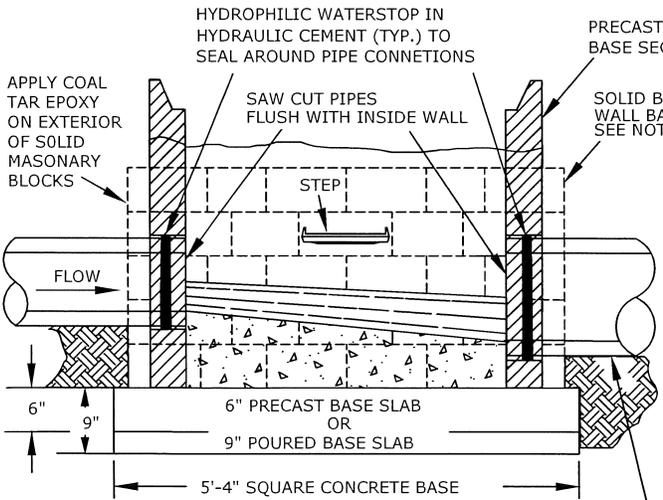
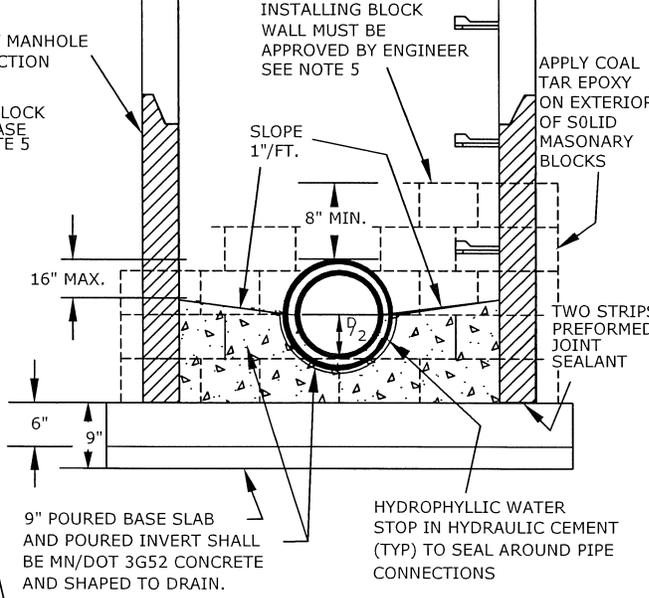


NOTES:

1. THIS MANHOLE FOR USE WITH 21" I.D. AND SMALLER PIPE. USE LARGER MANHOLE DIAMETER FOR PIPES LARGER THAN 21" I.D.
2. PRECAST RISER SECTION TO MEET ASTM C-478.
3. JOINTS BETWEEN PRECAST SECTIONS SHALL USE O-RING RUBBER GASKET CONFORMING TO ASTM C-443.
4. PRECAST MANHOLE BARREL BASE SECTIONS SHALL BE USED WHENEVER POSSIBLE.
5. AT THE DIRECTION OF THE ENGINEER, SOLID CONCRETE MASONRY BLOCKS WITH COAL TAR EPOXY EXTERIOR MAY BE UTILIZED TO ACCOMMODATE PIPE GEOMETRY. THE BLOCK WALL BASE SECTION SHALL BE CONSTRUCTED WITH 8" X 8" X 16" OR 6" X 8" X 16" SOLID CONCRETE MANHOLE BLOCKS (SEE SPECIFICATIONS). ALL JOINTS TO BE 3/8" THICK AND COMPLETELY FILLED WITH MORTAR.
6. EACH JOINT SHALL BE SEALED WITH AN EXTERNAL RUBBER SLEEVE SIMILAR TO THE INFI-SHIELD GATOR WRAP OR APPROVED EQUAL.
7. NO BELLS OR SPIGOTS SHALL PROTRUDE INTO ROUND STRUCTURES. SAWCUT PROTRUSIONS TO BE LESS THAN 3". PIPE PROTRUSIONS SHALL NOT RESTRICT ENTRY TO MANHOLE.



SECTION A-A



SECTION B-B

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. Hess
AARON D. HESS

PIPES SHALL REST ON UNDISTURBED EARTH AND NOT BEAR DIRECTLY ON SLAB

Date 1-20-2026 Lic. No. 26424

APPROVED 2-19-2026
[Signature]
CITY ENGINEER

CITY OF ST. PAUL
DEPARTMENT OF PUBLIC WORKS
MANHOLE, DESIGN TYPE II
USED FOR 21" I.D. & SMALLER PIPES

Date of Revision
JAN 2026

Standard Plate No.
2102G