

**CLASS I EMBEDMENT MATERIAL:**

1. CRUSHED STONE – STANDARD GRADE 4:
  - A. 1-1/2" SIEVE – 0% RETAINED
  - B. 1" SIEVE – 0% TO 5% RETAINED
  - C. 1/2" SIEVE – 40% TO 75% RETAINED
  - D. NO. 4 SIEVE – 90% TO 100% RETAINED
  - E. NO. 8 SIEVE – 95% TO 100% RETAINED
  
2. NATURAL GRAVEL – UNCRUSHED, WASHED STONE WITH NO CLAY OR ORGANICS.
  - A. 1-1/2" SIEVE – 100% PASSING
  - B. 3/4" SIEVE – 100% RETAINED

**GENERAL NOTES:**

1. FOR THE DEFINITION OF THE BACKFILL MATERIAL TERMS SEE N.C.T.C.O.G. SPECIFICATIONS.
2. FINAL BACKFILL SHALL BE SELECT NATIVE MATERIAL COMPACTED TO THE TOP OF THE SUBGRADE IN 6 INCH LIFTS TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY AS DETERMINED BY ASTM D 698.
3. THE USE OF CEMENT STABILIZED SAND OR FLOWABLE FILL FOR FINAL BACKFILL IS RESTRICTED PRIMARILY TO LOCALIZED OR SPOT REPAIRS OF UTILITIES UNDER PAVING WHERE RESTORATION OF PAVING AND TRAFFIC IS TIME CRITICAL AS APPROVED BY THE ENGINEERING DEPARTMENT.
4. FOR USE IN EARTH OR ROCK UP TO A MAXIMUM OF 30'-0" EXCAVATION.
5. I.D. TAPE MUST BE 6" WIDE BY 4.0 MIL THICK POLYETHYLENE PLASTIC.

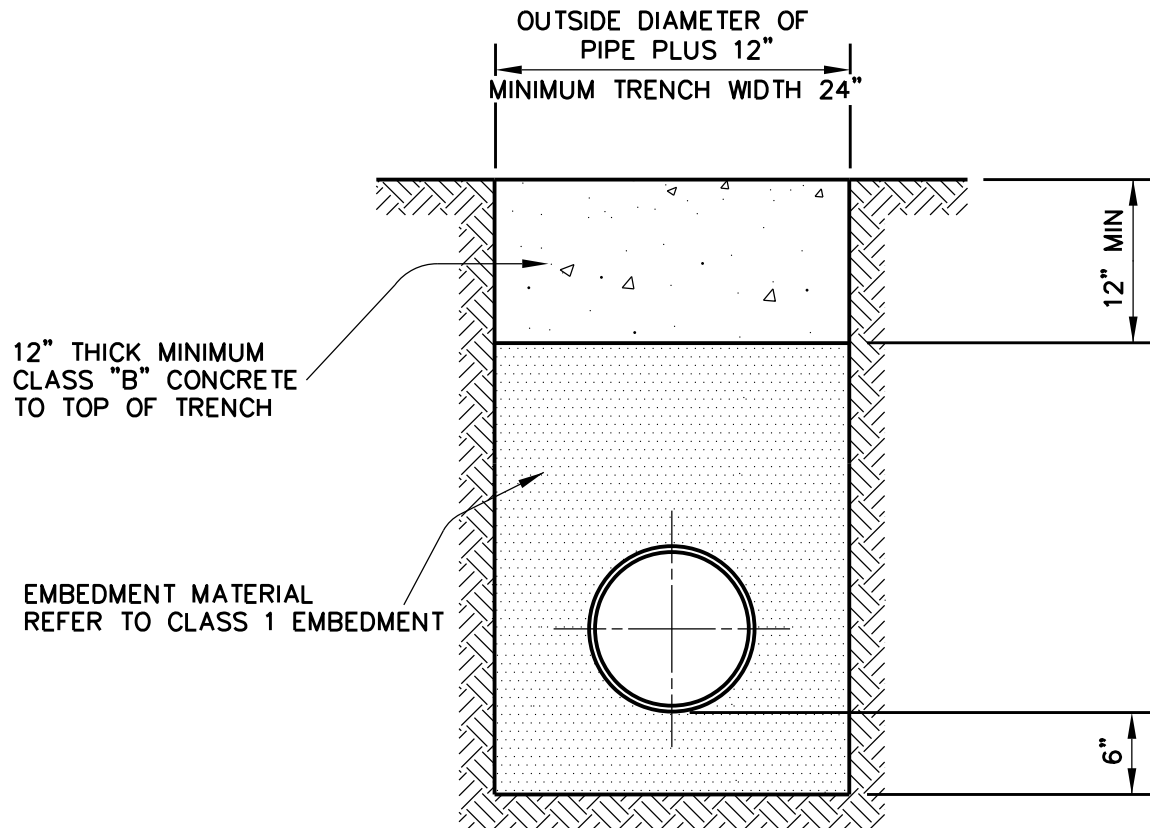
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Revision Date: 03/14

Scale : N/A	Date : 06/01/05
Design :	
Drawn : JMK	
Dwg. File : EMB_001.DWG	
Project No. : STANDARD-DETAILS	



**CLASS I – WASTEWATER  
EMBEDMENT DETAIL**

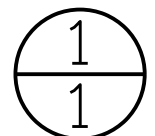


## CLASS II EMBEDMENT

### GENERAL NOTES:

1. CONCRETE EMBEDMENT TO EXTEND 5' MIN. INTO CREEK BANK.
2. CREEK BANK BACKFILL OF TRENCH LINE SHALL BE CEMENT STABILIZED SAND AND EXTEND 5' INTO BANK FROM FACE OF SLOPE.

Revision Date: 3/14



Scale : N/A	Date : 06/01/05
Design :	
Drawn : JMK	
Dwg. File : EMB_002.DWG	
Project No. : STANDARD-DETAILS	

  
**GARLAND**  
 ENGINEERING  
 STANDARD DETAILS

**CLASS II – WASTEWATER**  
**EMBEDMENT DETAIL**  
 FOR ROCK DITCHES IN A CREEK BED

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