



CHAINAGE (m)	GROUND LEVEL (m)	INVERT LEVEL (m)	PIPE DEPTH	PIPE SLOPE	PIPE SIZE AND TYPE	PIPE FITTING
3+600	1805.744	1804.847	0.896		DN250mm DIAMETER STEEL PIPELINE PN2.5	
3+620	1804.797			-1:16.4		
3+640	1804.115					
3+660	1802.667					
3+680	1801.528					
3+700	1800.240					
3+720	1799.187					
3+740	1797.755					
3+760	1796.585	1795.085	1.500	-1:33.5		
3+780	1795.791					
3+800	1795.090	1793.890	1.200	-1:10.4		
3+820	1793.535					
3+840	1791.533					
3+860	1789.576					
3+880	1787.666	1786.166	1.500	-1:9.0		
3+900	1785.312					
3+920	1783.254					
3+940	1780.860					
3+960	1778.647					
3+980	1776.427	1775.000	1.427	-1:7.9		
4+000	1773.791					
4+020	1770.869					
4+040	1768.513					
4+060	1766.319	1764.819	1.500	-1:22.4		
4+080	1764.850					
4+100	1764.284					
4+120	1763.674	1762.139	1.536	-1:222.4		
4+140	1763.383					
4+160	1762.915					
4+180	1763.369	1761.869	1.500	-1:19.1		
4+200	1764.202					
4+218	1765.363	1763.863	1.500			

LINE B1 PROFILE
 SCALES: HOR. 1:2000 & VER. 1:200

NOTES

1. ALL LEVELS ARE IN METERS ABOVE ORDINARY DATUM.
2. PIPES ARE TO BE LAID TO EVEN GRADIENTS WITH A MINIMUM COVER OF 1.0M. WHERE COVER IS LESS THAN THIS, PIPE TO BE SURROUNDED WITH CONCRETE.
3. ALL BENDS ARE HORIZONTAL UNLESS OTHERWISE STATED.
4. LOCATION OF AIR VALVES, WASHOUTS, BENDS AND OTHER FITTINGS AS SHOWN UNLESS OTHERWISE DIRECTED BY THE ENGINEER ON SITE.
5. EXACT SETTING OUT OF PIPELINE TO BE DETERMINED ON SITE BY THE ENGINEER
6. ALL SOILS ARE RED COFFEE SOILS UNLESS OTHERWISE STATED.

LEGEND

- PROPOSED PIPELINE
- EXISTING GROUND PROFILE
- WOV — WASHOUT VALVE
- DN — NOMINAL DIAMETER
- PN — NOMINAL PRESSURE
- VB — VERTICAL BEND
- HB — HORIZONTAL BEND
- SV — SLUICE VALVE
- ER — EARTH ROAD
- GR — GRAVEL ROAD
- CS — CONCRETE SURROUND
- EARTHWORKS (CUT-AWAY)
- DOUBLE AIR VALVE
- WASHOUT VALVE
- SECTIONAL VALVE

BENCHMARKS

POINT	EASTINGS (m)	NORTHINGS (m)	HEIGHT (m)
TBM1	280973.500	9918864.200	1558.096
TBM2	281427.200	9918702.800	1533.156
TBM3	281885.000	9918548.100	1511.129

FOR CONSTRUCTION
 Signed C.T.M.S

PROJECT
GITHAGARA-MAIRO ROAD WATER INFRASTRUCTURE RELOCATION PROJECT

CLIENT

TANA WATER SERVICES BOARD
 P.O.Box 1292 - 00100
 NYERI, KENYA
 E mail: info@twssb.co.ke
 CLIENTS SIGNATURE _____

FUNDING

THE NATIONAL GOVERNMENT OF KENYA
 MINISTRY OF WATER AND SANITATION
 P.O.Box
 NAIROBI, KENYA
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DRG TITLE
WATER SUPPLY
 PIPELINE HYDRAULIC PLAN AND PROFILE
 (LINE B1 SHEET 4 OF 4)

JOB No	TWDA-50/2021	DRG No	TWDA/GIMA/WR-004
DESIGNED	MARIGI MENGO	REVISIONS	
DRAWN	NYAGA MURITHI	A	D
CHECKED	ENG.D.NGUGI	B	E
SCALE	DATE	C	F
AS SHOWN (A3)	JUNE, 2021		