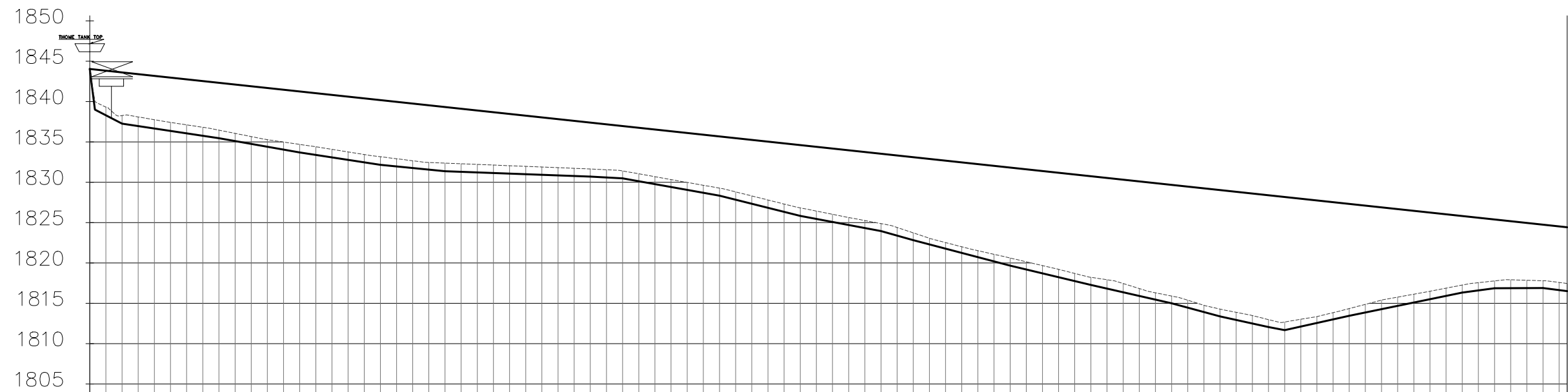


**NOTES**


- 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
  - WO1 — WASHOUT TYPE 1
  - WO2 — WASHOUT TYPE 2
  - DN — NOMINAL DIAMETER
  - PN — NOMINAL PRESSURE
  - VB — VERTICAL BEND
  - HB — HORIZONTAL BEND
  - ▨ — EXISTING STRUCTURE
  - ER — EARTH ROAD
  - GR — GRAVEL ROAD
  - ⊕ — CUT

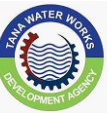


**FOR CONSTRUCTION**  
signed CMTS

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

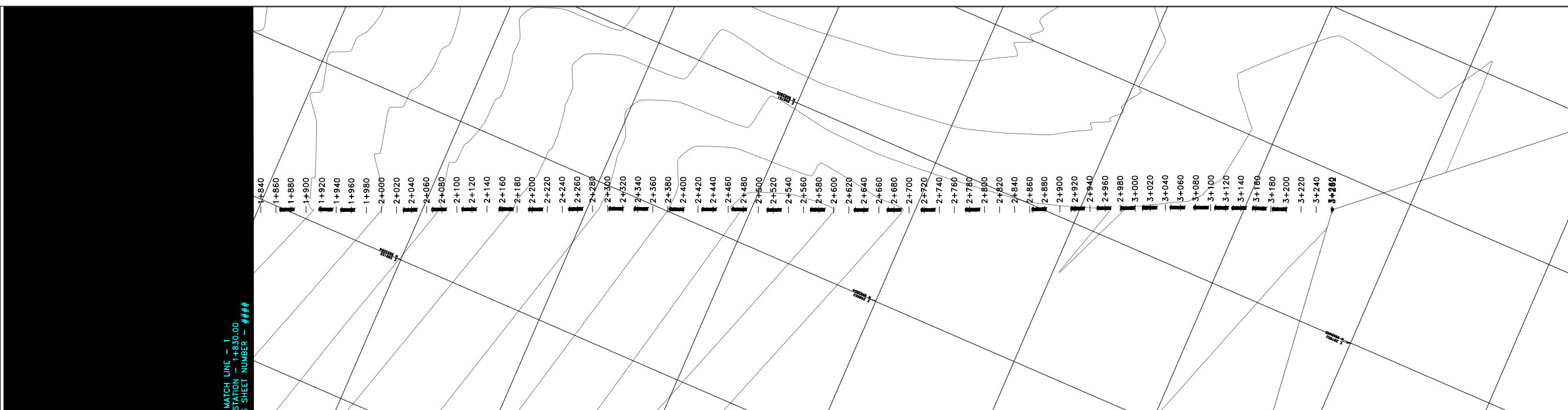
Civil/Structural Engineers  

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

Drawing Title  
**THOME TANK SUPPLY**  
 LINE 1  
 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/TTS1/01
	CO REV

DISTANCE DATUM (m)	GROUND LEVELS (m)	INVERT LEVELS(m)	DEPTH FROM GROUND LEVEL TO INVERT LEVEL (m)	HGL(m)	TYPE OF PIPE AND SIZE
1844.04	1844.04	1844.04	0.00	1844.04	PH10 0014.5MM PVC PIPE
1839.31	1839.31	1839.31	0.00	1839.31	PH10 0014.5MM PVC PIPE
1836.26	1836.26	1836.26	0.00	1836.26	PH10 0014.5MM PVC PIPE
1838.10	1838.10	1838.10	0.00	1838.10	PH10 0014.5MM PVC PIPE
1837.75	1837.75	1837.75	0.00	1837.75	PH10 0014.5MM PVC PIPE
1837.42	1837.42	1837.42	0.00	1837.42	PH10 0014.5MM PVC PIPE
1837.11	1837.11	1837.11	0.00	1837.11	PH10 0014.5MM PVC PIPE
1836.81	1836.81	1836.81	0.00	1836.81	PH10 0014.5MM PVC PIPE
1836.45	1836.45	1836.45	0.00	1836.45	PH10 0014.5MM PVC PIPE
1836.06	1836.06	1836.06	0.00	1836.06	PH10 0014.5MM PVC PIPE
1835.66	1835.66	1835.66	0.00	1835.66	PH10 0014.5MM PVC PIPE
1835.28	1835.28	1835.28	0.00	1835.28	PH10 0014.5MM PVC PIPE
1834.98	1834.98	1834.98	0.00	1834.98	PH10 0014.5MM PVC PIPE
1834.69	1834.69	1834.69	0.00	1834.69	PH10 0014.5MM PVC PIPE
1834.39	1834.39	1834.39	0.00	1834.39	PH10 0014.5MM PVC PIPE
1834.08	1834.08	1834.08	0.00	1834.08	PH10 0014.5MM PVC PIPE
1833.76	1833.76	1833.76	0.00	1833.76	PH10 0014.5MM PVC PIPE
1833.43	1833.43	1833.43	0.00	1833.43	PH10 0014.5MM PVC PIPE
1833.16	1833.16	1833.16	0.00	1833.16	PH10 0014.5MM PVC PIPE
1832.91	1832.91	1832.91	0.00	1832.91	PH10 0014.5MM PVC PIPE
1832.66	1832.66	1832.66	0.00	1832.66	PH10 0014.5MM PVC PIPE
1832.45	1832.45	1832.45	0.00	1832.45	PH10 0014.5MM PVC PIPE
1832.29	1832.29	1832.29	0.00	1832.29	PH10 0014.5MM PVC PIPE
1832.21	1832.21	1832.21	0.00	1832.21	PH10 0014.5MM PVC PIPE
1832.13	1832.13	1832.13	0.00	1832.13	PH10 0014.5MM PVC PIPE
1832.05	1832.05	1832.05	0.00	1832.05	PH10 0014.5MM PVC PIPE
1831.97	1831.97	1831.97	0.00	1831.97	PH10 0014.5MM PVC PIPE
1831.81	1831.81	1831.81	0.00	1831.81	PH10 0014.5MM PVC PIPE
1831.73	1831.73	1831.73	0.00	1831.73	PH10 0014.5MM PVC PIPE
1831.64	1831.64	1831.64	0.00	1831.64	PH10 0014.5MM PVC PIPE
1831.55	1831.55	1831.55	0.00	1831.55	PH10 0014.5MM PVC PIPE
1831.40	1831.40	1831.40	0.00	1831.40	PH10 0014.5MM PVC PIPE
1831.04	1831.04	1831.04	0.00	1831.04	PH10 0014.5MM PVC PIPE
1830.68	1830.68	1830.68	0.00	1830.68	PH10 0014.5MM PVC PIPE
1830.33	1830.33	1830.33	0.00	1830.33	PH10 0014.5MM PVC PIPE
1829.98	1829.98	1829.98	0.00	1829.98	PH10 0014.5MM PVC PIPE
1829.62	1829.62	1829.62	0.00	1829.62	PH10 0014.5MM PVC PIPE
1829.27	1829.27	1829.27	0.00	1829.27	PH10 0014.5MM PVC PIPE
1828.81	1828.81	1828.81	0.00	1828.81	PH10 0014.5MM PVC PIPE
1828.30	1828.30	1828.30	0.00	1828.30	PH10 0014.5MM PVC PIPE
1827.80	1827.80	1827.80	0.00	1827.80	PH10 0014.5MM PVC PIPE
1827.30	1827.30	1827.30	0.00	1827.30	PH10 0014.5MM PVC PIPE
1826.83	1826.83	1826.83	0.00	1826.83	PH10 0014.5MM PVC PIPE
1826.43	1826.43	1826.43	0.00	1826.43	PH10 0014.5MM PVC PIPE
1826.03	1826.03	1826.03	0.00	1826.03	PH10 0014.5MM PVC PIPE
1825.63	1825.63	1825.63	0.00	1825.63	PH10 0014.5MM PVC PIPE
1825.25	1825.25	1825.25	0.00	1825.25	PH10 0014.5MM PVC PIPE
1824.88	1824.88	1824.88	0.00	1824.88	PH10 0014.5MM PVC PIPE
1824.40	1824.40	1824.40	0.00	1824.40	PH10 0014.5MM PVC PIPE
1823.73	1823.73	1823.73	0.00	1823.73	PH10 0014.5MM PVC PIPE
1823.06	1823.06	1823.06	0.00	1823.06	PH10 0014.5MM PVC PIPE
1822.52	1822.52	1822.52	0.00	1822.52	PH10 0014.5MM PVC PIPE
1822.00	1822.00	1822.00	0.00	1822.00	PH10 0014.5MM PVC PIPE
1821.52	1821.52	1821.52	0.00	1821.52	PH10 0014.5MM PVC PIPE
1821.07	1821.07	1821.07	0.00	1821.07	PH10 0014.5MM PVC PIPE
1820.61	1820.61	1820.61	0.00	1820.61	PH10 0014.5MM PVC PIPE
1820.14	1820.14	1820.14	0.00	1820.14	PH10 0014.5MM PVC PIPE
1819.67	1819.67	1819.67	0.00	1819.67	PH10 0014.5MM PVC PIPE
1819.21	1819.21	1819.21	0.00	1819.21	PH10 0014.5MM PVC PIPE
1818.70	1818.70	1818.70	0.00	1818.70	PH10 0014.5MM PVC PIPE
1818.21	1818.21	1818.21	0.00	1818.21	PH10 0014.5MM PVC PIPE
1817.92	1817.92	1817.92	0.00	1817.92	PH10 0014.5MM PVC PIPE
1817.44	1817.44	1817.44	0.00	1817.44	PH10 0014.5MM PVC PIPE
1816.82	1816.82	1816.82	0.00	1816.82	PH10 0014.5MM PVC PIPE
1816.30	1816.30	1816.30	0.00	1816.30	PH10 0014.5MM PVC PIPE
1815.90	1815.90	1815.90	0.00	1815.90	PH10 0014.5MM PVC PIPE
1815.38	1815.38	1815.38	0.00	1815.38	PH10 0014.5MM PVC PIPE
1814.75	1814.75	1814.75	0.00	1814.75	PH10 0014.5MM PVC PIPE
1814.28	1814.28	1814.28	0.00	1814.28	PH10 0014.5MM PVC PIPE
1813.88	1813.88	1813.88	0.00	1813.88	PH10 0014.5MM PVC PIPE
1813.48	1813.48	1813.48	0.00	1813.48	PH10 0014.5MM PVC PIPE
1812.98	1812.98	1812.98	0.00	1812.98	PH10 0014.5MM PVC PIPE
1812.68	1812.68	1812.68	0.00	1812.68	PH10 0014.5MM PVC PIPE
1813.02	1813.02	1813.02	0.00	1813.02	PH10 0014.5MM PVC PIPE
1813.35	1813.35	1813.35	0.00	1813.35	PH10 0014.5MM PVC PIPE
1813.84	1813.84	1813.84	0.00	1813.84	PH10 0014.5MM PVC PIPE
1814.34	1814.34	1814.34	0.00	1814.34	PH10 0014.5MM PVC PIPE
1814.87	1814.87	1814.87	0.00	1814.87	PH10 0014.5MM PVC PIPE
1815.39	1815.39	1815.39	0.00	1815.39	PH10 0014.5MM PVC PIPE
1815.76	1815.76	1815.76	0.00	1815.76	PH10 0014.5MM PVC PIPE
1816.49	1816.49	1816.49	0.00	1816.49	PH10 0014.5MM PVC PIPE
1816.88	1816.88	1816.88	0.00	1816.88	PH10 0014.5MM PVC PIPE
1817.26	1817.26	1817.26	0.00	1817.26	PH10 0014.5MM PVC PIPE
1817.55	1817.55	1817.55	0.00	1817.55	PH10 0014.5MM PVC PIPE
1817.77	1817.77	1817.77	0.00	1817.77	PH10 0014.5MM PVC PIPE
1817.91	1817.91	1817.91	0.00	1817.91	PH10 0014.5MM PVC PIPE
1817.85	1817.85	1817.85	0.00	1817.85	PH10 0014.5MM PVC PIPE
1817.79	1817.79	1817.79	0.00	1817.79	PH10 0014.5MM PVC PIPE
1817.58	1817.58	1817.58	0.00	1817.58	PH10 0014.5MM PVC PIPE
1817.45	1817.45	1817.45	0.00	1817.45	PH10 0014.5MM PVC PIPE

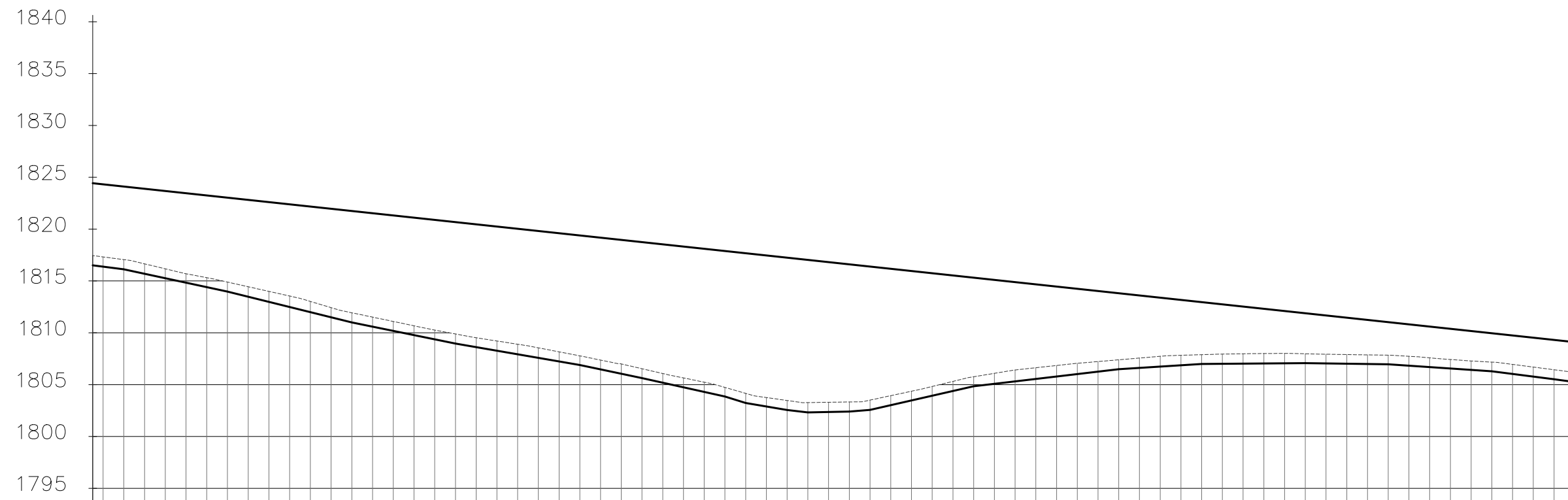
Thome tank supply line 1  
 SCALE: HOR 1:2000 VERT 1:1000



MATCH LINE - 1  
STATION - 1+830.00  
SHEET NUMBER - ###

- 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
  - WO1 — WASHOUT TYPE 1
  - WO2 — 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			

DISTANCE DATUM (m)	GROUND LEVELS (m)	INVERT LEVELS(m)	DEPTH FROM GROUND LEVEL TO INVERT LEVEL (m)	HGL(m)	TYPE OF PIPE AND SIZE
1817.45	1816.51	1817.45	1817.45	1817.45	PH10 0063MM HDPE PIPE
1817.32	1816.38	1817.32	1817.32	1817.32	
1817.06	1816.13	1817.06	1817.06	1817.06	
1816.65	1815.70	1816.65	1816.65	1816.65	
1816.17	1815.27	1816.17	1816.17	1816.17	
1815.70	1814.84	1815.70	1815.70	1815.70	
1815.32	1814.41	1815.32	1815.32	1815.32	
1814.89	1813.98	1814.89	1814.89	1814.89	
1814.44	1813.48	1814.44	1814.44	1814.44	
1814.00	1812.99	1814.00	1814.00	1814.00	
1813.55	1812.49	1813.55	1813.55	1813.55	
1813.03	1811.99	1813.03	1813.03	1813.03	
1812.43	1811.50	1812.43	1812.43	1812.43	
1811.93	1811.00	1811.93	1811.93	1811.93	
1811.51	1810.59	1811.51	1811.51	1811.51	
1811.09	1810.18	1811.09	1811.09	1811.09	
1810.68	1809.78	1810.68	1810.68	1810.68	
1810.26	1809.37	1810.26	1810.26	1810.26	
1809.89	1808.96	1809.89	1809.89	1809.89	
1809.52	1808.61	1809.52	1809.52	1809.52	
1809.21	1808.27	1809.21	1809.21	1809.21	
1808.90	1807.92	1808.90	1808.90	1808.90	
1808.55	1807.58	1808.55	1808.55	1808.55	
1808.16	1807.24	1808.16	1808.16	1808.16	
1807.78	1806.89	1807.78	1807.78	1807.78	
1807.37	1806.47	1807.37	1807.37	1807.37	
1807.00	1806.05	1807.00	1807.00	1807.00	
1806.53	1805.63	1806.53	1806.53	1806.53	
1806.07	1805.18	1806.07	1806.07	1806.07	
1805.65	1804.74	1805.65	1805.65	1805.65	
1805.24	1804.30	1805.24	1805.24	1805.24	
1804.73	1803.86	1804.73	1804.73	1804.73	
1804.16	1803.23	1804.16	1804.16	1804.16	
1803.75	1802.89	1803.75	1803.75	1803.75	
1803.47	1802.55	1803.47	1803.47	1803.47	
1803.27	1802.32	1803.27	1803.27	1803.27	
1803.30	1802.36	1803.30	1803.30	1803.30	
1803.33	1802.41	1803.33	1803.33	1803.33	
1803.51	1802.56	1803.51	1803.51	1803.51	
1803.94	1803.02	1803.94	1803.94	1803.94	
1804.36	1803.48	1804.36	1804.36	1804.36	
1804.82	1803.93	1804.82	1804.82	1804.82	
1805.31	1804.39	1805.31	1805.31	1805.31	
1805.76	1804.84	1805.76	1805.76	1805.76	
1806.09	1805.08	1806.09	1806.09	1806.09	
1806.41	1805.31	1806.41	1806.41	1806.41	
1806.63	1805.55	1806.63	1806.63	1806.63	
1806.85	1805.78	1806.85	1806.85	1806.85	
1807.06	1806.02	1807.06	1807.06	1807.06	
1807.23	1806.25	1807.23	1807.23	1807.23	
1807.40	1806.49	1807.40	1807.40	1807.40	
1807.56	1806.61	1807.56	1807.56	1807.56	
1807.73	1806.74	1807.73	1807.73	1807.73	
1807.83	1806.86	1807.83	1807.83	1807.83	
1807.89	1806.99	1807.89	1807.89	1807.89	
1807.95	1807.01	1807.95	1807.95	1807.95	
1807.98	1807.02	1807.98	1807.98	1807.98	
1808.00	1807.04	1808.00	1808.00	1808.00	
1808.01	1807.06	1808.01	1808.01	1808.01	
1807.98	1807.08	1807.98	1807.98	1807.98	
1807.93	1807.05	1807.93	1807.93	1807.93	
1807.90	1807.02	1807.90	1807.90	1807.90	
1807.87	1806.99	1807.87	1806.99	1807.87	
1807.84	1806.97	1807.84	1806.97	1807.84	
1807.74	1806.83	1807.74	1806.83	1807.74	
1807.59	1806.69	1807.59	1806.69	1807.59	
1807.42	1806.56	1807.42	1806.56	1807.42	
1807.28	1806.42	1807.28	1806.42	1807.28	
1807.17	1806.29	1807.17	1806.29	1807.17	
1806.95	1806.03	1806.95	1806.03	1806.95	
1806.70	1805.78	1806.70	1805.78	1806.70	
1806.44	1805.52	1806.44	1805.52	1806.44	
1806.18	1805.25	1806.18	1805.25	1806.18	

Thome tank supply line 1  
SCALE: HOR 1:2000 VERT 1:1000

CLIENT

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

PROJECT

DESIGNS FOR AUGMENTATION OF  
TIGITHI-HUMUKA WATER PROJECT

Civil/Structural Engineers

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

Drawing Title

THOME TANK SUPPLY  
LINE 1  
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.TWWD/THWP/TTS1/02
CO	REV