

SUDAS Revision Submittal Form

Status Date:	<u>As of 9/13/2018</u>	Topic:	<u>Steps in manholes</u>
Manual:	<u>Specifications</u>	Manual Location:	<u>6010, 2.13; Figures 6010.301, 303, 304, 305, 401, 404, and 405</u>

Requested Revision:

2.13 STEPS

A. Provide **Do not install** steps in ~~all circular, precast~~ **any** manholes **or intakes** unless otherwise specified in the contract documents.

B. If specified, comply with the following:

- ~~B1.~~ **1.** ~~Comply with~~ ASTM C 478.
- ~~C2.~~ **2.** Manufacture using polypropylene encased steel.
- ~~D3.~~ **3.** Uniformly space steps at 12 to 16 inches.
- ~~E4.~~ **4.** Align with vertical side of eccentric top section.
- ~~F5.~~ **5.** Place first step no more than 36 inches from top of casting.

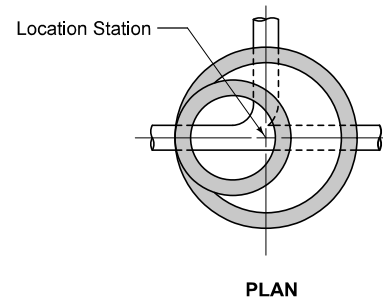
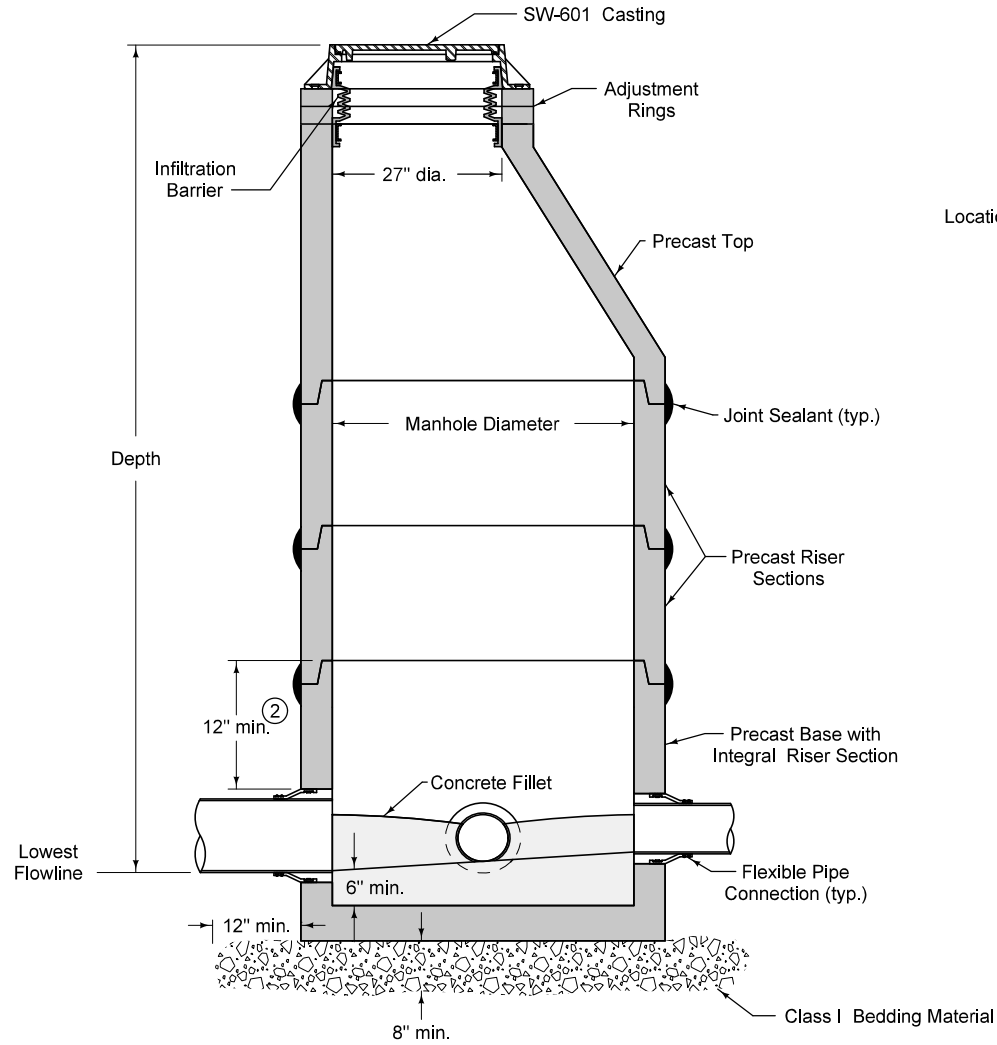
Reason for Revision: Changed the default to no steps in manholes and intakes because of the safety concerns.

Comments: Iowa DOT will make the same changes.

EXAMPLE

Do not install steps unless otherwise specified in the contract documents.

- ① For additional configurations, maintain a minimum of 12 inches of concrete between vertical edges of pipe openings.
- ② 12 inch minimum riser height above all pipe openings.



Manhole Diameter (inches)	Maximum Pipe Diameter (inches) for 2 Pipes ①	
	At 180° Separation	At 90° Separation
48	24	18
60	36	24
72	42	30
84	48	36
96	60	42

		REVISION	
		2	04-17-18
FIGURE 6010.301	STANDARD ROAD PLAN	SW-301	
		SHEET 1 of 1	
REVISIONS: Changed "Invert" to "Concrete Fillet".			
SUDAS DIRECTOR		DESIGN METHODS ENGINEER	
CIRCULAR SANITARY SEWER MANHOLE			