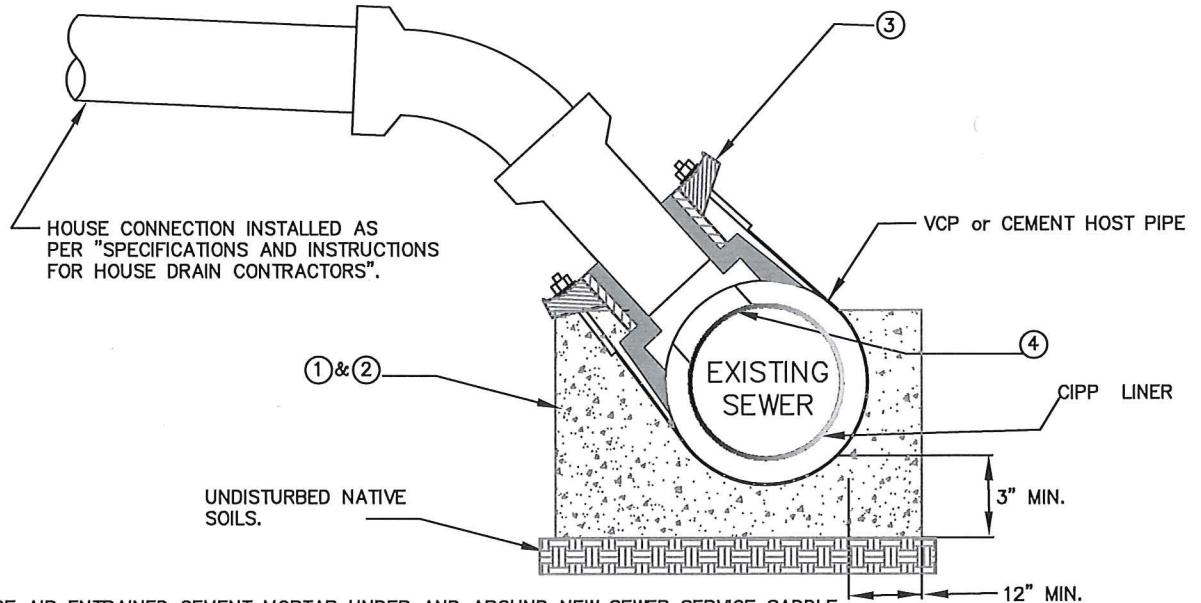


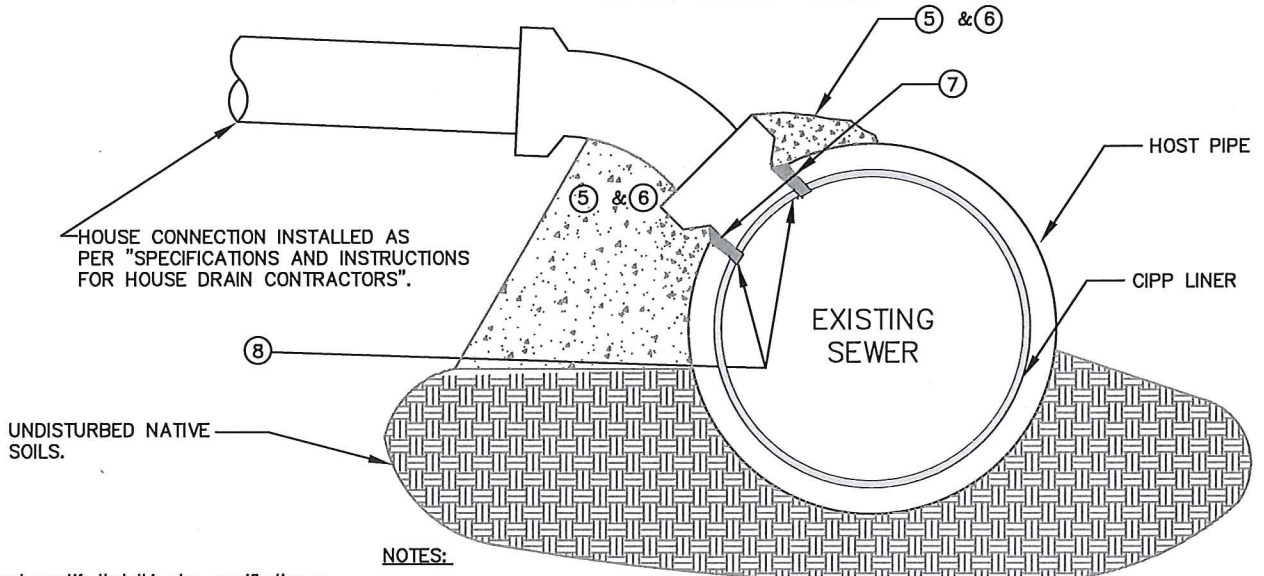
PUBLIC SEWER CONNECTIONS (O.D. 25" OR LESS)
LINED SEWER MAIN



NOTES:

1. PLACE AIR ENTRAINED CEMENT MORTAR UNDER AND AROUND NEW SEWER SERVICE SADDLE CONNECTION. DO NOT ENCASE NEW SEWER SERVICE SADDLE CONNECTION.
2. AIR ENTRAINED CEMENT MORTAR TO BE UNDERGROUND UTILITY MIX COMPLYING WITH ASTM C270 AND ASTM C387 (PLANT CERTIFIED OR BAG MIX).
3. NEW SEWER SERVICE SADDLE CONNECTION. SADDLE CASTING TO BE DUCTILE IRON, PER ASTM 536, GRADE 65-45-12, AND FACTORY PAINTED. GASKET TO BE SBR PER ASTM D 2000 MBA 710 AND MADE FOR SEWER SERVICE. STAINLESS STEEL STRAP TO BE 300 SERIES STAINLESS STEEL, ADJUSTABLE, AND HAVE A MINIMUM WIDTH OF 3 INCHES. ALL BOLTS, NUTS, AND WASHERS TO BE 300 SERIES STAINLESS STEEL. USE ROMAC INDUSTRIES, INC. STYLE "CB" SADDLE OR APPROVED EQUAL. INSTALL NEW SEWER SERVICE CONNECTION PRODUCT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
4. CORE DRILL MAINLINE AND LINED SEWER TO ACCEPT NEW SEWER SERVICE SADDLE CONNECTION.

PUBLIC SEWER CONNECTIONS (O.D. GREATER THAN 25")
LINED SEWER MAIN



NOTES:

- 5 PLACE 3-INCH MINIMUM AIR ENTRAINED CEMENT MORTAR AROUND FLEXIBLE COMPRESSION GASKET JOINT. PLACE AIR ENTRAINED CEMENT MORTAR UNDER FIRST PIPE BEND. DO NOT ENCASE COMPRESSION GASKET TO SERVICE PIPE..
- 6 AIR ENTRAINED CEMENT MORTAR TO BE UNDERGROUND UTILITY MIX COMPLYING WITH ASTM C270 AND ASTM C387 (PLANT CERTIFIED OR BAG MIX).
- 7 FLEXIBLE COMPRESSION GASKET COMPLYING WITH ASTM C564. USE "FERNCO MULTI TITE PIPE "PROFLO", OR APPROVED EQUAL.
- 8 CORE DRILL MAINLINE AND LINED SEWER TO ACCEPT FLEXIBLE COMPRESSION GASKET.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

Aaron D. Hass
AARON D. HASS

Date 11-04-2019 Lic. No. 26424

APPROVED 11-04-19
Tau K. Kurtz
CITY ENGINEER

CITY OF ST. PAUL
DEPARTMENT OF PUBLIC WORKS
SADDLE SERVICE CONNECTIONS
TO LINED SEWER MAINS

Date of Revision
NOV. 2019

Standard Plate No.
2325