

# NOTES

- All dimensions are in millimetres unless otherwise stated.
- Figured dimensions are to be taken in preference to scaling
- Concrete is to be C25.
- Min cover to reinforcement to be 40mm.
- Reinforcement:
  - High yield bars to be square twisted cold formed bars to BS 4461
  - Mild steel to be round bars to BS 4449
  - Mesh reinforcement to BS 4483.
- Min laps Y10 = 500mm  
Y12 = 600mm  
Y16 = 800mm
- Foundations shall be taken down to firm ground and all excavations to be approved first by the Engineer before placing 50mm concrete blinding.
- All exposed concrete edges shall have 25 x 25 chamfer.



CLEINT;



**THE REPUBLIC OF UGANDA**  
MINISTRY OF WATER AND ENVIRONMENT  
Directorate of Water Development

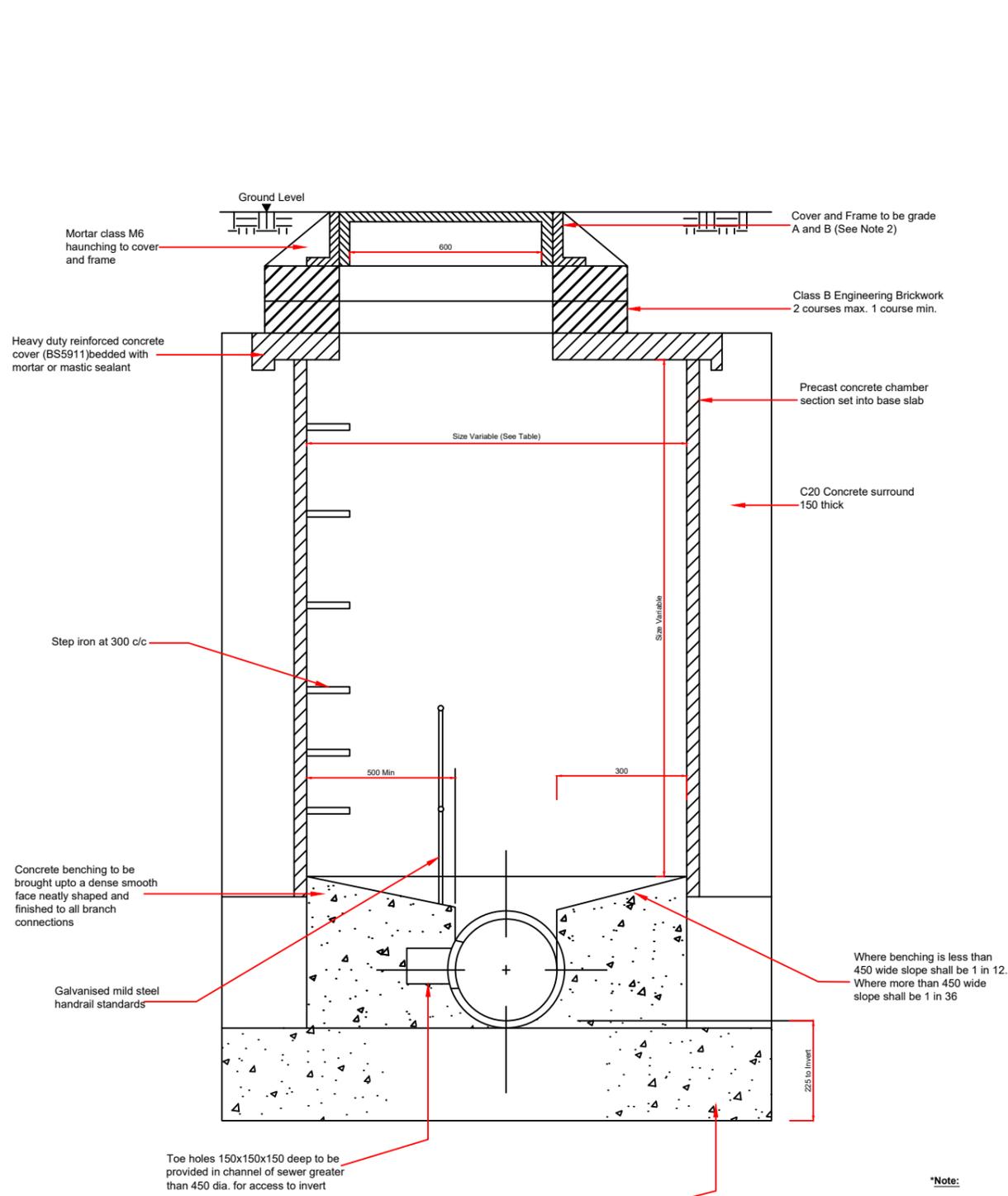
PROJECT

**KAWUMU PRESIDENTIAL MODEL IRRIGATION SYSTEM AND FACILITIES**

DRAWING TITLE

MANHOLE DETAILS

SURVEYED BY	SCALE 1:20
DRAWN BY N.D	DATE MAY 2021
CHECKED BY	DRAWING NO. SD 118
APPROVED BY	

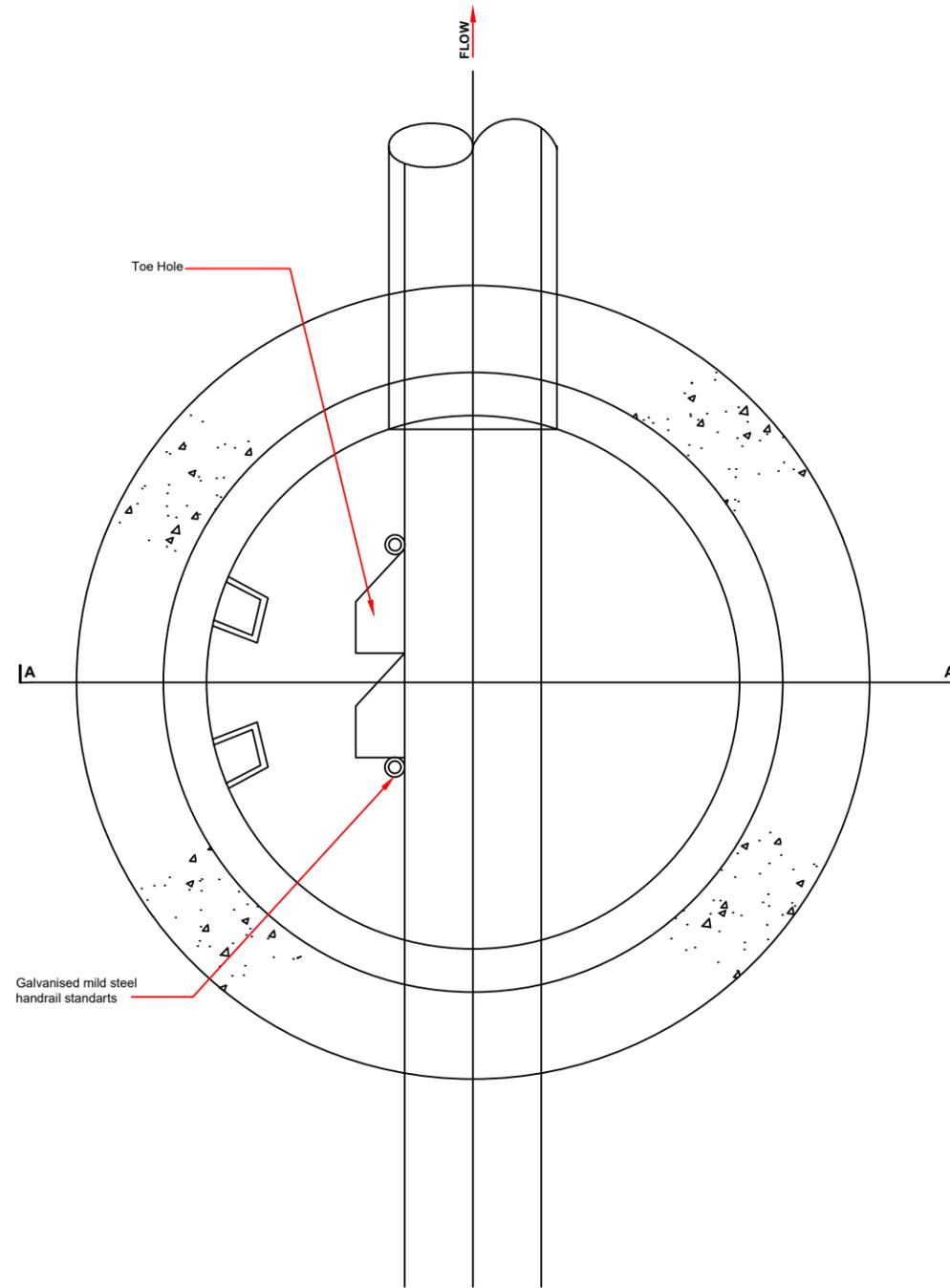


**SECTION A-A**

Pipe Diameter	Chamber section Dia
Less than 375	1200
375-450	1350
500-700	1500
750-900	1800

**\*Note:**

- Manholes for sewer sizes upto and including 900 dia. depth to soffit exceeding 1300 but not exceeding 3000.
- Grade A covers and frames shall be used in all new highways having a nominal carriageway width greater than 5.500 and in existing highways other than CUL-DE-SAC, grade B Class 1 covers and frames shall be used for all other manholes.
- Chambers with outgoing pipes greater than 700 dia. shall be fitted with removable safety chain at down stream end.
- Pipes entering manholes shall have a flexible joint within 600 of the inside face of the manhole for pipes upto 450 and within 1000 of the insideface of the manhole for pipes upto 1000. This shall be followed by a short rocker pipe.
- Internal dimensions of the chamber normally 1200x675 (as clear opening in frame). But chamber width should be increased for pipes larger than 225 dia. to give benching each side with the brickwork crebelled down to 675.
- All dimensions are in millimetres.



**SECTIONAL PLAN**