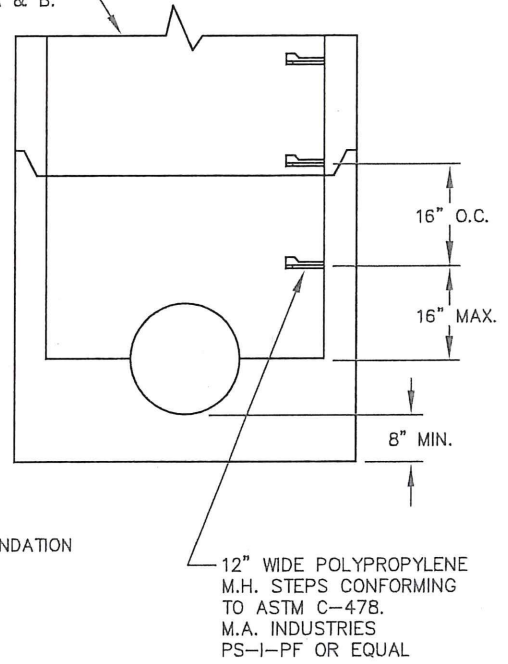
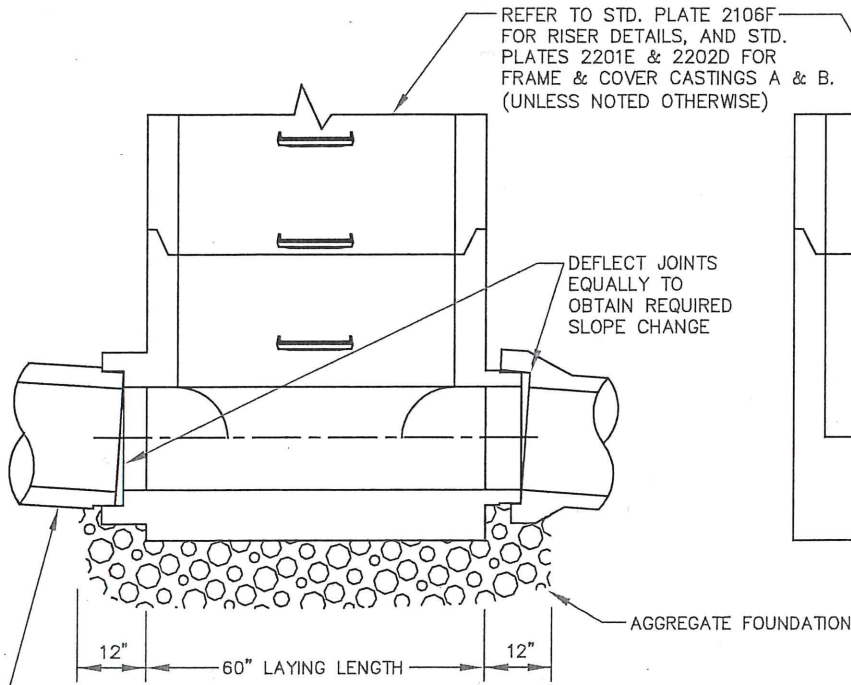
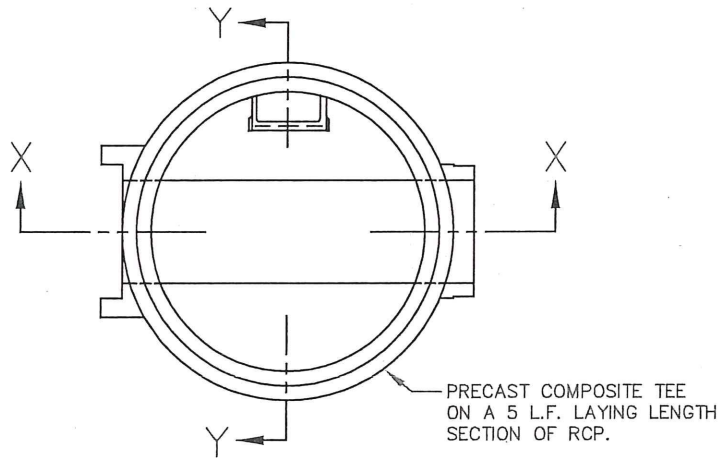


SECTION X-X

SECTION Y-Y



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



PLAN

NOTES:

1. THIS MANHOLE FOR USE ON STRAIGHT RUNS OF MAINLINE SEWER 12" TO 36" I.D. SLOPE CHANGE CAN BE ACCOMPLISHED BY DEFLECTING JOINTS AS NOTED HEREIN. DIAMETER CHANGE CAN BE MADE WITH ASSOCIATED ECCENTRIC EXPANSION.
2. PRECAST RISER SECTIONS TO MEET ASTM C-478
3. JOINTS SHALL USE O-RING RUBBER GASKETS CONFORMING TO ASTM C-443
4. MAXIMUM JOINT DEFLECTION FROM "HOME" IS 3/4". CORRESPONDING MAXIMUM SLOPE CHANGE PER JOINT IS:

PIPE I.D.	12"	15"	18"	21"	24"	27"	30"	36"
SLOPE CHANGE/JOINT	6.2	5.0	4.1	3.6	3.1	2.7	2.5	2.0 %

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

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

CITY OF ST. PAUL
DEPARTMENT OF PUBLIC WORKS

MANHOLE, TYPE VI-CT

Date of Revision
JAN. 2017

Standard Plate No.
2109D