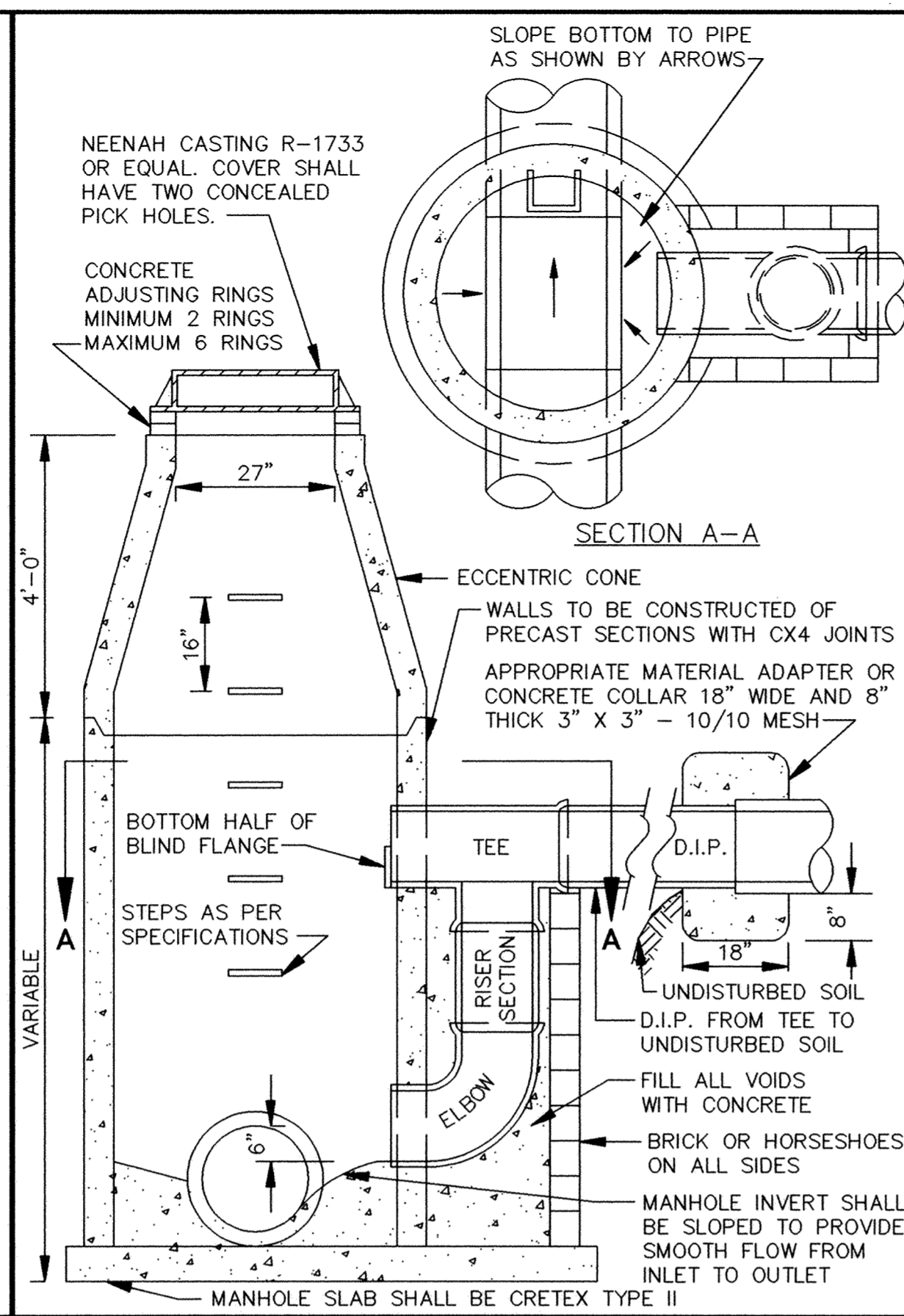
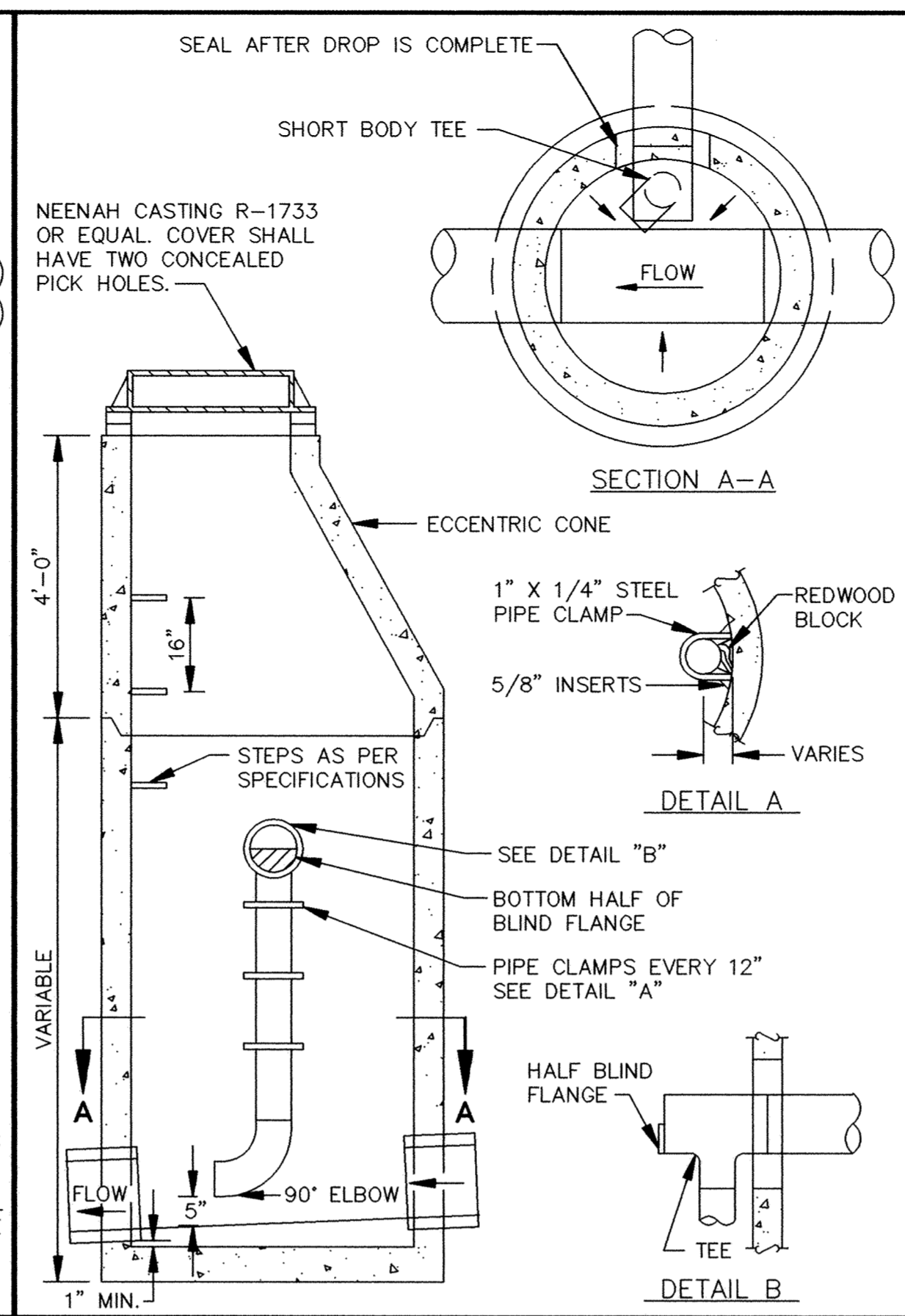


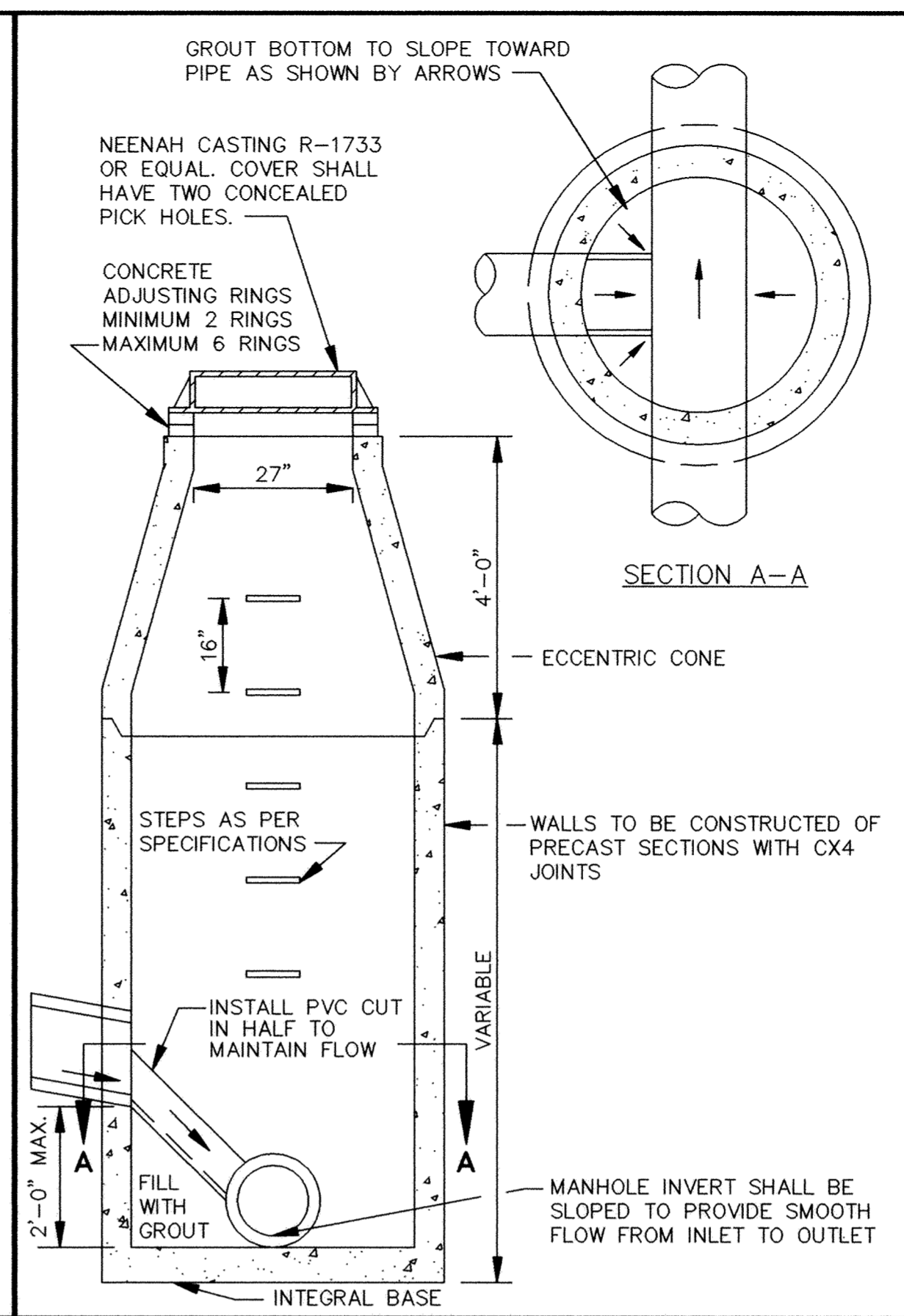
STANDARD AIR RELIEF MANHOLE



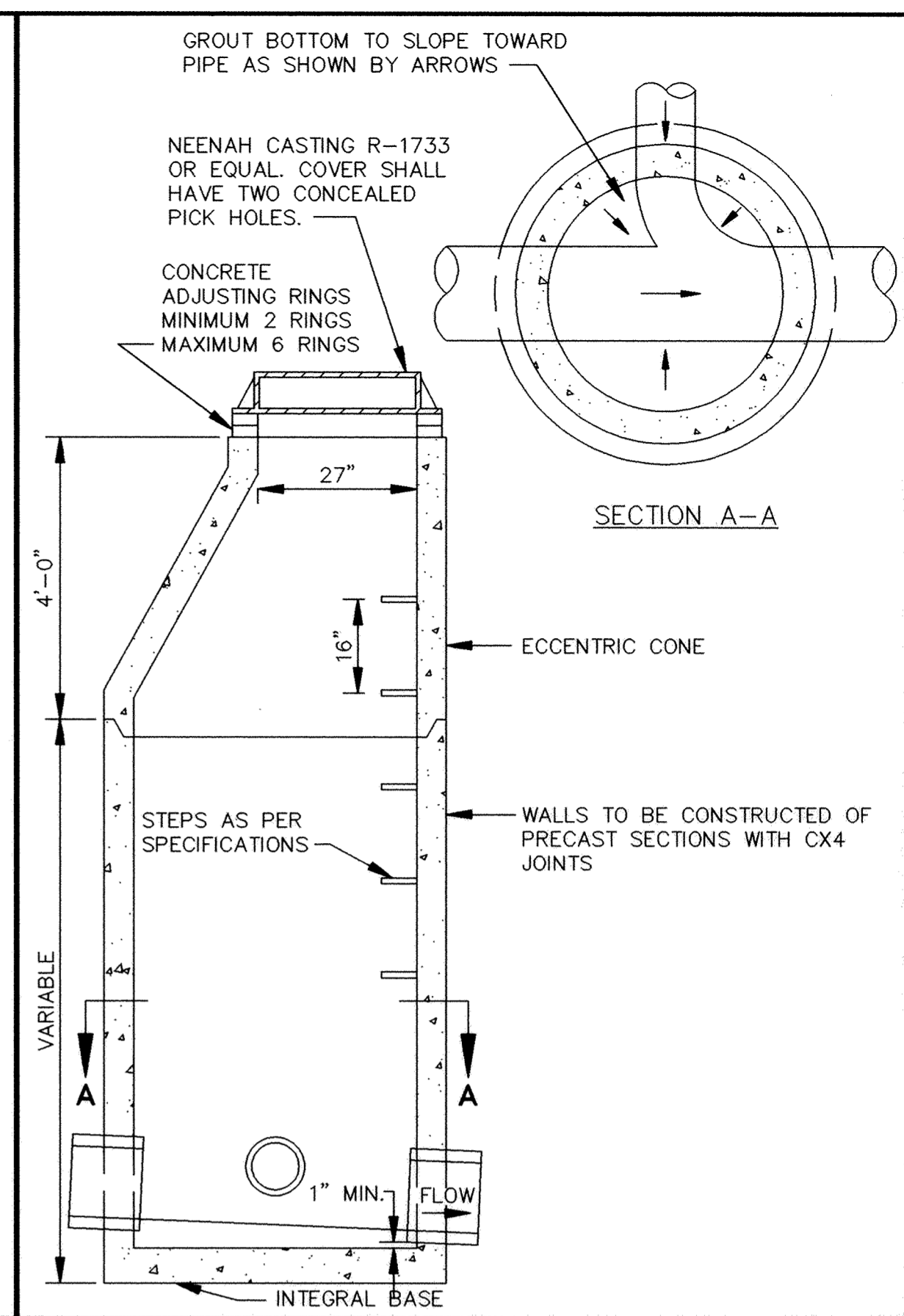
OUTSIDE DROP MANHOLE



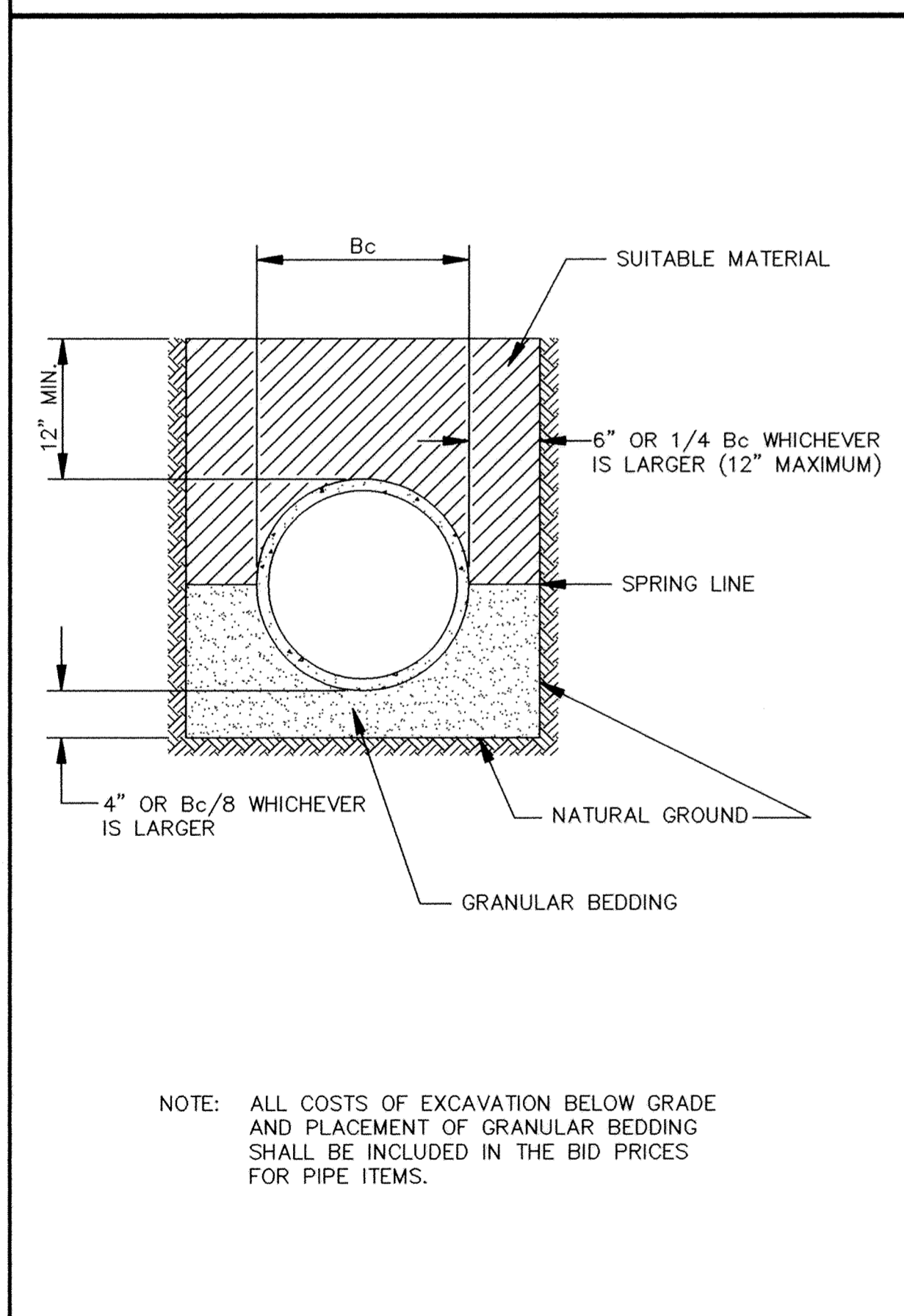
INSIDE DROP MANHOLE



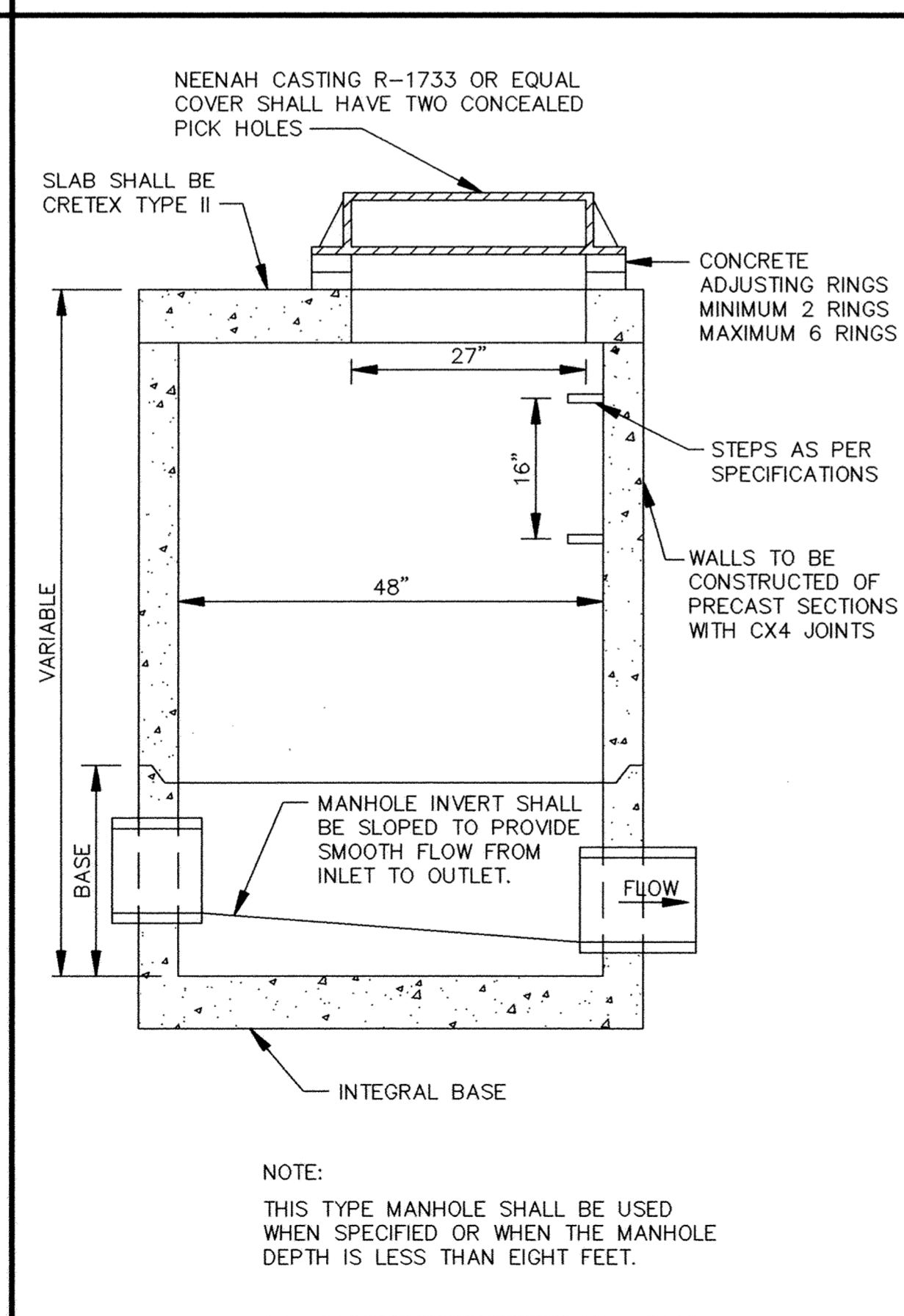
INSIDE DROP MANHOLE (TWO FEET OR LESS)



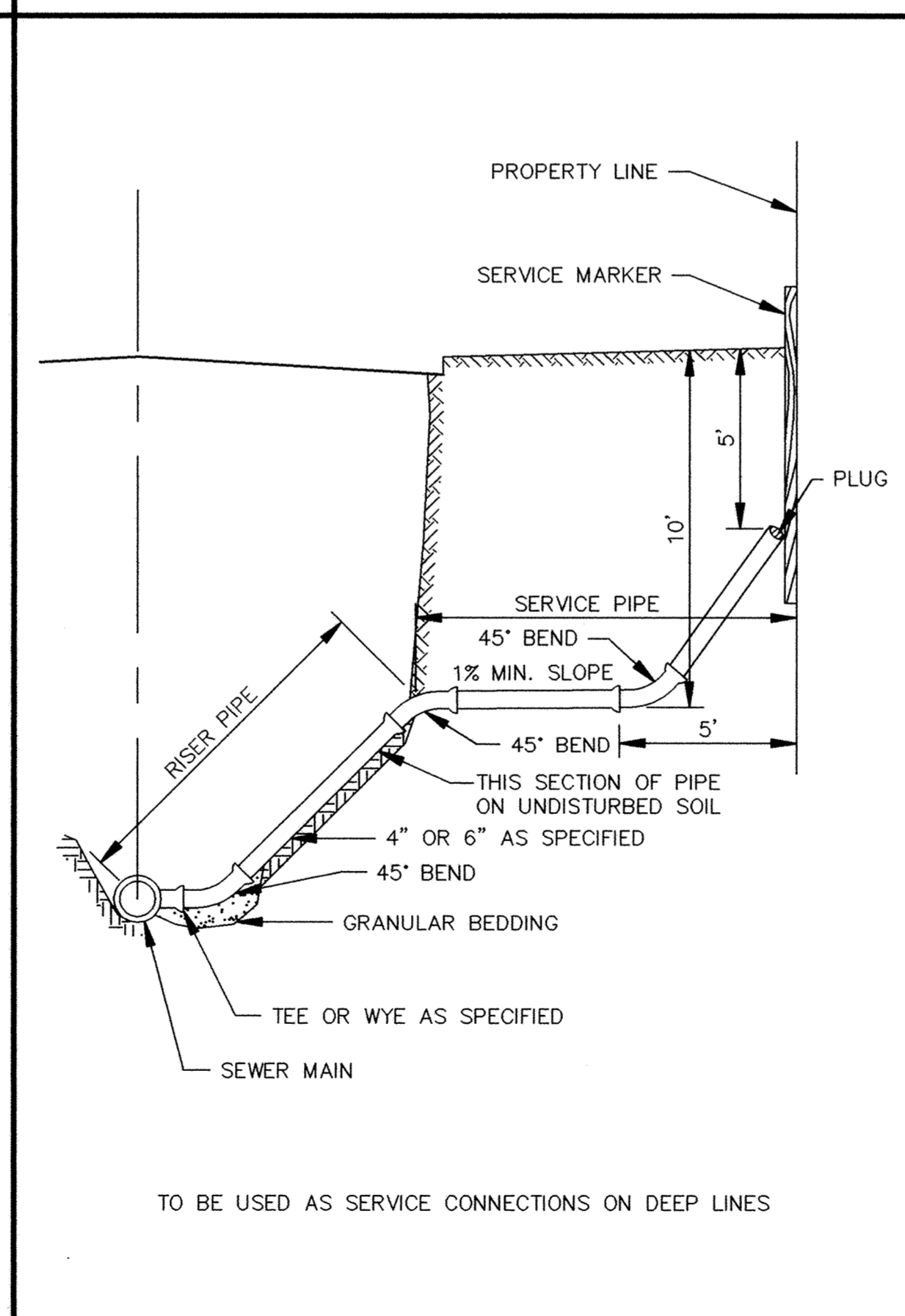
STANDARD MANHOLE



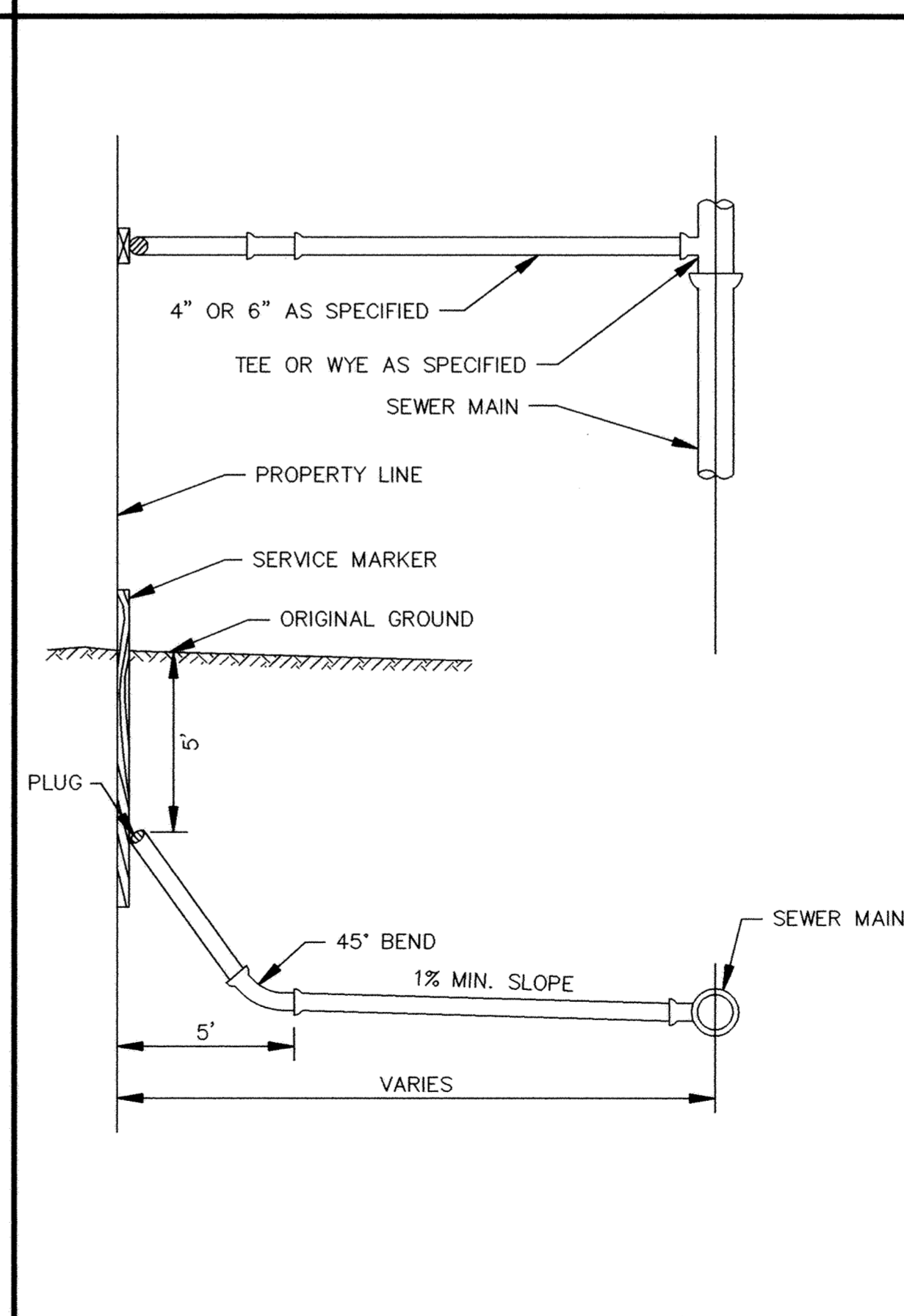
CLASS B PIPE BEDDING



SLAB TOP MANHOLE



SERVICE RISER SECTION



TYPICAL HOUSE SERVICE

RECORD PLAN NOV,1993

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

*Kevin J. Means*  
DATE 4/25/93 REG. NO. 15316

**MS&A** CONSULTING ENGINEERS  
Maier Stewart & Associates Inc.

1959 SLOAN PLACE (612) 774-6021 ST. PAUL, MINNESOTA 55117  
9800 SHELARD PARKWAY (612) 546-0432 MINNEAPOLIS, MINNESOTA 55441

DATE	DESCRIPTION	DESIGNED	CHKD
		SJM	TJM
			CLS

GRAPHIC SCALE  
0 HORIZ.  
0 VERT.

CITY OF ELK RIVER  
HERITAGE LANDING  
SANITARY SEWER DETAILS

DATE APRIL 1993 SHEET 25 OF 28 SHEETS PROJECT NO. 230-159