



**SPECIAL PROVISIONS  
FOR  
SANITARY AND STORM SEWER STRUCTURES**

**Woodbury County  
STP-U-7057(689)--70-97**

**Effective Date  
May 19, 2015**

**THE STANDARD SPECIFICATIONS, SERIES 2012, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.**

Make the following revisions to the Standard Specifications:

**4149.04, D, 2, a, Sanitary Sewers.**

**Add the Article:**

- 4) Joint Wrap:** Apply a 9 inch Cretex wrap or approved equal to all exterior joints.

**4149.04, D, 2, b, Storm Sewers.**

**Add the Articles:**

- 3) Rubber O-ring or Profile Gasket:** Flexible joint, complying with ASTM C 443.
- 4) Joint Wrap:** Apply a 9 inch Cretex wrap or approved equal to all exterior joints.

**4149.04, F, 1, a.**

**Add the Articles:**

- 1) Precast Manhole:** Integral base and riser section or poured base.
- 2) Cast-in-place manhole:** Base riser section embedded at least 3 inches into poured-in-place base or embedded in concrete.
- 3) Cast-in-place base with formed invert.**

**4149.04, H, 3.**

**Replace the Article:**

Construct manholes and intakes with the following adjustment ring stack heights:

- a.** Minimum: 4 inches (100 mm) for new manholes and intakes. Not to be used for Half Special, SWS-8, and DWS-12.
- b.** Maximum: 12 inches (300 mm) for new manholes and intakes; ~~16 inches (400 mm)~~ 24 inches for existing manholes and intakes.
- c.** Install at least two rings per manhole in unpaved areas.

**4149.04, I, 3, Casting Types.**

**Replace** Articles a and b:

**a. Manholes.** All manhole castings shall be self sealing. Use bolted cover when specified in the plans.

~~Refer to the contract documents.~~ Approved manhole castings:

- 1) Neenah R-1642 Type A lid
- 2) Neenah R-1673-B (Floating)
- 3) East Jordan 1045 Type A lid
- 4) East Jordan 1510 (Floating)
- 5) Deeter 1247
- 6) Deeter 1187 (Floating)

**b. Intakes.**

1) ~~Refer to the contract documents.~~ Casting types

**a)** For Half, Single Wing, and Double Wing Special intake shall be:

- (1) Neenah R-1695
- (2) East Jordan 3124
- (3) Deeter 1158

**b)** For alley drops

- (1) Neenah R-3577
- (2) East Jordan 7568
- (3) Deeter 2245

2) ~~Castings may include environmental symbols or messages, or both, such as "DUMP NO WASTE, DRAINS TO RIVER."~~ SW-603 Type R and Type S grates shall be flat grates with rectangular or square openings. Vane grates shall not be used.

3) All inlets shall be labeled with "DUMP NO WASTE, DRAINS TO RIVER" or other wording approved by the engineer. For area intakes, alley drop inlets, or curb type inlets the label may be ordered as part of the grate or casting from the manufacturer. For concrete top inlets the label can be either on the manhole cover or by plates embedded into the concrete facing and near the street. The cost to label the inlets shall be included in the cost to construct the inlet. Approved plates are:

- a)** Neenah R-3000-A
- b)** East Jordan 7001

**4149.04, J, 1, a, 1, Rubber Sleeve and Extension.**

**Delete** the Article:

~~1) **Rubber Sleeve and Extension.**~~

~~**a)** Corrugated; minimum thickness of 3/16 inches (5mm), according to ASTM C 923/C 923M.~~

~~**b)** Minimum allowable vertical expansion of at least 2 inches (50 mm).~~

**4149.04, J, 2, b.**

**Replace** the Article:

**Interior:** ~~When interior manhole lining is specified, provide lining according to Article 4149.02, A (lined, reinforced concrete pipe).~~ All sanitary manholes are required to have a two coat hy-build epoxy liner factory applied. Field installation of hy-build epoxy liner in accordance with the manufacturer's suggested installation is acceptable.

**4149.04, L, 1.**

**Replace** the Article:

~~Provide steps in all circular precast manholes unless specified otherwise in the contract documents.~~ Steps shall be placed in all manholes regardless of type.

**4149.04, Sanitary and Storm Sewer Structures.**

Add the Articles:

**P. Sioux City Intakes.**

1. **Half Special Intake:** Half special intake shall be constructed as shown in figure SC 6010.403 when shown on the plans.
2. **SWS-8 Intake:** SWS-8 intake shall be constructed as shown in figure SC 6010.404 when shown on the plans. This is the standard intake for the City of Sioux City.
3. **DWS-12 Intake:** DWS-12 intake shall be constructed as shown in figure SC 6010.405 when shown on the plans.

**Q. Additional Material for Storm Sewer Manholes.**

Internal rubber seal must be installed on all storm sewer manholes. Refer to SUDAS Standard Specifications 6010 2.11A for specifications.