

NOTES:

GATE VALVES:

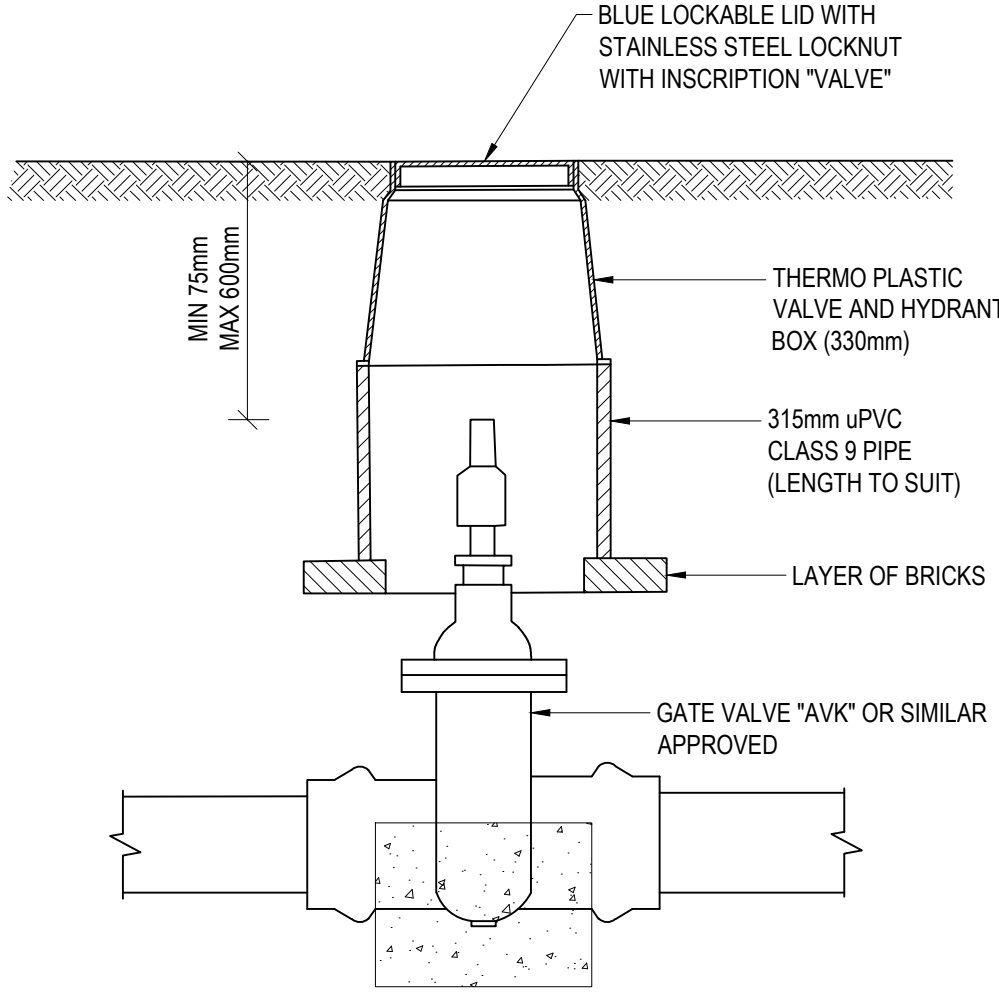
1. GATE VALVES SHALL COMPLY WITH SABS 664 AND BE EQUIPED AS FOLLOWS:
- a. ANTI CLOCKWISE CLOSING
 - b. NON-RIISING SPINDLE
 - c. RESILIANT SEAL GATE
 - d. RATED FOR 1600KPa WORKING PRESSURE

PIPEWORK:

2. 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.
3. ALL FLANGES SHALL BE DRILLED TO SANS 1123 TABLE 1600/3.
4. GASKETS SHALL BE 3mm RUBBER INSERTION GASKETS AND COVER THE FULL FACE OF FLANGE.
5. ONLY GRADE 316-A4 STAINLESS STEEL BOLTS, NUTS AND WASHERS SHALL BE USED.
6. ALL STEEL PIPES AND SPECIALS UP TO 150mm NB SHALL BE MEDIUM DUTY STEEL PIPES TO SABS 62 AND SHALL BE FLANGED.
7. ALL STEEL PIPES AND SPECIALS LARGER THAT 150mm NB SHALL BE GRADE B STEEL PIPES WITH 4,5mm MIIMUM WALL THICKNESS TO SABS 719 AND SHALL BE FLANGED.
8. REFER TO PROJECT SPECIFICATIONS FOR CORROSION PROTECTION OF STEEL PIPES SPECIAL FITTINGS AND VALVES.

GENERAL:

9. ALL RECORD AND AS BUILT INFORMATION REGARDING EXISTING SERVICES SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF ANY EXCAVATIONS.
10. ALL PIPES SHALL BE BEDDED TO SABS 1200 LB SPECIFICATIONS APPLICABLE TO FLEXIBLE PIPES
11. TRENCHES SHALL BE BACKFILLED IN 150mm LAYERS AND COMPACTED TO 90% MOD AASHTO MAX DENSITY.
12. EXACT POSITION OF CONNECTION POINT TO BE DETERMINED ON SITE IN CONSULTATION WITH THE DEVELOPER / CONSUMER.
13. ALL DIMENSIONS IN mm.
14. TRENCH DETAIL FOR WATER MAINS IN AREAS WITH WATER INGRESS TO BE AS DIRECTED BY THE EMPLOYERS AGENT.

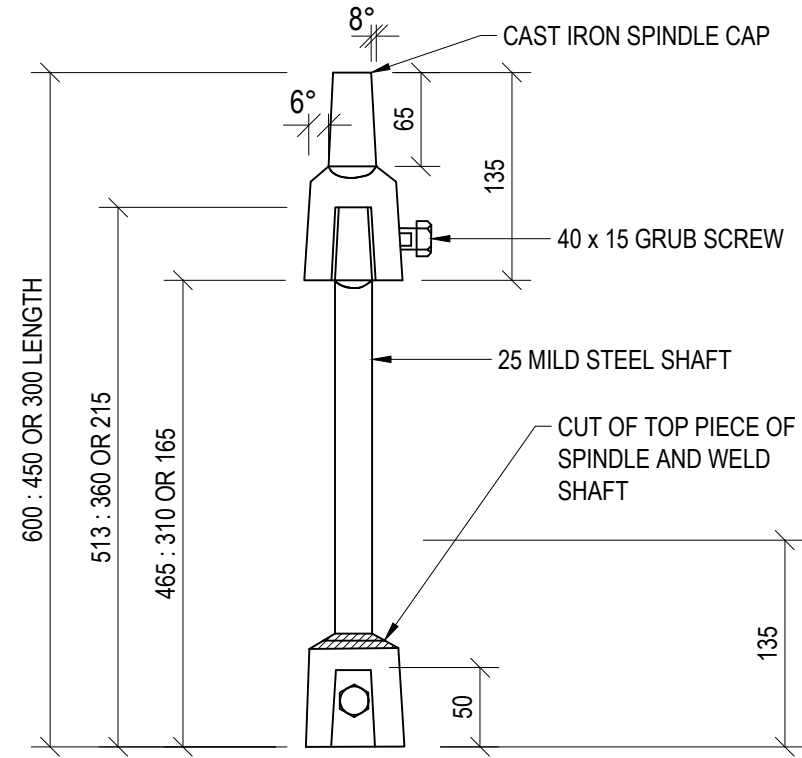


DETAIL OF GATE VALVE CHAMBER
OUTSIDE CARRIAGEWAYS
N.T.S.

DETAIL OF GATE VALVE CHAMBER

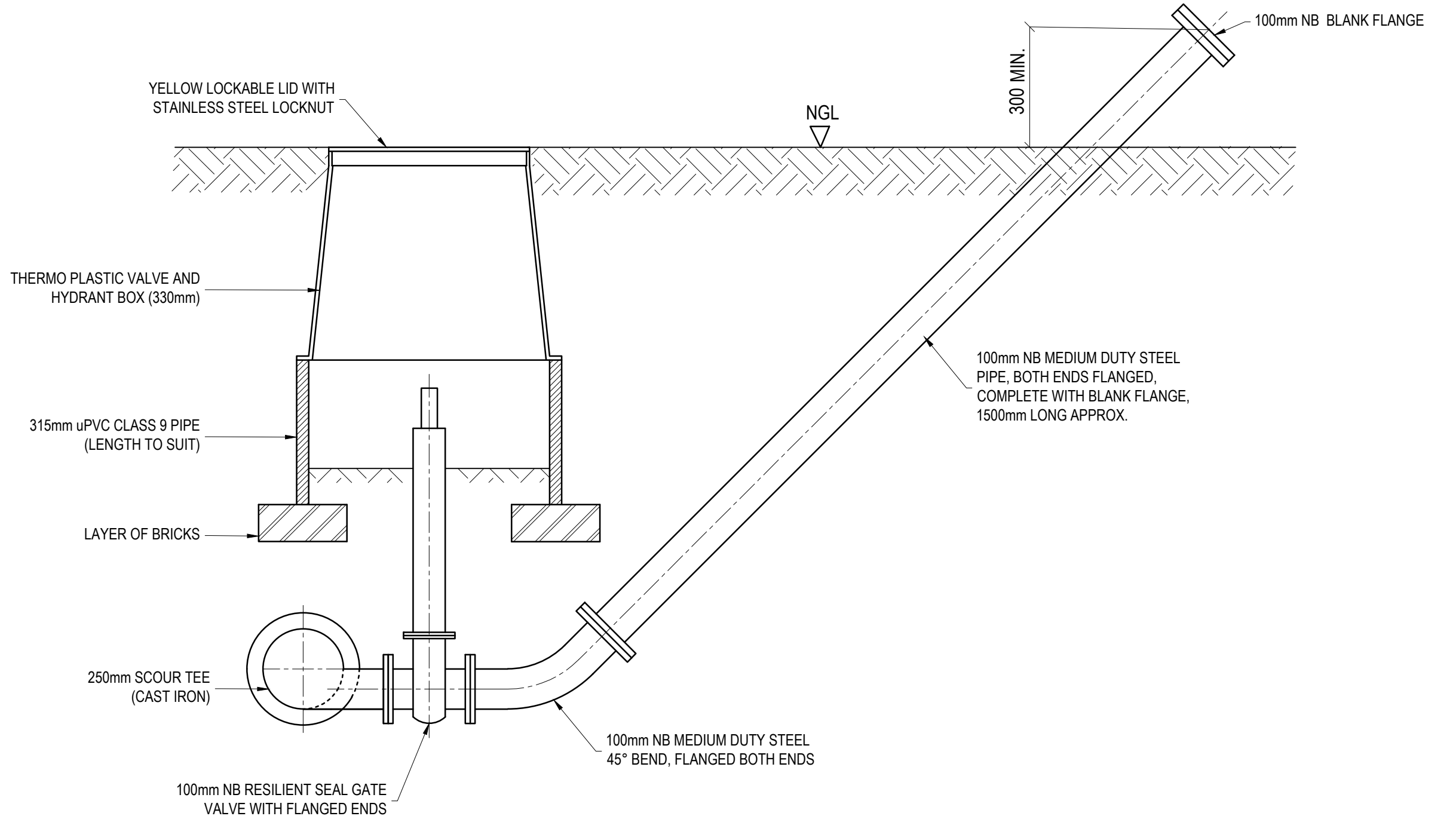
NOTES:

1. SHAFT TO BE WELDED TO CAP USING "FERROLOID 3" OR SIMILAR WELDING RODS.
2. VALVE SPINDLE EXTENSIONS TO BE USED ONLY WHERE ESSENTIAL, AS DIRECTED BY THE EMPLOYER'S AGENT.



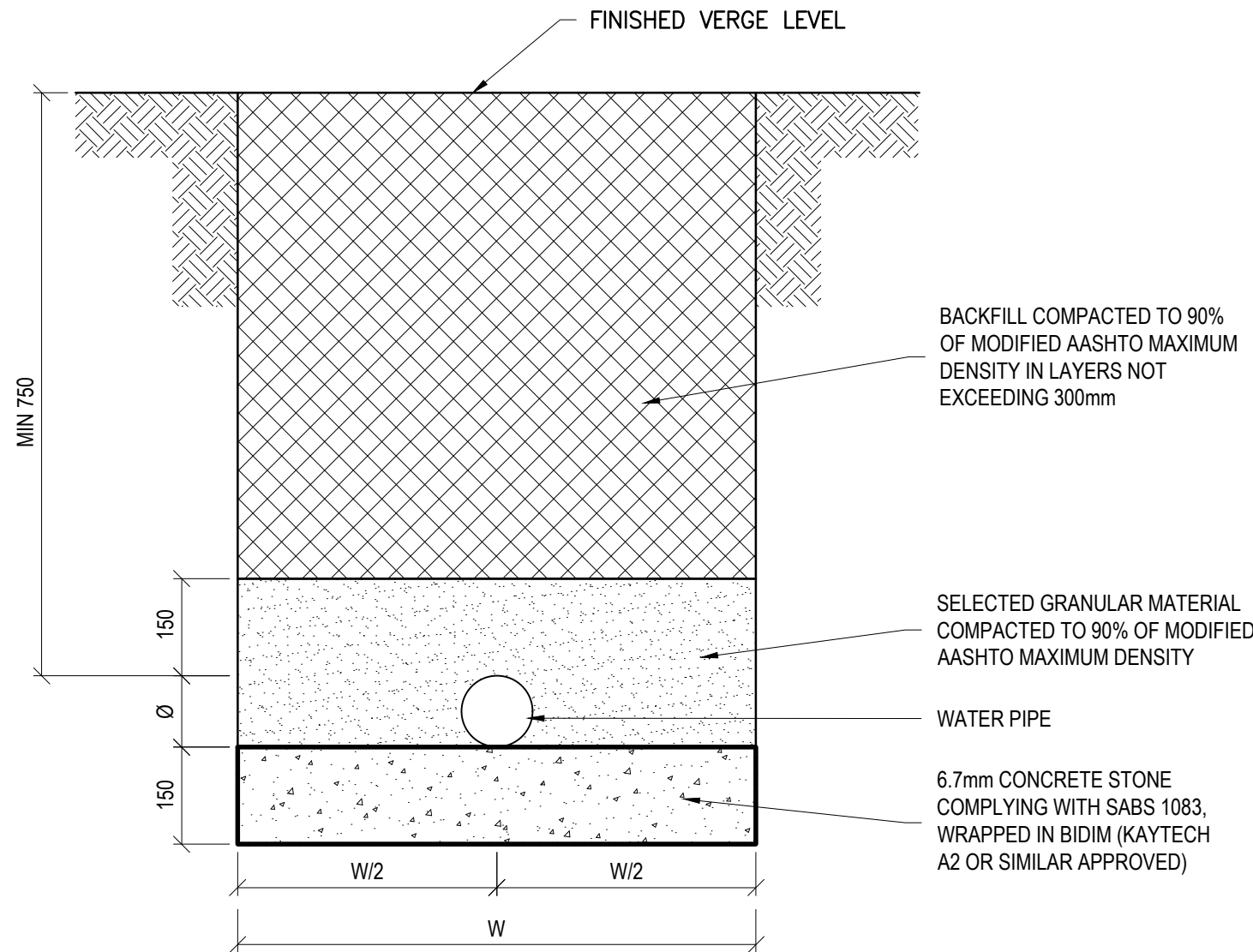
TYPICAL VALVE SPINDLE EXTENSION PIECE

N.T.S.

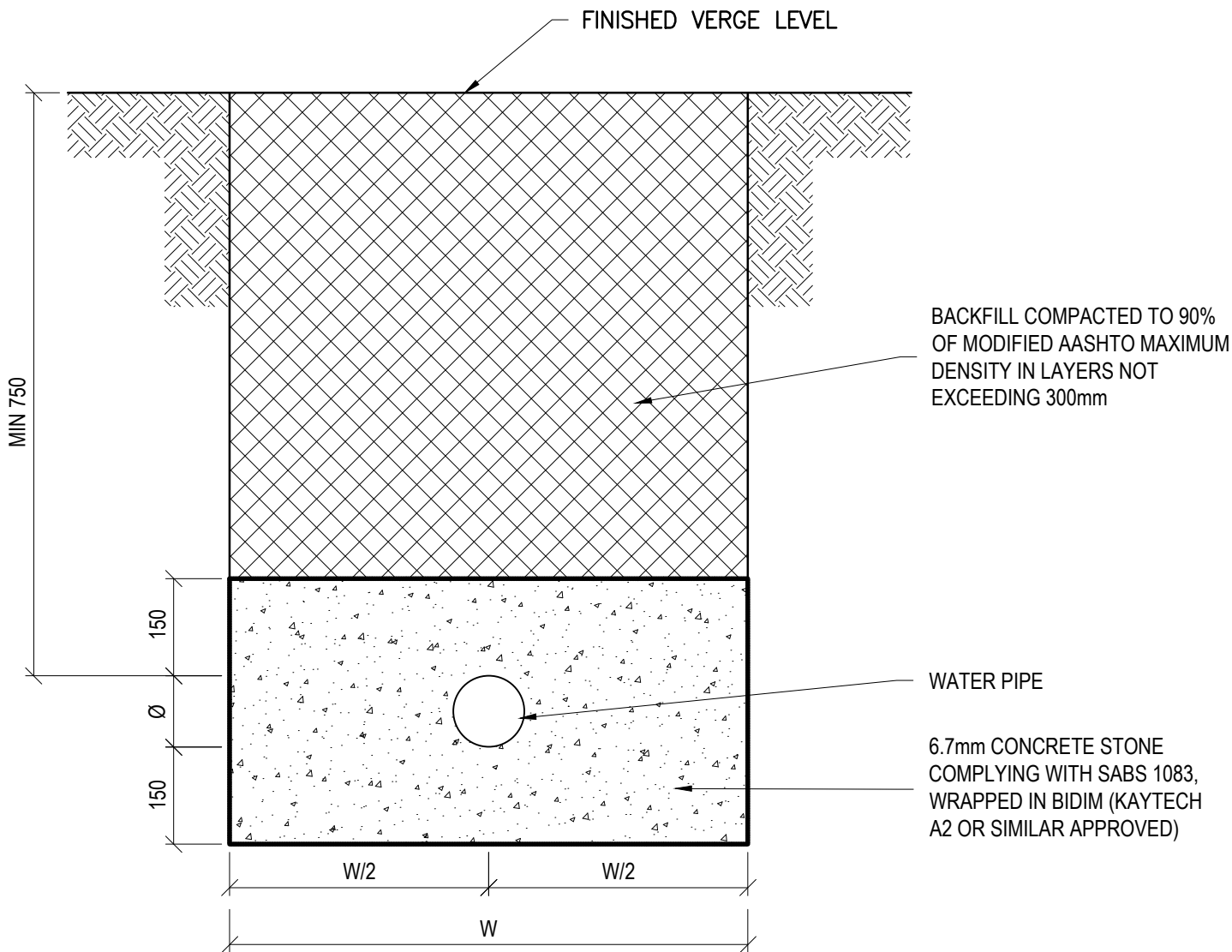


TYPICAL DETAIL OF SCOUR VALVE AND CHAMBER

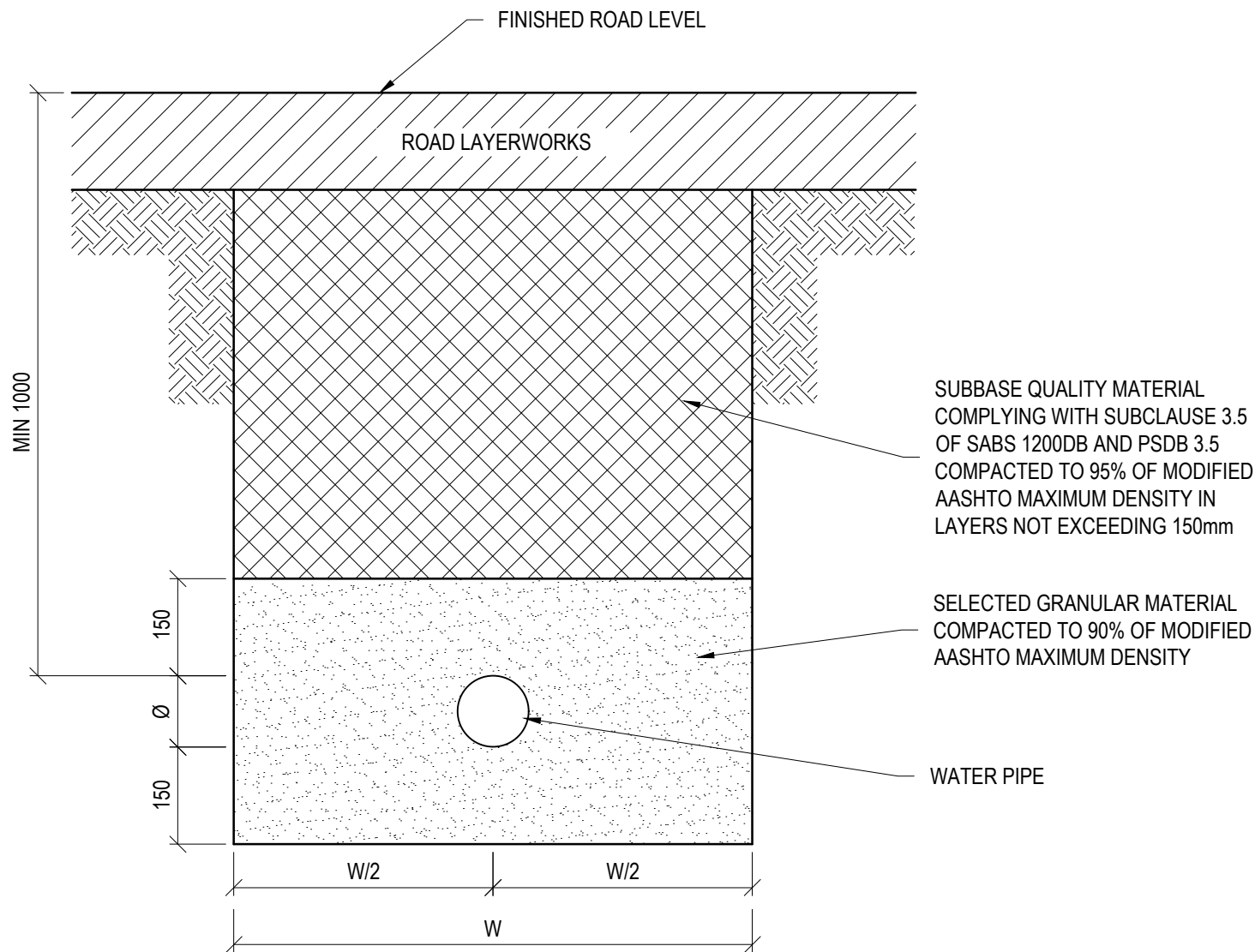
N.T.S.



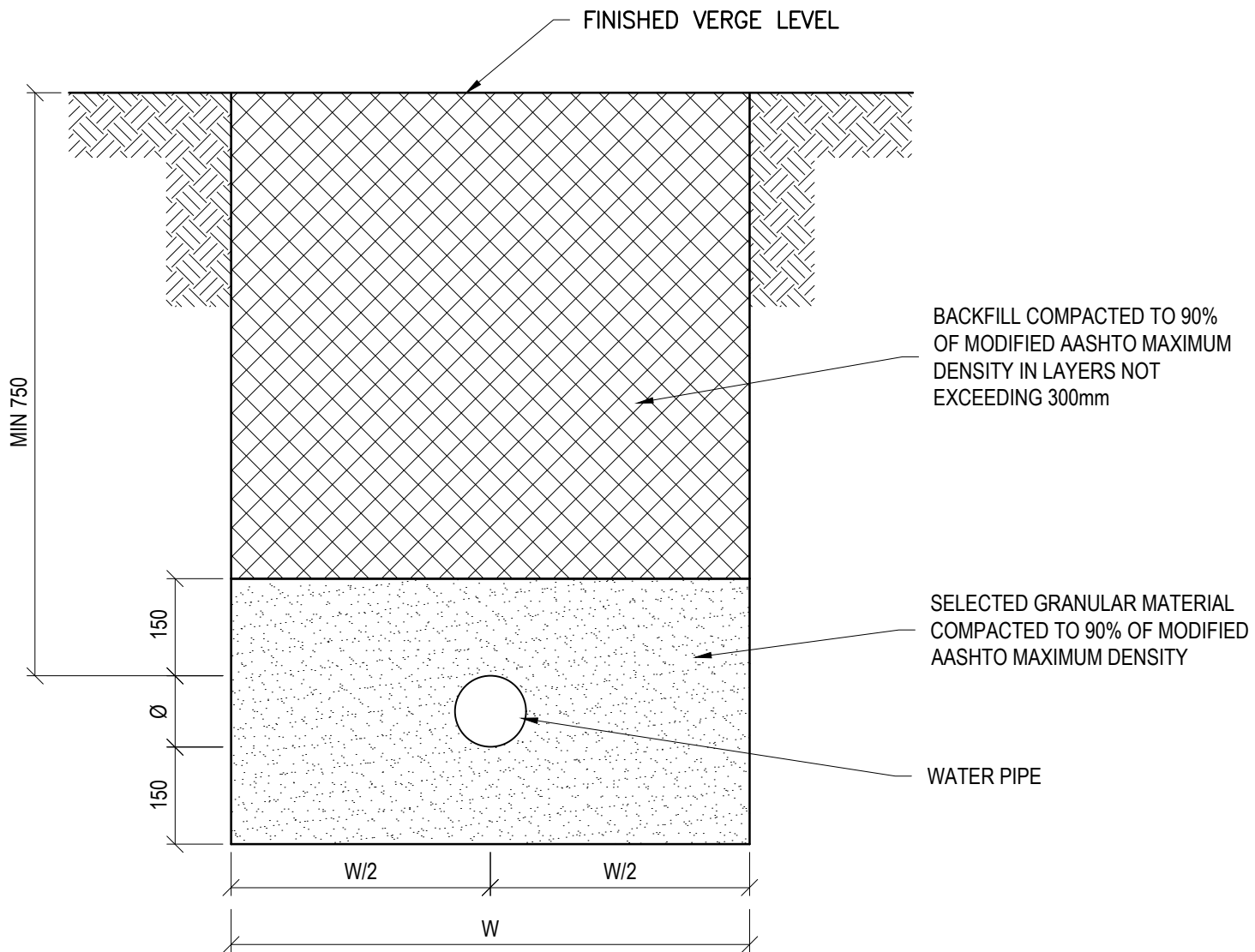
TYPICAL TRENCH DETAIL FOR WATER MAINS
IN AREAS WITH WATER INGRESS
SCALE 1:10



OPTION 2: TRENCH DETAIL FOR WATER MAINS
IN AREAS WITH WATER INGRESS
SCALE 1:10



TYPICAL TRENCH DETAIL TO ACCOMMODATE WATER PIPE
IN AREAS SUBJECT TO TRAFFIC LOADS
NTS



TYPICAL TRENCH DETAIL TO ACCOMMODATE WATER PIPE
IN AREAS NOT SUBJECTED TO TRAFFIC
NTS

TRENCH WIDTH (W) FOR PIPES

PIPES	WIDTH (W)
UP TO 250mm	800mm
250mm TO 315mm	1000mm

TYPICAL TRENCH DETAIL FOR WATER MAINS UP TO 250mm
DIAMETER IN AREAS WITH WATER INGRESS
(REFER NOTE 14)

TYPICAL TRENCH DETAILS

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

TO

DATE

22/05/24

REVISION DETAILS

ISSUE FOR TENDER

APPROVED

J vd MESCHT

SCALE

AS SHOWN

SIZE

A1

FOR TENDER
NOT FOR CONSTRUCTION

DRAWN

P BENDLELA

DESIGNED

J vd MESCHT

REVIEWED

J vd MESCHT

Professional Engineer
J vd MESCHT

Pr Eng
9202237

PROJECT

ST FRANCIS BAY GROUNDWATER SUPPLY

TITLE

TYPICAL WATER DETAILS
SHEET 1 OF 3

DRAWING No.

PROJECT No.

500748

WBS

PH05

TYPE

DRG

DISC

WR

NUMBER

0003

REV

T0