

NEENAH R-1772 W/ TYPE 'B' LID  
OR APPROVED EQUAL. INSTALL  
TOP OF CASTING 1/4" BELOW  
FINISHED PAVEMENT

USE 1/4" ROLLED MASTIC ROPE BETWEEN  
STRUCTURE AND RINGS, ONE ALONG  
INSIDE AND OUTSIDE EDGE. CASTING  
AND RINGS MUST BE ALIGNED  
VERTICALLY AND HAVE NO CRACKS

ALIGN RUNGS IN EACH STRUCTURE  
SECTION AND 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

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

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

12" FLAT TOP

24" DIA.

12" - 16" TYP.

4'-0" DIA.

5"

24" TO 48"  
BARREL SECTION

VARIES  
BASE

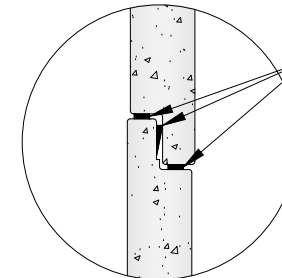
6"

6"

6"

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

BOOTS ARE NOT REQUIRED FOR STORM PIPE CONNECTIONS. SEAL GAP BETWEEN THE  
PIPE/STRUCTURE OR INSIDE OF BOOT WITH A NON-SHRINK RAPID SETTING MORTAR, SPEED  
CRETE RED LINE OR APPROVED. EXTEND STORM PIPE 6" BEYOND INSIDE WALL FACE. AN  
INVERT INSTALLED IN THE FIELD MUST BE CORED, NO HAND CUT INVERTS ALLOWED



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

**NOTE:**

1. 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

## SEWER MANHOLE (TYPE I) - FLAT TOP W/ MANHOLE CASTING

NOT TO SCALE

*The City Of Goshen*  
Department of Public Works & Safety  
Office of Engineering

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Date Approved By The City Of Goshen Board Of Public Works & Safety and Approved Revisions

03/27/2025

**CITY OF GOSHEN, INDIANA**  
**STANDARD DETAIL**

Drafted By: J. Hoffman  
Approved By: D. Sailor, P.E.

Drawing Number:  
**SW-209**