

**REPUBLIC OF UGANDA**



**VOLUME 4-2: BOOK OF DRAWINGS  
(KADAMA DISTRIBUTION)**

**INTEGRATED WATER MANAGEMENT AND DEVELOPMENT PROJECT (IWMDP)**

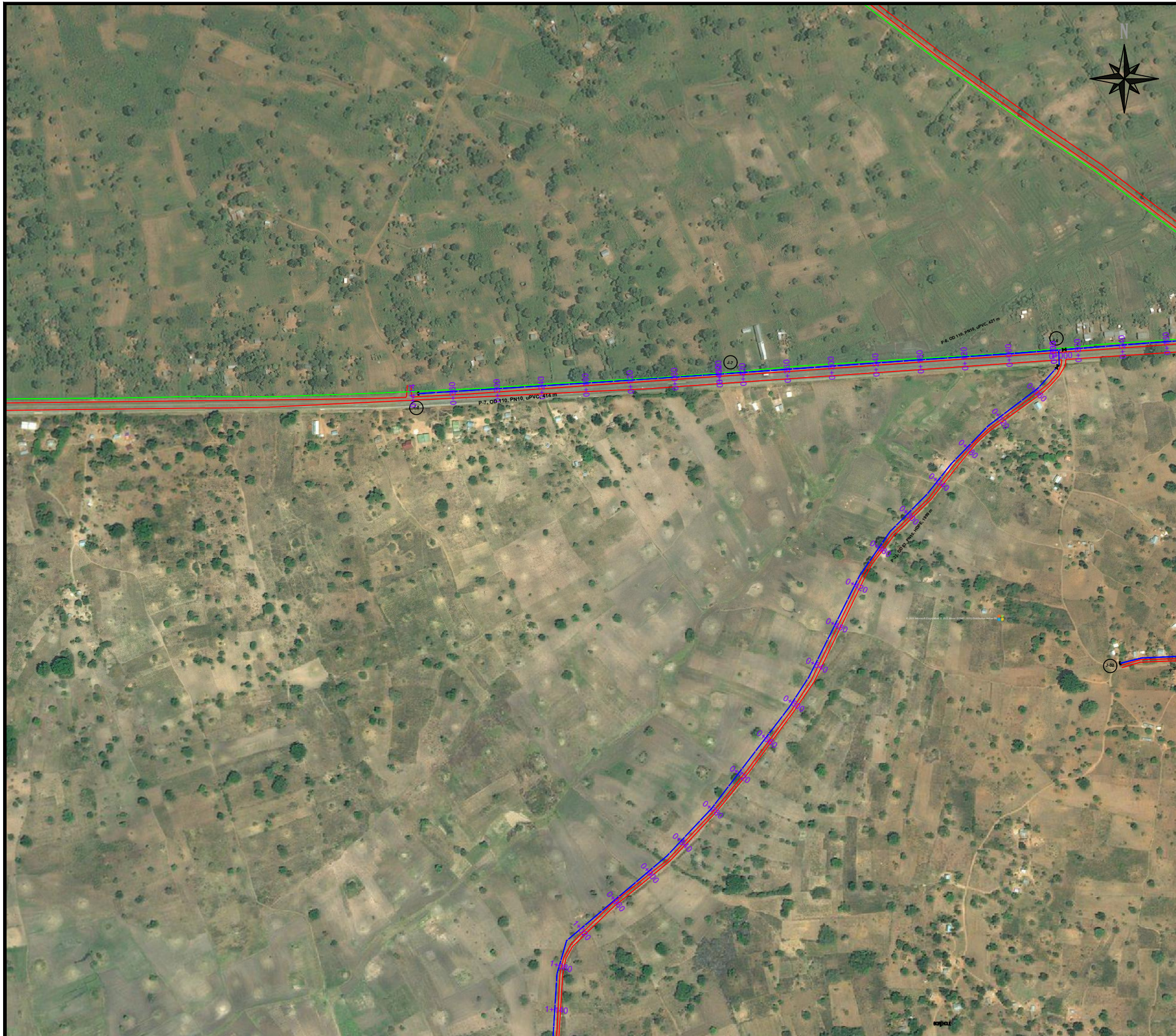
**CONSTRUCTION OF TIRINYI, KIBUKU, KADAMA AND BUDAKA WATER  
SUPPLY AND SANITATION SYSTEM**

**CONTRACT NO: MWE/WRKS/21-22/00005/1**

**SUBMITTED BY:**



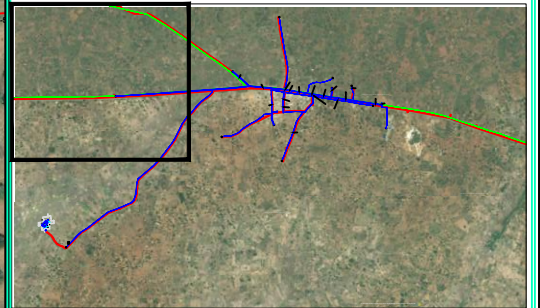
**JULY 2022**



## LEGEND

LEGEND	
	Existing pipes
	New pipes
	Replacement pipes
	Replacement A.C pipes
	Roads
	Fences
	Pressure Zones
	Rivers
	Sewer Lines
	Houses
	Junctions
	Air Valves
	Wash Outs
	Fire Hydrants
	Disconnections
	Public stand Post
	Land Marks

## KEY MAP



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MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND  
SANITATION SYSTEM IN SMALL TOWNS OF  
BUDAKA, KADAMA, KIBUKU & TIRINYI

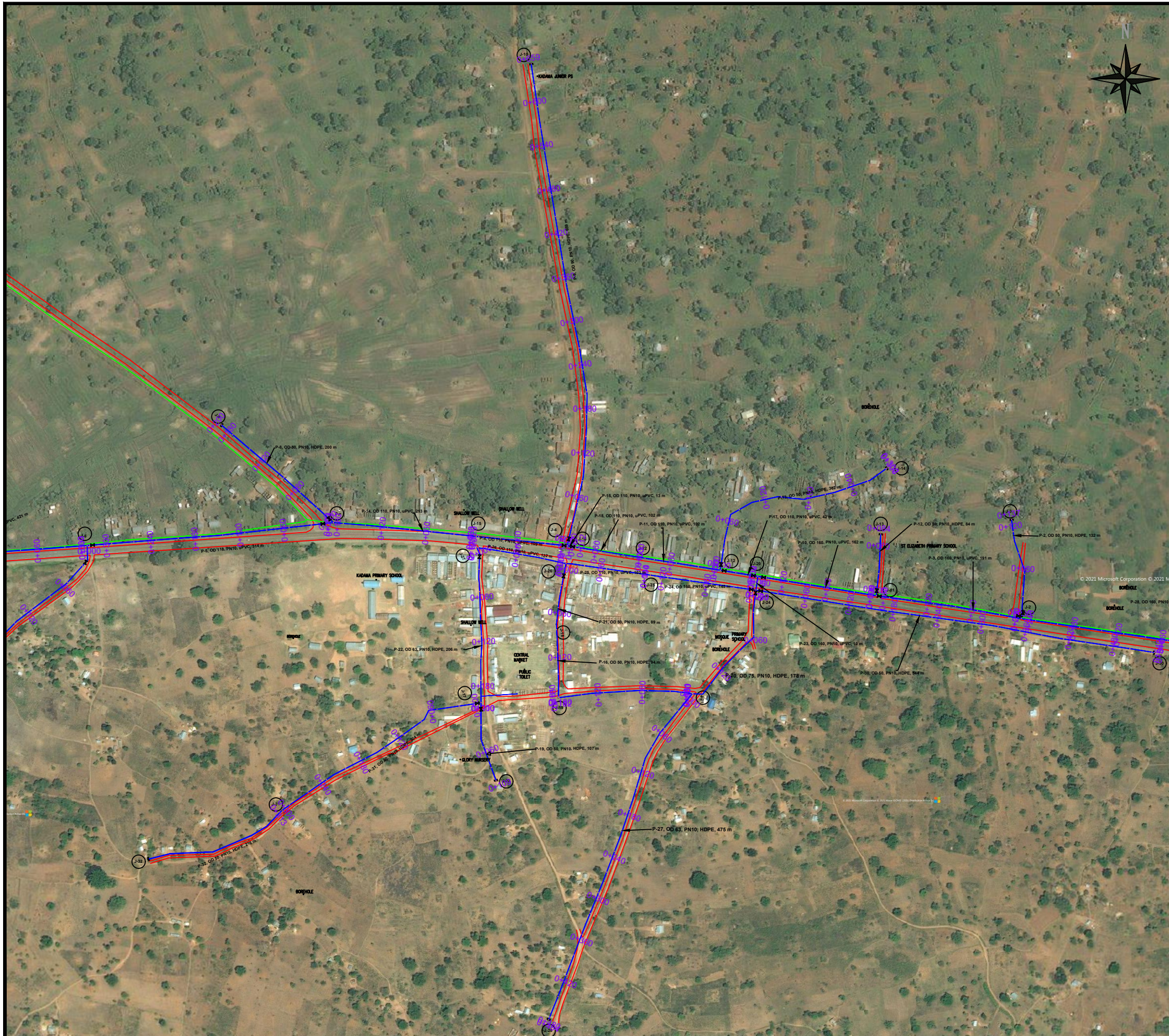
CONSULTANT:



**Drawing Title:**

**KADAMA DISTRIBUTION NETWORK**

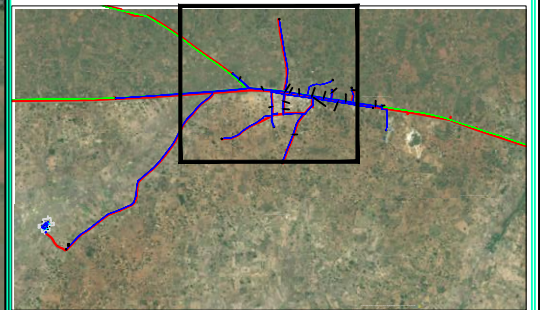
Drawn by : Andrew Turyakira	Approved by:
Checked by: Dr. Ronald Musenze	Dongwoon OH
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/ 8-L-001	
Sheet No.: 1	Format: A3



### LEGEND

LEGEND	
	Existing pipes
	New pipes
	Replacement pipes
	Replacement A.C pipes
	Roads
	Fences
	Pressure Zones
	Rivers
	Sewer Lines
	Houses
	Junctions
	Air Valves
	Wash Outs
	Fire Hydrants
	Disconnections
	Public stand Post
	Land Marks

### KEY MAP



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MINISTRY OF WATER AND ENVIRONMENT

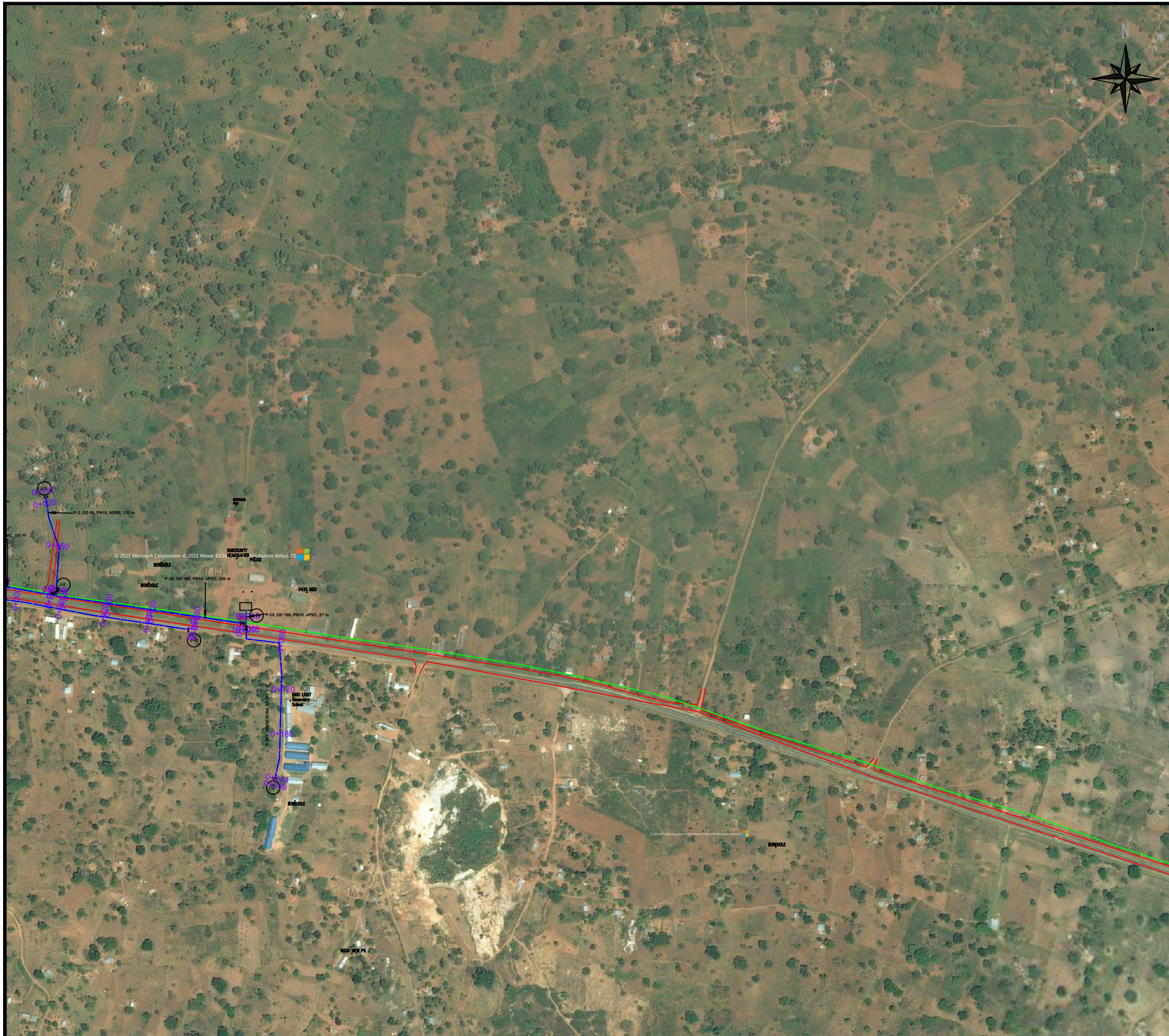
**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND  
SANITATION SYSTEM IN SMALL TOWNS OF  
BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:



**Drawing Title:**  
**KADAMA DISTRIBUTION NETWORK**

Drawn by : Andrew Turyakira	Approved by:
Checked by: Dr. Ronald Musenze	Dongwoon OH
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/ 8-L-001	
Sheet No.: 2	Format: A3




## LEGEND

LEGEND	
	Existing pipes
	New pipes
	Replacement pipes
	Replacement A.C pipes
	Roads
	Fences
	Pressure Zones
	Rivers
	Sewer Lines
	Houses
	Junctions
	Air Valves
	Wash Outs
	Fire Hydrants
	Disconnections
	Public stand Post
	Land Marks

## KEY MAP




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MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

**Drawing Title:**  
**KADAMA DISTRIBUTION NETWORK**

Drawn by : Andrew Turyakira	Approved by:
Checked by: Dr. Ronald Musenze	Dongwoon OH
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/ 8-L-001	
Sheet No.: 3	Format: A3



### LEGEND

LEGEND	
	Existing pipes
	New pipes
	Replacement pipes
	Replacement A.C pipes
	Roads
	Fences
	Pressure Zones
	Rivers
	Sewer Lines
	Houses
	Junctions
	AV-6 Air Valves
	WO-2 Wash Outs
	FH-17 Fire Hydrants
	Dis-15 Disconnections
	PSP Public stand Post
	ROAD Land Marks

### KEY MAP

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MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

**Drawing Title:**  
**KADAMA DISTRIBUTION NETWORK**

Drawn by : Andrew Turyakira	Approved by:
Checked by: Dr. Ronald Musenze	Dongwoon OH
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/ 8-L-001	
Sheet No.: 4	Format: A3







**AMENDMENTS**

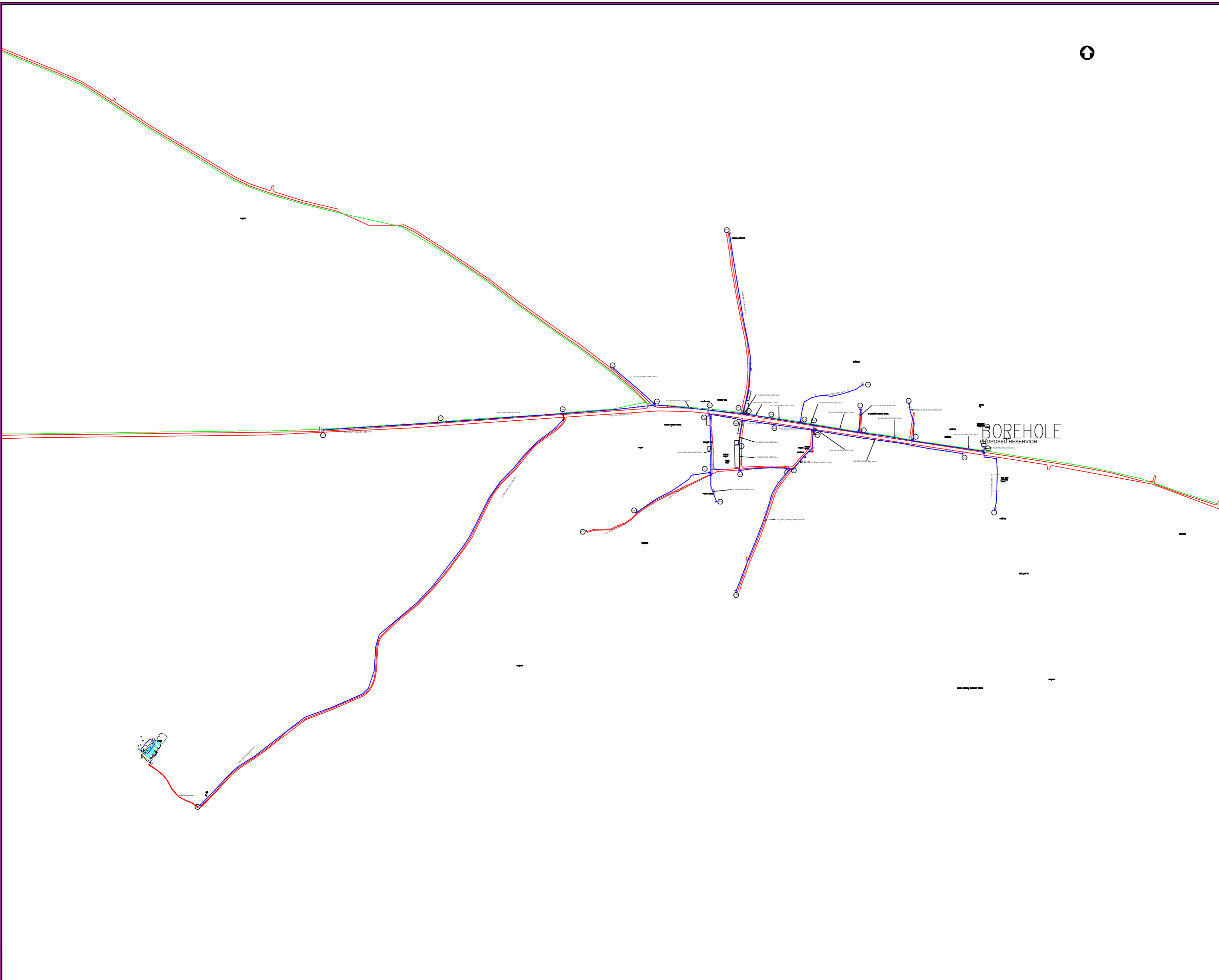
No	Date	Revision

**NOTES**

1. All dimensions are in metres unless stated otherwise.
2. All levels are in metres above sea level.
3. For Site location see Dwg. MB/W/0.0.0
4. For Node details, see Dwg. MB/W/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

-  Transmission Line
-  New Distribution Line
-  Road
-  DAV Double Orifice Air Valve
-  WO\_2 Type 2 Washout
-  Node detail No. 01



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MINISTRY OF WATER AND ENVIRONMENT

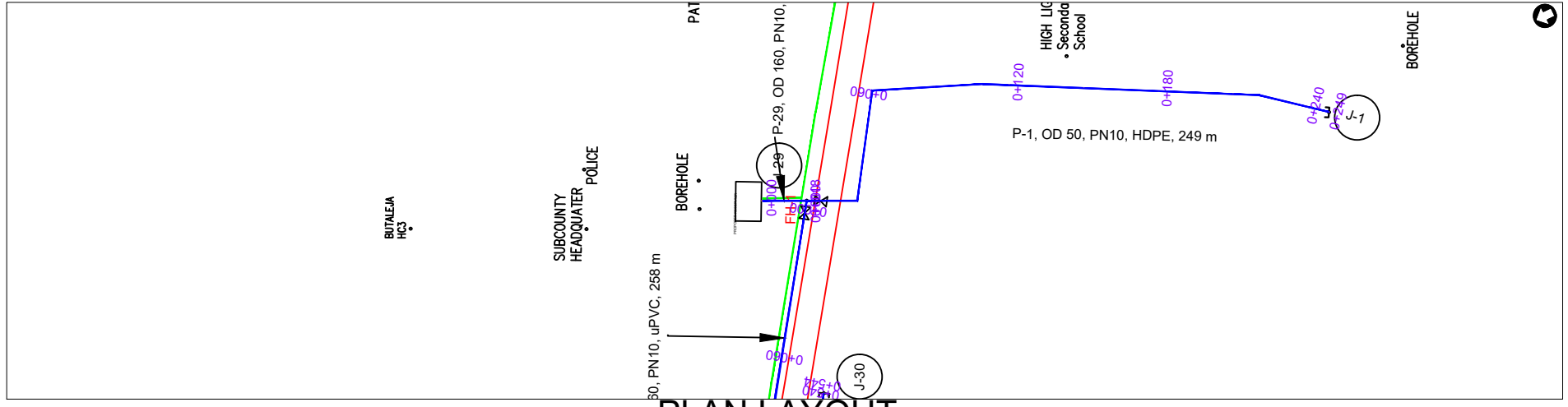
**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

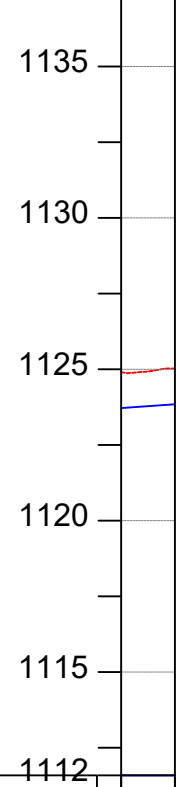


**Drawing Title:**  
  
KADAMA TOWN  
**GENERAL LAYOUT**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/KAD/001
Sheet No.: 1	Format: A2



**PLAN LAYOUT**



CHAINAGE	0+000	0+018
GROUND LEVEL(m)	1124.904	1125.027
PIPE DETAILS	OD 160, PN10, uPVC	
PIPE INVERT(m)	1123.804	1123.927

AMENDMENTS		
No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
  2. All levels are in metres above sea level.
  3. For Site location see Dwg. MB/W/0.0.0
  4. For Node details, see Dwg. MB/W/6.0.0
  5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

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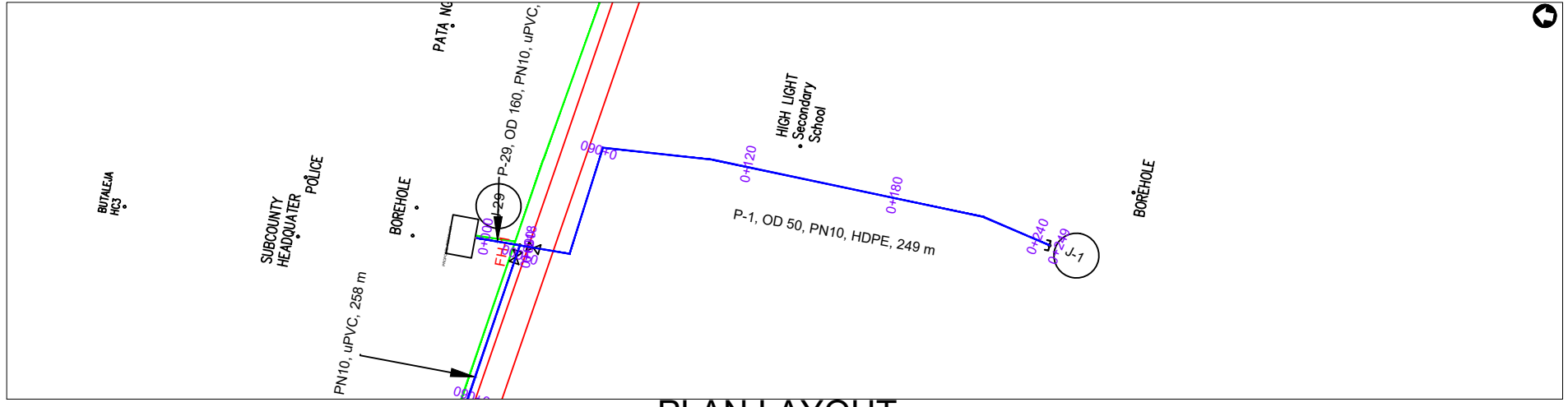
MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

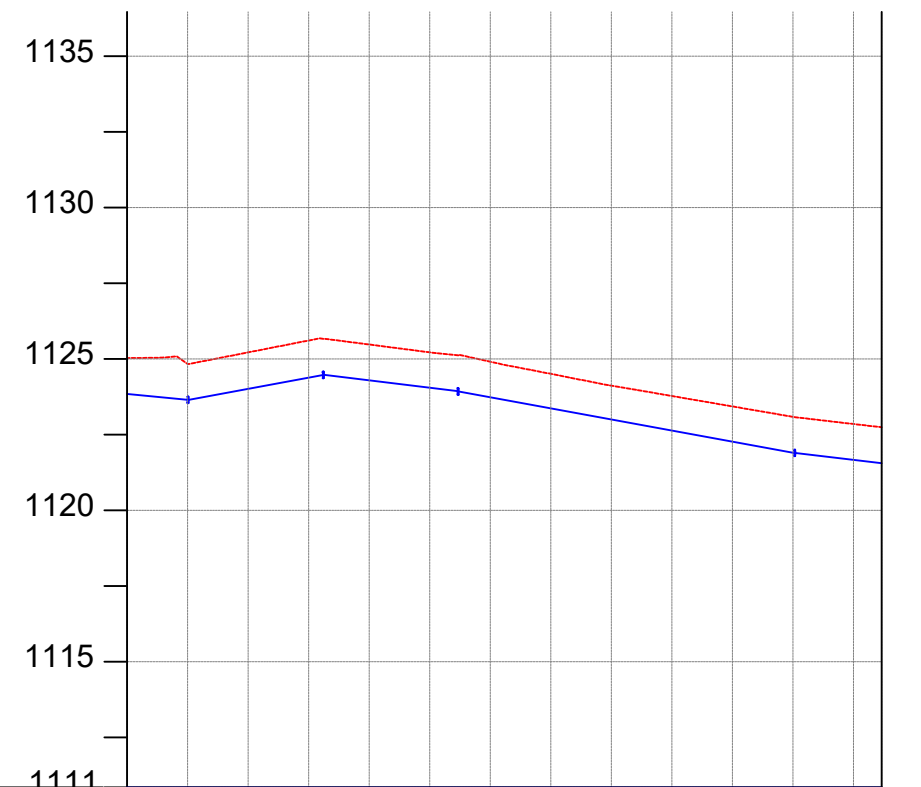
CONSULTANT:

**Drawing Title:**  
KADAMA TOWN  
**DL-01 (CH 0+000.00 - 0+017.70)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL-01 (CH 0+000.00 - 0+017.70)
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+200		0+240	0+249
GROUND LEVEL(m)	1125.027	1124.837	1125.216	1125.609	1125.476	1125.218	1124.908	1124.508	1124.116	1123.776	1123.432	1123.087	1122.851	1122.742
PIPE DETAILS	OD50, PN10, HDPE													
PIPE INVERT(m)	1123.927	1123.737	1124.116	1124.509	1124.376	1124.118	1123.808	1123.408	1123.016	1122.676	1122.332	1121.987	1121.751	1121.642

AMENDMENTS		
No	Date	Revision

- NOTES**
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  4. For Node details, see Dwg. MB/W/6.0.0
  5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- // Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

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MINISTRY OF WATER AND ENVIRONMENT

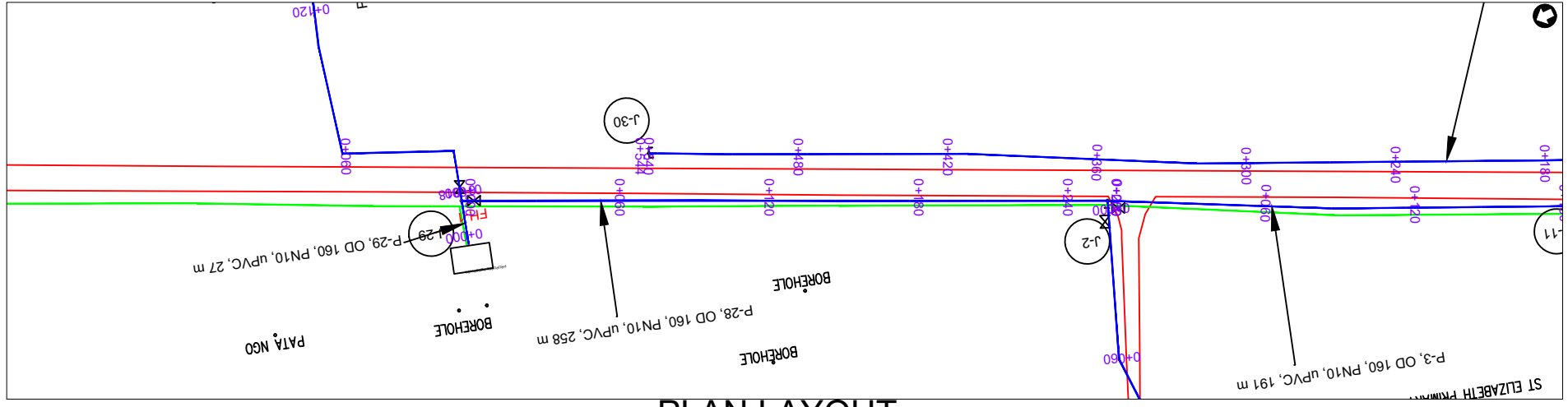
**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

**CONSULTANT:**

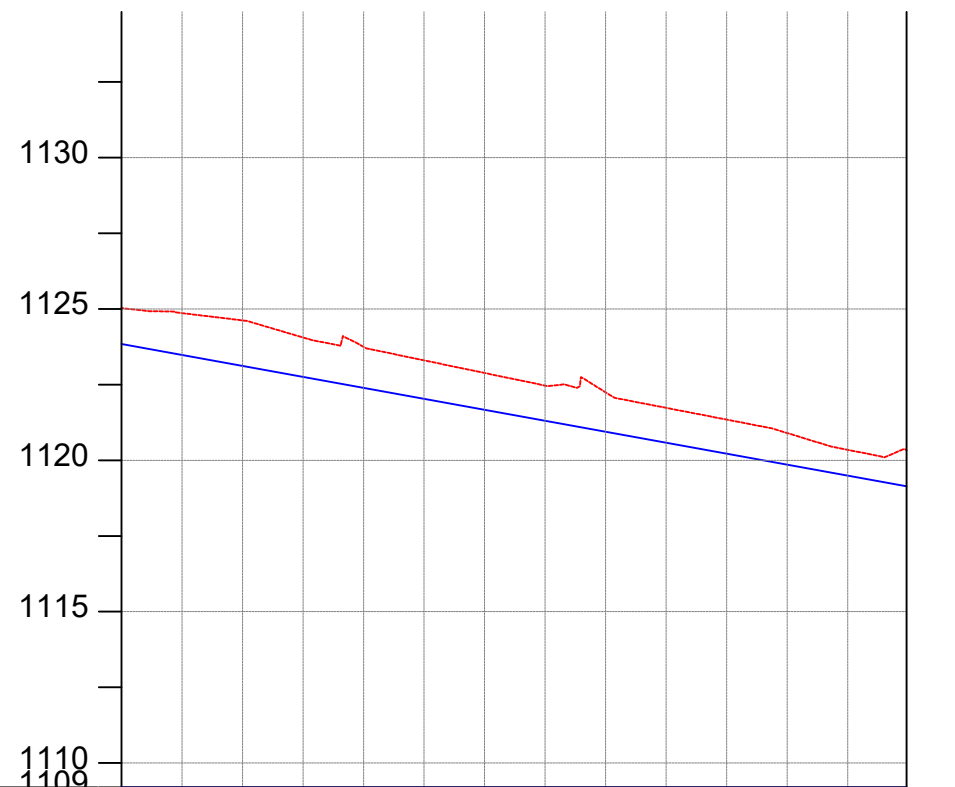
**Drawing Title:**  
KADAMA TOWN  
**DL-02 (CH 0+000.00 - 0+249.36)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-02 (CH 0+000.00 - 0+249.36)	
Sheet No.: 1	Format: A3





**PLAN LAYOUT**



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+200		0+240	0+259
GROUND LEVEL(m)	1125.027	1124.861	1124.622	1124.058	1123.748	1123.301	1122.884	1122.468	1122.244	1121.732	1121.344	1120.900	1120.345	1120.327
PIPE DETAILS	OD160, PN10,uPVC													
PIPE INVERT(m)	1123.927	1123.761	1123.522	1122.958	1122.648	1122.201	1121.784	1121.368	1121.144	1120.632	1120.244	1119.800	1119.245	1119.227

AMENDMENTS		
No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
  2. All levels are in metres above sea level.
  3. For Site location see Dwg. MBW/0.0.0
  4. For Node details, see Dwg. MBW/6.0.0
  5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

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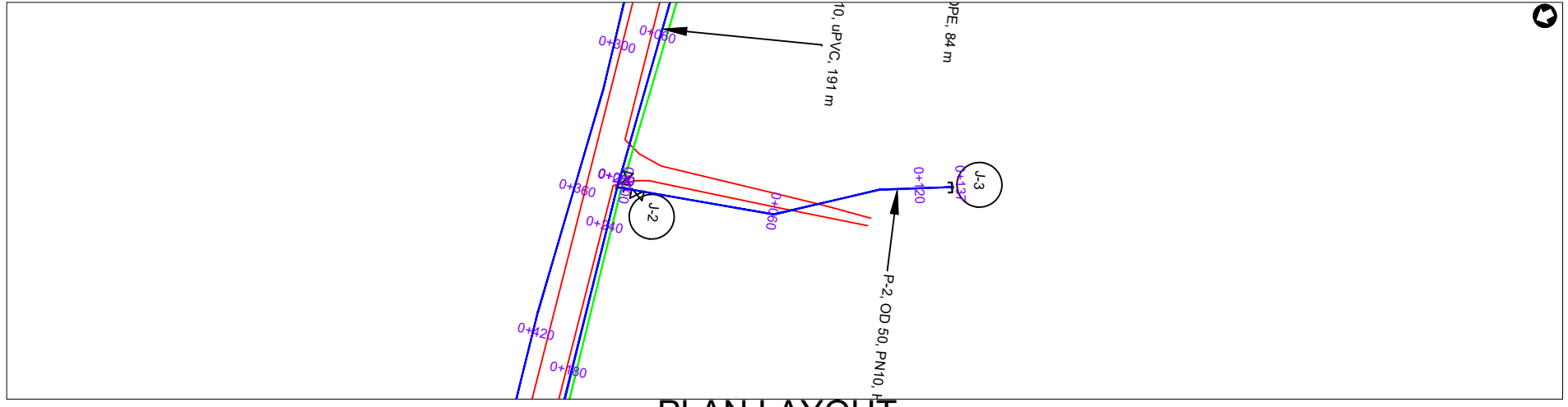
MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

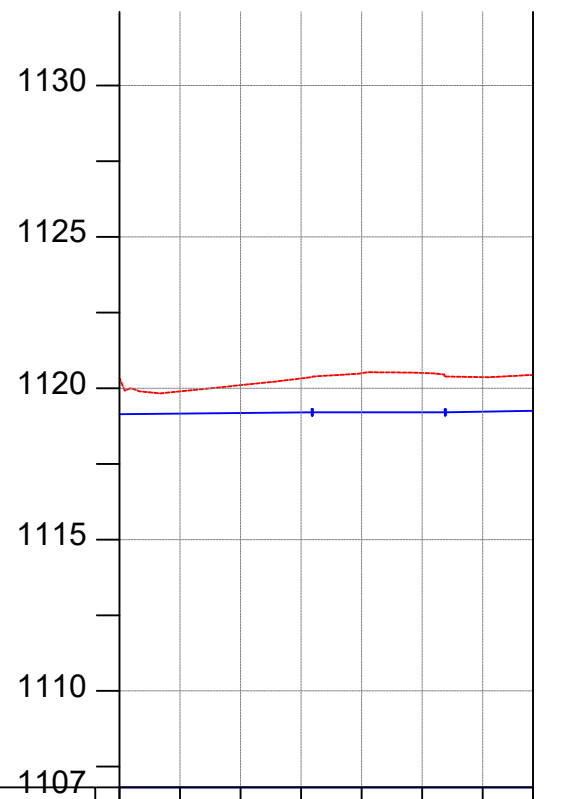
**CONSULTANT:**

**Drawing Title:**  
KADAMA TOWN  
**DL-03 (CH 0+000.00 - 0+259.45)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-03 (CH 0+000.00 - 0+259.45)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000		0+040		0+080		0+120	0+137
GROUND LEVEL(m)	1120.327	1119.894	1120.101	1120.323	1120.495	1120.503	1120.366	1120.442
PIPE DETAILS	— OD50, PN10, HDPE —							
PIPE INVERT(m)	1119.227	1118.794	1119.001	1119.223	1119.395	1119.403	1119.266	1119.342

**AMENDMENTS**

No	Date	Revision

**NOTES**

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4. For Node details, see Dwg. MB/W/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

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MINISTRY OF WATER AND ENVIRONMENT

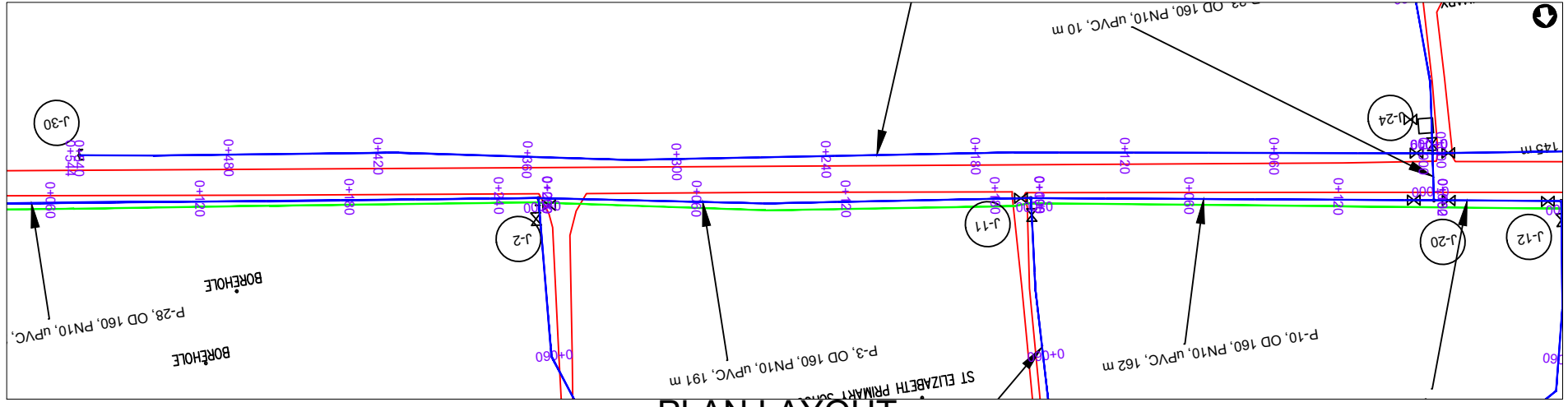
**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

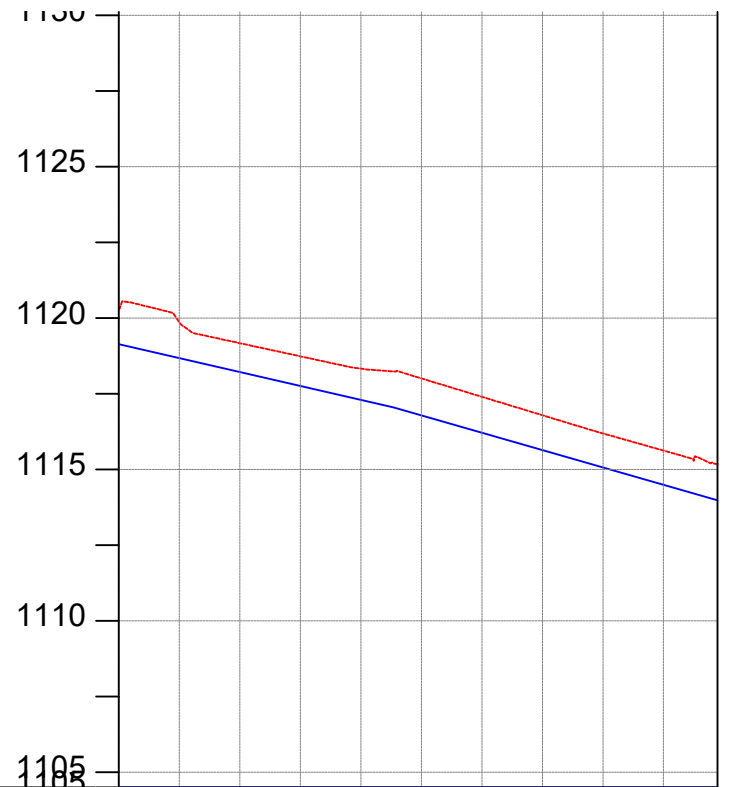


**Drawing Title:**  
KADAMA TOWN  
**DL-04 (CH 0+000.00 - 0+136.60)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-04 (CH 0+000.00 - 0+136.60)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+198
GROUND LEVEL(m)	1120.327	1119.865	1119.172	1118.739	1118.331	1118.009	1117.400	1116.792	1116.191	1115.625	1115.167
PIPE DETAILS	OD160, PN10,uPVC										
PIPE INVERT(m)	1119.227	1118.765	1118.072	1117.639	1117.231	1116.909	1116.300	1115.692	1115.091	1114.525	1114.067

AMENDMENTS		
No	Date	Revision

- NOTES**
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  4. For Node details, see Dwg. MBW/6.0.0
  5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- - - Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

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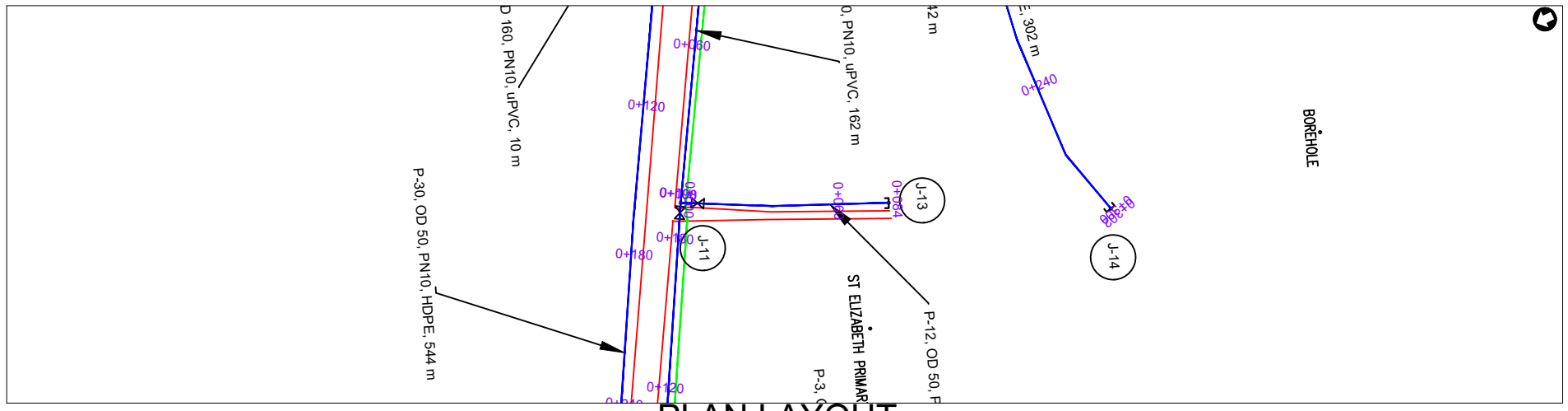
MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

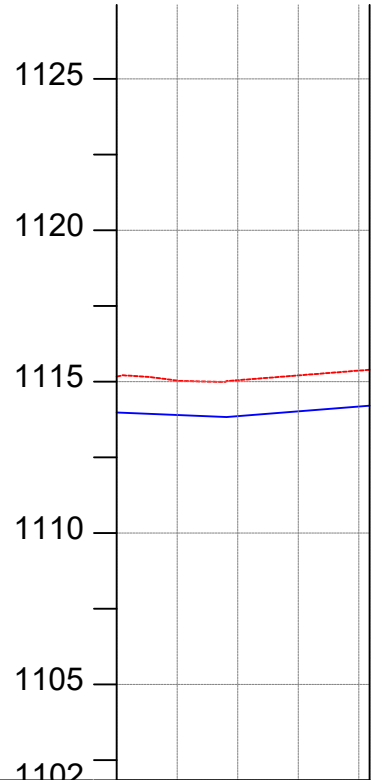
CONSULTANT:

**Drawing Title:**  
KADAMA TOWN  
**DL-05 (CH 0+000.00 - 0+197.84)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL-05 (CH 0+000.00 - 0+197.84)
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000		0+040		0+084
GROUND LEVEL(m)	1115.167	1115.037	1115.049	1115.208	1115.399
PIPE DETAILS	OD50, PN10, HDPE				
PIPE INVERT(m)	1114.067	1113.937	1113.949	1114.108	1114.299

**AMENDMENTS**

No	Date	Revision

**NOTES**

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4. For Node details, see Dwg. MB/W/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- Node detail No. 01

REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

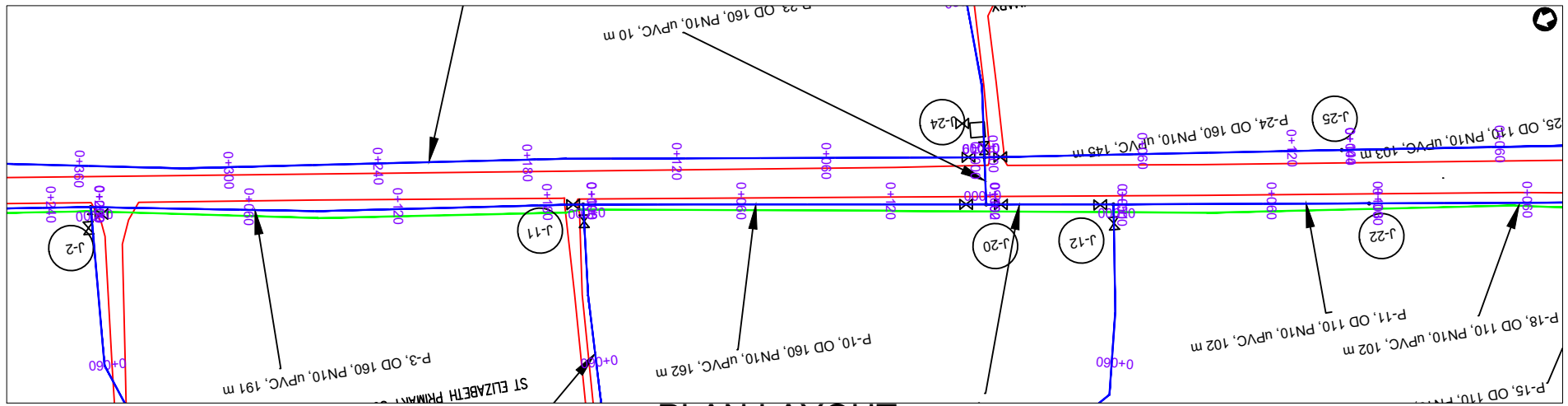
**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:



**Drawing Title:**  
KADAMA TOWN  
**DL-06 (CH 0+000.00 - 0+083.59)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-06 (CH 0+000.00 - 0+083.59)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**

**AMENDMENTS**

No	Date	Revision

**NOTES**

1. All dimensions are in metres unless stated otherwise.
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3. For Site location see Dwg. MBW/0.0.0
4. For Node details, see Dwg. MBW/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- Node detail No. 01

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MINISTRY OF WATER AND ENVIRONMENT

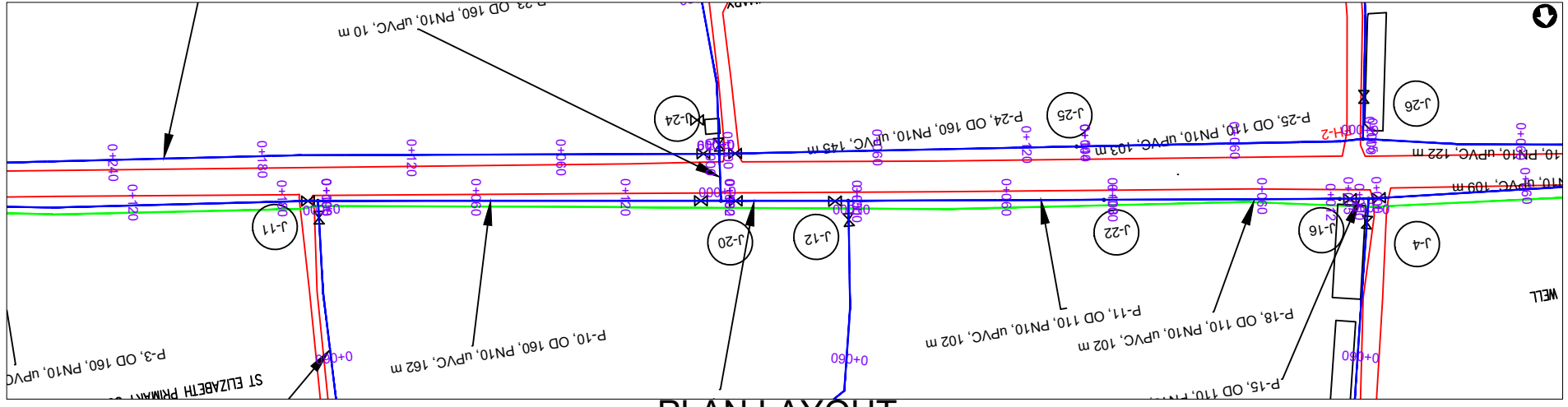
**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

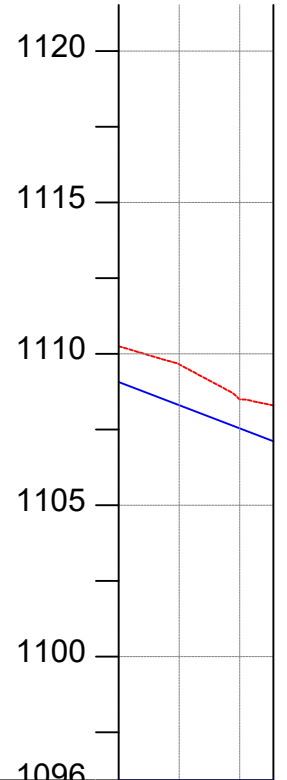


**Drawing Title:**  
**KADAMA TOWN**  
**DL-07 (CH 0+000.00 - 0+161.85)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL-07 (CH 0+000.00 - 0+161.85)
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000	0+040	0+051
GROUND LEVEL(m)	1110.251	1109.650	1108.495
PIPE DETAILS	OD50, PN10, HDPE		
PIPE INVERT(m)	1109.151	1108.550	1107.395
			1107.193

AMENDMENTS		
No	Date	Revision

- NOTES**
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  - For Node details, see Dwg. MBW/6.0.0
  - All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- Node detail No. 01

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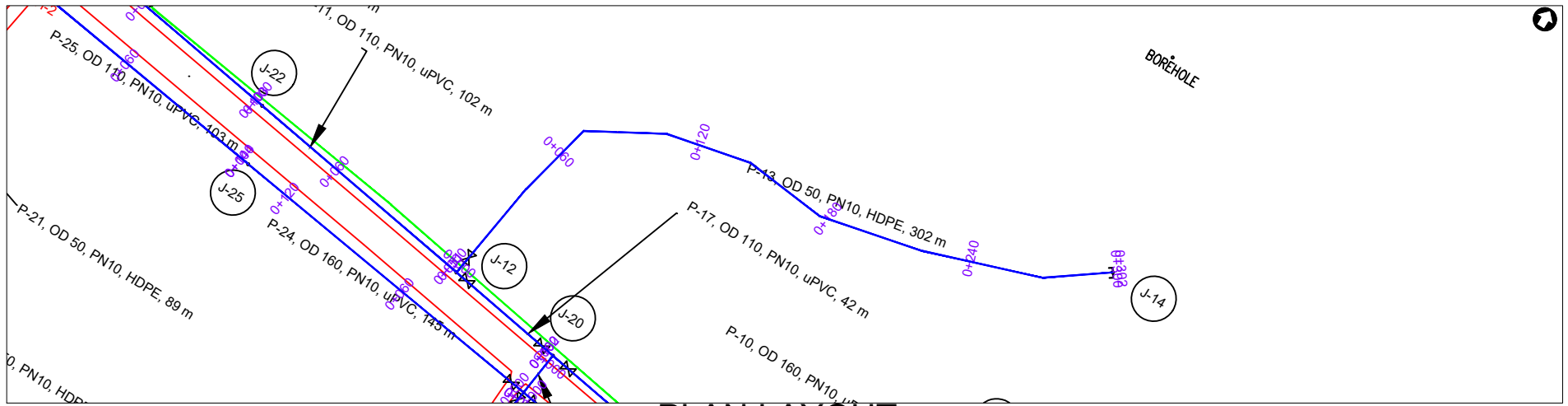
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

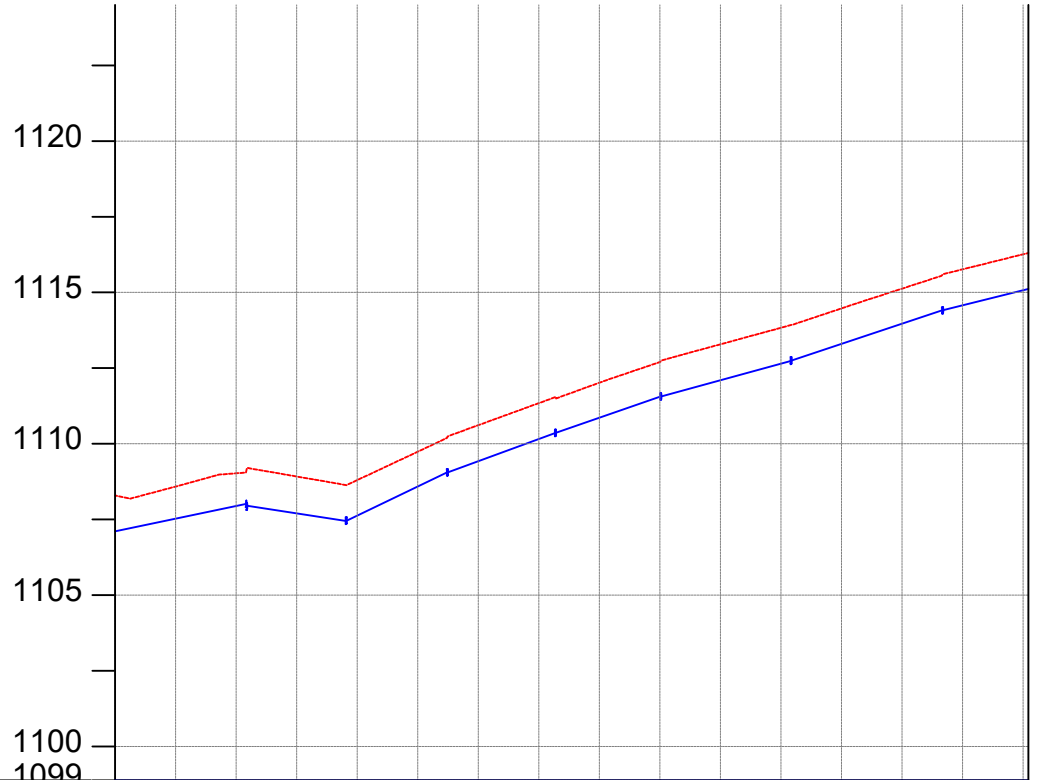
CONSULTANT:

Drawing Title:  
**KADAMA TOWN**  
**DL-08 (CH 0+000.00 - 0+051.16)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-08 (CH 0+000.00 - 0+051.16)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+302							
GROUND LEVEL(m)	1108.293	1108.588	1109.026	1108.920	1108.800	1109.739	1110.615	1111.343	1112.018	1112.701	1113.286	1113.832	1114.472	1115.125	1115.762	1116.269
PIPE DETAILS	— OD50, PN10, HDPE —															
PIPE INVERT(m)	1107.193	1107.488	1107.926	1107.820	1107.700	1108.639	1109.515	1110.243	1110.918	1111.601	1112.186	1112.732	1113.372	1114.025	1114.662	1115.269

AMENDMENTS		
No	Date	Revision

- NOTES**
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  3. For Site location see Dwg. MB/W/0.0.0
  4. For Node details, see Dwg. MB/W/6.0.0
  5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

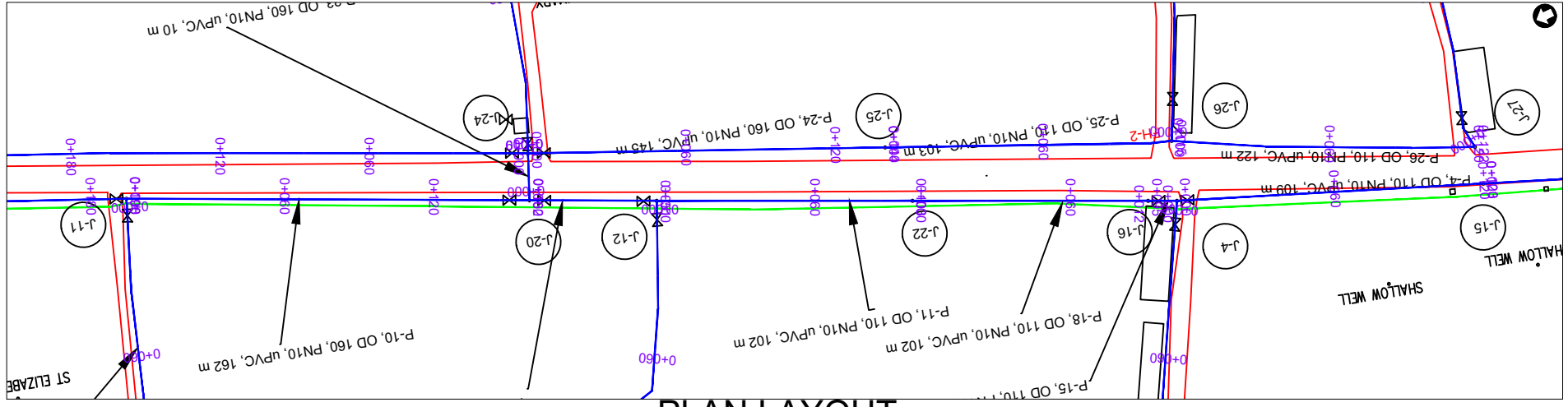
MINISTRY OF WATER AND ENVIRONMENT  
NATIONAL WATER AND SEWERAGE CORPORATION

**PROJECT:**  
CONSULTANCY SERVICES FOR DESIGN  
REVIEW OF MBALE WATER  
AND SANITATION PROJECT

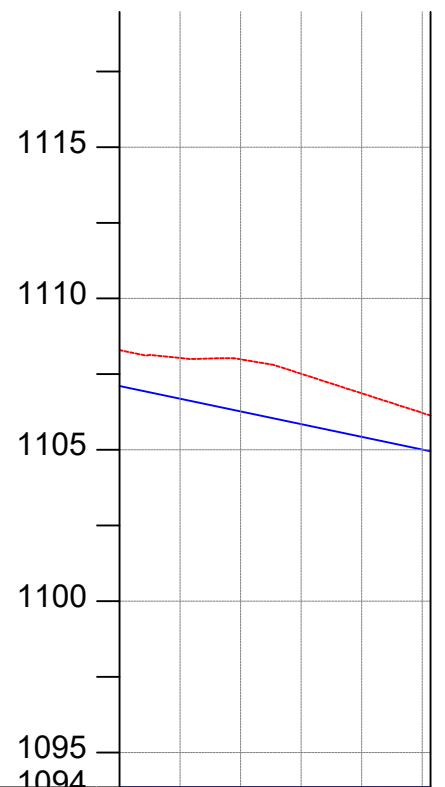
CONSULTANT:

**Drawing Title:**  
KADAMA TOWN  
**DL-09 (CH 0+000.00 - 0+301.75)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWM/MP/MBA/DL-09 (CH 0+000.00 - 0+301.75)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000					0+040	0+080	0+103
GROUND LEVEL(m)	1108.293	1108.034	1107.990	1107.512	1106.867	1106.428	1106.128	
PIPE DETAILS	OD110, PN10, uPVC							
PIPE INVERT(m)	1107.193	1106.934	1106.890	1106.412	1105.767	1105.128	1105.028	

**AMENDMENTS**

No	Date	Revision

**NOTES**

1. All dimensions are in metres unless stated otherwise.
2. All levels are in metres above sea level.
3. For Site location see Dwg. MBW/0.0.0
4. For Node details, see Dwg. MBW/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

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MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

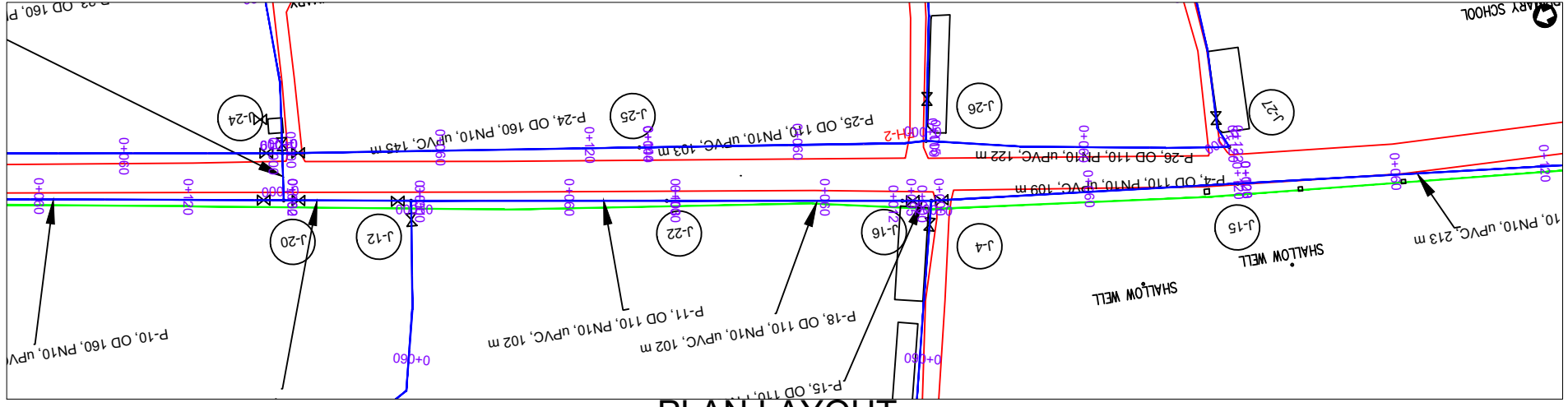
CONSULTANT:



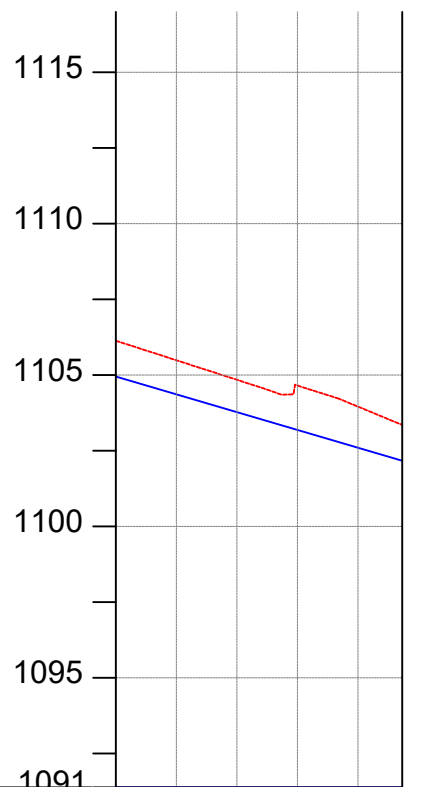
**Drawing Title:**  
KADAMA TOWN  
**DL-10 (CH 0+000.00 - 0+102.70)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-10 (CH 0+000.00 - 0+102.70)	Sheet No.: 1
Format: A3	





**PLAN LAYOUT**



CHAINAGE	0+000		0+040		0+080	0+095
GROUND LEVEL(m)	1106.135	1105.489	1104.844	1104.656	1103.958	1103.352
PIPE DETAILS	— OD110, PN10,uPVC —					
PIPE INVERT(m)	1105.035	1104.389	1103.744	1103.556	1102.858	1102.252

**AMENDMENTS**

No	Date	Revision

**NOTES**

1. All dimensions are in metres unless stated otherwise.
2. All levels are in metres above sea level.
3. For Site location see Dwg. MBW/0.0.0
4. For Node details, see Dwg. MBW/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- Node detail No. 01

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MINISTRY OF WATER AND ENVIRONMENT

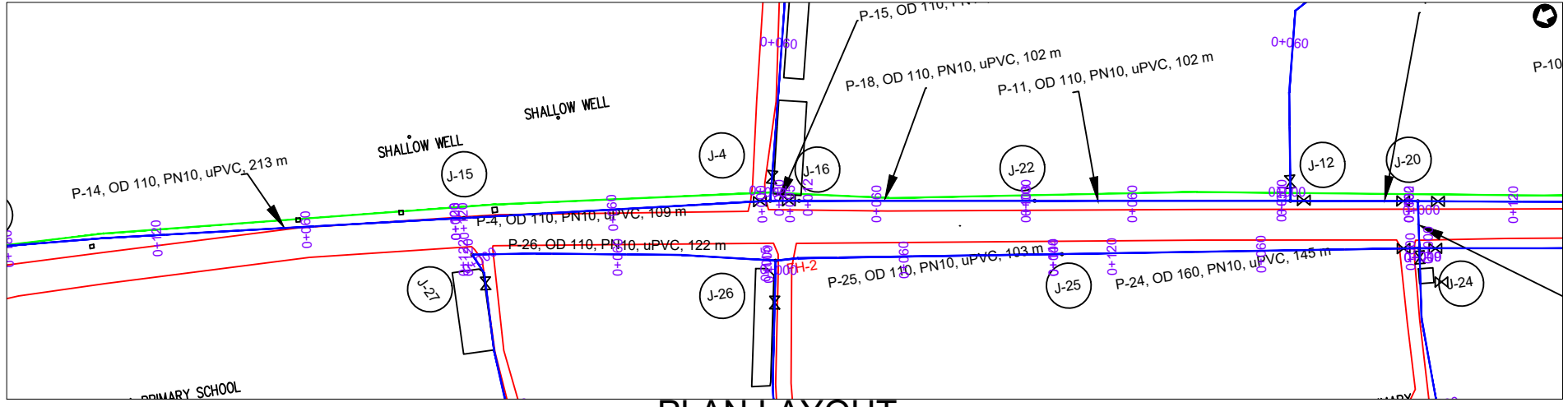
**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:



**Drawing Title:**  
KADAMA TOWN  
**DL-11 (CH 0+000.00 - 0+094.67)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-11 (CH 0+000.00 - 0+094.67)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**

CHAINAGE	1102.231	1103.331	0+000	0+012
GROUND LEVEL(m)	1102.231	1103.331	1103.352	1103.352
PIPE DETAILS	OD110, PN10, uPVC			
PIPE INVERT(m)	1102.231	1102.252		

AMENDMENTS		
No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
  2. All levels are in metres above sea level.
  3. For Site location see Dwg. MBW/0.0.0
  4. For Node details, see Dwg. MBW/6.0.0
  5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

	Transmission Line
	New Distribution Line
	Road
	Double Orifice Air Valve
	Type 2 Washout
	Node detail No. 01

REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

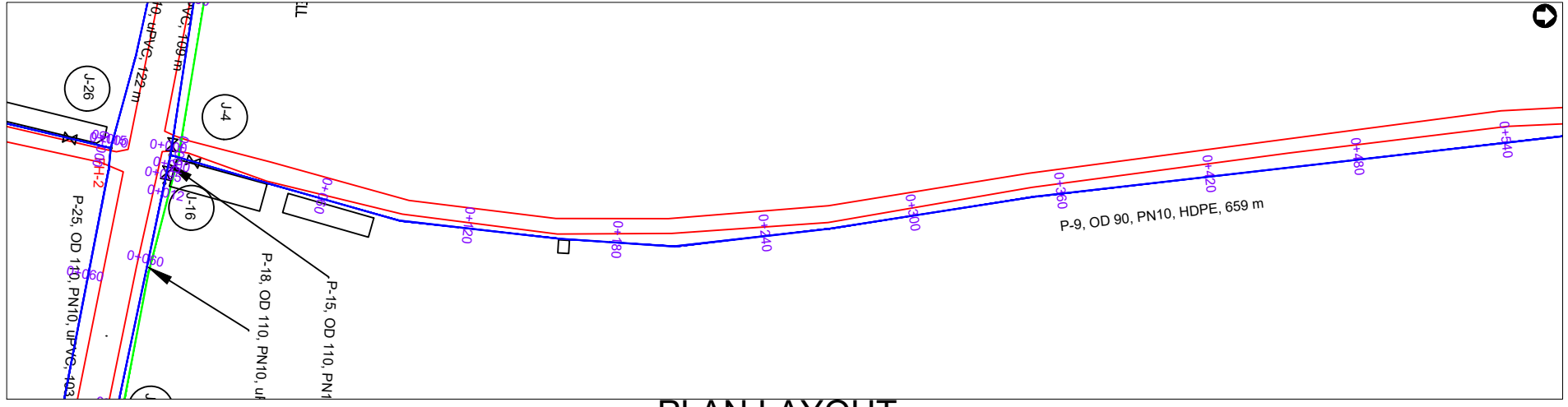
CONSULTANT:



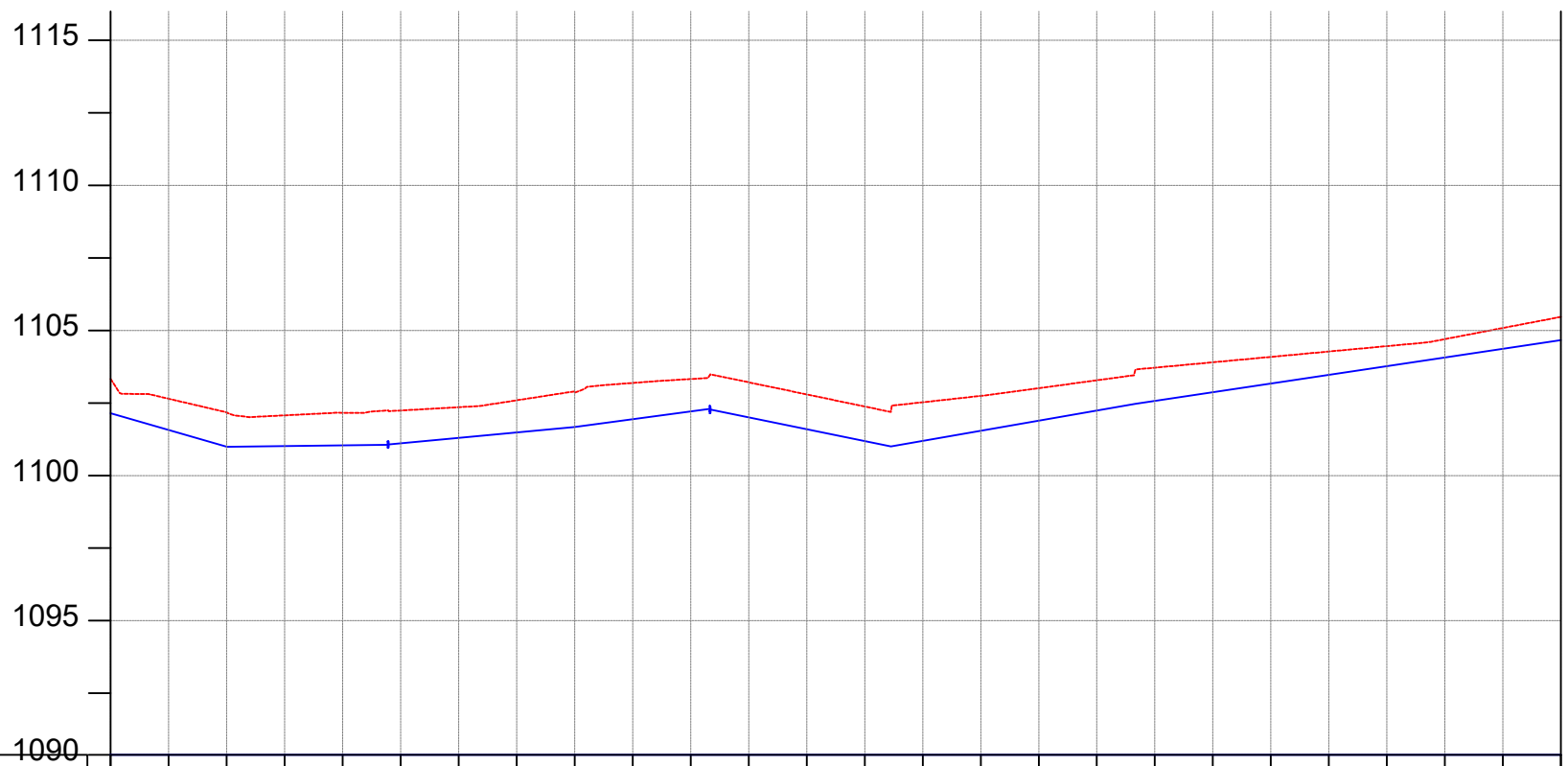


**Drawing Title:**  
KADAMA TOWN  
**DL-12 (CH 0+000.00 - 0+011.58)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-12 (CH 0+000.00 - 0+011.58)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+200		0+240		0+280		0+320		0+360		0+400		0+440		0+480	0+500		
GROUND LEVEL(m)	1103.331	1102.647	1102.179	1102.074	1102.162	1102.242	1102.354	1102.593	1102.855	1103.191	1103.326	1103.213	1102.796	1102.379	1102.526	1102.745	1103.011	1103.283	1103.717	1103.903	1104.088	1104.274	1104.460	1104.701	1105.085	1105.468		
PIPE DETAILS	OD90, PN10, HDPE																											
PIPE INVERT(m)	1102.231	1101.547	1101.079	1100.974	1101.062	1101.142	1101.254	1101.493	1101.755	1102.091	1102.226	1102.113	1101.696	1101.279	1101.426	1101.645	1101.911	1102.183	1102.617	1102.803	1102.988	1103.174	1103.360	1103.601	1103.985	1104.368		

AMENDMENTS		
No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
  2. All levels are in metres above sea level.
  3. For Site location see Dwg. MB/W/0.0.0
  4. For Node details, see Dwg. MB/W/6.0.0
  5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

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MINISTRY OF WATER AND ENVIRONMENT

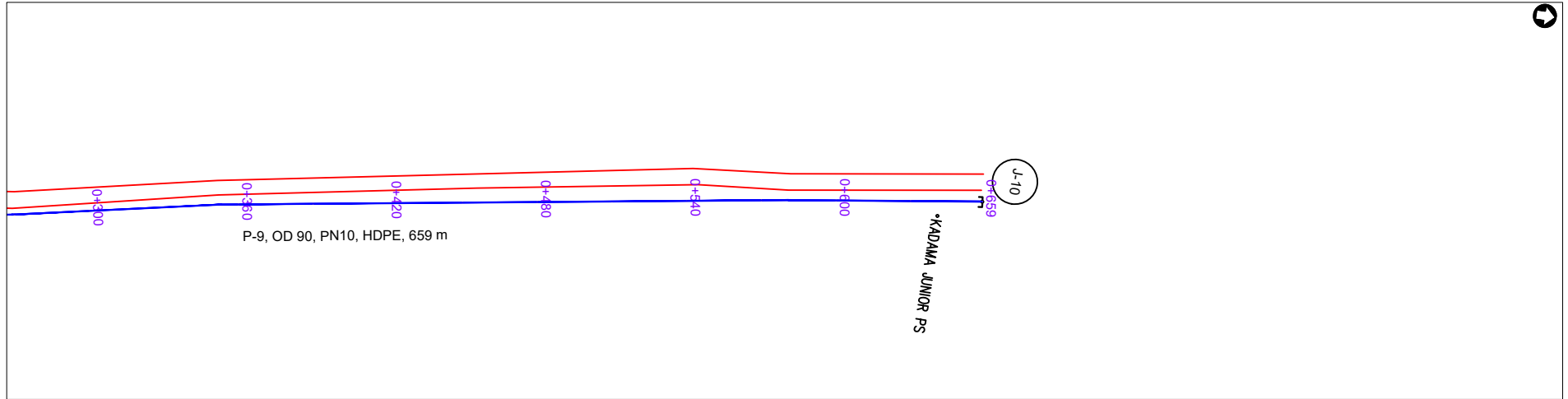
**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

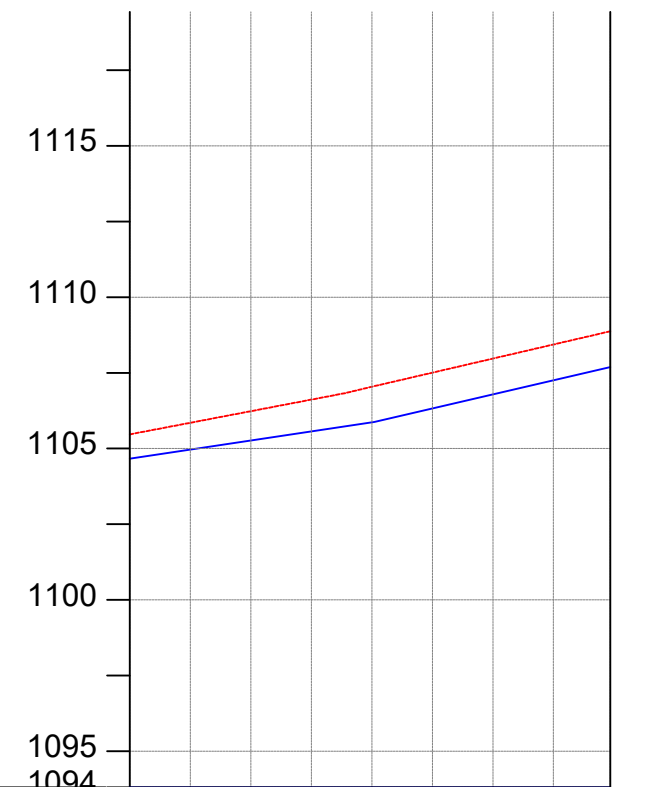
**Drawing Title:**

**KADAMA TOWN**  
**DL-13 (CH 0+000.00 - 0+500.00)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-13 (CH 0+000.00 - 0+500.00)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+500	0+520		0+560		0+600		0+640	0+659
GROUND LEVEL(m)	1105.468	1105.850	1106.233	1106.616	1107.041	1107.506	1107.972	1108.437	1108.874
PIPE DETAILS	— OD90, PN10, HDPE —								
PIPE INVERT(m)	1104.368	1104.750	1105.133	1105.516	1105.941	1106.406	1106.872	1107.337	1107.774

**AMENDMENTS**

No	Date	Revision

**NOTES**

1. All dimensions are in metres unless stated otherwise.
2. All levels are in metres above sea level.
3. For Site location see Dwg. MBW/0.0.0
4. For Node details, see Dwg. MBW/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- Node detail No. 01

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MINISTRY OF WATER AND ENVIRONMENT

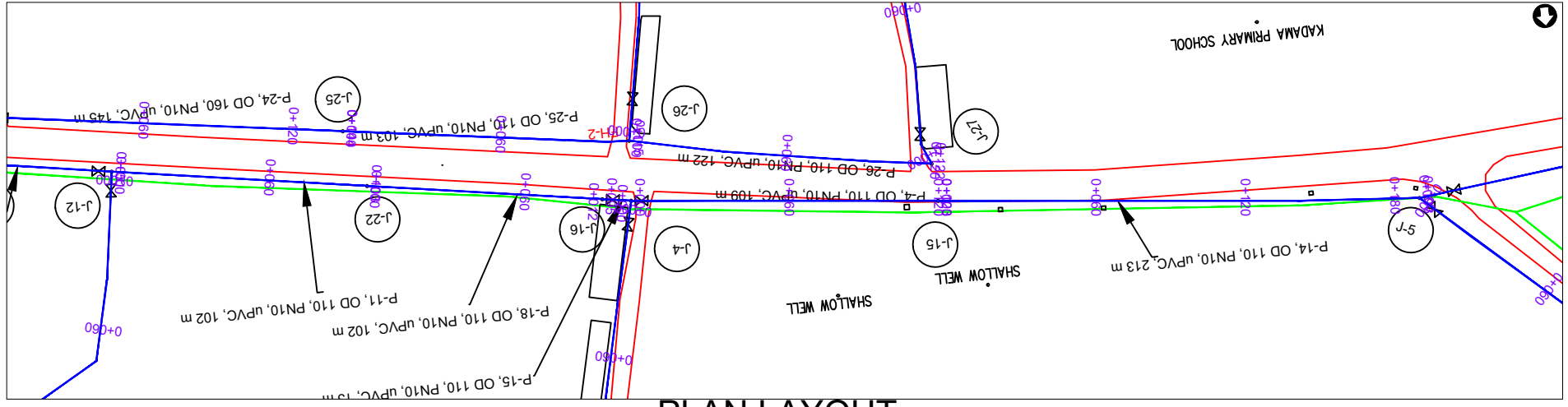
**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

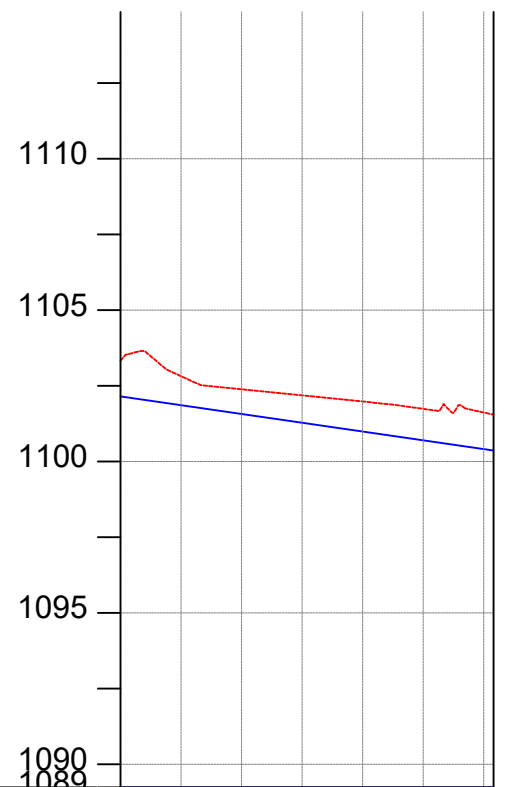


**Drawing Title:**  
KADAMA TOWN  
**DL-13 (CH 0+500.00 - 0+658.80)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-13 (CH 0+500.00 - 0+658.80)	
Sheet No.: 2	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000		0+040		0+080		0+128
GROUND LEVEL(m)	1103.331	1102.816	1102.385	1102.182	1101.979	1101.738	1101.546
PIPE DETAILS	OD110, PN10, uPVC						
PIPE INVERT(m)	1102.231	1101.716	1101.285	1101.082	1100.879	1100.638	1100.446

**AMENDMENTS**

No	Date	Revision

**NOTES**

1. All dimensions are in metres unless stated otherwise.
2. All levels are in metres above sea level.
3. For Site location see Dwg. MBW/0.0.0
4. For Node details, see Dwg. MBW/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

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MINISTRY OF WATER AND ENVIRONMENT

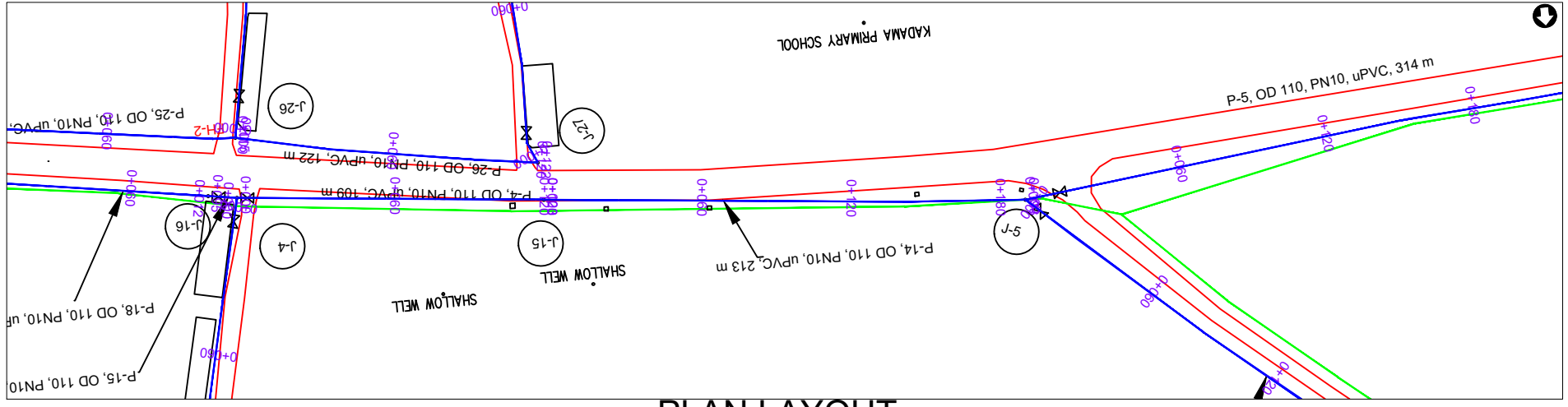
**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

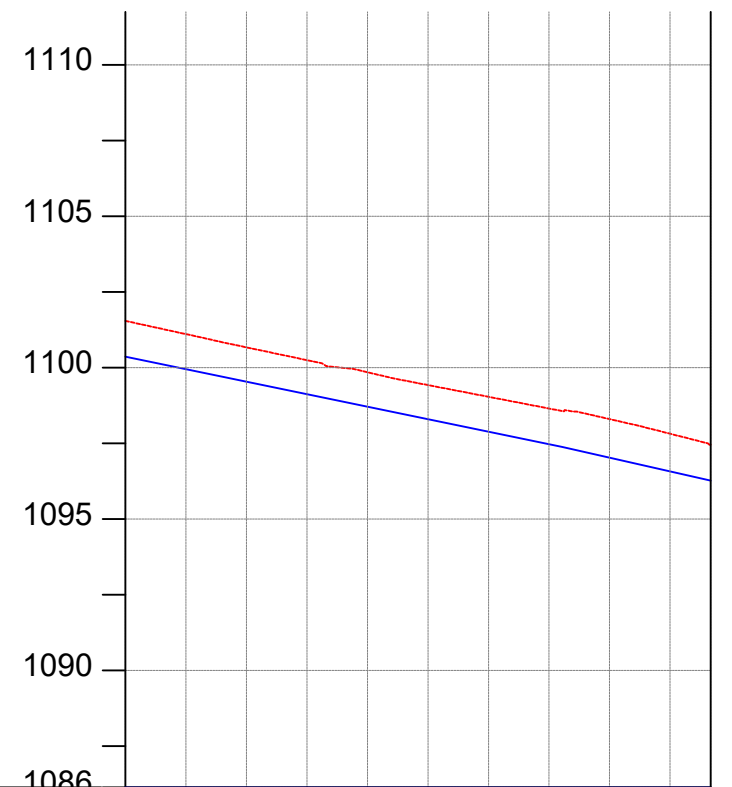


**Drawing Title:**  
KADAMA TOWN  
**DL-14 (CH 0+000.00 - 0+123.25)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-14 (CH 0+000.00 - 0+123.25)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+193
GROUND LEVEL(m)	1101.546	1101.109	1100.671	1100.248	1099.850	1099.425	1099.038	1098.650	1098.301	1097.818	1097.455
PIPE DETAILS	— OD110, PN10,uPVC —										
PIPE INVERT(m)	1100.446	1100.009	1099.571	1099.148	1098.750	1098.325	1097.938	1097.550	1097.201	1096.718	1096.355

AMENDMENTS		
No	Date	Revision

- NOTES**
- All dimensions are in metres unless stated otherwise.
  - All levels are in metres above sea level.
  - For Site location see Dwg. MB/W/0.0.0
  - For Node details, see Dwg. MB/W/6.0.0
  - All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- - - Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

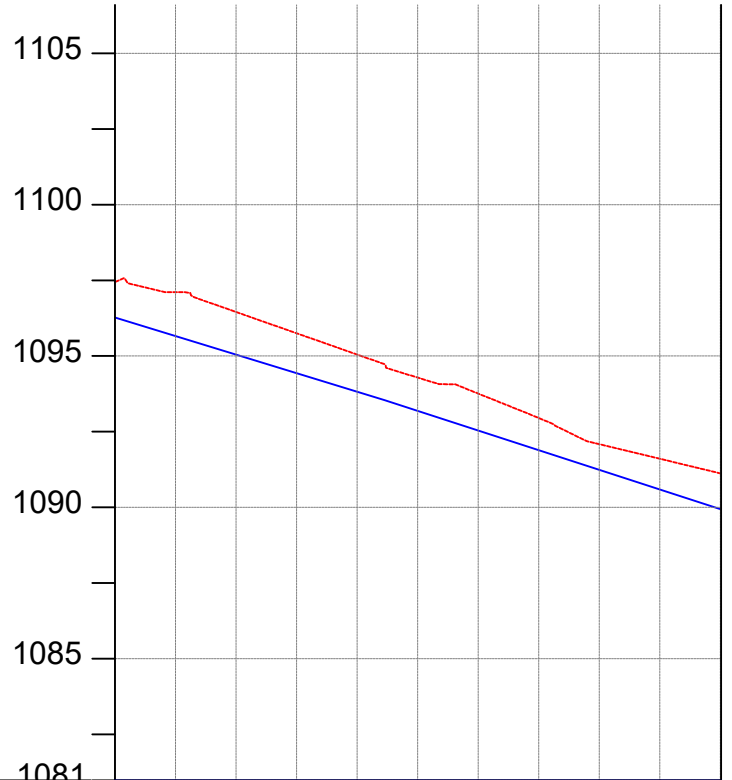
CONSULTANT:

**Drawing Title:**  
KADAMA TOWN  
**DL-15 (CH 0+000.00 - 0+193.44)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-15 (CH 0+000.00 - 0+193.44)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000	0+040	0+080	0+120	0+160	0+200
GROUND LEVEL(m)	1097.455	1097.110	1096.454	1095.752	1095.049	1094.287
PIPE DETAILS	— OD50, PN10, HDPE —					
PIPE INVERT(m)	1096.355	1096.010	1095.354	1094.652	1093.949	1093.187
	1092.659	1091.852	1090.988	1090.506		
	1091.124					1090.024

**AMENDMENTS**

No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
  2. All levels are in metres above sea level.
  3. For Site location see Dwg. MB/W/0.0.0
  4. For Node details, see Dwg. MB/W/6.0.0
  5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

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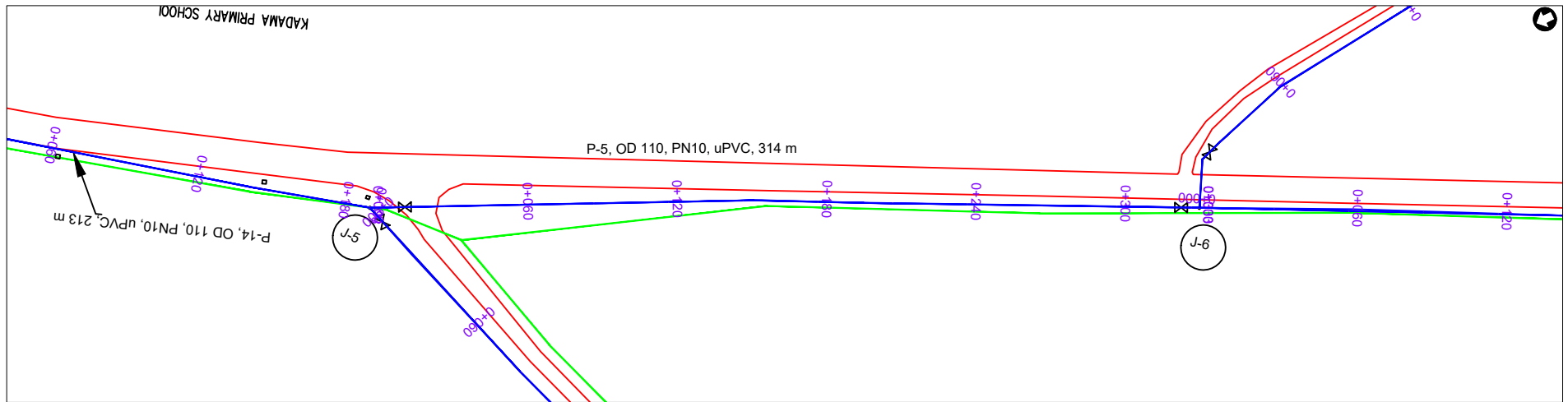
MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

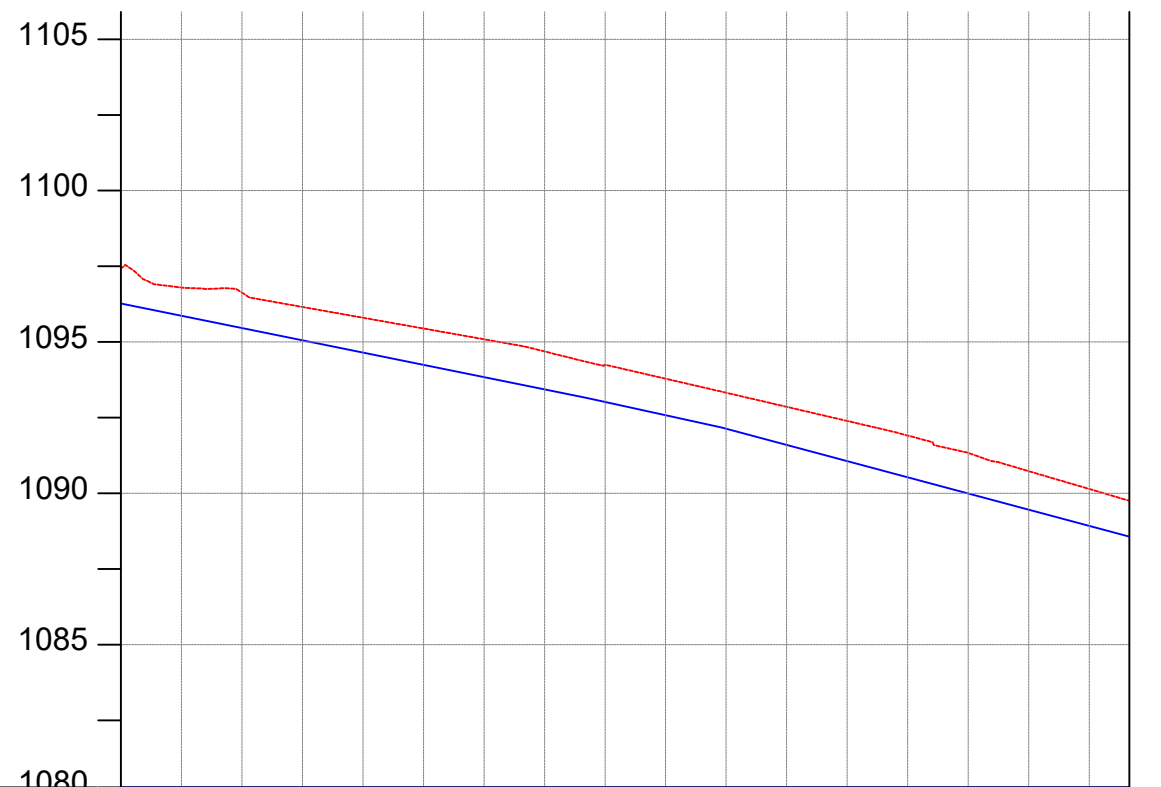
CONSULTANT:

**Drawing Title:**  
KADAMA TOWN  
**DL-16 (CH 0+000.00 - 0+200.29)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-16 (CH 0+000.00 - 0+200.29)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+320	0+333									
GROUND LEVEL(m)	1097.455	1096.798	1096.630	1096.157	1095.801	1095.445	1095.089	1094.688	1094.246	1093.787	1093.324	1092.858	1092.392	1091.909	1091.336	1090.733	1090.144	1089.754	
PIPE DETAILS	OD110, PN10, uPVC																		
PIPE INVERT(m)	1096.355	1095.698	1095.530	1095.057	1094.701	1094.345	1093.989	1093.588	1093.146	1092.687	1092.224	1091.758	1091.292	1090.809	1090.236	1089.633	1089.044	1088.654	

AMENDMENTS		
No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
  2. All levels are in metres above sea level.
  3. For Site location see Dwg. MBW/0.0.0
  4. For Node details, see Dwg. MBW/6.0.0
  5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

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MINISTRY OF WATER AND ENVIRONMENT  
NATIONAL WATER AND SEWERAGE CORPORATION

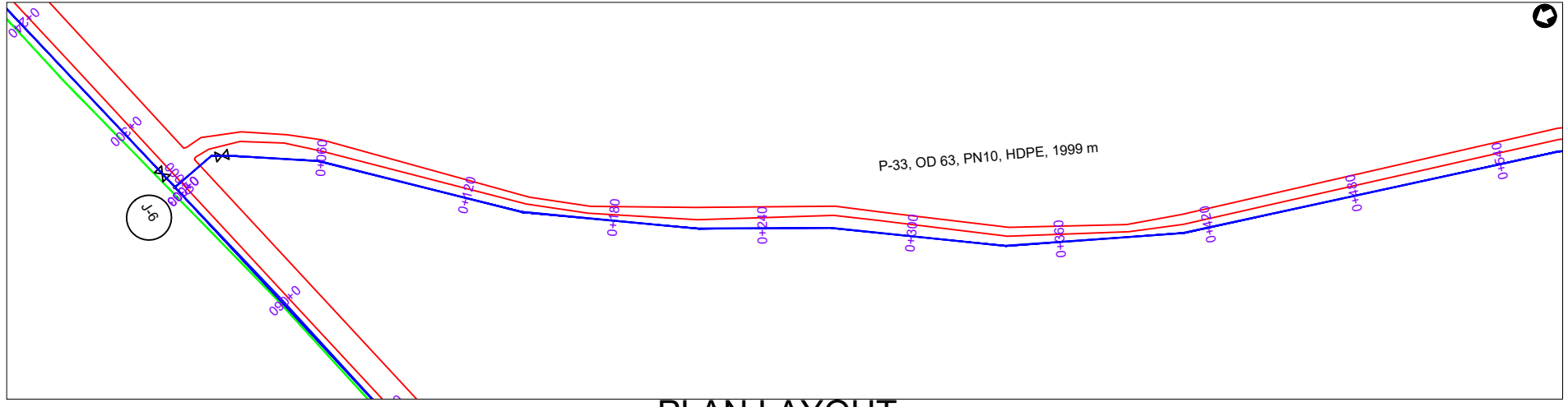
**PROJECT:**  
CONSULTANCY SERVICES FOR DESIGN  
REVIEW OF MBALE WATER  
AND SANITATION PROJECT

CONSULTANT:

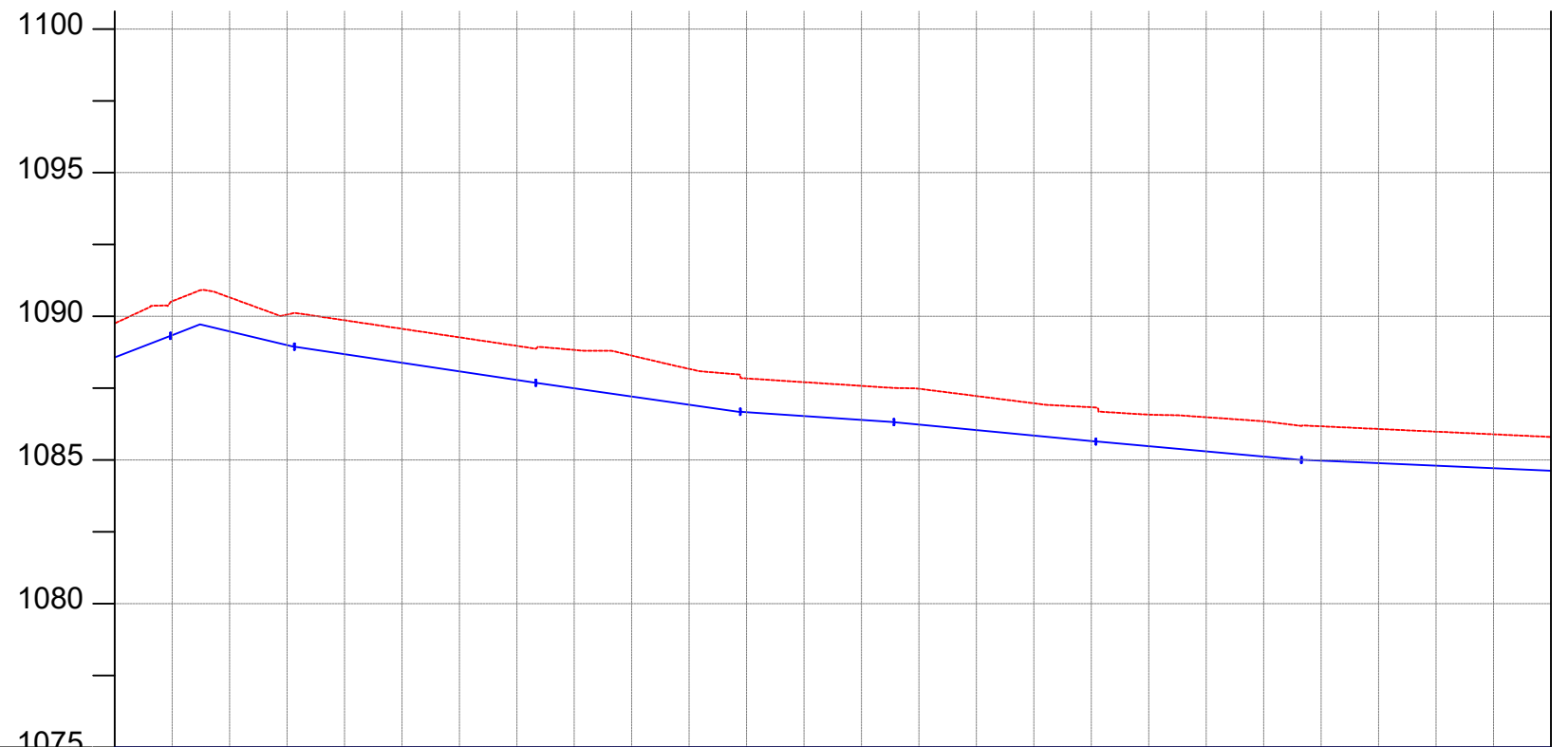
**Drawing Title:**  
KADAMA TOWN  
**DL-17 (CH 0+000.00 - 0+333.24)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-17 (CH 0+000.00 - 0+333.24)	
Sheet No.: 1	Format: A3





**PLAN LAYOUT**



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+200		0+240		0+280		0+320		0+360		0+400		0+440		0+480	0+500		
GROUND LEVEL(m)	1089.754	1090.527	1090.659	1090.061	1089.864	1089.567	1089.269	1088.972	1088.832	1088.636	1088.172	1087.839	1087.710	1087.581	1087.480	1087.227	1086.974	1086.838	1086.577	1086.489	1086.348	1086.173	1086.080	1085.988	1085.895	1085.802		
PIPE DETAILS	OD63, PN10, HDPE																											
PIPE INVERT(m)	1088.654	1089.427	1089.559	1088.961	1088.764	1088.467	1088.169	1087.872	1087.732	1087.536	1087.072	1086.739	1086.610	1086.481	1086.380	1086.127	1085.874	1085.738	1085.477	1085.389	1085.248	1085.073	1084.980	1084.888	1084.795	1084.702		

**AMENDMENTS**

No	Date	Revision

**NOTES**

1. All dimensions are in metres unless stated otherwise.
2. All levels are in metres above sea level.
3. For Site location see Dwg. MB/W/0.0.0
4. For Node details, see Dwg. MB/W/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- // Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

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MINISTRY OF WATER AND ENVIRONMENT

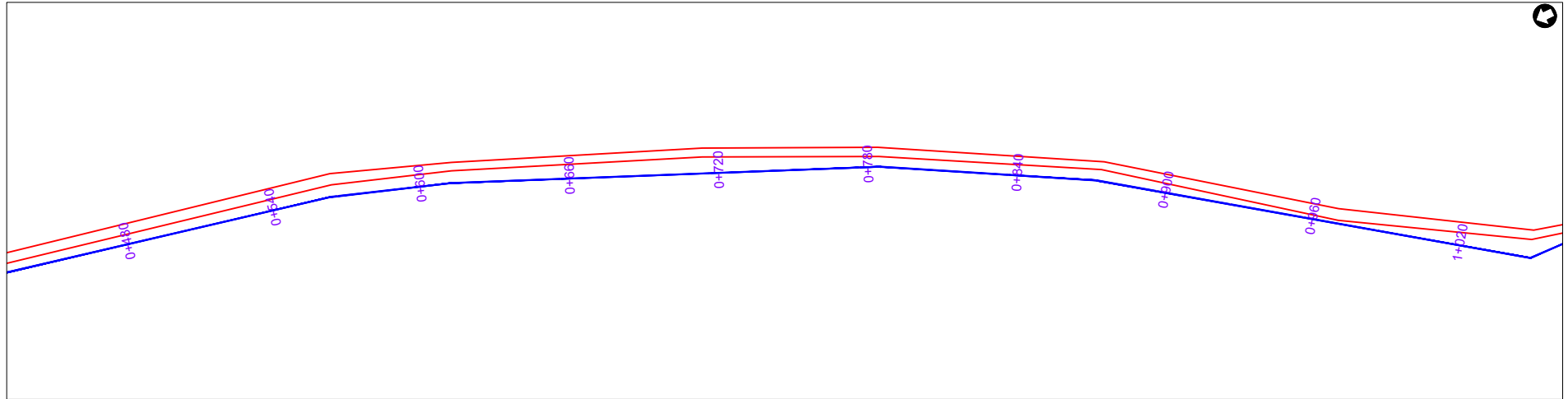
**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

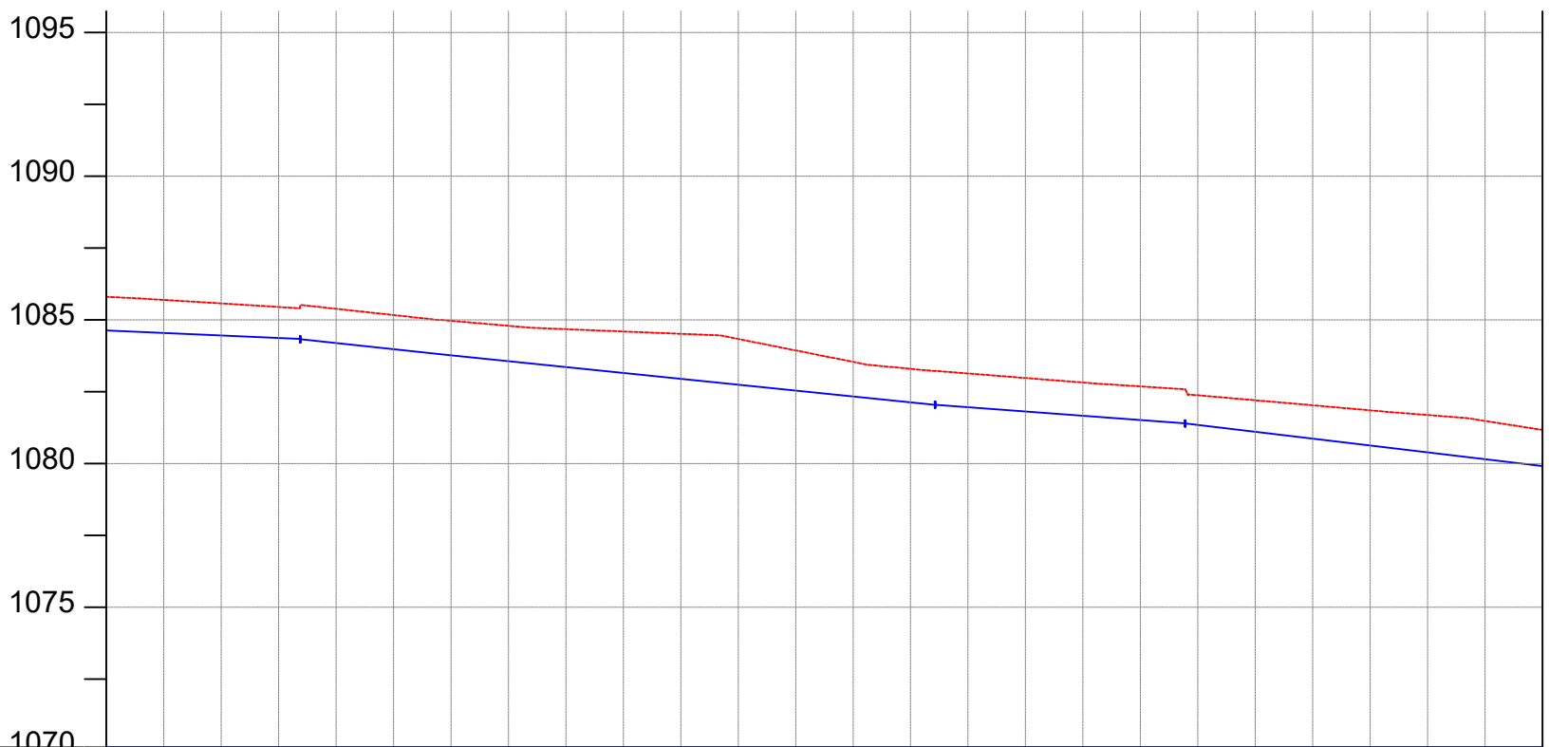


**Drawing Title:**  
KADAMA TOWN  
**DL-18 (CH 0+000.00 - 0+500.00)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-18 (CH 0+000.00 - 0+500.00)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+500	0+520	0+560	0+600	0+640	0+680	0+720	0+760	0+800	0+840	0+880	0+920	0+960	1+000														
GROUND LEVEL(m)	1085.802	1085.695	1085.573	1085.449	1085.385	1085.168	1084.968	1084.793	1084.676	1084.595	1084.515	1084.335	1083.937	1083.538	1083.296	1083.135	1082.977	1082.819	1082.685	1082.376	1082.202	1082.028	1081.852	1081.689	1081.481	1081.170		
PIPE DETAILS	OD63, PN10,HDPE																											
PIPE INVERT(m)	1084.702	1084.595	1084.473	1084.349	1084.285	1084.068	1083.868	1083.693	1083.576	1083.495	1083.415	1083.235	1082.837	1082.438	1082.196	1082.035	1081.877	1081.719	1081.585	1081.276	1081.102	1080.928	1080.752	1080.589	1080.381	1080.070		

AMENDMENTS		
No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
  2. All levels are in metres above sea level.
  3. For Site location see Dwg. MBW/0.0.0
  4. For Node details, see Dwg. MBW/6.0.0
  5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- = Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- N01 Node detail No. 01

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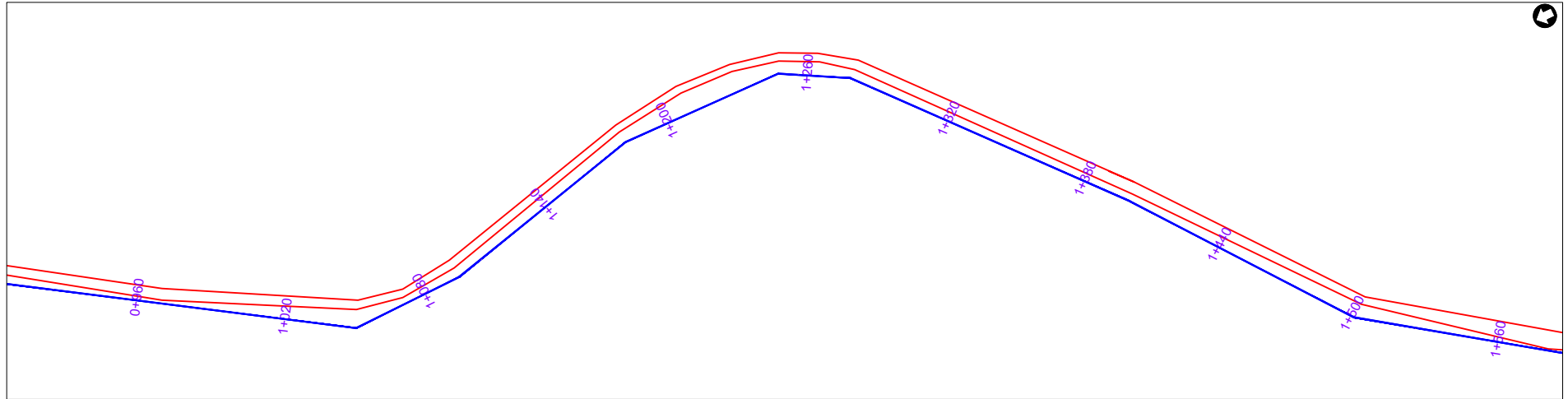
MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

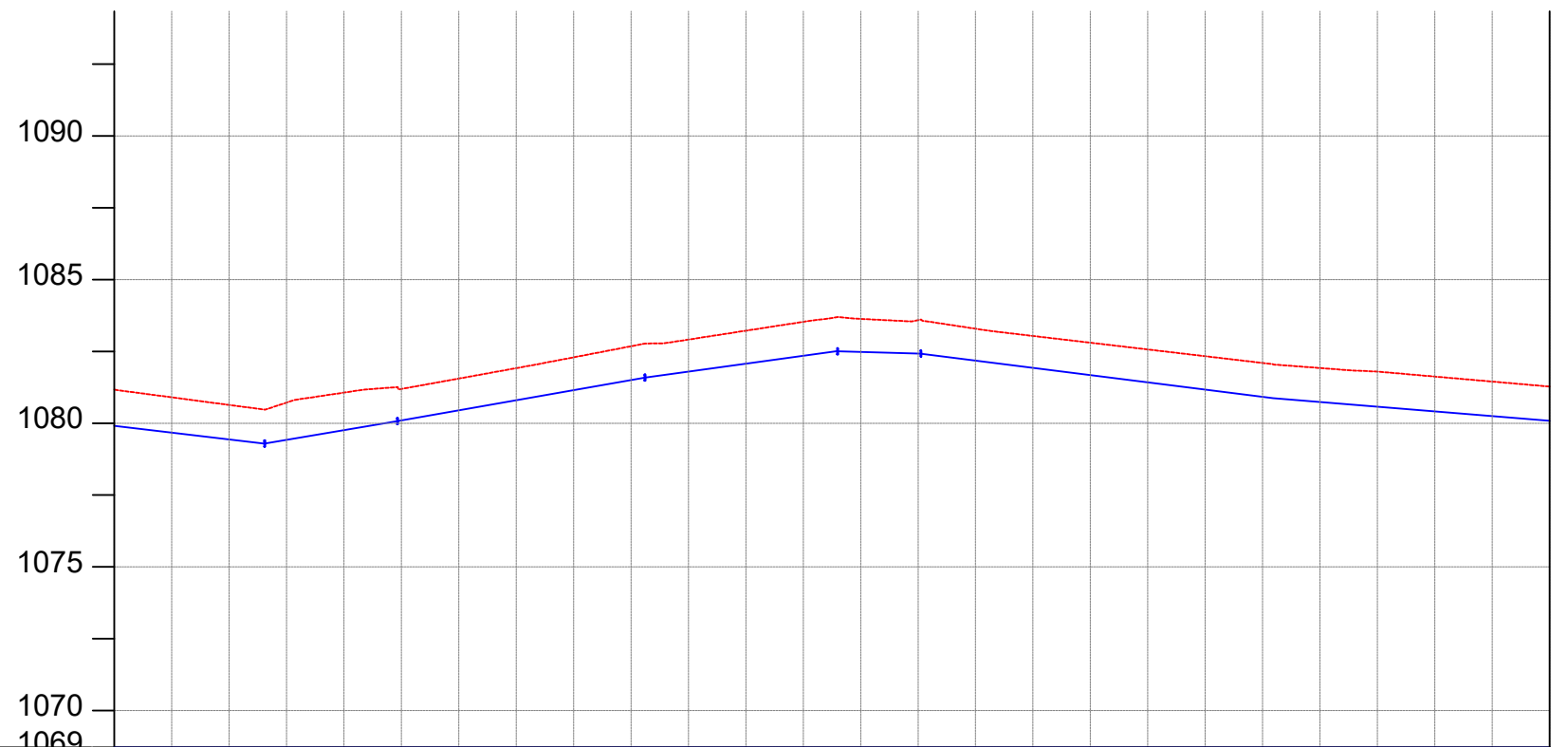
CONSULTANT:

**Drawing Title:**  
KADAMA TOWN  
**DL-18 (CH 0+500.00 - 1+000.00)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL-18 (CH 0+500.00 - 1+000.00)
Sheet No.: 2	Format: A3



**PLAN LAYOUT**



CHAINAGE	1+000		1+040		1+080		1+120		1+160		1+200		1+240		1+280		1+320		1+360		1+400		1+440		1+480	1+500		
GROUND LEVEL(m)	1081.170	1080.901	1080.637	1080.718	1081.066	1081.193	1081.555	1081.917	1082.294	1082.678	1082.911	1083.220	1083.529	1083.632	1083.588	1083.290	1083.038	1082.803	1082.568	1082.333	1082.098	1081.921	1081.798	1081.624	1081.449	1081.275		
PIPE DETAILS	OD63, PN10,HDPE																											
PIPE INVERT(m)	1080.070	1079.801	1079.537	1079.618	1079.966	1080.093	1080.455	1080.817	1081.194	1081.578	1081.811	1082.120	1082.429	1082.532	1082.488	1082.190	1081.938	1081.703	1081.468	1081.233	1080.998	1080.821	1080.698	1080.524	1080.349	1080.175		

**AMENDMENTS**

No	Date	Revision

**NOTES**

1. All dimensions are in metres unless stated otherwise.
2. All levels are in metres above sea level.
3. For Site location see Dwg. MBW/0.0.0
4. For Node details, see Dwg. MBW/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- - - Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- N01 Node detail No. 01

REPUBLIC OF UGANDA



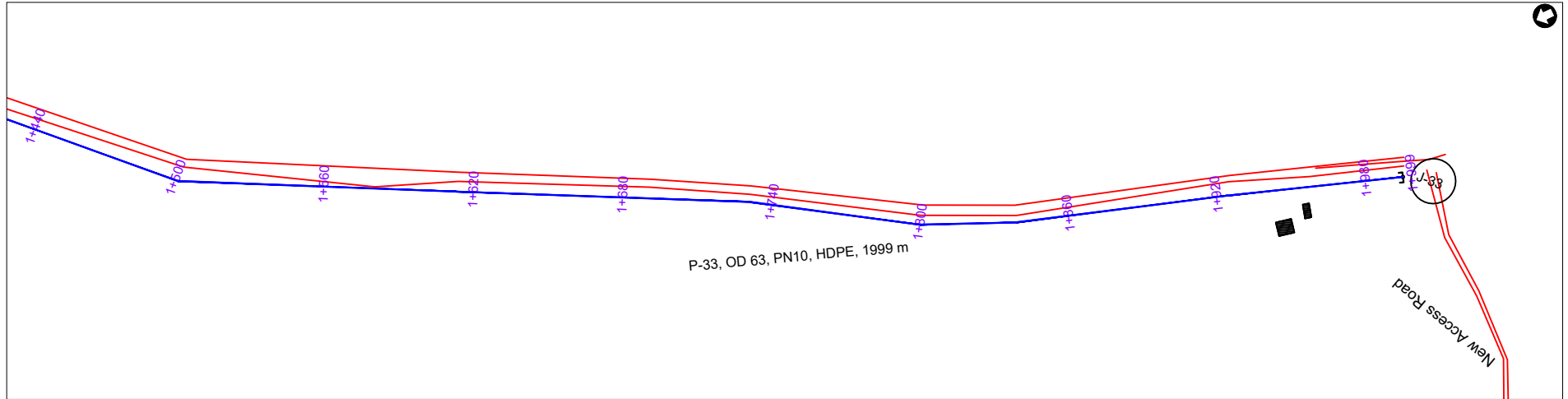
MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

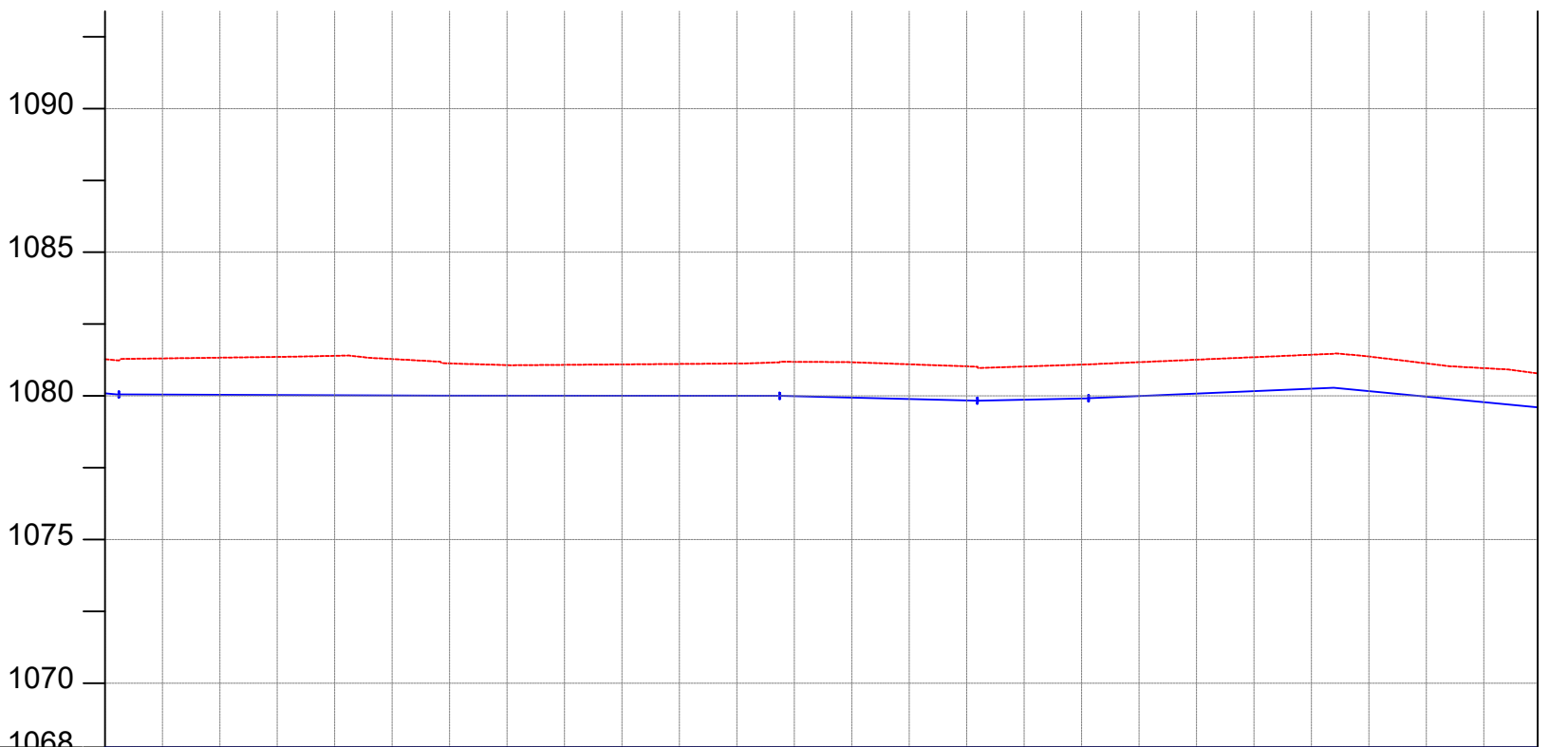
CONSULTANT:

**Drawing Title:**  
**KADAMA TOWN**  
**DL-18 (CH 1+000.00 - 1+500.00)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-18 (CH 1+000.00 - 1+500.00)	
Sheet No.: 3	Format: A3



**PLAN LAYOUT**



CHAINAGE	1+500	1+520	1+560	1+600	1+640	1+680	1+720	1+760	1+800	1+840	1+880	1+920	1+960	1+999														
GROUND LEVEL(m)	1081.275	1081.305	1081.331	1081.357	1081.395	1081.283	1081.130	1081.071	1081.081	1081.097	1081.112	1081.127	1081.186	1081.172	1081.100	1081.029	1081.023	1081.090	1081.174	1081.261	1081.347	1081.434	1081.372	1081.132	1080.967	1080.785		
PIPE DETAILS	— OD63, PN10, HDPE —																											
PIPE INVERT(m)	1080.175	1080.205	1080.231	1080.257	1080.295	1080.183	1080.030	1079.971	1079.981	1079.997	1080.012	1080.027	1080.086	1080.072	1080.000	1079.929	1079.923	1079.990	1080.074	1080.161	1080.247	1080.334	1080.272	1080.032	1079.867	1079.685		

**AMENDMENTS**

No	Date	Revision

- NOTES**
- All dimensions are in metres unless stated otherwise.
  - All levels are in metres above sea level.
  - For Site location see Dwg. MBW/0.0.0
  - For Node details, see Dwg. MBW/6.0.0
  - All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- // Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

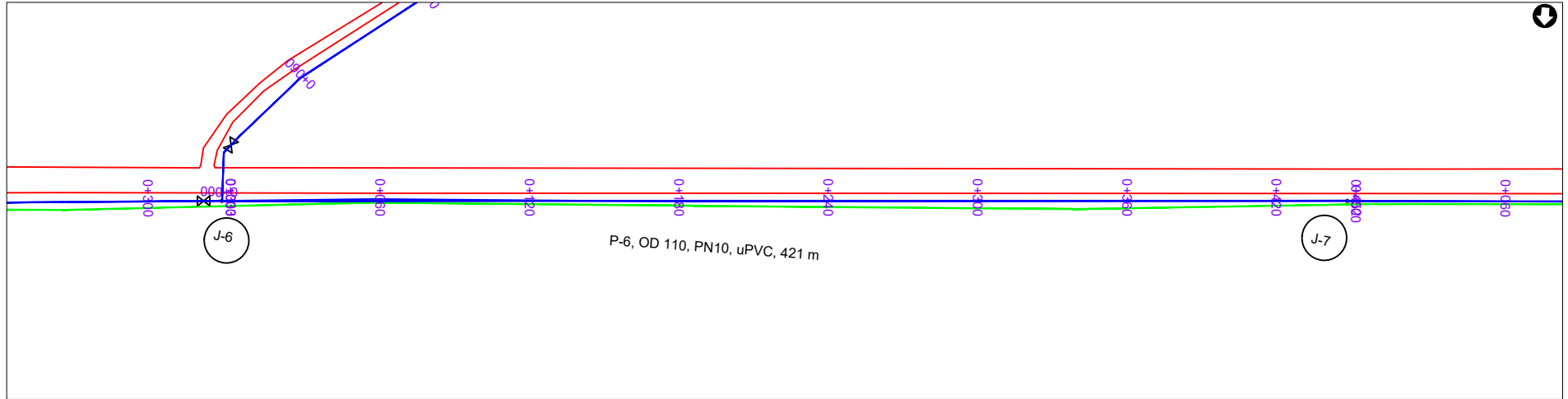
MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

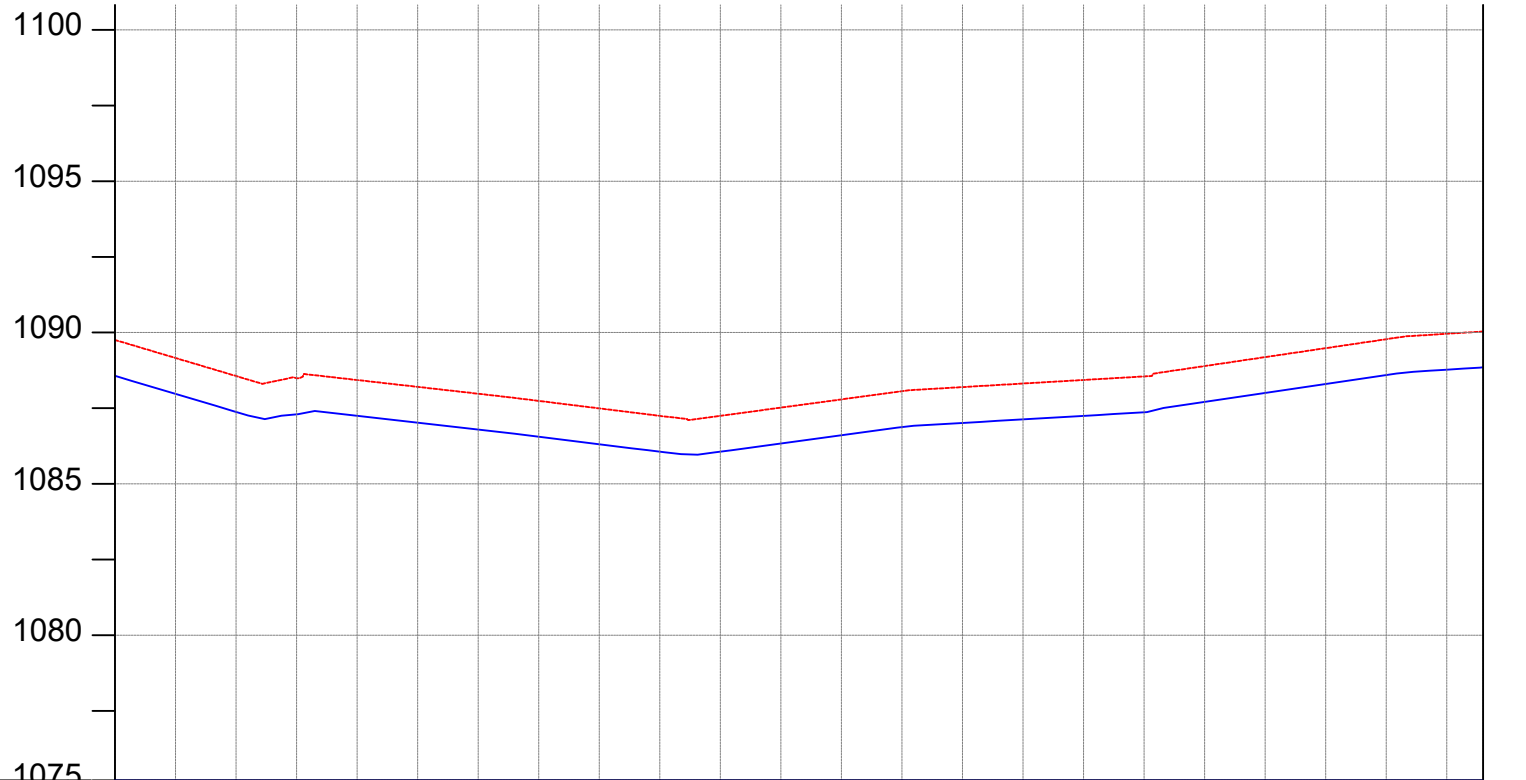
CONSULTANT:

**Drawing Title:**  
KADAMA TOWN  
**DL-18 (CH 1+500.00 - 1+998.77)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-18 (CH 1+500.00 - 1+998.77)	
Sheet No.: 4	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+200		0+240		0+280		0+320		0+360		0+400		0+440	0+452
GROUND LEVEL(m)	1089.754	1089.159	1088.563	1088.488	1088.432	1088.205	1087.979	1087.742	1087.495	1087.248	1087.250	1087.521	1087.791	1088.062	1088.199	1088.316	1088.433	1088.551	1088.893	1089.188	1089.484	1089.780	1089.959	1090.035
PIPE DETAILS	OD110, PN10, uPVC																							
PIPE INVERT(m)	1088.654	1088.059	1087.463	1087.388	1087.332	1087.105	1086.879	1086.642	1086.395	1086.148	1086.150	1086.421	1086.691	1086.962	1087.099	1087.216	1087.333	1087.451	1087.793	1088.088	1088.384	1088.680	1088.859	1088.935

**AMENDMENTS**

No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
  2. All levels are in metres above sea level.
  3. For Site location see Dwg. MBW/0.0.0
  4. For Node details, see Dwg. MBW/6.0.0
  5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- // Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

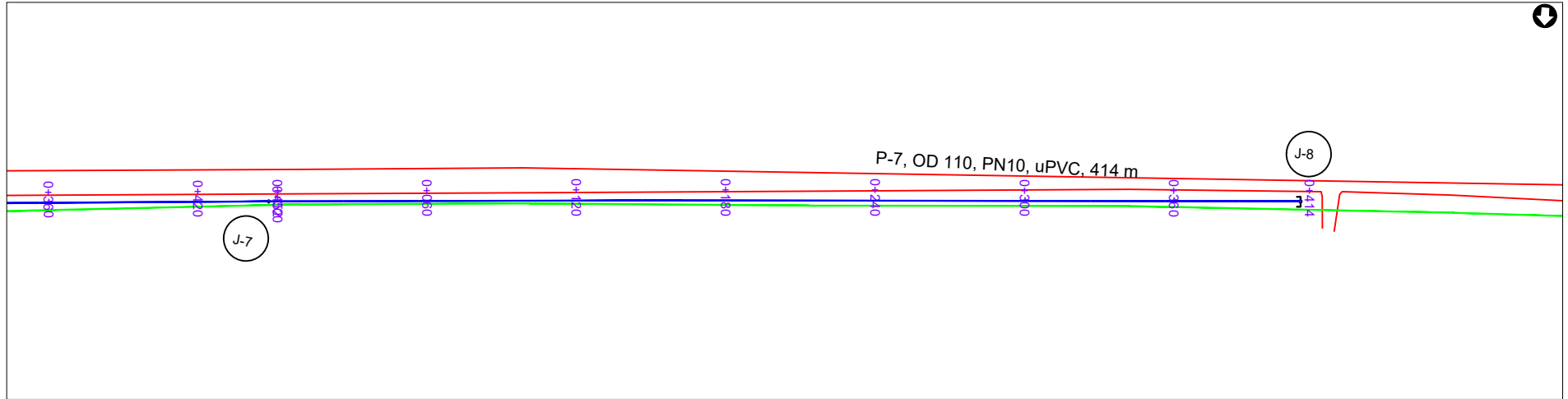
MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

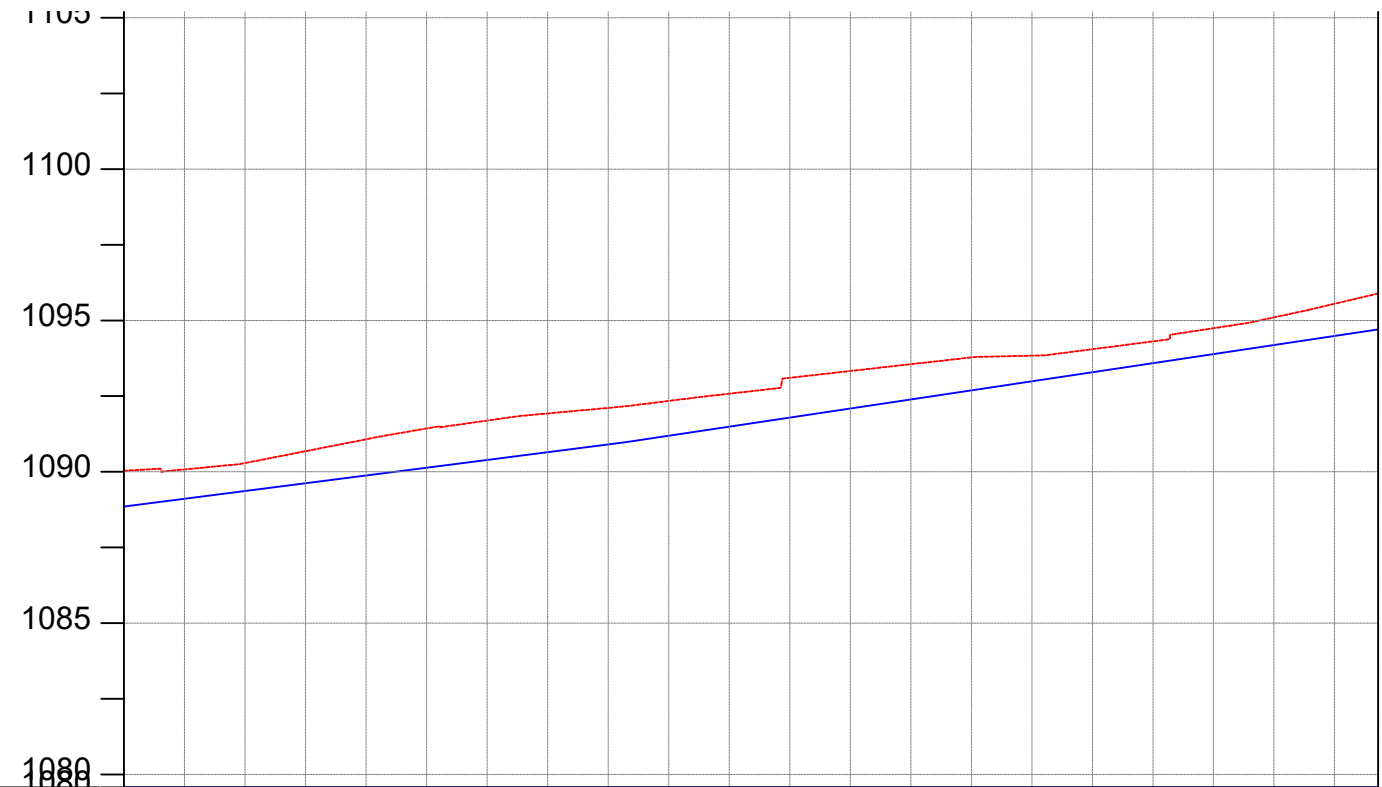
CONSULTANT:

**Drawing Title:**  
KADAMA TOWN  
**DL-19 (CH 0+000.00 - 0+452.00)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-19 (CH 0+000.00 - 0+452.00)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+200		0+240		0+280		0+320		0+360		0+400	0+414
GROUND LEVEL(m)	1090.035	1090.079	1090.288	1090.681	1091.073	1091.430	1091.692	1091.928	1092.110	1092.341	1092.580	1093.105	1093.329	1093.554	1093.779	1093.837	1094.050	1094.308	1094.744	1095.101	1095.550	1095.889
PIPE DETAILS	OD110, PN10, uPVC																					
PIPE INVERT(m)	1088.935	1088.979	1089.188	1089.581	1089.973	1090.330	1090.592	1090.828	1091.010	1091.241	1091.480	1092.005	1092.229	1092.454	1092.679	1092.737	1092.950	1093.208	1093.644	1094.001	1094.450	1094.789

**AMENDMENTS**

No	Date	Revision

**NOTES**

1. All dimensions are in metres unless stated otherwise.
2. All levels are in metres above sea level.
3. For Site location see Dwg. MBW/0.0.0
4. For Node details, see Dwg. MBW/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- Node detail No. 01

REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

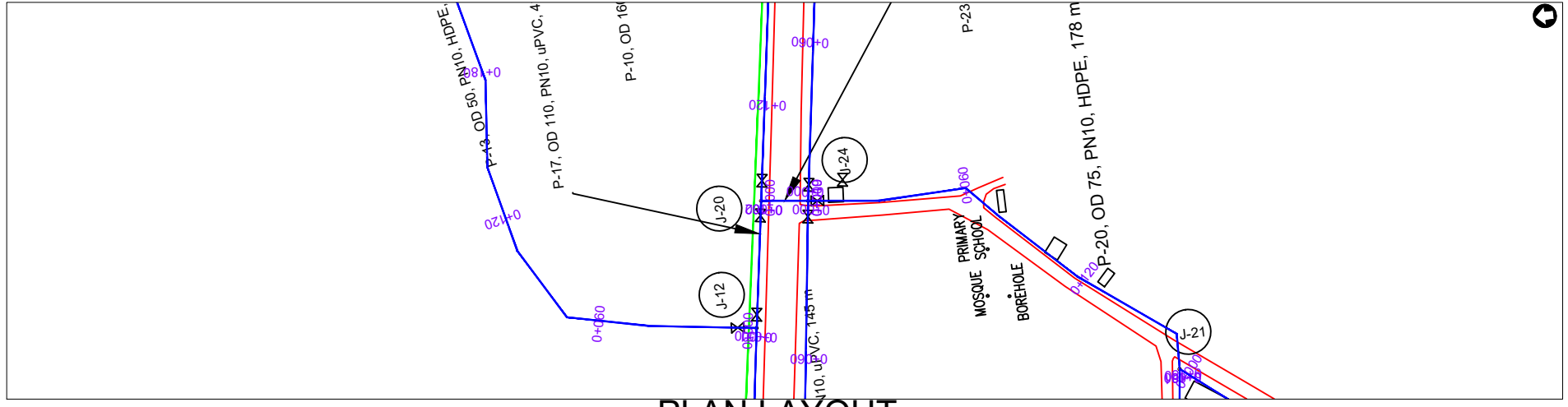
CONSULTANT:



**Drawing Title:**

**KADAMA TOWN  
DL-20 (CH 0+000.00 - 0+414.40)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-20 (CH 0+000.00 - 0+414.40)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**

	1120	
	1115	
	1110	
	1105	
	1100	
	1097	
CHAINAGE	0+000	0+019
GROUND LEVEL(m)	1110.251	1110.179
PIPE DETAILS	Ø160, PN10, uPVC	
PIPE INVERT(m)	1109.151	1109.079

AMENDMENTS		
No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
  2. All levels are in metres above sea level.
  3. For Site location see Dwg. MB/W/0.0.0
  4. For Node details, see Dwg. MB/W/6.0.0
  5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

	Transmission Line
	New Distribution Line
	Road
	Double Orifice Air Valve
	Type 2 Washout
	Node detail No. 01

REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

PROJECT:  
CONSTRUCTION WORKS FOR WATER SUPPLY  
AND SANITATION SYSTEM IN SMALL TOWNS  
OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

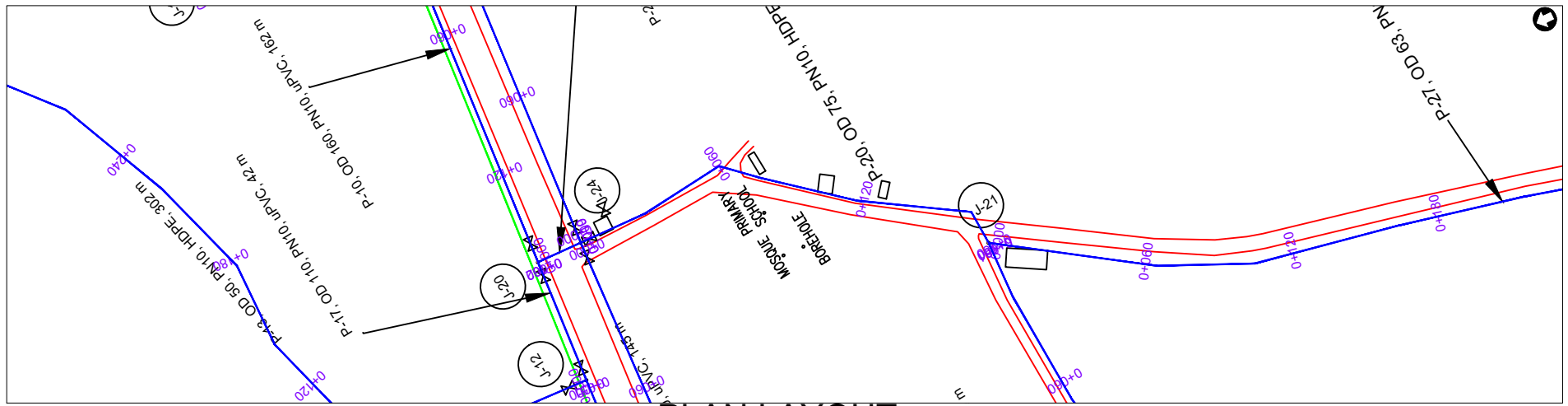




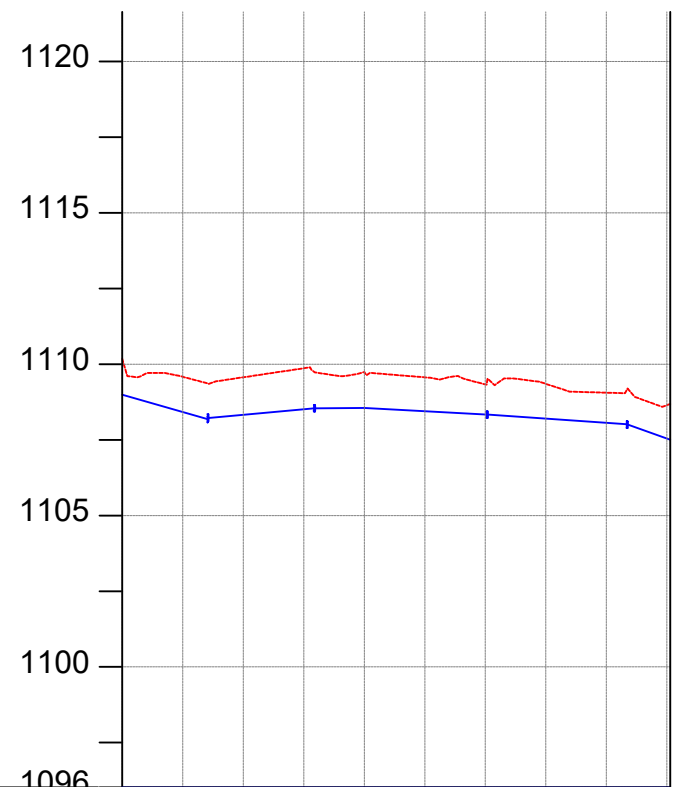
**Drawing Title:**

KADAMA TOWN  
**DL-21 (CH 0+000.00 - 0+018.87)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-21 (CH 0+000.00 - 0+018.87)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000		0+040		0+080		0+120		0+160	0+181
GROUND LEVEL(m)	1110.179	1109.584	1109.567	1109.865	1109.739	1109.565	1109.332	1109.350	1109.058	<b>1108.666</b>
PIPE DETAILS	— OD75, PN10, HDPE —									
PIPE INVERT(m)	1109.079	1108.484	1108.467	1108.765	1108.639	1108.465	1108.232	1108.250	1107.958	<b>1107.566</b>

**AMENDMENTS**

No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
  2. All levels are in metres above sea level.
  3. For Site location see Dwg. MB/W/0.0.0
  4. For Node details, see Dwg. MB/W/6.0.0
  5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

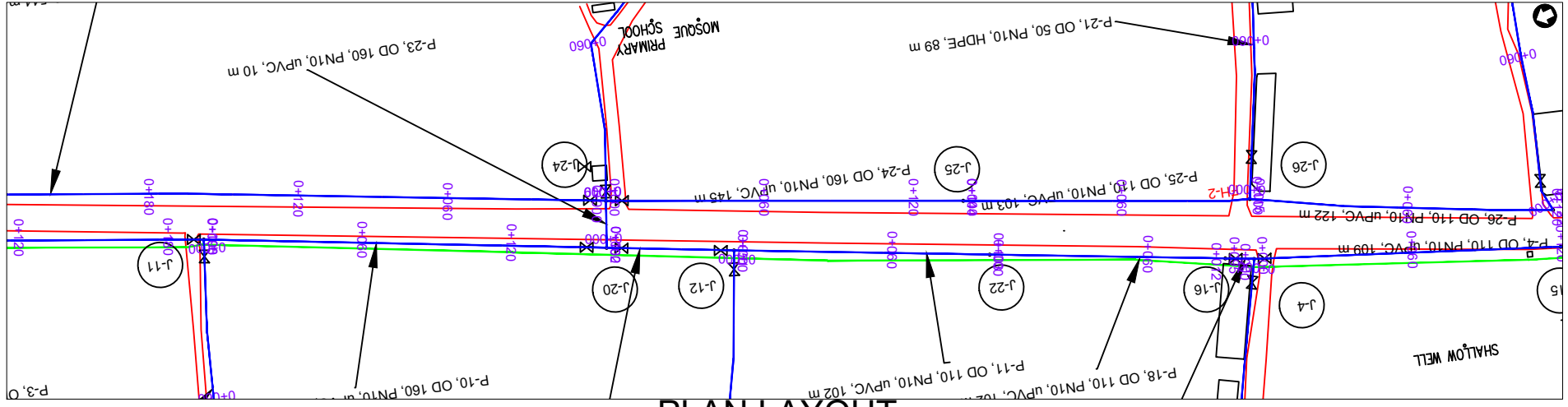
**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

**Drawing Title:**  
KADAMA TOWN  
**DL-22 (CH 0+000.00 - 0+181.09)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-22 (CH 0+000.00 - 0+181.09)	
Sheet No.: 1	Format: A3





**PLAN LAYOUT**



CHAINAGE	0+000	0+040	0+080	0+120	0+144			
GROUND LEVEL(m)	1110.179	1109.346	1108.936	1108.444	1107.993	1107.461	1106.798	1106.370
PIPE DETAILS	— OD160, PN10, uPVC —							
PIPE INVERT(m)	1109.079	1108.246	1107.836	1107.344	1106.893	1106.361	1105.698	1105.270

AMENDMENTS		
No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
  2. All levels are in metres above sea level.
  3. For Site location see Dwg. MBW/0.0.0
  4. For Node details, see Dwg. MBW/6.0.0
  5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

MINISTRY OF WATER AND ENVIRONMENT

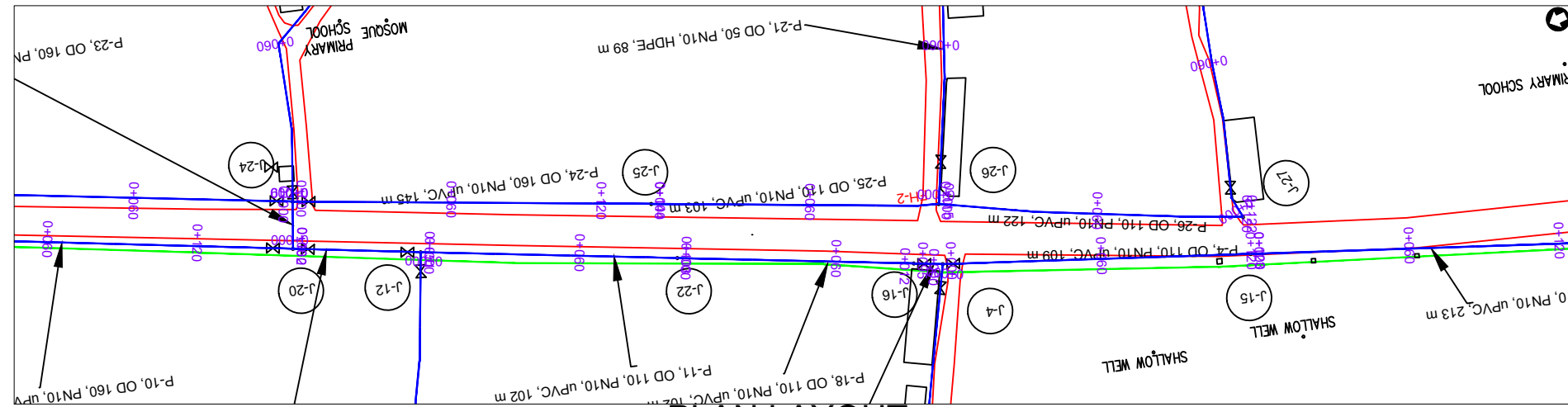
**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

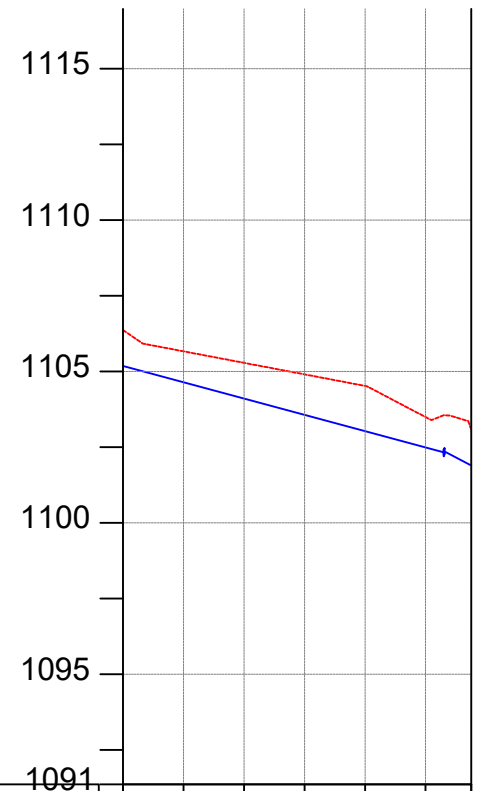
**Drawing Title:**

**KADAMA TOWN**  
**DL-23 (CH 0+000.00 - 0+143.52)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-23 (CH 0+000.00 - 0+143.52)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000	0+040	0+080	0+115
GROUND LEVEL(m)	1106.370	1105.667	1104.905	1103.496
PIPE DETAILS	— OD110, PN10, uPVC —			
PIPE INVERT(m)	1105.270	1104.567	1103.805	1102.396

**AMENDMENTS**

No	Date	Revision

**NOTES**

1. All dimensions are in metres unless stated otherwise.
2. All levels are in metres above sea level.
3. For Site location see Dwg. MBW/0.0.0
4. For Node details, see Dwg. MBW/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**

CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

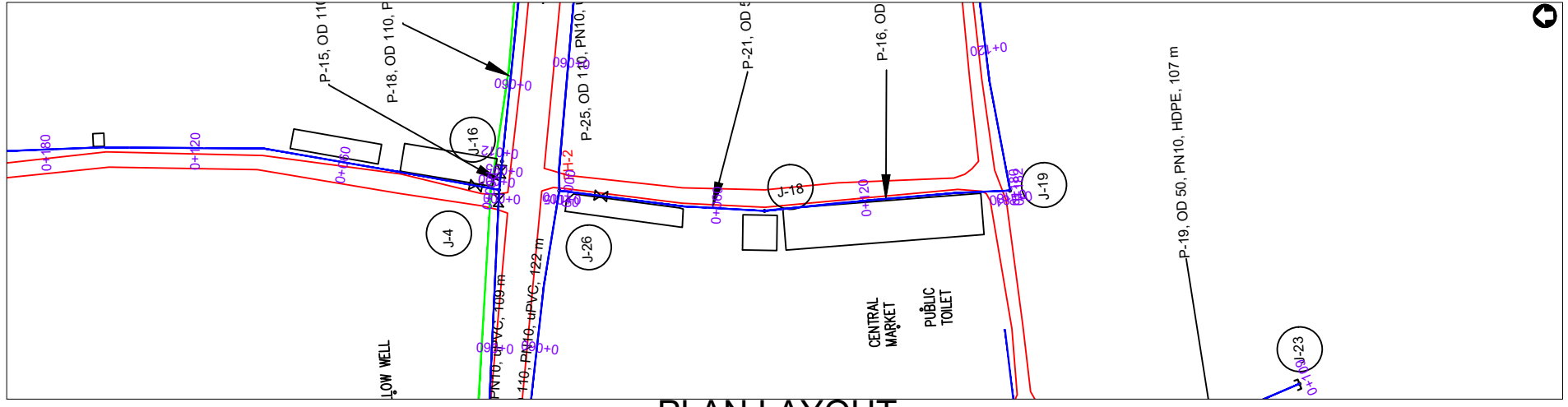
**CONSULTANT:**



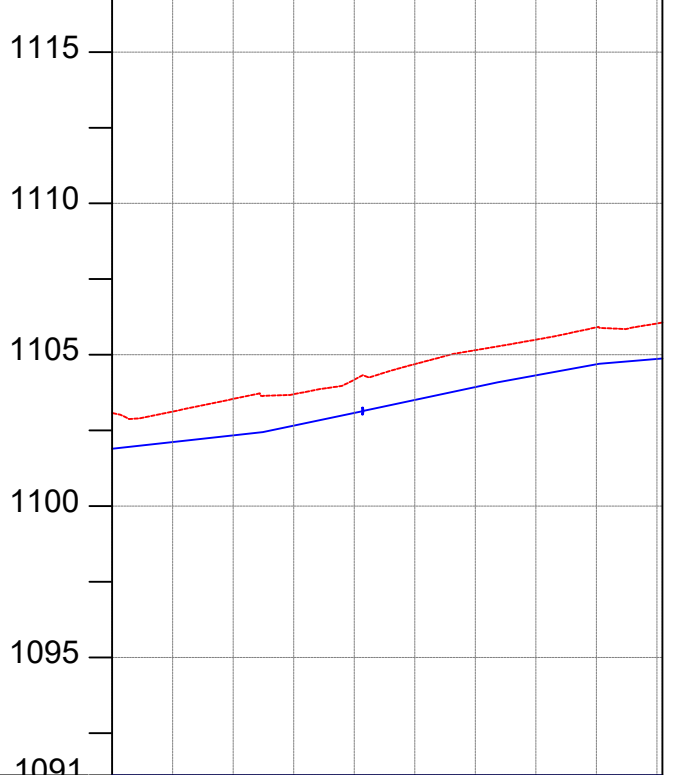
**Drawing Title:**

KADAMA TOWN  
**DL-24 (CH 0+000.00 - 0+115.09)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-24 (CH 0+000.00 - 0+115.09)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000	0+040	0+080	0+120	0+160	0+182
GROUND LEVEL(m)	1103.080	1103.125	1103.541	1103.697	1104.174	1104.691
PIPE DETAILS	— OD50, PN10, HDPE —					
PIPE INVERT(m)	1101.980	1102.025	1102.441	1102.597	1103.074	1103.591
	1104.052	1104.398	1104.806	1104.964	1105.152	1105.498

**AMENDMENTS**

No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
  2. All levels are in metres above sea level.
  3. For Site location see Dwg. MB/W/0.0.0
  4. For Node details, see Dwg. MB/W/6.0.0
  5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

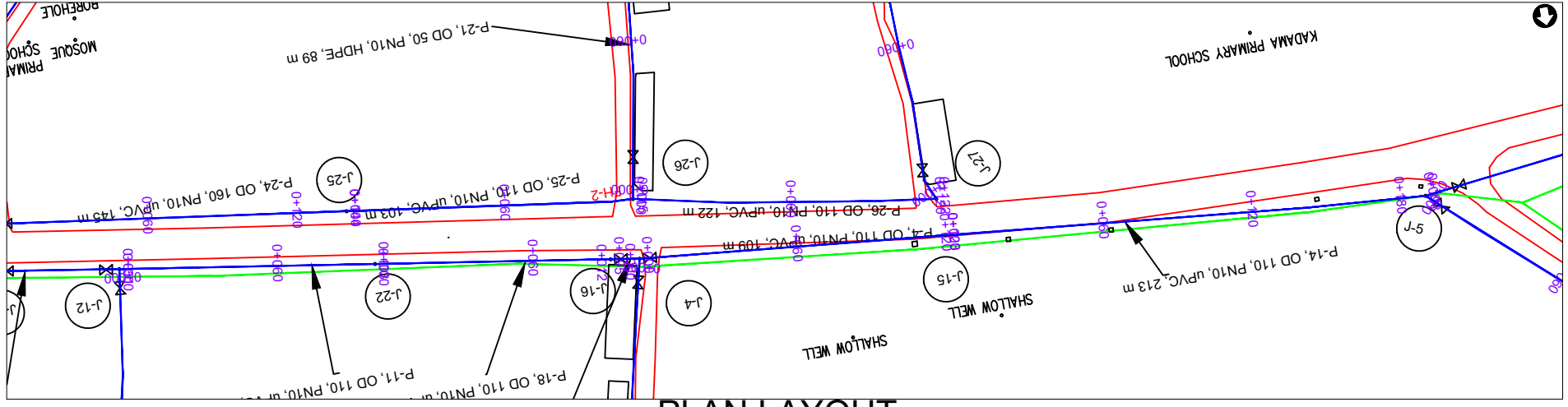
MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

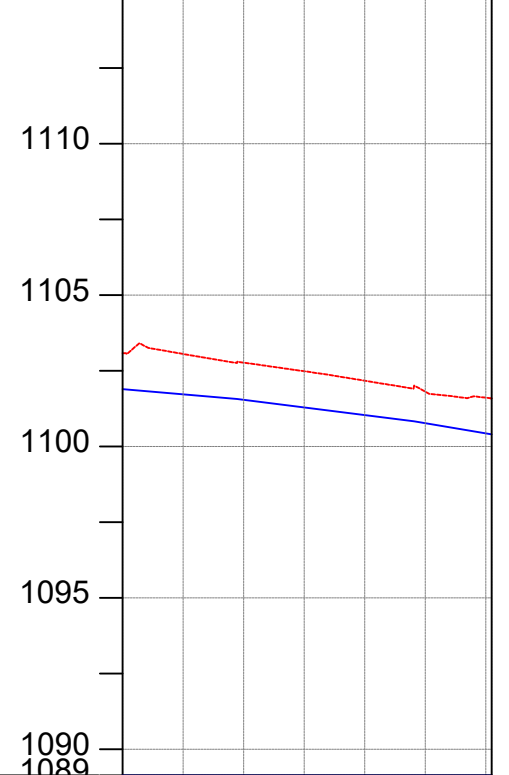
CONSULTANT:

**Drawing Title:**  
**KADAMA TOWN**  
**DL-25 (CH 0+000.00 - 0+181.83)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-25 (CH 0+000.00 - 0+181.83)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000	0+040	0+080	0+120
GROUND LEVEL(m)	1103.080	1103.055	1102.770	1101.585
PIPE DETAILS	OD110, PN10, uPVC			
PIPE INVERT(m)	1101.980	1101.955	1101.670	1100.485

**AMENDMENTS**

No	Date	Revision

**NOTES**

1. All dimensions are in metres unless stated otherwise.
2. All levels are in metres above sea level.
3. For Site location see Dwg. MBW/0.0.0
4. For Node details, see Dwg. MBW/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- - - Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

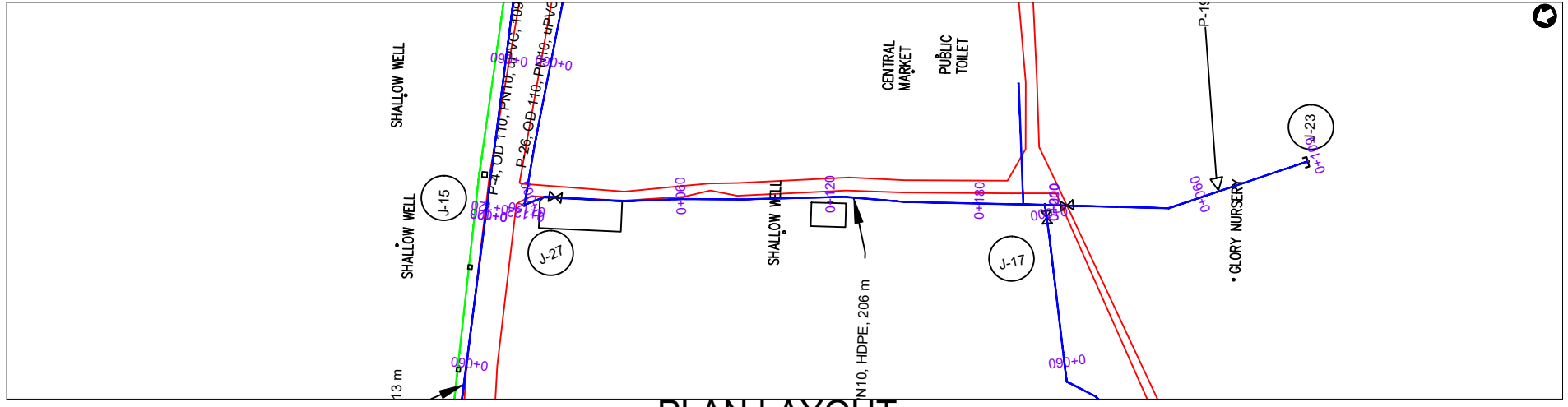
**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

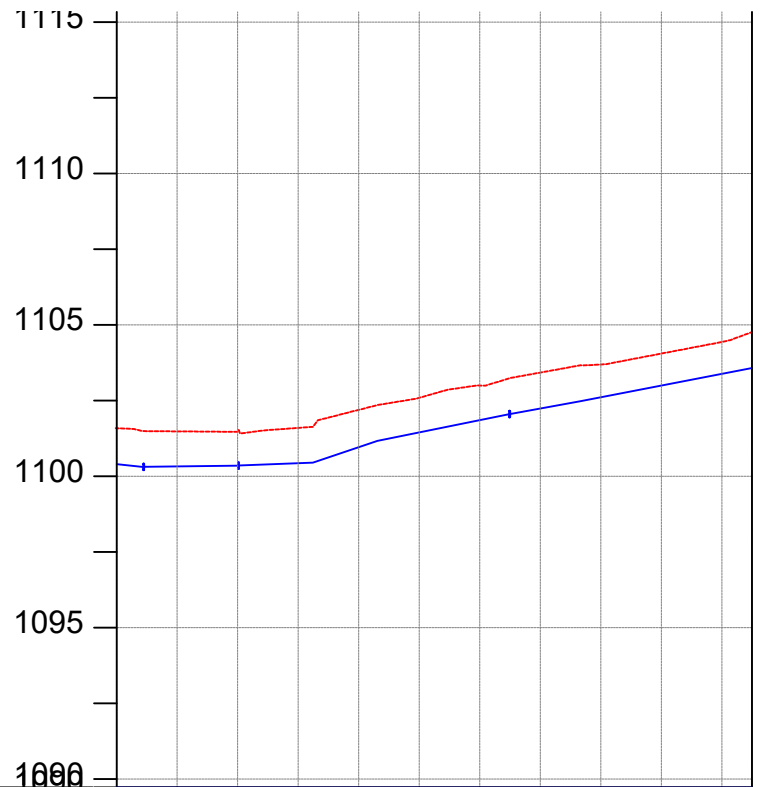


**Drawing Title:**  
KADAMA TOWN  
**DL-26 (CH 0+000.00 - 0+121.95)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-26 (CH 0+000.00 - 0+121.95)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000	0+040	0+080	0+120	0+160	0+200	0+210					
GROUND LEVEL(m)	1101.585	1101.481	1101.472	1101.596	1102.193	1102.590	1102.996	1103.424	1103.690	1104.052	1104.438	
PIPE DETAILS	OD63, PN10,HDPE											
PIPE INVERT(m)	1100.485	1100.381	1100.372	1100.496	1101.093	1101.490	1101.896	1102.324	1102.590	1102.952	1103.338	

**AMENDMENTS**

No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
  2. All levels are in metres above sea level.
  3. For Site location see Dwg. MB/W/0.0.0
  4. For Node details, see Dwg. MB/W/6.0.0
  5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

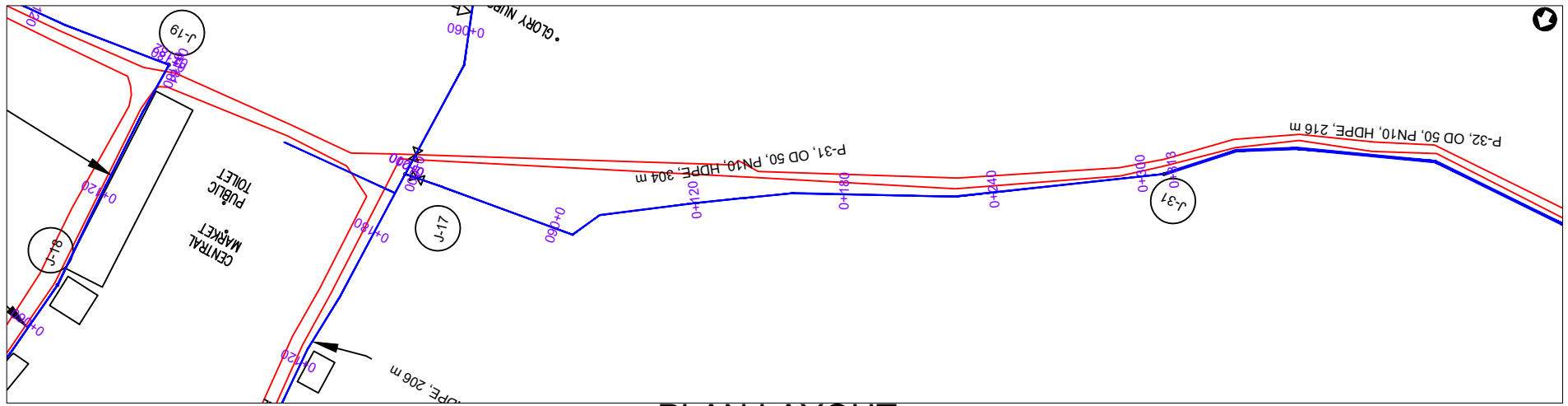
MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

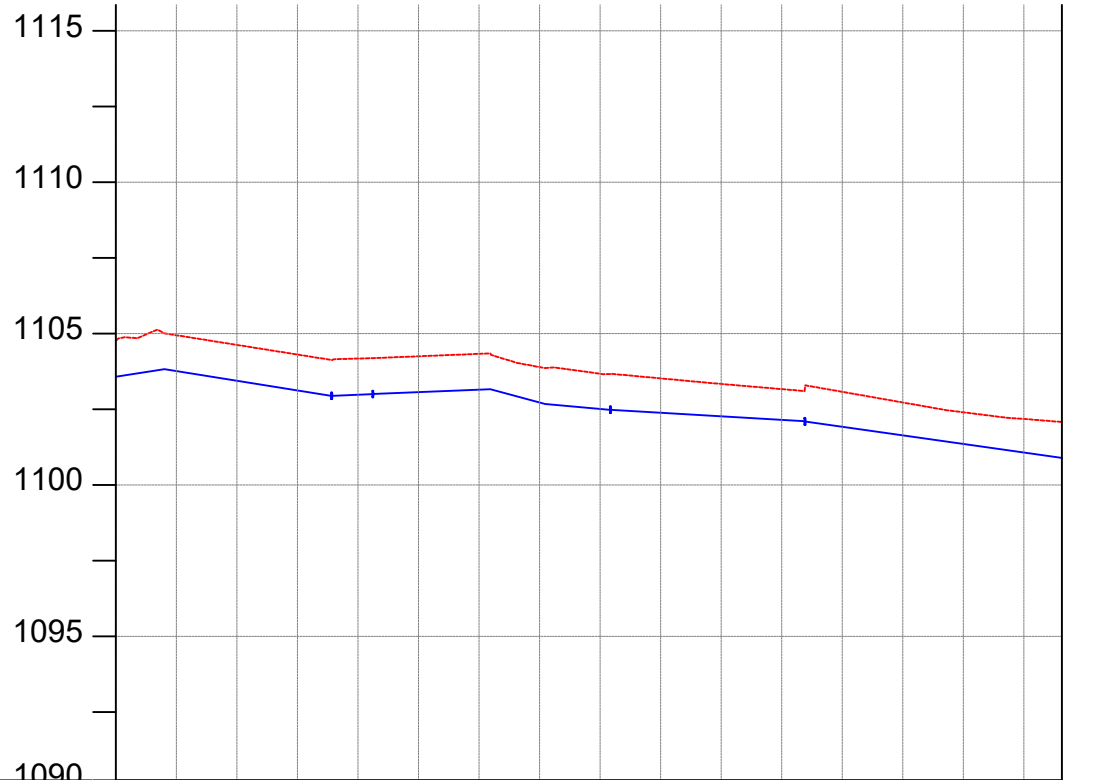
CONSULTANT:

**Drawing Title:**  
KADAMA TOWN  
**DL-27 (CH 0+000.00 - 0+209.92)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL-27 (CH 0+000.00 - 0+209.92)
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+200		0+240		0+280		0+313
GROUND LEVEL(m)	1104.762	1104.946	1104.627	1104.309	1104.177	1104.251	1104.333	1103.895	1103.675	1103.521	1103.338	1103.167	1103.077	1102.725	1102.402	1102.181	1102.080
PIPE DETAILS	OD50, PN10,HDPE																
PIPE INVERT(m)	1103.662	1103.846	1103.527	1103.209	1103.077	1103.151	1103.233	1102.795	1102.575	1102.421	1102.238	1102.067	1101.977	1101.625	1101.302	1101.081	1100.980

**AMENDMENTS**

No	Date	Revision

**NOTES**

1. All dimensions are in metres unless stated otherwise.
2. All levels are in metres above sea level.
3. For Site location see Dwg. MBW/0.0.0
4. For Node details, see Dwg. MBW/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- // Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA



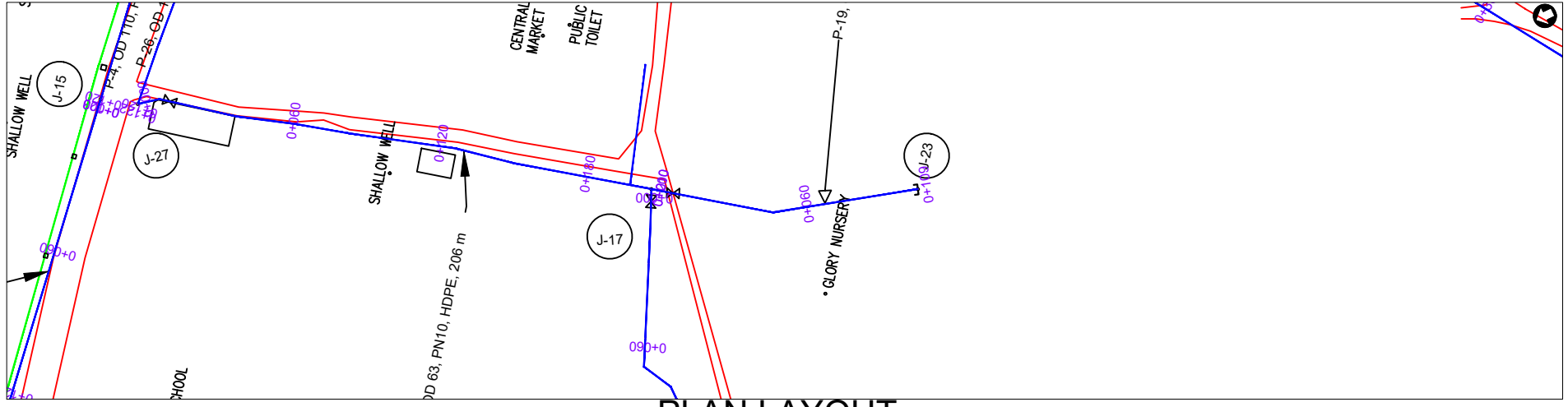
MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

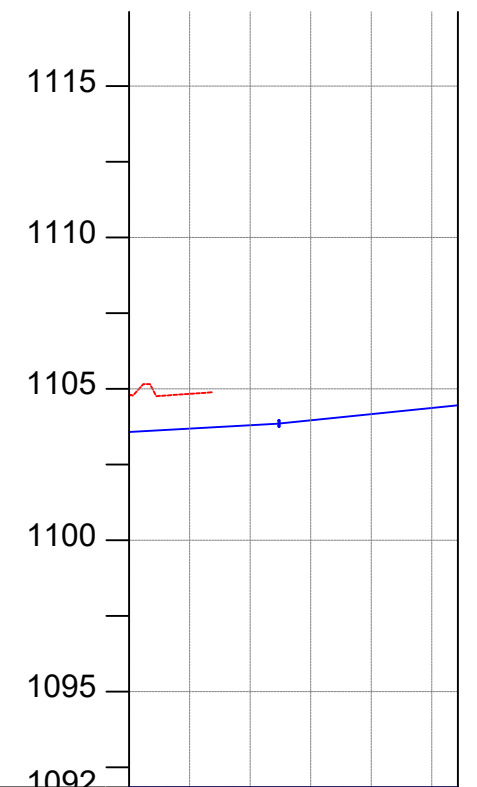
CONSULTANT:

**Drawing Title:**  
KADAMA TOWN  
**DL-28 (CH 0+000.00 - 0+312.58)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-28 (CH 0+000.00 - 0+312.58)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000	0+040	0+080	0+109
GROUND LEVEL(m)	1104.762	1104.835		
PIPE DETAILS	— OD50, PN10, HDPE —			
PIPE INVERT(m)	1103.662	1103.735		

**AMENDMENTS**

No	Date	Revision

**NOTES**

1. All dimensions are in metres unless stated otherwise.
2. All levels are in metres above sea level.
3. For Site location see Dwg. MB/W/0.0.0
4. For Node details, see Dwg. MB/W/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

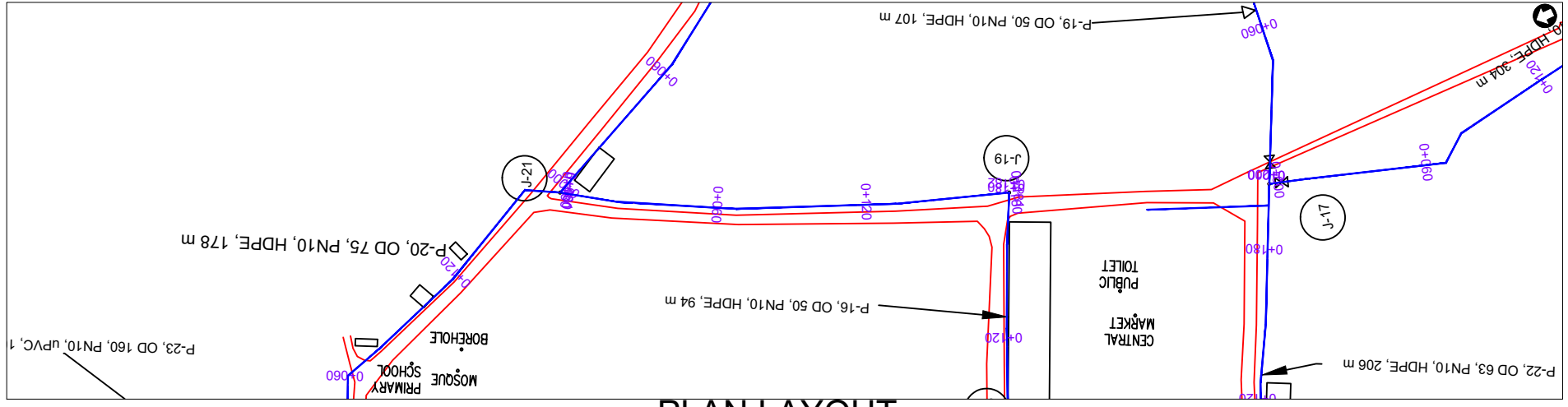
CONSULTANT:



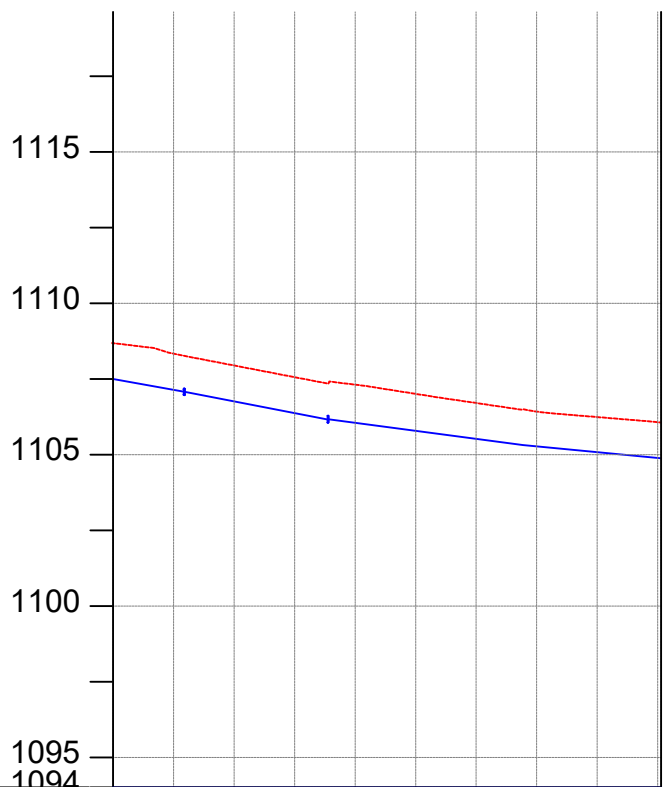
**Drawing Title:**

KADAMA TOWN  
**DL-30 (CH 0+000.00 - 0+108.66)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-30 (CH 0+000.00 - 0+108.66)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000		0+040		0+080		0+120		0+160	0+181
GROUND LEVEL(m)	1108.686	1108.339	1107.948	1107.562	1107.314	1107.010	1106.708	1106.423	1106.244	1106.064
PIPE DETAILS	— OD50, PN10, HDPE —									
PIPE INVERT(m)	1107.586	1107.239	1106.848	1106.462	1106.214	1105.910	1105.608	1105.323	1105.144	1104.964

**AMENDMENTS**

No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
  2. All levels are in metres above sea level.
  3. For Site location see Dwg. MB/W/0.0.0
  4. For Node details, see Dwg. MB/W/6.0.0
  5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

MINISTRY OF WATER AND ENVIRONMENT

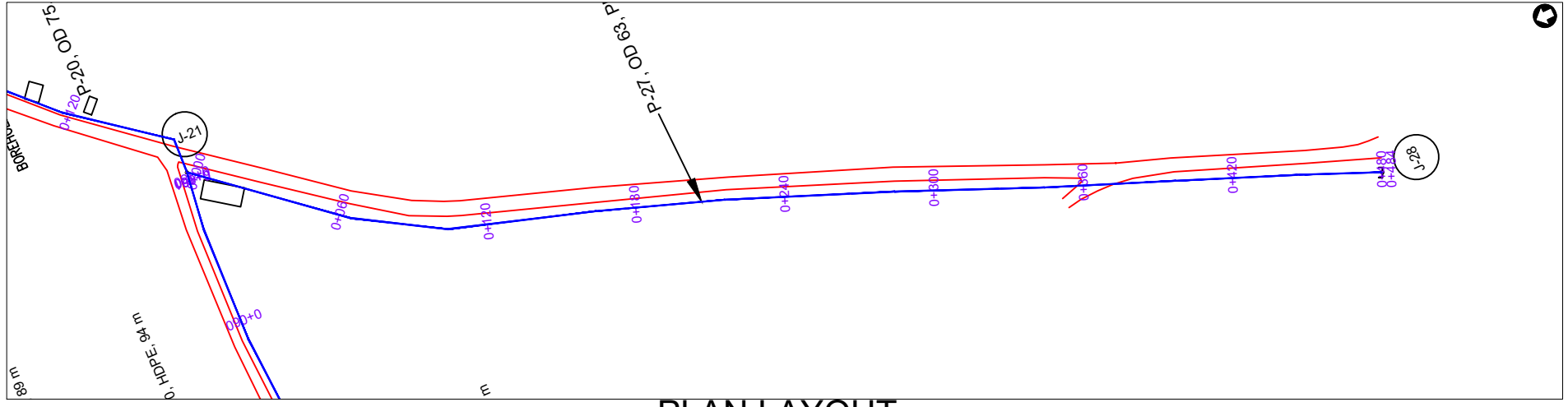
**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

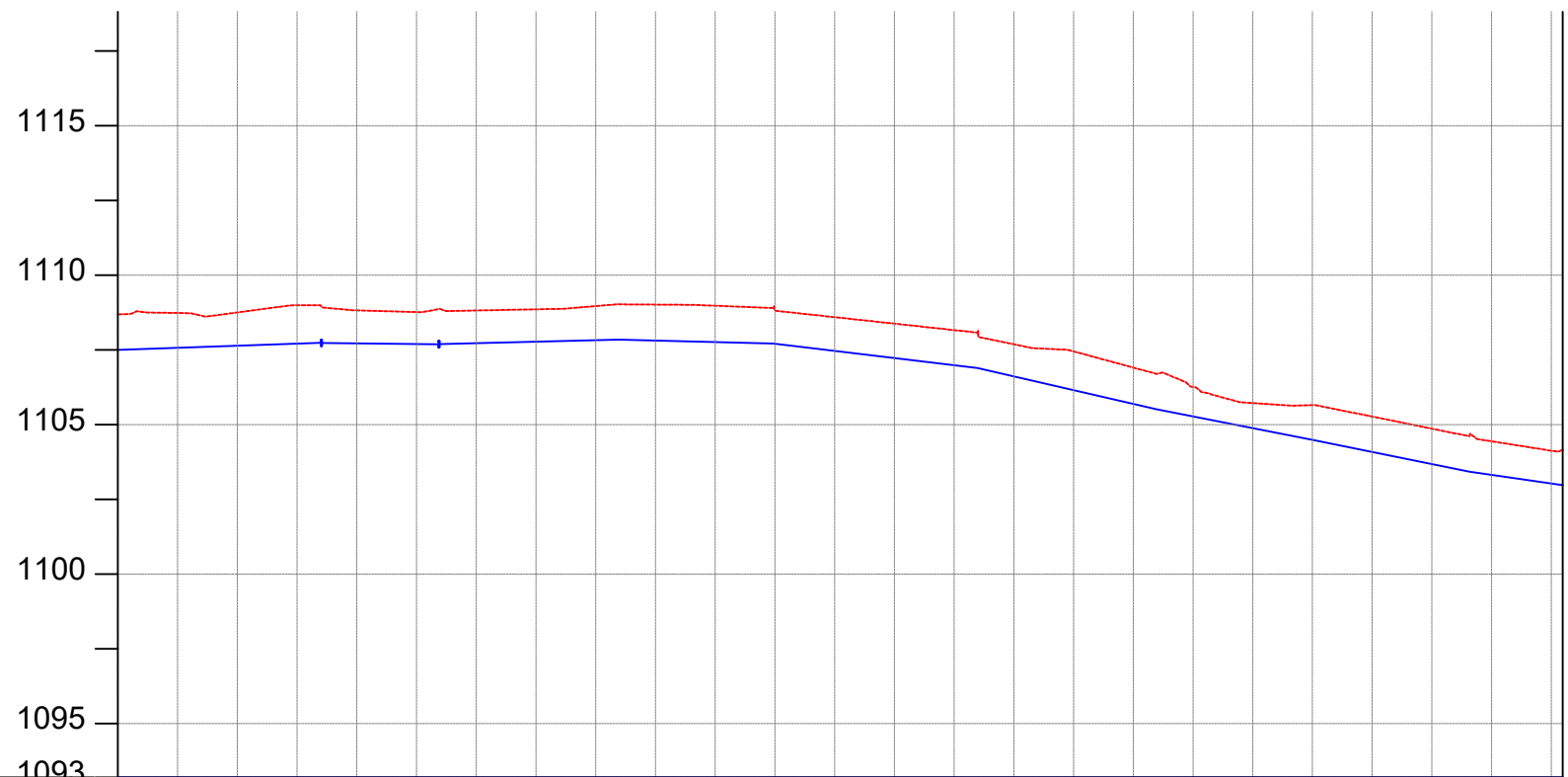
**Drawing Title:**  
KADAMA TOWN  
**DL-31 (CH 0+000.00 - 0+181.08)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-31 (CH 0+000.00 - 0+181.08)	
Sheet No.: 1	Format: A3





**PLAN LAYOUT**



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+200		0+240		0+280		0+320		0+360		0+400		0+440		0+484	
GROUND LEVEL(m)	1108.686	1108.735	1108.752	1108.990	1108.821	1108.764	1108.817	1108.856	1108.965	1109.014	1108.977	1108.810	1108.593	1108.377	1108.160	1107.685	1107.449	1106.907	1106.258	1105.719	1105.653	1105.267	1104.863	1104.440	1104.156	
PIPE DETAILS	OD63, PN10,HDPE																									
PIPE INVERT(m)	1107.586	1107.635	1107.652	1107.890	1107.721	1107.664	1107.717	1107.756	1107.865	1107.914	1107.877	1107.710	1107.493	1107.277	1107.060	1106.585	1106.349	1105.807	1105.158	1104.619	1104.553	1104.167	1103.763	1103.340	1103.056	

AMENDMENTS		
No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
  2. All levels are in metres above sea level.
  3. For Site location see Dwg. MBW/0.0.0
  4. For Node details, see Dwg. MBW/6.0.0
  5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- // Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

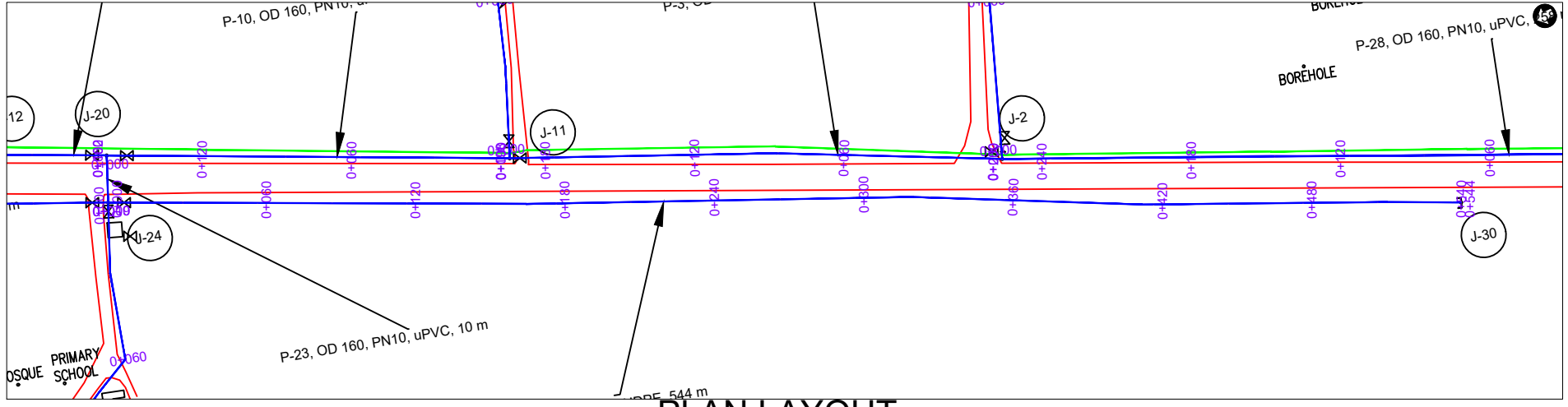
MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

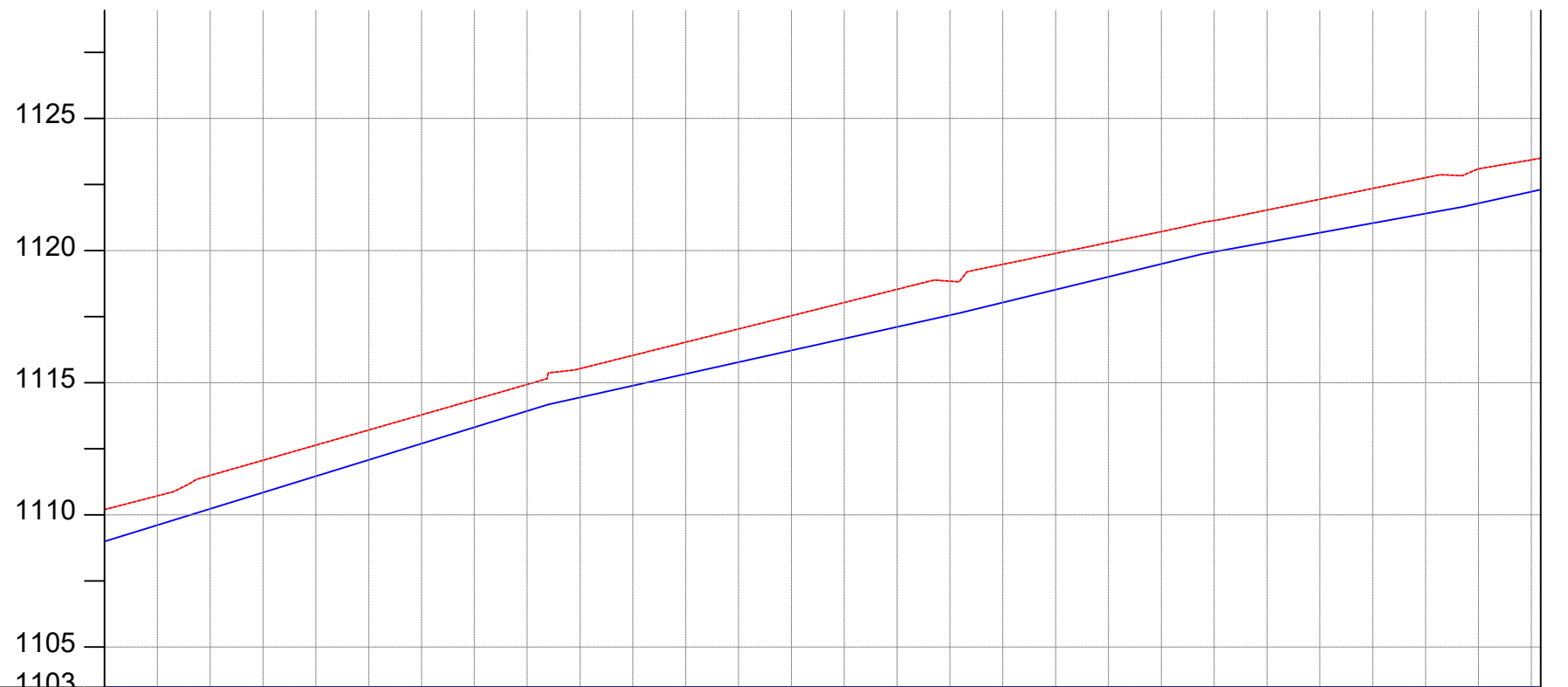
CONSULTANT:

**Drawing Title:**  
KADAMA TOWN  
**DL-32 (CH 0+000.00 - 0+483.82)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-32 (CH 0+000.00 - 0+483.82)	
Sheet No.: 1	Format: A3



**PLAN LAYOUT**



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+200		0+240		0+280		0+320		0+360		0+400		0+440		0+480		0+520	0+544		
GROUND LEVEL(m)	1110.179	1110.715	1111.490	1112.063	1112.636	1113.210	1113.783	1114.357	1114.934	1115.532	1116.033	1116.533	1117.033	1117.533	1118.034	1118.534	1118.841	1119.479	1119.892	1120.305	1120.718	1121.136	1121.531	1121.939	1122.347	1122.755	1123.091	1123.492		
PIPE DETAILS	OD50, PN10, HDPE																													
PIPE INVERT(m)	1109.079	1109.615	1110.390	1110.963	1111.536	1112.110	1112.683	1113.257	1113.834	1114.432	1114.933	1115.433	1115.933	1116.433	1116.934	1117.434	1117.741	1118.379	1118.792	1119.205	1119.618	1120.036	1120.431	1120.839	1121.247	1121.655	1121.991	1122.392		

AMENDMENTS		
No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
  2. All levels are in metres above sea level.
  3. For Site location see Dwg. MB/W/0.0.0
  4. For Node details, see Dwg. MB/W/6.0.0
  5. All valves, hydrants and washout locations are identified by marker post in positions.

**LEGEND**

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO\_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

MINISTRY OF WATER AND ENVIRONMENT

**PROJECT:**  
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

**Drawing Title:**  
KADAMA TOWN  
**DL-33 (CH 0+000.00 - 0+543.56)**

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL-33 (CH 0+000.00 - 0+543.56)	
Sheet No.: 1	Format: A3