



**TYPICAL SEWER TRENCH**  
N.T.S.

**Required Concrete Pipe Class**

pipe size	Depth of Cover																					
	<15	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
18	1	1	1	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
21	1	1	1	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
24	1	1	1	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
27	1	1	1	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
30	1	1	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
33	1	1	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
36	1	1	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
42	1	1	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
48	1	1	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
54	1	1	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
60	1	1	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
66	1	1	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
72	1	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4

Source: Fill Height Tables, American Concrete Pipe Association 2001

**NOTES:**

1. MINIMUM ALLOWABLE DEPTH OF COVER IS 3 FT.
2. IN EARTH, CONCRETE PIPE SHALL BE BEDDED IN 3" MINIMUM #57 CRUSHED STONE BELOW THE PIPE UP TO THE SPRINGLINE OF THE PIPE. EMBEDMENT MATERIAL SHALL BE COMPACTED TO 100% STANDARD PROCTOR.
3. IN ROCK, CONCRETE PIPE SHALL BE BEDDED IN 6" MINIMUM #57 CRUSHED STONE BELOW THE PIPE UP TO THE SPRINGLINE OF THE PIPE. EMBEDMENT MATERIAL SHALL BE COMPACTED TO 100% STANDARD PROCTOR.
4. PIPE CLASS REQUIREMENTS ARE BASED ON DEAD LOAD CALCULATIONS AND ASTM PIPE CLASSIFICATIONS:

**TRENCH WIDTH**

THE MINIMUM TRENCH WIDTH SHALL BE THE NOMINAL PIPE DIAMETER PLUS 24", EXCEPT THAT THE MINIMUM TRENCH WIDTH SHALL NOT BE LESS THAN 48" IN ANY CASE

<b>STANDARD DETAIL</b>	
Metropolitan Sewerage District of Buncombe County, North Carolina	
<b>TYPICAL TRENCH DETAIL FOR REINFORCED CONCRETE PIPE</b>	
DATE APPROVED: MARCH 2017	2.03 - 01