

NEENAH R-1772 W/ TYPE 'B' LID OR APPROVED EQUAL. INSTALL TOP OF CASTING 1/4" BELOW FINISHED PAVEMENT. FLUSH WITH FINISHED GRADE IN YARD/LANDSCAPED AREAS

USE 1/4" ROLLED MASTIC ROPE BETWEEN CASTING AND RING, ONE ALONG INSIDE AND OUTSIDE EDGES WHEN POSSIBLE. FOR FINE ADJUSTMENT, A NON-SHRINK RAPID SETTING MORTAR, SPEED CRETE REDLINE OR SIMILAR APPROVED MATERIAL CAN BE USED, MAXIMUM OF 2" THICKNESS. NO SHIMS, BRICK OR CONCRETE UNDER CASTING

USE 1/4" ROLLED BUTYL MASTIC ROPE BETWEEN STRUCTURE AND RINGS, ONE ALONG INSIDE AND OUTSIDE EDGE. CASTING AND RINGS MUST BE ALIGNED VERTICALLY AND HAVE NO CRACKS (2.0" MAXIMUM HORIZONTAL OFFSET ALLOWED IF PRE-APPROVED)

PRE-CAST REINFORCED CONCRETE MANHOLE PER ASTM C-478

ALIGN RUNGS IN EACH STRUCTURE SECTION AND CONE OPENING

BACKFILL WITH B-BORROW OR APPROVED CLEAN SPOILS. COMPACT IN PROPER LIFTS BY MECHANICAL MEANS. IF UNABLE TO COMPACT BY MECHANICAL MEANS, PLACE No. 8 PEA GRAVEL BETWEEN EXCAVATION WALL AND STRUCTURE

COPOLYMER POLYPROPYLENE PLASTIC RUNGS WITH 1/2" GRADE 60 REINFORCING STEEL

PRECAST INVERT AND BENCH

No. 8 AGGREGATE, MAYBE ELIMINATED BY ENGINEER IF CONDITIONS DO NOT WARRANT THE 6" OF BASE MATERIAL

MAXIMUM 12" OF ADJUSTMENT, 2 OR FEWER RINGS. 2" AND THICKER PRE-CAST RINGS ONLY

24" DIA.  
16" (TYP.)

12" - 16" TYP.

4'-0" DIA.

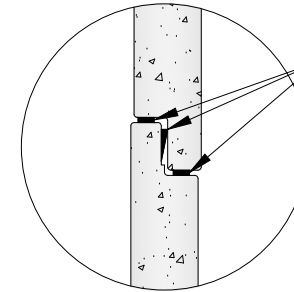
5"

24" TO 48" ECCENTRIC CONE  
24" TO 48" BARREL SECTION  
VARIES BASE

PIPE AND STRUCTURE SIZE	
'D'	'F'
<24"	4'-0"
24" to 36"	5'-0"
36" to 48"	6'-0"
48" to 54"	8'-0"
54" to 72"	8'-6"
72" to 84"	9'-0"

**NOTE:**

- ALL STRUCTURES MUST BE INSPECTED BY A CITY REPRESENTATIVE PRIOR TO INSTALLATION. STRUCTURES WILL BE REJECTED IF REINFORCING STEEL IS EXPOSED, EXCESSIVE VOIDS ARE OBSERVED IN THE CONCRETE, DAMAGE TO CONCRETE EDGES BETWEEN SECTIONS AND ANY OTHER ITEM THAT MAY COMPROMISE THE STRUCTURE



SECTIONS MAY BE SEALED WITH THE MANUFACTURER'S SUPPLIED GASKET OR MASTIC PLACED ON THE UPPER AND LOWER EDGES OF STRUCTURE

IF PIPE INVERT IS ABOVE BENCH OR AN EXTERNAL DROP IS INSTALLED, FORM CHANNEL IN BENCH, 4" MIN DEPTH, TO MAIN INVERT TO PREVENT SOLIDS FROM COLLECTING BELOW THE PIPE. CURVE CHANNEL DOWNSTREAM ALONG MAIN INVERT TO PREVENT MATERIAL FROM COLLECTING AT THE INTERSECTION OF THE TWO FLOW LINES. IF POURED IN THE FIELD, THE CITY OF GOSHEN ENGINEERING DEPARTMENT MUST PRE-APPROVE THE DESIGN BEFORE INSTALLING. IF NOT PRE-APPROVED, THE CONTRACTOR MAY BE REQUIRED TO REMOVE THE BENCH AND RE-POUR WITH NO ADDITIONAL COMPENSATION.

BOOTS REQUIRED FOR ALL SANITARY PIPE CONNECTIONS. AN INVERT INSTALLED IN THE FIELD MUST BE CORED. SEAL THE GAP BETWEEN THE PIPE AND BOOT WITH A NON-SHRINK RAPID SETTING MORTAR, SPEED CRETE RED LINE OR APPROVED. EXTEND PIPE 6" BEYOND INSIDE WALL FACE IF ABOVE PRECAST INVERT AND BENCH

## SEWER MANHOLE (TYPE A) - CONE W/ MANHOLE CASTING

NOT TO SCALE