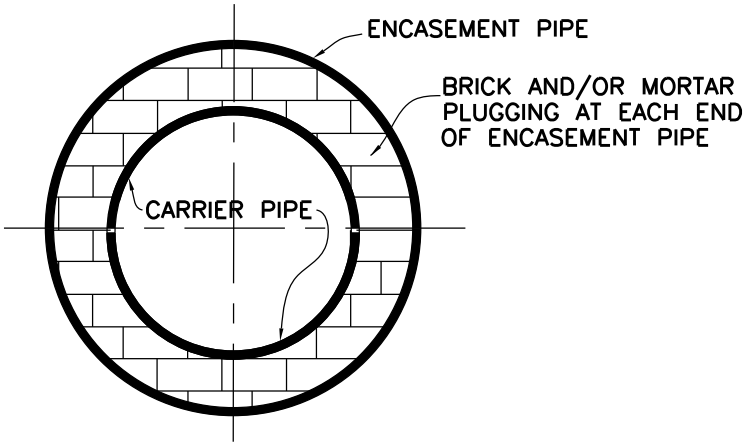
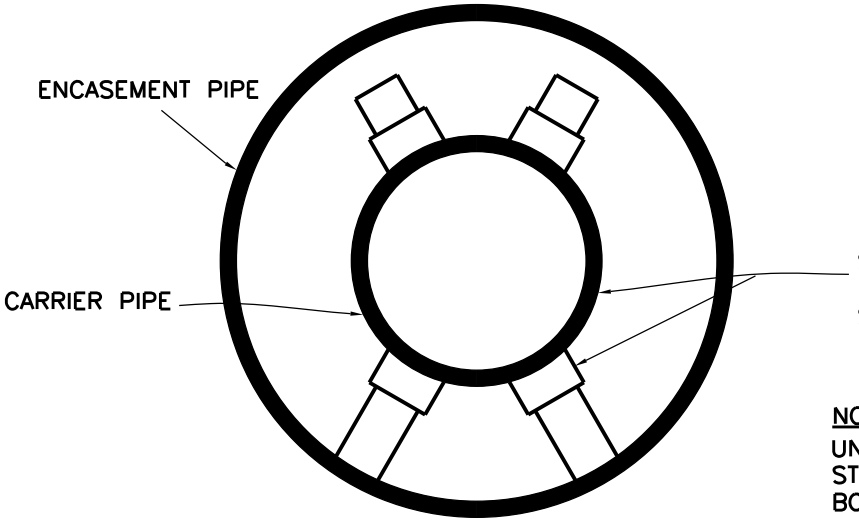


TYPICAL PLUG



STAINLESS STEEL CASING SPACERS. (CASCADE WATERWORKS, ADVANCE MODEL S.S.I, RACI TYPE E/H OR APPROVED EQUAL).

NOTE:
UNLESS OTHERWISE INDICATED, STAINLESS STEEL SPACERS SHALL BE USED FOR ALL BORING & ENCASEMENT PROJECTS.

GENERAL NOTES:

1. THE PAY ITEM FOR ALL BORING AND ENCASEMENT SHALL INCLUDE ALL CARRIER PIPE, FITTINGS, ENCASEMENT PIPE, CONCRETE CRADLES, GROUT, MORTAR, BRICK ETC. AND ALL OTHER INCIDENTALS NECESSARY TO COMPLETE IN PLACE ACCORDING TO THE PLANS AND SPECIFICATIONS.
2. ALL ENCASEMENT PIPE FOR BORES SHALL BE LIMITED TO SMOOTH STEEL PIPE.

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Design :			
Drawn : JMK			
Dwg. File : TUN_001.DWG			
Project No. : STANDARD-DETAILS			

HIGHWAY CROSSING ENCASEMENT PIPE, CLASS, COVER

ENC. PIPE I.D.	STEEL PIPE	
	Wall Thick	Max. Cov.
in.(cm.)	In.(mm.)	Ft.(M)
12" (30.5)	3/16" (4.76)	∞
15" (38.1)	1/4" (6.35)	∞
18" (45.7)	1/4" (6.35)	∞
21" (53.3)	5/16" (7.94)	∞
24" (60.9)	3/8" (9.53)	∞
27" (68.6)	7/16" (11.11)	∞
30" (76.2)	7/16" (11.11)	∞
36" (91.4)	1/2" (12.7)	∞
42" (106.7)	1/2" (12.7)	∞
48" (121.9)		
54" (137.2)		
60" (152.4)		
66" (167.6)		
72" (182.9)		

NOTE: If Maximum Cover Is Exceeded, The Wall Thickness Will Be Calculated By The Designer.

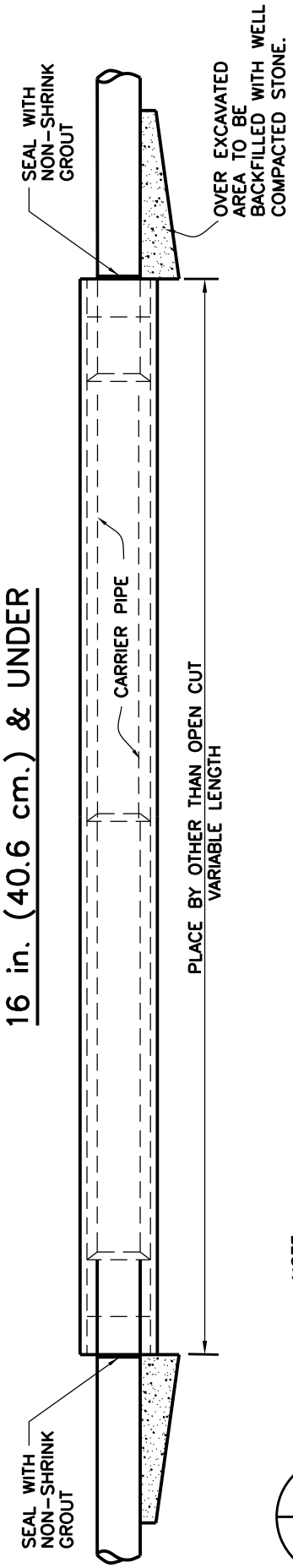
: ∞ Infinity

a) :2-2/3" (6.8cm) x 1/2" (1.3cm) Carr.

b) :3" (7.6cm) x 1" (2.5cm) Carr.

TYPICAL HIGHWAY CROSSING FOR SEWER MAINS 6" & OVER & FOR WATER MAINS

16 in. (40.6 cm.) & UNDER



NOTE:
CARRIER PIPE SPACERS TO BE MADE UP OUTSIDE OF ENCASEMENT PIPE. (PER MANUFACTURERS PIPE REQUIREMENTS)

2/2

Revision Date: 12/11

Scale : N/A Date : 06/01/05	GARLAND ENGINEERING STANDARD DETAILS	BORE OR TUNNEL FOR SEWER OR WATER
Design :		
Drawn : JMK		
Dwg. File : TUN_001.DWG		
Project No. : STANDARD-DETAILS		