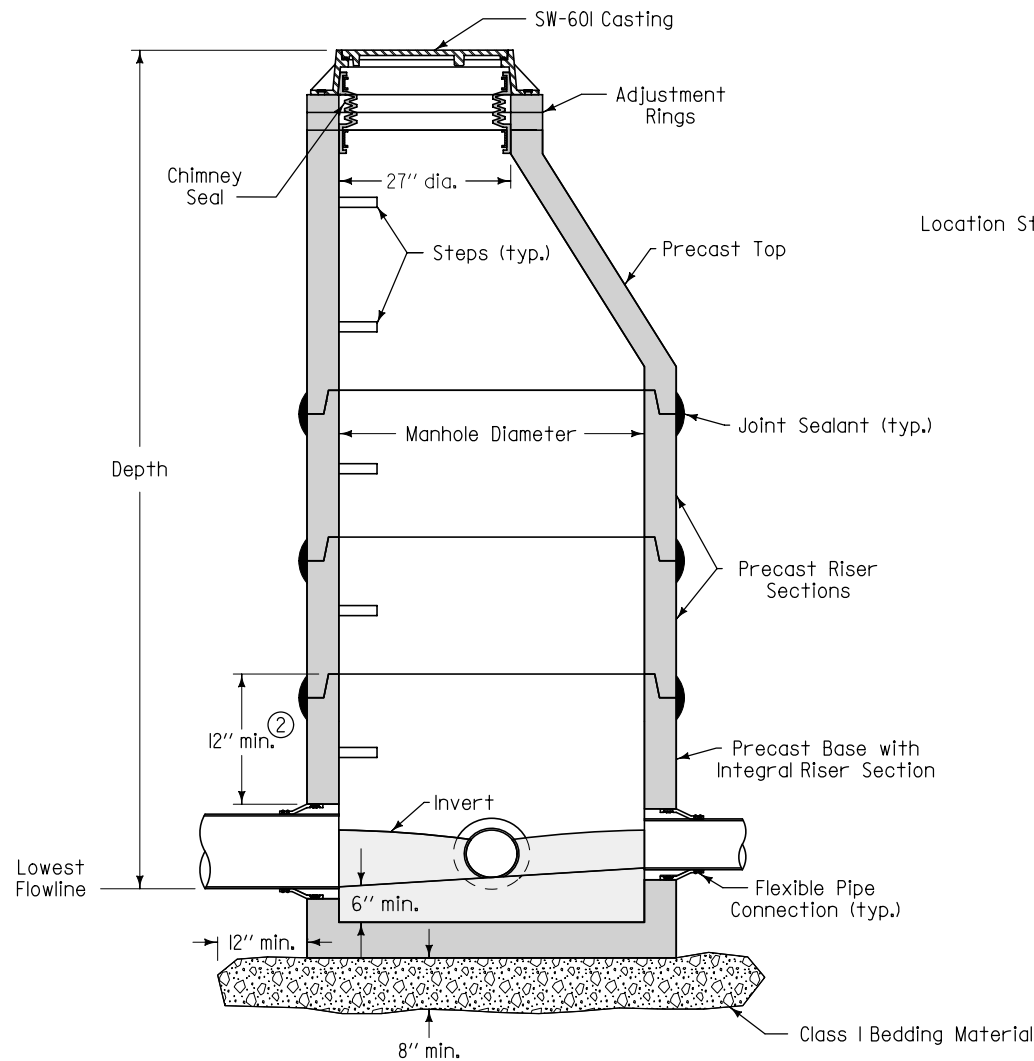
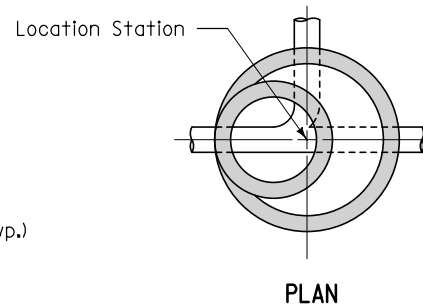


- ① For additional configurations, maintain a minimum of 12 inches of concrete between vertical edges of pipe openings.
- ② 12 inch minimum riser height above all pipe openings.



TYPICAL SECTION



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

SUDAS	Iowa Department of Transportation	REVISION	
		NEW	04-21-09
FIGURE 6010.301		STANDARD ROAD PLAN	
		SW-301 SHEET 1 of 1	
REVISIONS: New. Replaces SUDAS Type "A" Manhole. Will replace RA-51			
SUDAS DIRECTOR		DESIGN METHODS ENGINEER	
CIRCULAR SANITARY SEWER MANHOLE			