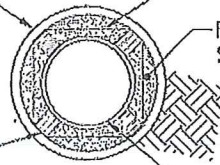


| CARRIER PIPE | STEEL CASING PIPE |       |       | TYPE OF FILL |
|--------------|-------------------|-------|-------|--------------|
| DIAMETER     | DIAMETER          | THICK | GRADE |              |
| 6"           | 12"               | 0.5"  | 1.0%  | SAND         |

SLEEVE (12" DIA MIN - CLASS 52 DIP)

MINIMUM OF FOUR TREATED OR  
WULMANIZED HARDWOOD SKIDS  
BAND TO THE CARRIER PIPE  
(EQUALLY SPACED)



STAINLESS STEEL STRAPPING

FOR SANITARY: GROUT OR  
SAND FILLED AS REQUIRED

CARRIER PIPE

SECTION A-A

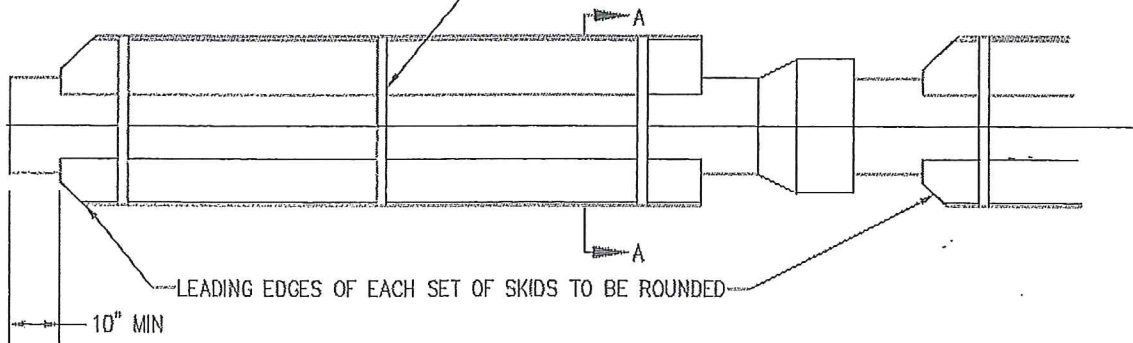
NOTES:

1. MINIMUM THICKNESS FOR NEW CASING PIPE IS 3/8" INCH.  
MINIMUM THICKNESS FOR USED CASING PIPE IS 1/2 INCH.
2. SLEEVE DIAMETER TO BE A MINIMUM OF 6" GREATER THAN  
THE LARGEST OUTSIDE DIAMETER OF THE CARRIER PIPE.

See attached  
2 pages for  
Specifications

BORING DETAIL - OPTION #1  
NTS

STRAPPING - (THREE PER LENGTH)



BORING PIPE SKID DETAIL  
NTS

8" MASONRY CLOSING

CARRIER PIPE

1-1/2" FELT WRAPPING  
PRESSURE MAINS ONLY

1-1/2" PIPE AT LOW END OF  
SLEEVE PIPE FOR DRAINAGE,  
PRESSURE MAINS ONLY

SLEEVE PIPE CLOSURE DETAIL  
NTS

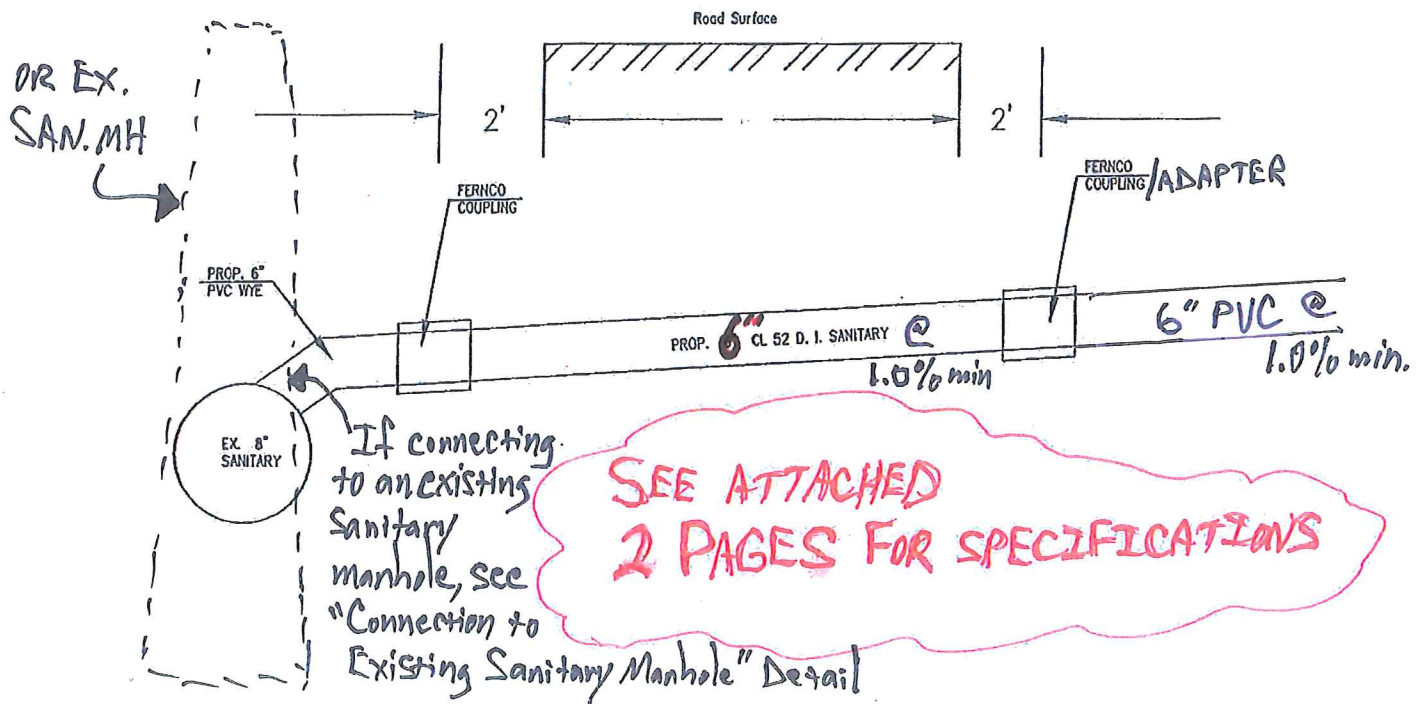
# BORE DETAIL - OPTION #2

nts

Road Surface



CONTRACTOR JACK & BORE  
SANITARY CONN.  
(NO OPEN CUTTING)  
INSTALL 6" CL 52 DUCTILE IRON PIPE



## **1042.02 CONNECTION SPECIFICATIONS.**

(a) Sanitary sewer service connections to the public sewerage system shall be constructed of any of the materials in the following table for allowable material:

| <u>Material</u>   | <u>Material Specifications</u>                                   | <u>Joint Specifications</u>                     |
|---|--|---|
| Vitrified clay<br>(extra-strength clay pipe)                | ASTM-C-700-71T   | ASTM-C-425                                      |
| Cast iron   | ANSI-A21.11 and<br>AWWA-C111                                     | Rubber slip joints w/lead<br>joints on fittings |
| Ductile iron  | ANSI-A21.51 and<br>AWWA-151                                      | Rubber slip joints w/lead<br>joints on fittings |
| ABS composite pipe<br>(solid wall)                          | 4" and 6" SDR 23.5<br>meeting the requirements<br>of ASTM D-1751 |   |
| ABS composite pipe<br>(truss pipe); PVC<br>white truss pipe | 8" through 15" meeting<br>the requirements of<br>ASTM D-2680     | ASTM D-3212                                     |
| Polyvinyl chloride<br>pipe (PVC)                            | ASTM F-949   |   |

(b) The furnishing and/or installation of pipe, pipe fittings and jointing materials, other than those specified herein, may be submitted to the City Engineer for review and approval as an alternate material. The submittal of an alternate material does not constitute the use of the alternate.

(c) If a joint is selected, having a design pattern different from the Uniloc or Amvit pattern used in the public sanitary sewerage system wye or riser, then the person authorized to make the connection as herein provided shall obtain a compatible vitrified transition fitting having a spigot end compatible with the selected pattern.

(d) Connections to the sanitary sewer main other than the standard four-inch (plastic) or six-inch size shall be made in an approved manhole. Any connection other than where a four-inch (plastic) or six-inch wye or curb connection is provided shall also be made in an approved manhole. All approvals shall be made by the City Engineer.

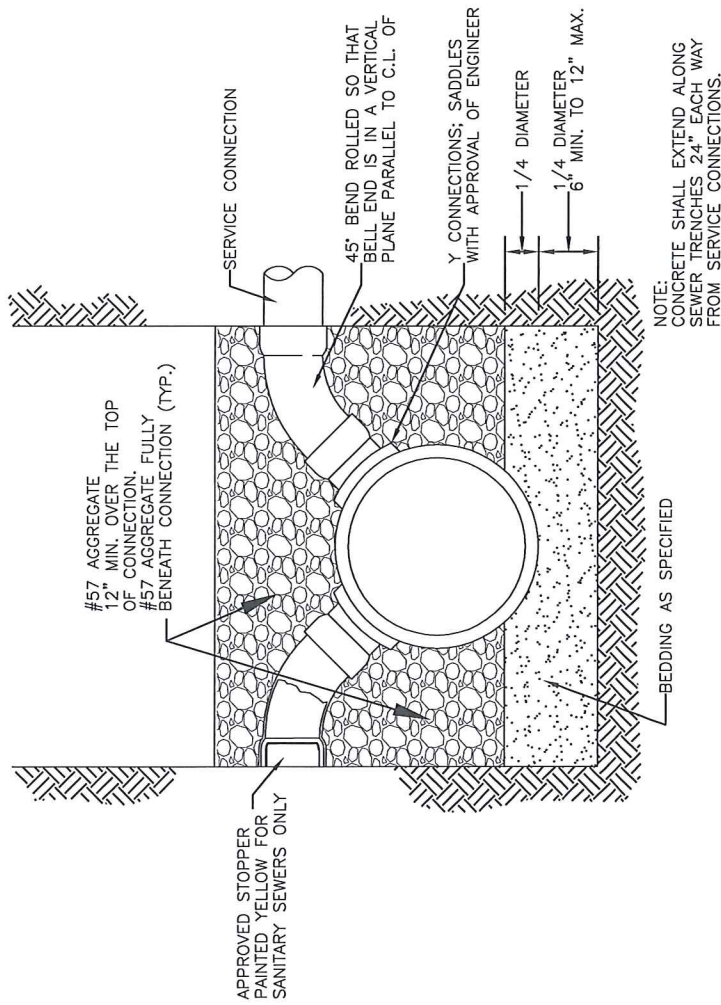
(Ord. 09-119. Passed 11-17-09; Ord. 11-73. Passed 6-21-11.)



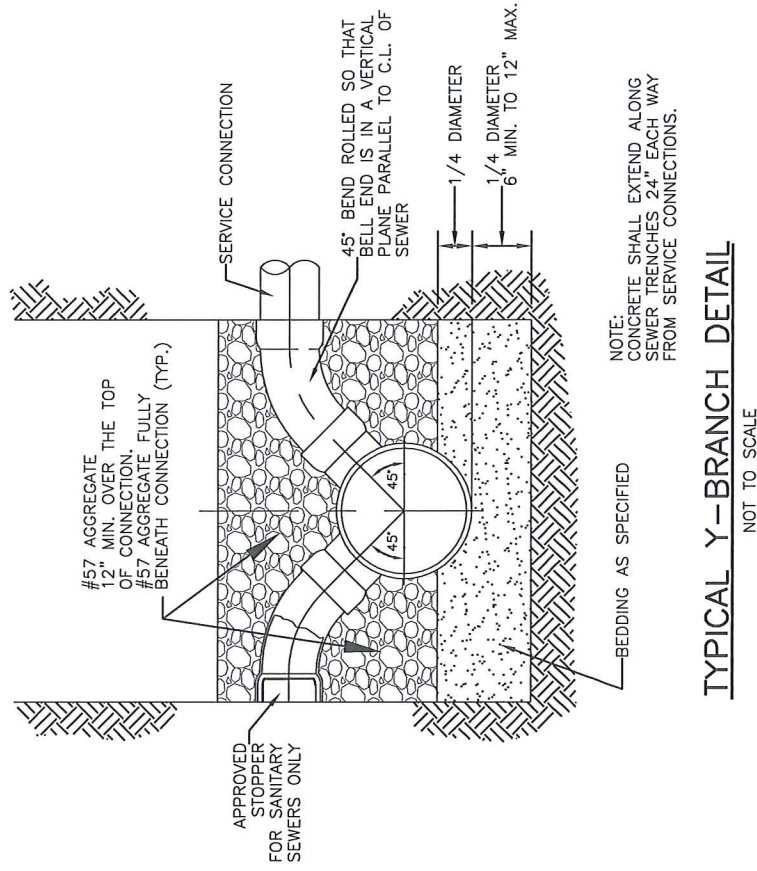
1042.09 INSTALLATION SPECIFICATIONS.

(a) Sanitary Sewers: All service connections for sanitary sewers shall be installed in accordance with the recommended practice for installing clay sewer pipe as provided for in the American Society for Testing Materials (ASTM) Specification C 12-64, as amended or for installing polyvinyl chloride (PVC) pipe as provided for in the "Uni-Bell Handbook of PVC Pipe." The pipe comprising the connection shall be laid at a minimum depth of four feet and a maximum depth of twenty-one feet below the finished ground surface. The pipe shall be bedded upon a granular foundation course consisting of uniformly graded one-fourth inch to one-half inch crushed gravel or stone for a minimum of six inch depth beneath the pipe. The connection pipe shall be laid with the bell ends upstream and the pipe shall be so bedded in the foundation course as to provide a uniform bearing along the entire barrel of the sewer and 120 degrees of its periphery. Under no circumstances shall the service connection be covered prior to inspection by the City Engineer or his or her duly authorized representative. Sanitary sewer service connections within public roadways or rights-of-way shall be laid in open cut trench as specified in this section, except as may be otherwise provided herein. Excavated earth and other materials removed from within the public roadway or right of way shall be removed from the site immediately upon excavation and promptly disposed of by the permittee. Backfill within the public right of way to the underside of the pavement and to within the 1:1 zone of influence of the roadway shall consist of thoroughly compacted premium crushed limestone or recycled Portland Cement Concrete (RPCC) meeting requirements of ODOT 304 limestone. Where no pavement exists the last three feet not under the pavement shall be original soil backfill. Repaving and reconditioning of all disturbed surfaces, including replacement of topsoil and reseeding, shall be done immediately upon completion of backfill. Permittee shall comply with the requirements of Chapter 1020.

(Ord. 09-119. Passed 11-17-09; Ord. 10-11. Passed 1-19-10.)



**TYPICAL SLANT DETAIL**  
NOT TO SCALE



**TYPICAL Y-BRANCH DETAIL**  
NOT TO SCALE

