SERVICE THROUGH FLOOR: SERVICES SHALL BE BROUGHT TO METER SPREAD HEIGHT (30"-36"). COPPER SHALL BE INSTALLED BY BENDING, DISTORTION - FREE, WITH TUBING BENDER TOOL
5. **METER PITS**- ARE REQUIRED ON ALL SERVICE LINE EXTENSIONS 200 FEET OR GREATER.
6. **INSPECTION**- LINE TO REMAIN UNCOVERED UNTIL AFTER INSPECTION. HYDROSTATIC TESTING IS REQUIRED ON LINES WITH UNIONS/COUPLINGS OR WHERE OTHERWISE DEEMED NECESSARY BY THE AUTHORITY; NO LOSS DUE TO LEAKAGE IS PERMITTED. NOTIFY AUTHORITY OF NAME, LOCATION AND TIME WHEN WORK IS READY FOR INSPECTION. METER SPREADS MUST BE IN PLACE AT THE TIME OF INSPECTION.
7. **WATER PRESSURE REDUCING VALVE**- SUITABLE FOR MAXIMUM LINE PRESSURE OF 300 PSI, A DELIVERY PRESSURE OF 45 TO 55 PSI, AND MANUFACTURED IN ACCORDANCE WITH ASSE 1003-1. VALVE SHALL BE WATTS MODEL LF25AUB-Z3 OR EQUAL WITH AN EASILY REMOVEABLE STAINLESS STEEL INTEGRAL STRAINER OR SHALL BE PRECEDED BY A SEPARATE Y-STRAINER. STRAINERS MUST BE CONSTRUCTED WITH STAINLESS STEEL SCREEN AND MUST BE ACCESSIBLE FOR REMOVAL AND CLEANING.
8. THE ELECTRICAL SYSTEM MUST BE PROPERLY GROUND IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE. PRIOR TO REPLACING AN EXISTING METALLIC WATER SERVICE LINE WITH A NON-METALLIC PIPE, CONSULT WITH AN ELECTRICIAN REGARDING PROPER GROUNDING.
9. **METER SPREADS**- ALL FITTINGS, INCLUDING THE STOP AND WASTE VALVE, MUST BE BRASS WITH THREADED IPS. SOLDERED JOINTS ARE ONLY PERMITTED AFTER THE STOP AND WASTE VALVE. METER SPREADS MUST BE 30" TO 36" OFF OF FINISHED FLOOR LEVEL. METER SPREAD, WITH THE EXCEPTION OF THE METER, SHALL BE OWNED AND MAINTAINED BY THE PROPERTY OWNER. COMPRESSION JOINTS ARE REQUIRED BEFORE THE METER. NO PACK JOINTS ARE PERMITTED.

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