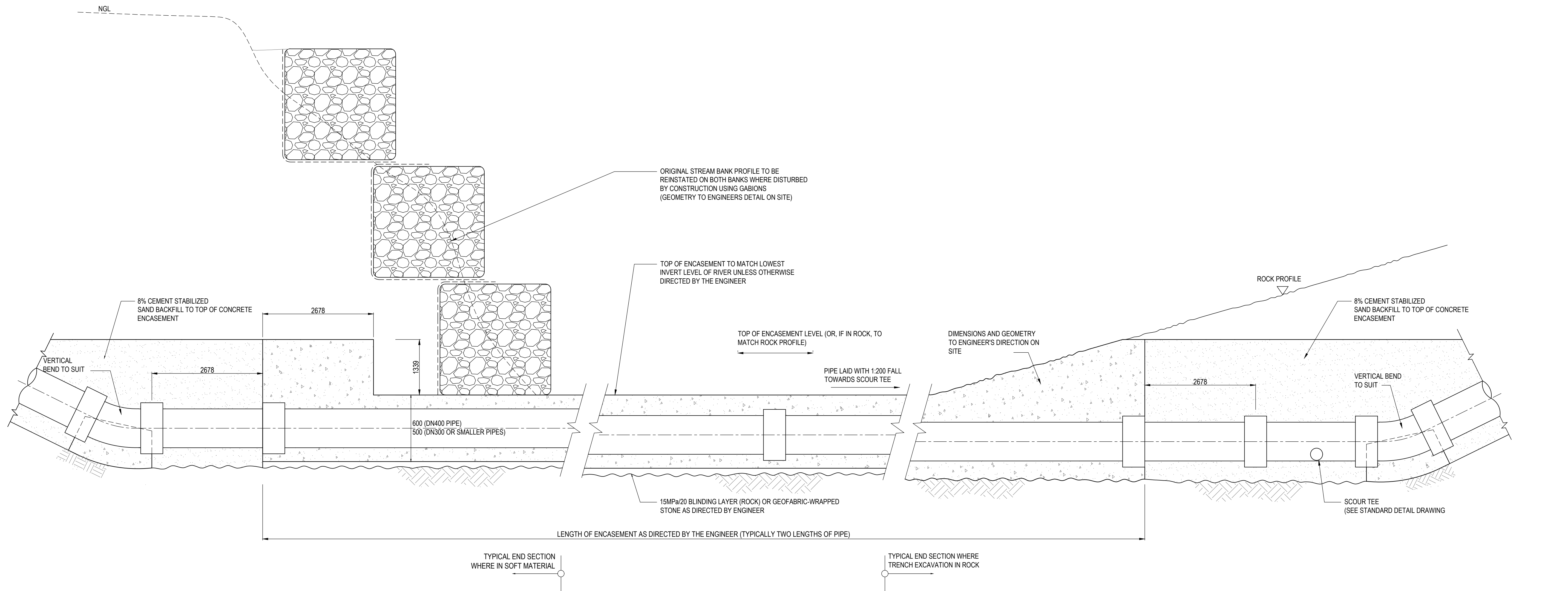
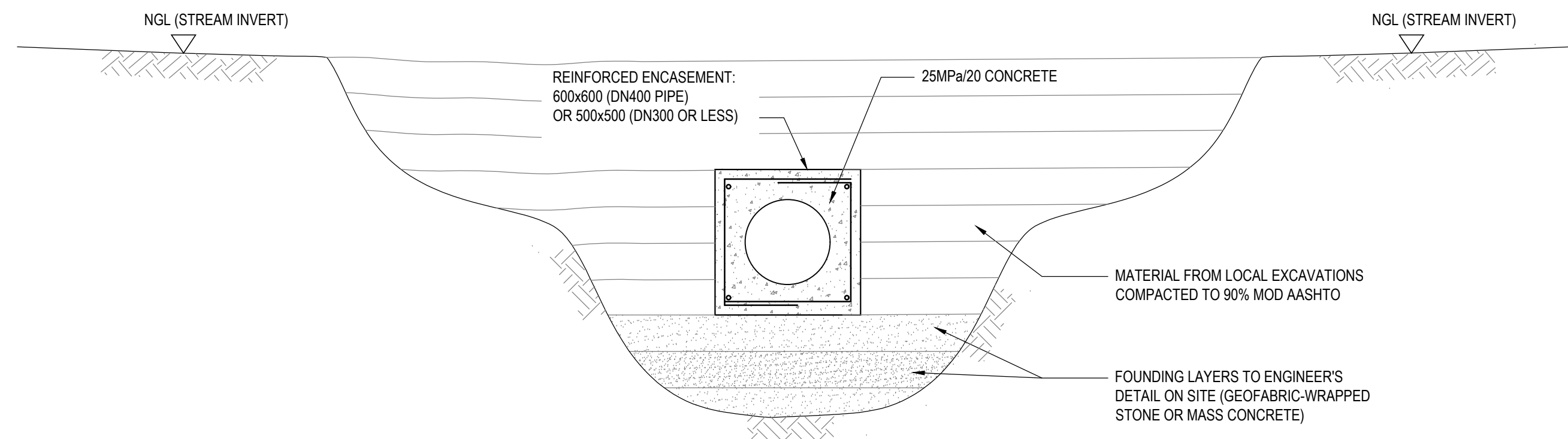
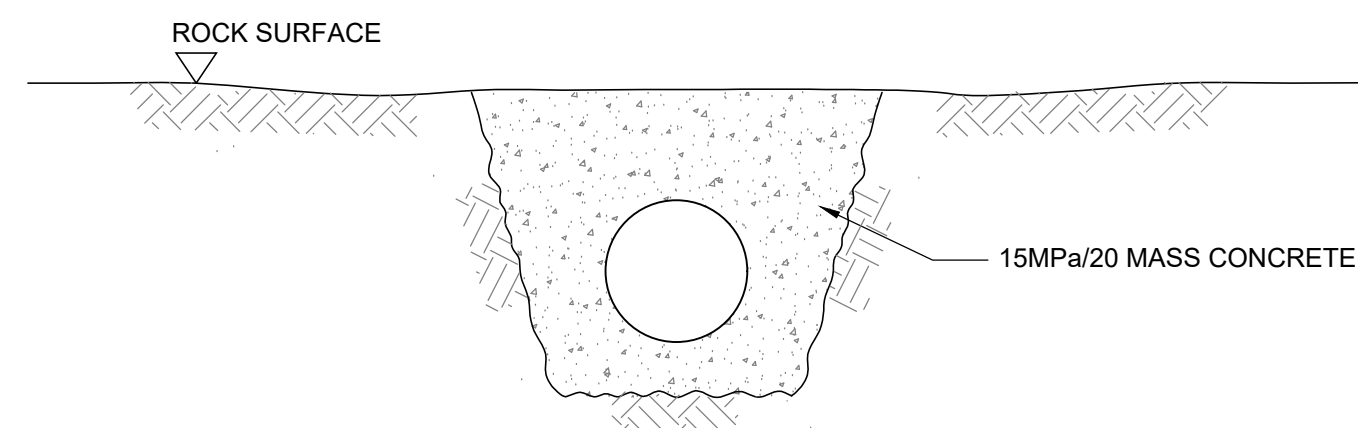




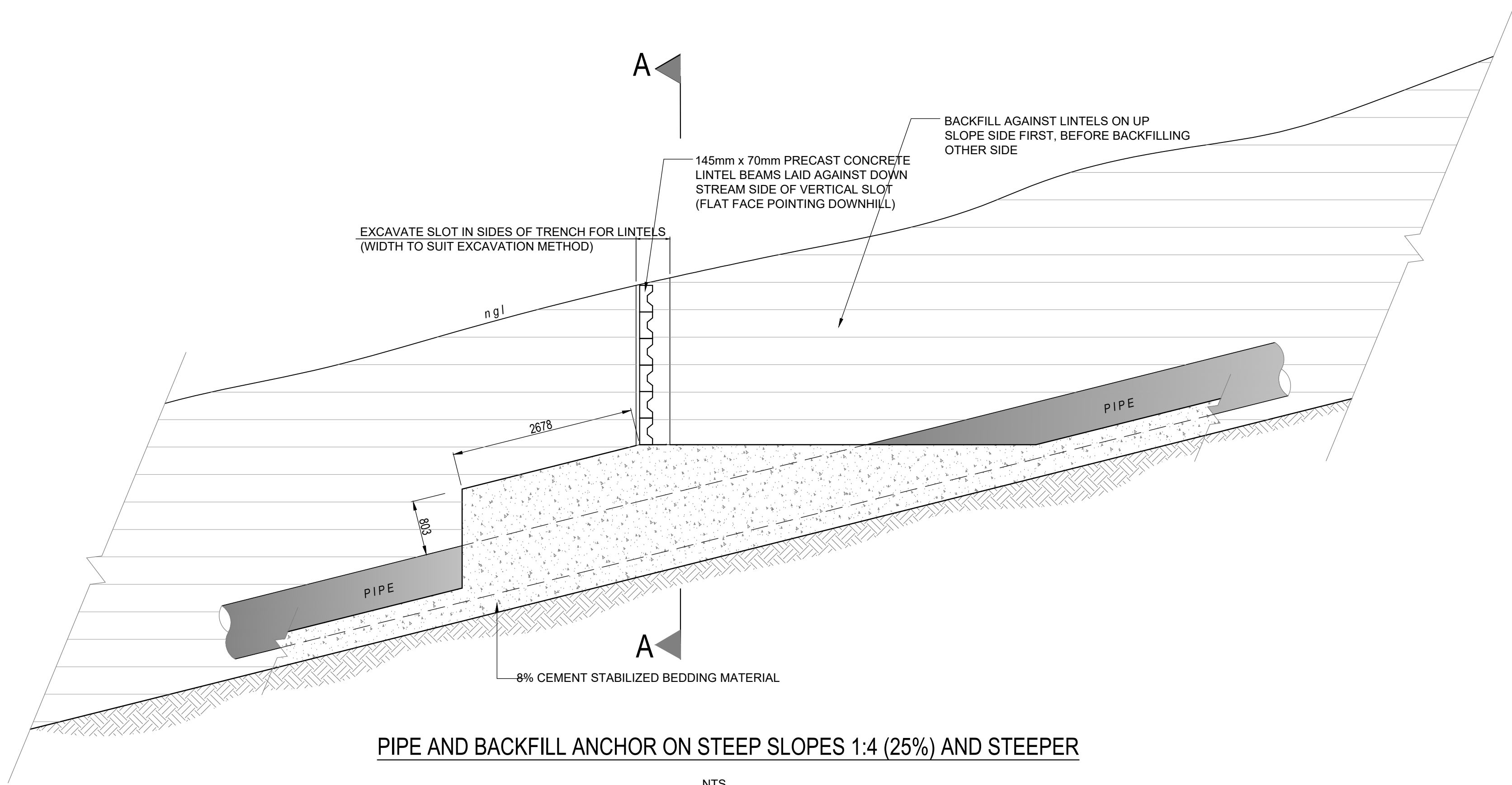
TYPICAL SECTION OF PIPE ENCASEMENT THROUGH STREAM CROSSINGS



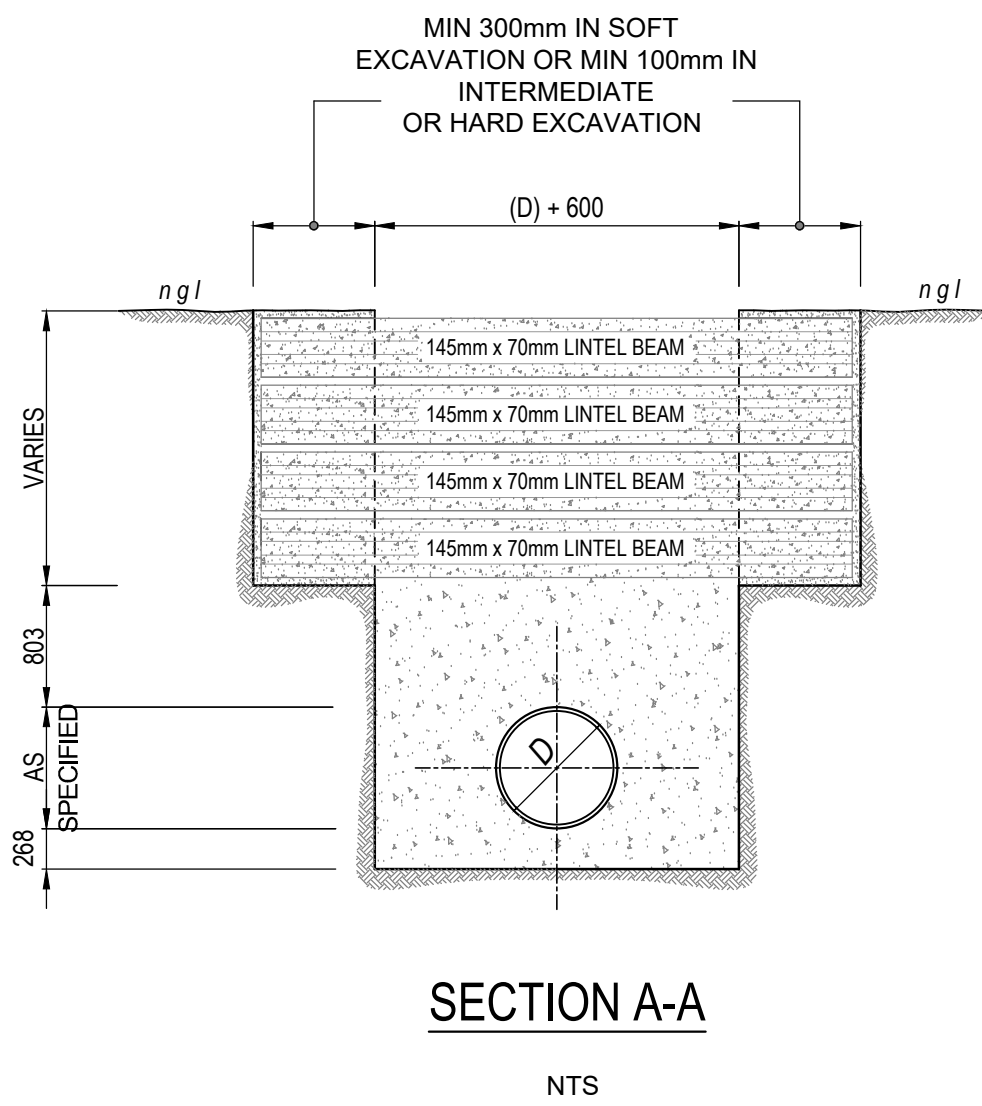
TYPICAL SECTION ENCASEMENT IN SOFT MATERIAL



TYPICAL SECTION OF ENCASEMENT IN ROCK



PIPE AND BACKFILL ANCHOR ON STEEP SLOPES 1:4 (25%) AND STEEPER



SECTION A-A

NTS

GENERAL NOTES

- Do not scale this drawing. Work to figure by dimensions, only. Any discrepancies to be brought to the Engineers attention prior to implementation of any work.
- Minimum concrete cube strength @ 28 days for bedding layer is to be 15MPa minimum concrete cube strength @ 28 days for walls, floor slabs, roof slabs, columns, foundations and external non-water retaining structure is to be 30MPa.
- Concrete cover specifications are to be in accordance with the contract document design specifications.
- Minimum cover to reinforcing all concrete members 25mm top & bottom. PWJ - partial wall vertical joint. PFJ - partial floor joint.
- Engineer to inspect all reinforcement prior to casting concrete.
- 20x20mm chamfer on all exposed concrete edges unless otherwise noted.
- All steel flanges to S.A.B.S. 1123/77 table 1000/3 unless otherwise indicated.
- Brick work:
 - All exposed external brickwork satin red facebrick.
 - All internal brickwork to be clay commons, plastered and painted acrylic pva white.
 - Outer face of internal brickwork skin to be bagged and bitumen painted.
 - Brickforce at windowsill level and wall plate level all around building.
 - N.B : 4 coarse brickforce above windows and doors.
 - DPC at floor and windowsill levels.
- Plaster:
 - Cement plaster 12mm thick to internal vertical brick walls.
- Painting:
 - Prepare and apply two coats bitumen paint on brick skin including working around wire ties.
 - Prepare and apply one coat plaster primer and two coats approved pva acrylic paint to internal walls, fibre cement fascia and barge board.
 - Clean with spirits of salts solution and apply two coats silicone-based brick dressing in strict accordance with the manufacturer's instructions to external face brick walling.
 - Prepare and apply one coat plaster primer and one coat universal undercoat and one coat approved eggshell enamel paint on fibre cement sills.
 - Eth and apply one coat zinc primer, one undercoat and two finishing coats approved universal gloss enamel paint on steel sashes, frames, and burglar bars.
 - Prepare, stop and apply two coats approved varnish on hardwood doors and frames.
 - prepare, knot prime stop, and apply one coat pink wood primer, one undercoat and two coats approved universal eggshell enamel paint on general surfaces of eaves timbers.
- All steel pipe specials to be rilsan lined and coated to specifications.
- All buried steel pipework & bolted connections to be 'denso' wrapped to specifications.
- All puddle pipes to be tape wrapped to specifications.
- All bolts & nuts to be hot dip galvanised, unless otherwise indicated.
- All construction activities shall be executed to the Engineer's approval.
- Setting out & final positioning of all steel pipework, including puddle pipes, to be confirmed by contractor on site, prior to fabrication and installation.

FUNDER:



DEPARTMENT OF WATER AND SANITATION

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DRAWING REVISIONS

REV	DATE	DRAWN	CHECKED	DESCRIPTION

PROJECT NAME:

WESTERN HIGHVELD BULK WATER SCHEME

DRAWING TITLE:

STREAM CROSSING STANDARD DETAIL

RESPONSIBLE PERSONNEL		SIGNATURE	DATE
DESIGNED	S NGCOBO		
DRAWN	L JIJANA		
CHECKED	S MKHIZE		
APPROVED	AM NDLOVU		
SCALE	AS SHOWN		

APPROVED : CLIENT

SIGNATURE		DATE	
PROJECT NUMBER		DRAWING NUMBER	
VU-WTR-21-006		305	
STAGE	SHEET SIZE	SHEET No.	REVISION
TENDER	A0	1 OF 1	0
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FOR TENDER