


- NOTES**
- 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 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
  - EXISTING ROAD
  - ◇ AIR VALVE
  - DAV DOUBLE AIR VALVE
  - ▽ WASHOUT
  - W01 WASHOUT TYPE 1
  - W02 WASHOUT TYPE 2
  - DN NOMINAL DIAMETER
  - PN NOMINAL PRESSURE
  - VB VERTICAL BEND
  - HB HORIZONTAL BEND
  - ▨ EXISTING STRUCTURE
  - ER EARTH ROAD
  - GR GRAVEL ROAD
  - ▭ CUT

**FOR CONSTRUCTION**  
signed CMTS

REV	REVISIONS	SIGN	DATE	APPROVED
	BY CHECKED			
	BY CHECKED			
	BY CHECKED			
CO	ISSUED FOR CONSTRUCTION BY CHECKED			

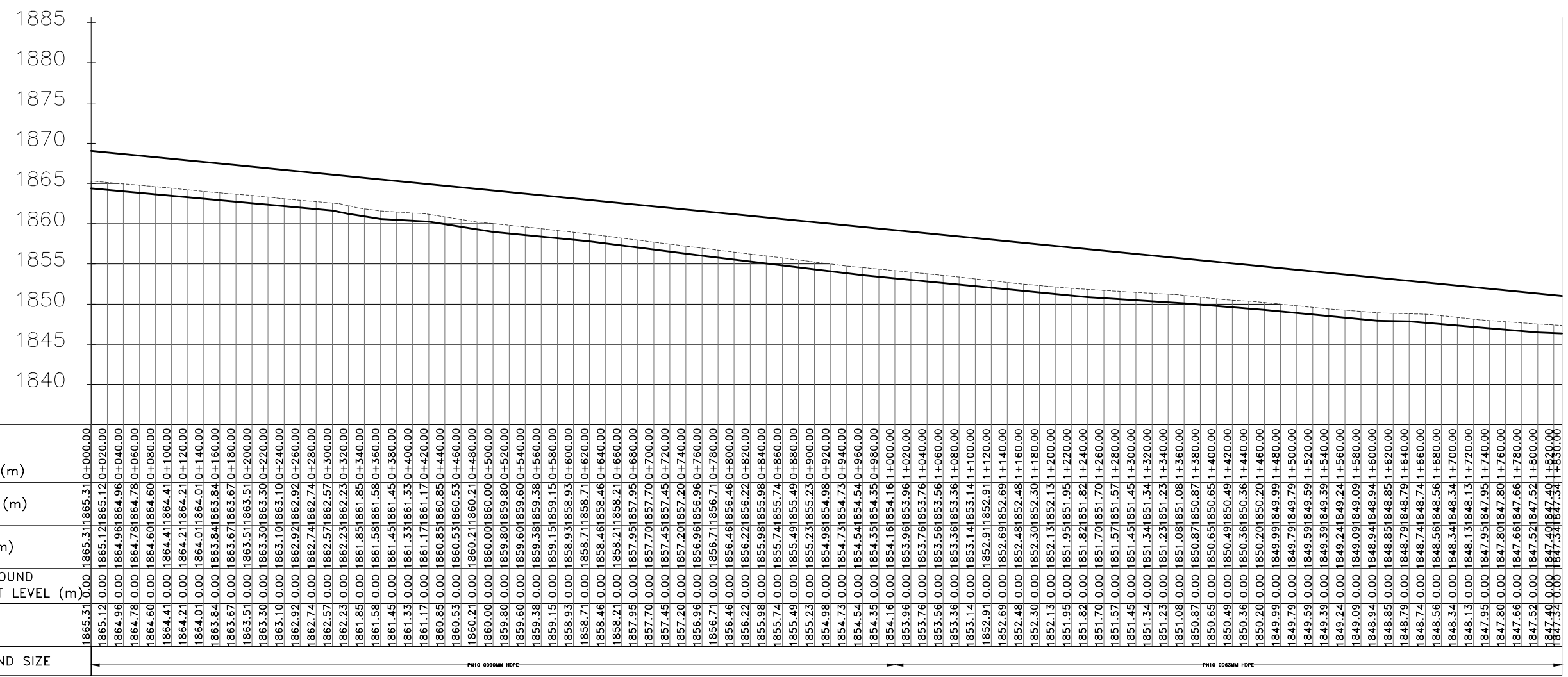
**CLIENT**  

**TANA WATER WORKS DEVELOPMENT AGENCY**  
 P. O. BOX 1292-10100  
 NYERI

**PROJECT**  
 DESIGNS FOR AUGMENTATION OF  
 TIGITHI-HUMUKA WATER PROJECT

**Civil/Structural Engineers**  

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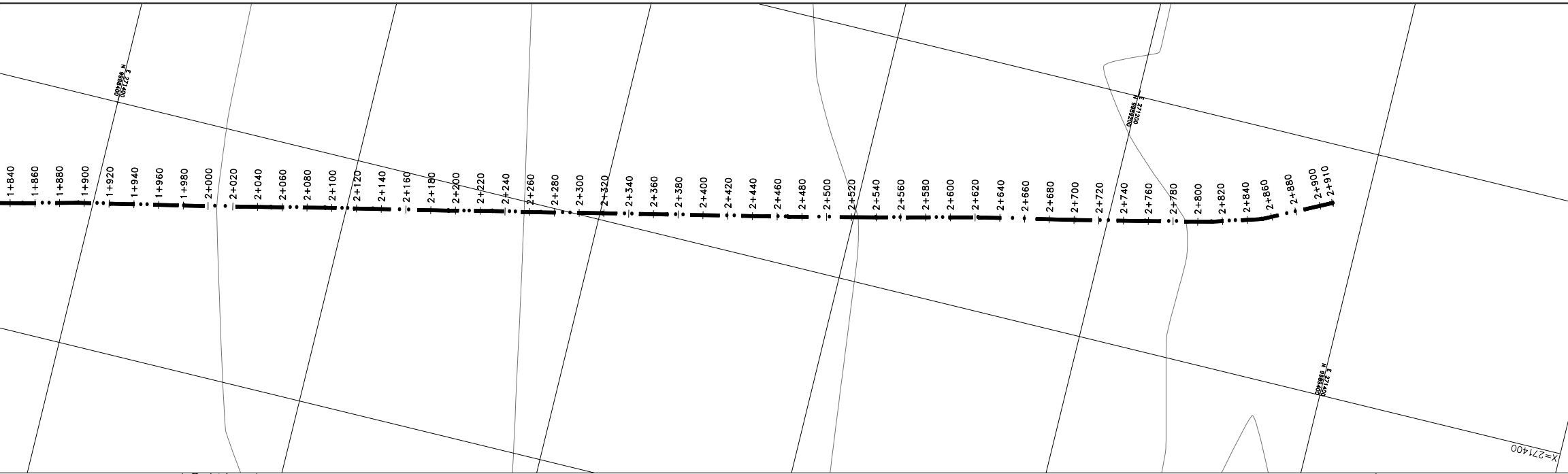
**Drawing Title**  
 MALE CENTER LINE  
 PLAN AND PROFILE (SHEET 1 OF 2)

Designed by KNG	Drawn by MK
Checked by JMM	Approved by
Scale AS SHOWN (A1)	Date SEPTEMBER 2023
Job No. 1	ACAD File:
PD STATUS	DRAWING No.TWWD/THWP/MCL/01
	CO REV



Male Centre Line  
 SCALE: HOR 1:2000 VERT 1:1000

LINE - 1  
 1+830.00  
 ET NUMBER - 1



DISTANCE DATUM (m)	GROUND LEVELS (m)	INVERT LEVELS(m)	DEPTH FROM GROUND LEVEL TO INVERT LEVEL (m)	HGL(m)	TYPE OF PIPE AND SIZE
1+840	1851.00	1846.34	0.99	1851.00	PN10 0063MM HDPE
1+860	1850.91	1846.30	0.97	1850.91	PN10 0063MM HDPE
1+880	1850.71	1846.22	0.94	1850.71	PN10 0063MM HDPE
1+900	1850.51	1846.15	0.93	1850.51	PN10 0063MM HDPE
1+920	1850.31	1845.95	1.00	1850.31	PN10 0063MM HDPE
1+940	1850.12	1845.76	1.00	1850.12	PN10 0063MM HDPE
1+960	1849.92	1845.56	1.00	1849.92	PN10 0063MM HDPE
1+980	1849.72	1845.37	1.00	1849.72	PN10 0063MM HDPE
2+000	1849.52	1845.17	1.00	1849.52	PN10 0063MM HDPE
2+020	1849.33	1845.08	0.97	1849.33	PN10 0063MM HDPE
2+040	1849.13	1844.99	0.93	1849.13	PN10 0063MM HDPE
2+060	1848.93	1844.89	0.89	1848.93	PN10 0063MM HDPE
2+080	1848.74	1844.80	0.89	1848.74	PN10 0063MM HDPE
2+100	1848.54	1844.71	0.93	1848.54	PN10 0063MM HDPE
2+120	1848.34	1844.59	0.91	1848.34	PN10 0063MM HDPE
2+140	1848.14	1844.46	0.89	1848.14	PN10 0063MM HDPE
2+160	1847.95	1844.31	0.94	1847.95	PN10 0063MM HDPE
2+180	1847.75	1844.19	0.93	1847.75	PN10 0063MM HDPE
2+200	1847.55	1844.05	0.92	1847.55	PN10 0063MM HDPE
2+220	1847.35	1843.91	0.91	1847.35	PN10 0063MM HDPE
2+240	1847.16	1843.76	0.91	1847.16	PN10 0063MM HDPE
2+260	1846.96	1843.61	0.91	1846.96	PN10 0063MM HDPE
2+280	1846.76	1843.45	0.92	1846.76	PN10 0063MM HDPE
2+300	1846.56	1843.29	0.93	1846.56	PN10 0063MM HDPE
2+320	1846.37	1843.13	0.93	1846.37	PN10 0063MM HDPE
2+340	1846.17	1842.97	0.94	1846.17	PN10 0063MM HDPE
2+360	1845.97	1842.81	0.95	1845.97	PN10 0063MM HDPE
2+380	1845.78	1842.65	0.94	1845.78	PN10 0063MM HDPE
2+400	1845.58	1842.49	0.93	1845.58	PN10 0063MM HDPE
2+420	1845.38	1842.33	0.93	1845.38	PN10 0063MM HDPE
2+440	1845.18	1842.17	0.92	1845.18	PN10 0063MM HDPE
2+460	1844.99	1842.01	0.92	1844.99	PN10 0063MM HDPE
2+480	1844.79	1841.85	0.91	1844.79	PN10 0063MM HDPE
2+500	1844.59	1841.69	0.92	1844.59	PN10 0063MM HDPE
2+520	1844.39	1841.53	0.92	1844.39	PN10 0063MM HDPE
2+540	1844.20	1841.37	0.95	1844.20	PN10 0063MM HDPE
2+560	1844.00	1841.21	0.98	1844.00	PN10 0063MM HDPE
2+580	1843.80	1841.05	0.96	1843.80	PN10 0063MM HDPE
2+600	1843.61	1840.89	0.94	1843.61	PN10 0063MM HDPE
2+620	1843.41	1840.73	0.93	1843.41	PN10 0063MM HDPE
2+640	1843.21	1840.57	0.89	1843.21	PN10 0063MM HDPE
2+660	1843.01	1840.41	0.90	1843.01	PN10 0063MM HDPE
2+680	1842.82	1840.25	0.91	1842.82	PN10 0063MM HDPE
2+700	1842.62	1840.09	0.92	1842.62	PN10 0063MM HDPE
2+720	1842.42	1839.93	0.93	1842.42	PN10 0063MM HDPE
2+740	1842.22	1839.77	0.94	1842.22	PN10 0063MM HDPE
2+760	1842.03	1839.61	0.95	1842.03	PN10 0063MM HDPE
2+780	1841.83	1839.45	0.93	1841.83	PN10 0063MM HDPE
2+800	1841.63	1839.29	0.92	1841.63	PN10 0063MM HDPE
2+820	1841.43	1839.13	0.91	1841.43	PN10 0063MM HDPE
2+840	1841.24	1838.97	0.92	1841.24	PN10 0063MM HDPE
2+860	1841.04	1838.81	0.96	1841.04	PN10 0063MM HDPE
2+880	1840.84	1838.65	0.97	1840.84	PN10 0063MM HDPE
2+900	1840.65	1838.49	0.96	1840.65	PN10 0063MM HDPE
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REV	REVISIONS	SIGN	DATE	APPROVED

CLIENT

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Drawing Title

MALE CENTER LINE  
 PLAN AND PROFILE (SHEET 2 OF 2)

Designed by	KNG	Drawn by	MK
Checked by	JMM	Approved by	
Scale	AS SHOWN (A1)	Date	SEPTEMBER 2023
Job No.	1	ACAD File:	
PD STATUS	DRAWING No.TWWDA/THWP/MCL/02	CO REV	