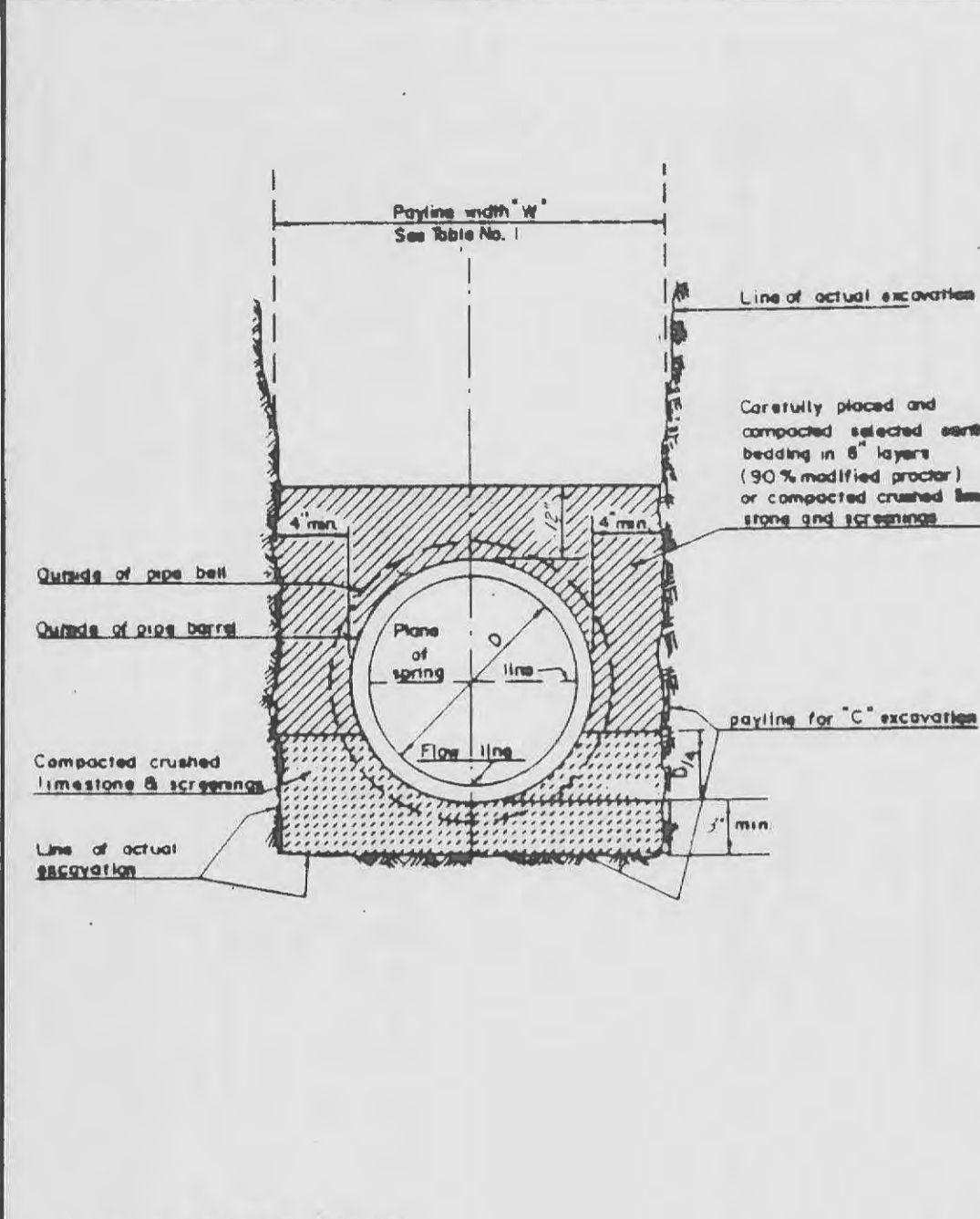
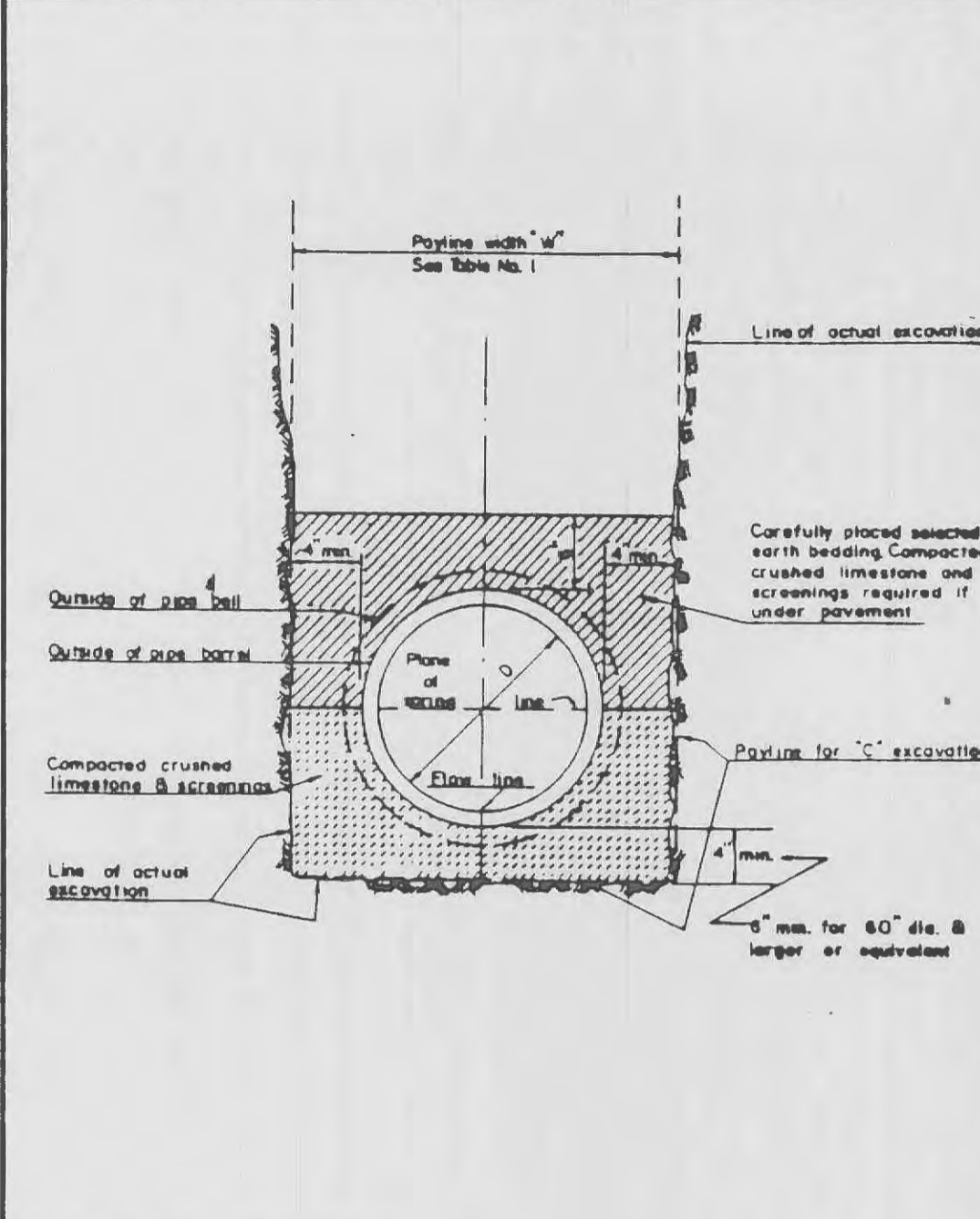


Table with columns for ROUND PIPE and HORIZONTAL ELLIPTICAL PIPE. Rows list Inside Diameter of Pipe (inches) and Pay Volume (cu ft per ft). Includes dimensions for trench width and concrete encasement.

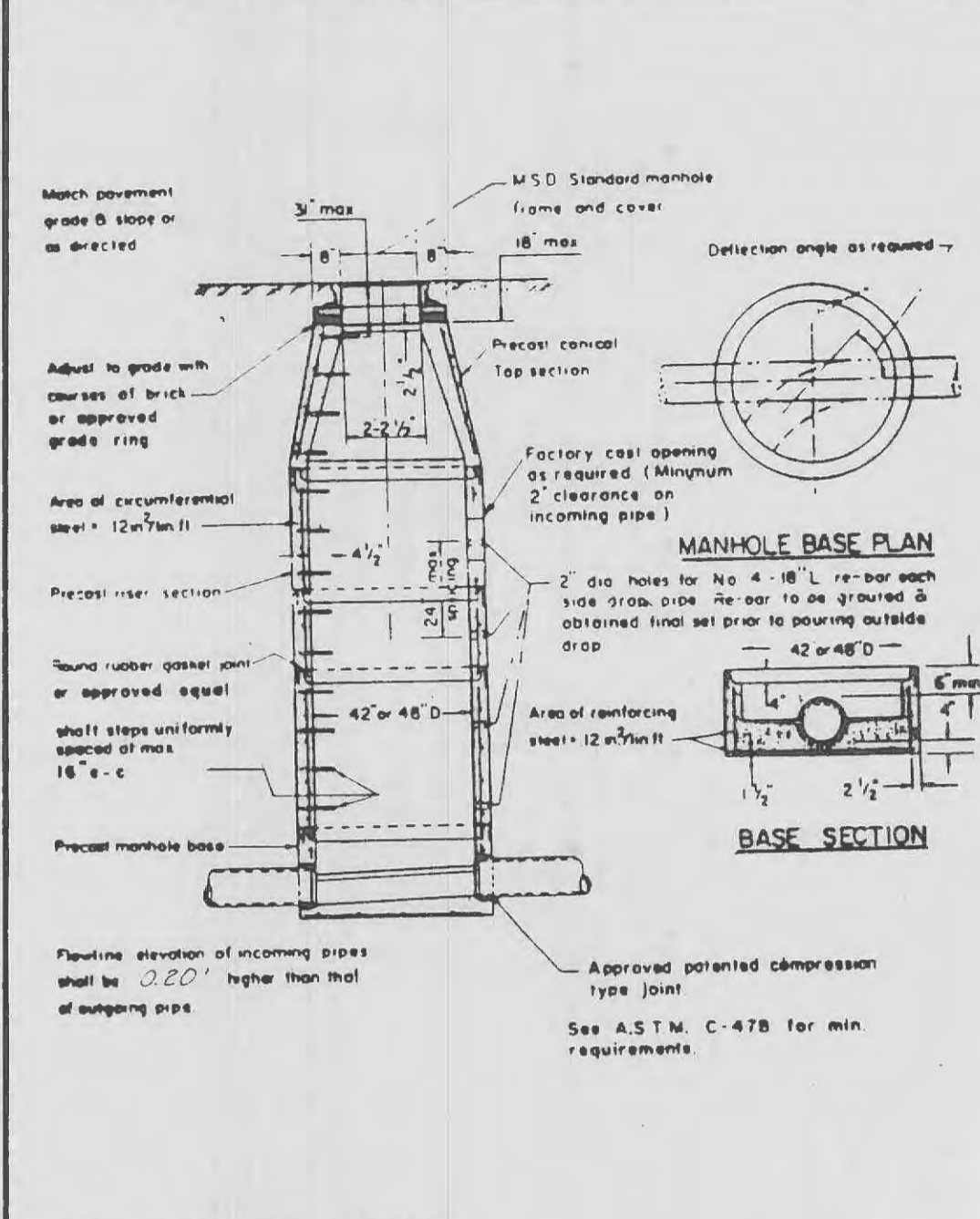
TABLE NO. 1 PAYLINE WIDTHS OF TRENCH AND PAY QUANTITIES OF CONCRETE



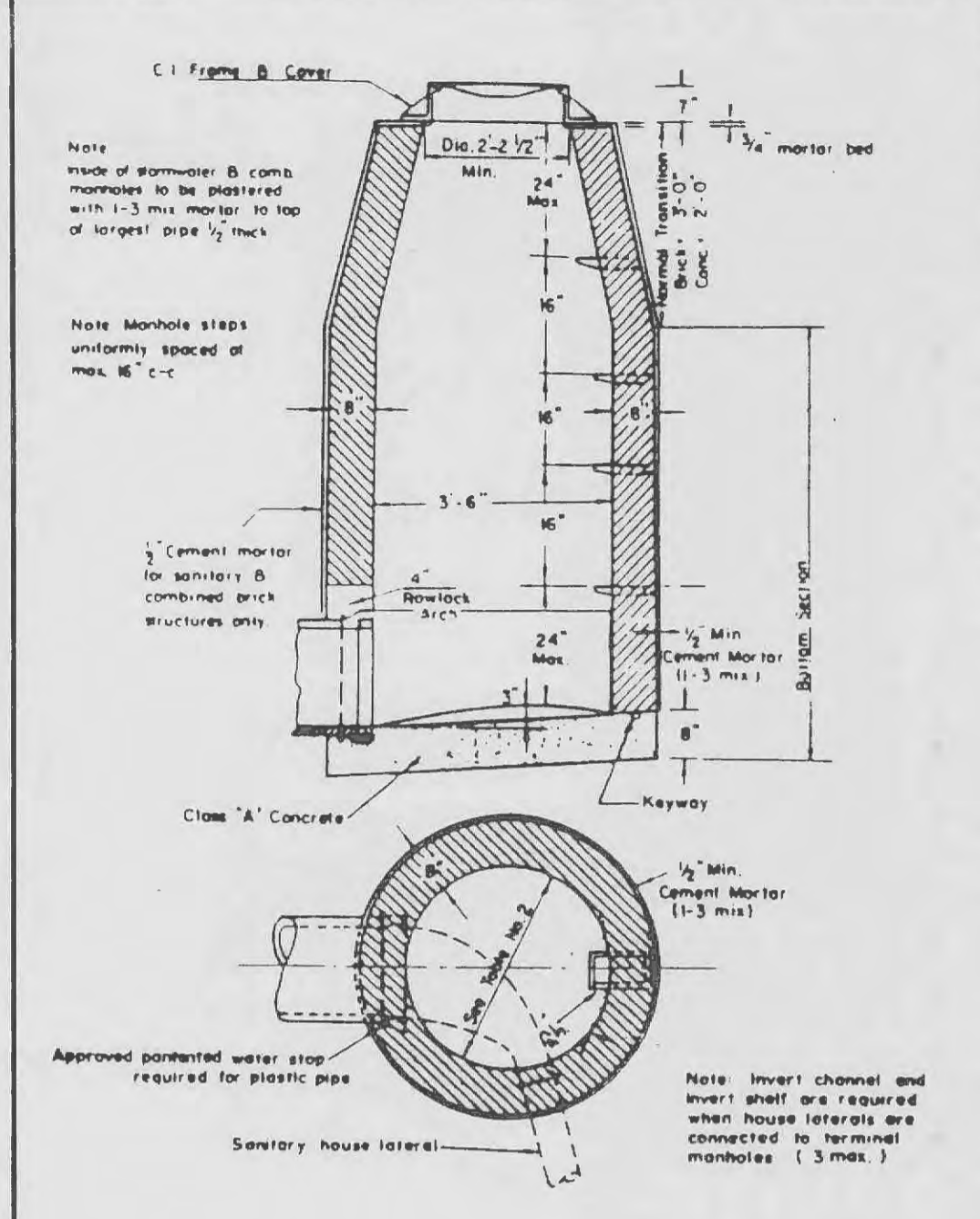
PIPE BEDDING CLASS "C" (FOR ALL PIPE EXCEPT REINFORCED CONCRETE PIPE) DETAIL 2



PIPE BEDDING CLASS "C" (MODIFIED FOR REINFORCED CONCRETE PIPE) DETAIL 3

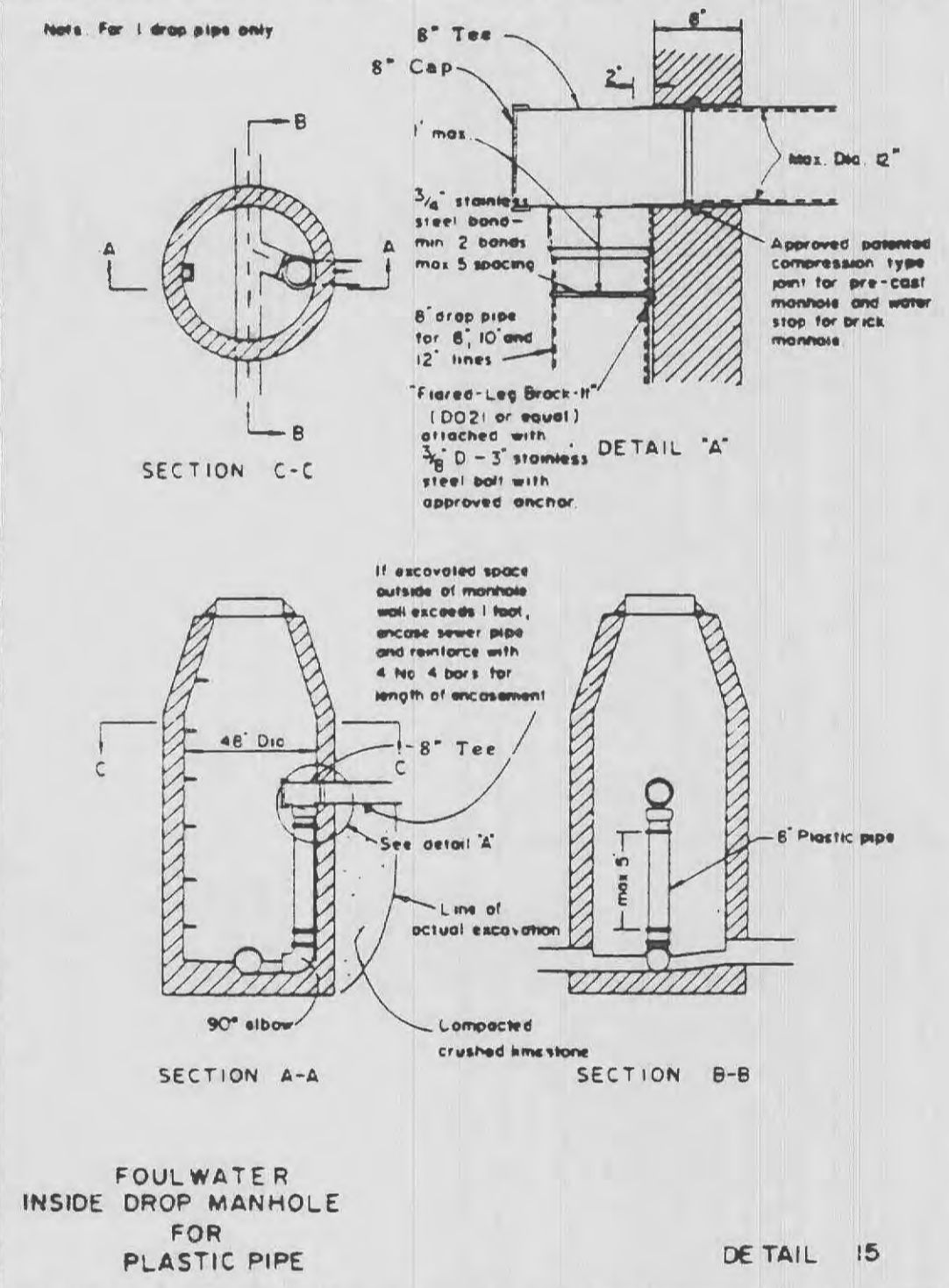


PRE-CAST CONCRETE MANHOLE FOR SEWERS 6" THROUGH 12" DETAIL 18

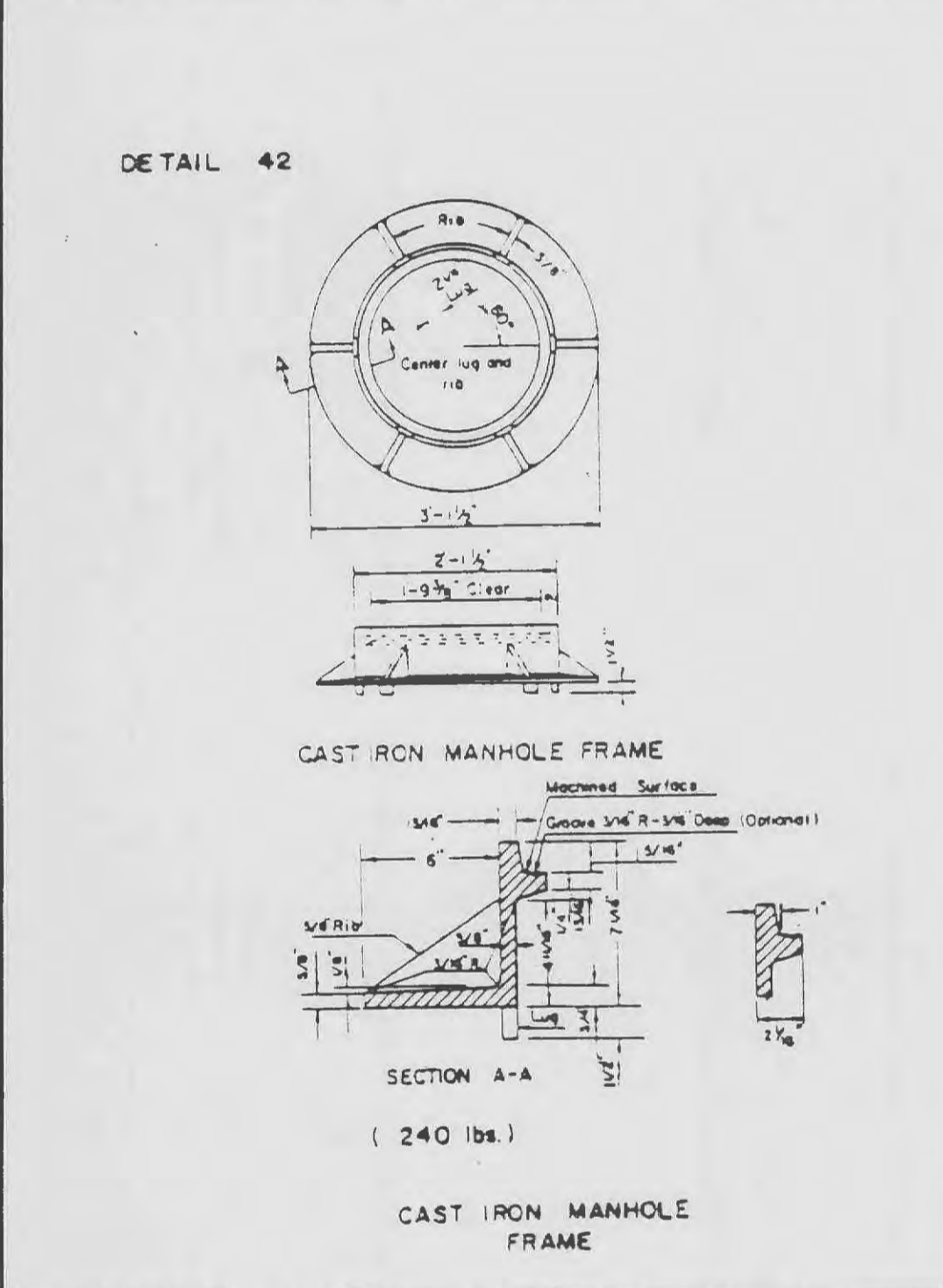


TERMINAL MANHOLE DETAIL 6

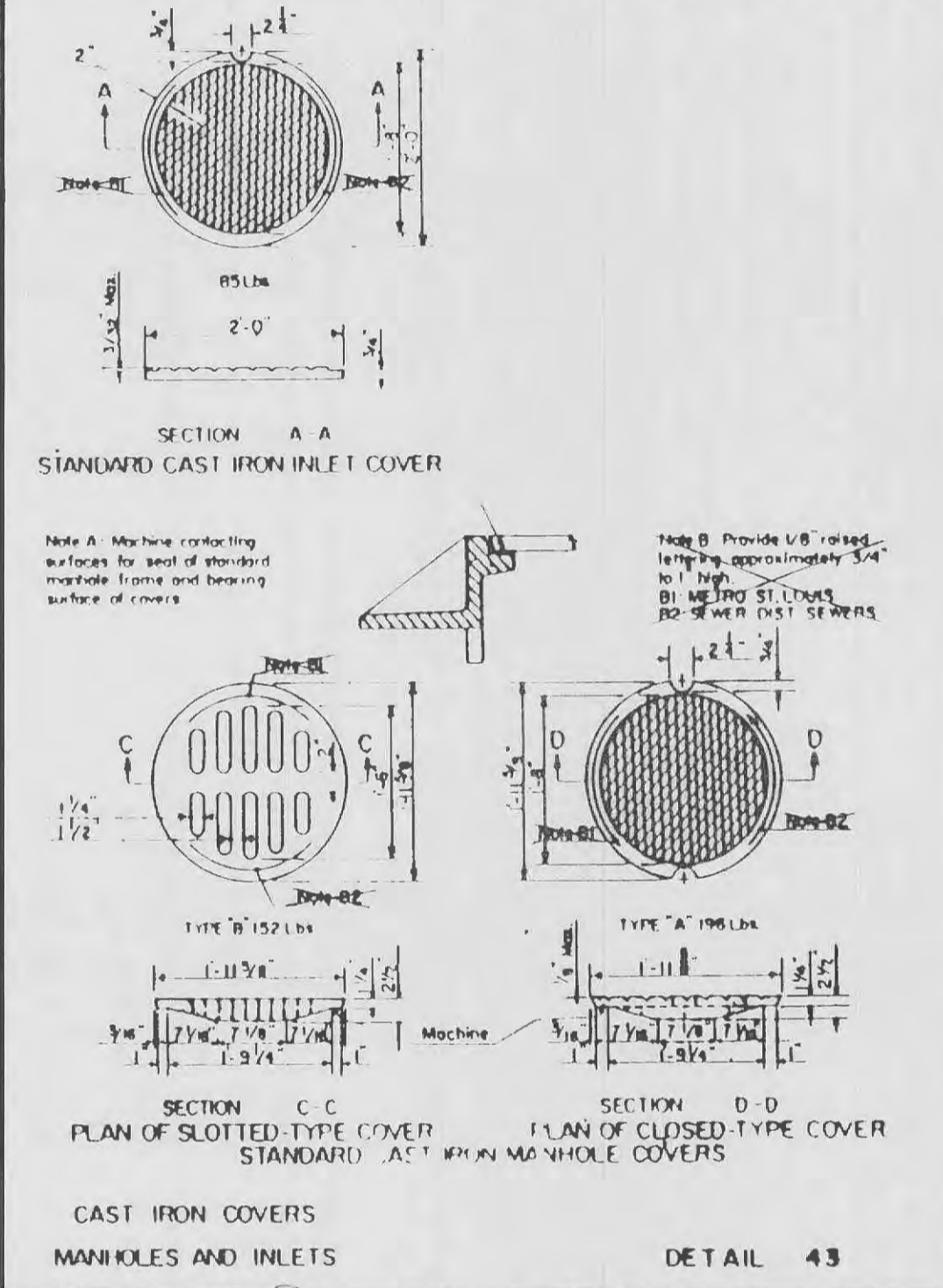
TABLE NO. 2 STANDARD MANHOLE DIMENSIONS. Table with columns for Section of Manhole (Top, Transition, Bottom Section) and Dimension (Upper, Lower, Dia. Pipe, Dia. Pipe, Square).



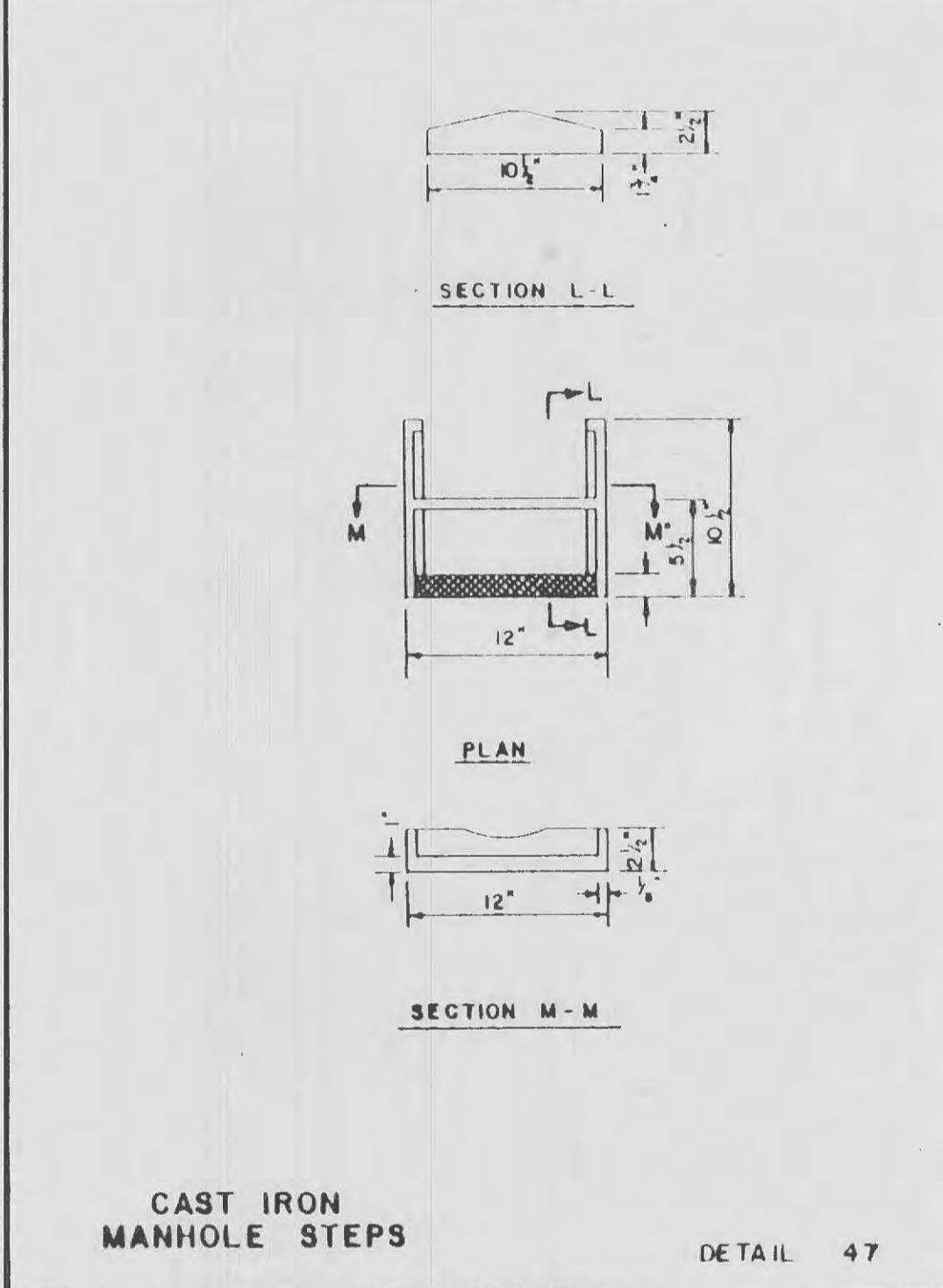
FOUL WATER INSIDE DROP MANHOLE FOR PLASTIC PIPE DETAIL 15



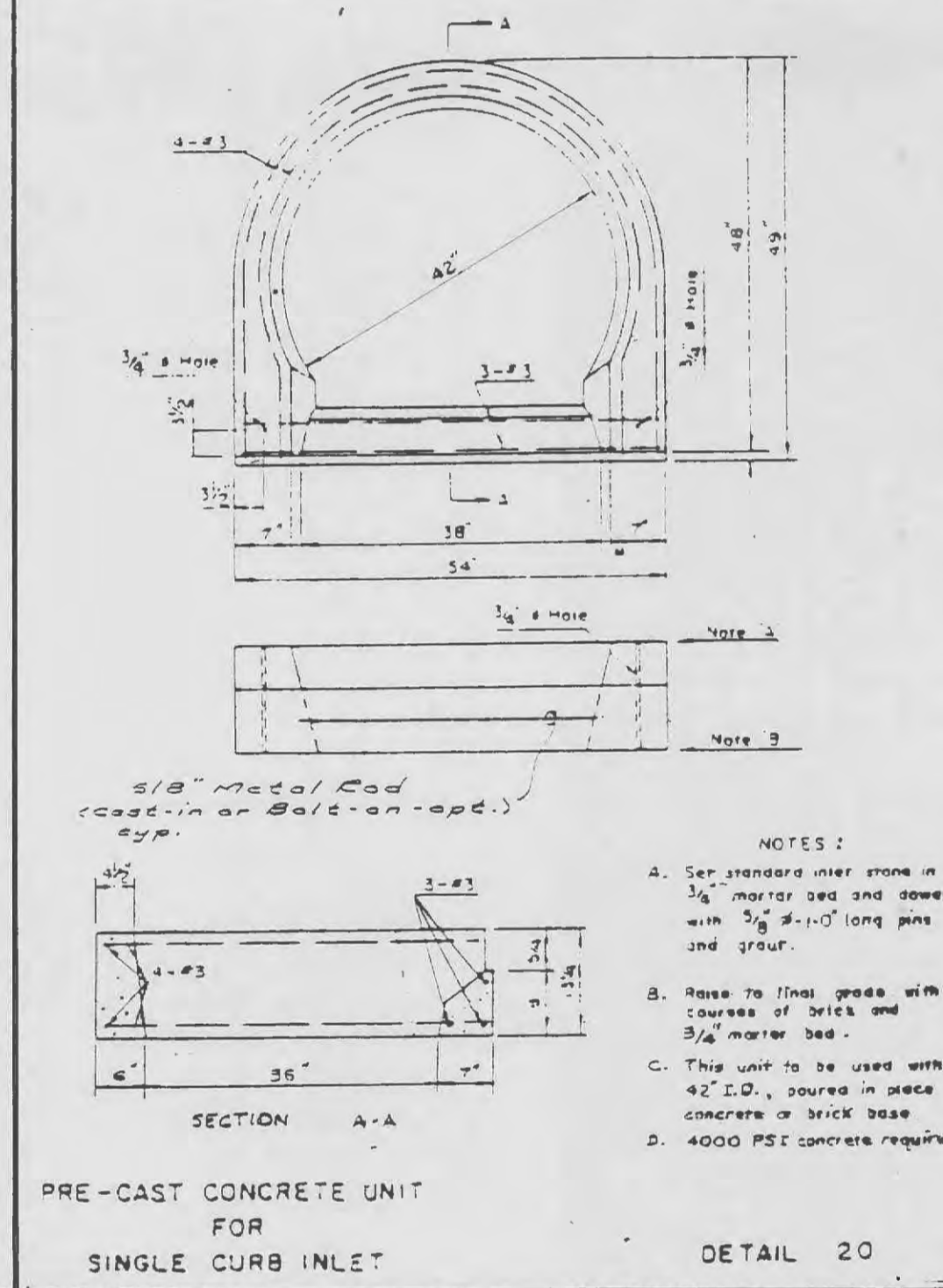
CAST IRON MANHOLE FRAME DETAIL 42



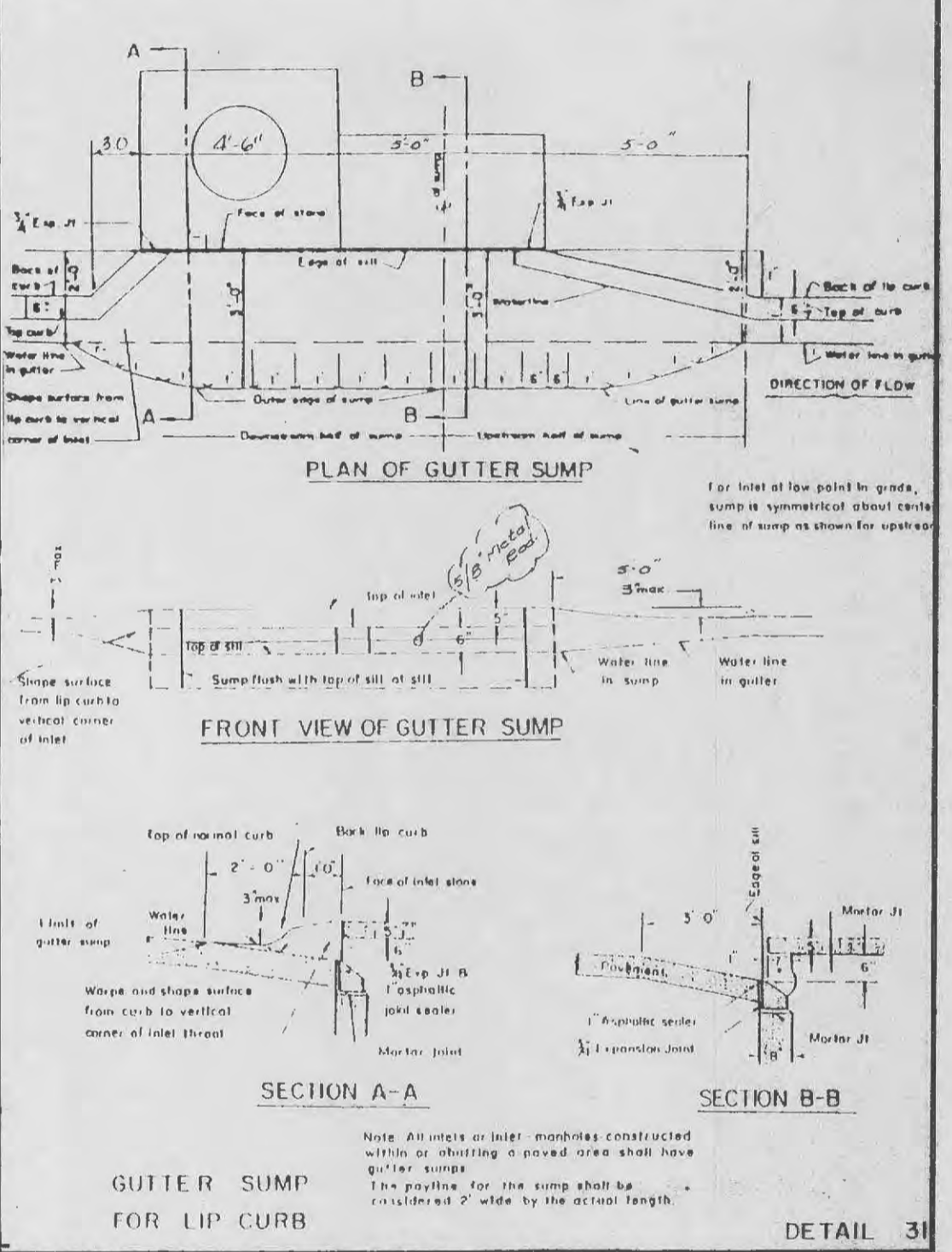
CAST IRON COVERS MANHOLE AND INLETS DETAIL 43



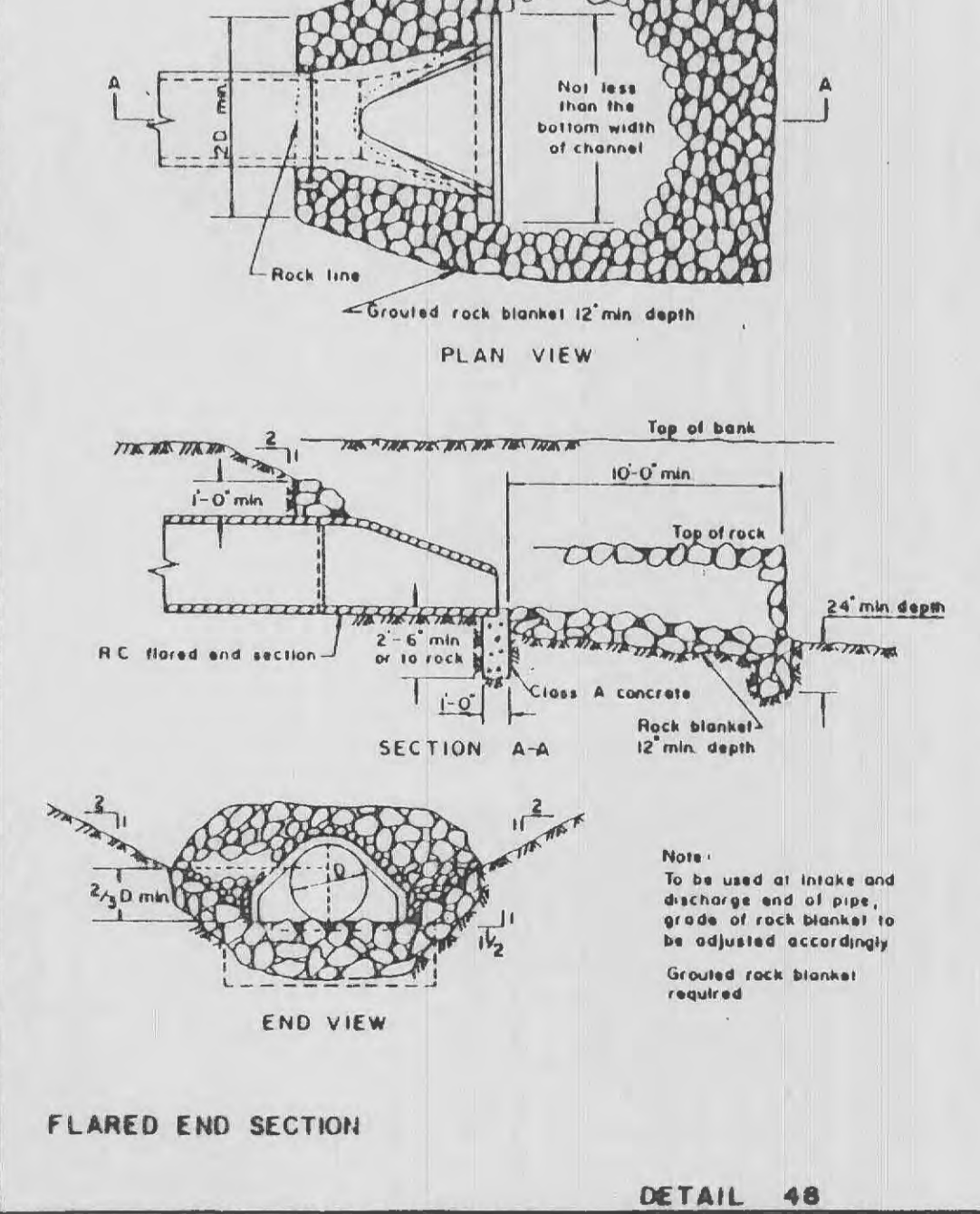
CAST IRON MANHOLE STEPS DETAIL 47



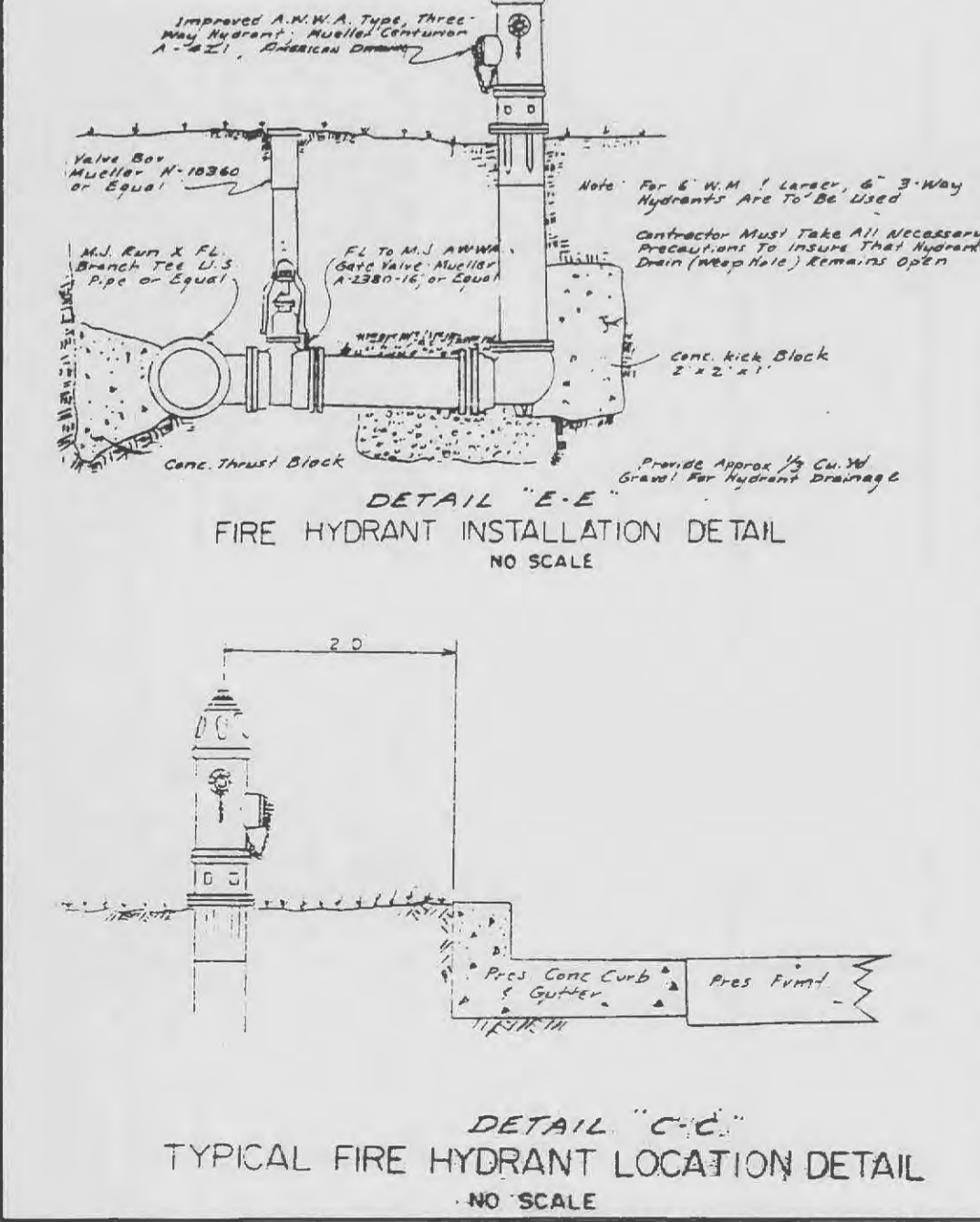
PRE-CAST CONCRETE UNIT FOR SINGLE CURB INLET DETAIL 20



GUTTER SUMP FOR LIP CURB DETAIL 31



FLARED END SECTION DETAIL 48

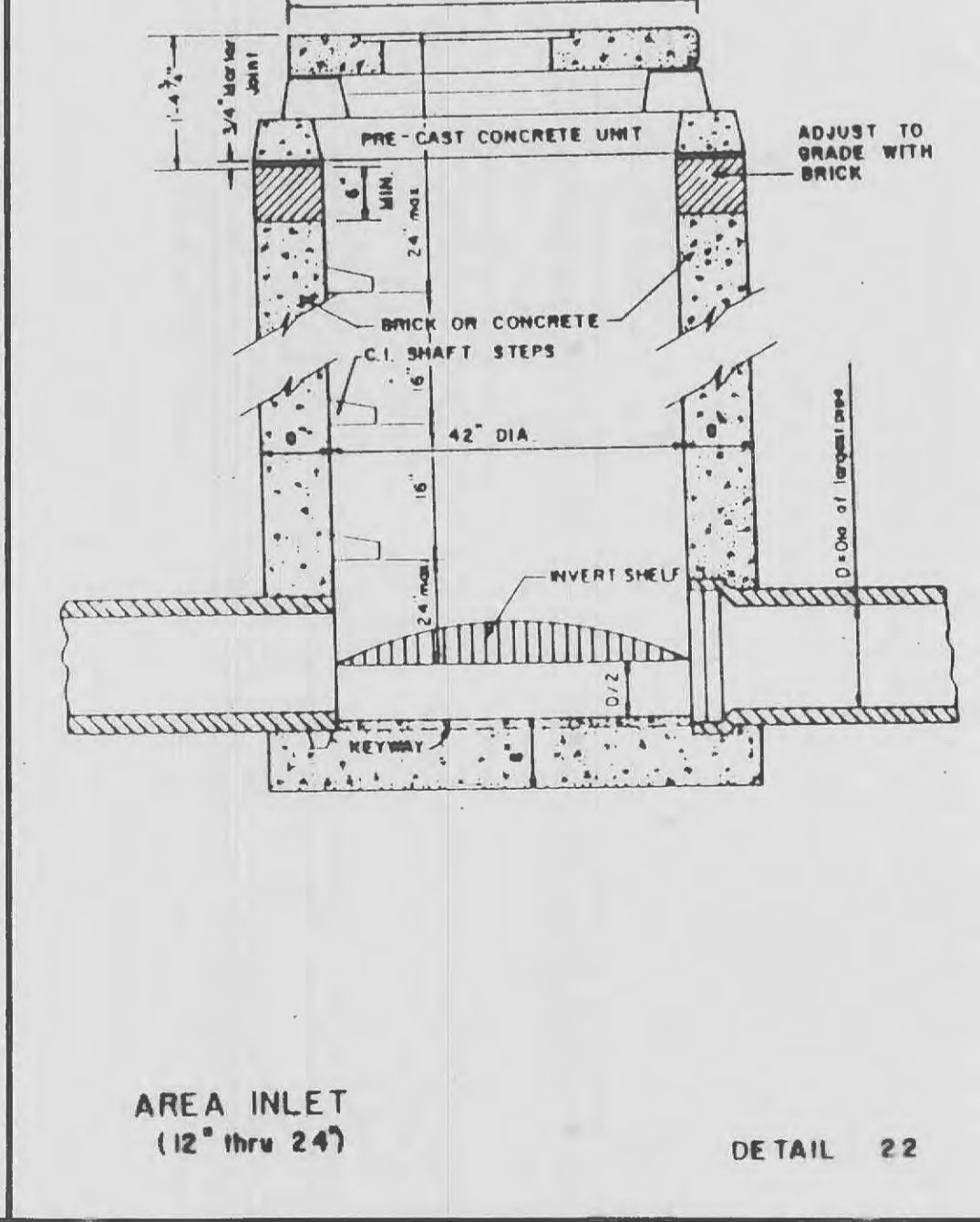


TYPICAL FIRE HYDRANT LOCATION DETAIL NO SCALE

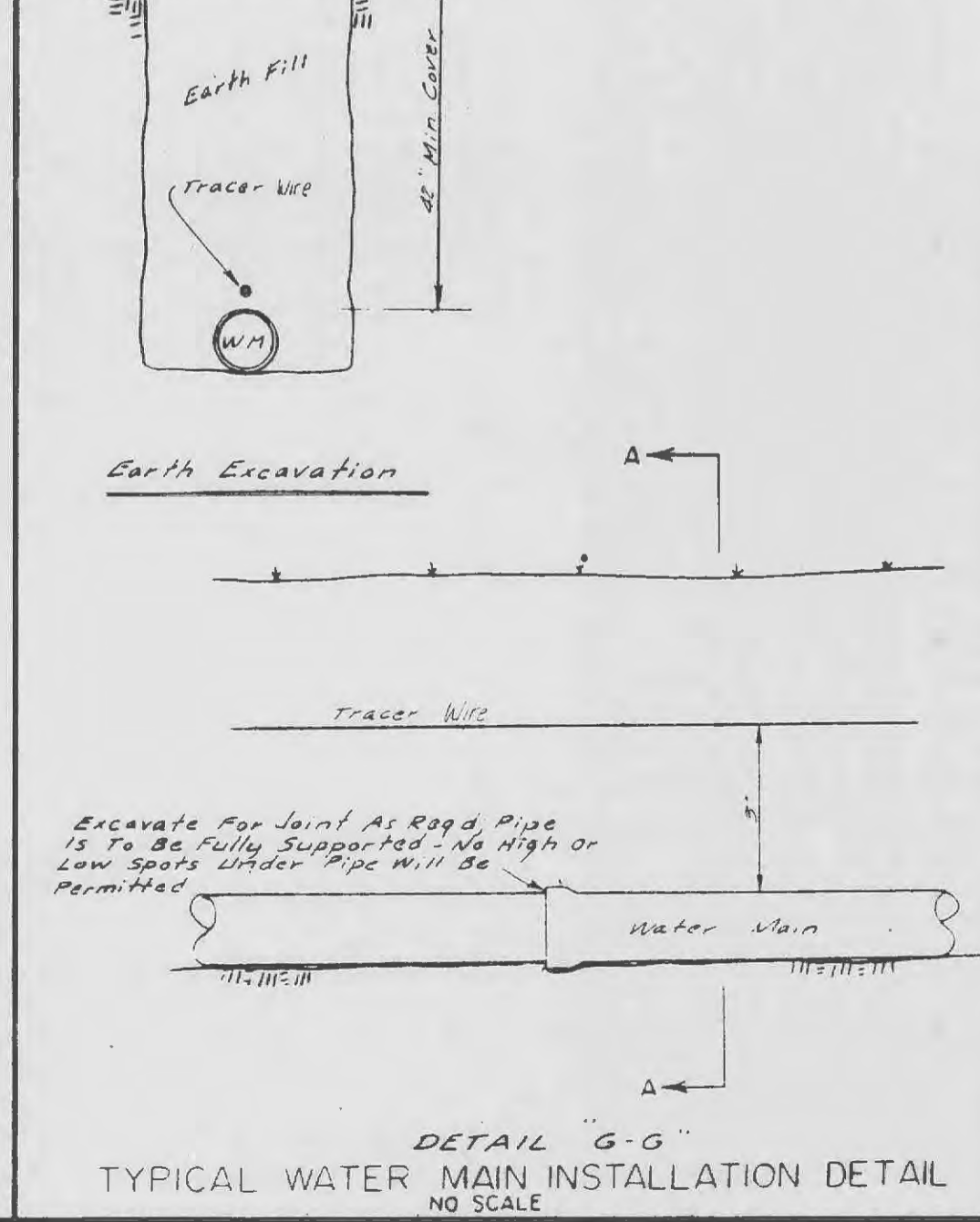
Diagram of GATE VALVE W/ THRUST BLOCK DETAIL and a THRUST BLOCK SCHEDULE table.

MAIN SIZE	MIN THRUST BLOCK BEARING DIMENSIONS TO BEAR AGAINST UNDISTURBED EARTH				
	45° BEND	22 1/2° BEND	TEE	VALVE	CROSS
4"	1' x 1'	1' x 1'	2' x 1'	2' x 1'	1' x 1'
6"	1.5' x 1'	1' x 1'	2' x 1'	2' x 1'	1' x 1'
8"	2' x 1'	1' x 1'	2' x 2.5'	2' x 2'	1' x 1.5'
10"	2' x 2.5'	1.5' x 2'	2' x 3.5'	2' x 3'	2' x 2'

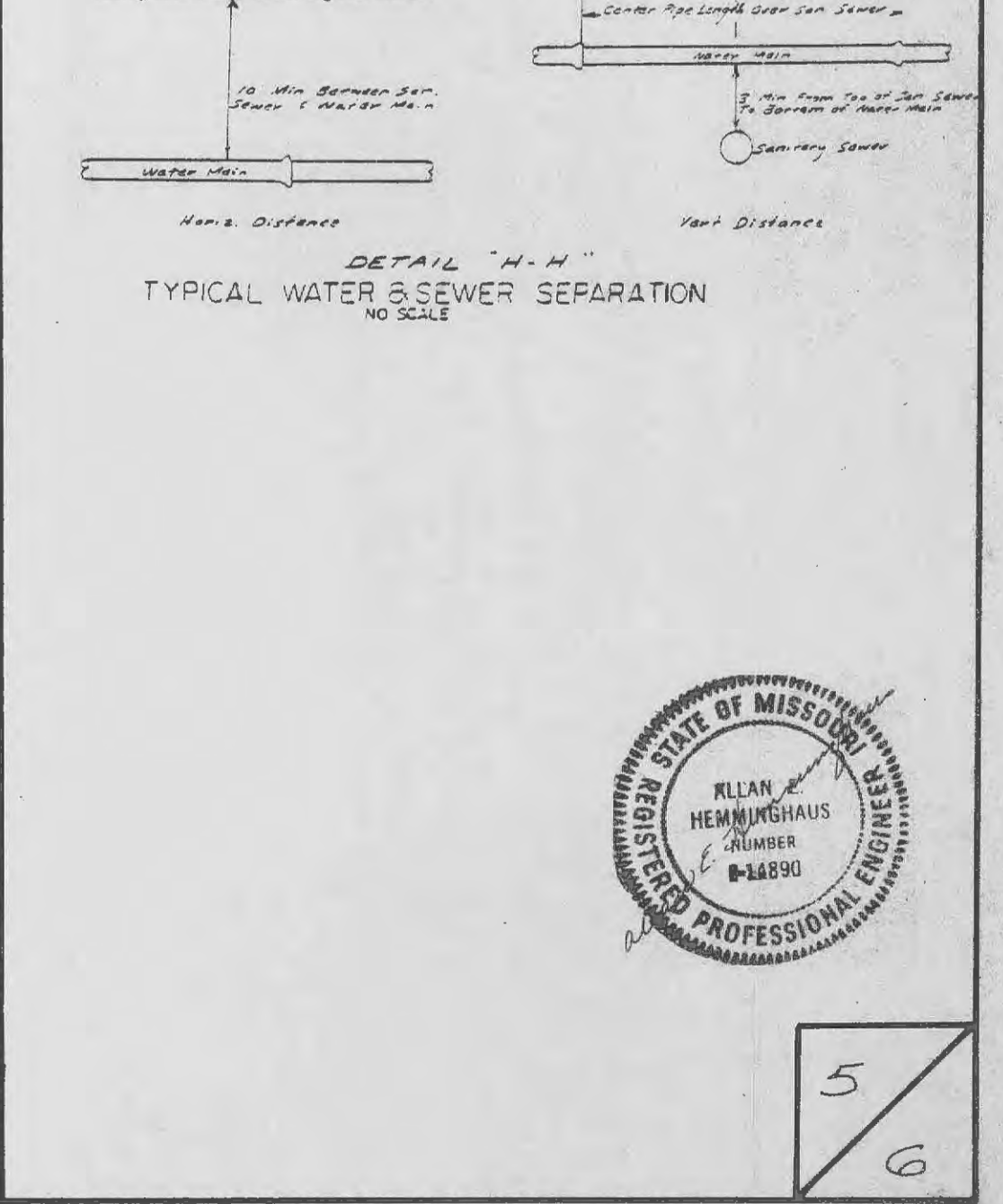
GATE VALVE W/ THRUST BLOCK DETAIL NO SCALE



AREA INLET (12" THRU 24") DETAIL 22



TYPICAL WATER MAIN INSTALLATION DETAIL NO SCALE



TYPICAL WATER & SEWER SEPARATION NO SCALE

