



Precast Wet Wells

Core Product Line

CORE PRODUCTS DIVISION



OVERVIEW

Precast Wet Well Structures are typically used to contain liquids, pumps, piping, and other hardware in sanitary sewer or storm drain pumping stations and systems.

SIZES

Precast wet well structures are normally available in diameters of 48 inch through 144 inch.

APPLICATION

Precast Wet Well Structures can be used for the following:

- Sanitary pumping stations
- Holding tanks
- Irrigation pump stations
- Storm pump stations
- Water lines

Precast wet well structures can be provided with the following features:

- protective linings
- flexible pipe-to-manhole connections
- custom openings
- custom tops or hatches

JOINTS

The following joints are normally available for precast circular manhole structures:

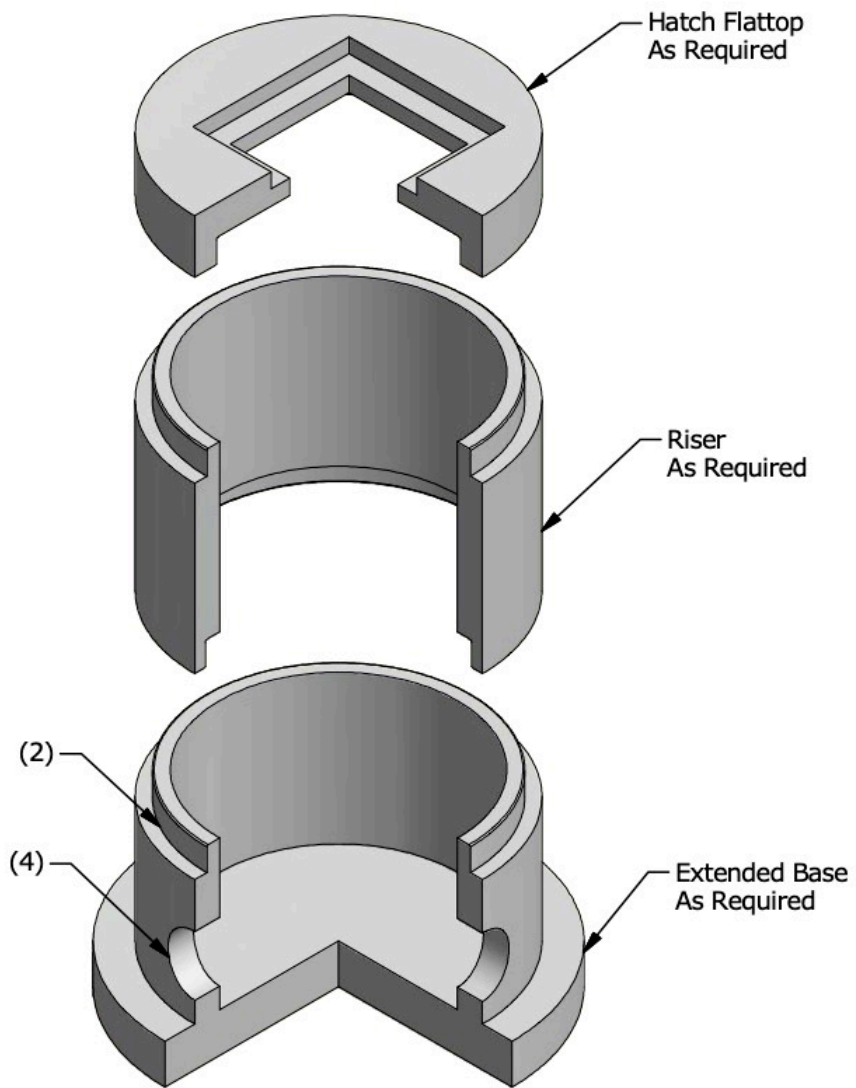
- pre-formed mastic or butyl gasket
- off-set rubber gasket
- external joint seals

APPLICABLE SPECIFICATIONS

- **ASTM C478 / AASHTO M199** -Precast Reinforced Concrete Manhole Sections
- **ASTM C443 / AASHTO M198** - Joints for Circular Concrete Sewer and Culvert Pipe, Using Rubber Gaskets
- **ASTM C990** - Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants
- **ASTM C923** - Resilient Connections Between Reinforced Concrete Manhole Structures and Pipes



48" DIAMETER WET WELL

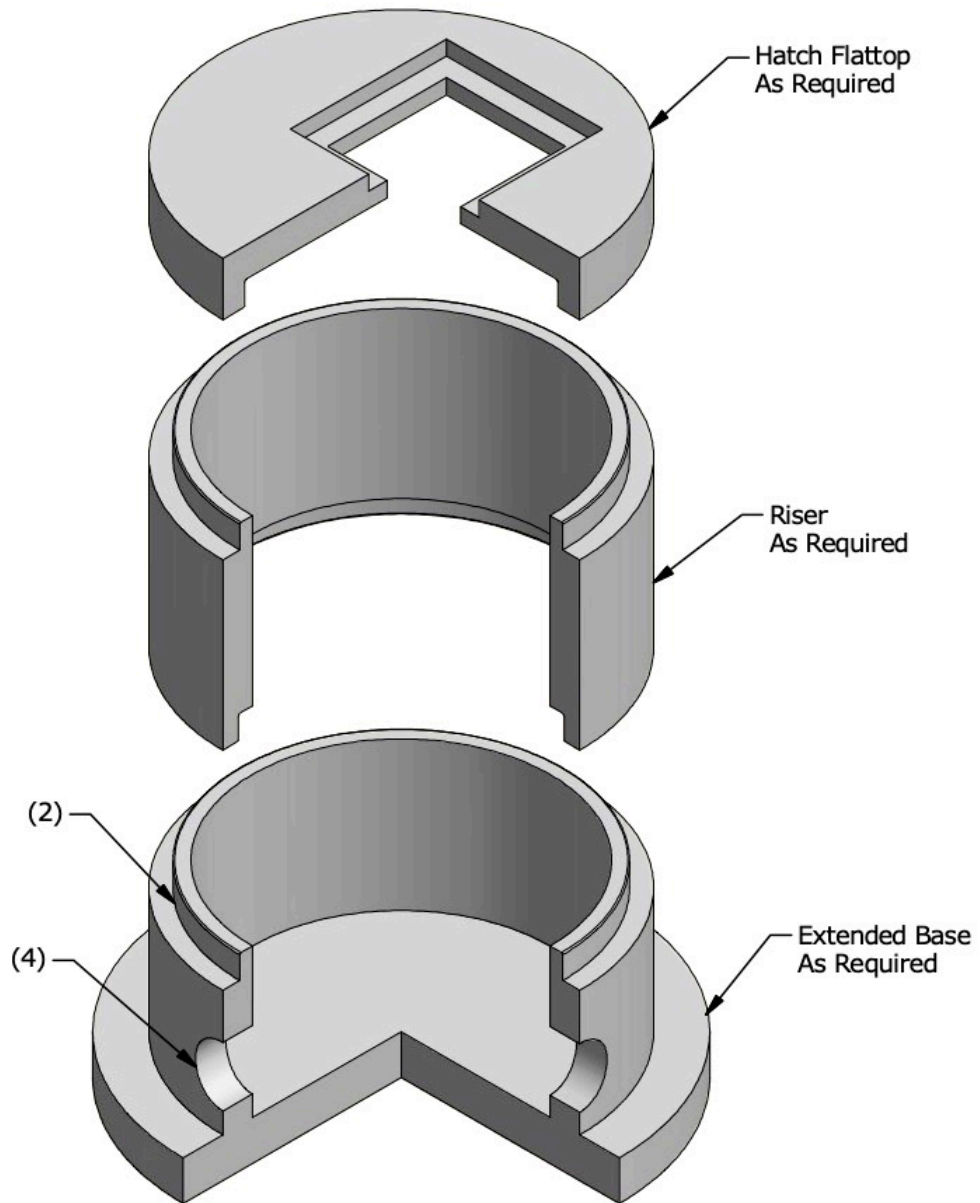


Isometric View

NOTES

1. Manhole sections conform to ASTM C478.
2. See joint details for joint sealant options.
3. Steps may be provided, see step detail sheet.
4. Pipe openings provided, as required.

60" DIAMETER WET WELL

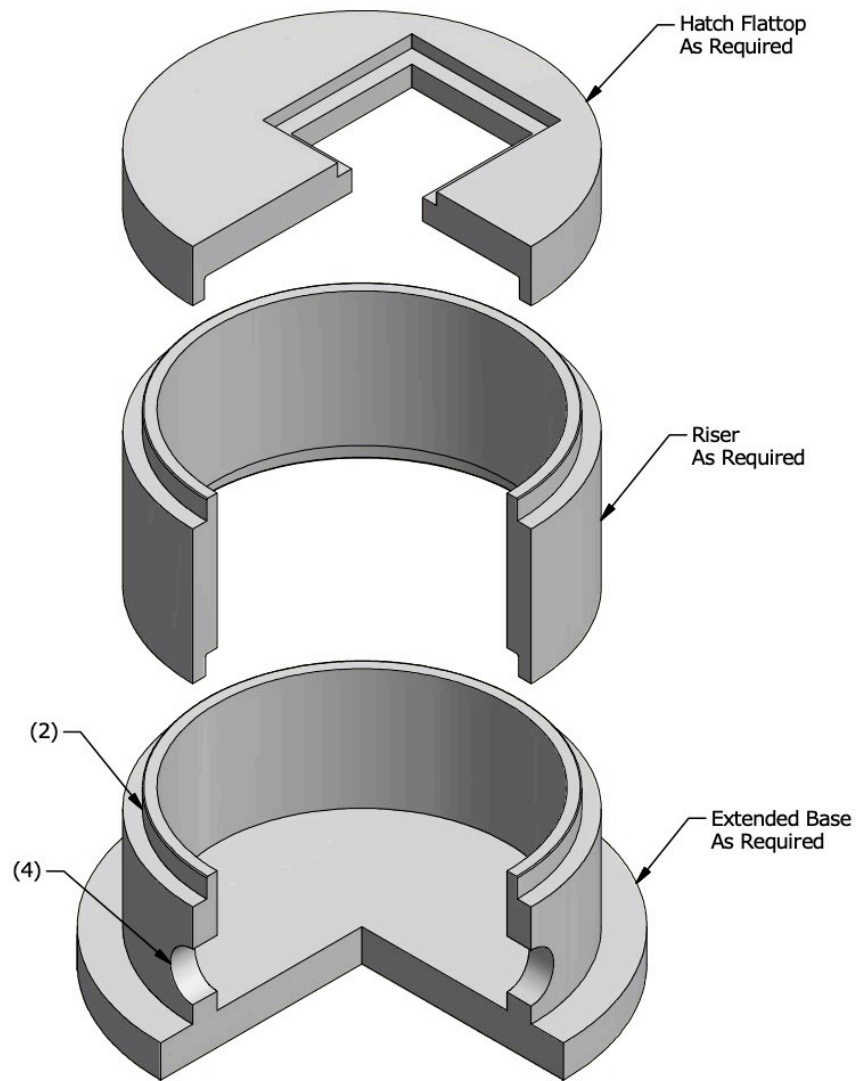


Isometric View

NOTES

1. Manhole sections conform to ASTM C478.
2. See joint details for joint sealant options.
3. Steps may be provided, see step detail sheet.
4. Pipe openings provided, as required.

72" DIAMETER WET WELL

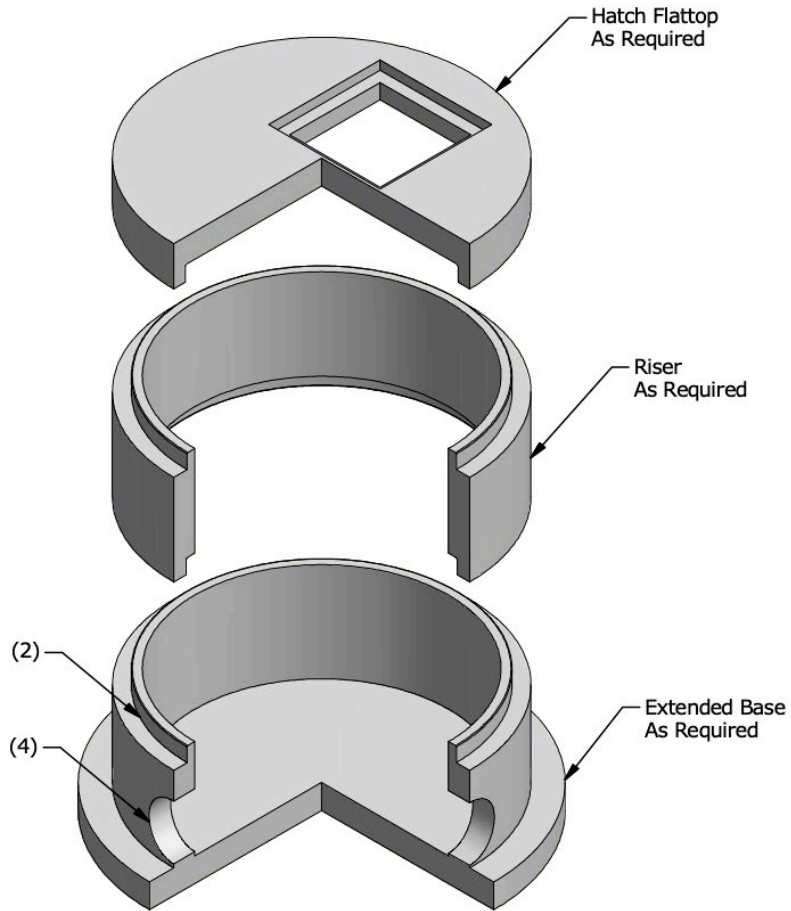


Isometric View

NOTES

1. Manhole sections conform to ASTM C478.
2. See joint details for joint sealant options.
3. Steps may be provided, see step detail sheet.
4. Pipe openings provided, as required.

84" DIAMETER WET WELL

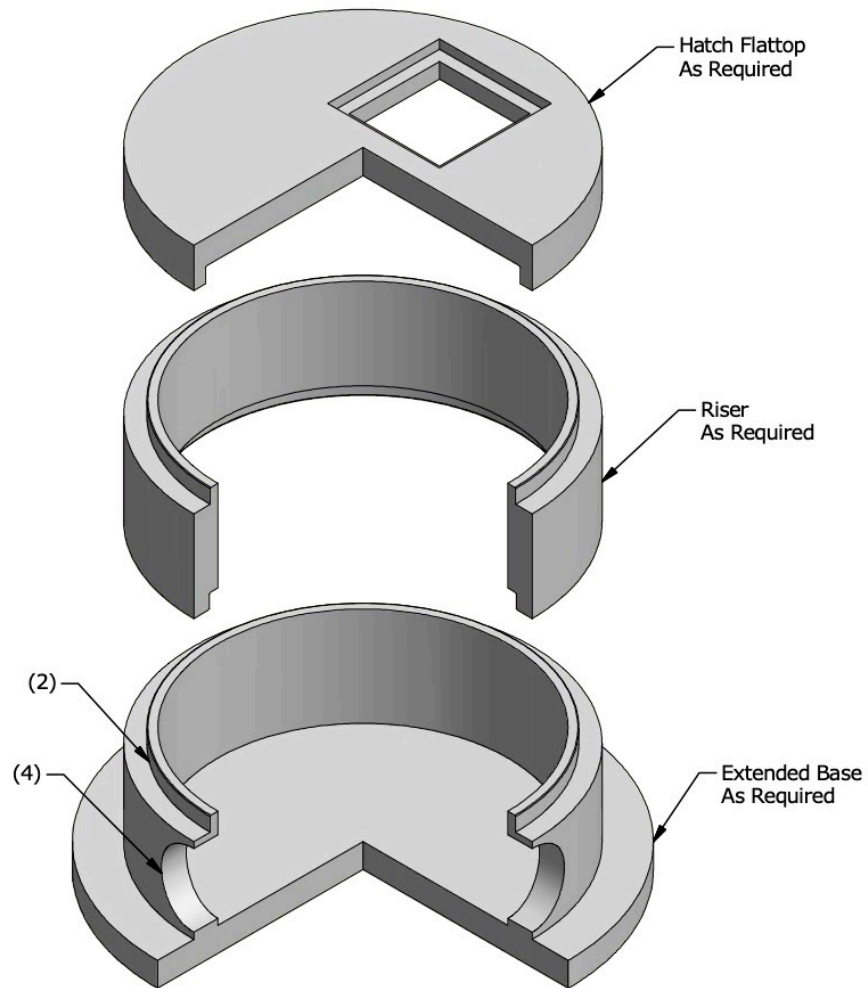


Isometric View

NOTES

1. Manhole sections conform to ASTM C478.
2. See joint details for joint sealant options.
3. Steps may be provided, see step detail sheet.
4. Pipe openings provided, as required.

96" DIAMETER WET WELL

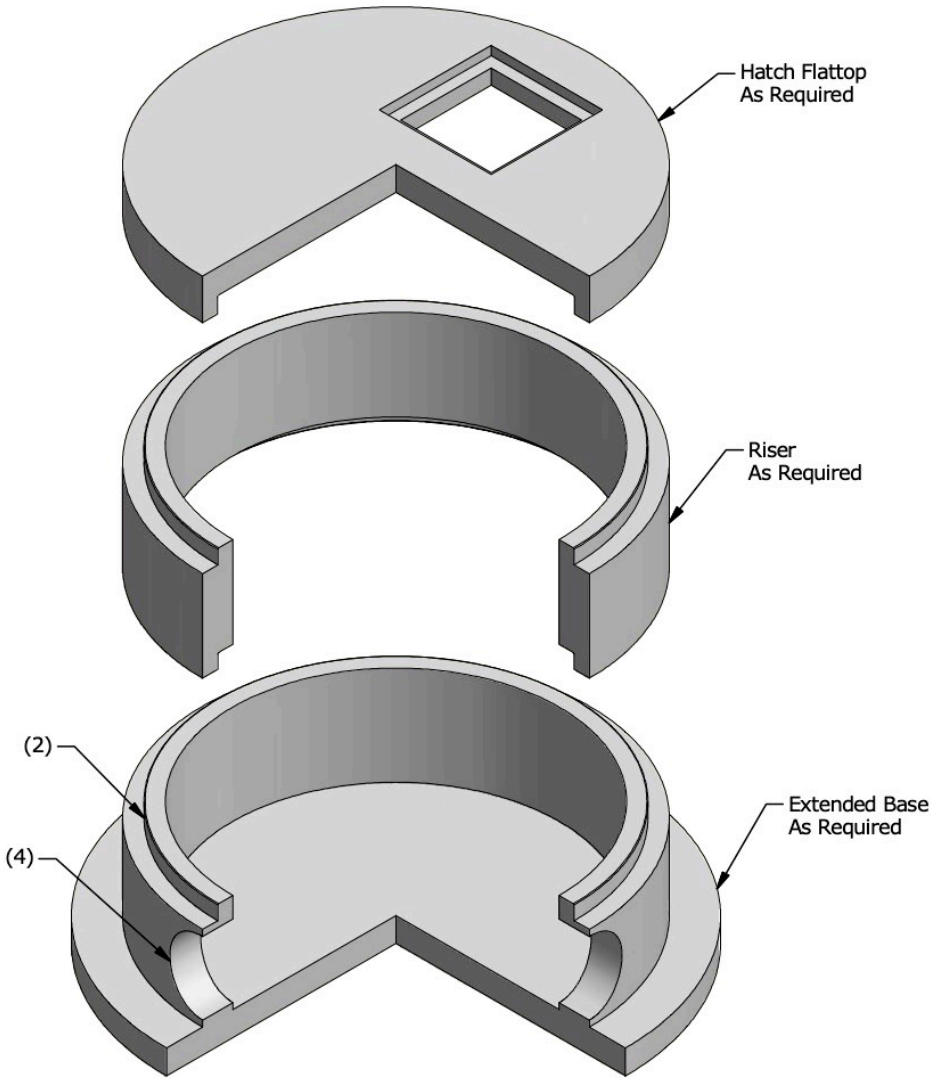


Isometric View

NOTES

1. Manhole sections conform to ASTM C478.
2. See joint details for joint sealant options.
3. Steps may be provided, see step detail sheet.
4. Pipe openings provided, as required.

108" DIAMETER WET WELL

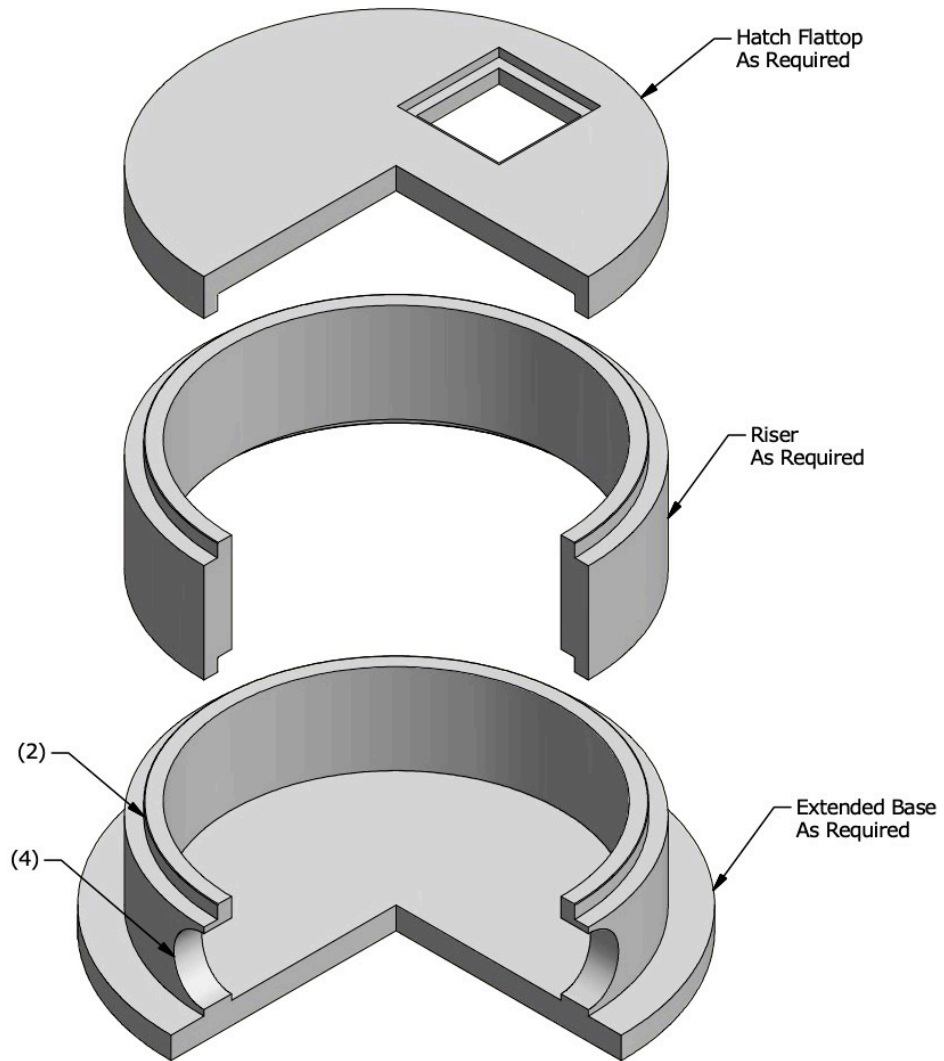


Isometric View

NOTES

1. Manhole sections conform to ASTM C478.
2. See joint details for joint sealant options.
3. Steps may be provided, see step detail sheet.
4. Pipe openings provided, as required.

120" DIAMETER WET WELL

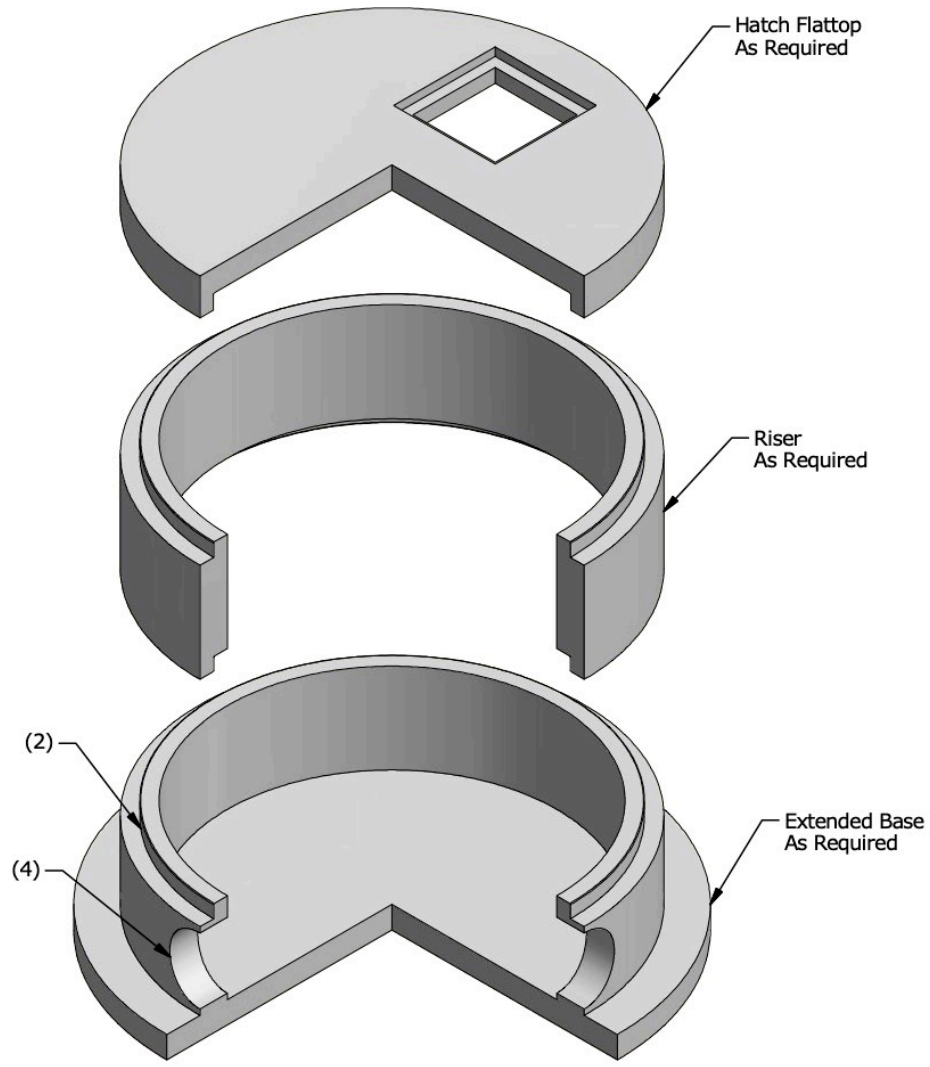


Isometric View

NOTES

1. Manhole sections conform to ASTM C478.
2. See joint details for joint sealant options.
3. Steps may be provided, see step detail sheet.
4. Pipe openings provided, as required.

126" DIAMETER WET WELL

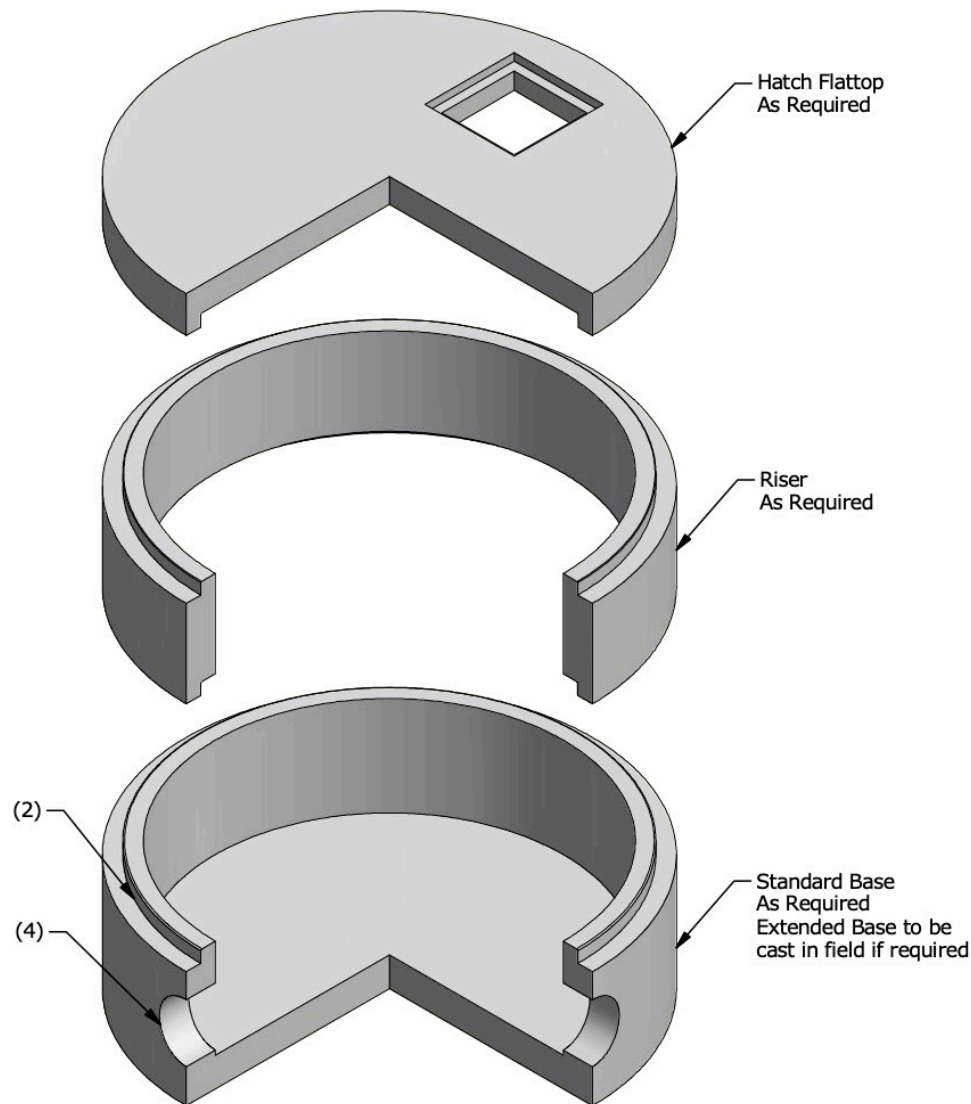


Isometric View

NOTES

1. Manhole sections conform to ASTM C478.
2. See joint details for joint sealant options.
3. Steps may be provided, see step detail sheet.
4. Pipe openings provided, as required.

144" DIAMETER WET WELL



Isometric View

- NOTES**
1. Manhole sections conform to ASTM C478.
 2. See joint details for joint sealant options.
 3. Steps may be provided, see step detail sheet.
 4. Pipe openings provided, as required.

Manhole sizes available from Ashland, VA facility							
Inside Diameter	Wall Thickness	Floor Thickness	Flat-Top Thickness	Regular Base	Extended Base	Joint Height	Available Joint Types *
48"	5"	8"	6"	Y	6" or 8"	2 3/4"	G, M, S/O
60"	6"	8"	8"	Y	8"	2 3/4"	G, M, S/O
72"	7"	8"	8"	Y	8"	2 3/4"	G, M, S/O
84"	8"	8"	8"	Y	8"	5"	G, M, S/O
96"	9"	8"	8"	Y	8"	5"	G, M, S/O
120"	10"	8" or 10"	10"	Y	8"	6"	G, M, S/O
144"	12"	12"	10"	Y	N/A	6"	G, M, S/O

* Joint types: G=Grouted, M=Mastic (ASTM C990), S/O=Single Offset (ASTM C443)

Manhole sizes available from Salem, VA facility							
Inside Diameter	Wall Thickness	Floor Thickness	Flat-Top Thickness	Regular Base	Extended Base	Joint Height	Available Joint Types *
48"	5"	8"	6"	Y	8"	2 3/4"	G, M, S/O
60"	6"	8"	8"	Y	8"	2 3/4"	G, M, S/O
72"	7"	8"	8"	Y	8"	2 3/4"	G, M, S/O
84"	8 3/4"	8"	8"	Y	6"	5"	G, M, S/O
96"	9"	8"	8"	Y	6"	5"	G, M
108"	10"	8"	8"	Y	6"	5 1/4"	G, M
126"	10 1/2"	8"	8"	Y	N/A	7"	G, M

* Joint types: G=Grouted, M=Mastic (ASTM C990), S/O=Single Offset (ASTM C443)

Manhole sizes available from Harisonburg, VA facility							
Inside Diameter	Wall Thickness	Floor Thickness	Flat-Top Thickness	Regular Base	Extended Base	Joint Height	Available Joint Types *
48"	5"	8"	6"	N/A	6"	2 3/4"	G, M, S/O
60"	6"	8"	8"	N/A	6"	2 3/4"	G, M, S/O
72"	7"	8"	8"	N/A	6"	2 3/4"	G, M, S/O

* Joint types: G=Grouted, M=Mastic (ASTM C990), S/O=Single Offset (ASTM C443)

Manhole sizes available from Martinsburg, WV facility							
Inside Diameter	Wall Thickness	Floor Thickness	Flat-Top Thickness	Regular Base	Extended Base	Joint Height	Available Joint Types *
48"	5"	8"	6"	N/A	6"	2 3/4"	G, M, S/O
60"	6"	8"	8"	N/A	6"	2 3/4"	G, M, S/O
72"	7"	8"	8"	N/A	6"	2 3/4"	G, M, S/O
84"	8"	8"	8"	N/A	6"	5"	G, M, S/O
96"	9"	8"	8"	N/A	6"	5"	G, M, S/O

* Joint types: G=Grouted, M=Mastic (ASTM C990), S/O=Single Offset (ASTM C443)

Manhole sizes available from Dunn, NC facility

Inside Diameter	Wall Thickness	Floor Thickness	Flat-Top Thickness	Regular Base	Extended Base	Joint Height	Available Joint Types *
48"	5"	6"	8"	Y	6"	4"	G, M
60"	6"	8" or 12"	8"	Y	8"	5"	G, M
72"	7"	8" or 12"	8"	Y	6"	5"	G, M
84"	7"	8"	8" or 12"	Y	7"	5"	G, M
96"	8"	8" or 12"	8" or 12"	Y	14"	5"	G, M
120"	10"	12"	8" or 12"	Y	14"	5"	G, M
144"	12"	12"	10"	Y	N/A	6"	G, M

* Joint types: G=Grouted, M=Mastic (ASTM C990)

Manhole sizes available from Summerville, SC facility

Inside Diameter	Wall Thickness	Floor Thickness	Flat-Top Thickness	Regular Base	Extended Base	Joint Height	Available Joint Types *
48"	5"	6"	8"	Y	4" or 7"	3 1/2"	G, M
60"	6"	8"	8"	Y	6"	5"	G, M
72"	7"	8"	8"	Y	5"	5"	G, M
84"	8"	8"	8"	Y	N/A	7"	G, M
96"	9"	12"	12"	Y	N/A	5"	G, M
120"	10"	12"	12"	Y	N/A	6"	G, M

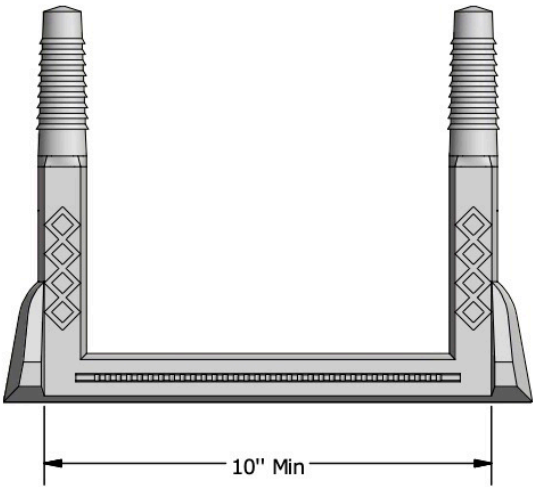
* Joint types: G=Grouted, M=Mastic (ASTM C990)

Manhole sizes available from Rincon, GA facility

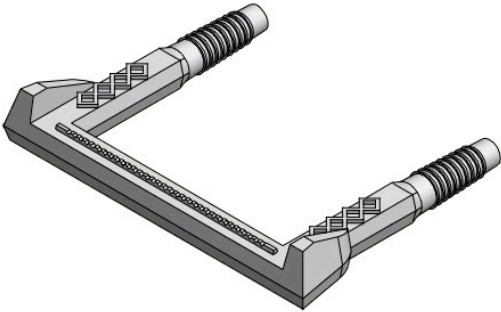
Inside Diameter	Wall Thickness	Floor Thickness	Flat-Top Thickness	Regular Base	Extended Base	Joint Height	Available Joint Types *
48"	5"	8"	6"	Y	N/A	2 1/2"	G, M
60"	6"	8"	8"	Y	6"	4 1/2"	G, M
72"	7"	8"	8"	Y	N/A	5"	G, M

* Joint types: G=Grouted, M=Mastic (ASTM C990)

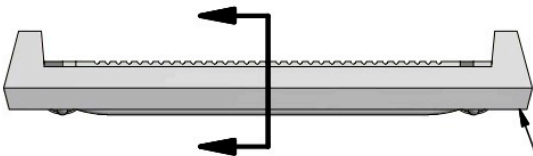
TYPICAL MANHOLE STEP DETAIL



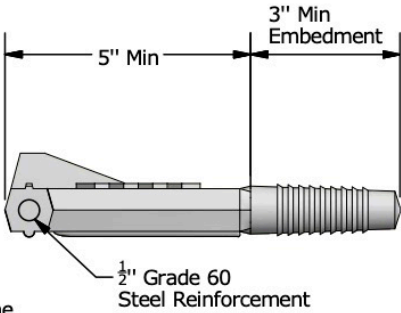
Plan View



Isometric View



Elevation View

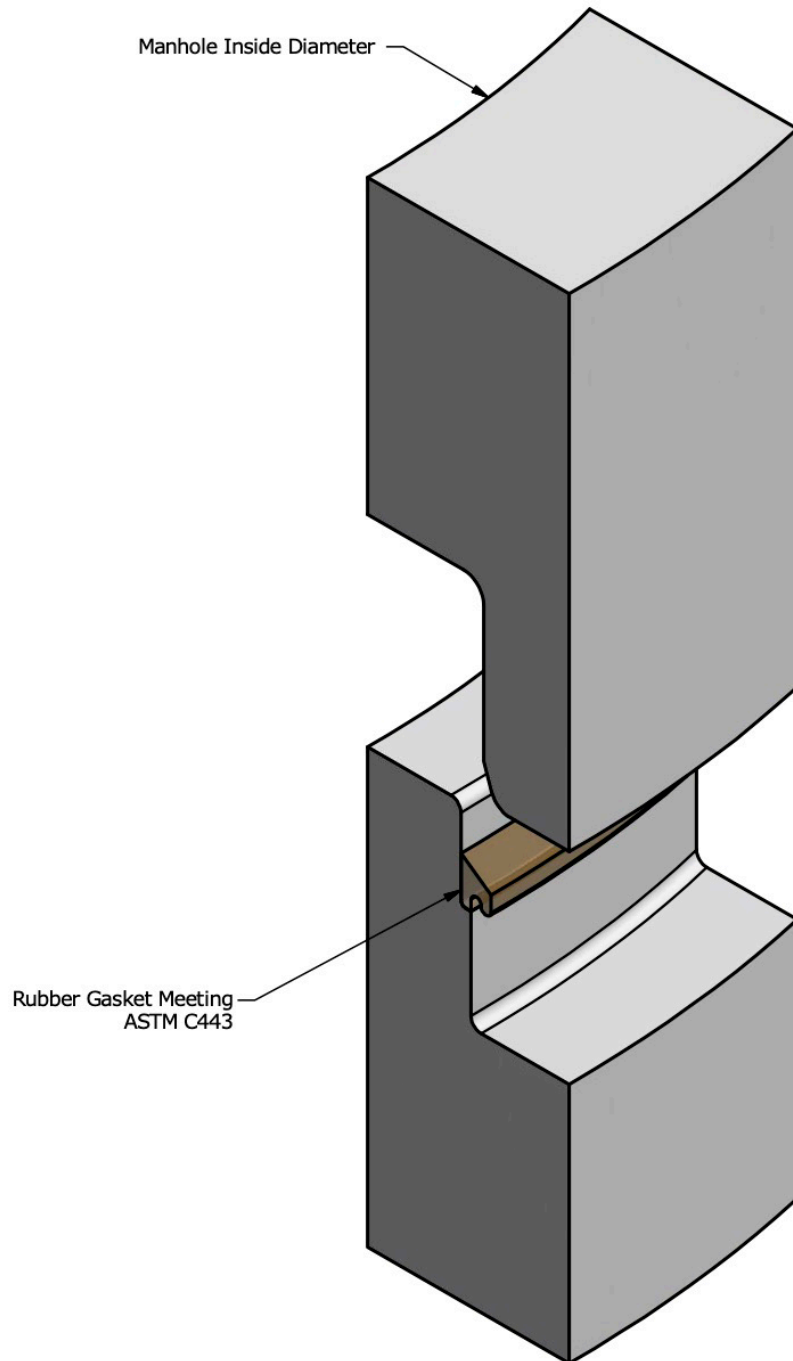


Section View

NOTES

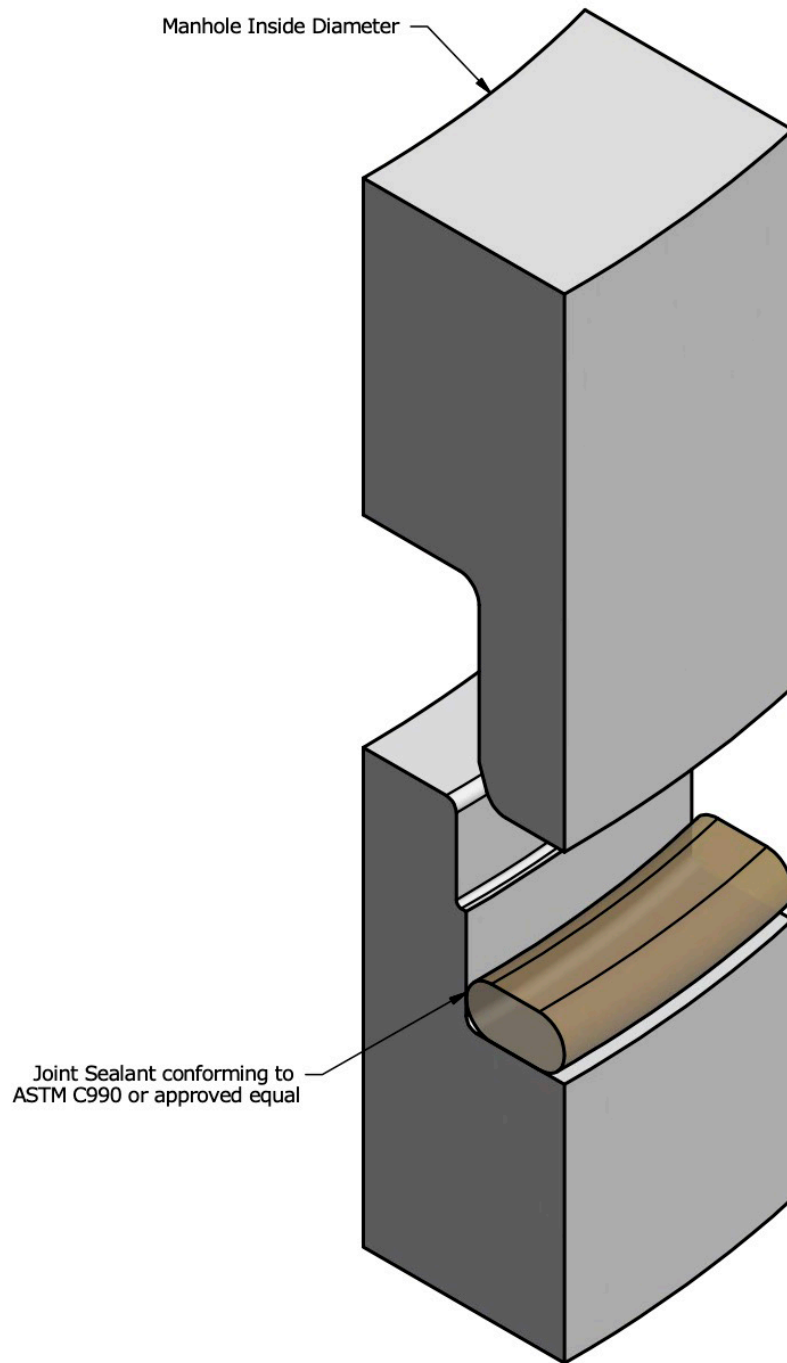
1. Step design, installation, and material shall meet the requirements of ASTM C478.
2. Plastic material consists of super high impact resistant copolymer polypropylene plastic and conform to specific requirements as detailed in ASTM D4101.
3. Reinforcing steel shall be 12" rebar, Grade 60 and meet the requirements of ASTM A615.
4. Step width and spacing are consistent with the latest requirements of OSHA.
5. Manufacturer's literature available upon request.

SINGLE OFFSET JOINT DETAIL



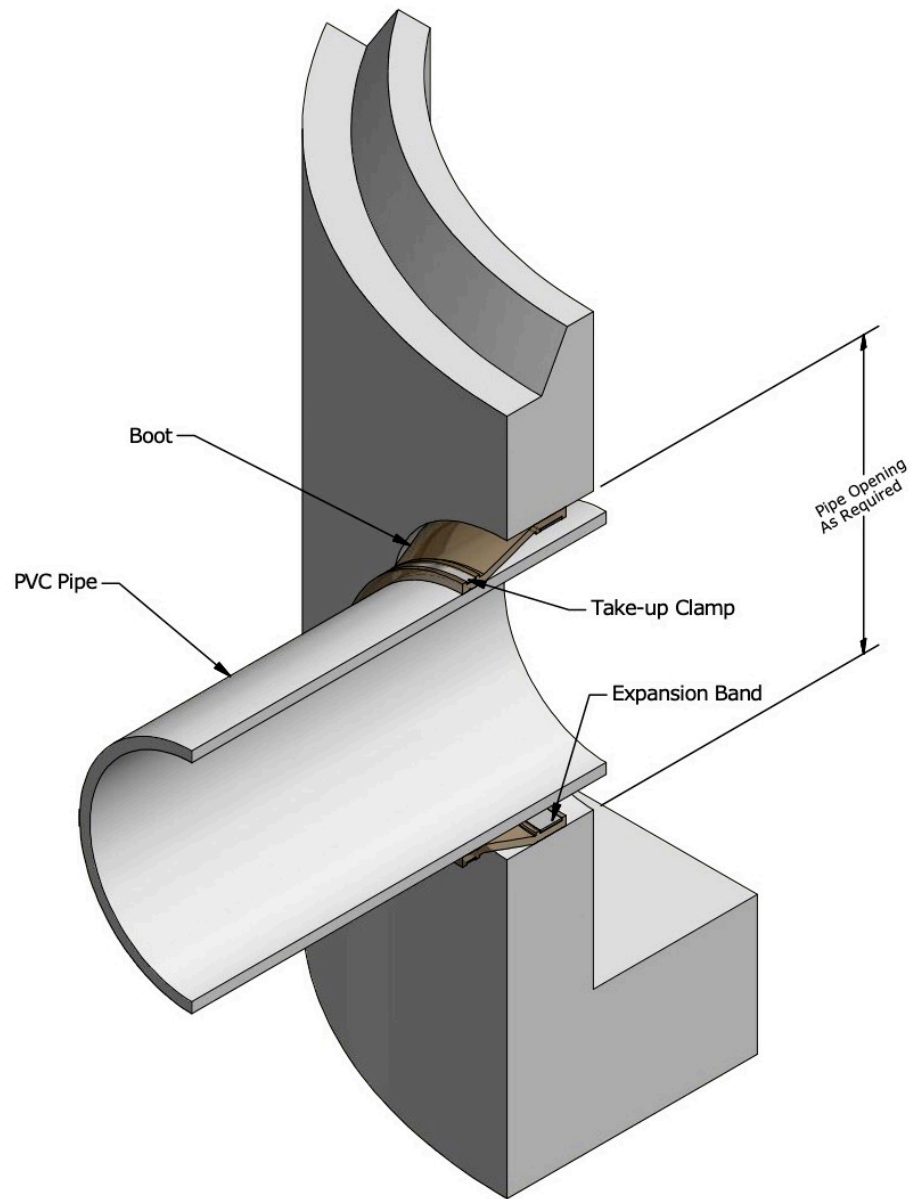
Isometric View

PREFORMED MASTIC JOINT DETAIL



Isometric View

MANHOLE PIPE CONNECTION DETAIL BOOT TYPE-FLEXIBLE CONNECTION

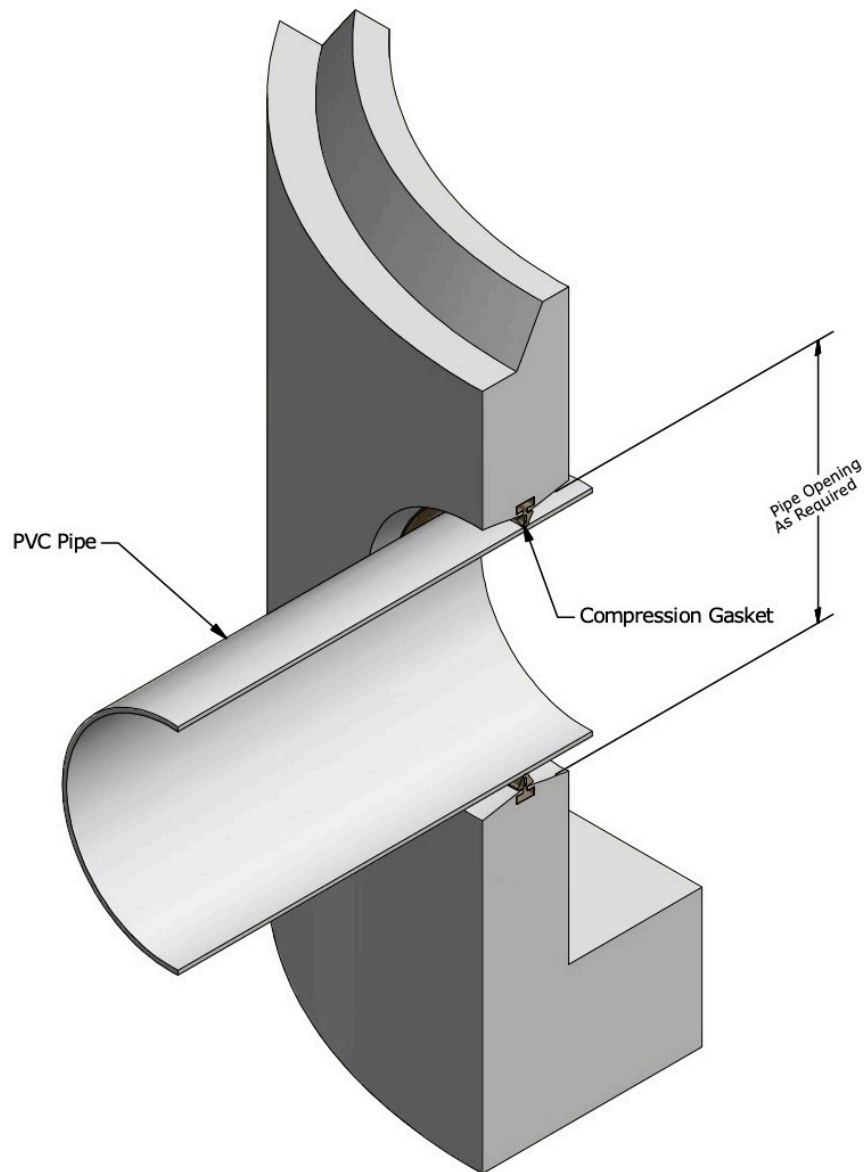


Isometric View

NOTES

1. Pipe connection detail used shall be consistent with the specific job requirements as well as the pipe size, type and the structure to be used.
2. Flexible connectors shall meet the requirements of ASTM C923 specifications for Resilient Connectors Between Reinforced
3. Concrete Manhole Structures.
4. Expansion bands, see literature.
5. Manufacture's Literature available upon request.

MANHOLE PIPE CONNECTION DETAIL COMPRESSION GASKET-FLEXIBLE CONNECTION

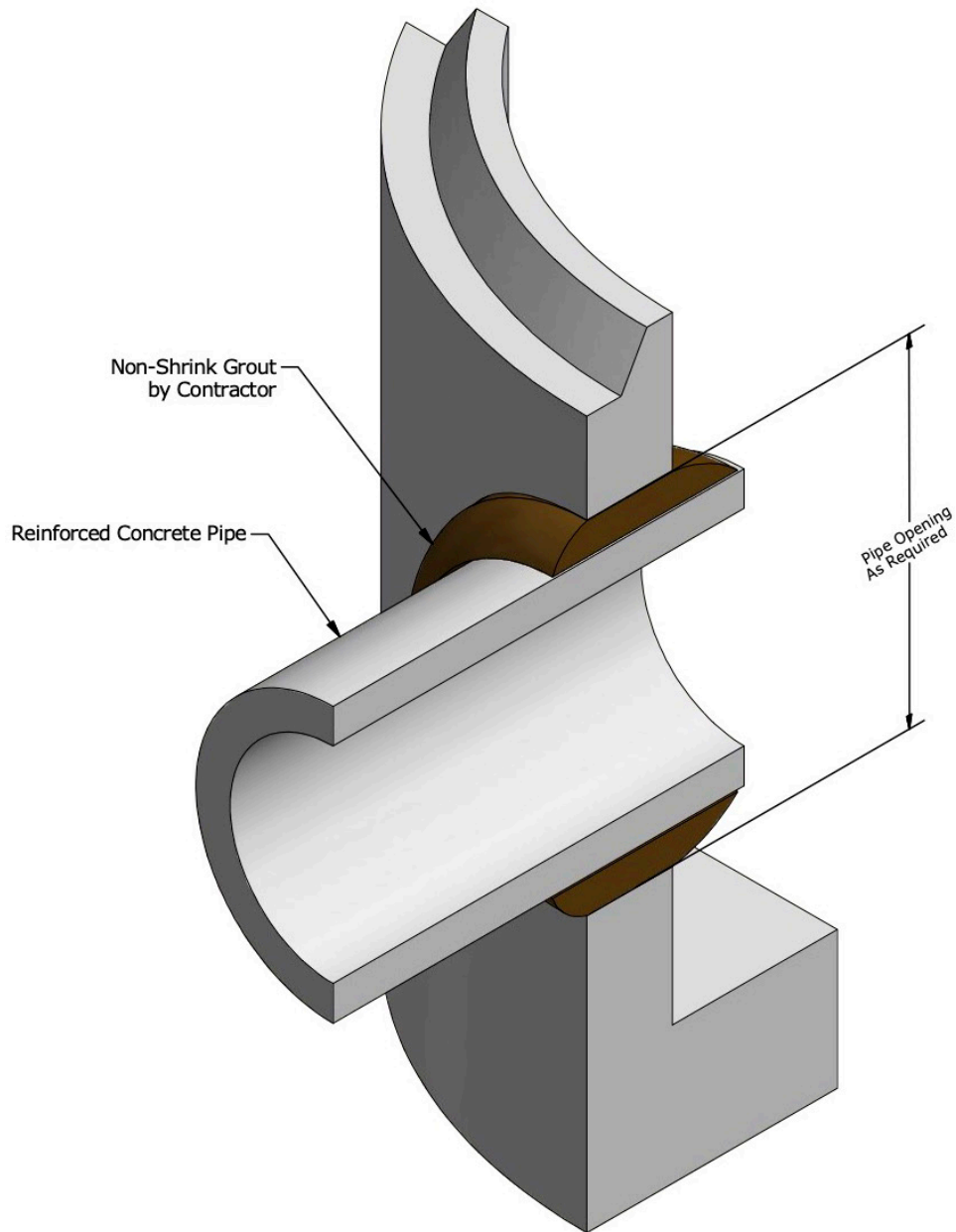


Isometric View

NOTES

1. Pipe connection detail used shall be consistent with the specific job requirements as well as the pipe size, type and the structure to be used.
2. Flexible connectors shall meet the requirements of ASTM C923 specifications for Resilient Connectors Between Reinforced Concrete Manhole Structures.
3. Manufacturer's Literature available upon request.

MANHOLE PIPE CONNECTION DETAIL GROUT TYPE-RIGID CONNECTION



Isometric View

NOTES

1. Pipe connection detail used shall be consistent with the specific job requirements as well as the pipe size, type and the structure to be used.
2. Rigid connections shall be made on site by the contractor and meet project requirements for mortar joint connections.



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V04012026