

REINFORCING EXTENDING TO 1" MIN. CLR. AT CORNERS OR CONTINUOUS REINF. AROUND CORNERS

REINFORCING

TWO LAYERS
 INSIDE AREA = 3/16 SQ.IN/FT
 OUTSIDE AREA = 3/16 SQ.IN/FT

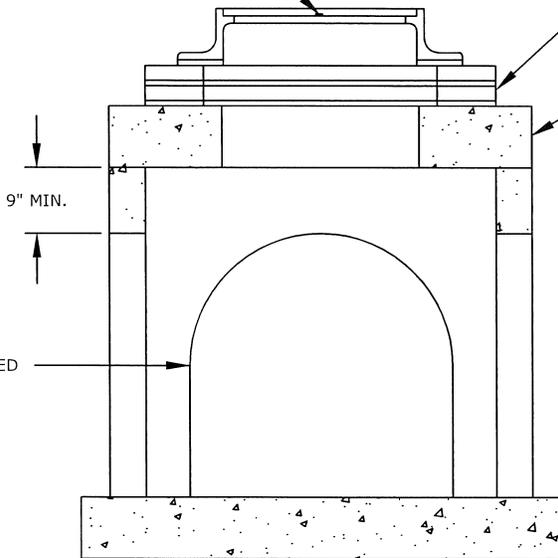
1 IN. MINIMUM CLEARANCE

CIRCUMFERENTIAL REINFORCING
 SPACING NOT TO EXCEED 2 IN.

LONGITUDINAL REINFORCING
 SPACING NOT TO EXCEED 8 IN.

CASTINGS A & D
 (UNLESS NOTED OTHERWISE)
 STD. PLATES 2201E & 2202D

ADJUST TO GRADE
 AS PER STD. PL. 2321B



58" X 58" X 8"
 PRECAST COVER WITH CONCENTRIC
 27" DIA.

NOTES:

1. FOR USE ON STORM SEWER 36" I.D. OR LESS WITH A MAXIMUM DEPTH TO PIPE INVERT OF 9 FT.
2. IF DEPTH TO INVERT EXCEEDS 9' A MINIMUM 48" I.D. ROUND MANHOLE MAY BE USED. A MINIMUM 48" I.D. ROUND MANHOLE MAY ALSO BE USED ON DEPTHS LESS THAN 9 FT WITH ENGINEER'S APPROVAL.
3. EACH JOINT SHALL BE SEALED WITH AN EXTERNAL RUBBER SLEEVE SIMILAR TO THE INFI-SHIELD GATOR WRAP OR APPROVED EQUAL.
4. NO BELLS OR SPIGOTS SHALL PROTRUDE INTO ROUND STRUCTURES. SAWCUT PROTRUSIONS TO BE LESS THAN 3". IN RECTANGULAR STRUCTURES PIPES MUST BE CUT FLUSH TO THE INSIDE WALL. PIPE PROTRUSIONS SHALL NOT RESTRICT ENTRY TO MANHOLE.

CUTOUTS AS REQUIRED

66" X 66" X 8"
 PRECAST BASE SLAB
 REINF. = #4 @ 12" O.C. E.W.
 OR CONTRACTORS OPTIONAL
 CAST-IN-PLACE BASE SLAB

SHAPE INVERT TO DRAIN

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 01-21-2026 Lic. No. 26424

APPROVED *2-19-2026*
N. K. [Signature]
 CITY ENGINEER

CITY OF ST. PAUL
 DEPARTMENT OF PUBLIC WORKS

MANHOLE, TYPE IV PRECAST

Date of
 Revision
 JAN.
 2026

Standard
 Plate
 No.
 2111D