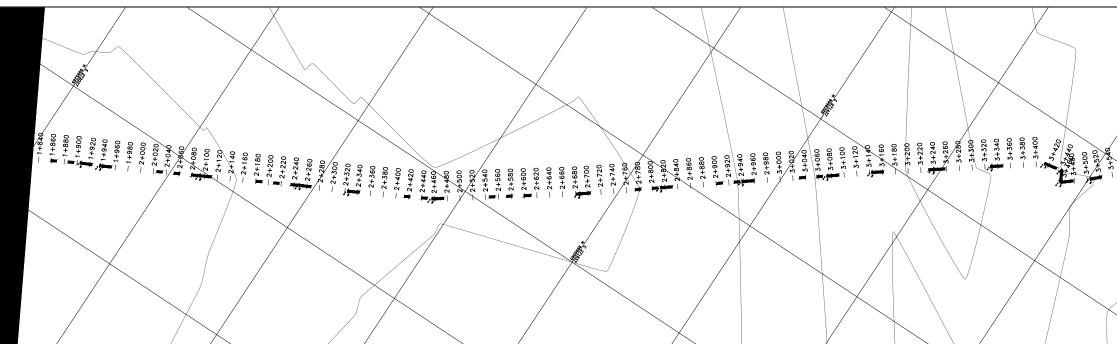
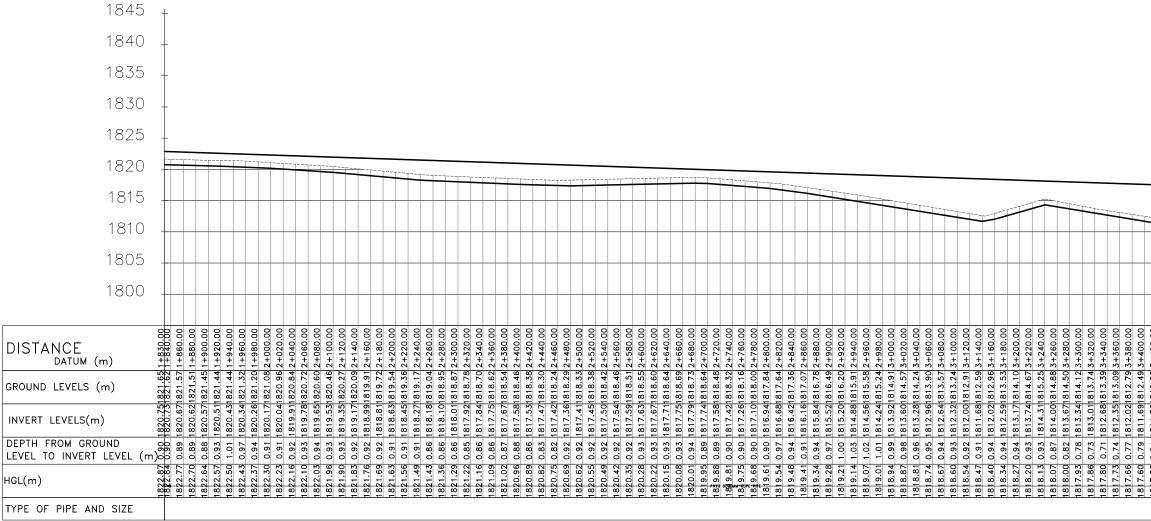


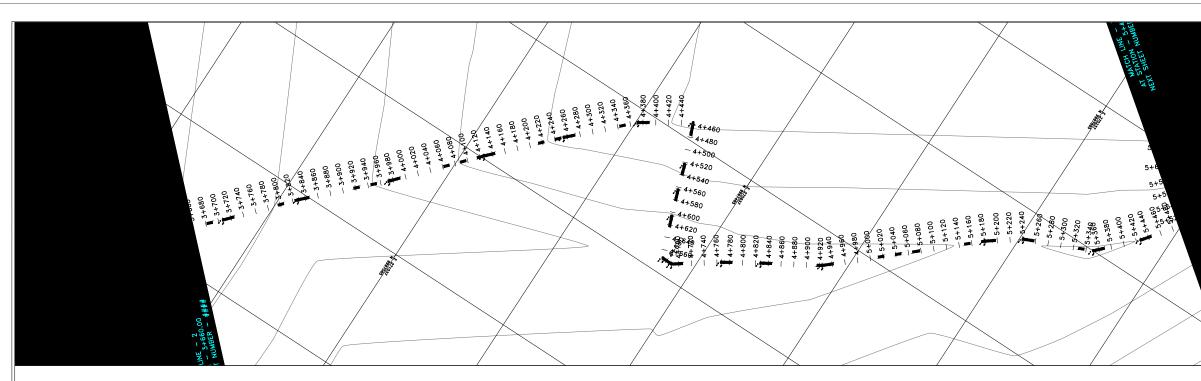
	NOTES
	1. ALL LEVELS ARE IN METERS ABOVE SEA
	LEVEL. 2. COORDINATES ARE BASED ON UTM.
	3 LOCATION OF AIR VALVES WASHOUTS
	BENDS AND OTHER FITTINGS AS SHOWN UNLESS OTHERWISE DIRECTED BY THE ENGINEER ON SITE.
	 GROUND AND INVERT LEVEL SHOWN ARE AS SHOWN ON DRAWING UNLESS OTHERWISE INDICATED ON SITE BY THE ENGINEER.
	 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.
	6. ALL BENDS ARE HORIZONTAL UNLESS OTHERWISE STATED.
	 IN WATER LOGGED AREAS, PIPES TO BE BEDDED WITH SINGLE SIZED OR GRADED AGGREGATES AS PER CLAUSE 430.1 AND 216 OF TECHNICAL SPECIFICATIONS AND/OR ANCHOR BLOCKS AS MAY BE DIRECTED ON SITE BY THE ENGINEER.
	LEGEND: - PROPOSED PIPELINE
	EXISTING GROUND PROFILE
	- PIPE INVERT PROFILE
\backslash	- AIR VALVE
	DAV – DOUBLE AIR VALVE
	WASHOUT
	W W01 - WASHOUT TYPE 1
	WO2 - WASHOUT TYPE 2
	DN – NOMINAL DIAMETER PN – NOMINAL PRESSURE
	VB – VERTICAL BEND
	HB – HORIZONTAL BEND
1	- EXISTING STRUCTURE
	ER – EARTH ROAD GR – GRAVEL ROAD
	UTTE — CUT
	FOR CONSTRUCTION signed CMTS REV R E V I S I O N S SIGN DATE APPROVED
	CHECKED
	BY CHECKED
	CHECKED BY CHECKED
	CHECKED
	CHECKED BY CHECKED CO ISSUED FOR CONSTRUCTION BY CLIENT CLIENT TANA WATER WORKS DEVELOPMENT AGENCY P. O. BOX 1292-10100 NYERI
620.00 640.00 6660.00 6680.00 700.00 720.00 720.00 780.00 800.00 800.00	CHECKED BY CHECKED CO ISSUED FOR CONSTRUCTION BY CHECKED CLIENT CLIENT TANA WATER WORKS DEVELOPMENT AGENCY P. O. BOX 1292-10100
3 1+620.00 9 1+660.00 8 1+680.00 7 1+700.00 5 1+720.00 9 1+780.00 9 1+780.00 9 1+780.00 9 1+780.00 9 1+780.00 9 1+780.00	CLIENT CL
1822.53 1+620 1822.29 1+640 1822.28 1+680 1822.27 1+700 1822.03 1+740 1822.03 1+740 1822.03 1+740 1822.03 1+740 1822.19 1+760 1821.90 1+760 1821.56 1+780 1821.56 1+820	CLIENT CHECKED CHECKED CLIENT CLIENT CLIENT CLIENT CLIENT CLIENT CLIENT CLIENT CLIENT CLIENT CLIENT CLIENT CHECKED
1821.461822.331+620 1821.451822.291+640 1821.451822.291+660 1821.561822.221+760 1821.551822.231+7700 1821.351822.231+7700 1821.031821.031+740 1821.031821.031+7700 1821.031821.91+760 1820.951821.561+1800 1820.751821.661+820 1820.751821.661+820	CHECKED BY CHECKED CO ISSUED FOR CONSTRUCTION BY CHECKED CLIENT CLIENT TANA WATER WORKS DEVELOPMENT AGENCY P. O. BOX 1292-10100 NYERI PROJECT AUGMENTATION OF TIGITHI-HUMUKA WATER PROJECT Civil/Structural Engineers TANA WATER WORKS
0.87 821.46 822.33 1+620 0.86 821.45 822.29 1+640 0.92 8121.548 822.29 1+640 0.94 821.548 822.27 1+700 0.94 821.35 822.27 1+700 0.93 821.123 822.23 1+740 0.90 1821.138 822.03 1+760 0.91 821.038 821.99 1+780 0.91 820.93 821.79 1+780 0.91 820.93 821.74 1+800 0.91 820.35 821.56 1+820 0.91 820.55 821.55 82	CIERT CI
1821.461822.331+620 1821.451822.291+640 1821.451822.291+660 1821.561822.221+760 1821.551822.231+7700 1821.351822.231+7700 1821.031821.031+740 1821.031821.031+7700 1821.031821.91+760 1820.951821.561+1800 1820.751821.661+820 1820.751821.661+820	CHECKED BY CHECKED CO ISSUED FOR CONSTRUCTION BY CHECKED CLIENT CLIENT TANA WATER WORKS DEVELOPMENT AGENCY P. O. BOX 1292-10100 NYERI PROJECT AUGMENTATION OF TIGITHI-HUMUKA WATER PROJECT Civil/Structural Engineers TANA WATER WORKS DEVELOPMENT AGENCY P. O. BOX 1292-10100 NYERI Drawing Title
0.87 1821.461 822.33 1+620 0.86 1821.431 822.23 1+640 0.89 1821.431 822.23 1+640 0.92 1821.361 822.23 1+780 0.93 1821.351 822.21 1+770 0.93 1821.131 822.23 1+742 0.90 1821.131 822.03 1+740 0.91 1821.031 821.90 1+760 0.86 1820.931 821.91 1+780 0.91 1820.831 821.91 1+780 0.91 1820.831 821.56 1+780 0.91 1820.831 821.56 1+830 0.91 1820.931 821.56 1+850 0.91 1820.931 821.56 1+850 0.91 1820.931 821.56 1+850 0.91 1820.931 821.56 1+850 0.91 1820.921 821.56	CILENT CALCERT COLLENT CLIENT CLIENT CLIENT CLIENT CLIENT CLIENT CLIENT TANA WATER WORKS DEVELOPMENT AGENCY P. O. BOX 1292-10100 NYERI PROJECT AUGMENTATION OF TIGITHI-HUMUKA WATER PROJECT CIVII/Structural Engineers TANA WATER WORKS DEVELOPMENT AGENCY P. O. BOX 1292-10100 NYERI Drawing Title WERUINI TANK SUPPLY LINE 1 PLAN AND PROFILE (SHEET 1 OF 4) Designed by KNG Drawn by MK
0.87 821.46 822.33 1+620 0.86 821.45 822.29 1+640 0.92 8121.548 822.29 1+640 0.94 821.548 822.27 1+700 0.94 821.35 822.27 1+700 0.93 821.123 822.23 1+740 0.90 1821.138 822.03 1+760 0.91 821.038 821.99 1+780 0.91 820.93 821.79 1+780 0.91 820.93 821.74 1+800 0.91 820.35 821.56 1+820 0.91 820.55 821.55 82	CHECKED BY CHECKED CHECKED CLIENT CLIENT CLIENT CLIENT TANA WATER WORKS DEVELOPMENT AGENCY P. O. BOX 1292-10100 NYERI PROJECT AUGMENTATION OF TIGITHI-HUMUKA WATER PROJECT Civil/Structural Engineers TANA WATER WORKS DEVELOPMENT AGENCY P. O. BOX 1292-10100 NYERI Drawing Title WERUINI TANK SUPPLY LINE 1 PLAN AND PROFILE (SHEET 1 OF 4) Designed by KNG Drawn by MK Checked by JMM Approved by
0.87 821.46 822.33 1+620 0.86 821.43 822.29 1+640 0.92 8121.40 822.22 1+640 0.94 821.35 822.27 1+700 0.94 821.35 822.27 1+700 0.93 1821.13 822.21 1+720 0.90 1821.13 822.20 1+760 0.91 821.03 821.90 1+760 0.86 820.93 821.90 1+760 0.91 820.93 821.97 1+800 0.91 820.93 821.74 1+800 0.91 820.93 821.56 1+830 0.91 820.75 821.56 1+830 0.91 820.55 821.55 821.55 1+830 0.91 820.55 821.55 821.55 821.55 1+850 0.91 820.55 821.55	CHECKED BY BY CHECKED CHECKED CHECKED CLIENT CHECKED CLIENT TANA WATER WORKS DEVELOPMENT AGENCY P. O. BOX 1292-10100 NYERI PROJECT AUGMENTATION OF TIGITHI-HUMUKA WATER PROJECT Civil/Structural Engineers TANA WATER WORKS DEVELOPMENT AGENCY P. O. BOX 1292-10100 NYERI Drawing Title TANA WATER WORKS DEVELOPMENT AGENCY P. O. BOX 1292-10100 NYERI Drawing Title WERUINI TANK SUPPLY LINE 1 PLAN AND PROFILE (SHEET 1 OF 4) Designed by KNG Derawn by MK Checked by JMM Checked by JMM Approved by Scale As SHOWN (A1) Date SEPTEMBER 2023
0.87 821.46 822.33 1+620 0.86 821.45 822.29 1+640 0.92 8121.548 822.29 1+640 0.94 821.548 822.27 1+700 0.94 821.35 822.27 1+700 0.93 821.123 822.23 1+740 0.90 1821.138 822.03 1+760 0.91 821.038 821.99 1+780 0.91 820.93 821.79 1+780 0.91 820.93 821.74 1+800 0.91 820.35 821.56 1+820 0.91 820.55 821.55 82	CHECKED BY CHECKED CHECKED CLIENT CLIENT CLIENT CLIENT TANA WATER WORKS DEVELOPMENT AGENCY P. O. BOX 1292-10100 NYERI PROJECT AUGMENTATION OF TIGITHI-HUMUKA WATER PROJECT Civil/Structural Engineers TANA WATER WORKS DEVELOPMENT AGENCY P. O. BOX 1292-10100 NYERI Drawing Title WERUINI TANK SUPPLY LINE 1 PLAN AND PROFILE (SHEET 1 OF 4) Designed by KNG Drawn by MK Checked by JMM Approved by

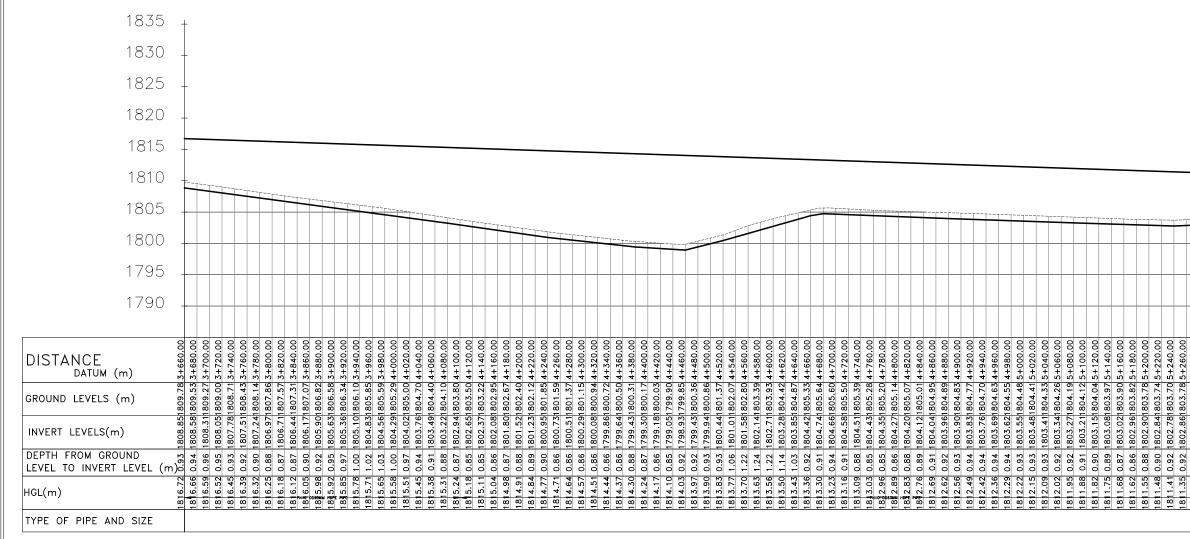




Weruini supply line 1 SCALE: HOR 1:2000 VERT 1:1000

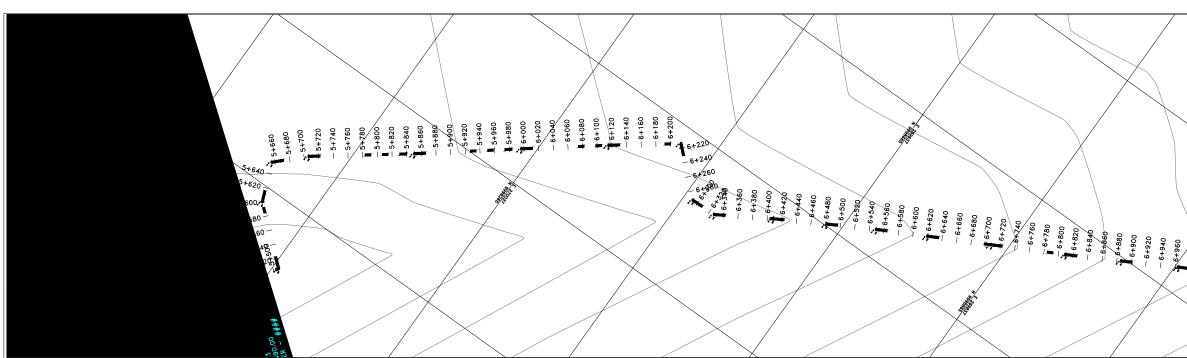
5 <u>2</u> 5	NOTES
TEAN PERFECT	1. ALL LEVELS ARE IN METERS ABOVE SEA
NEA	LEVEL. 2. COORDINATES ARE BASED ON UTM.
	BENDS AND OTHER FITTINGS AS SHOWN UNLESS OTHERWISE DIRECTED BY THE ENGINEER ON SITE.
200	 GROUND AND INVERT LEVEL SHOWN ARE AS SHOWN ON DRAWING UNLESS OTHERWISE INDICATED ON SITE BY THE ENGINEER.
-3+580 -3+560 -3+580 -3+620 -3+640	 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.
	 ALL BENDS ARE HORIZONTAL UNLESS OTHERWISE STATED.
	 IN WATER LOGGED AREAS, PIPES TO BE BEDDED WITH SINGLE SIZED OR GRADED AGGREGATES AS PER CLAUSE 430.1 AND 216 OF TECHNICAL SPECIFICATIONS AND/OR ANCHOR BLOCKS AS MAY BE DIRECTED ON SITE BY THE ENGINEER.
	LEGEND:
	- PROPOSED PIPELINE
< //	EXISTING GROUND PROFILE
	- EXISTING ROAD
	DAV – DOUBLE AIR VALVE
	washout
	W01 - WASHOUT TYPE 1
	WO2 - WASHOUT TYPE 2
	DN – NOMINAL DIAMETER PN – NOMINAL PRESSURE
	VB – VERTICAL BEND
1	HB – HORIZONTAL BEND
	ER – EXISTING STRUCTURE
	GR – GRAVEL ROAD
	匹元 – CUT
	signed CMTS
	BY
	CHECKED BY
	CHECKED BY
	CHECKED CO ISSUED FOR CONSTRUCTION BY
	CHECKED CHECKED
	TANA WATER WORKS DEVELOPMENT AGENCY P. O. BOX 1292-10100 NYERI
811.65 812.29 5+400.00 811.35 812.20 3+420.00 811.35 812.35 3+420.00 811.35 812.45 3+460.00 811.25 812.45 3+460.00 811.25 812.35 3+480.00 810.45 811.87 3+520.00 810.46 811.54 3+520.00 810.46 811.54 3+520.00 809.92 810.55 3+600.00 809.56 810.55 3+600.00 809.58 810.25 3+600.00 809.58 810.25 3+600.00 809.58 810.26 3+560.00 809.58 810.26 3+560.00 808.85 809.78 3+660.00	PROJECT AUGMENTATION OF TIGITHI-HUMUKA WATER PROJECT
1812.24 1812.20 1812.20 1812.45 1812.45 1812.45 1812.45 1811.87 1811.87 1811.54 1811.54 1811.54 1811.54 1811.54 1811.54 1811.54 1811.55 1815.55 181	Civil/Structural Engineers
1812. 1812. 1812. 1812. 1812. 1811. 1810. 1810. 1810. 1810. 1810.	TANA WATER WORKS
10.09161.243 1811.551812.20 1811.551812.455 1811.551812.455 1811.551812.455 1811.251812.455 1811.251812.455 1811.251811.251 1810.451811.51 1810.451811.51 1810.451811.51 1810.451811.51 1810.451811.51 1810.15811.54 1810.15811.54 1810.15811.54 1810.15811.54 1810.15811.54 1810.15811.54 1810.15811.54 1810.15811.54 1810.15811.54 1810.15811.54 1810.155 1809.551810.55 1809.551810.55 1809.551810.55 1809.551809.78 1808.551809.78	DEVELOPMENT AGENCY P. O. BOX 1292-10100 NYERI
92 92 92 92 92 92 92 92 92 92 92 93 93 93 93 93 93 93 93 93 93 93 93 93	COMENT Nº
	Drawing Title WERUINI TANK SUPPLY
	LINE 1 PLAN AND PROFILE (SHEET 2 OF 4)
	PLAN AND PROFILE (SHEET 2 OF 4) Designed by KNG Drawn by MK Checked by JMM Approved by
	PLAN AND PROFILE (SHEET 2 OF 4) Designed by KNG Drawn by MK Checked by JMM Approved by Scale As SHOWN (A1) Date SEPTEMBER 2023
	PLAN AND PROFILE (SHEET 2 OF 4) Designed by KNG Drawn by MK Checked by JMM Approved by

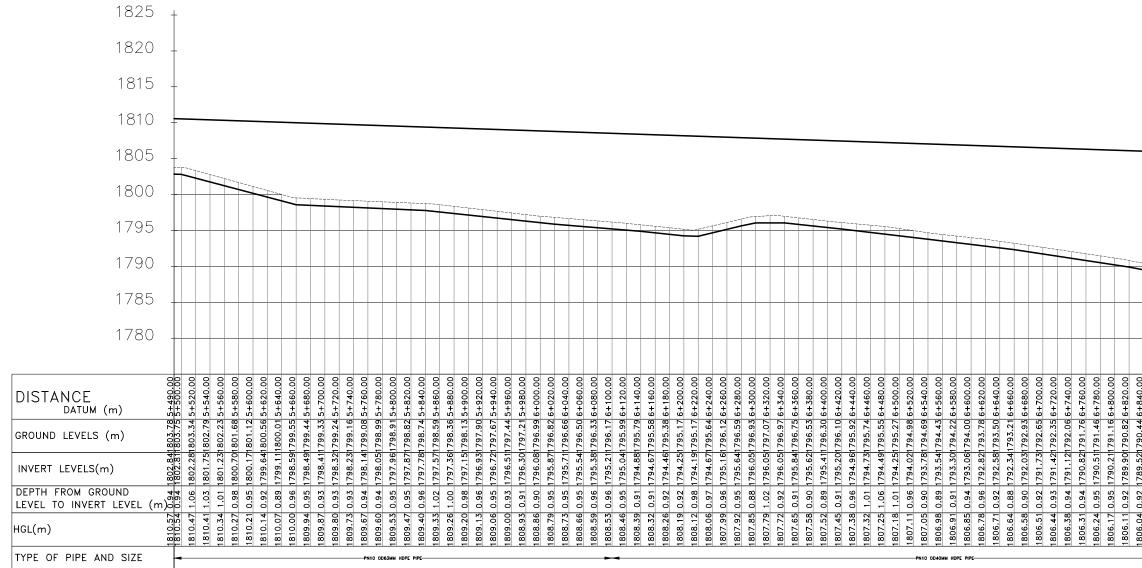




	1. ALL LEVELS ARE IN METERS ABOVE SEA LEVEL.
	 COORDINATES ARE BASED ON UTM. LOCATION OF AIR VALVES, WASHOUTS.
	BENDS AND OTHER FITTINGS AS SHOWN UNLESS OTHERWISE DIRECTED BY THE ENGINEER ON SITE.
	 GROUND AND INVERT LEVEL SHOWN ARE AS SHOWN ON DRAWING UNLESS OTHERWISE INDICATED ON SITE BY THE ENGINEER.
	 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.
	 ALL BENDS ARE HORIZONTAL UNLESS OTHERWISE STATED.
	 IN WATER LOGED AREAS, PIPES TO BE BEDDED WITH SINGLE SIZED OR GRADED AGGREGATES AS PER CLAUSE 430.1 AND 216 OF TECHNICAL SPECIFICATIONS AND/OR ANCHOR BLOCKS AS MAY BE DIRECTED ON SITE BY THE ENGINEER. <u>LEGEND:</u> PROPOSED PIPELINE
	- PROPOSED PIPELINE EXISTING GROUND PROFILE
	PIPE INVERT PROFILE
	T - AIR VALVE
	DAV – DOUBLE AIR VALVE
	│ ★ – WASHOUT
	W01 – WASHOUT TYPE 1 W02 – WASHOUT TYPE 2
	DN – NOMINAL DIAMETER
	PN - NOMINAL PRESSURE
	HB - HORIZONTAL BEND
	– EXISTING STRUCTURE
	ER – EARTH ROAD GR – GRAVEL ROAD
	GR – GRAVEL ROAD
	FOR CONSTRUCTION
	REV REVISIONS SIGN DATE APPROVED
	BY CHECKED
	BY CHECKED
	BY CHECKED
	CO ISSUED FOR CONSTRUCTION BY CHECKED
	TANA WATER WORKS DEVELOPMENT AGENCY P. O. BOX 1292-10100 NYERI
803.86 5+280.00 803.95 5+280.00 804.10 55+20.00 804.14 5+360.00 804.09 5+360.00 804.09 5+360.00 804.04 5+40.00 803.99 5+440.00 803.94 5+440.00 803.94 5+440.00 803.98 5+440.00 803.98 5+440.00	PROJECT AUGMENTATION OF TIGITHI-HUMUKA WATER PROJECT
H1803.86 1803.95 1803.95 1804.11 1804.14 1804.09 1803.99 1803.99 1803.87 1803.81 1803.78	Civil/Structural Engineers
0.92 802.94 803.86 0.92 803.02 803.95 0.92 803.11 804.10 0.87 803.21 804.14 0.87 803.27 804.14 0.89 803.27 804.04 0.90 803.14 804.04 0.90 803.07 803.99 0.93 802.94 803.87 0.93 802.94 803.87 0.93 802.94 803.79	TANA WATER WORKS DEVELOPMENT AGENCY P. O. BOX 1292-10100 NYERI
11.28 11.21 11.01 11.08 0.94 0.88 0.88 0.88 0.68 0.68 0.57	Drawing Title
181 181 181 181 181 181 181 181 181 181	WERUINI TANK SUPPLY LINE 1 PLAN AND PROFILE (SHEET 3 OF 4)
	Designed by KNG Drawn by MK
	Checked by JMM Approved by
	Scale AS SHOWN (A1) Date SEPTEMBER 2023
	Job No. 1 ACAD File:
	STATUS DRAWING NoTWWDA/THWP/WTS1/03 CO

PD STATUS DRAWING NoTWWDA/THWP/WTS1/03 CO REV





Weruini supply line 1 SCALE: HOR 1:2000 VERT 1:1000

	NOTES
\setminus X	1. ALL LEVELS ARE IN METERS ABOVE SEA
	2. COORDINATES ARE BASED ON UTM.
	3. LOCATION OF AIR VALVES, WASHOUTS, BENDS AND OTHER FITTINGS AS SHOWN UNLESS OTHERWISE DIRECTED BY THE ENGINEER ON SITE.
	4. GROUND AND INVERT LEVEL SHOWN ARE AS SHOWN ON DRAWING UNLESS OTHERWISE INDICATED ON SITE BY THE ENGINEER.
	5. 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. 6. ALL BENDS ARE HORIZONTAL UNLESS OTHERWISE STATED.
026++9 000+7 6285454	7. IN WATER LOGGED AREAS, PIPES TO BE BEDDED WITH SINGLE SIZED OR GRADED AGGREGATES AS PER CLAUSE 430.1 AND 216 OF TECHNICAL SPECIFICATIONS AND/OR ANCHOR BLOCKS AS MAY BE DIRECTED ON SITE BY THE ENGINEER.
	LEGEND:
_ /	
\sim	EXISTING GROUND PROFILE
	DAV - DOUBLE AIR VALVE
	- WASHOUT
	WO1 – WASHOUT TYPE 1 WO2 – WASHOUT TYPE 2
	DN – NOMINAL DIAMETER
	PN – NOMINAL PRESSURE VB – VERTICAL BEND
	HB – HORIZONTAL BEND
	- EXISTING STRUCTURE
	GR – EARTH ROAD GR – GRAVEL ROAD
	FOR CONSTRUCTION
	signed CMTS
	REV R E V I S I O N S SIGN DATE APPROVED BY CHECKED Image: CH
	BY CHECKED
	BY CHECKED
	CO ISSUED FOR CONSTRUCTION BY CHECKED
	CLIENT TANA WATER WORKS DEVELOPMENT AGENCY P. O. BOX 1292-10100 NYERI
1789.131790.06 64860.00 1788.561789.68 64880.00 1788.561789.39 64900.00 1788.241789.13 64920.00 1787.3191788.63 64920.00 1787.731788.63 64960.00 1787.171788.53 64960.00 1787.211788.13 74000.00 1787.211788.13 74000.00	PROJECT AUGMENTATION OF TIGITHI-HUMUKA WATER PROJECT
1789.131790.06 1788.5501789.68 1788.501789.39 1788.241789.13 1787.731788.63 1787.731788.63 1787.471788.38 1787.211788.38 1787.211788.13 1787.211788.13 1787.211788.13 1787.21788.13	Civil/Structural Engineers
1789.131 1788.551 1788.551 1788.501 1788.241 1787.731 1787.471 1787.471 1787.211 1787.211 1787.211	TANA WATER WORKS
0.92 0.89 0.90 0.90 0.91 0.91 0.92 0.92	DEVELOPMENT AGENCY P. O. BOX 1292-10100 NYERI
1805.97 1805.91 1805.84 1805.77 1805.70 1805.64 1805.57 1805.50 1805.50	Drawing Title WERUINI TANK SUPPLY
	LINE 1 PLAN AND PROFILE (SHEET 4 OF 4)
	Designed by KNG Drawn by MK
	Checked by JMM Approved by
	Scale as shown (A1) Date SEPTEMBER 2023