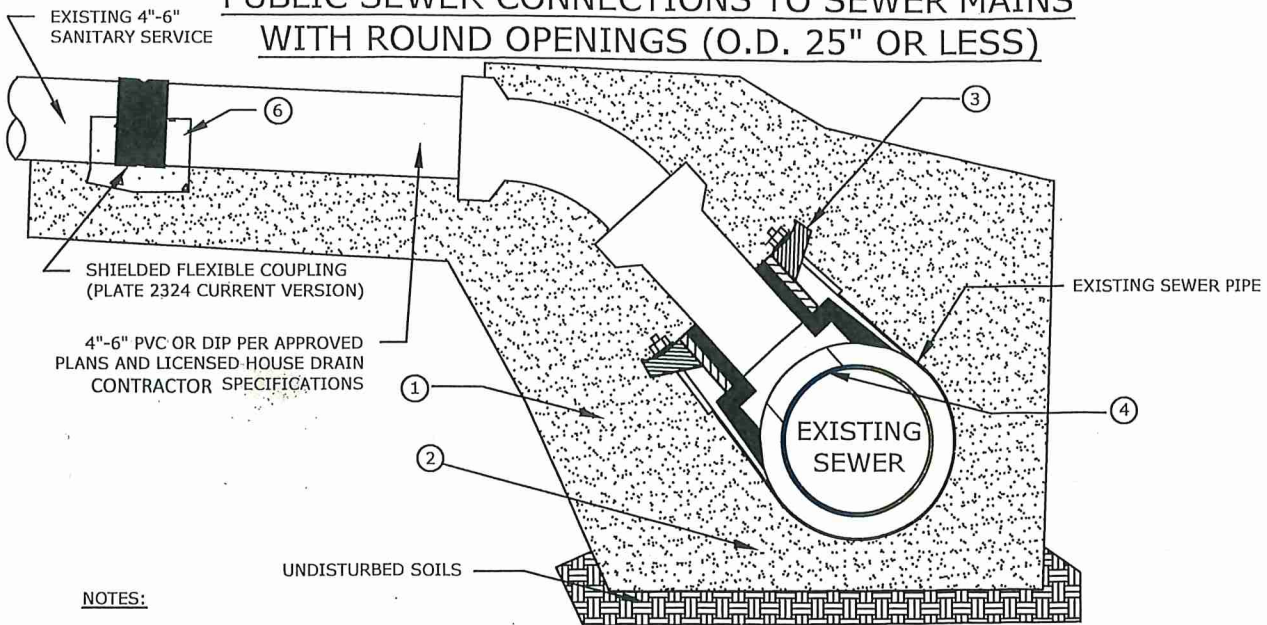


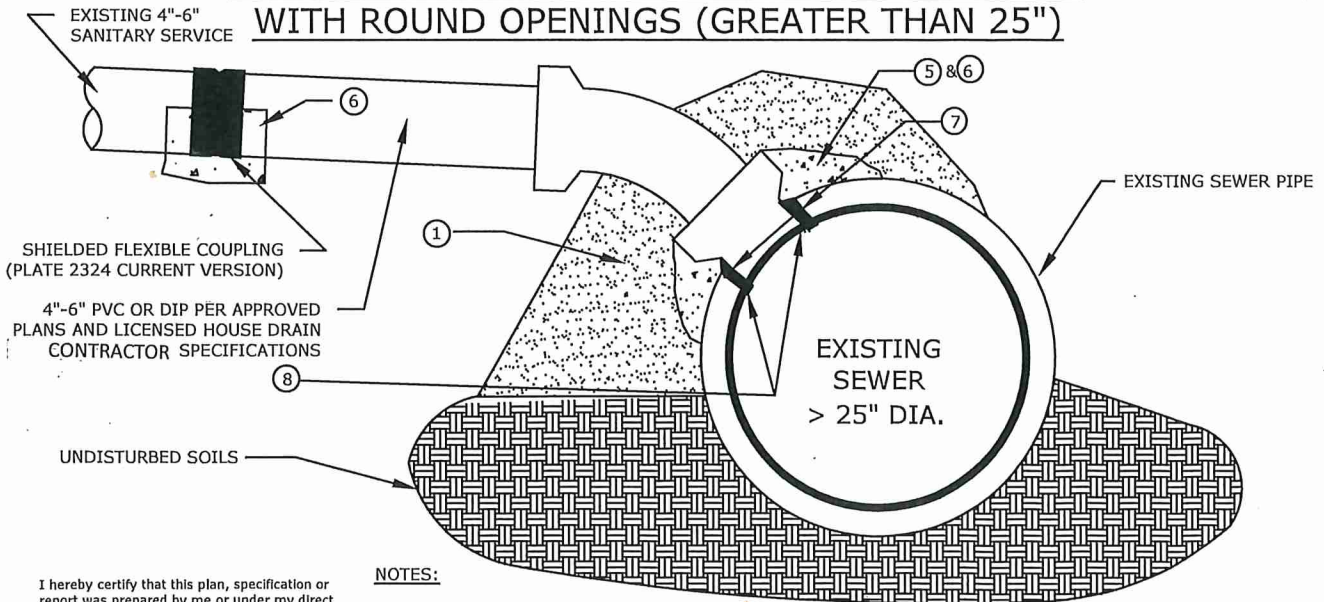
**PUBLIC SEWER CONNECTIONS TO SEWER MAINS
WITH ROUND OPENINGS (O.D. 25" OR LESS)**



NOTES:

1. COMPACTED GRANULAR PIPE BEDDING (PER MNDOT 2451) - AT MINIMUM, PLACE COMPACTED GRANULAR PIPE BEDDING, NOT LESS THAN 100% OF MINIMUM DENSITY IN ACCORDANCE WITH ASTM D-698 AND D-1556, TO A POINT 12-INCHES ABOVE THE REPAIRED SERVICE LATERAL PIPING AND CONNECTION TO THE SEWER MAINLINE
2. AGGREGATE FOUNDATION FOR SEWERS IS ALLOWED TO PROVIDE STABLE BASE AND PIPE SUPPORT
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 SEWER (AND LINER IF APPLICABLE) TO ACCEPT NEW SEWER SERVICE SADDLE CONNECTION. OPENING MUST BE IN FULL COMPLIANCE WITH PRODUCT MANUFACTURER SPECIFICATIONS

**PUBLIC SEWER CONNECTIONS TO SEWER MAINS
WITH ROUND OPENINGS (GREATER THAN 25")**



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", "INSERTATEE", "PROFLO", OR APPROVED EQUAL.
8. CORE DRILL MAINLINE SEWER (AND LINER IF APPLICABLE) TO ACCEPT FLEXIBLE COMPRESSION GASKET. OPENING MUST BE IN FULL COMPLIANCE WITH PRODUCT MANUFACTURER SPECIFICATIONS

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 1-3-22 Lic. No. 26424

APPROVED 1-4-2022
Taul F. Kurtz
CITY ENGINEER

CITY OF ST. PAUL
DEPARTMENT OF PUBLIC WORKS
**SADDLE SERVICE CONNECTIONS TO
SEWER MAINS WITH ROUND OPENINGS**

Date of
Revision
JAN
2022

Standard
Plate
No.
2337