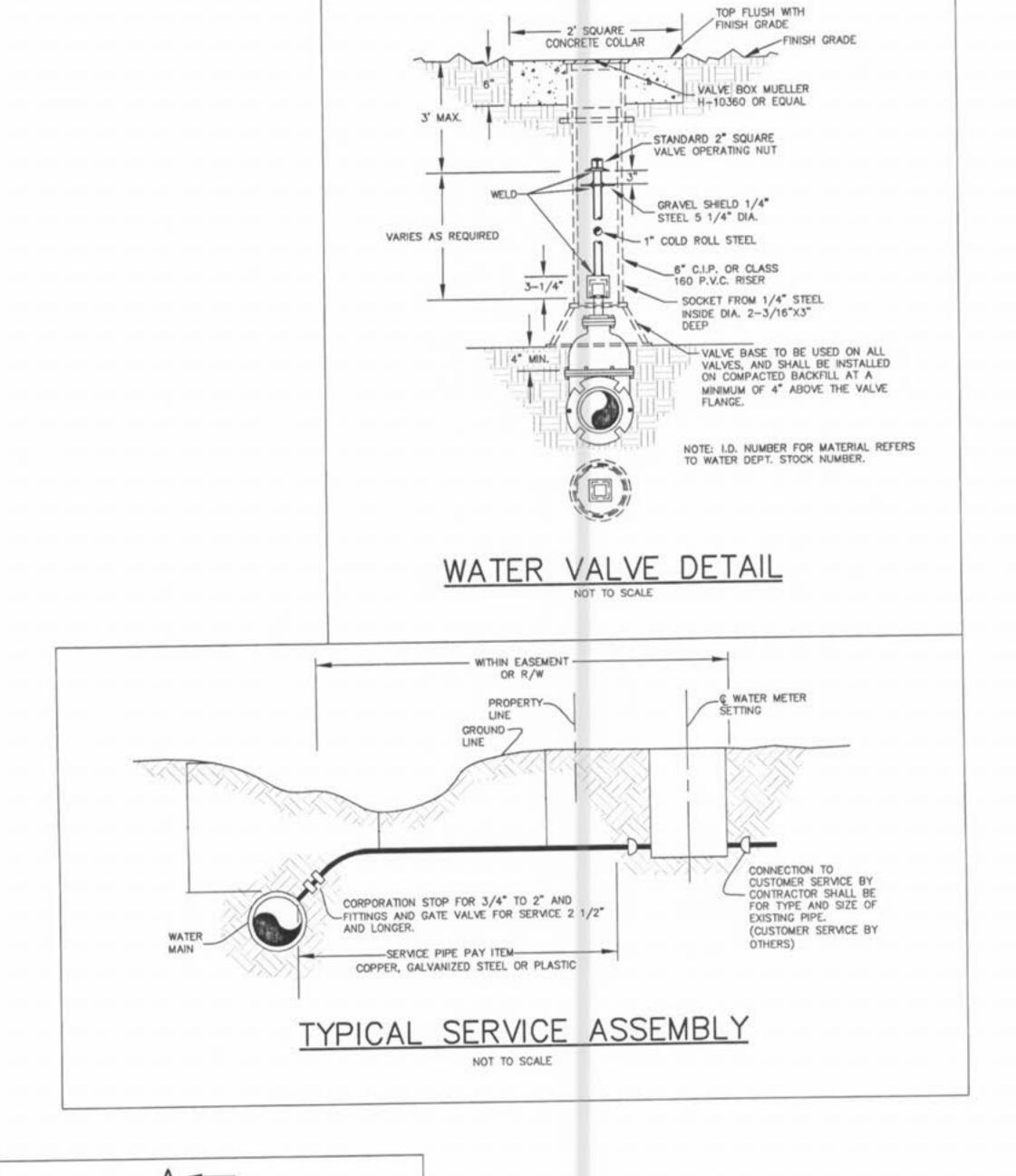
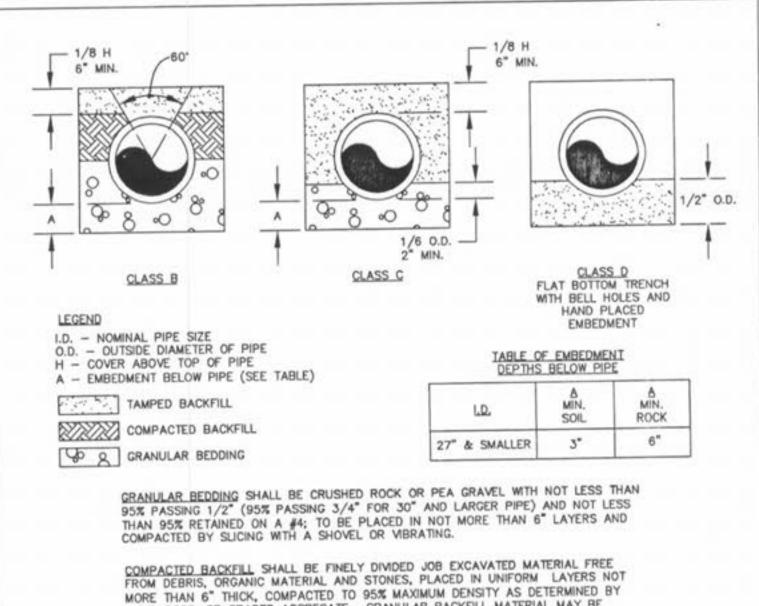


WATER MAIN & FIRE HYDRANT

NOT TO SCALE





WATER MAIN EXCAVATE FOR JOINT AS REQUIRED, PIPE IS TO BE-FULLY SUPPORTED. NO HIGH OR LOW SPOTS WILL BE EARTH FILL COPPER WATER-MAIN 6" OF 1/2" MINUS-CRUSHED STONE FILL TO 6" AVOVE TOP OF #8 SOLID COPPER 6" OF 1/2" MINUS -TRACER WIRE -NO. 12 UL. APPROVED CRUSHED STONE 600V. INSULATED (PRIOR TO PIPE

MATERIAL MAY BE SUBSTITUTED FOR ALL OR PART OF TAMPED BACKFILL. TRENCH BACKFILL SHALL BE AS REQUIRED IN THE "LAYING AND BACKFILL" SECTION OF THE DETAILED SPECIFICATIONS.

EMBEDMENT THE TYPE OF EMBEDMENT TO BE USED SHALL BE AS SPECIFIED IN THE PLANS AND SPECIFICATIONS.

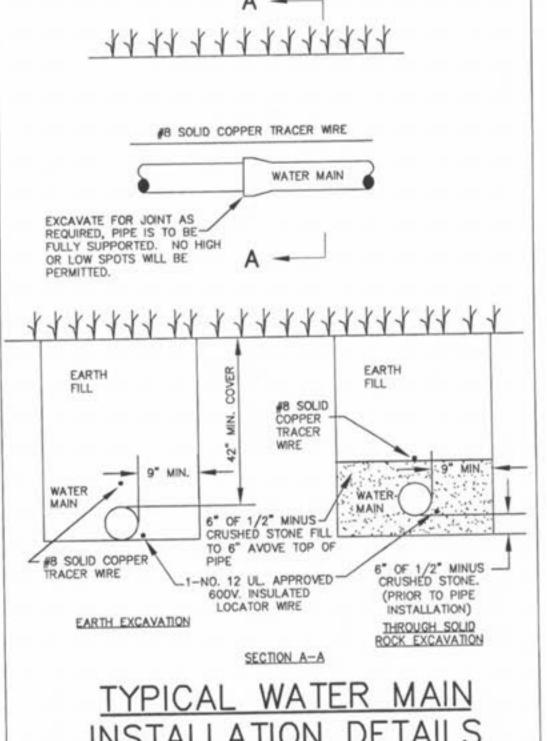
A.S.T. D698, OR GRADED AGGREGATE. GRANULAR BACKFILL MATERIAL MAY BE SUBSTITUTED FOR ALL OR PART OF COMPACTED BACKFILL.

TAMPED BACKFILL SHALL BE FINELY DIVIDED JOB EXCAVATED MATERIAL FREE FROM DEBRIS, ORGANIC MATERIAL AND STONES, HAND PLACED IN UNIFORM LAYERS NOT

MORE THAN 8" THICK AND TAMPED AROUND CONDUIT PIPE. GRANULAR BACKFILL

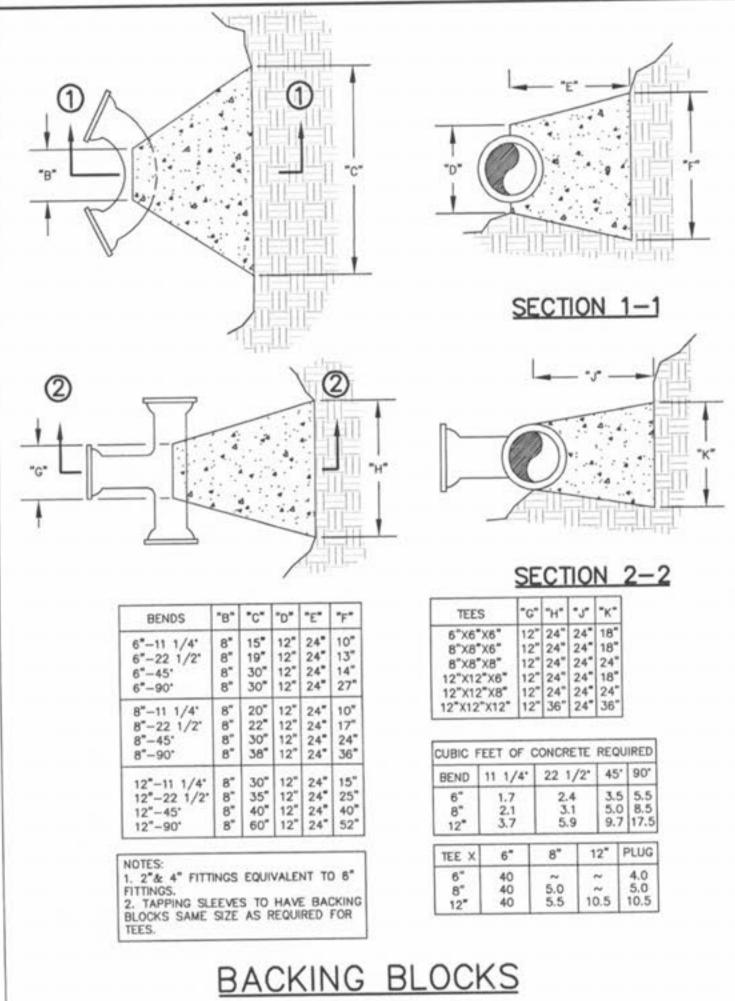
WATER MAIN EMBEDMENT

TRACER WIRE REQUIRED ON ALL WATER MAINS

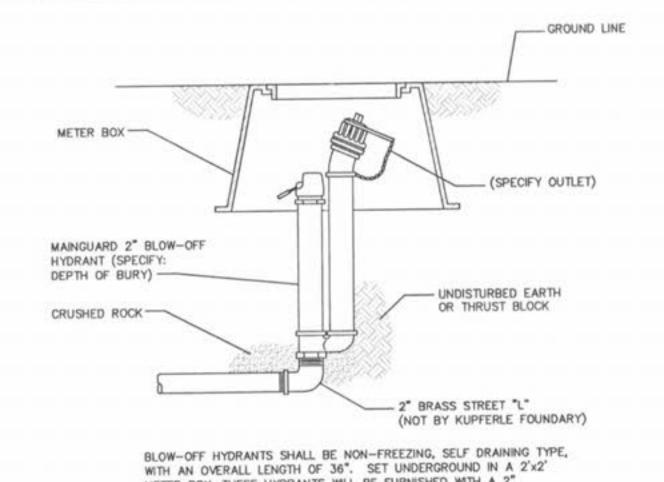


NOT TO SCALE

- 1. All water lines shall be laid at least 10 feet horizontally from any sanitary sewer or manhole. An 18" vertical clearance from outside of pipe to outside of pipe shall be maintained wherever water lines must cross sanitary sewers or laterals. The water line shall be laid at such an elevation that the bottom of the water line is above the top of the drain or sewer. A full length of water pipe shall be centered over the sewer line to be crossed so that the joints will be equally distant from the sewer and as remote therefrom as possible. This vertical separation shall be maintained for that portion of the water line located within 10 feet horizontally, of any sewer or drain it crosses.
- 2. All PVC water pipe shall conform to ASTM D2241, SDR 21 Standard specification for P.V.C. Pressure Pipe, 200 P.S.I. working pressure for water, with approved joint.
- 3. Water lines, valves, sleeves, meters, and fittings shall meet all specifications and installation requirements of the Public Water Supply District No. 2 of St. Charles County.
- 4. All water hydrants and valves shall be ductile Iron and installed in accordance with plans and details. All ductile iron pipe for water mains shall conform to A.W.W.A. Specifications C-106 and/or C-108. The ductile iron fittings shall conform to A.W.W.A. Specification CC-110. All rubber gasket joints for water ductile iron pressure pipe and fittings shall conform to A.W.W.A. Specification
- 5. No flushing hydrants or water meters shall be located in driveways, sidewalks or other hard surface areas.







METER BOX, THESE HYDRANTS WILL BE FURNISHED WITH A 2" FIP INLET, A NON-TURNING OPERATING ROD, AND SHALL OPEN TO THE LEFT. ALL OF THE WORKING PARTS SHALL BE OF BRONZE-TO BRONZE DESIGN, AND BE SERVICABLE FROM ABOVE GRADE WITH NO DIGGING. THE OUTLET SHALL ALSO BE BRONZE AND BE 2-1/2" NST. HYDRANTS SHALL BE LOCKABLE TO PREVENT UNAUTHORIZED USE AS MANUFACTURED BY KUPFERLE FOUNDRY CO., ST. LOUIS, MO, OR APPROVED EQUAL.

(SPECIFY OVERALL LENGTH 6" SHORTER THAN NORMAL DEPTH OF BURY. MINIMUM OPENING IN METER BOX SHOULD BE 10".)

ECLIPSE NO. 78 BLOW-OFF HYDRANT

