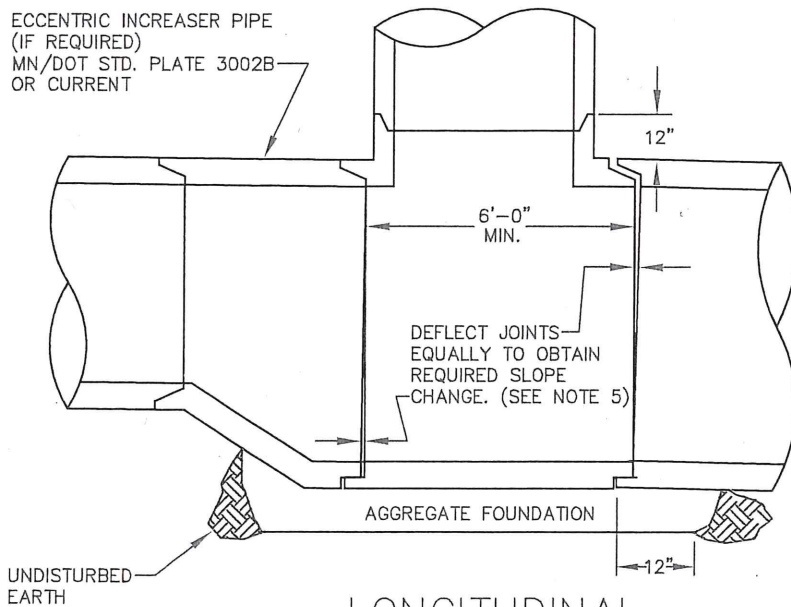


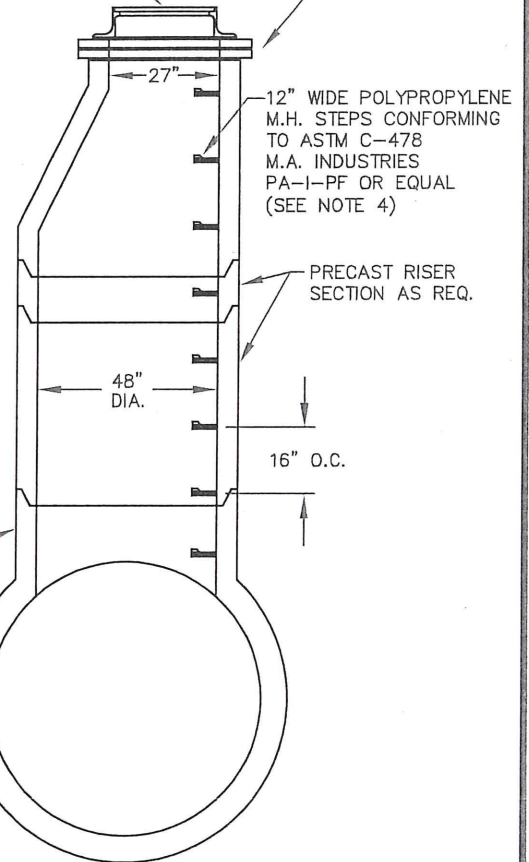
ECCENTRIC INCREASER PIPE
(IF REQUIRED)
MN/DOT STD. PLATE 3002B
OR CURRENT



LONGITUDINAL SECTION

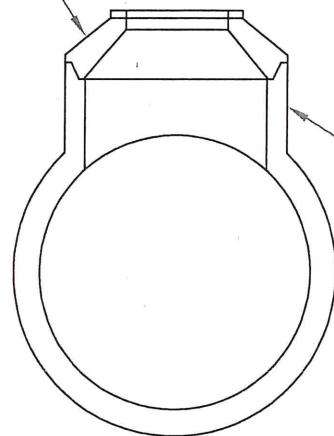
ADJUST TO GRADE
AS PER STD. PL. 2321B

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



TRANSVERSE SECTIONS

SHORT CONE
MN/DOT STD. PLT. 4010H
OR CURRENT



PRECAST TEE SECTION, BARREL
TO BE SAME CLASS
AS ADJACENT RCP.

NOTES:

1. THIS MANHOLE FOR USE ON STRAIGHT RUNS OF MAINLINE SEWER. 42" AND LARGER SLOPE CHANGE CAN BE ACCOMPLISHED BY DEFLECTING JOINTS AS NOTED HEREIN. DIAMETER CHANGE CAN BE ACCOMPLISHED WITH ASSOCIATED ECCENTRIC INCREASER.
2. PRECAST RISER SECTIONS TO MEET ASTM C-478
3. JOINTS SHALL USE O-RING RUBBER GASKET TO CONFORMING TO ASTM C-443
4. MANHOLE STEPS NOT REQUIRED WHERE DEPTH OF COVER IS LESS THAN 6'.
5. MAXIMUM JOINT DEFLECTION FROM "HOME" IS 3/4" FOR 42" I.D. AND 1" FOR 48" I.D. OR GREATER CORRESPONDING MAXIMUM SLOPE CHANGE PER JOINT IS:

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 01-24-2017 Lic. No. 26424

PIPE I.D.	42"	48"	54"	60"	66"	72"	84"	90"	96"
MAX. SLOPE CHANGE / JOINT	1.78	2.08	1.85	1.66	1.51	1.38	1.19	1.11	1.04 %

APPROVED *2-2-2017*
Paul Kurtz
CITY ENGINEER

CITY OF ST. PAUL
DEPARTMENT OF PUBLIC WORKS
MANHOLE, TYPE VI

Date of Revision
JAN. 2017

Standard Plate No.
2106F