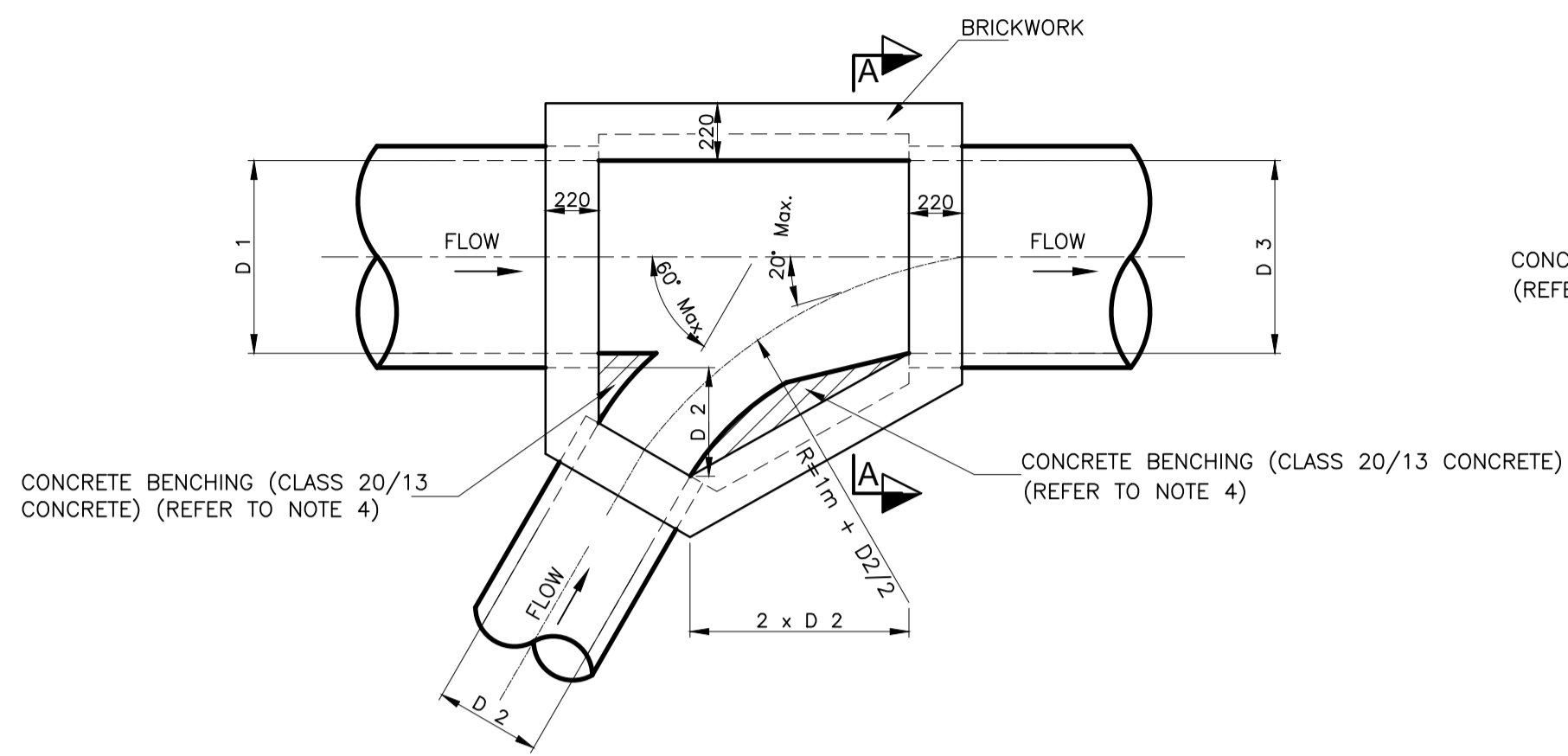
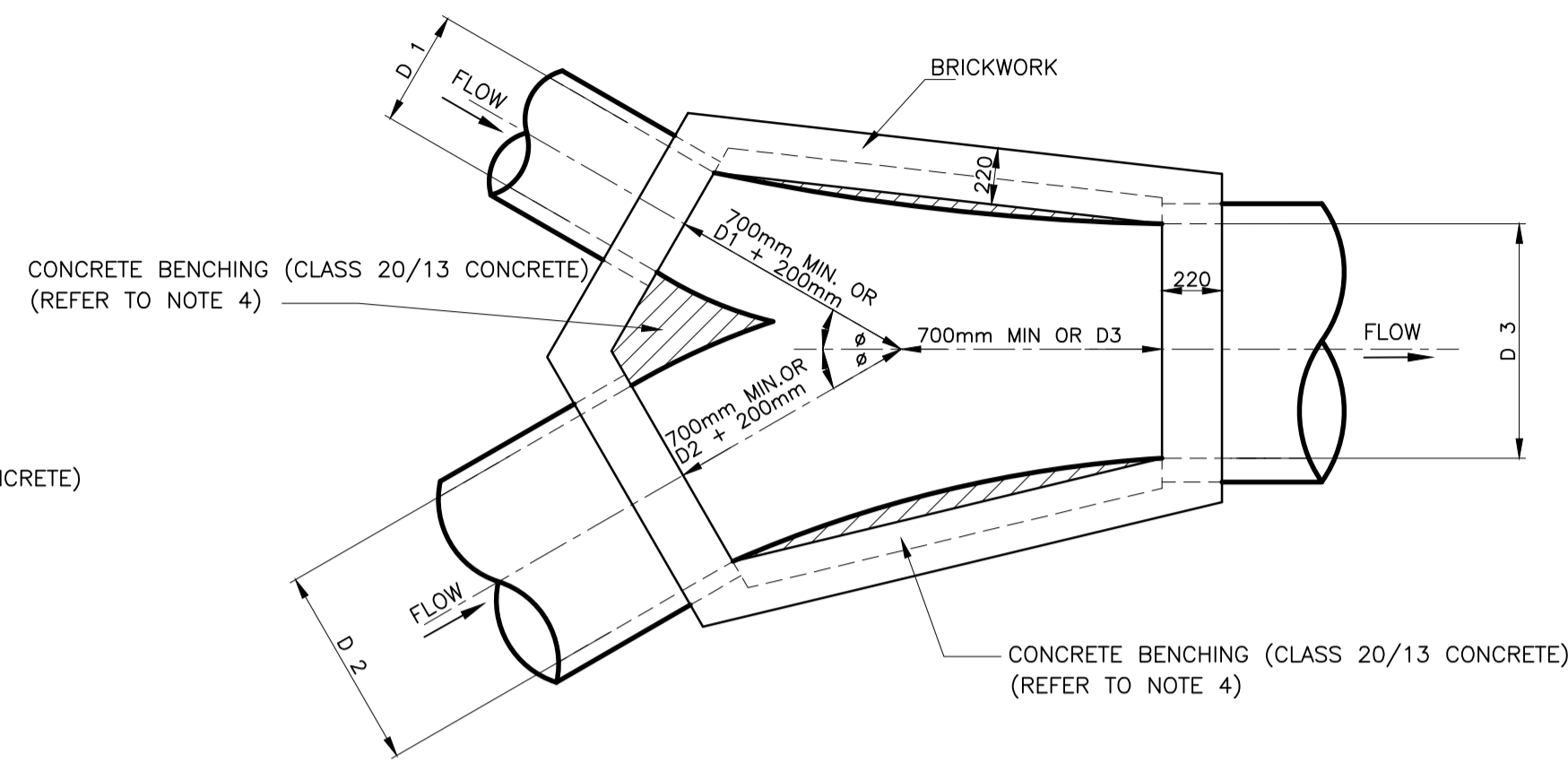


NOTES AND SPECIFICATIONS

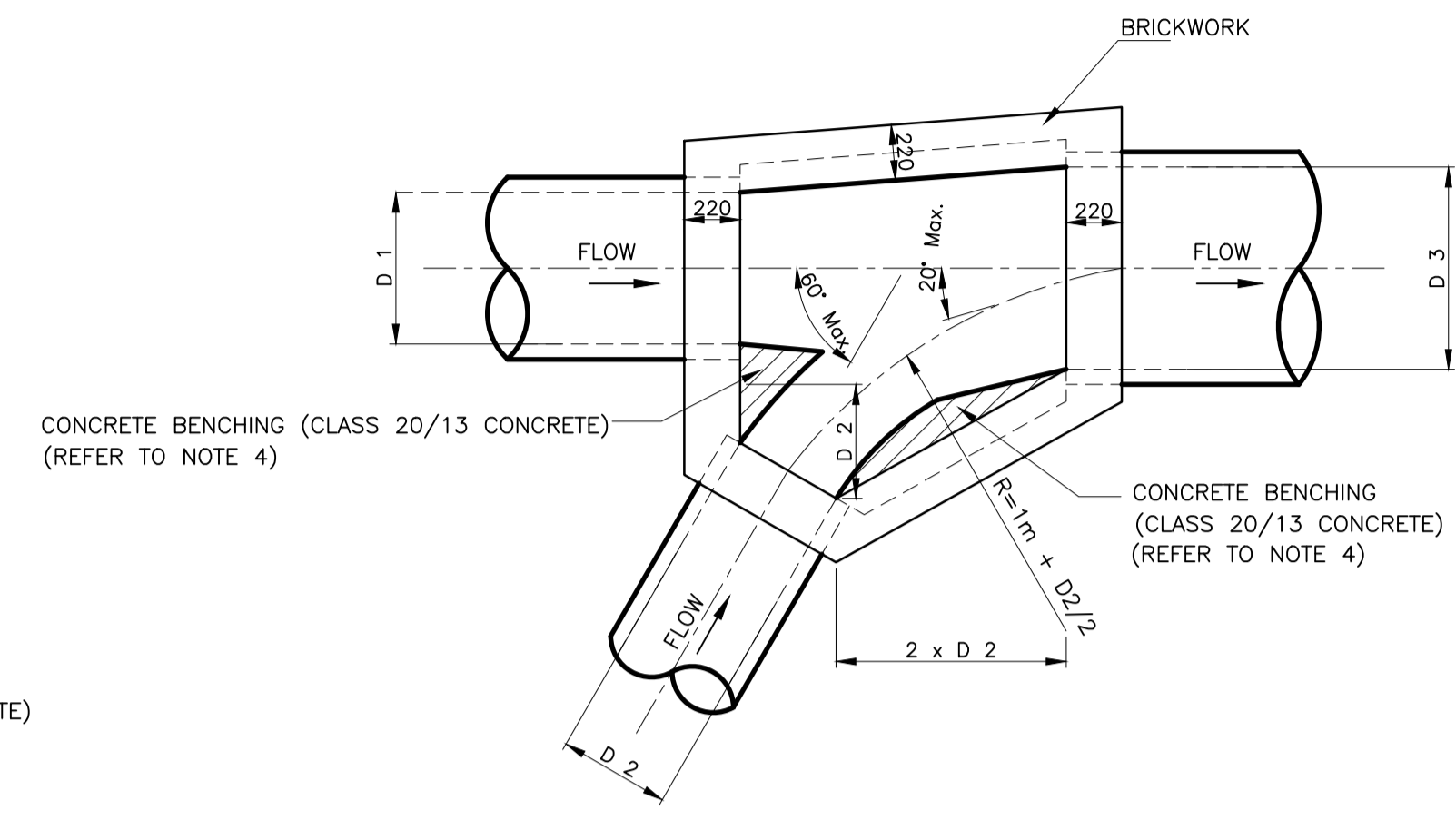
1. All stormwater pipes to be laid soffit to soffit
2. Minimum pipe diameter of all pipes is 450mm.
3. Maximum angle between adjoining pipes is 60°.
4. Where a pipe wall is at least 75mm from the nearest junction box wall, the concrete benching can be started adjacent to the double brick wall.
5. Where the total depth of the junction box (invert level to finished ground level) exceeds 2,0m a structural design must be submitted by a professional engineer.
6. All bricks shall comply with SABS 227 and shall be engineering units of class FBS (face brick standard) with a nominal compressive strength of 12 MPA.
7. Also refer to Section 502 of the Standard Specifications for Municipal Civil Engineering Works, 1991.



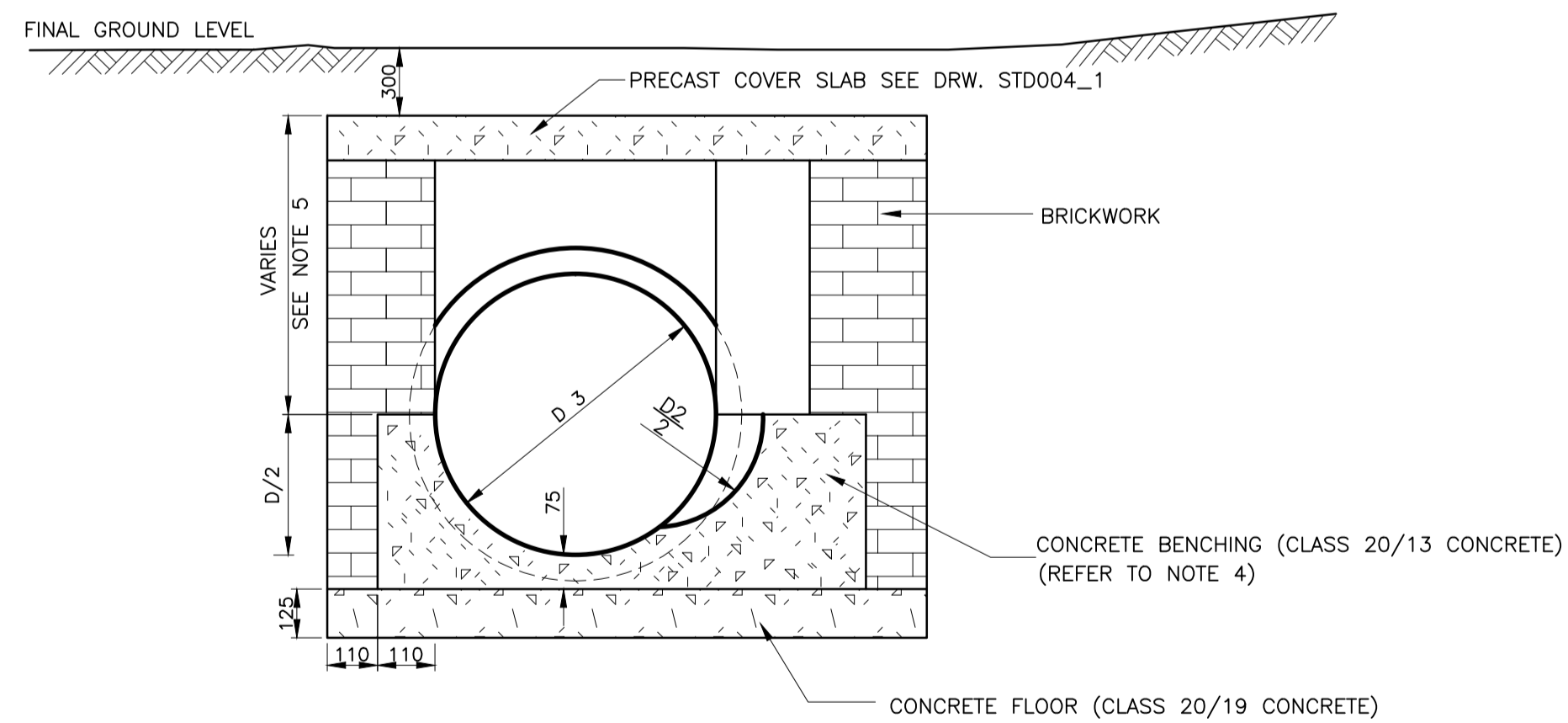
**PLAN OF TYPE C JUNCTION BOX ( WITHOUT COVER SLAB)**  
D 1 = D 3 AND D 2 VARIES



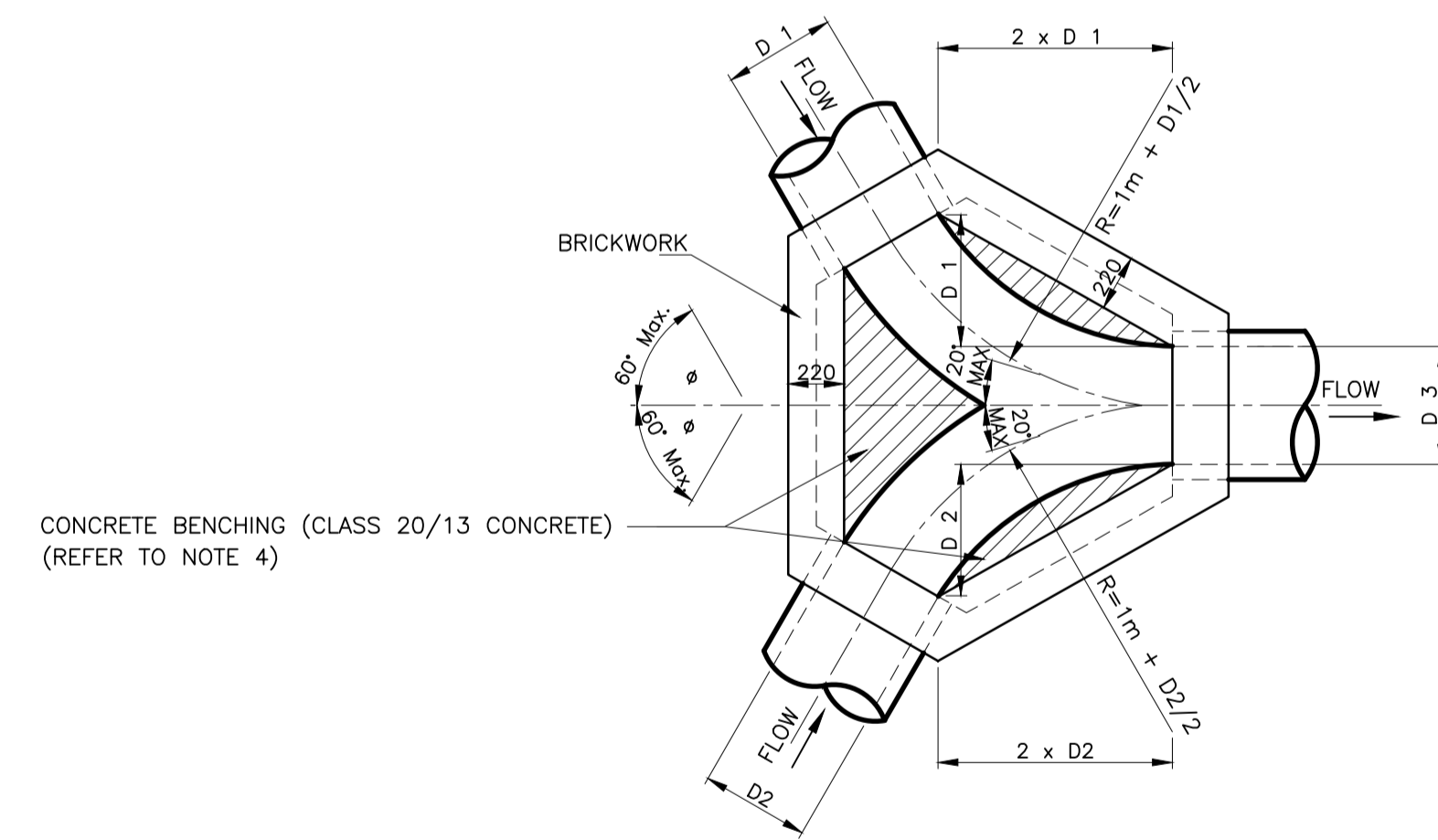
**PLAN OF TYPE C JUNCTION BOX ( WITHOUT COVER SLAB)**  
D 1 ≠ D 2 ≠ D 3 AND  $\theta < 30^\circ$



**PLAN OF TYPE C JUNCTION BOX ( WITHOUT COVER SLAB)**  
D 1 ≠ D 3 AND D 2 VARIES



**SECTION A-A**



**PLAN OF TYPE C JUNCTION BOX ( WITHOUT COVER SLAB)**  
D 1 = D 2 = D 3 AND  $\theta \neq 30^\circ$

AMENDMENTS				
NR.	DATE	APPROVED	DESCRIPTION	PAR.

DESIGNED J. CRONJE	DRAWN S. AUDIE
CHECKED BY S. NAIDOO	INFRASTRUCTURE TECHNICAL INFORMATION MANAGEMENT D.J. CHALMERS
SIGNATURE	SIGNATURE

**CITY OF TSHWANE  
ROADS AND TRANSPORT DEPARTMENT**

GROUP HEAD  
Mr Letloakane P. (Pheko)  
P.O. BOX 1409  
PRETORIA  
0001

DIVISIONAL HEAD  
Mr Marven K Tihagale  
P.O. BOX 1409  
PRETORIA  
0001

TRANSPORT INFRASTRUCTURE DESIGN/CONSTRUCTION Mr K Tihagale (Marven)	TRANSPORTATION PLANNING DIVISIONAL HEAD Mr L. Swanepoel (Lourens)
SIGNATURE: _____	SIGNATURE: _____
DATE: _____	DATE: _____

DRAWING APPROVED BY GROUP HEAD  
Mr Letloakane P. (Pheko)

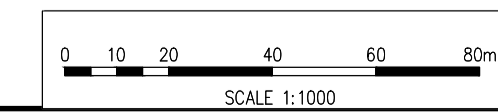
SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**TYPICAL STANDARD  
DETAILS**

**JUNCTION BOX AND  
MANHOLE DETAILS:  
TYPE C JUNCTION BOX**

CONTRACT No. : \_\_\_\_\_ PROJECT No. : \_\_\_\_\_

DATE: FEBRUARY 2017 SCALE: AS SHOWN ORIGINAL PAPER SIZE: A1



DRAWING NO: **STD004** SHEET NO: 4 OF 7 REVISION: \_\_\_\_\_