

NOTES:

GATE VALVES:

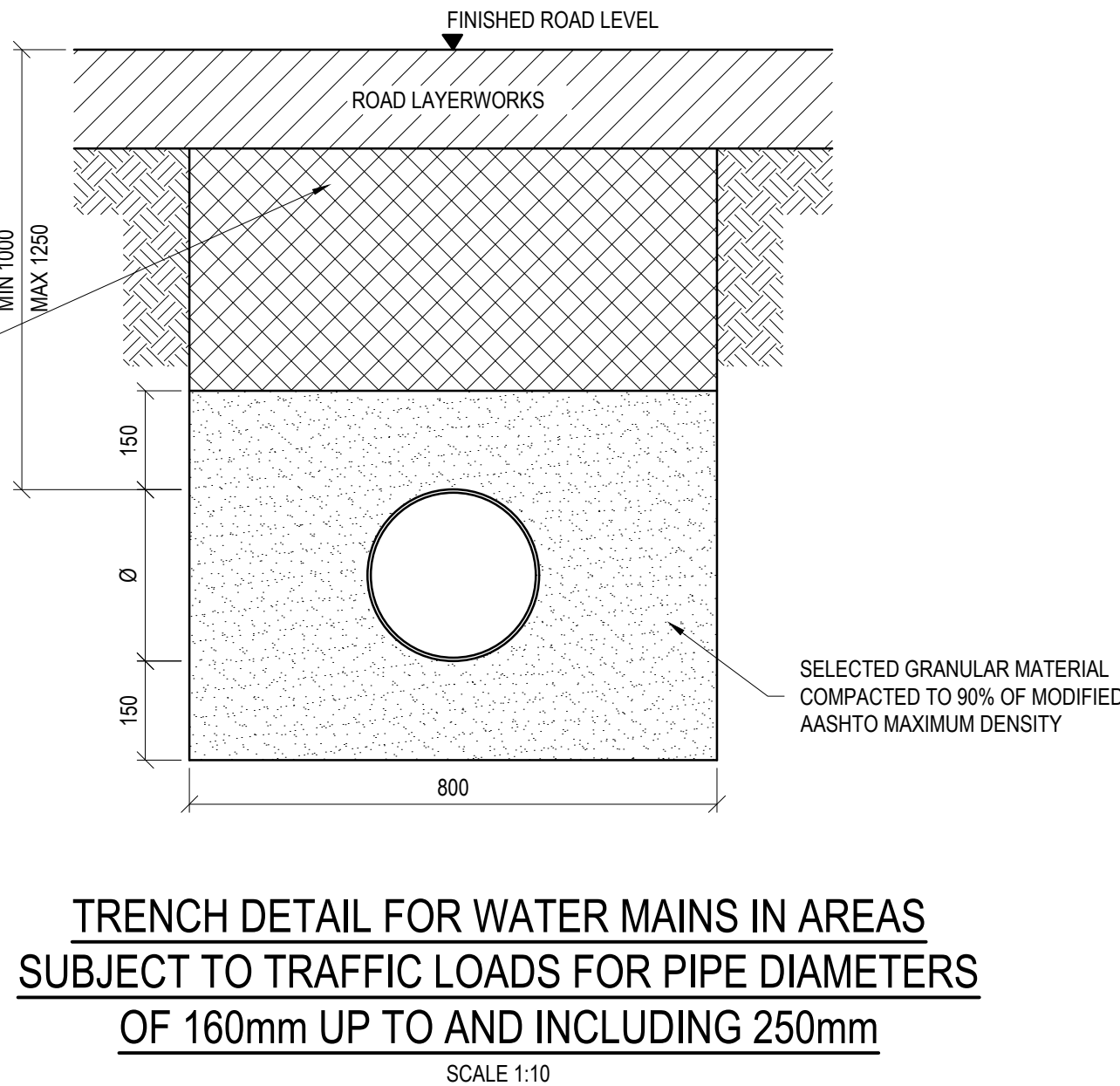
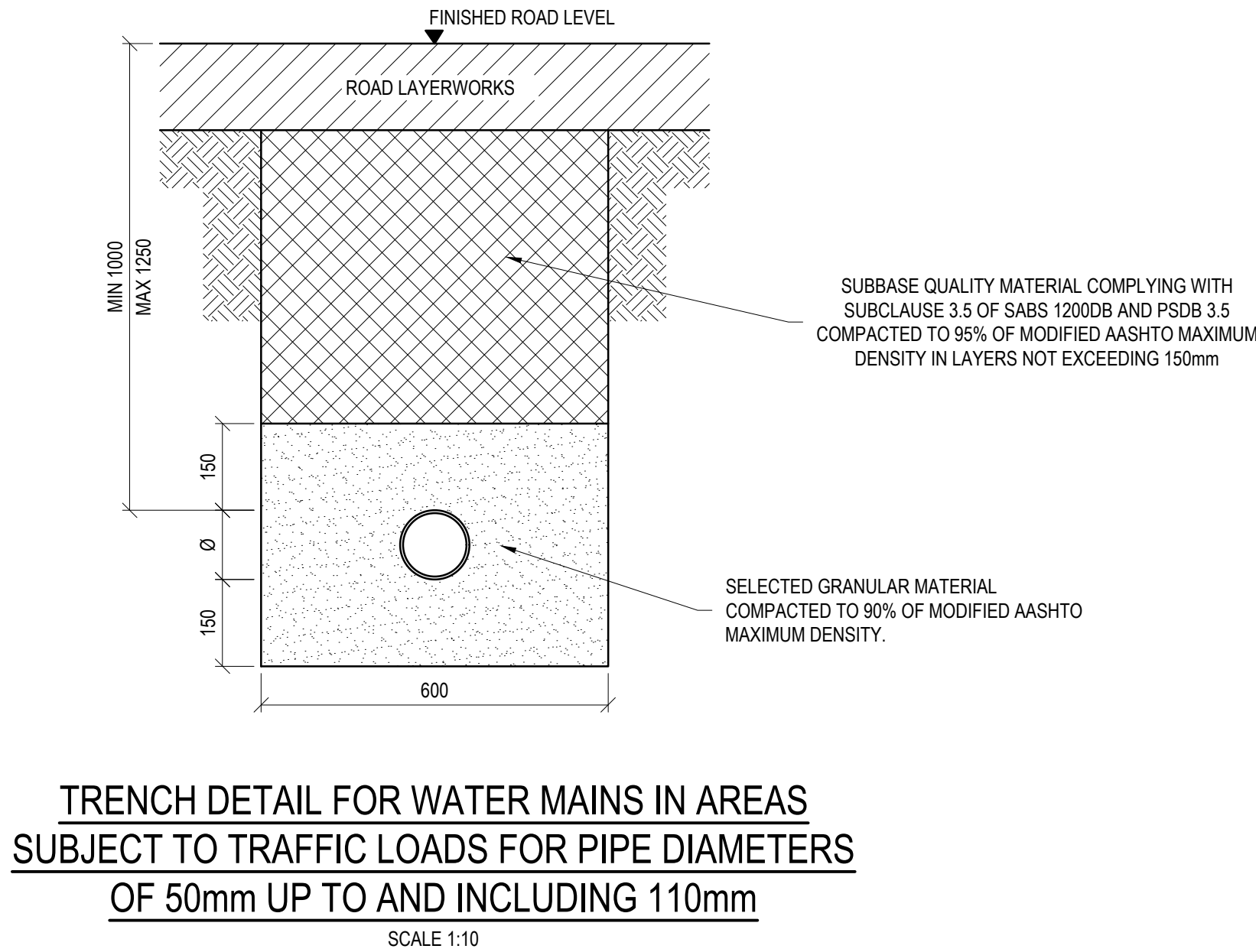
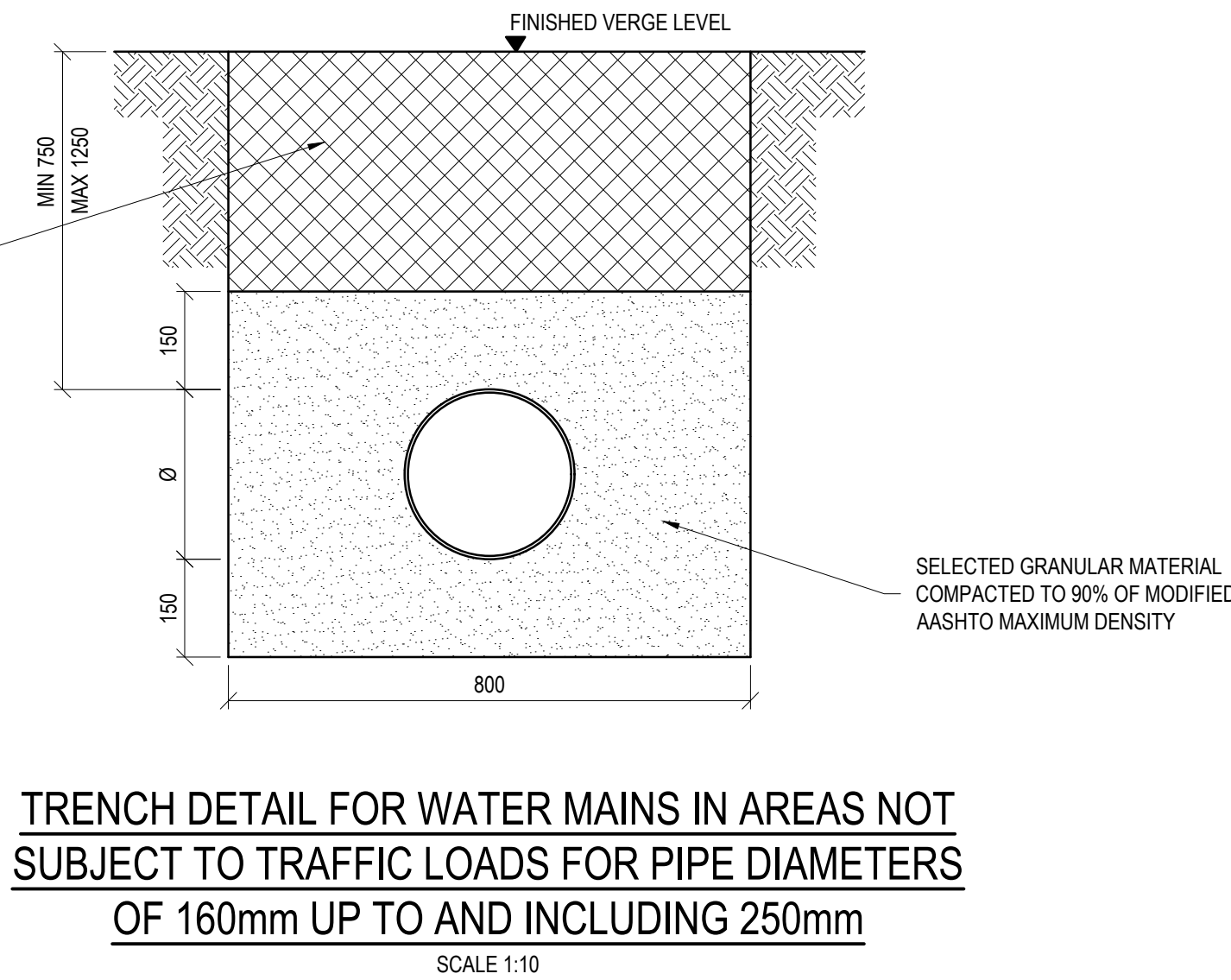
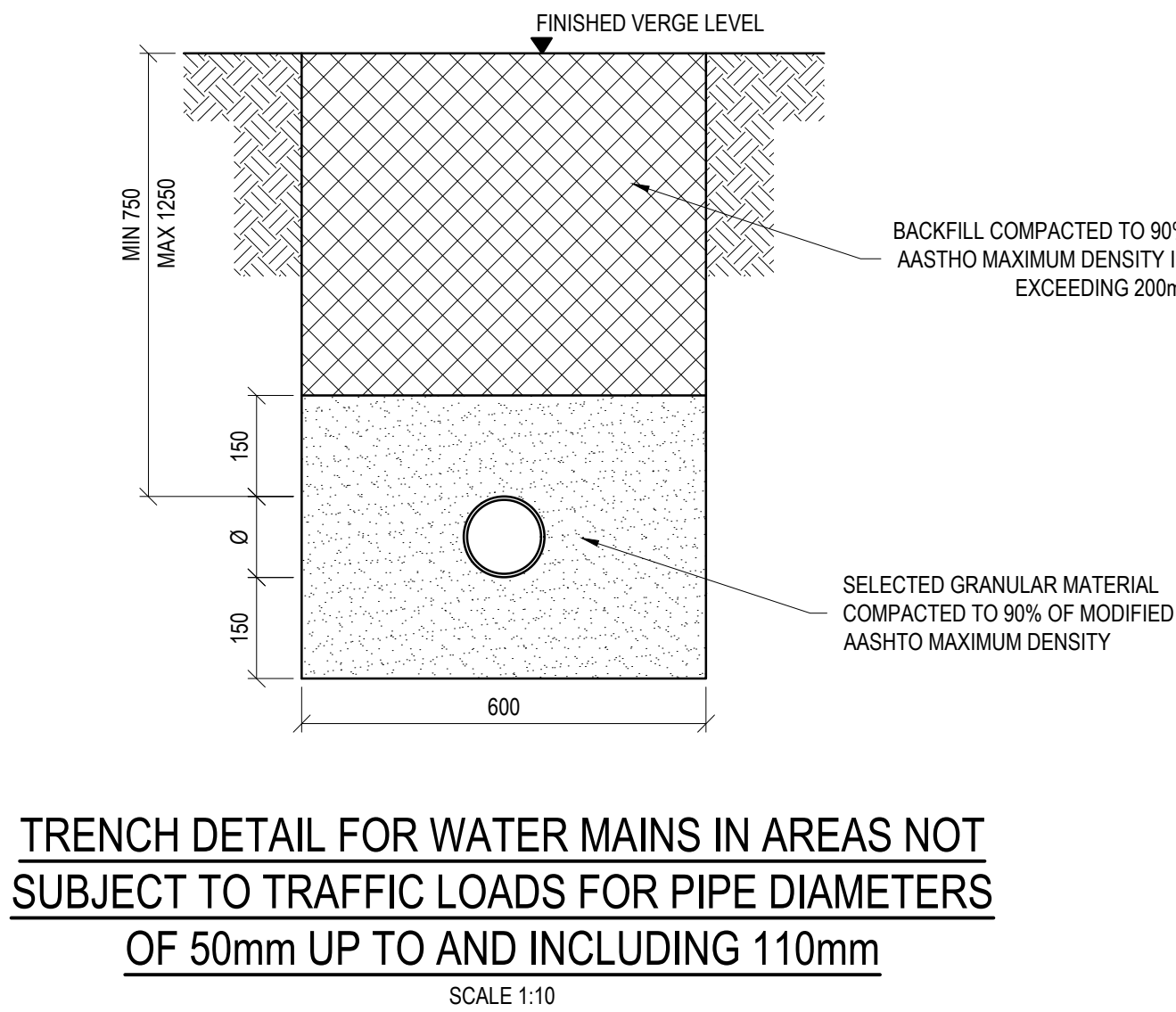
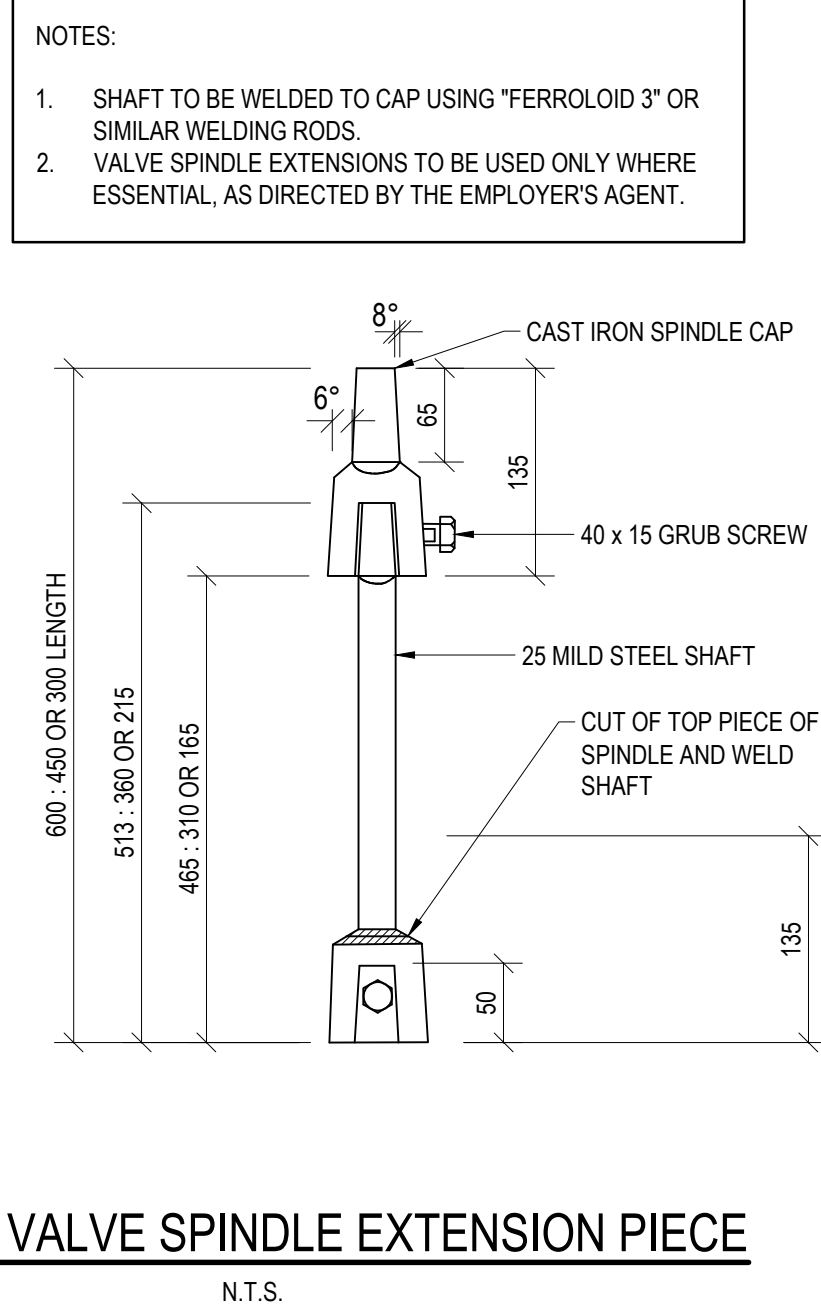
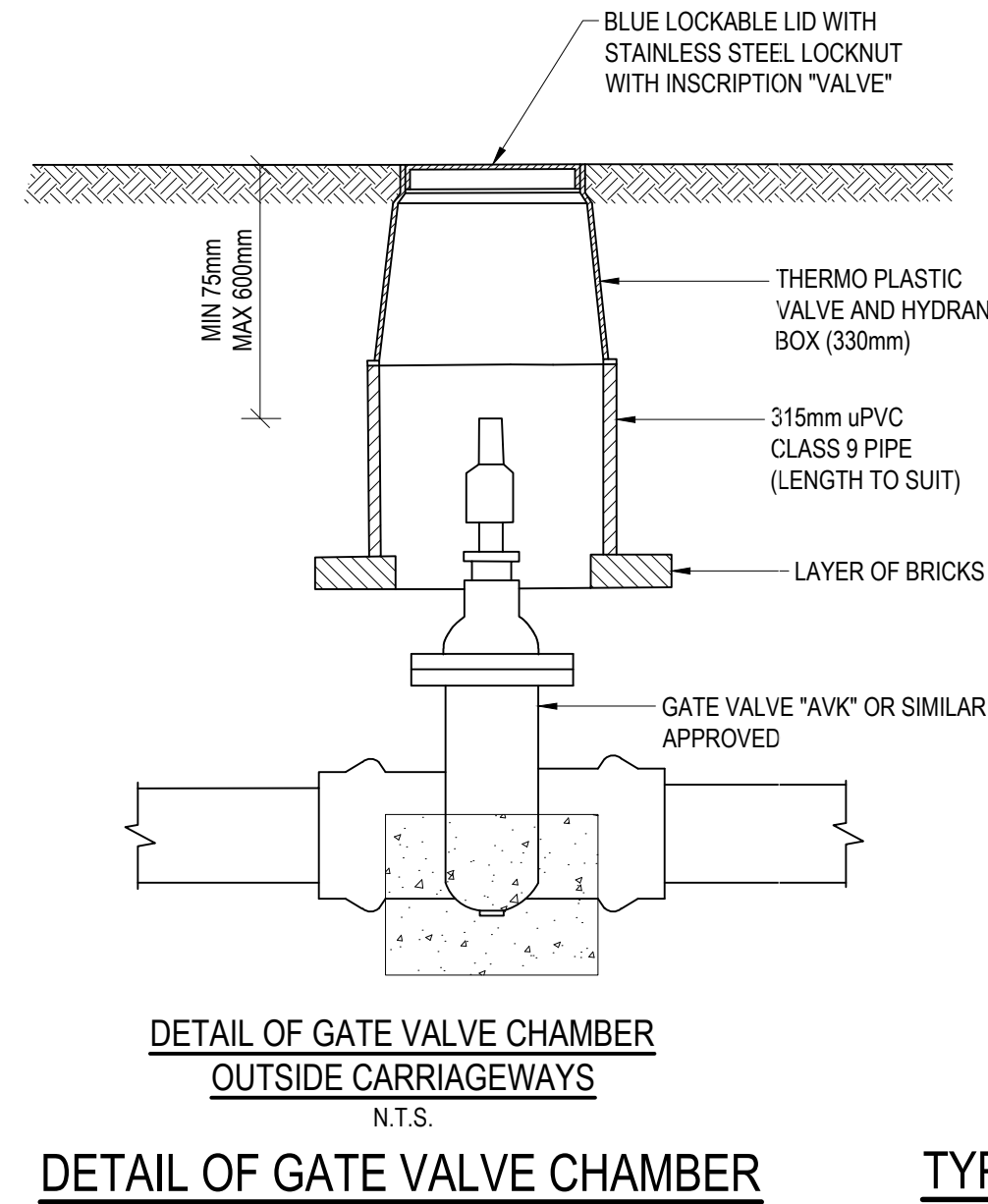
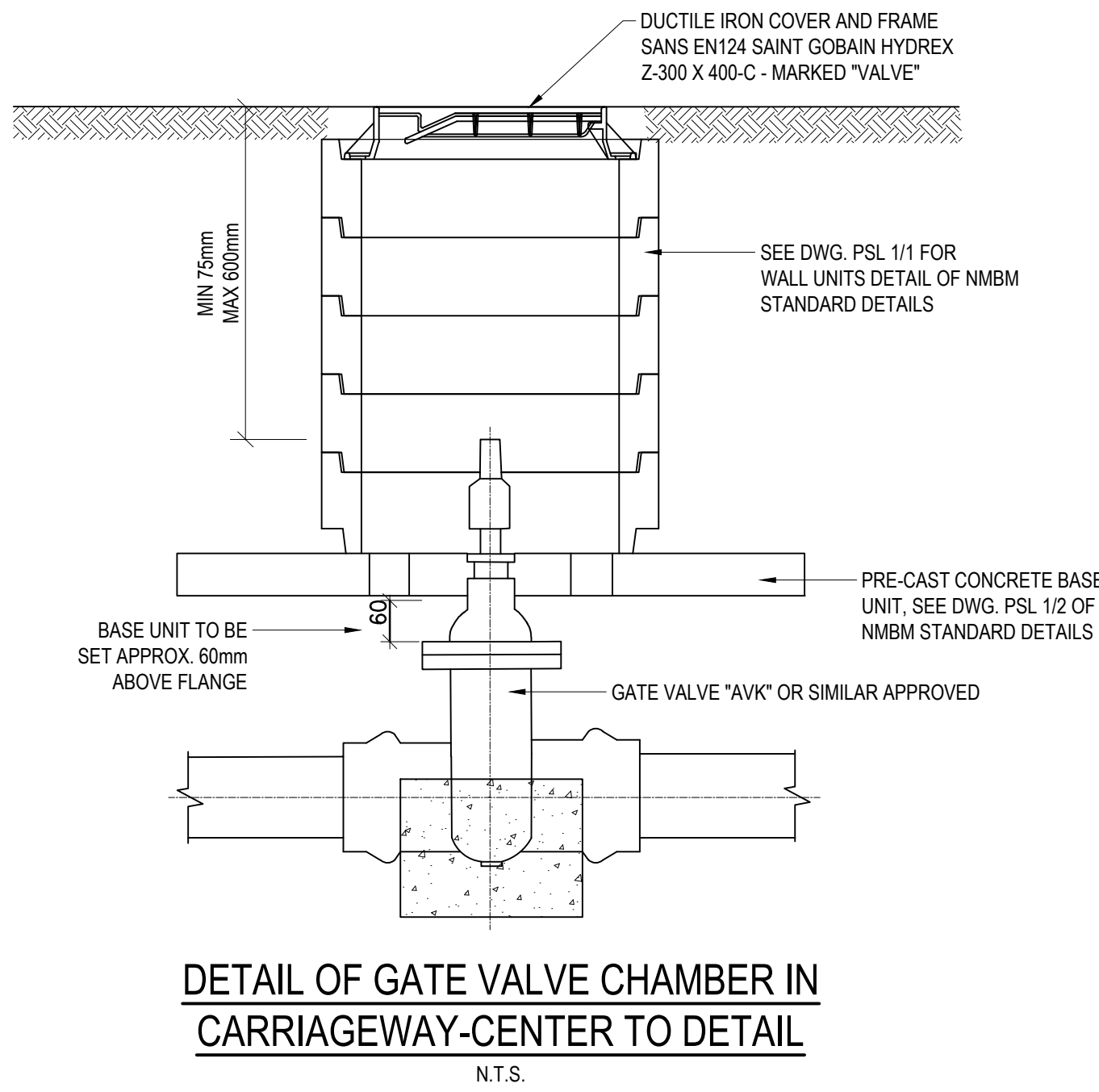
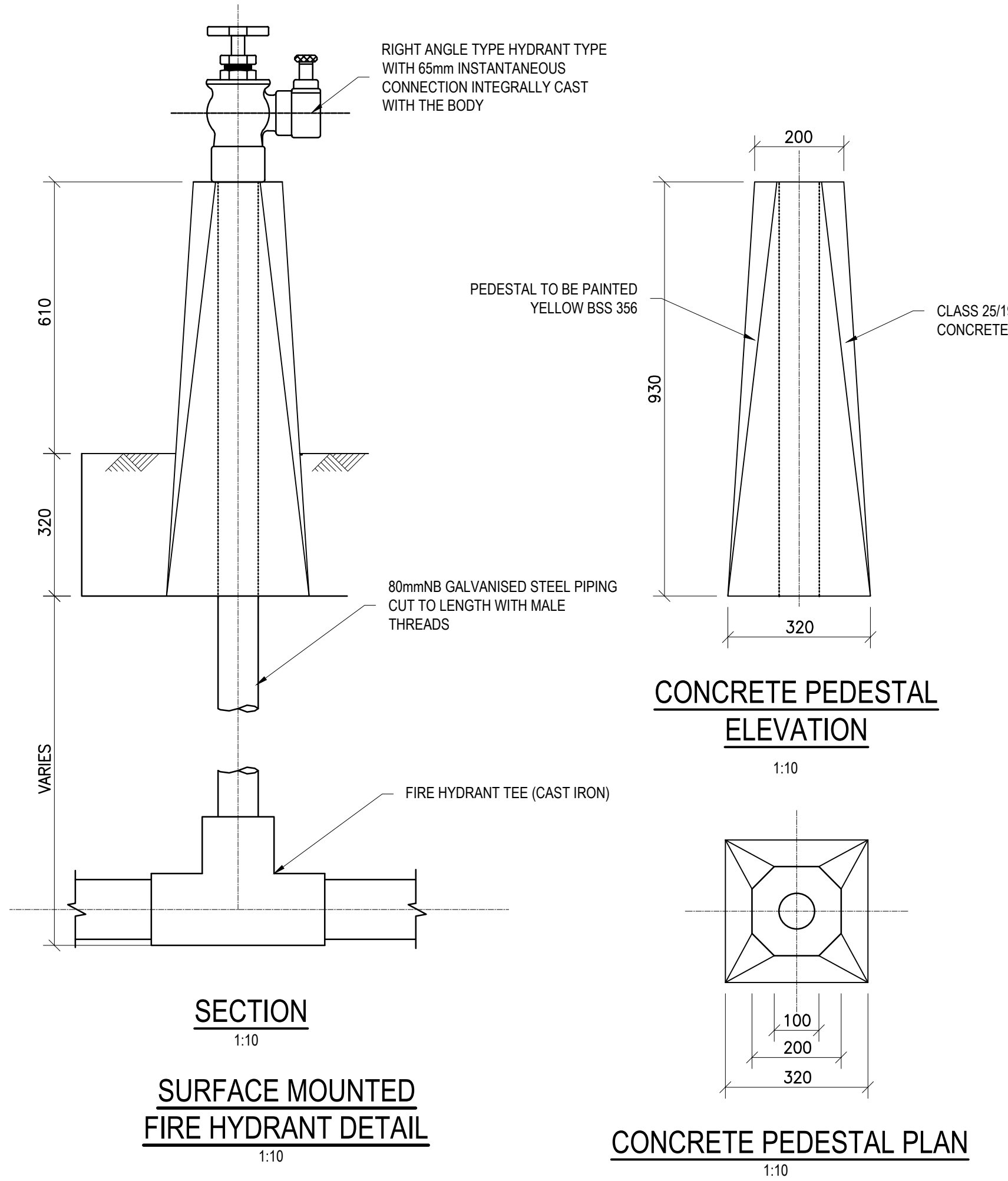
- GATE VALVES SHALL COMPLY WITH SABS 664 AND BE EQUIPED AS FOLLOWS:
  - ANTI CLOCKWISE CLOSING
  - NON-RISING SPINDLE
  - RESILIENT SEAL GATE
  - RATED FOR 1600KPa WORKING PRESSURE

PIPEWORK:

- ALL UNDERGROUND STEEL PIPEWORK, SPECIALS AND FITTINGS SHALL BE WRAPPED WITH DENSO TAPE AFTER APPLYING A LAYER OF DENSO PASTE IN ORDER TO FILL ALL VOIDS.
- ALL FLANGES SHALL BE DRILLED TO SABS 1123/1600/3.
- GASKETS SHALL BE 3mm RUBBER INSERTION GASKETS AND COVER THE FULL FACE OF FLANGE.
- ONLY GRADE 316-A4 STAINLESS STEEL BOLTS, NUTS AND WASHERS SHALL BE USED.
- ALL STEEL PIPES AND SPECIALS UP TO 150mm NB SHALL BE MEDIUM DUTY STEEL PIPES TO SABS 62 AND SHALL BE FLANGED.
- ALL STEEL PIPES AND SPECIALS LARGER THAN 150mm NB SHALL BE GRADE B STEEL PIPES WITH 4,5mm MINIMUM WALL THICKNESS TO SABS 719 AND SHALL BE FLANGED.
- REFER TO PROJECT SPECIFICATIONS FOR CORROSION PROTECTION OF STEEL PIPES SPECIAL FITTINGS AND VALVES.

GENERAL:

- ALL RECORD AND AS BUILT INFORMATION REGARDING EXISTING SERVICES SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF ANY EXCAVATIONS.
- ALL PIPES SHALL BE BEDDED TO SABS 1200 LB SPECIFICATIONS APPLICABLE TO FLEXIBLE PIPES
- TRENCHES SHALL BE BACKFILLED IN 150mm LAYERS AND COMPACTED TO 90% MOD AASHTO MAX DENSITY.
- EXACT POSITION OF CONNECTION POINT TO BE DETERMINED ON SITE IN CONSULTATION WITH THE DEVELOPER / CONSUMER.
- ALL DIMENSIONS IN mm.



TYPICAL TRENCH DETAILS

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**ZUTARI**  
IMPACT. ENGINEERED.



**DISCLAIMER**  
IF CONSTRUCTION DRAWINGS ARE ISSUED UNSIGNED, THE MASTER WITH THE ORIGINAL SIGNATURE OF APPROVAL WILL BE HELD AT THE ZUTARI OFFICE OF THE APPROVER

REV	DATE	REVISION DETAILS	APPROVED
A	02/10/2024	PRELIMINARY DRAWING	S. NEL

SCALE	SIZE
AS SHOWN	A1
DRAWN	L. ZINGANTO
DESIGNED	P. BENDLELA
REVIEWED	C. PUREN

PRELIMINARY NOT FOR CONSTRUCTION	APPROVED
DATE	
Professional Technologist S. NEL	Pt.Tech.Eng 200970125

PROJECT	GILL MARCUS WTW ELEVATED WATER TOWER AND PIPELINE
TITLE	TYPICAL WATER DETAILS SHEET 1 OF 2
DRAWING No.	PROJECT No. A97131 - WBS 02 - TYPE DRG - DISC WR - NUMBER 0005 - REV A