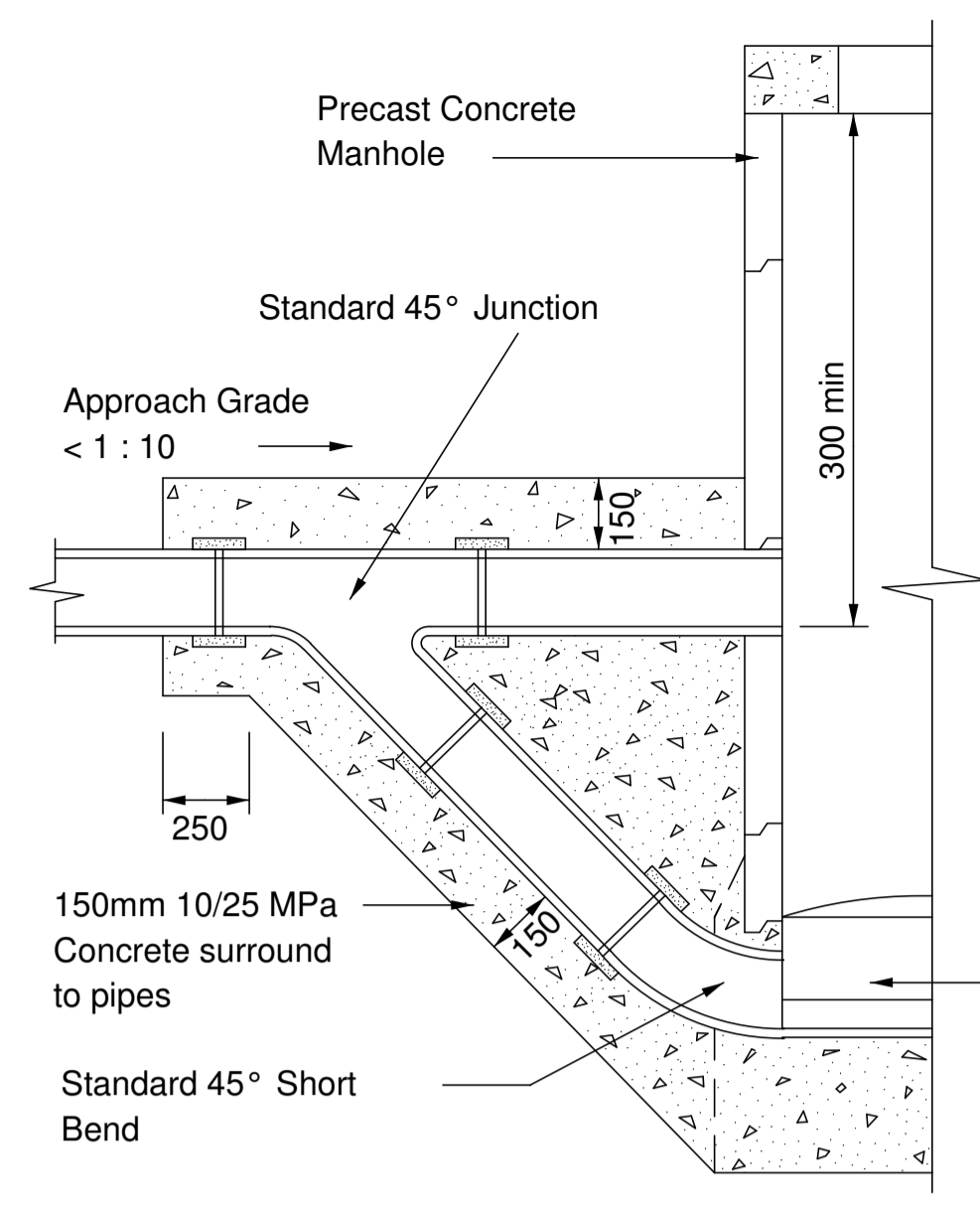
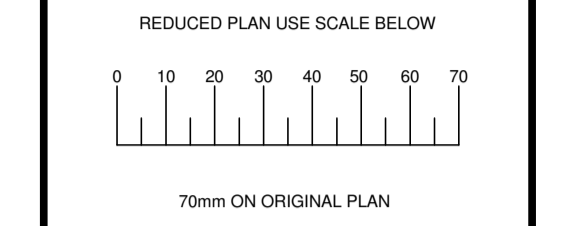
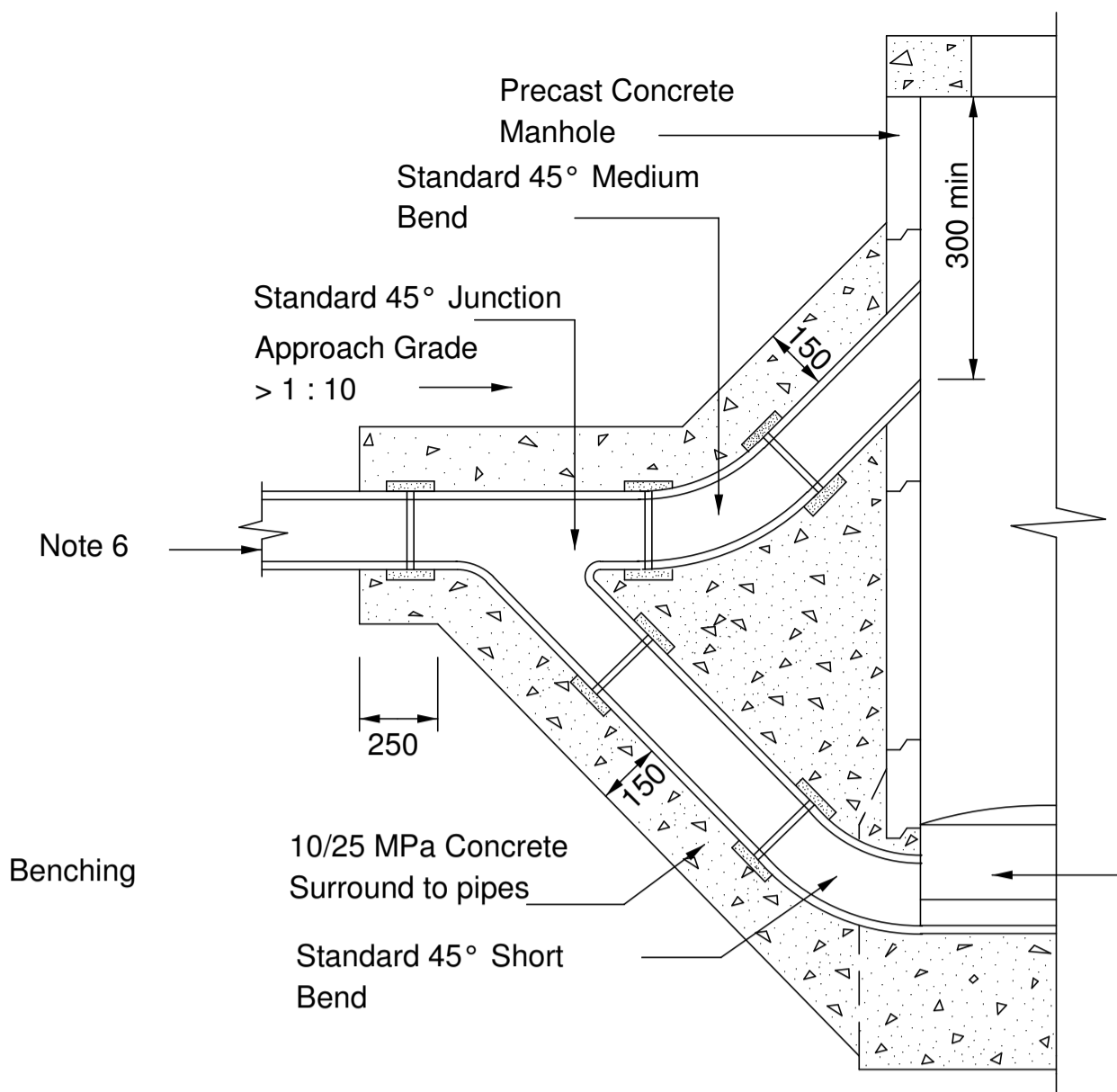




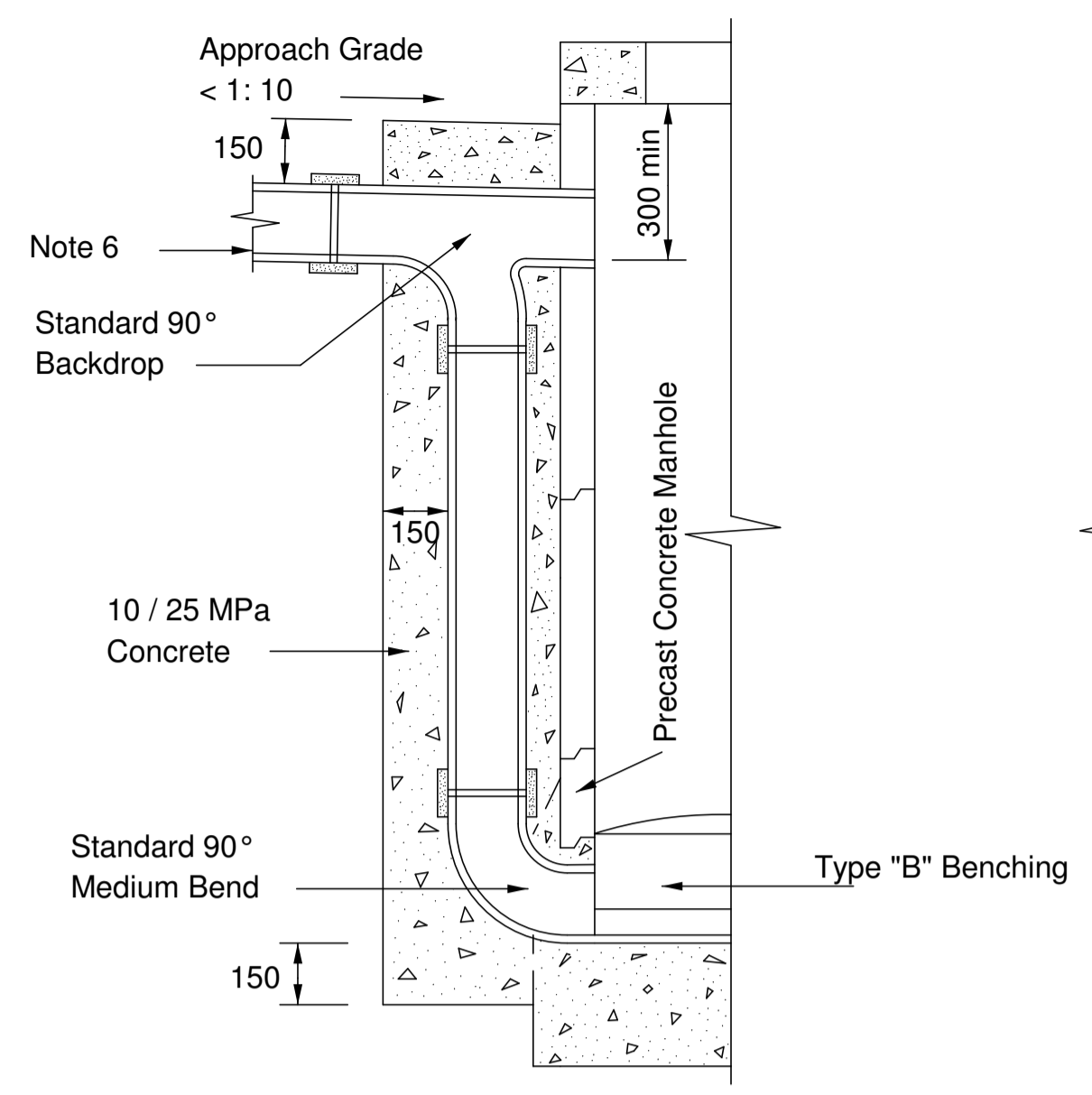
PLAN DESCRIPTION	DWG. NO.
CONTINUED FROM	
CROSS SECTIONS	
TYPICAL CROSS SECTION	
SURVEY LAYOUT	



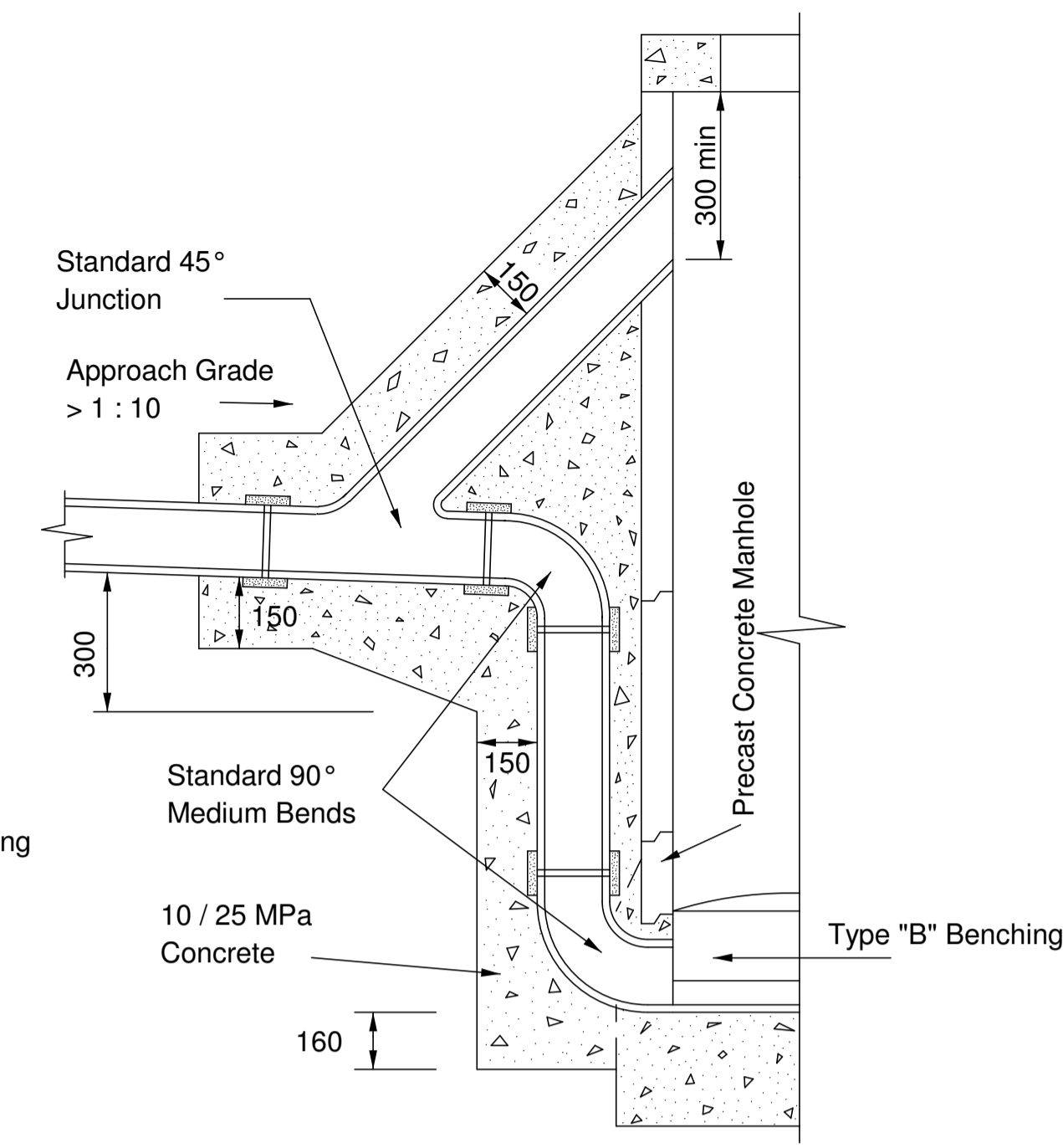
RAMP MANHOLE : TYPE A
FOR DROPS BETWEEN 500 AND 1000



RAMP MANHOLE : TYPE B
FOR DROPS BETWEEN 500 AND 1000

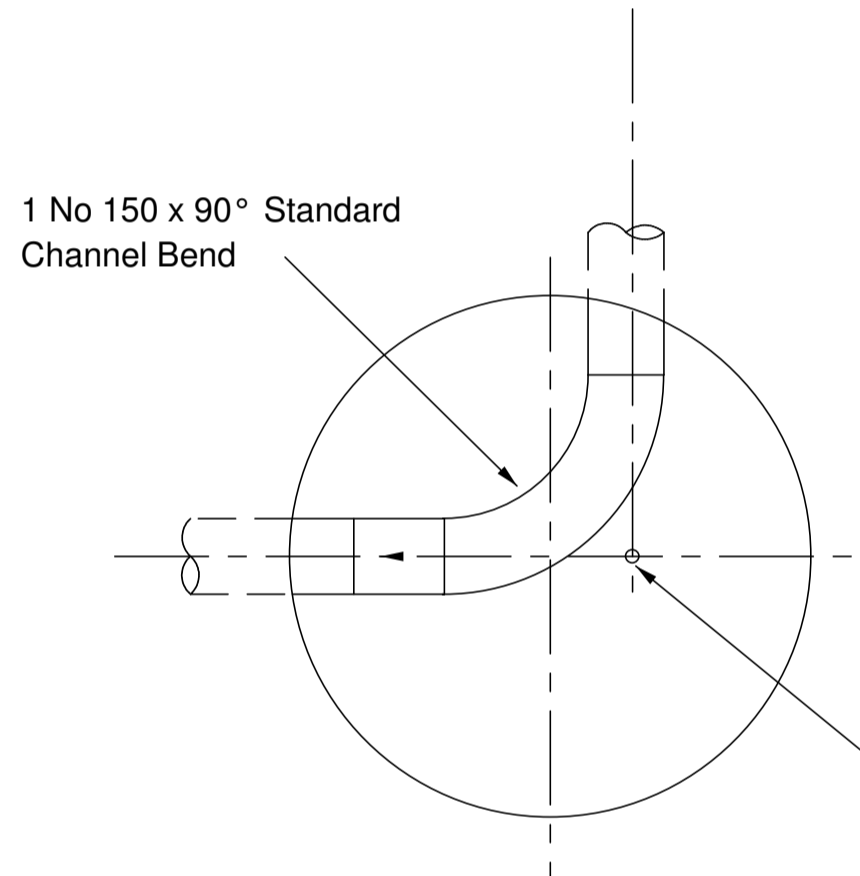


BACKDROP MANHOLE : TYPE A
FOR DROPS IN EXCESS OF 1000

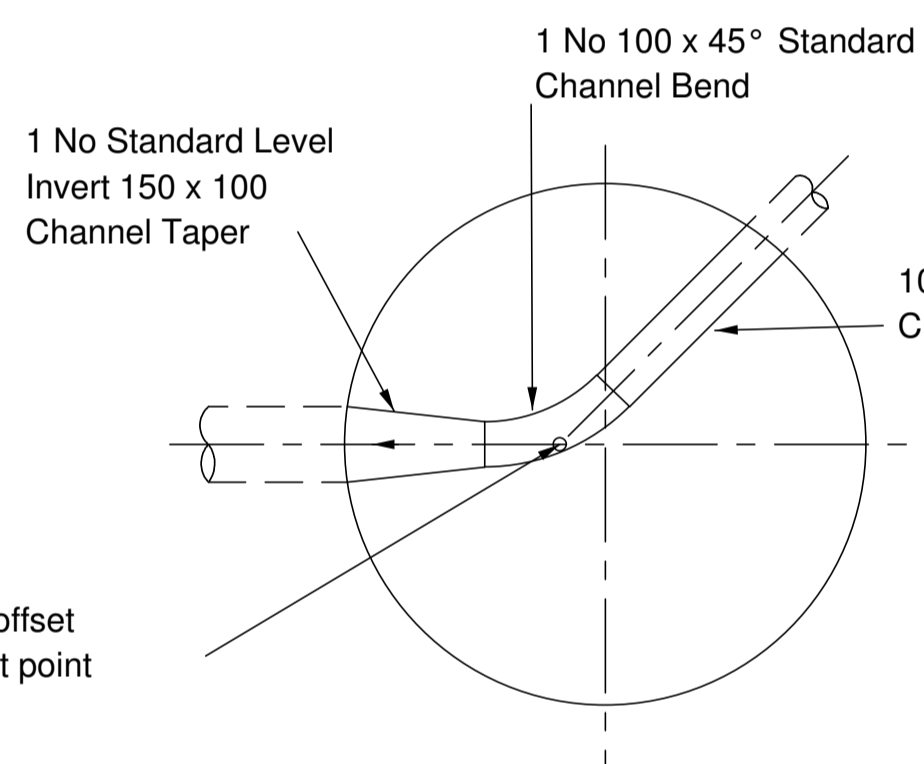


BACKDROP MANHOLE : TYPE B
FOR DROPS IN EXCESS OF 1000

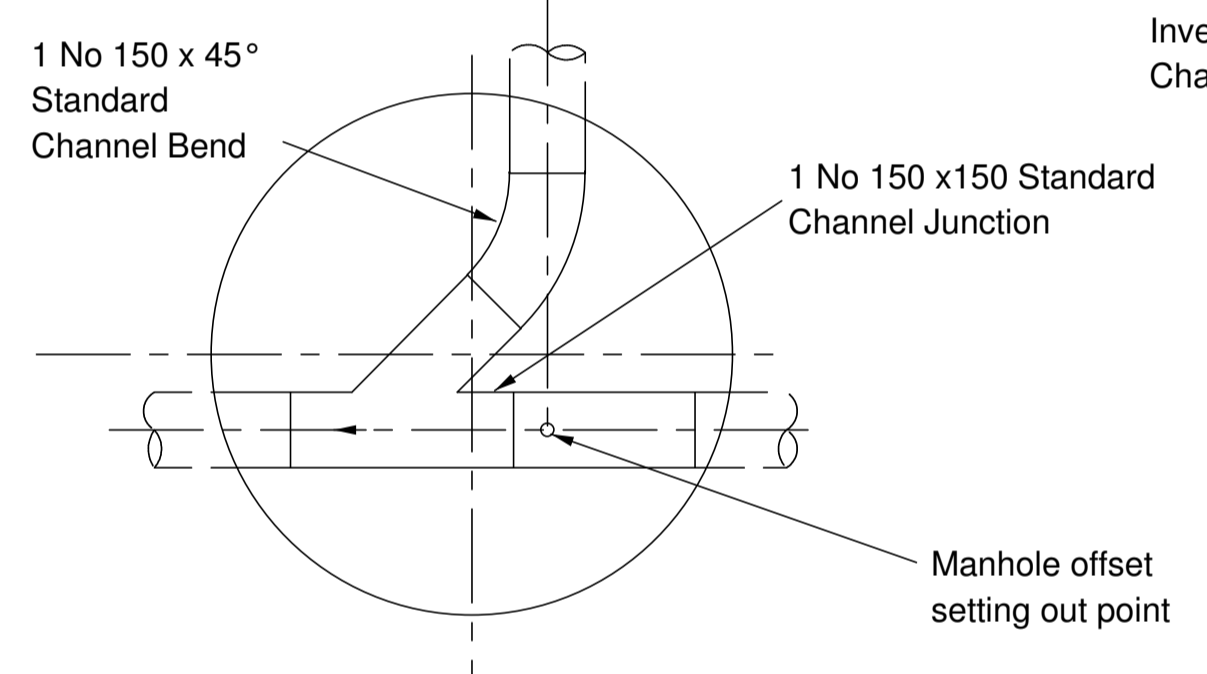
STANDARD FITTING FOR RAMP AND BACKDROP MANHOLES.
NOT TO SCALE



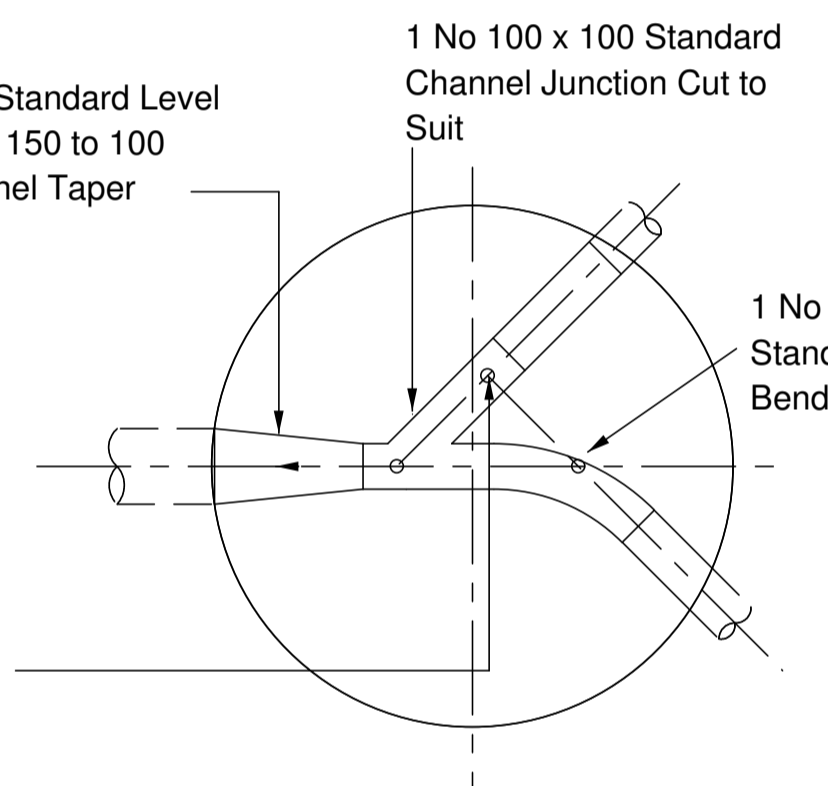
1000 Ø
(45° & 22.5° Bends are similar)
BENDS



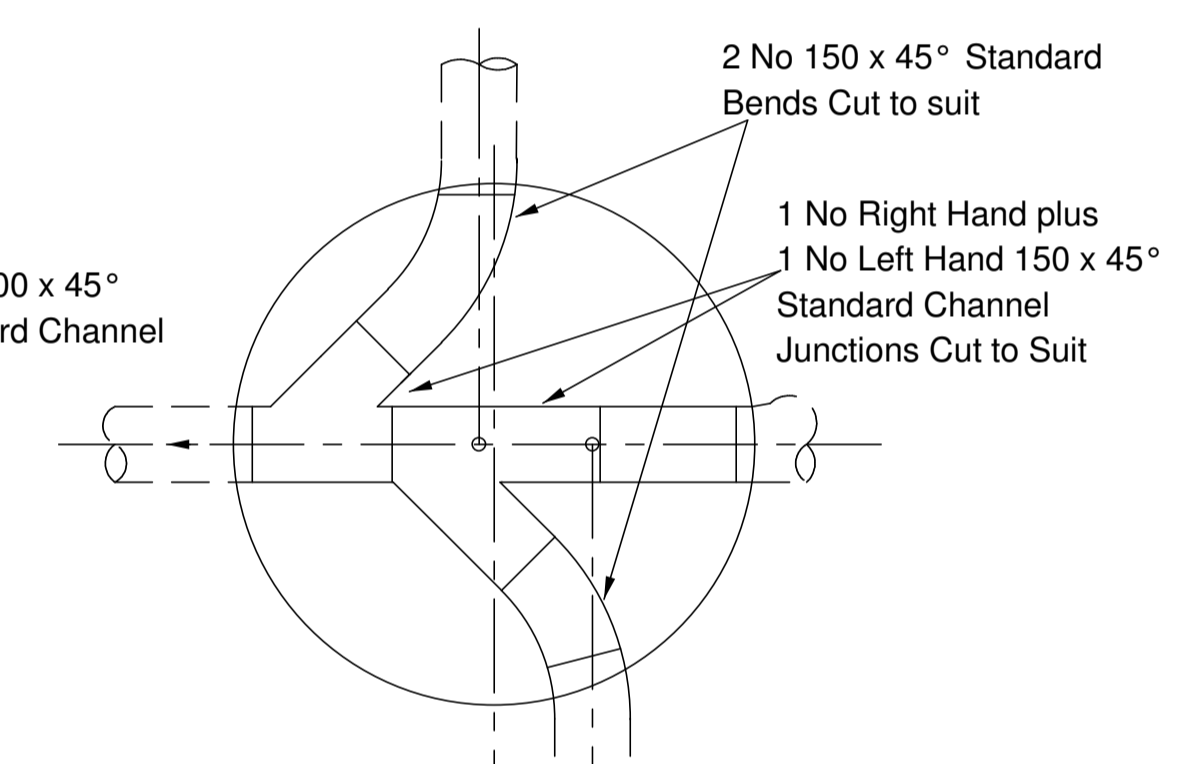
1000 Ø
(90° & 22.5° Bends are similar)
TERMINAL BENDS



1000 Ø
90° JUNCTION
(60° & 45° Junctions are similar)
SINGLE JUNCTION

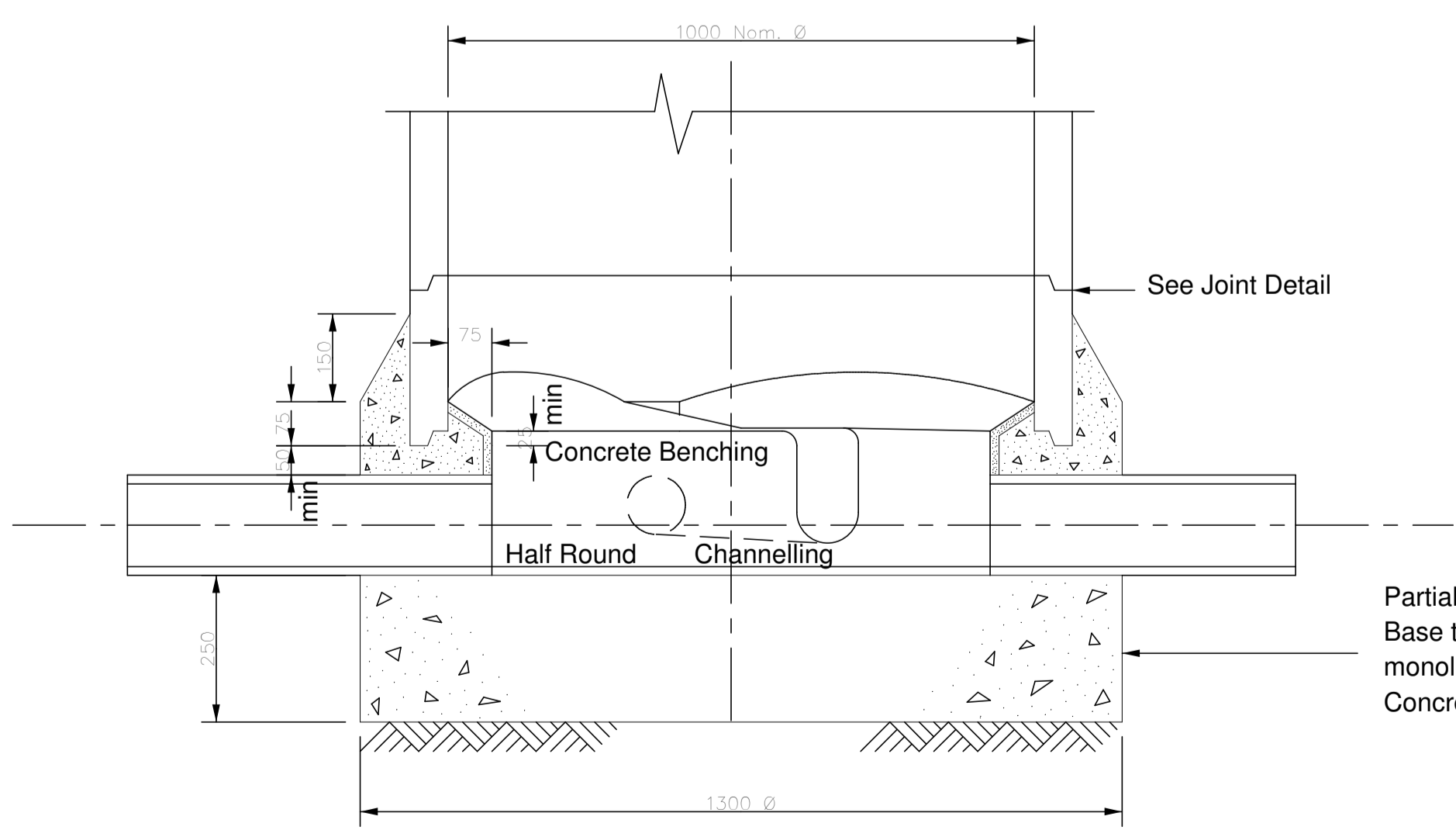


1000 Ø
TERMINAL JUNCTION

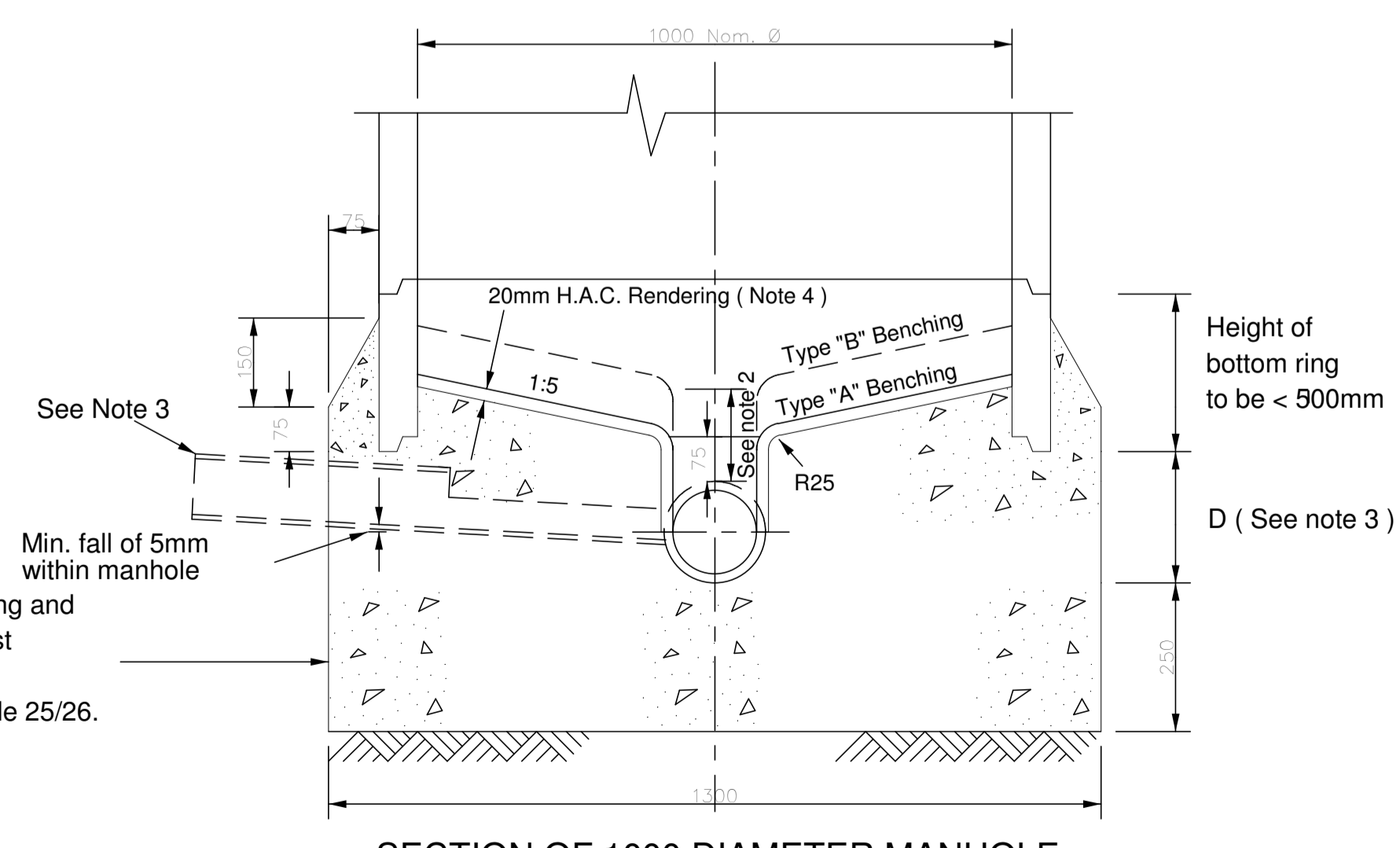


1000 Ø
DOUBLE JUNCTION

STANDARD CHANNELLING IN PRECAST CONCRETE MANHOLES
NOT TO SCALE



SECTION OF 1000 DIAMETER MANHOLE



SECTION OF 1000 DIAMETER MANHOLE

PRECAST CONCRETE SEWER MANHOLE

SCALE 1 : 10

- NOTE :
- This drawing to be read in conjunction with Drawing 38570.
 - Where approach grades into the manhole are 1 : 15 or steeper and associated with a change in direction in the manhole of 30° or more, the benching is to be brought up two pipe diameters above the pipe invert (Type B benching sewers)
 - Dimension D varies with the diameter of the sewer pipes and shall be to a point 50mm above the highest crown of the pipes.
 - Rendering for manhole benching shall consist of one part H.A.C. to two parts sand thoroughly mixed and applied to concrete surfaces while the latter are still green. Rendering shall be at least 20mm thick.

Revision	Date	Description

NOTE: No construction work to commence until land and servitude acquisitions have been completed.

Acquisitions completed

Class: _____ Engineer: _____ NORTH POINT

UNDERGROUND SERVICES CHECKED		
SERVICE	DATE	SIGNATURE
SEWERS		
WATER MAINS		
110V CABLES		
ELECTRIC CABLES		
S.A.R. CABLES		
E.S.C. CABLES		
OIL PIPE LINE		

NOTE: Only underground services affected by new construction work are shown. Care must be taken during excavation for road foundations, trenches etc. to avoid damage to underground services such as sewers, drains, cables, water mains and connections. Wherever possible these must be located before work proceeds.

Contract No	
Project Title	

STANDARD DRAWING

SEWER MANHOLES : RAMP, BACKDROP AND CHANNELLING DETAILS

Scale	DATE OF ISSUE
NOT TO SCALE	FEBRUARY 1990
Designed	Date
Checked	Drawn
Manager RD(N)	
Director : Roads	
R.A.Moore	Executive Director
Drawing No	Sheet
38574	of Sheets