

1/2" P.V.C. testing pipe

3/4" - 1 1/4" gap at pipe ends provided to maintain joint flexibility

Form smooth and uniform channels in concrete fill

PLAN VIEW

Flexible manhole joints

SLOPE 1:12

1/2" P.V.C. testing pipe

Concrete fill in sump after completion of acceptance tests

SANITARY SEWER MANHOLE
(18" AND LARGER DIA. SEWERS)

The diagram illustrates the standard bedding requirements for a pipe installation. It consists of two cross-sectional views of a pipe within its bedding.

Top Section:

- The bedding depth is labeled as **12" min.**
- The haunch depth is labeled as **4" min.**
- The bedding material is labeled as **MDOT Class II or IIA granular material compacted in place to 95% max. density**.
- A **Trace wire, #12 AWG HS-CCS, HDPE 30 Mil or approve alternate** is shown within the bedding.
- Aggregate/stone spading the haunch area is required**.

Bottom Section:

- The bedding depth is labeled as **30" min.**
- The haunch depth is labeled as **4" min.**
- The bedding material is labeled as **2 layers compacted to 95% max. density**.
- Crushed aggregate/stone spading the haunch area is required**.

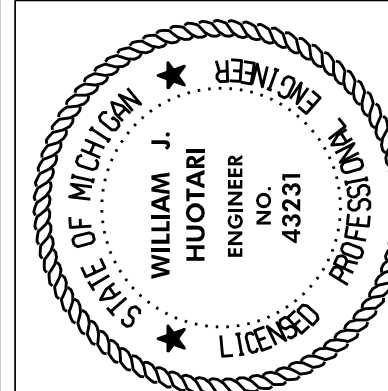
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- Diagram illustrating the curb and gutter installation details:
- In grass lawn, ditch or field, provide supplier grouted taper. In gravel, asphalt or concrete, provide grouted taper to underside of pavement or gravel (type "M" mortar)
 - Elastic joint seal
 - Wrap with geomembrane properly secured
 - Back plaster 1/2" min. thickness from top brick to 2" min. below bottom brick (type "M" mortar)
 - After mortar has set, apply 1/4" elastomeric seal
 - Backplaster from frame to cone (type "M" mortar)

MATERIALS

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Diagram illustrating the installation of a trenchless sewer repair system. The system consists of a trench, a pipe, and bedding details.

- Property or easement line**: Indicated by a dashed line at the top of the trench.
- 2"x2"x8' locati placed in back**: A label for a location marker placed in the backfill.
- Backfill per plan**: The material used to fill the trench around the pipe.
- PVC Sch. 40 or SDR 23.5 with glued joints (typ.)**: The material and joint type for the pipe.
- 6" riser**: The vertical section of the pipe.
- 45° Bend**: The angle of the pipe bend.
- 12"**: The depth of the bedding layer.
- Bedding per plan**: The material used for the bedding layer.
- Min. 1/8" fall per foot**: The required slope of the pipe.
- Chemically fused or glued on watertight cap**: The type of cap used to seal the pipe.
- Place pipe against undisturbed ground backfill with care to avoid settlement**: A note on the installation of the pipe.
- 30" Min. - 60" Max.**: The length of the pipe section.
- 6" factory installed premium joint-wyes for plastic sewer Pipe - tees for concrete sewer pipe**: The type of joint used for the pipe.
- Basement service**: The location of the basement service.
- 8'**: The depth of the trench.
- 8.5' - 10'**: The depth of the trench.


[illegible]

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**3 FULL WORKING DAYS
BEFORE YOU DIG CALL**

811

Know what's below
Call before you dig



MISSOURI System Inc.

Contractor Note: The locations of existing underground utilities are not always obvious. The contractor shall determine the exact location of all existing utilities before commencing work. They agree to be fully responsible for any and all damages which might be occasioned by failure to locate and properly preserve any and all underground utilities.

CONTRACT NO. XX-XX
PROJECT NO. XX XXX X

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