



- GENERAL NOTES:**
- THIS DESIGN WAS ENGINEERED BY:
SEA PROJECTS AND ENGINEERING (PTY) LTD
- ALL MATERIALS AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SANS PROJECT SPECIFICATIONS.
 - ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.
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 - ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR MUNICIPAL CIVIL ENGINEERING WORKS.
 - FINAL POSITION TO BE DETERMINED ON SITE.
 - ALL CONCRETE MIXES TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
 - EXCAVATIONS TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
 - ALL MASS CONCRETE TO BE 15MPa/19 UNLESS STATED OTHERWISE BY THE ENGINEER.
 - BENCHING SHALL BE FINISHED WITH A 20mm DOLOMITIC LAYER PLACED WHILE CONCRETE IS STILL GREEN AND STEEL FLOAT TO SMOOTH FINISHED.
 - BACKFILL TO BE DONE WITH G5 MATERIAL COMPACTED IN LAYERS OF 150mm THICK TO 95% MOD RASBTO AT OMC.
 - CHANNELING MUST BE BUILT WITH GLAZED EARTHENWARE OR FIBRE CEMENT CHANNEL RECESSED INTO CONCRETE FOUNDATION.
 - EXCAVATION PRIOR TO TRENCH EXCAVATIONS AND CONFIRM LEVELS.
 - COMPACTION OF BEDDING MATERIAL AROUND PIPE TO BE DONE WITH SPECIAL CARE.
 - ALL PIPES TO BE PRESSURE TESTED TESTED AFTER COMPLETION.

LEGEND

▲ Benchmark	⊕ Sign Post	▒ Concrete Paving	— Culvert
⊕ Electric Pole	⊕ Steel Pole	▒ Brick Paving	— Drain
⊕ Sign Board	⊕ Staywire	▒ Tarmac Road	— Top of pipe
⊕ Fibre Manhole	⊕ Water Valve	▒ Dust Road	— Fence
⊕ Lamp Post	⊕ Valve Manhole	▒ Driveway	— Wall
⊕ Fire Hydrant	⊕ Solard	▒ Railway	— Bottom Kerb
⊕ Tree	⊕ Wooden Pole	▒ Gate	— Top Kerb
⊕ Water Meter	⊕ Water Tank	▒ Gate	— Minor Contour
⊕ Sewer Manhole	⊕ Invert Level	⊕ Electric Box	— Major Contour
⊕ Unknown Manhole	⊕ Stormwater Manhole		

DESIGN COORDINATOR APPROVAL:

SIGNATURE _____ DATE _____

PROJECT MANAGER APPROVAL:

SIGNATURE _____ DATE _____

CLIENT APPROVAL:

SIGNATURE _____ DATE _____

REVISIONS

NO.	DATE	DESCRIPTION	BY:	CHK:	APPR:
A	28/05/2026	ISSUED FOR TENDER	C.K.	M.R.	S.N.

DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:	SCALE:
M.R	C.K	M.R	S.N	29/05/2026	N.T.S

CLIENT:

MAQUASSI HILLS LOCAL MUNICIPALITY
Private Bag X3
19 Krugger Street
Volmaransstad
2630

TEL: (018) 596 1068
FAX: (018) 596 1555
WEB: www.maquassihills.co.za

PROJECT:

REPLACEMENT OF ASBESTOS CEMENT BULK AND RETICULATION PIPELINES

DRAWING TITLE:

MAKWASSI HILL - BULK PIPELINE:
DN250 BULK PIPELINE LONGSECTION SHEET 4

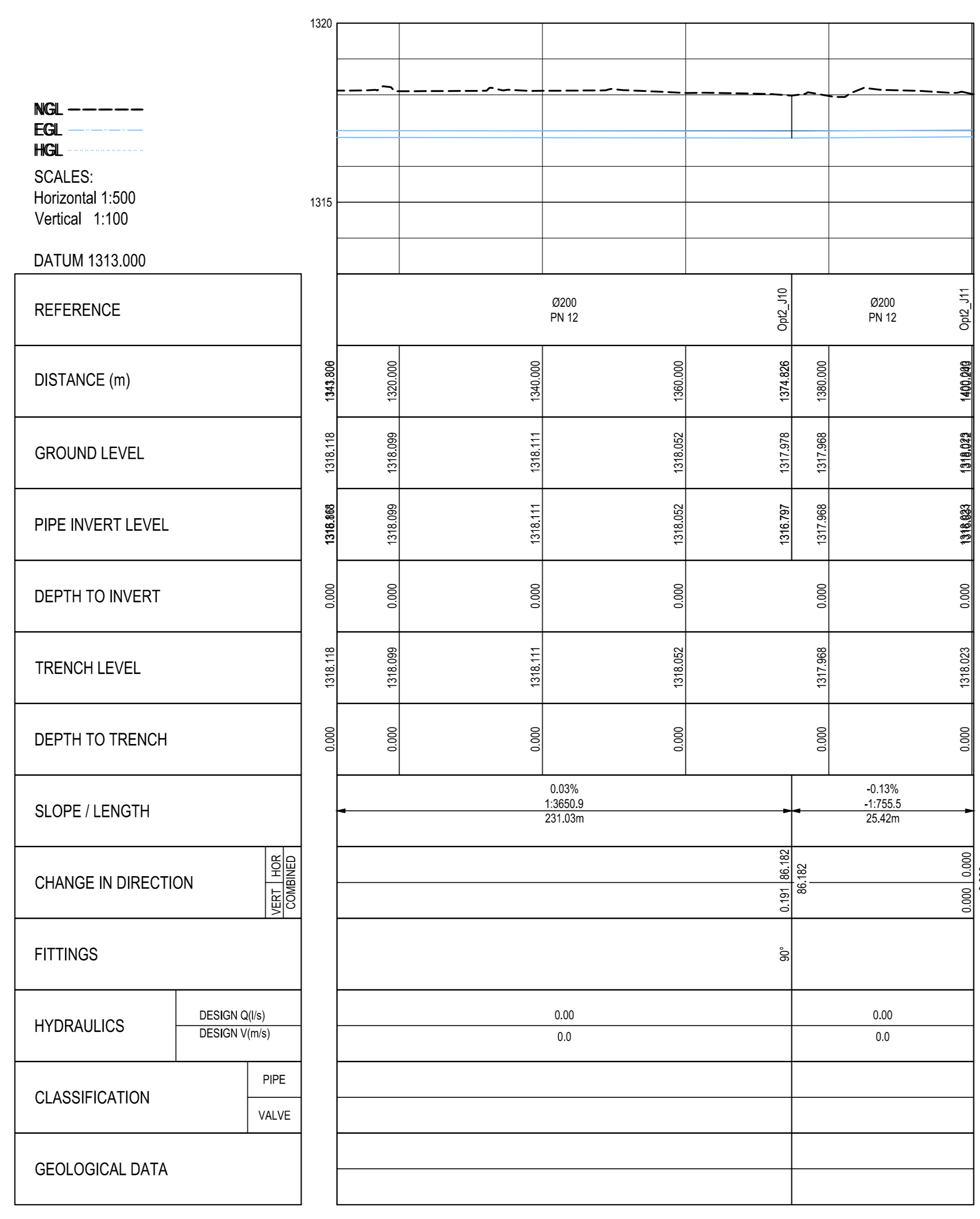
CONSULTANTS:

SEA PROJECTS AND ENGINEERING

7107 Rosewood Road
Broadacres
Gauteng
2169

TEL NO: +27(0) 10 143 1687
EMAIL: seane@seaprojects.co.za

SIZE:	PROJECT NO.:	DRAWING NO.:	SHEET NO.:	REVISION:
A0	20241003	DRG-CIV-006	04	A



LONGSECTION OPTION 2 PIPE LINE ROUTE
FROM 1311.306 TO 1400.243