

8" SOLID CONCRETE MANHOLE BLOCK (SEE SPECIFICATIONS)

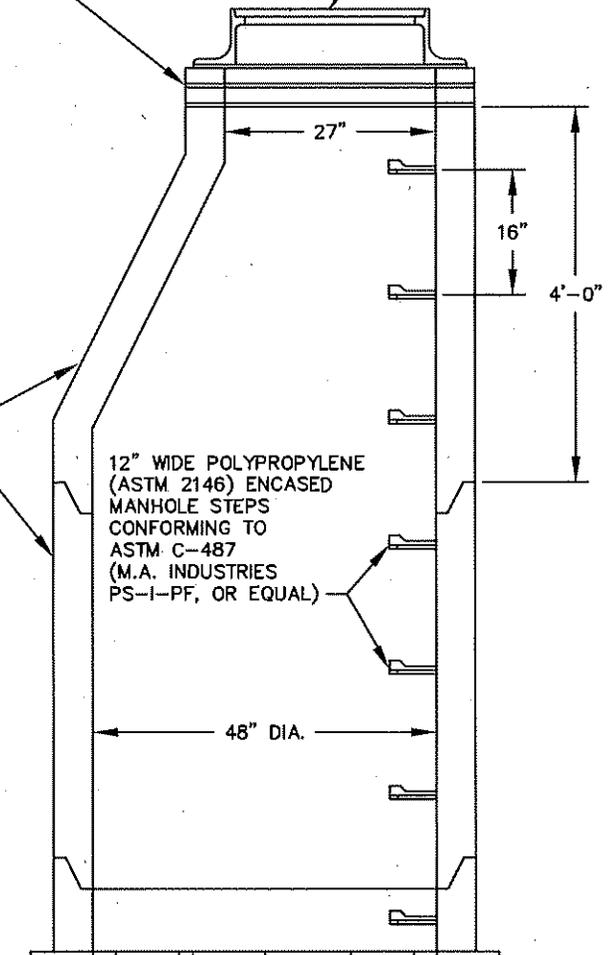
ECCENTRIC CONE AND PRECAST RISER SECTIONS AS REQ.

NOTES:

1. THIS MANHOLE FOR USE WITH 21" I.D. AND SMALLER PIPE
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. BASE SHALL BE PRECAST WHENEVER POSSIBLE. CAST IN PLACE BASE MAY BE USED IF NECESSARY. CAST IN PLACE BASE AND/OR INVERT SHALL BE MN/DOT 3Y43 CONCRETE.

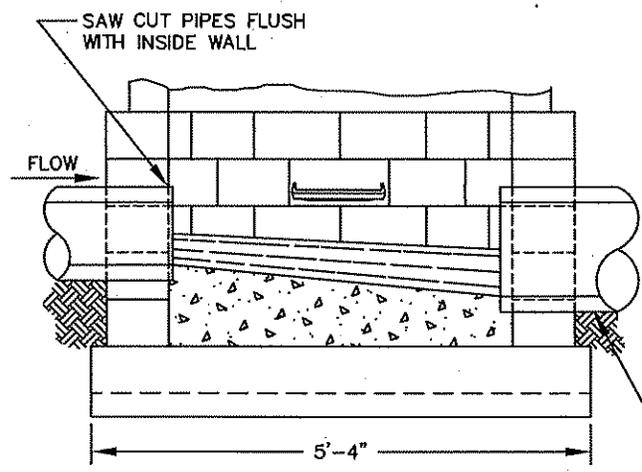
CASTINGS A & B (UNLESS NOTED OTHERWISE) STD. PLATES 2201E & 2202D

ADJUST TO GRADE AS PER STD. PL. 2321

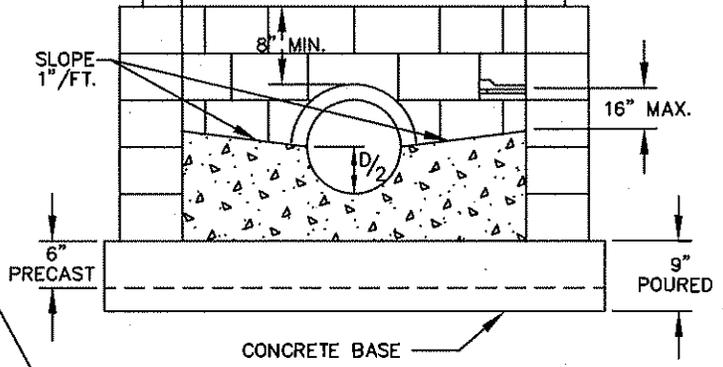


12" WIDE POLYPROPYLENE (ASTM 2146) ENCASED MANHOLE STEPS CONFORMING TO ASTM C-487 (M.A. INDUSTRIES PS-I-PF, OR EQUAL)

48" DIA.



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

Joseph J. Mueller
JOSEPH J. MUELLER

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

Date: 5-4-10 Lic. No. 13942

APPROVED
[Signature]
CITY ENGINEER

CITY OF ST. PAUL
DEPARTMENT OF PUBLIC WORKS
MANHOLE, DESIGN TYPE II

Date of Revision
MAY 2010

Standard Plate No.
2102D