

- For new pipe connections, provide cored opening with flexible pipe connector.
- ② For existing pipe connections, provide an arched opening with a diameter up to 6 inches larger than outside diameter of pipe. Install waterstop around existing pipe. Fill void between pipe and opening with non-shrink grout.
- 3 For additional configurations, maintain a minimum of 12 inches of concrete between vertical edges of pipe openings.
- (4) 12 inch minimum riser height above all pipe openings.

Manhole Diameter	Maximum Pipe Diameter ③ (inches) for 2 Pipes		
(inches)	At 180° Separation	At 90° Separation	
48	24	18	
60	36	24	
72	42	30	
84	48	36	
96	60	42	

A STIDAS	lowa Department of Transportation	REVISION NEW 04-21-09		
BEEN SOLDING	of Transportation	CW	202	
GURE 6010.303	STANDARD ROAD PLAN	JM.	1 of 1	
VISIONS:New. Replaces SUDAS Type "I" Manhole.				
Dogges Maili Of				

SANITARY SEWER MANHOLE OVER EXISTING SEWER