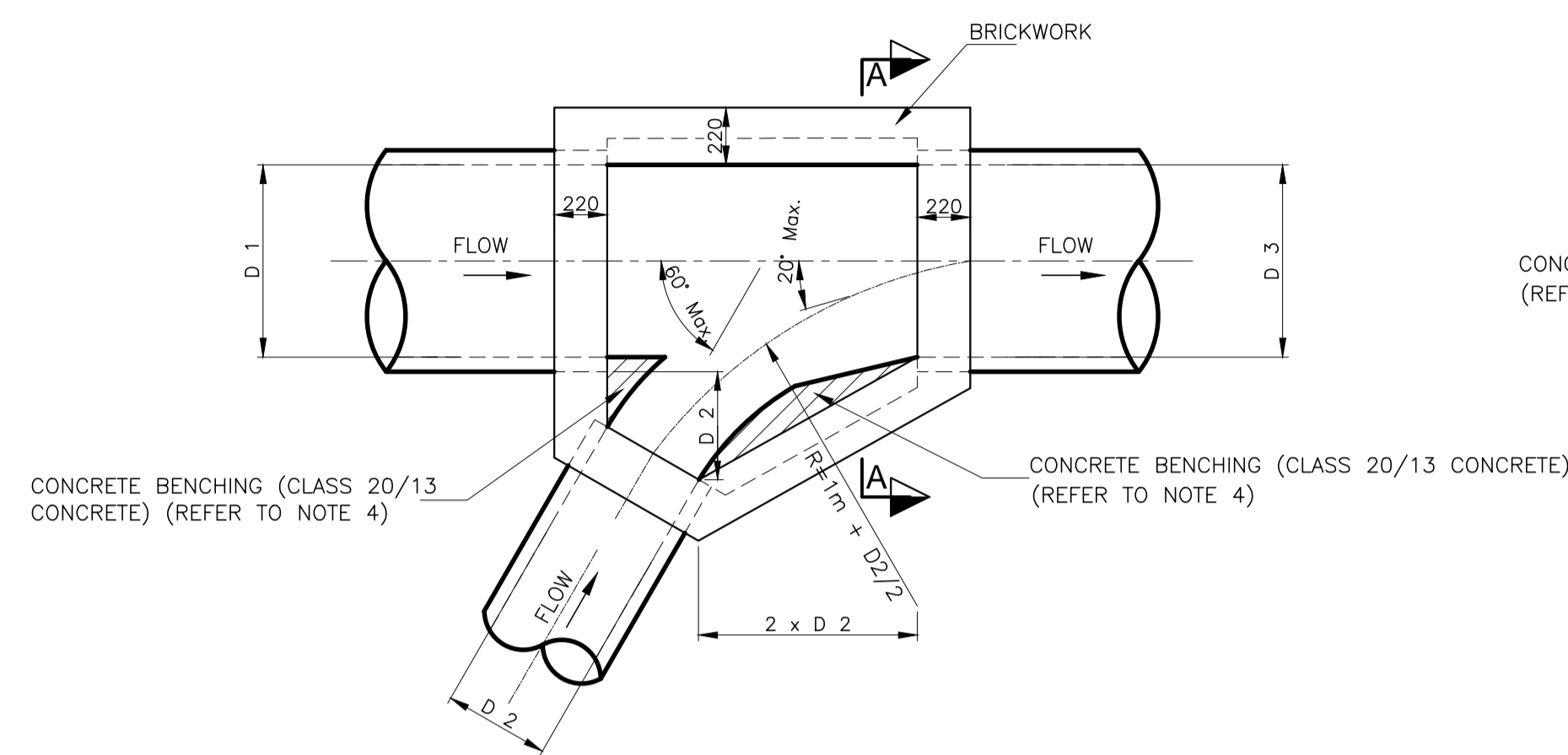


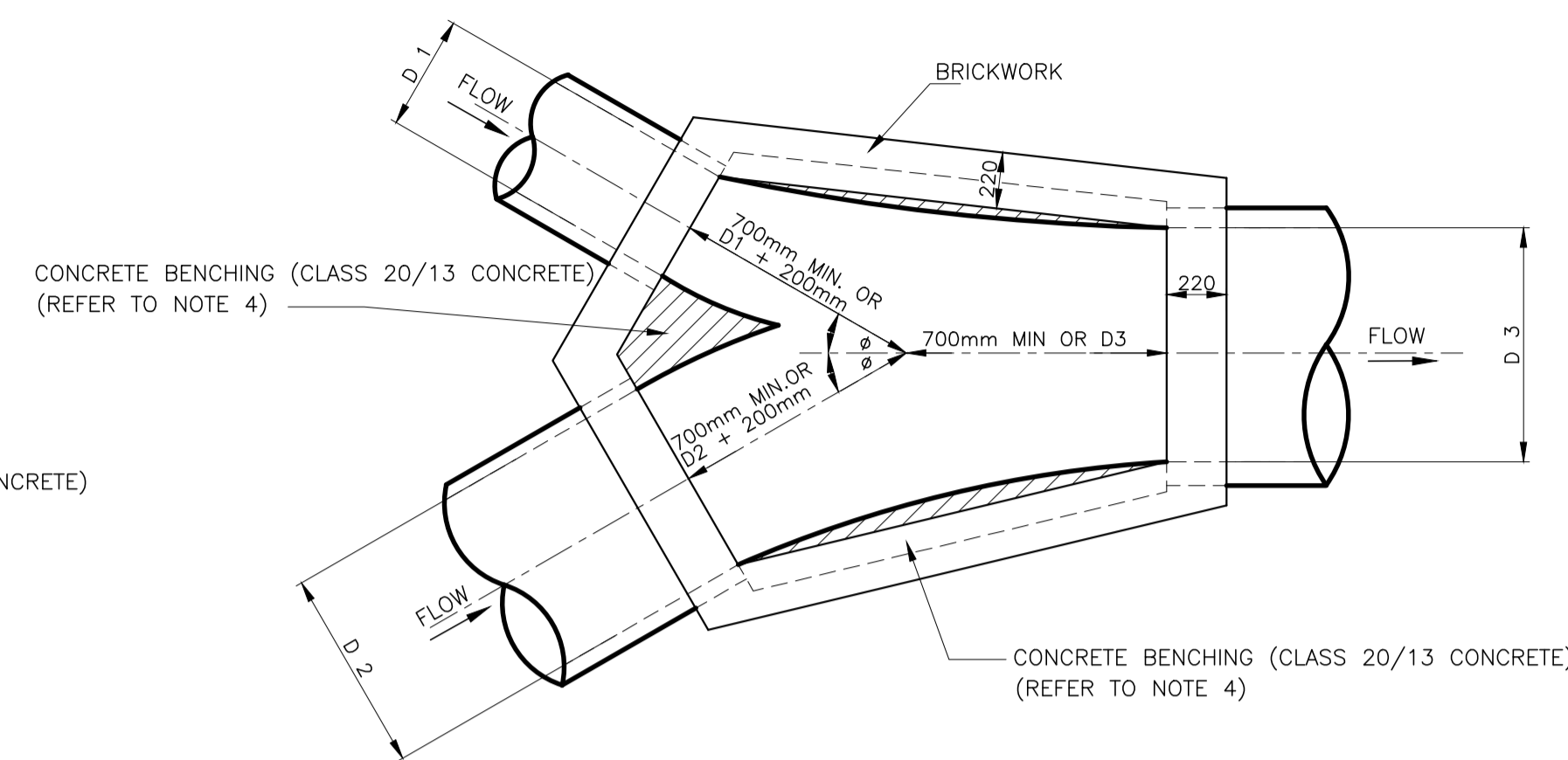
NOTES AND SPECIFICATIONS

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.



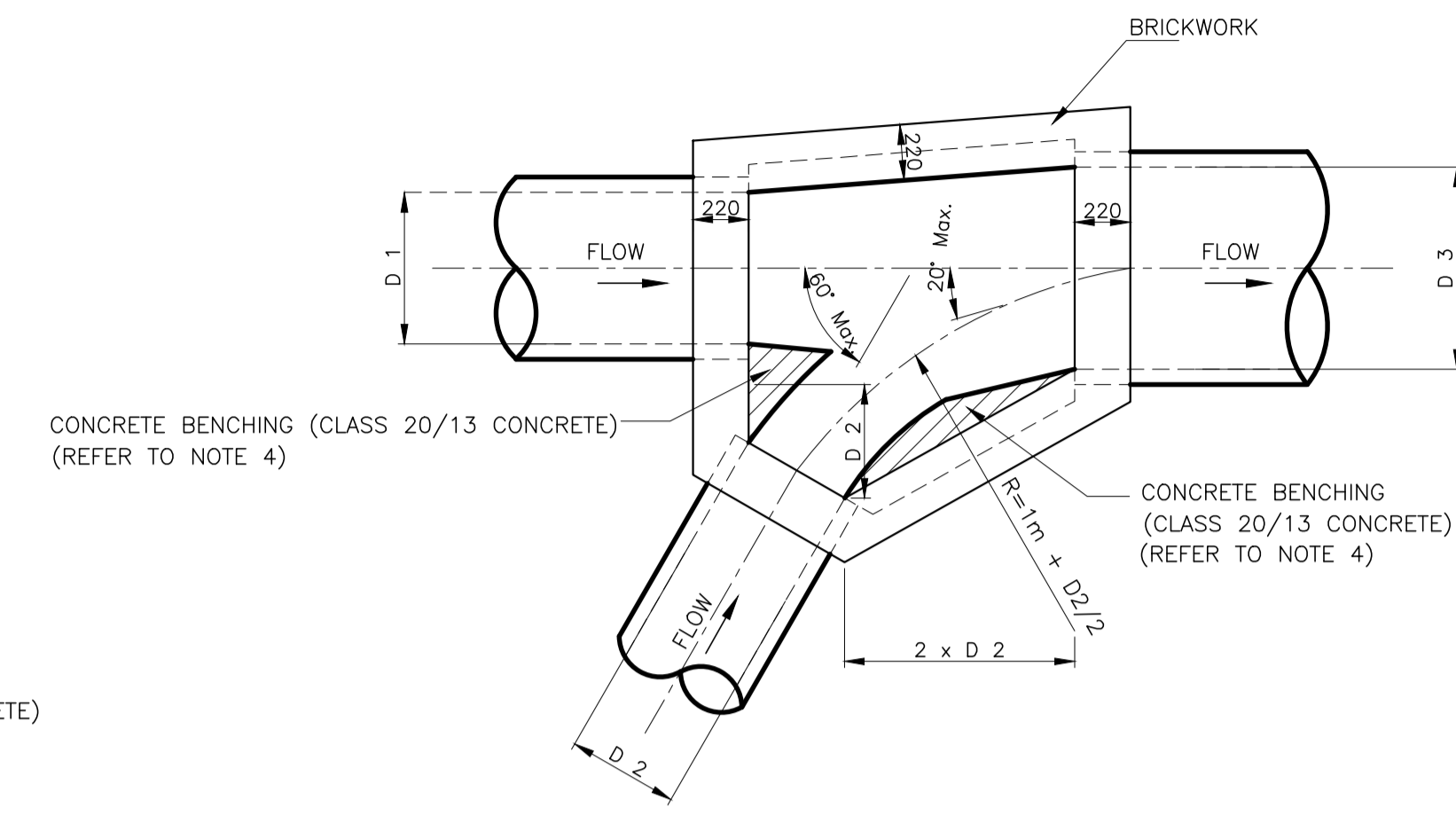
PLAN OF TYPE C JUNCTION BOX (WITHOUT COVER SLAB)

D 1 = D 3 AND D 2 VARIES



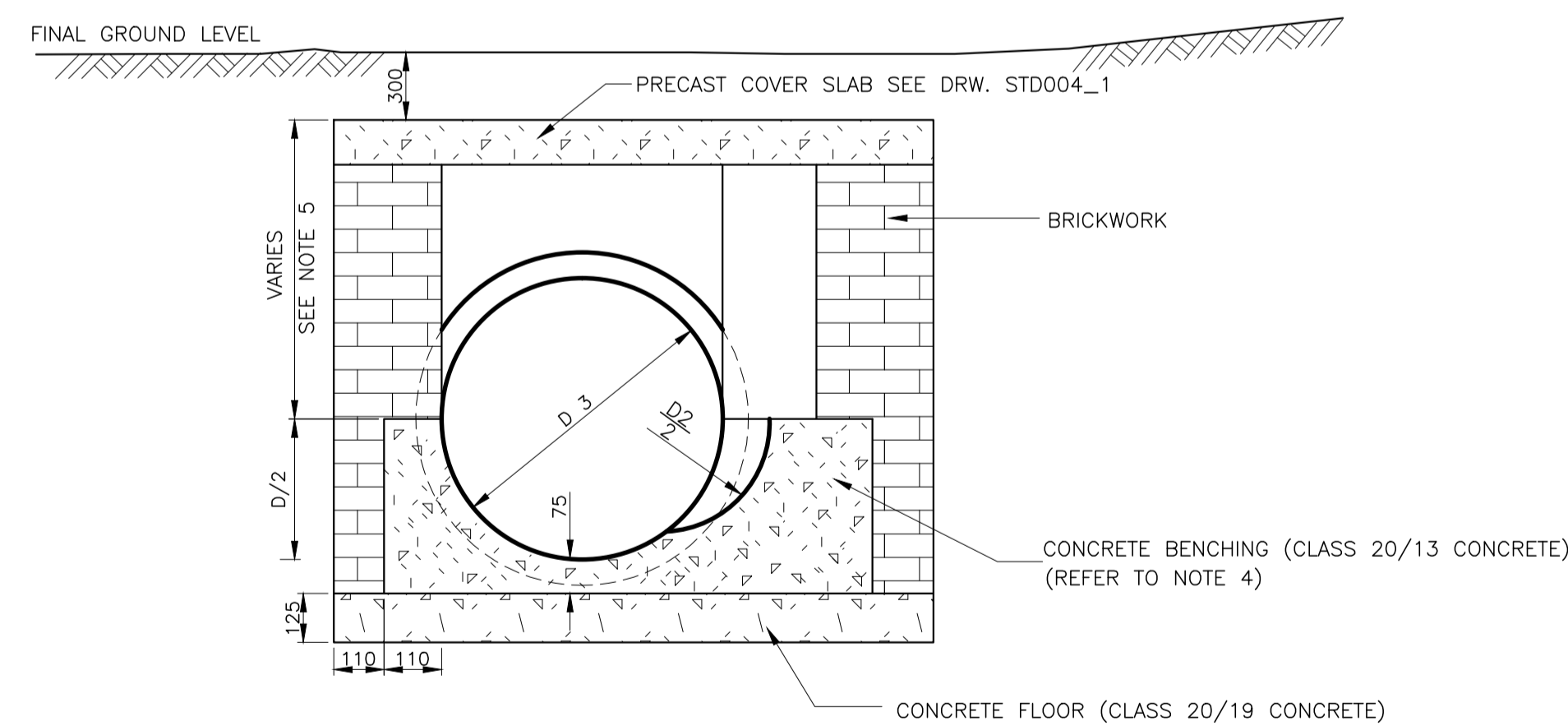
PLAN OF TYPE C JUNCTION BOX (WITHOUT COVER SLAB)

D 1 ≠ D 2 ≠ D 3 AND $\theta < 30^\circ$

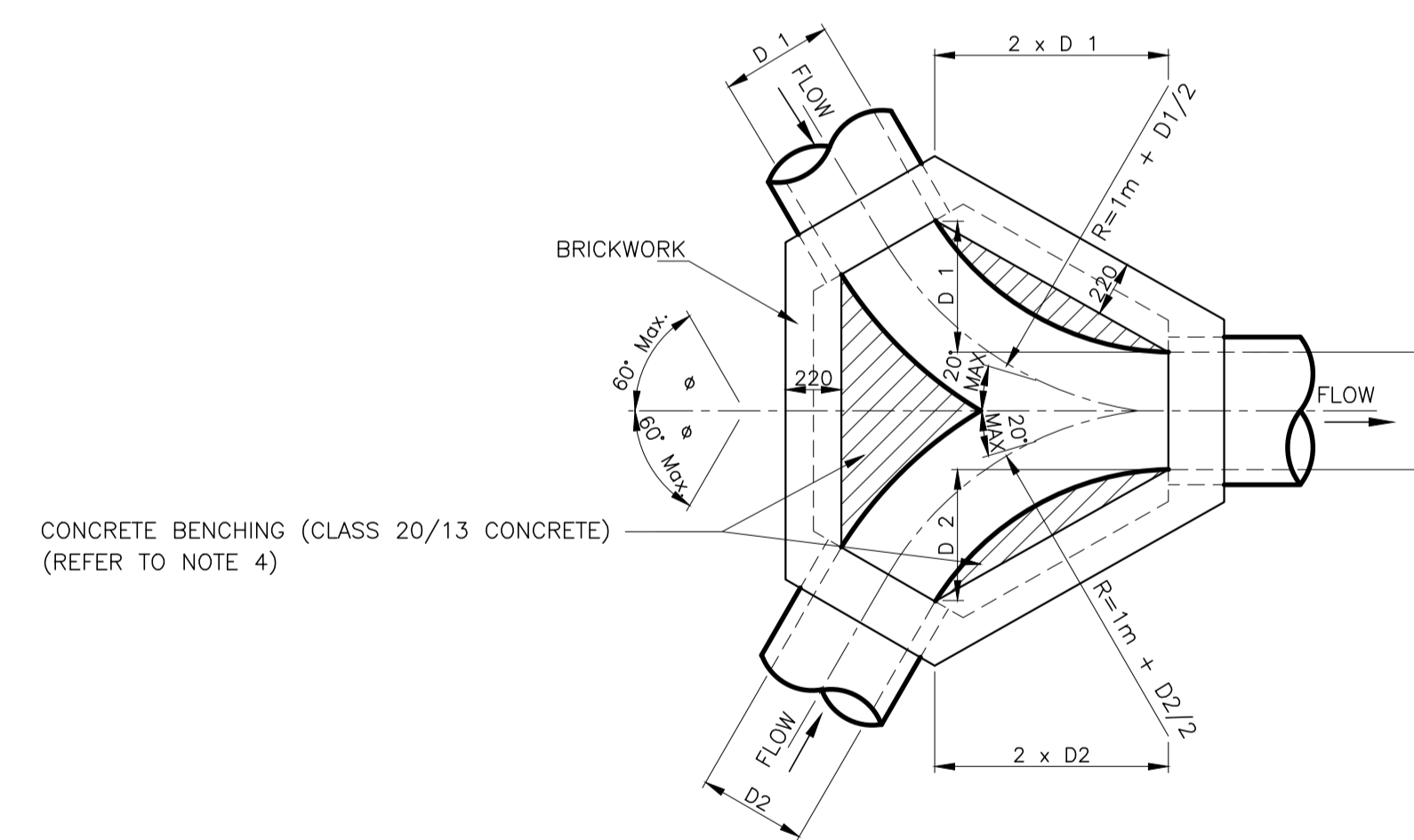


PLAN OF TYPE C JUNCTION BOX

(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.G. JANSSEN VAN VUUREN Pr.Tech. SIGNATURE: _____ DATE: _____	DRAWN S. AUDIE SIGNATURE: _____ DATE: _____
DESIGN CHECKED BY P. A. OEDENDAAL Pr.Eng. SIGNATURE: _____ DATE: _____	INFRASTRUCTURE TECHNICAL INFORMATION MANAGEMENT D.J. CHALMERS SIGNATURE: _____ DATE: _____

PROJECT STATUS			
<input type="radio"/> CONCEPT DRAWING	<input type="radio"/> STANDARD DRAWING	<input type="radio"/> APPROVED FOR CONSTRUCTION DRAWING	<input type="radio"/> AS BUILT DRAWING

PROJECT ENGINEER (CONSULTANT)	INITIALS AND SURNAME _____ SIGNATURE AND Pr. No. _____ DATE _____
INSPECTOR OF WORKS (CITY OF TSHWANE)	INITIALS AND SURNAME _____ SIGNATURE AND Pr. No. _____ DATE _____

CONSULTANT DETAIL

CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Mr P. I. Leflonkane
STRATEGIC EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA 0001

Ms. L. V. Kegaklwe-Piki
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA 0001

DRAWING APPROVED BY EXECUTIVE DIRECTOR
Ms. L. V. Kegaklwe-Piki

SIGNATURE: _____	DATE: _____
------------------	-------------

LOCATION OF PROJECT: _____

TYPICAL STANDARD DETAILS

DESCRIPTION OF PROJECT
**JUNCTION BOX AND MANHOLE DETAILS:
TYPE C JUNCTION BOX**

CONTRACT No.:	PROJECT No.:
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DATE: MAY 2013	SCALE: AS SHOWN	ORIGINAL PAPER SIZE: A1
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DRAWING NO. STD004	SHEET NO. 4 OF 7	REVISION
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ROADS AND STORMWATER For Internal Approval	
DIRECTOR: INFRASTRUCTURE PROVISION	SIGNATURE: _____ DATE: _____
DIRECTOR: INFRASTRUCTURE CONSTRUCTION (PROJECT) MANAGEMENT	SIGNATURE: _____ DATE: _____
DIRECTOR: INFRASTRUCTURE ASSET MANAGEMENT	SIGNATURE: _____ DATE: _____
DIRECTOR: TRANSPORT INFRASTRUCTURE PLANNING	SIGNATURE: _____ DATE: _____
DIRECTOR: INTELLIGENT TRANSPORT SYSTEM AND TRAFFIC ENGINEERING	SIGNATURE: _____ DATE: _____
DIRECTOR: INFRASTRUCTURE MAINTENANCE MANAGEMENT (BMM)	SIGNATURE: _____ DATE: _____

SCALE 1:1000

DRAWING LOCATION