

NOTES:

LEGEND:

REVISIONS				SIGN	DATE	APPROVED
	BY					
	CHECKED					
	BY					
	CHECKED					
	BY					
	CHECKED					

CLIENT:  

**LIMURU WATER AND SEWERAGE CO. LTD**  
 MAJI CENTRE,  
 P.O. BOX 1286 - 00217 LIMURU  
 TEL: 020 2374345, +254 725054212  
 EMAIL: llwaseco@yahoo.com

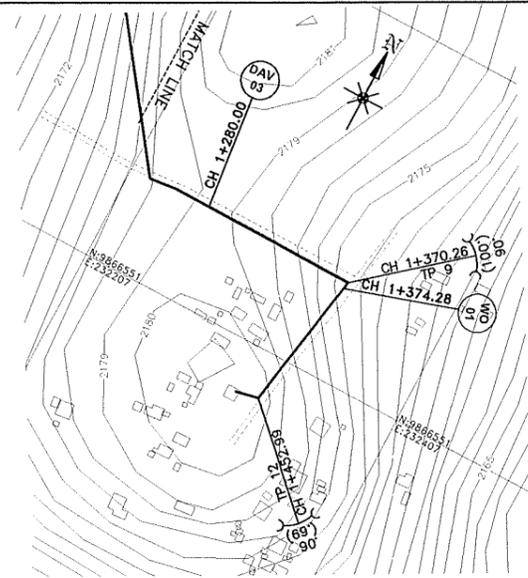
PROJECT NAME:  
**REHABILITATION WORKS FOR NGUIRUBI BOREHOLE**

DRAWING TITLE:  
**BOREHOLE SITE LAYOUT PLAN**

Designed by: J.O	Drawn by: J.O
Checked by: F.M.G	Approved by: F.M.G
Scale: NOT TO SCALE	Date: FEBRUARY 2026

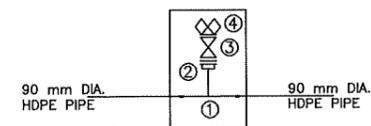
DRG No. NGUIRUBI/LAYOUT | REV. 0





**PLAN**

DETAIL CH. 1+280.00  
LINE N01 -TEE & DAV -03

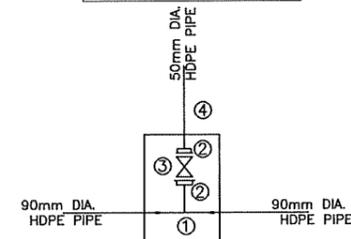


**DESCRIPTION**

1 No. REQUIRED

- ① 1 Nos. 90x50mm DIA. HDPE TEE
- ② 1 Nos. 50mm DIA. P.E FLANGE ADAPTOR(STUB END) COMPLETE WITH METAL BACK UP RING
- ③ 1 No. 50mm DIA. ALL FLANGED GATE VALVE WITH BUILT IN ISOLATING VALVE
- ④ 1 No. 50mm DIA. FLANGED DOUBLE ORIFICE AIR VALVE

DETAIL CH. 1+374.28  
LINE N01 -TEE & GV (WO)-01

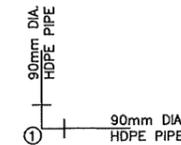


**DESCRIPTION**

1 No. REQUIRED

- ① 1 Nos. 90mm X 90mm DIA. HDPE LEVEL INVERT TEE
- ② 2 Nos. 90mm DIA. P.E FLANGE ADAPTOR(STUB END) COMPLETE WITH METAL BACK UP RING
- ③ 1 No. 80mm DIA. ALL FLANGED GATE VALVE
- ④ 1 No. 90mm DIA. HDPE PN 10 PIPE (LENGTH TO SUIT ON SITE)

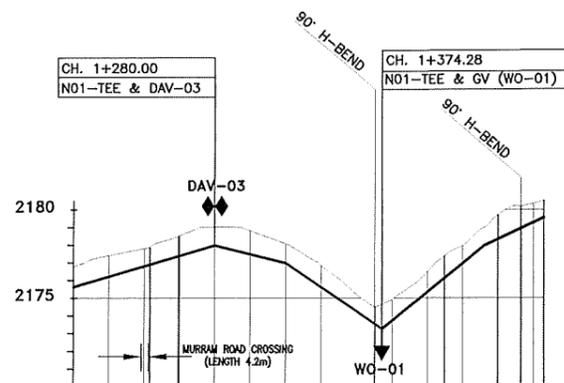
DETAIL CH. 1+370.26 & 1+452.99  
LINE N01 -90° H. BEND



**DESCRIPTION**

2 No. REQUIRED

- ① 1 No. 90mm DIA. 90° HDPE BEND



DATUM (m)	OD 90 HDPE PN 16 PIPE																					
TYPE AND SIZE OF PIPE	OD 90 HDPE PN 16 PIPE																					
GEOLOGICAL CONDITION	RED SOIL																					
EXISTING GROUND LEVEL (m)	2176.78	2177.41	2177.81	2177.87	2178.53	2178.53	2178.03	2178.82	2178.08	2176.82	2175.19	2174.49	2174.91	2176.50	2176.14	2177.39	2177.97	2179.00	2180.19	2180.36	2180.59	
INVERT LEVEL (m)	2175.63	2176.22	2176.81	2176.80	2177.30	2177.40	2176.53	2177.99	2177.49	2176.99	2175.62	2174.24	2173.54	2174.49	2175.35	2176.14	2176.98	2177.97	2179.00	2180.19	2180.36	2180.59
CHAINAGE (m)	1+200.00	1+220.00	1+240.00	1+252.52	1+265.53	1+280.00	1+300.00	1+320.00	1+340.00	1+360.00	1+370.26	1+380.00	1+400.00	1+409.68	1+420.00	1+432.15	1+440.00	1+452.99	1+460.00	1+465.94	1+465.94	1+465.94
DEPTH OF INVERT (m)	1.15	1.19	1.00	0.97	1.13	1.13	1.04	1.33	1.09	1.09	1.21	0.95	0.95	1.19	1.15	1.25	0.99	1.03	1.24	1.24	1.24	0.94
SLOPE OF PIPE (H/V)	1:33.96				-1:40.17				-1:14.55				1:12.29				1:21.21					
REFERENCE PEG NO.	TP 7		TP 8						TP 9		TP 10		TP 11		TP 12							

**LONGITUDINAL SECTION**

**NOTES:**

1. CONTOUR LEVELS ARE IN METERS AT ONE METER INTERVAL.
2. GRID VALUES ARE IN METERS AT 200 METERS INTERVAL.
3. GEOLOGICAL CONDITIONS INDICATED ON DRAWING ARE FOR GENERAL GUIDANCE ONLY.
4. MINIMUM PIPELINE SLOPES TO BE 1:500.
5. ALL PIPE FITTINGS TO BE CONFIRMED ON SITE DURING SETTING OUT.

**LEGEND:**

- ROAD (TARMAC)
- ROAD / TRACK (EARTH / MURRAM)
- 2.35 CONTOURS, 1m INTERVAL
- BUILDING
- PROPOSED WATER PIPELINE
- HORIZONTAL BEND (H) OR VERTICAL BEND (V) WITH ANGLE INDICATED
- TP10 TRAVERSE POINT & No.
- PROPOSED MASONRY CHAMBER
- PIPELINE GRADIENT WITH SLOPE DIRECTION (SLOPE MIN. OR 1 IN n)
- WO-01 WASHOUT VALVE & No.
- DAV-01 AIR VALVE & No.

**EMPLOYER:**

**THE MANAGING DIRECTOR,  
LIMURU WATER AND SEWERAGE  
COMPANY LIMITED (LIWASCO)**  
Email: info@limuruwater.go.ke  
Tel: (254) 725054212

**CONSULTANT:**

**Terra  
CABRELO**  
TERRA CABRELO LIMITED  
P.O. Box 42,658 - GPO, Nairobi  
Email: sales@terracabrelo.com  
Tel: (254) 732603871

**PROJECT NAME:**

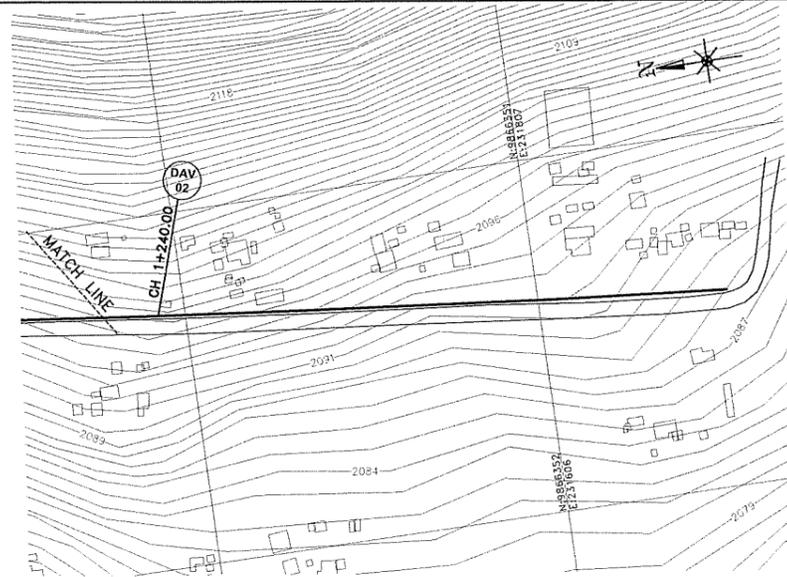
NGUIRUBI REHABILITATION WORKS

**DRAWING TITLE:**

LINE N01  
PLAN & LONGITUDINAL SECTION  
CH. 1+200.00 - 1+465.94  
SHEET 2 OF 2

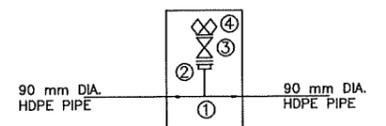
Designed by: O.V	Approved by: F.M
Scale: Hor: 1:500 Ver: 1:400	Date: FEBRUARY 2025
DRG No. LW/RW/N01/02	REV





**PLAN**

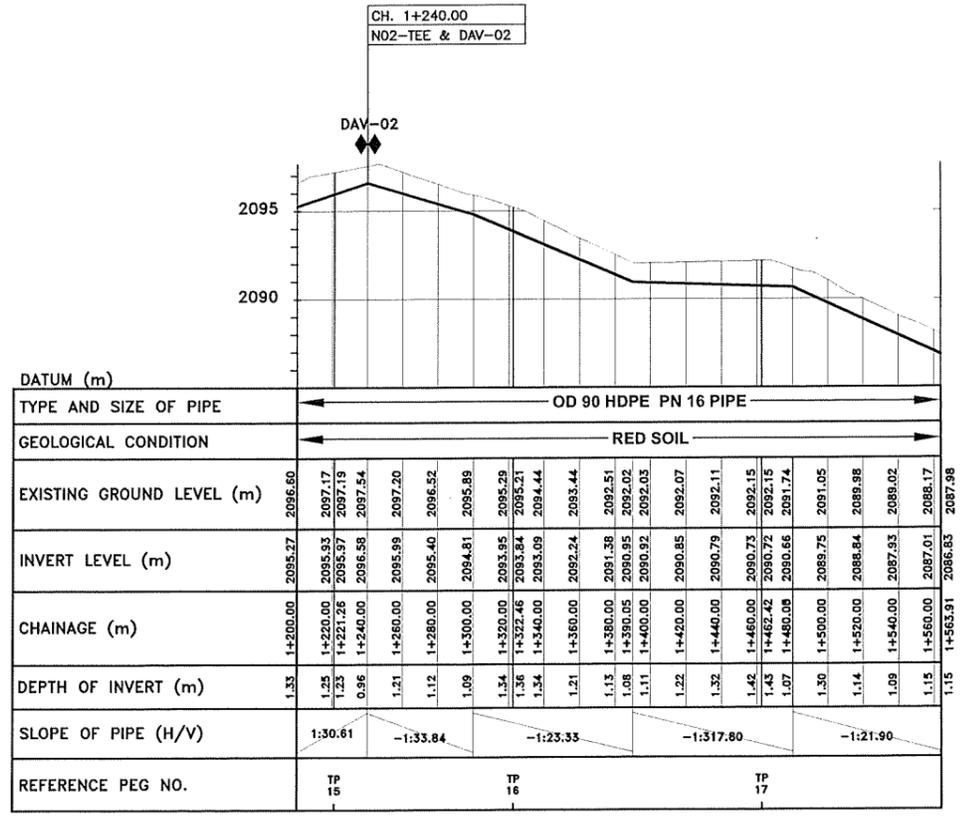
DETAIL CH. 1+240.00  
LINE N02 -TEE & DAV - 02



- DESCRIPTION**
- 1. No. REQUIRED**
- ① 1 Nos. 90x50mm DIA. HDPE TEE
  - ② 1 Nos. 50mm DIA. P.E FLANGE ADAPTOR(STUB END) COMPLETE WITH METAL BACK UP RING
  - ③ 1 No. 50mm DIA. ALL FLANGED GATE VALVE WITH BUILT IN ISOLATING VALVE
  - ④ 1 No. 50mm DIA. FLANGED DOUBLE ORIFICE AIR VALVE

- NOTES:**
1. CONTOUR LEVELS ARE IN METERS AT ONE METER INTERVAL.
  2. GRID VALUES ARE IN METERS AT 200 METERS INTERVAL.
  3. GEOLOGICAL CONDITIONS INDICATED ON DRAWING ARE FOR GENERAL GUIDANCE ONLY.
  4. MINIMUM PIPELINE SLOPES TO BE 1:500.
  5. ALL PIPE FITTINGS TO BE CONFIRMED ON SITE DURING SETTING OUT.

- LEGEND:**
- ==== ROAD (TARMAC)
  - ROAD / TRACK (EARTH / MURRAM)
  - 1:2.35 --- CONTOURS, 1m INTERVAL
  - BUILDING
  - PROPOSED WATER PIPELINE
  - ⤵ 30° HORIZONTAL BEND (H) OR VERTICAL BEND (V) WITH ANGLE INDICATED
  - TP10 TRAVERSE POINT & No.
  - PROPOSED MASONRY CHAMBER
  - ▱ PIPELINE GRADIENT WITH SLOPE DIRECTION (SLOPE MIN. OR 1 IN n)
  - WO-01 WASHOUT VALVE & No.
  - DAV-01 AIR VALVE & No.



**LONGITUDINAL SECTION**

**EMPLOYER:**  

 THE MANAGING DIRECTOR,  
 LIMURU WATER AND SEWERAGE  
 COMPANY LIMITED (LIWASCO)  
 Email: info@limuruwater.go.ke  
 Tel: (254) 725054212

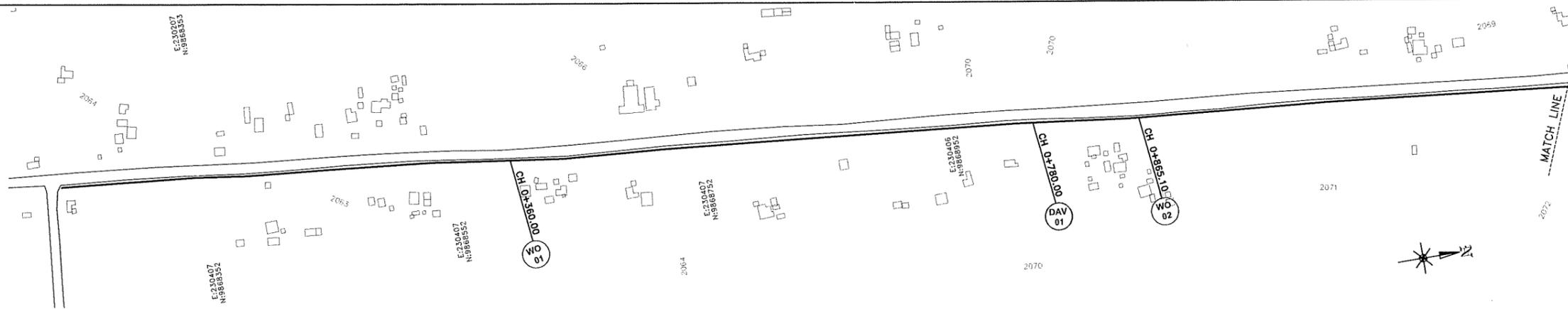
**CONSULTANT:**  

 TERRA CABRELO LIMITED  
 P.O Box 42,658 - GPO,Nairobi  
 Email: sales@terraccabrelo.com  
 Tel: (254) 732603871

**PROJECT NAME:**  
 NGURUBI REHABILITATION WORKS

**DRAWING TITLE:**  
 LINE N02  
 PLAN & LONGITUDINAL SECTION  
 CH. 1+200.00 - 1+563.91  
 SHEET 2 OF 2

Designed by: O.V	Approved by: F.M
Scale: Hor: 1:500 Ver: 1:500	Date: FEBRUARY 2026
DRG No. LW/RW/N02/02	REV

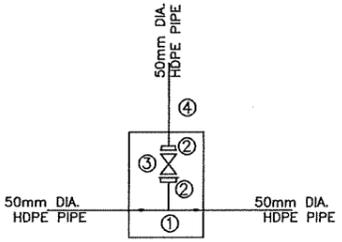


**PLAN**

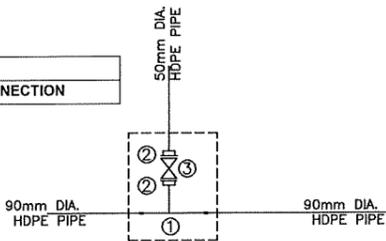
- NOTES:**
1. CONTOUR LEVELS ARE IN METERS AT ONE METER INTERVAL.
  2. GRID VALUES ARE IN METERS AT 200 METERS INTERVAL.
  3. GEOLOGICAL CONDITIONS INDICATED ON DRAWING ARE FOR GENERAL GUIDANCE ONLY.
  4. MINIMUM PIPELINE SLOPES TO BE 1:500.
  5. ALL PIPE FITTINGS TO BE CONFIRMED ON SITE DURING SETTING OUT.

- LEGEND:**
- ROAD (TARMAC)
  - ROAD / TRACK (EARTH / MURRAM)
  - CONTOURS, 1m INTERVAL
  - BUILDING
  - PROPOSED WATER PIPELINE
  - HORIZONTAL BEND (H) OR VERTICAL BEND (V) WITH ANGLE INDICATED
  - TP10 TRAVERSE POINT & No.
  - PROPOSED MASONRY CHAMBER
  - PIPELINE GRADIENT WITH SLOPE DIRECTION (SLOPE MIN. OR 1 IN n)
  - WO-01 WASHOUT VALVE & No.
  - DAV-01 AIR VALVE & No.

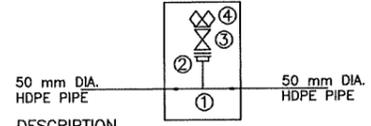
DETAIL CH. 0+360.00 & 0+865.10  
LINE N03 - TEE & GV (WO) -01 & 02



DETAIL CH. 0+000.00  
LINE N03 - INTERCONNECTION



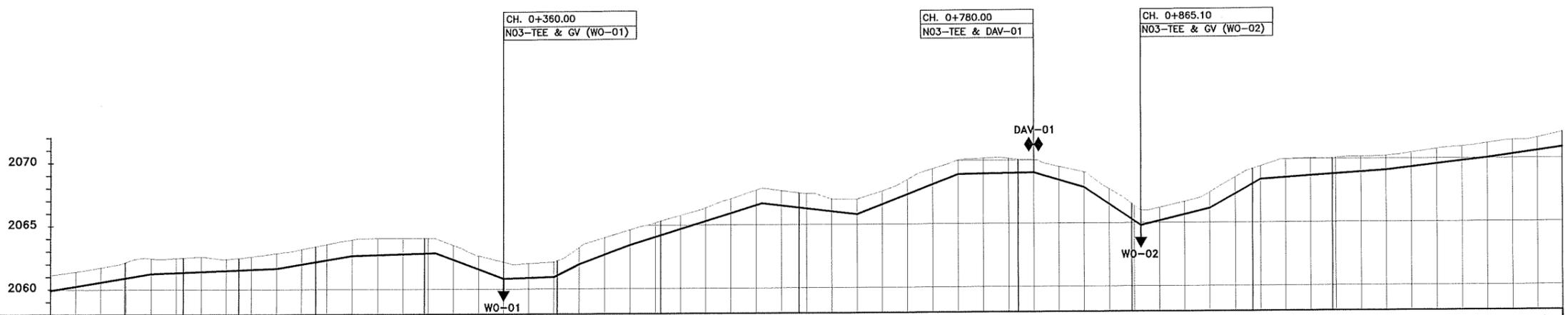
DETAIL CH. 0+780.00  
LINE N03 - TEE & DAV - 01



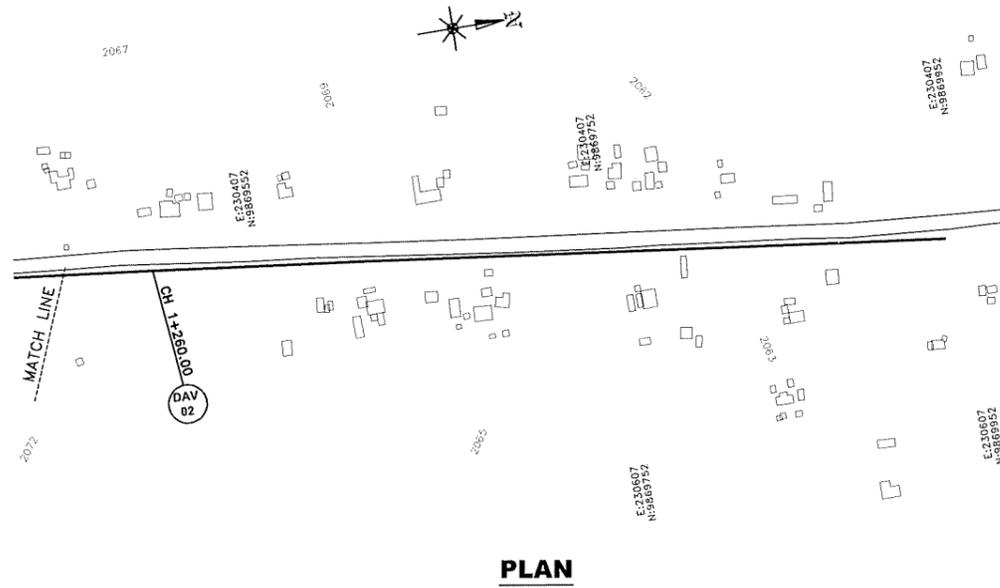
- DESCRIPTION**  
2 No. REQUIRED
- 1 Nos. 50mm X 50mm DIA. HDPE LEVEL INVERT TEE
  - 2 Nos. 50mm DIA. P.E. FLANGE ADAPTOR (STUB END) COMPLETE WITH METAL BACK UP RING
  - 3 1 No. 50mm DIA. ALL FLANGED GATE VALVE
  - 4 1 No. 50mm DIA. HDPE PN 10 PIPE (LENGTH TO SUIT ON SITE)

- DESCRIPTION**  
1 No. REQUIRED
- 1 Nos. 90mm X 50mm DIA. HDPE TEE
  - 2 Nos. 50mm DIA. P.E. FLANGE ADAPTOR (STUB END) COMPLETE WITH METAL BACK UP RING
  - 3 1 No. 50mm DIA. ALL FLANGED GATE VALVE

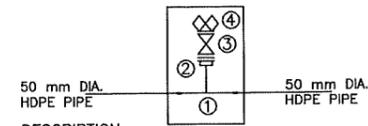
- DESCRIPTION**  
1 No. REQUIRED
- 1 Nos. 50x50mm DIA. HDPE TEE
  - 1 Nos. 50mm DIA. P.E. FLANGE ADAPTOR (STUB END) COMPLETE WITH METAL BACK UP RING
  - 1 No. 50mm DIA. ALL FLANGED GATE VALVE WITH BUILT IN ISOLATING VALVE
  - 1 No. 50mm DIA. FLANGED DOUBLE ORIFICE AIR VALVE



DATUM (m)	2060																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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EXISTING GROUND LEVEL (m)	2061.13	2061.42	2061.74	2062.15	2062.45	2062.48	2062.51	2062.59	2062.40	2062.47	2062.59	2062.85	2063.17	2063.39	2063.56	2063.91	2064.02	2064.03	2064.02	2064.06	2064.19	2064.32	2064.47	2064.69	2064.76	2065.36	2065.94	2067.06	2067.75	2067.90	2067.70	2067.51	2067.47	2067.01	2067.00	2067.63	2068.52	2069.36	2070.03	2070.17	2070.15	2070.06	2070.02	2069.48	2069.04	2067.68	2066.52	2066.30	2066.00	2066.20	2066.67	2066.87	2067.41	2068.58	2069.24	2069.45	2070.00	2070.03	2070.05	2070.07	2070.18	2070.22	2070.46	2070.75	2070.94	2071.19	2071.42	2071.61	2072.05																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
INVERT LEVEL (m)	2059.83	2060.26	2060.59	2060.91	2061.25	2061.33	2061.36	2061.41	2061.49	2061.53	2061.57	2061.65	2061.98	2062.17	2062.31	2062.54	2062.71	2062.77	2062.83	2062.86	2062.86	2062.92	2062.97	2063.00	2063.06	2063.11	2063.19	2063.44	2064.06	2064.69	2065.31	2065.94	2066.04	2066.28	2066.43	2066.58	2066.84	2066.94	2067.00	2067.04	2067.08	2067.14	2067.27	2067.30	2067.34	2067.40	2067.44	2067.48	2067.54	2067.58	2067.64	2067.68	2067.74	2067.78	2067.84	2067.88	2067.94	2067.98	2068.04	2068.08	2068.14	2068.18	2068.24	2068.28	2068.34	2068.38	2068.44	2068.48	2068.54	2068.58	2068.64	2068.68	2068.74	2068.78	2068.84	2068.88	2068.94	2068.98	2069.04	2069.08	2069.14	2069.18	2069.24	2069.28	2069.34	2069.38	2069.44	2069.48	2069.54	2069.58	2069.64	2069.68	2069.74	2069.78	2069.84	2069.88	2069.94	2069.98	2070.04	2070.08	2070.14	2070.18	2070.24	2070.28	2070.34	2070.38	2070.44	2070.48	2070.54	2070.58	2070.64	2070.68	2070.74	2070.78	2070.84	2070.88	2070.94	2070.98	2071.04	2071.08	2071.14	2071.18	2071.24	2071.28	2071.34	2071.38	2071.44	2071.48	2071.54	2071.58	2071.64	2071.68	2071.74	2071.78	2071.84	2071.88	2071.94	2071.98	2072.04	2072.08	2072.14	2072.18	2072.24	2072.28	2072.34	2072.38	2072.44	2072.48	2072.54	2072.58	2072.64	2072.68	2072.74	2072.78	2072.84	2072.88	2072.94	2072.98	2073.04	2073.08	2073.14	2073.18	2073.24	2073.28	2073.34	2073.38	2073.44	2073.48	2073.54	2073.58	2073.64	2073.68	2073.74	2073.78	2073.84	2073.88	2073.94	2073.98	2074.04	2074.08	2074.14	2074.18	2074.24	2074.28	2074.34	2074.38	2074.44	2074.48	2074.54	2074.58	2074.64	2074.68	2074.74	2074.78	2074.84	2074.88	2074.94	2074.98	2075.04	2075.08	2075.14	2075.18	2075.24	2075.28	2075.34	2075.38	2075.44	2075.48	2075.54	2075.58	2075.64	2075.68	2075.74	2075.78	2075.84	2075.88	2075.94	2075.98	2076.04	2076.08	2076.14	2076.18	2076.24	2076.28	2076.34	2076.38	2076.44	2076.48	2076.54	2076.58	2076.64	2076.68	2076.74	2076.78	2076.84	2076.88	2076.94	2076.98	2077.04	2077.08	2077.14	2077.18	2077.24	2077.28	2077.34	2077.38	2077.44	2077.48	2077.54	2077.58	2077.64	2077.68	2077.74	2077.78	2077.84	2077.88	2077.94	2077.98	2078.04	2078.08	2078.14	2078.18	2078.24	2078.28	2078.34	2078.38	2078.44	2078.48	2078.54	2078.58	2078.64	2078.68	2078.74	2078.78	2078.84	2078.88	2078.94	2078.98	2079.04	2079.08	2079.14	2079.18	2079.24	2079.28	2079.34	2079.38	2079.44	2079.48	2079.54	2079.58	2079.64	2079.68	2079.74	2079.78	2079.84	2079.88	2079.94	2079.98	2080.04	2080.08	2080.14	2080.18	2080.24	2080.28	2080.34	2080.38	2080.44	2080.48	2080.54	2080.58	2080.64	2080.68	2080.74	2080.78	2080.84	2080.88	2080.94	2080.98	2081.04	2081.08	2081.14	2081.18	2081.24	2081.28	2081.34	2081.38	2081.44	2081.48	2081.54	2081.58	2081.64	2081.68	2081.74	2081.78	2081.84	2081.88	2081.94	2081.98	2082.04	2082.08	2082.14	2082.18	2082.24	2082.28	2082.34	2082.38	2082.44	2082.48	2082.54	2082.58	2082.64	2082.68	2082.74	2082.78	2082.84	2082.88	2082.94	2082.98	2083.04	2083.08	2083.14	2083.18	2083.24	2083.28	2083.34	2083.38	2083.44	2083.48	2083.54	2083.58	2083.64	2083.68	2083.74	2083.78	2083.84	2083.88	2083.94	2083.98	2084.04	2084.08	2084.14	2084.18	2084.24	2084.28	2084.34	2084.38	2084.44	2084.48	2084.54	2084.58	2084.64	2084.68	2084.74	2084.78	2084.84	2084.88	2084.94	2084.98	2085.04	2085.08	2085.14	2085.18	2085.24	2085.28	2085.34	2085.38	2085.44	2085.48	2085.54	2085.58	2085.64	2085.68	2085.74	2085.78	2085.84	2085.88	2085.94	2085.98	2086.04	2086.08	2086.14	2086.18	2086.24	2086.28	2086.34	2086.38	2086.44	2086.48	2086.54	2086.58	2086.64	2086.68	2086.74	2086.78	2086.84	2086.88	2086.94	2086.98	2087.04	2087.08	2087.14	2087.18	2087.24	2087.28	2087.34	2087.38	2087.44	2087.48	2087.54	2087.58	2087.64	2087.68	2087.74	2087.78	2087.84	2087.88	2087.94	2087.98	2088.04	2088.08	2088.14	2088.18	2088.24	2088.28	2088.34	2088.38	2088.44	2088.48	2088.54	2088.58	2088.64	2088.68	2088.74	2088.78	2088.84	2088.88	2088.94	2088.98	2089.04	2089.08	2089.14	2089.18	2089.24	2089.28	2089.34	2089.38	2089.44	2089.48	2089.54	2089.58	2089.64	2089.68	2089.74	2089.78	2089.84	2089.88	2089.94	2089.98	2090.04	2090.08	2090.14	2090.18	2090.24	2090.28	2090.34	2090.38	2090.44	2090.48	2090.54	2090.58	2090.64	2090.68	2090.74	2090.78	2090.84	2090.88	2090.94	2090.98	2091.04	2091.08	2091.14	2091.18	2091.24	2091.28	2091.34	2091.38	2091.44	2091.48	2091.54	2091.58	2091.64	2091.68	2091.74	2091.78	2091.84	2091.88	2091.94	2091.98	2092.04	2092.08	2092.14	2092.18	2092.24	2092.28	2092.34	2092.38	2092.44	2092.48	2092.54	2092.58	2092.64	2092.68	2092.74	2092.78	2092.84	2092.88	2092.94	2092.98	2093.04	2093.08	2093.14	2093.18	2093.24	2093.28	2093.34	2093.38	2093.44	2093.48	2093.54	2093.58	2093.64	2093.68	2093.74	2093.78	2093.84	2093.88	2093.94	2093.98	2094.04	2094.08	2094.14	2094.18	2094.24	2094.28	2094.34	2094.38	2094.44	2094.48	2094.54	2094.58	2094.64	2094.68	2094.74	2094.78	2094.84	2094.88	2094.94	2094.98	2095.04	2095.08	2095.14	2095.18	2095.24	2095.28	2095.34	2095.38	2095.44	2095.48	2095.54	2095.58	2095.64	2095.68	2095.74	2095.78	2095.84	2095.88	2095.94	2095.98	2096.04	2096.08	2096.14	2096.18	2096.24	2096.28	2096.34	2096.38	2096.44	2096.48	2096.54	2096.58	2096.64	2096.68	2096.74	2096.78	2096.84	2096.88	2096.94	2096.98	2097.04	2097.08	2097.14	2097.18	2097.24	2097.28	2097.34	2097.38	2097.44	2097.48	2097.54	2097.58	2097.64	2097.68	2097.74	2097.78	2097.84	2097.88	2097.94	2097.98	2098.04	2098.08	2098.14	2098.18	2098.24	2098.28	2098.34	2098.38	2098.44	2098.48	2098.54	2098.58	2098.64	2098.68	2098.74	2098.78	2098.84	2098.88	2098.94	2098.98	2099.04	2099.08	2099.14	2099.18	2099.24	2099.28	2099.34	2099.38	2099.44	2099.48	2099.54	2099.58	2099.64	2099.68	2099.74	2099.78	2099.84	2099.88	2099.94	2099.98	2100.04	2100.08	2100.14	2100.18	2100.24	2100.28	2100.34	2100.38	2100.44	2100.48	2100.54	2100.58	2100.64	2100.68	2100.74	2100.78	2100.84	2100.88	2100.94	2100.98	2101.04	2101.08	2101.14	2101.18	2101.24	2101.28	2101.34	2101.38	2101.44	2101.48	2101.54	2101.58	2101.64	2101.68	2101.74	2101.78	2101.84	2101.88	2101.94	2101.98	2102.04	2102.08	2102.14	2102.18	2102.24	2102.28	2102.34	2102.38	2102.44	2102.48	2102.54	2102.58	2102.64	2102.68	2102.74	2102.78	2102.84	2102.88	2102.94	2102.98	2103.04	2103.08	2103.14	2103.18	2103.24	2103.28	2103.34	2103.38	2103.44	2103.48	2103.54	2103.58	2103.64	2103.68	2103.74	2103.78	2103.84	2103.88	2103.94	2103.98	2104.04	2104.08	2104.14	2104.18	2104.24	2104.28	2104.34	2104.38	2104.44	2104.48	2104.54	2104.58	2104.64	2104.68	2104.74	2104.78	2104.84	2104.88	2104.94	2104.98	2105.04



DETAIL CH. 1+260.00  
LINE N03 - TEE & DAV - 02



DESCRIPTION

1. No. REQUIRED

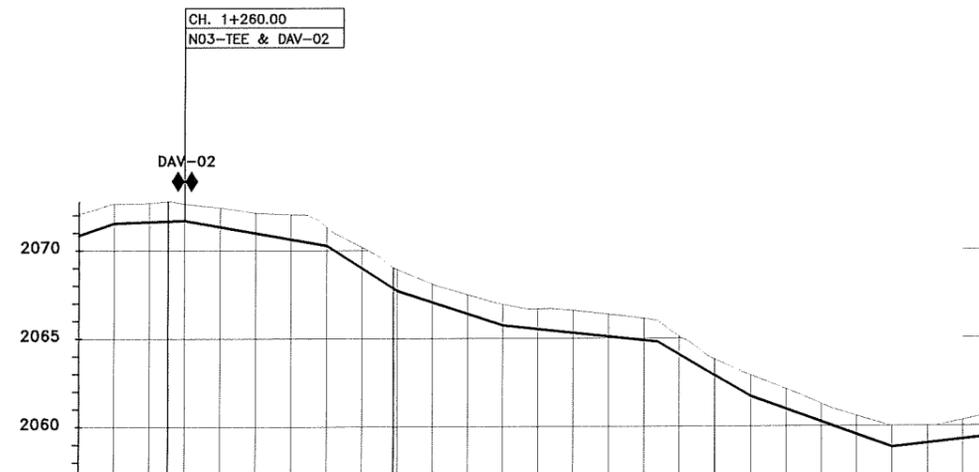
- ① 1 Nos. 50x50mm DIA. HDPE TEE
- ② 1 Nos. 50mm DIA. P.E FLANGE ADAPTOR(STUB END) COMPLETE WITH METAL BACK UP RING
- ③ 1 No. 50mm DIA. ALL FLANGED GATE VALVE WITH BUILT IN ISOLATING VALVE
- ④ 1 No. 50mm DIA. FLANGED DOUBLE ORIFICE AIR VALVE

NOTES:

1. CONTOUR LEVELS ARE IN METERS AT ONE METER INTERVAL.
2. GRID VALUES ARE IN METERS AT 200 METERS INTERVAL.
3. GEOLOGICAL CONDITIONS INDICATED ON DRAWING ARE FOR GENERAL GUIDANCE ONLY.
4. MINIMUM PIPELINE SLOPES TO BE 1:500.
5. ALL PIPE FITTINGS TO BE CONFIRMED ON SITE DURING SETTING OUT.

LEGEND:

- ROAD (TARMAC)
- ROAD / TRACK (EARTH / MURRAM)
- CONTOURS, 1m INTERVAL
- BUILDING
- PROPOSED WATER PIPELINE
- HORIZONTAL BEND (H) OR VERTICAL BEND (V) WITH ANGLE INDICATED
- TRAVERSE POINT & No.
- PROPOSED MASONRY CHAMBER
- PIPELINE GRADIENT WITH SLOPE DIRECTION (SLOPE MIN. OR 1 IN n)
- WASHOUT VALVE & No.
- AIR VALVE & No.



DATUM (m)	CH. 1+200.00 N03-TEE & DAV-02																														
TYPE AND SIZE OF PIPE	OD 50 HDPE PN 16 PIPE																														
GEOLOGICAL CONDITION	RED SOIL																														
EXISTING GROUND LEVEL (m)	2072.06	2072.63	2072.68	2072.77	2072.84	2072.41	2072.12	2072.03	2071.32	2070.18	2069.01	2068.92	2068.09	2067.48	2066.94	2066.67	2066.58	2066.36	2066.11	2066.00	2065.10	2063.81	2062.89	2062.11	2061.27	2060.58	2060.00	2060.00	2059.24	2060.32	2060.56
INVERT LEVEL (m)	2070.86	2071.54	2071.62	2071.66	2071.70	2071.34	2070.99	2070.63	2070.27	2069.00	2067.85	2067.72	2067.06	2066.40	2065.75	2065.53	2065.32	2065.10	2064.88	2064.80	2064.80	2064.08	2062.89	2062.11	2060.25	2059.52	2060.58	2060.00	2059.02	2059.24	2059.36
CHAINAGE (m)	1+200.00	1+220.00	1+240.00	1+260.00	1+280.00	1+300.00	1+320.00	1+340.00	1+360.00	1+377.83	1+390.00	1+400.00	1+420.00	1+440.00	1+460.00	1+480.00	1+500.00	1+520.00	1+527.83	1+540.00	1+560.00	1+580.00	1+600.00	1+620.00	1+640.00	1+660.00	1+680.00	1+700.00	1+711.27	1+711.27	
DEPTH OF INVERT (m)	1.20	1.09	1.06	1.10	0.94	1.06	1.14	1.40	1.04	1.19	1.16	1.20	1.03	1.08	1.19	1.14	1.27	1.26	1.23	1.20	1.03	0.92	1.20	1.13	1.02	1.06	1.20	0.88	1.08	1.20	
SLOPE OF PIPE (H/V)	1:71.88.35	1:256.54				-1:56.21			-1:15.63				-1:30.51																		1:90.74
REFERENCE PEG NO.		TP 13								TP 14																					

LONGITUDINAL SECTION

EMPLOYER: THE MANAGING DIRECTOR, LIMURU WATER AND SEWERAGE COMPANY LIMITED (LIWASCO)  
 Email: info@limuruwater.go.ke  
 Tel: (254) 725054212

CONSULTANT: TERRA CABRELO LIMITED  
 P.O Box 42,658 - GPO, Nairobi  
 Email: sales@terrabcabrelo.com  
 Tel: (254) 732603871

PROJECT NAME: NGURUBI REHABILITATION WORKS

DRAWING TITLE: LINE N03  
 PLAN & LONGITUDINAL SECTION  
 CH. 1+200.00 - 1+711.27  
 SHEET 2 OF 2

Designed by: O.V Approved by: F.M  
 Scale: Hor: 1:400 Ver: 1:400 Date: FEBRUARY 2026

DRG No. LW/RW/N03/02 REV



