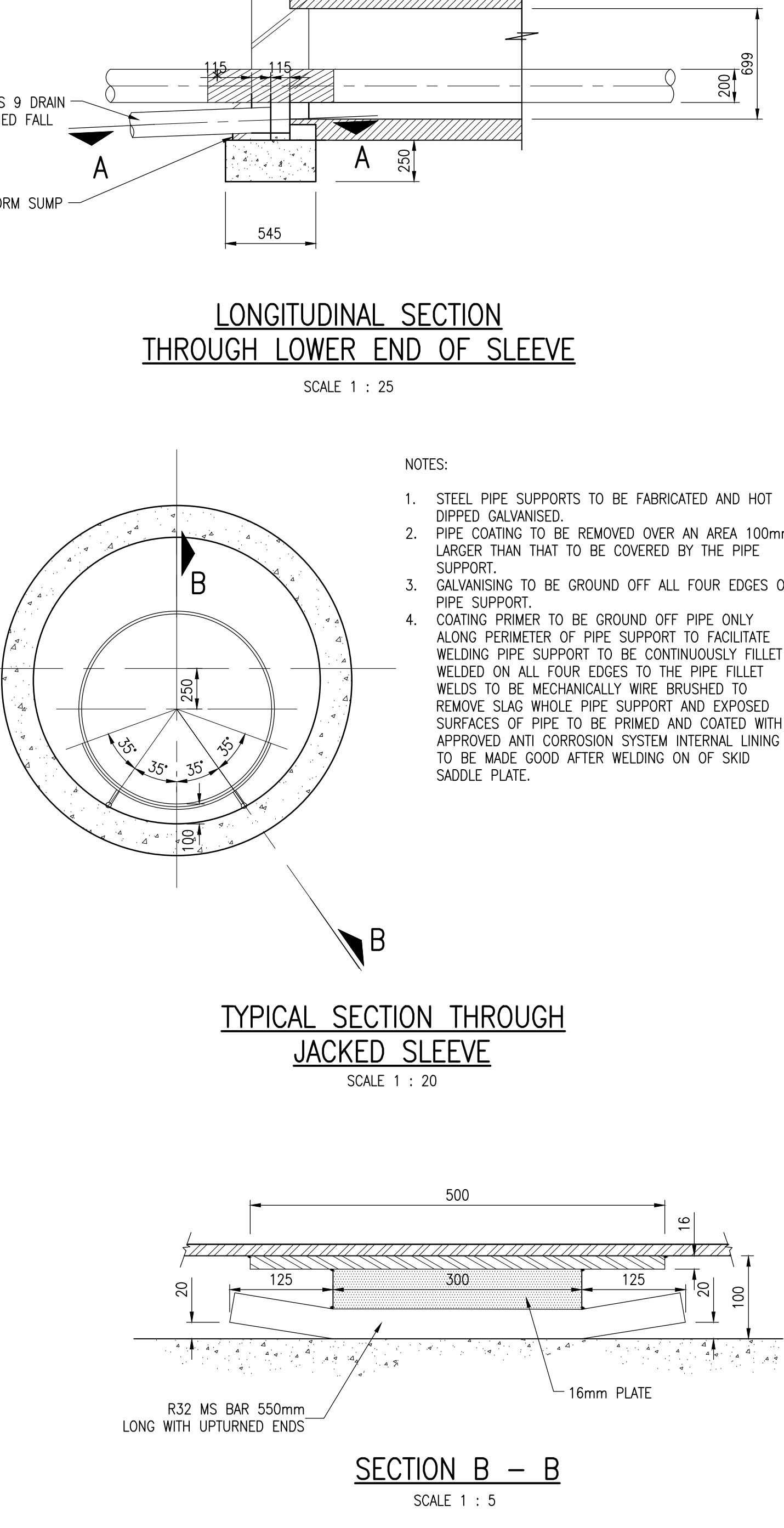
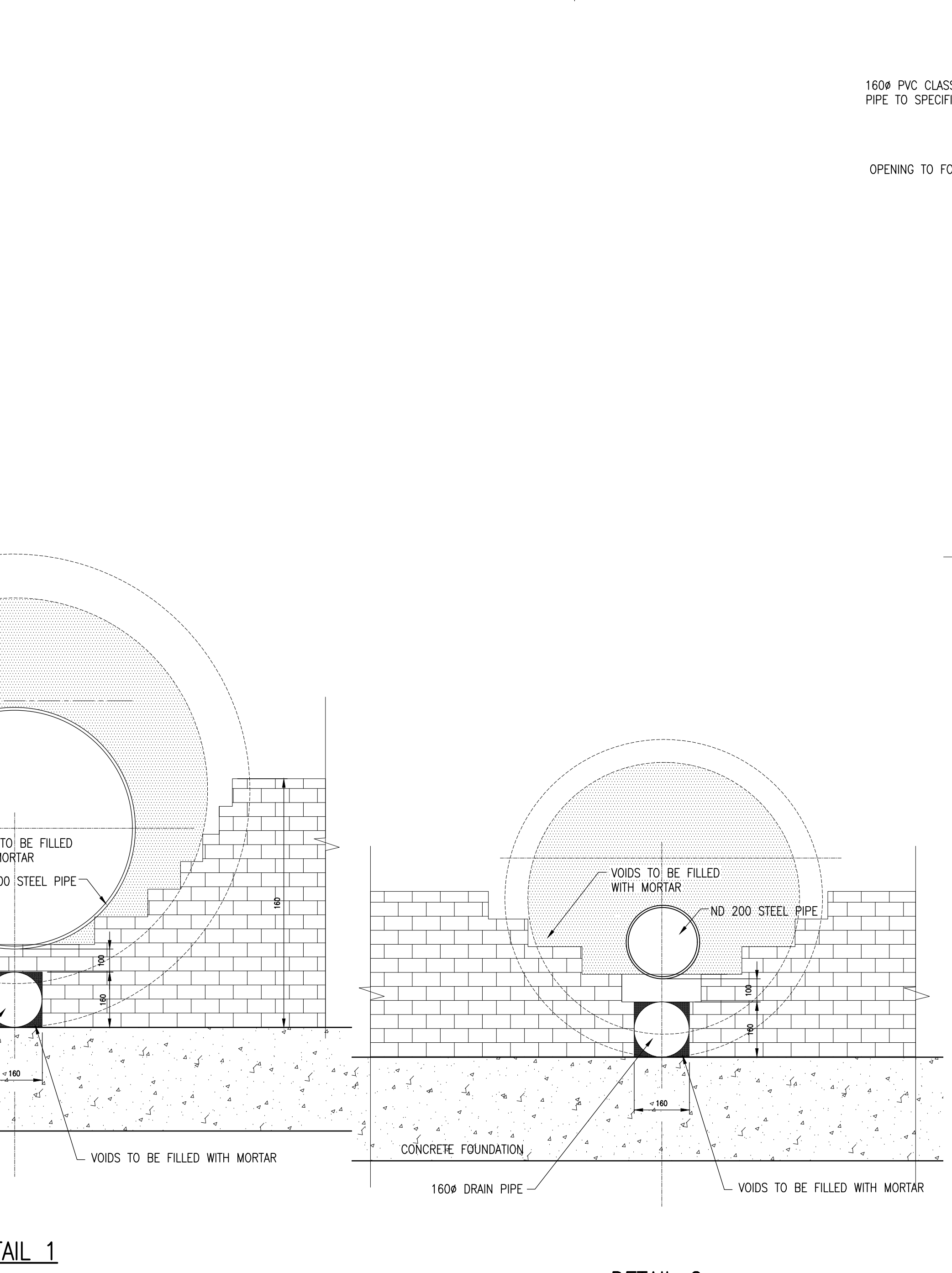
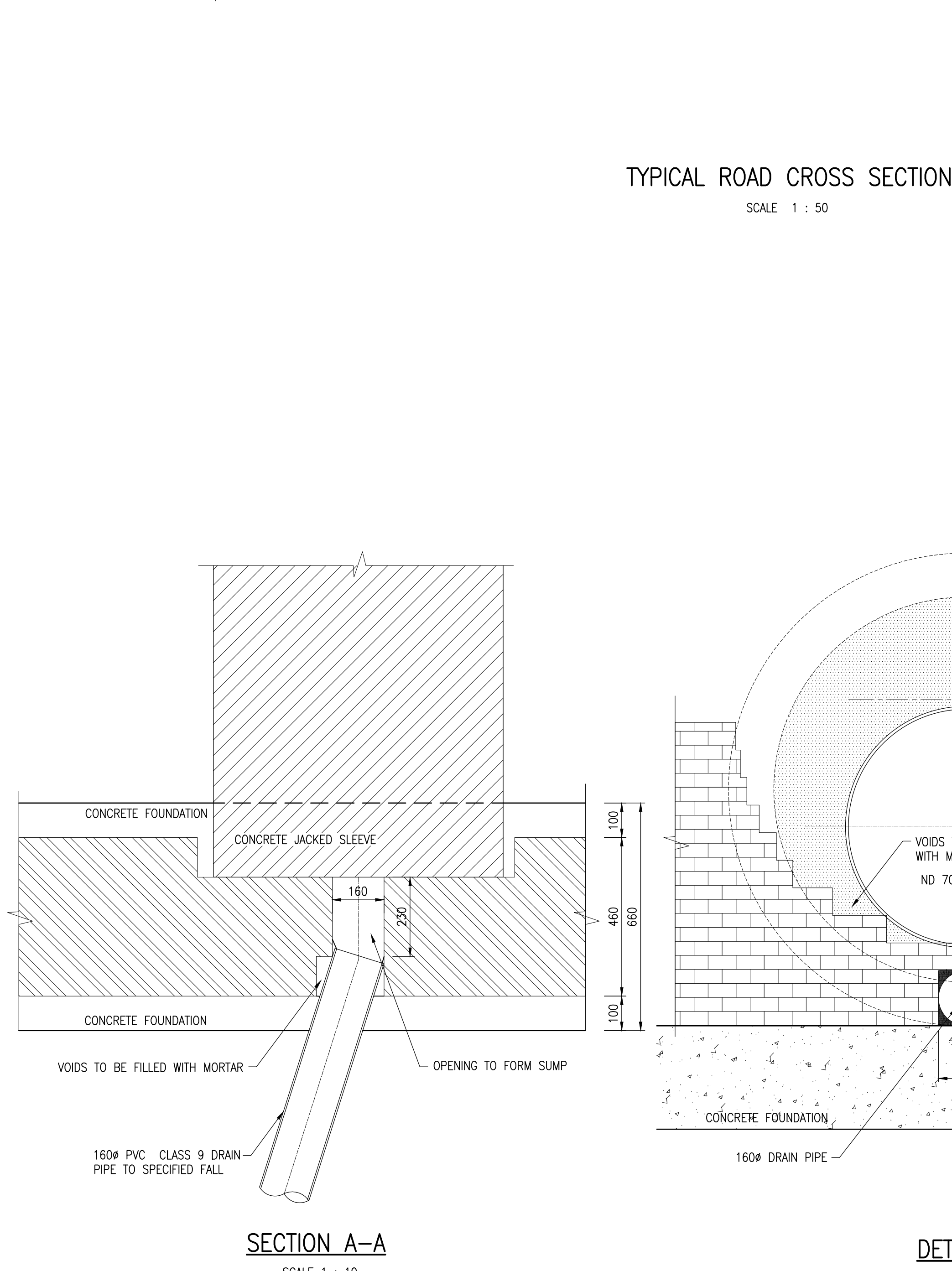
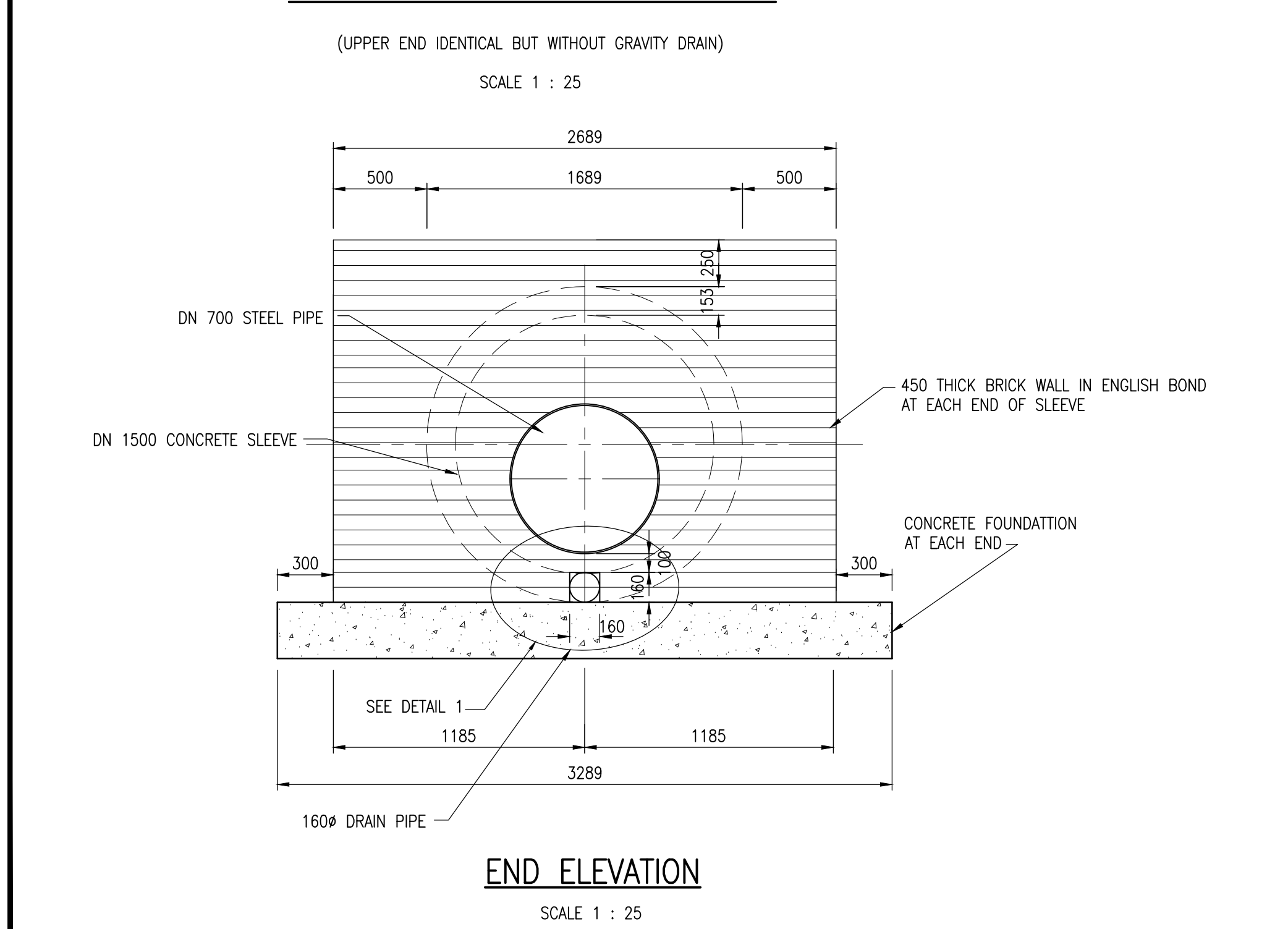
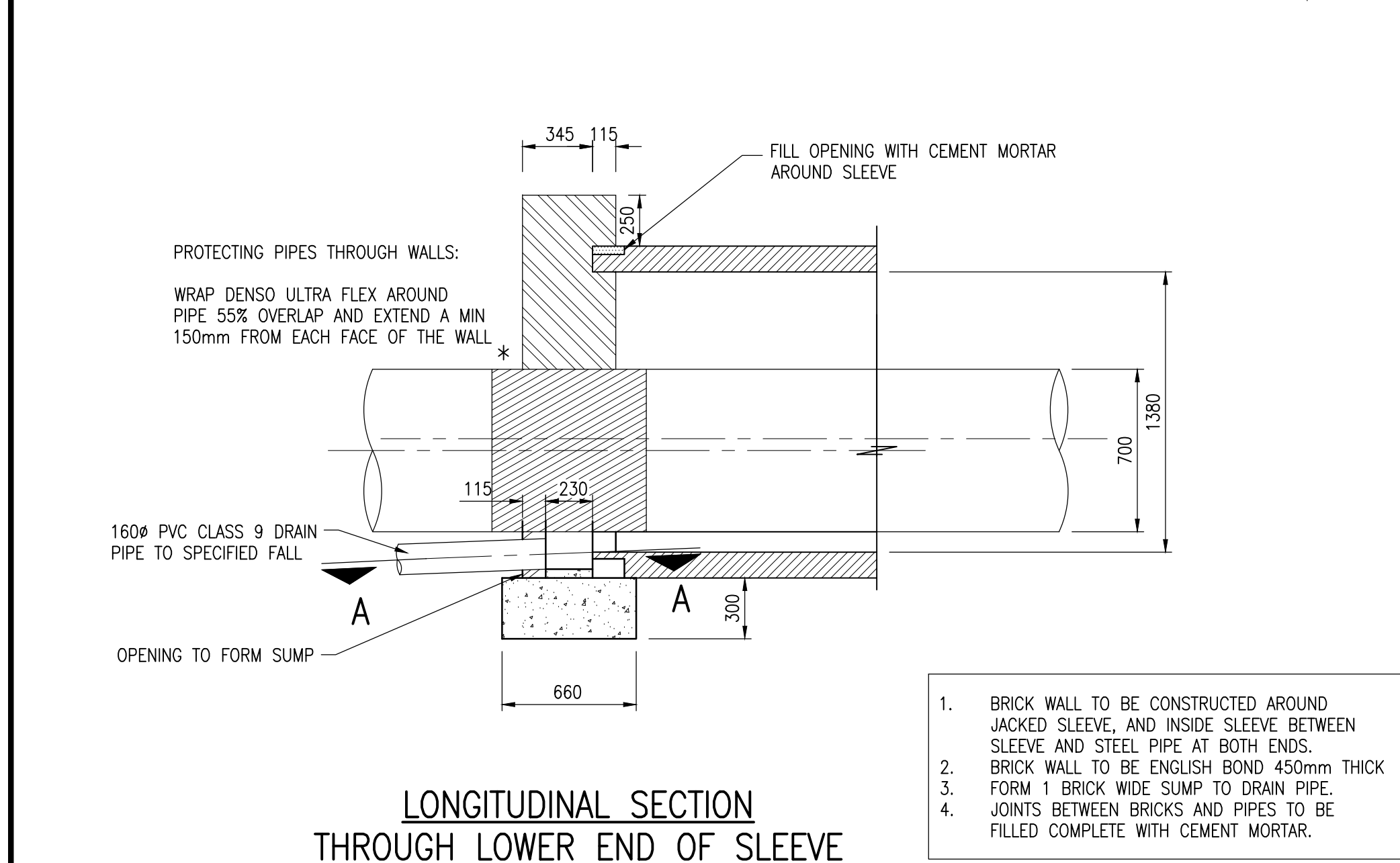
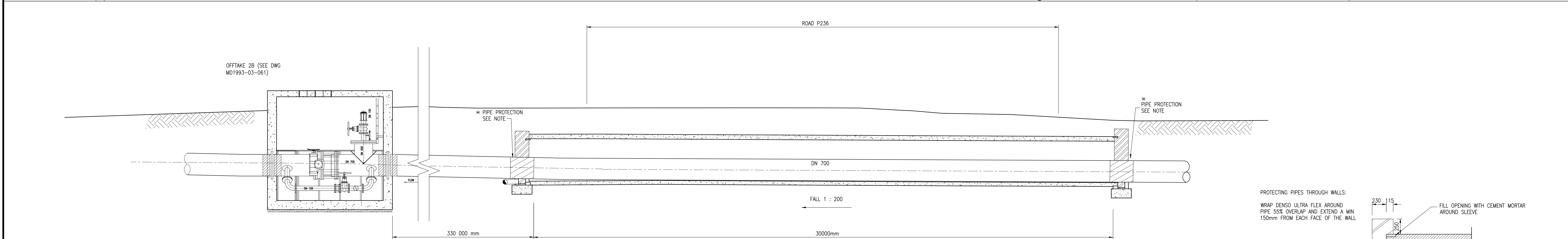
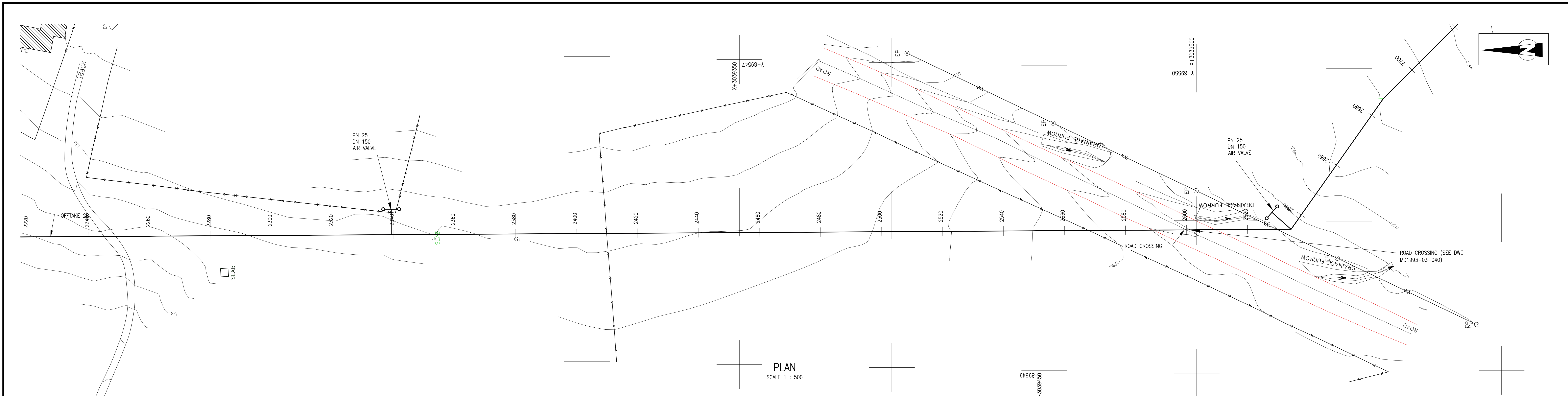




DRG. No.	REFERENCE DRAWINGS
MD1993-03-001	LAYOUT PLAN
MD1993-03-002	DAT700 ROUTE PLAN AND SMALL SCALE LONGITUDINAL SECTIONS
MD1993-03-003	DN200 (OFF-TAKE) ROUTE PLAN AND SMALL SCALE LONGITUDINAL SECTIONS
MD1993-03-010	DAT700 ROUTE PLAN AND LONGITUDINAL SECTIONS (SHEET 1 OF 4)
MD1993-03-011	DAT700 ROUTE PLAN AND LONGITUDINAL SECTIONS (SHEET 2 OF 4)
MD1993-03-012	DAT700 ROUTE PLAN AND LONGITUDINAL SECTIONS (SHEET 3 OF 4)
MD1993-03-013	DAT700 ROUTE PLAN AND LONGITUDINAL SECTIONS (SHEET 4 OF 4)
MD1993-03-014	DN200 (OFF-TAKE) ROUTE PLAN AND LONGITUDINAL SECTIONS (SHEET 1 OF 3)
MD1993-03-015	DN200 (OFF-TAKE) ROUTE PLAN AND LONGITUDINAL SECTIONS (SHEET 2 OF 3)
MD1993-03-016	DN200 (OFF-TAKE) ROUTE PLAN AND LONGITUDINAL SECTIONS (SHEET 3 OF 3)
MD1993-03-040	ROAD CROSSING DETAILS
MD1993-03-041	STREAM CROSSING DETAILS
MD1993-03-042	STREAM SCOUR CHAMBER DETAILS
MD1993-03-043	CANAL CROSSING DETAILS
MD1993-03-060	OFF-TAKE 2A DETAILS
MD1993-03-061	OFF-TAKE 2B DETAILS
MD1993-03-070	CONNECTION TO TANKS
M1993-03-080	STANDARD DETAILS
MD1993-03-081	GENERAL DETAILS (SHEET 1 OF 2)
MD1993-03-082	GENERAL DETAILS (SHEET 2 OF 2)

NOTES:

PIPEWORK:

- ALL BOLTS TO BE HOT-DIPPED GALV. TO SANS 1463.
- ALL MILD STEEL PIPEWORK, COLLARS AND GROUT PLATES TO BE MANUFACTURED FROM GRADE X42 STEEL (MINIMUM YIELD STRENGTH OF 289 MPa) AND WELDED IN ACCORDANCE WITH BS5692.
- ALL PIPEWORK PASSING THROUGH CHAMBER WALLS TO BE WRAPPED WITH 'DENSU ULTRAFLEX', OR EQUAL APPROVED. THIS WRAPPING TO EXTEND 150mm BEYOND THE FACE OF THE WALL EACH SIDE AND 75mm INTO THE CONCRETE. (WITH MIN. 55% OVERLAPPING).
- MINIMUM CLEARANCE BETWEEN ALL PIPEWORK AND REINFORCING STEEL TO BE 75mm.
- ALL BURIED NUTS AND BOLTS TO BE COATED WITH DENSU WASTIC, IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
- FLANGES TO BE EN 1092-1:2007 TYPE 01, TABLE 14(PN25) FOR FLANGES GREATER THAN DN400 & SANS 1123 TABLE 2500/3 FOR FLANGES DN400 OR SMALLER.
- DIMENSIONS TO BE CONFIRMED ON SITE PRIOR TO ORDERING.

CONCRETE:

- ALL EXPOSED EDGES TO BE CHAMFERED 20 x 20 UNLESS OTHERWISE NOTED.
- MINIMUM COVER TO ALL REINFORCING TO BE 40mm UNLESS OTHERWISE NOTED.
- CONCRETE GRADE:-
 - BUILDING - GRADE 15/19 MPa
 - BENCHING - GRADE 15/19 MPa
 - SLABS & WALLS - GRADE 30/19 MPa

GENERAL:

- ALL STEELWORK SHALL BE IN ACCORDANCE WITH SANS 0162 - THE STRUCTURAL USE OF STEEL.
- MATERIAL SPECIFICATION LOADERS, OPENING FRAMES & COVERS AND PIPE SUPPORTS: MILD STEEL TO BS 4360 GR43.

PIPE SUPPORTS:

- POSITION OF PIPE SUPPORTS AS INSTRUCTED BY ENGINEER ON SITE.

REV	DESCRIPTION	DATE	REV BY/CHKD
DESIGNED	M.N		
DRAWN	P.W		
CHECKED	N.M		

APPROVED :

PROJ. PRINCIPAL: NATHI NDOLOVI

SIGNATURE :

DATE (DD/MM/YYYY):

Royal HaskoningDHV
Enhancing Society Together

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CLIENT

Umkhanyalade
Umkhanyalade
Urban Municipality, Branda #umkanyalade

PROJECT/DRAWING TITLE

**JOZINI REGIONAL COMMUNITY
WATER SUPPLY SCHEME
PHASE 1A-2
ROAD CROSSING
DETAILS**

SCALE	SHEET
AS SHOWN	1 OF 1

CONTRACT No.	PROJECT No.
SCMU 005/2021/2022	MD1993

DRAWING No.	REV
MD1993-03-040	