



ROTATED SECTION

MANHOLE USE TYPE	HT	NEENAH		EJIW	
		CASTING	LID	CASTING	LID
MANHOLE WITHIN PAVEMENT	9"	R-1540	TYPE B, NON-ROCKING	1058	TYPE A
MANHOLE NOT IN PAVEMENT BUT IN R/W	9"	R-1550	TYPE C, NON-ROCKING	1058	TYPE A
	7"	R-1772-C		1022	
MANHOLE IN YARD NOT IN PAVEMENT NOT IN R/W	9"	R-1916-C	TYPE C, BOLT DOWN	1058 ZPT	BOLT DOWN
	7"	R-1916-F		1045 ZPT	

A. CONSTRUCTION:

- 1) SANITARY MANHOLES SHALL BE VACUUM TESTED.
- 2) ALL NEW MANHOLES SHALL BE 48" MINIMUM INSIDE DIAMETER, PRE-CAST CONCRETE CONFORMING TO ASTM C-478. PRE-CAST BASES SHALL BE 6" MINIMUM.
- 3) NEW MANHOLES PLACED OVER EXISTING SEWER LINES, REFERRED TO AS "DOG-HOUSE" MANHOLES, SHALL HAVE CAST-IN-PLACE CONCRETE BASES WITH REINFORCEMENT; #4@12" O/C EACH WAY. BASES SHALL BE CLASS "C" CONCRETE WITH A 10" MIN THICKNESS.
- 4) MANHOLES WITH PRE-CAST CONCRETE BASES SHALL BE PLACED ON A COMPACTED SAND OR GRAVEL BED, HAVING A 3" MIN THICKNESS.
- 5) RUBBER O-RING GASKETS SHALL BE USED BETWEEN PRE-CAST MANHOLE SECTIONS, MEETING ASTM C-443. APPLY MASTIC TAR STRIP BETWEEN SECTIONS ON THE HORIZ SURFACE.
- 6) ALL PIPING THROUGH MANHOLE WALLS SHALL BE SEALED WITH A GASKET EMBEDDED IN THE PRE-CAST, OR BY A NEOPRENE BOOT, OR BY ANOTHER METHOD FIRST APPROVED BY THE CITY ENGINEER.
- 7) THE CENTERLINE OF THE MANHOLE SHALL BE LOCATED OVER THE CENTERLINE OF THE MAIN SEWER, WHENEVER POSSIBLE.
- 8) MANHOLE STEPS SHALL NOT BE PERMITTED.
- 9) THE FRAMES SHALL BE SET EVEN AND FLUSH WITH THE INTERIOR WALLS OF THE MANHOLE.
- 10) GRADE ADJUSTMENT RINGS SHALL BE PRE-CAST CONCRETE ONLY AND NOT TO EXCEED 12". BRICK OR BLOCK MATERIALS ARE NOT PERMITTED.

B. CASTINGS:

- 1) APPROVED MANHOLE FRAMES AND LIDS ARE SHOWN IN THE TABLE:
- 2) FRAMES SHALL BE SET LEVEL, EXCEPT SET TO GRADE WHEN WITHIN THE PAVEMENT. LIDS SHALL BE SO FITTED AND FINISHED SO AS TO PROVIDE A FIRM AND EVEN SEAT FOR ALL PORTIONS OF THE LID IN THE FRAME.
- 3) FRAMES AND LIDS SHALL BE FITTED, MATCHED AND MARKED PRIOR TO DELIVERY TO THE PROJECT.
- 4) THE FRAME SHALL BE SET ON A MASTIC STRIP AROUND ITS PERIMETER AND MORTARED TO THE SEAT OF THE CONCRETE STRUCTURE.
- 5) ANY SUBSTITUTIONS OF EQUAL QUALITY AND DIMENSIONS SHALL FIRST BE APPROVED BY THE CITY ENGINEER PRIOR TO PROCUREMENT.

C. PAYMENT:

- 1) PAYMENT SHALL BE FOR THE MANHOLE COMPLETE IN PLACE, EXCAVATION AND BACKFILL INCLUDED.

SANITARY DOGHOUSE MANHOLE

DWG NO: **SS-2.2**



NOTE 1: DRAWING VALID ONLY WHEN USED AS SHOWN AND IN CONJUNCTION WITH OTHER FAIRBORN ENGINEERING SPECIFICATIONS AND/OR DETAILS. THIS DRAWING REPRESENTS MINIMUM STANDARDS. ANY MODIFICATIONS TO THIS DETAIL SHALL FIRST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.

NOTE 2: CALL THE FOLLOWING AGENCIES AT LEAST 48 HOURS IN ADVANCE OF ANY EXCAVATION: O.U.P.S. AT 8-1-1 AND O.A.G.P.U.P.S. AT (800) 925-0988

ISSUE DATE: **01/25/2019**

ENGR: **MAJ**

APPROVED: **TLH**

SCALE: **NONE**

FILE:

ENGINEERING DIVISION

44 W. HEBBLE AVENUE FAIRBORN, OHIO 45324
PH: (937) 754-3055 FX: (937) 879-7395

REV NO	REV DATE	REV DESCRIPTION	REV NO	REV DATE	REV DESCRIPTION