

GUTTER SUMPS FOR VERTICAL CURB METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. W.S.H. Ch. J.C.K. 1992 SHEET 55

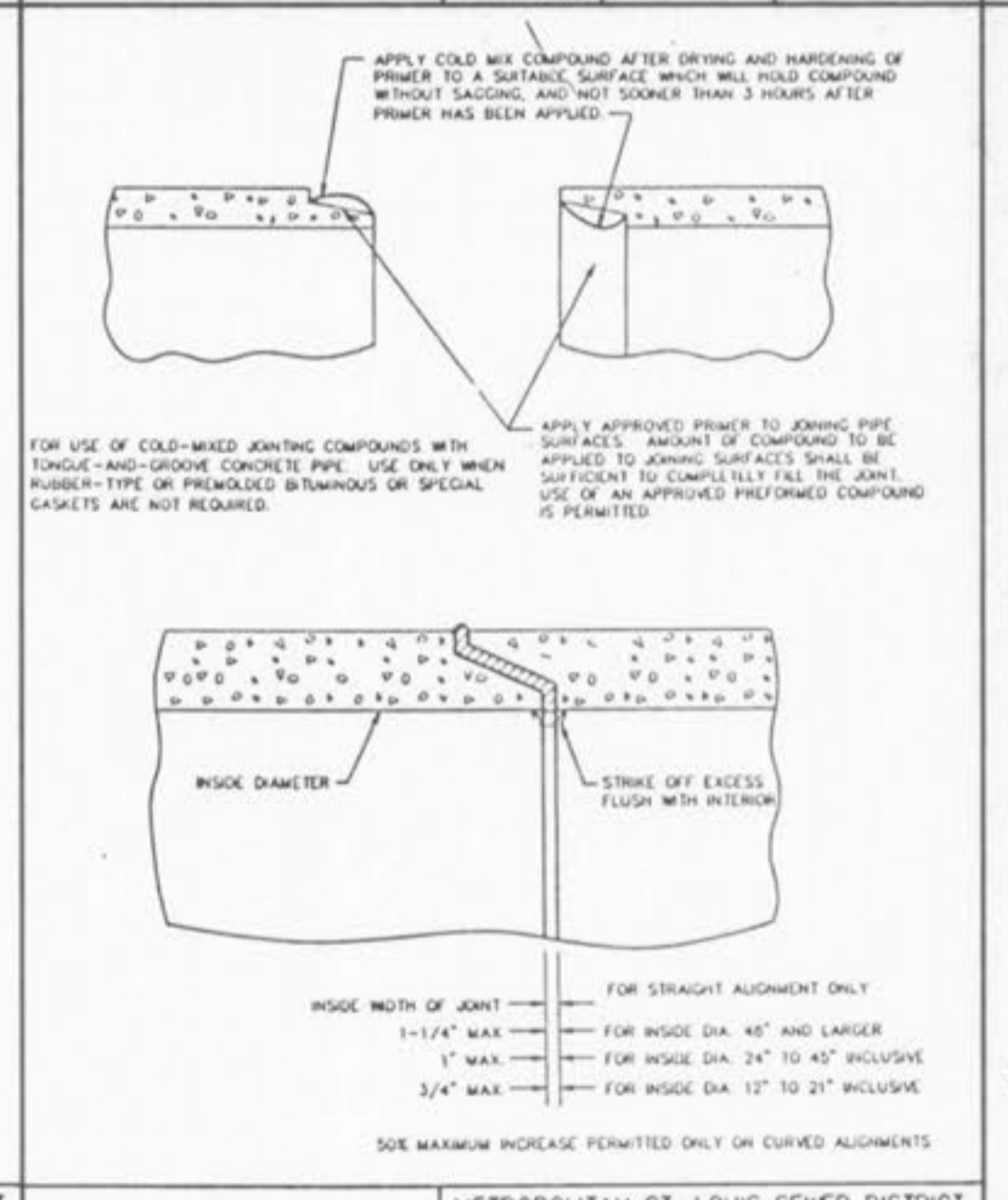
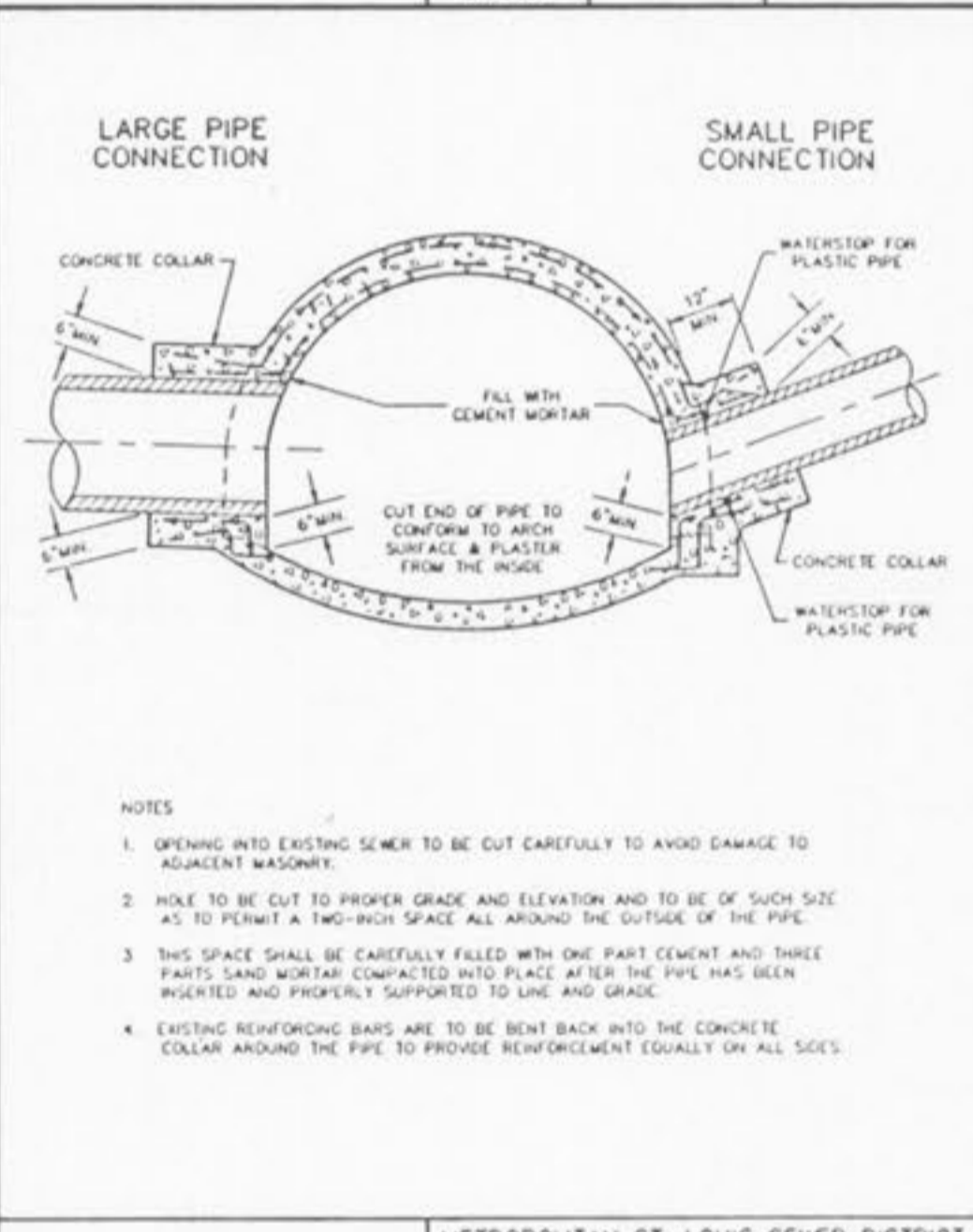
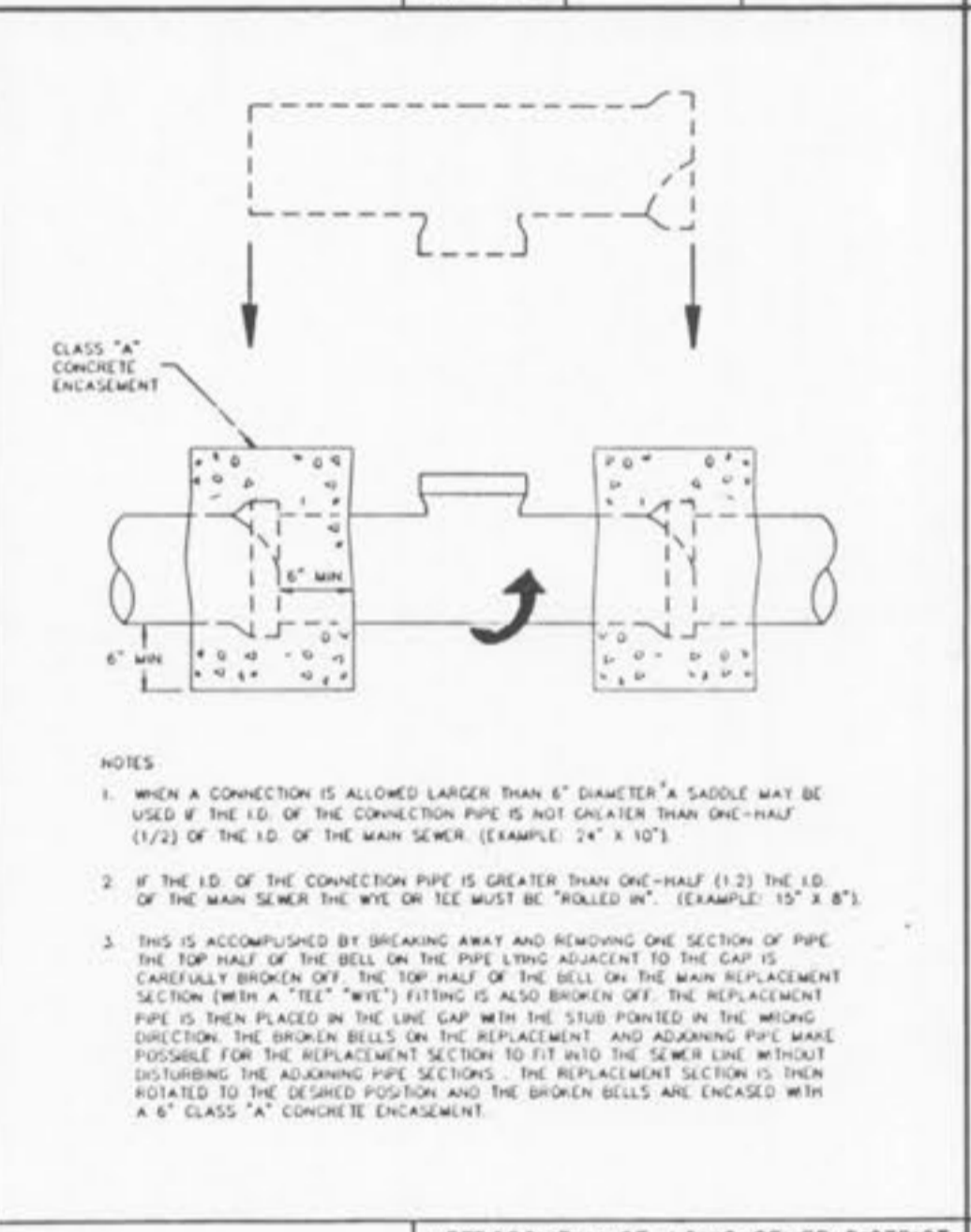
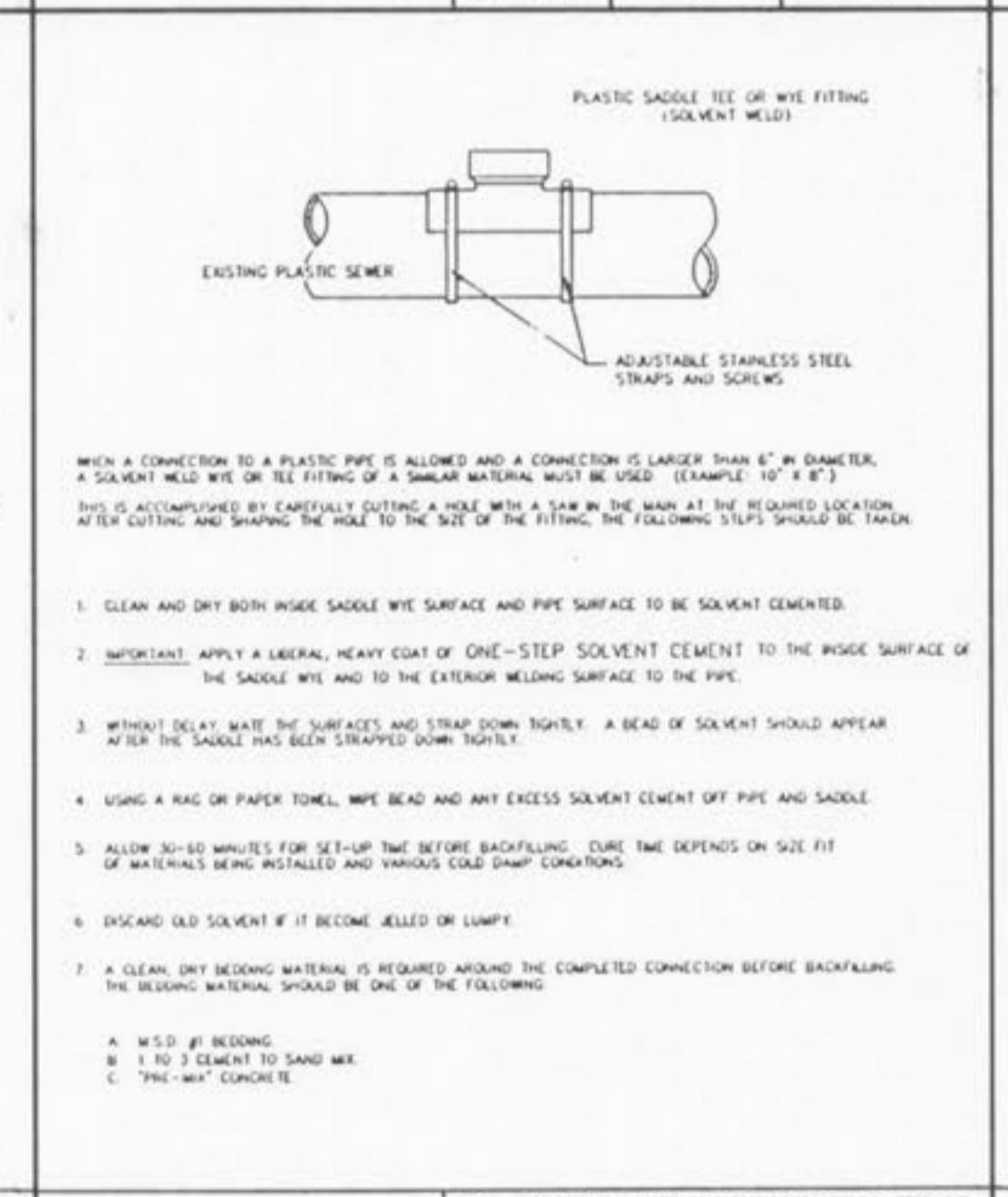
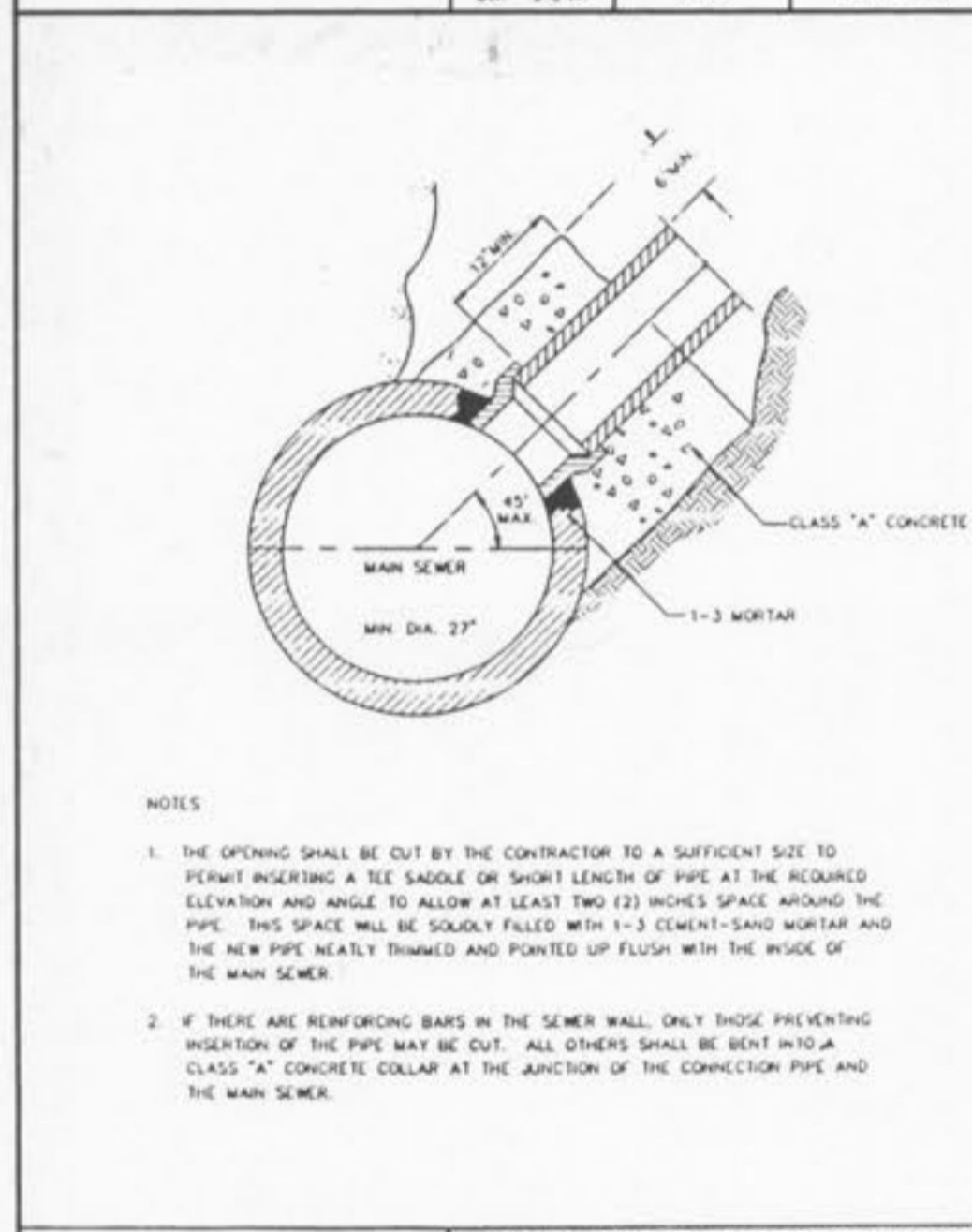
GUTTER SUMP FOR LIP CURB METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. R.G.W. Ch. J.C.K. 1992 SHEET 56

FLARED END SECTION METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. W.S.H. Ch. J.C.K. 1992 SHEET 57

STORMWATER CHANNELS METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. R.G.W. Ch. J.C.K. 1992 SHEET 58

HOUSE CONNECTION TO EXISTING TEE OR WYE METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. D.A.B. Ch. J.C.K. 1992 SHEET 59

MACHINE TAP METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. W.S.H. Ch. J.C.K. 1992 SHEET 60



HOUSE CONNECTIONS ALLOWED BY TEE SADDLE METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. D.A.B. Ch. J.C.K. 1992 SHEET 61

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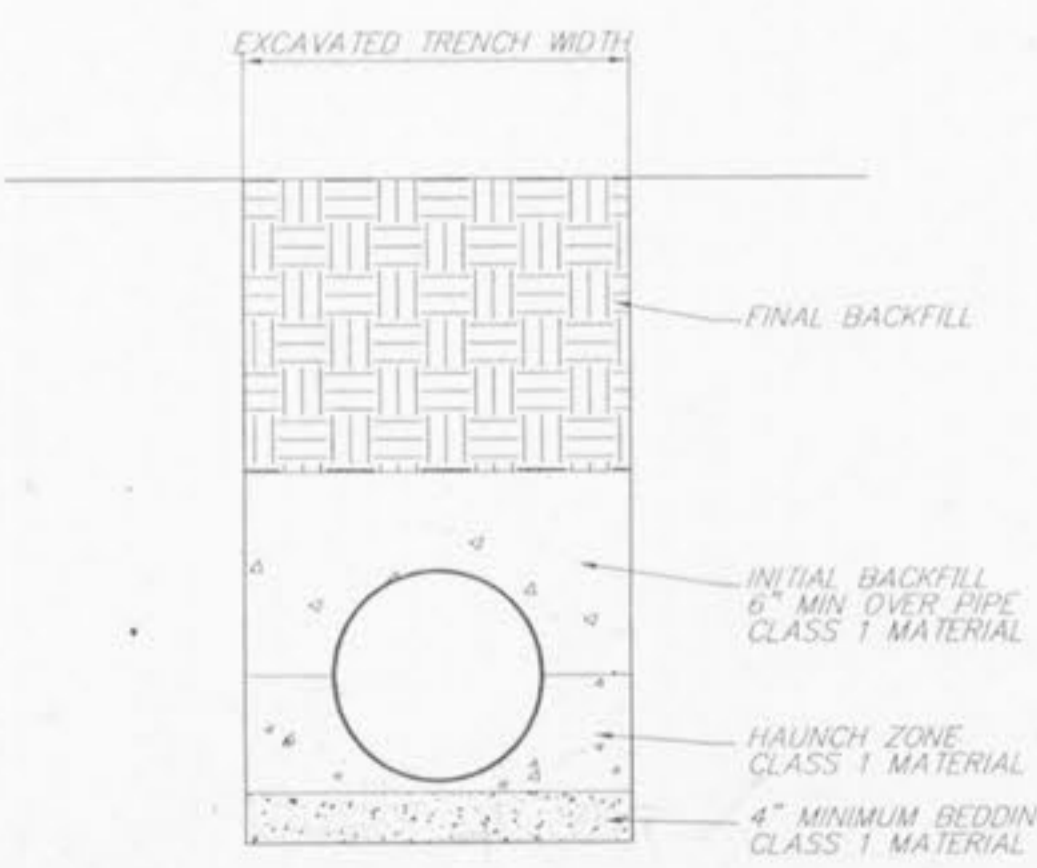
"ROLL-IN" (FOR EXISTING CLAY OR CONCRETE PIPE) METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. D.A.B. Ch. J.C.K. 1992 SHEET 63

CONNECTIONS TO LARGE SEWERS METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. W.S.H. Ch. J.C.K. 1992 SHEET 64

FORCE MAIN CLEANOUT (6\"/>

TONGUE AND GROOVE CONCRETE PIPE JOINTS METROPOLITAN ST. LOUIS SEWER DISTRICT Standard Details of Sewer Construction Dr. D.A.B. Ch. J.C.K. 1992 SHEET 66

H.D.P.E. PIPE DETAIL



- The use of High Density Polyethylene Corrugated pipe A.D.S. N12 or Equal will be permitted as an acceptable alternative to reinforced concrete pipe. Pipe shall meet A.S.T.M. D-2321 and A.A.S.H.T.O. M-294-921. Concrete flared end sections and inlet structures shall be required. Pipe must have smooth interior wall and is not to be used inside the Public Right-of-Way. All concrete pipe or HDPE pipe shall be installed with o-ring rubber type gaskets per M.S.D. Standard Construction Specifications or Manufacturer.
- In typical conditions the minimum trench width is determined by the size of the pipe and the ability to get compaction equipment between the pipe and the trench walls. The minimum trench width should not be less than the outside diameter plus 16 inches or the pipe outside diameter times 1.25 plus 12 inches, whichever is greater. High speed trenchers may enable satisfactory installation of pipe in narrower trenches. Poor in situ soil conditions such as peat, muck, running sands, or expansive clays will require substantially wider backfill as well as deeper foundation and bedding. Trench width and foundation depth should be based on a thorough site investigation.
- Backfill in the area up to the springline should be carefully placed and compacted to achieve a minimum E value of 1,000 psi as detailed in ASTM D2321. A minimum of 12\"/>