

LEGEND

BITALE GRAVITY MAIN PIPE

KIGANZA GRAVITY MAIN PIPE

KIZENGA GRAVITY MAIN PIPE

GRAVITY MAIN PIPES FROM INTAKE

NYAMULOZA GRAVITY MAIN PIPE

ROAD

BRIDGE & CULVERT

GATE VALVE

STORAGE TANK

BREAK PRESSURE TANK

Client: **ENABEL-WASKIRP**
Lake Tanganyika Basin
Water Board Compound
P.O. Box 24
Kigoma

Consultant: **EDGE**
CONSULTING ENGINEERS
Edge Engineering And Consulting Ltd
Plot 412 Block C1 Ujuzi Street
Mikocheni B Msiki Road Near
P.O. Box 2452
Tel: +255 763 499 997 / +255 783 910 014
E-mail: edgecltd@gmail.com, info@edgeec.co.tz

Project: **CONSULTANCY SERVICES TO CONDUCT FEASIBILITY STUDY, DEVELOP ENGINEERING DESIGNS, TENDER DOCUMENTS FOR MKONGORO 1 GROUP GRAVITY-FED PIPED WATER SUPPLY SCHEME**

Designed	A. Juma	Drawn	F. Maliva	Drawing Title	GENERAL MKONGORO 01 GRAVITY MAIN LAYOUT	
Checked	C. Werema	Approved	L. Kalenga	Project No.		
Scale	1:1000	Date	SEPTEMBER 2019	Drawing No.		
					Sheet No.	00

PROPOSED NEW INTAKE
 TREATMENT PLANT

80250

9484500 N

OD110mm HDPE
 601.21m

Client:



Project:

CONSULTANCY SERVICES TO CONDUCT FEASIBILITY
 STUDY, DEVELOP ENGINEERING DESIGNS, TENDER
 DOCUMENTS FOR MKONGORO 1 GROUP
 GRAVITY-FED PIPED WATER SUPPLY SCHEME

Consultant:



Edge Engineering And Consulting Ltd
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Notes:

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Designed by:	Date:	Revision	Description	Date
A. Juma	Sept 2019	0		
F. Maliwa	Sept 2019			
C. Werema	Sept 2019			
L. Kalenga	Sept 2019			
Scale:	VS=1:100			

Drawing Title:

GENERAL LAYOUT FOR
 MKONGORO 1 GRAVITY MAIN

Drawing NO: ENBL/001/01

OD 110mm HDPE PN10
601.21m

OLD INTAKE

XX

Client:



Project:

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Notes:

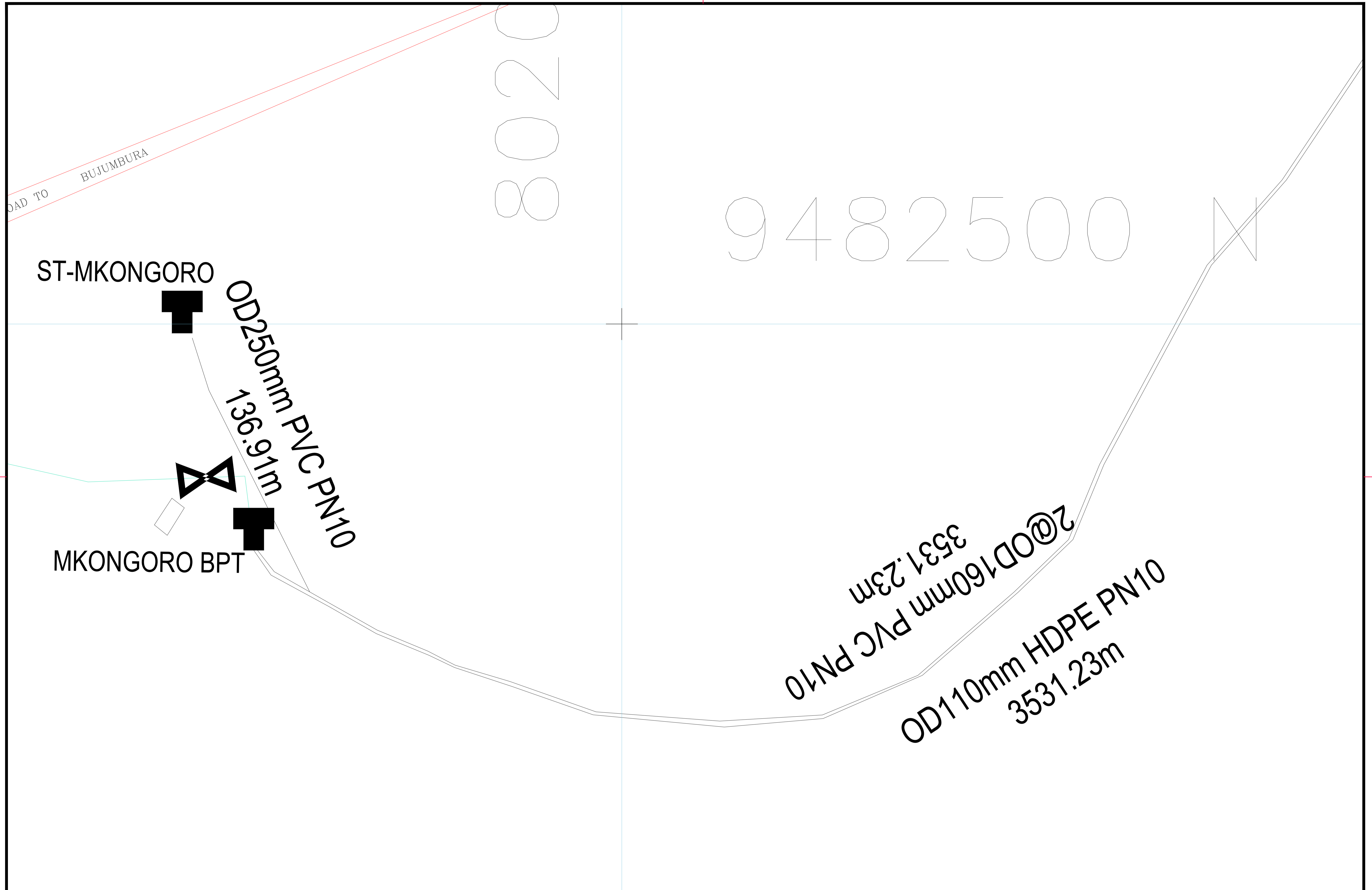
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A. Juma	Sept 2019	0		
F. Mailwa	Sept 2019			
C. Werema	Sept 2019			
L. Kalenga	Sept 2019			
Scale:	VS=1:100			

Drawing Title:

GENERAL LAYOUT FOR
MKONGORO 1 GRAVITY MAIN

Drawing NO: ENBL/001/02



Client: **WASKIRP Enabel**
 ENABEL-WASKIRP
 Lake Tanganyika Basin Water Board Compound
 P.O. Box 24
 Kigoma

Project: CONSULTANCY SERVICES TO CONDUCT FEASIBILITY STUDY, DEVELOP ENGINEERING DESIGNS, TENDER DOCUMENTS FOR MKONGORO 1 GROUP GRAVITY-FED PIPED WATER SUPPLY SCHEME

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A. Juma	Sept 2019	0		
F. Maliwa	Sept 2019			
C. Werema	Sept 2019			
L. Kalenga	Sept 2019			
Scale:	VS=1:100			

Drawing Title: **GENERAL LAYOUT FOR MKONGORO 1 GRAVITY MAIN**
 Drawing NO: **ENBL/001/03**

OD160mm PVC PN10
4951.67m

OD160mm PVC PN10
4951.67m

MKOl

Client:

WASKIRP Enabel
ENABEL-WASKIRP
Lake Tanganyika Basin Water Board Compound
P.O. Box 24
Kigoma

Project:

CONSULTANCY SERVICES TO CONDUCT FEASIBILITY
STUDY, DEVELOP ENGINEERING DESIGNS, TENDER
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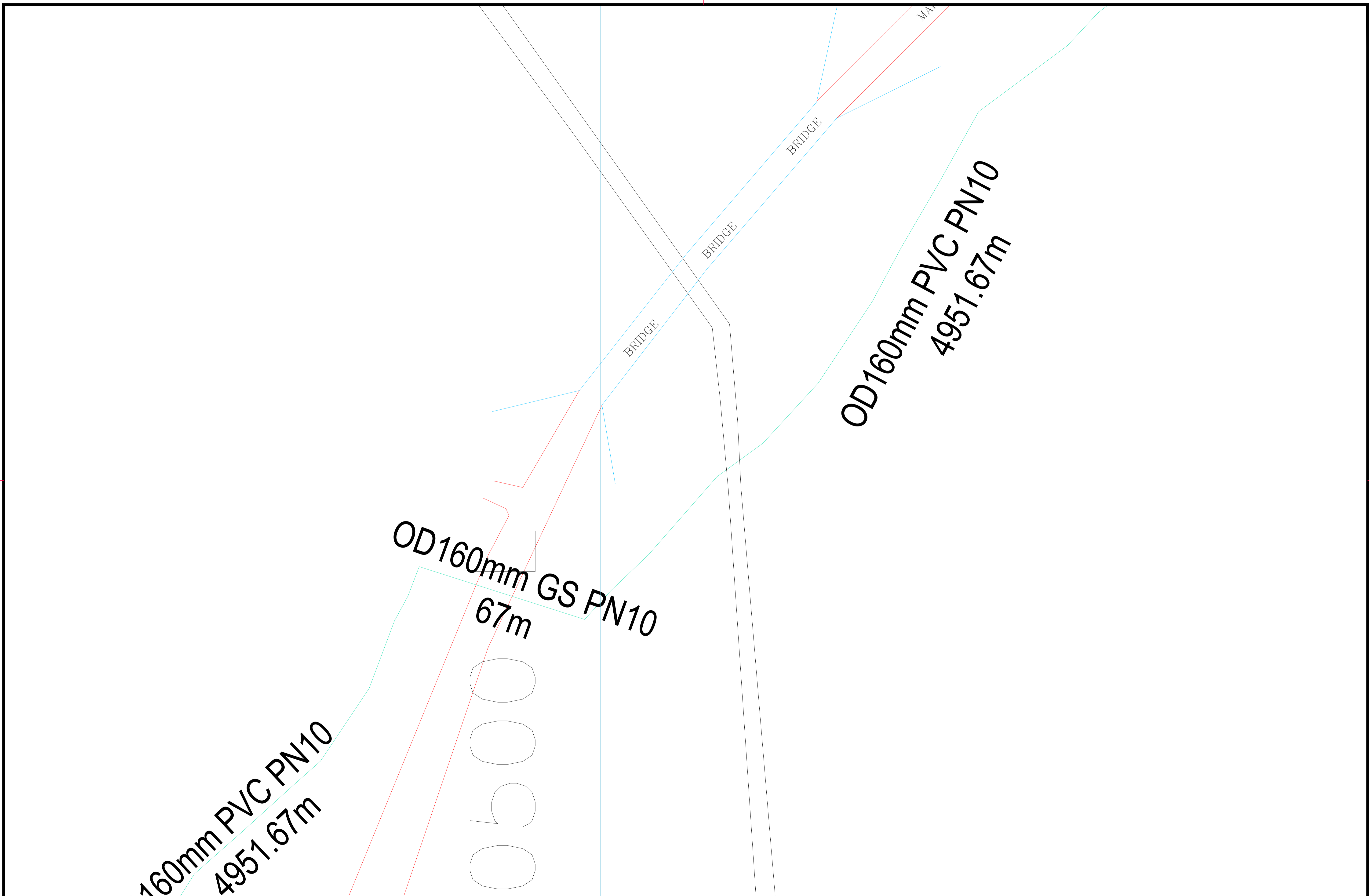
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A. Juma	Sept 2019	0		
F. Maliwa	Sept 2019			
C. Werema	Sept 2019			
L. Kalenga	Sept 2019			
Scale:	VS=1:100			

Drawing Title:

GENERAL LAYOUT FOR
MKONGORO 1 GRAVITY MAIN

Drawing NO: ENBL/001/04



Client: **WASKIRP Enabel**
 ENABEL-WASKIRP
 Lake Tanganyika Basin Water Board Compound
 P.O. Box 24
 Kigoma

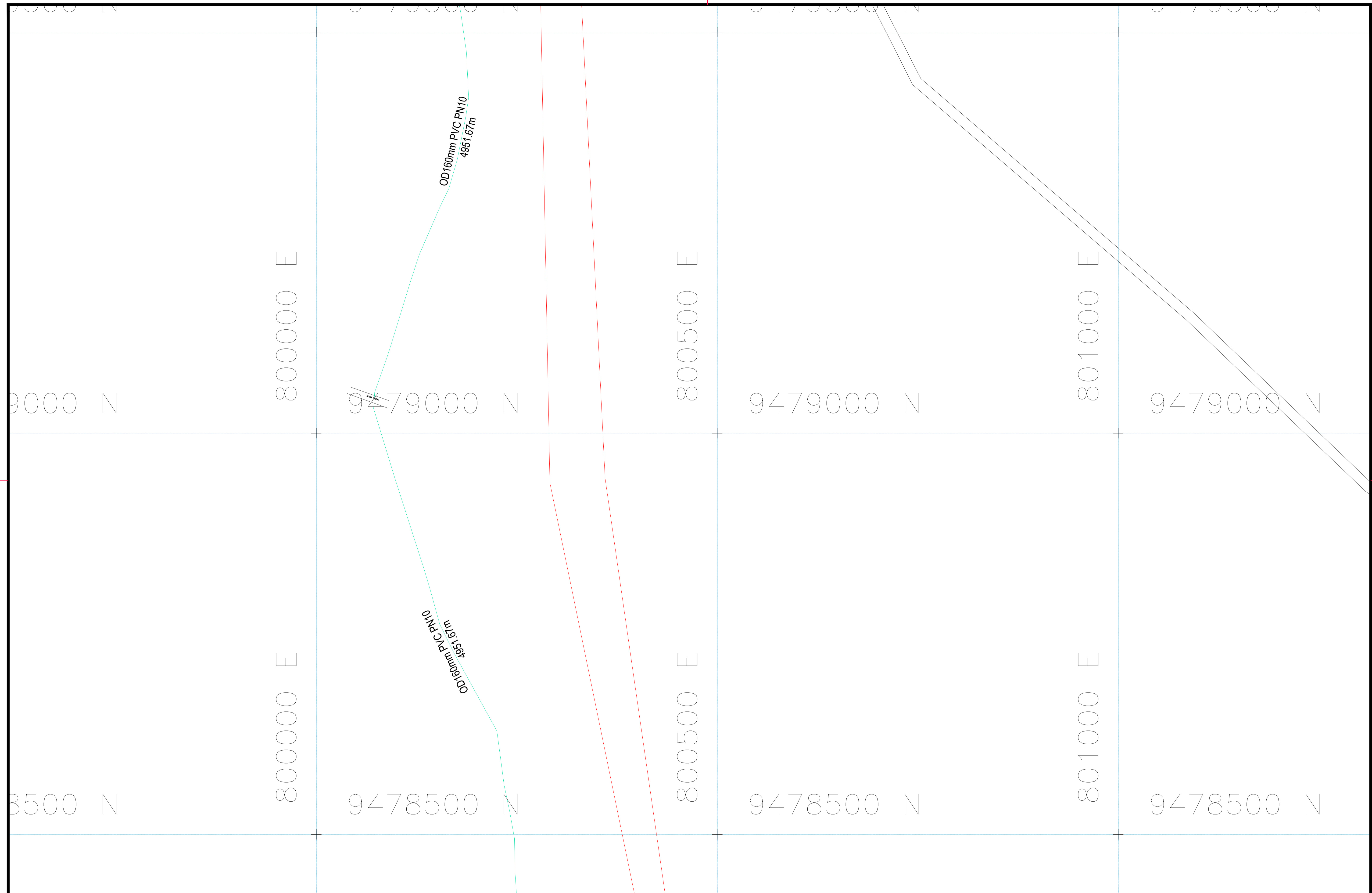
Project: CONSULTANCY SERVICES TO CONDUCT FEASIBILITY STUDY, DEVELOP ENGINEERING DESIGNS, TENDER DOCUMENTS FOR MKONGORO 1 GROUP GRAVITY-FED PIPED WATER SUPPLY SCHEME

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Designed by: A.Juma	Date: Sept 2019	Revision	Description	Date
Drawn by: F.Maliwa	Date: Sept 2019	0		
Checked by: C.Werema	Date: Sept 2019			
Approved by: L.Kalenga	Date: Sept 2019			
Scale:	VS=1:100			

Drawing Title: **GENERAL LAYOUT FOR MKONGORO 1 GRAVITY MAIN**
 Drawing NO: **ENBL/001/05**



Client:

WASKIRP Enabel
 ENABEL-WASKIRP
 Lake Tanganyika Basin Water Board Compound
 P.O. Box 24
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Project:

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 STUDY, DEVELOP ENGINEERING DESIGNS, TENDER
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 GRAVITY-FED PIPED WATER SUPPLY SCHEME

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A. Juma	Sept 2019	0		
F. Maliwa	Sept 2019			
C. Werema	Sept 2019			
L. Kalenga	Sept 2019			
Scale:	VS=1:100			

Drawing Title:

**GENERAL LAYOUT FOR
 MKONGORO 1 GRAVITY MAIN**

Drawing NO: **ENBL/001/06**



Client:

WASKIRP Enabel
 ENABEL-WASKIRP
 Lake Tanganyika Basin Water Board Compound
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Project:

CONSULTANCY SERVICES TO CONDUCT FEASIBILITY STUDY, DEVELOP ENGINEERING DESIGNS, TENDER DOCUMENTS FOR MKONGORO 1 GROUP GRAVITY-FED PIPED WATER SUPPLY SCHEME

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Notes:

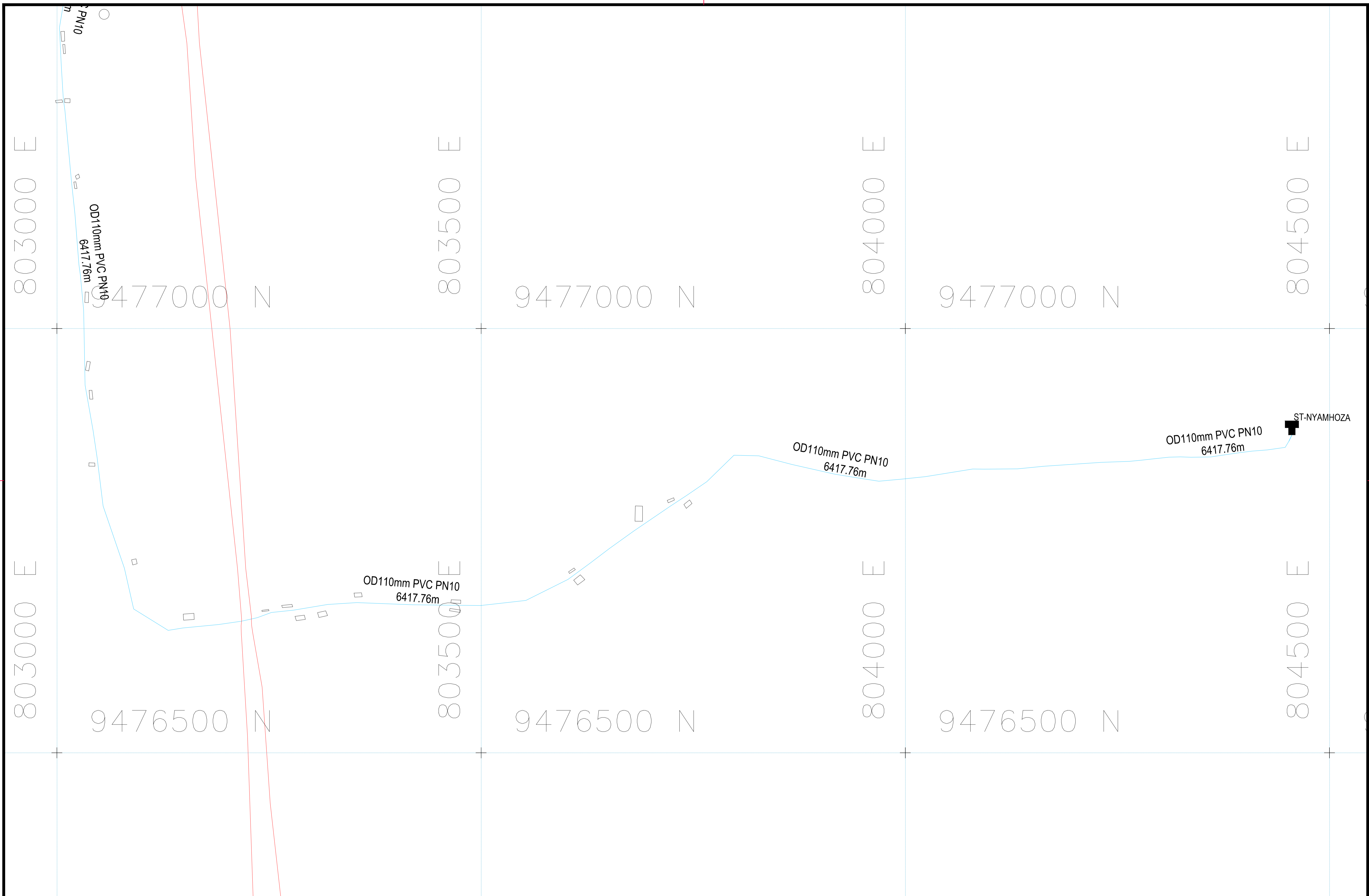
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A.Juma	Sept 2019	0		
F.Maiwa	Sept 2019			
C.Werema	Sept 2019			
L.Kalenga	Sept 2019			
Scale:	VS=1:100			

Drawing Title:

GENERAL LAYOUT FOR MKONGORO 1 GRAVITY MAIN

Drawing NO: **ENBL/001/07**



Client: **WASKIRP Enabel**
 ENABEL-WASKIRP
 Lake Tanganyika Basin Water Board Compound
 P.O. Box 24
 Kigoma

Project: CONSULTANCY SERVICES TO CONDUCT FEASIBILITY STUDY, DEVELOP ENGINEERING DESIGNS, TENDER DOCUMENTS FOR MKONGORO 1 GROUP GRAVITY-FED PIPED WATER SUPPLY SCHEME

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A. Juma	Sept 2019	0		
F. Maiwa	Sept 2019			
C. Werema	Sept 2019			
L. Kalenga	Sept 2019			
Scale:	VS=1:100			

Drawing Title: **GENERAL LAYOUT FOR MKONGORO 1 GRAVITY MAIN**
 Drawing NO: **ENBL/001/08**

BPT-MBURANYA

OD160mm PVC PN10
2084.77m

OD110mm PVC PN10
1054.78m

OD160mm PVC PN10
2084.77m

OD110mm PVC PN10
1054.78m

OD160mm PVC PN10
2084.77m

800000 E

9476500 N

800500 F

Client:



Project:

CONSULTANCY SERVICES TO CONDUCT FEASIBILITY STUDY, DEVELOP ENGINEERING DESIGNS, TENDER DOCUMENTS FOR MKONGORO 1 GROUP GRAVITY-FED PIPED WATER SUPPLY SCHEME

Consultant:



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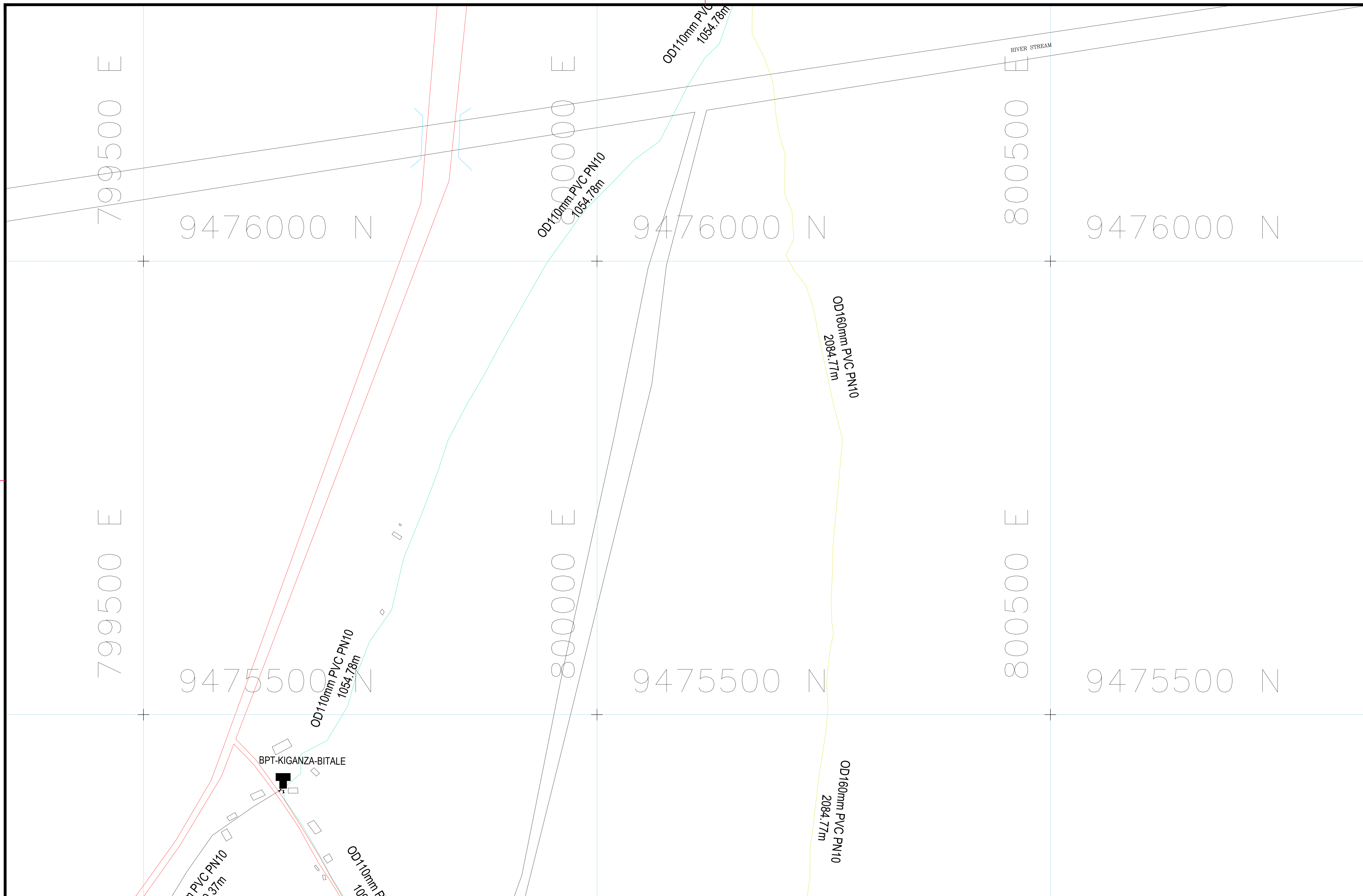
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A.Juma	Sept 2019	0		
F.Maiwa	Sept 2019			
C.Werema	Sept 2019			
L.Kalenga	Sept 2019			
Scale:	VS=1:100			

Drawing Title:

GENERAL LAYOUT FOR MKONGORO 1 GRAVITY MAIN

Drawing NO: ENBL/001/09



Client: **WASKIRP Enabel**
 ENABEL-WASKIRP
 Lake Tanganyika Basin Water Board Compound
 P.O.Box 24
 Kigoma

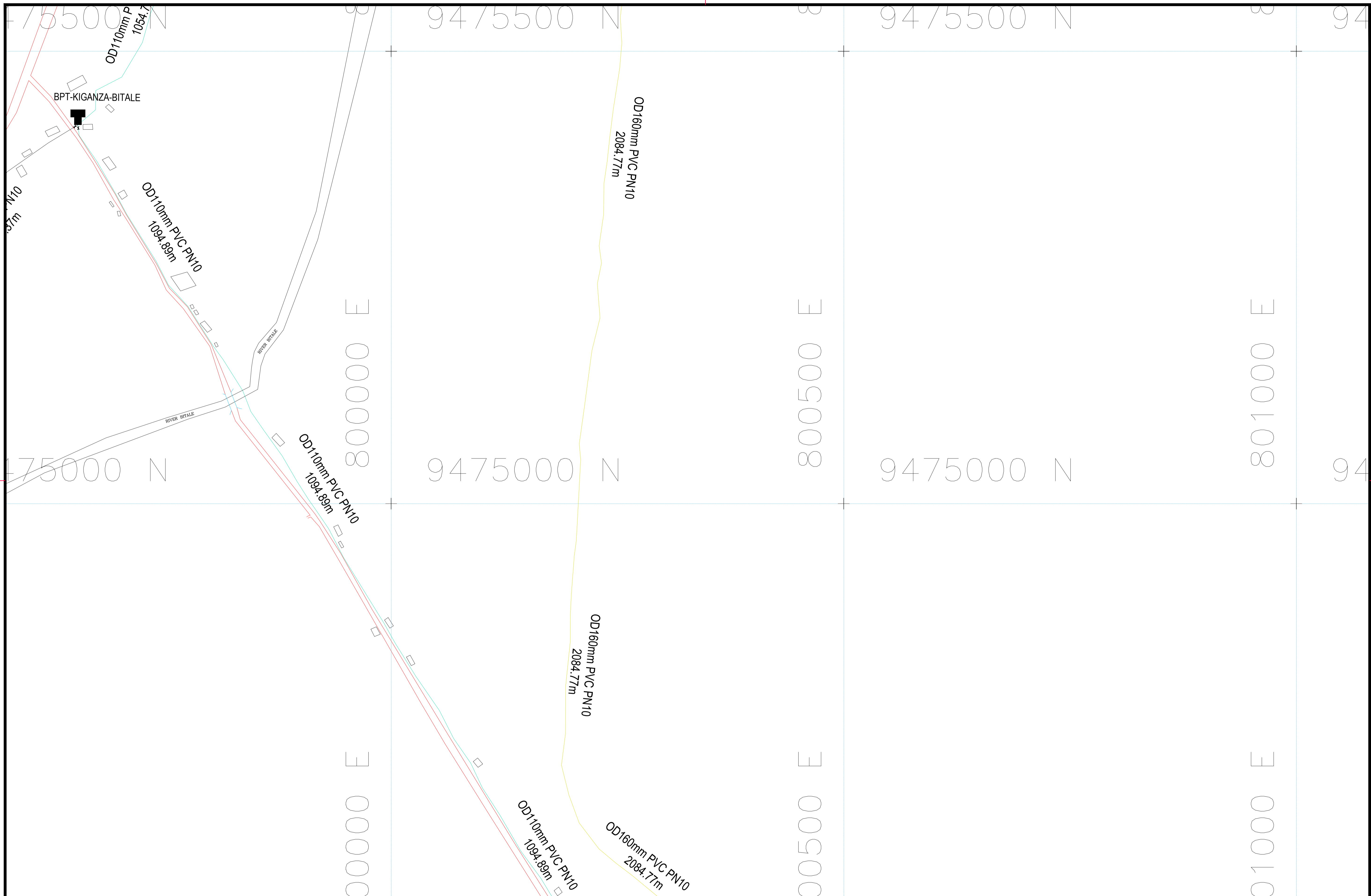
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Designed by: A.Juma	Date: Sept 2019	Revision	Description	Date
Drawn by: F.Maliwa	Date: Sept 2019	0		
Checked by: C.Werema	Date: Sept 2019			
Approved by: L.Kalenga	Date: Sept 2019			
Scale:	VS=1:100			

Drawing Title: **GENERAL LAYOUT FOR MKONGORO 1 GRAVITY MAIN**
 Drawing NO: **ENBL/001/10**



Client:

WASKIRP Enabel
 ENABEL-WASKIRP
 Lake Tanganyika Basin Water Board Compound
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Project:

CONSULTANCY SERVICES TO CONDUCT FEASIBILITY STUDY, DEVELOP ENGINEERING DESIGNS, TENDER DOCUMENTS FOR MKONGORO 1 GROUP GRAVITY-FED PIPED WATER SUPPLY SCHEME

Consultant:

EDGE
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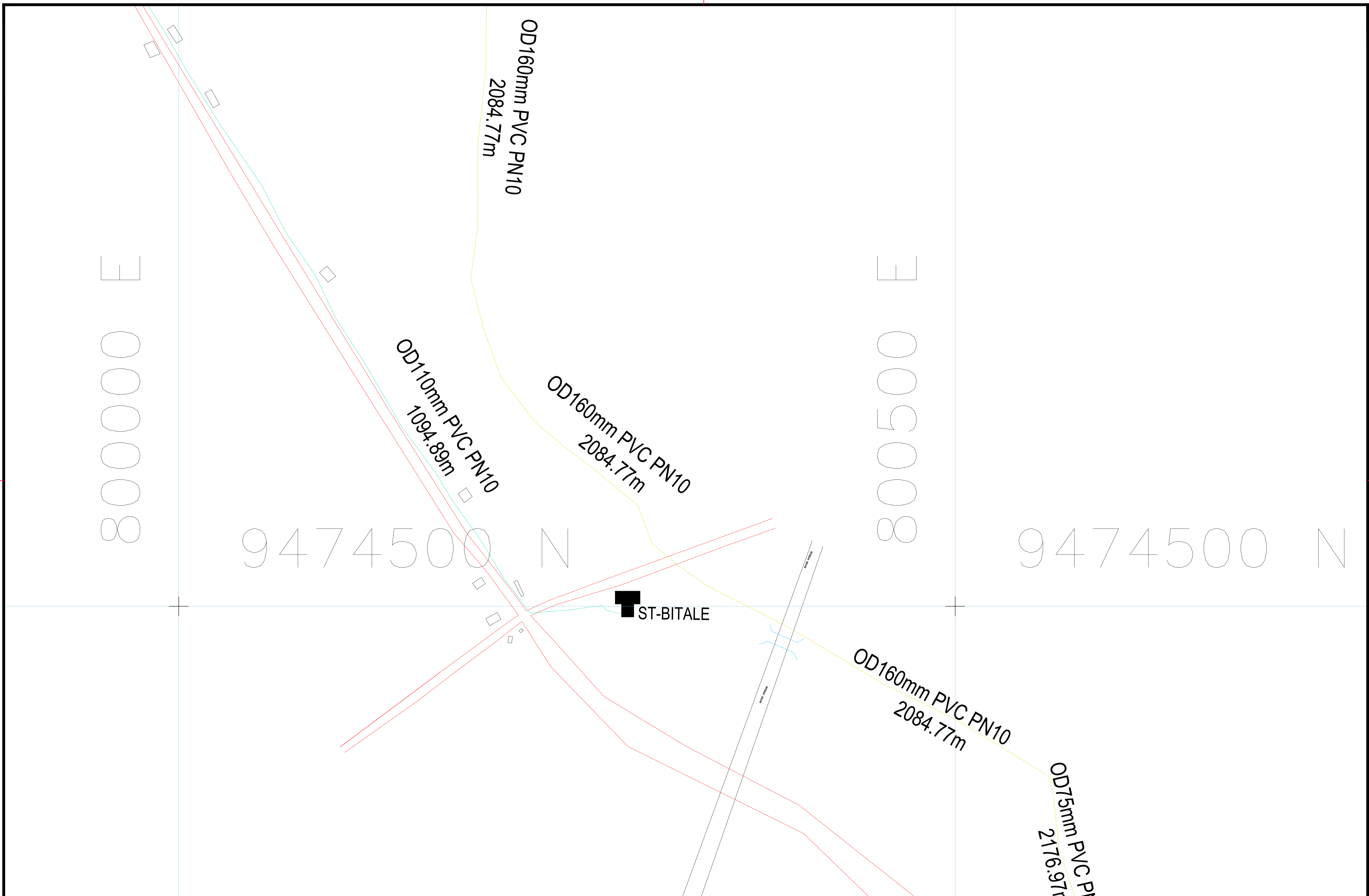
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Designed by:	Date:	Revision	Description	Date
A.Juma	Sept 2019	0		
F.Maliwa	Sept 2019			
C.Werema	Sept 2019			
L.Kalenga	Sept 2019			
Scale:	VS=1:100			

Drawing Title:

GENERAL LAYOUT FOR MKONGORO 1 GRAVITY MAIN

Drawing NO: **ENBL/001/11**



Client: **WASKIRP Enabel**
 ENABEL-WASKIRP
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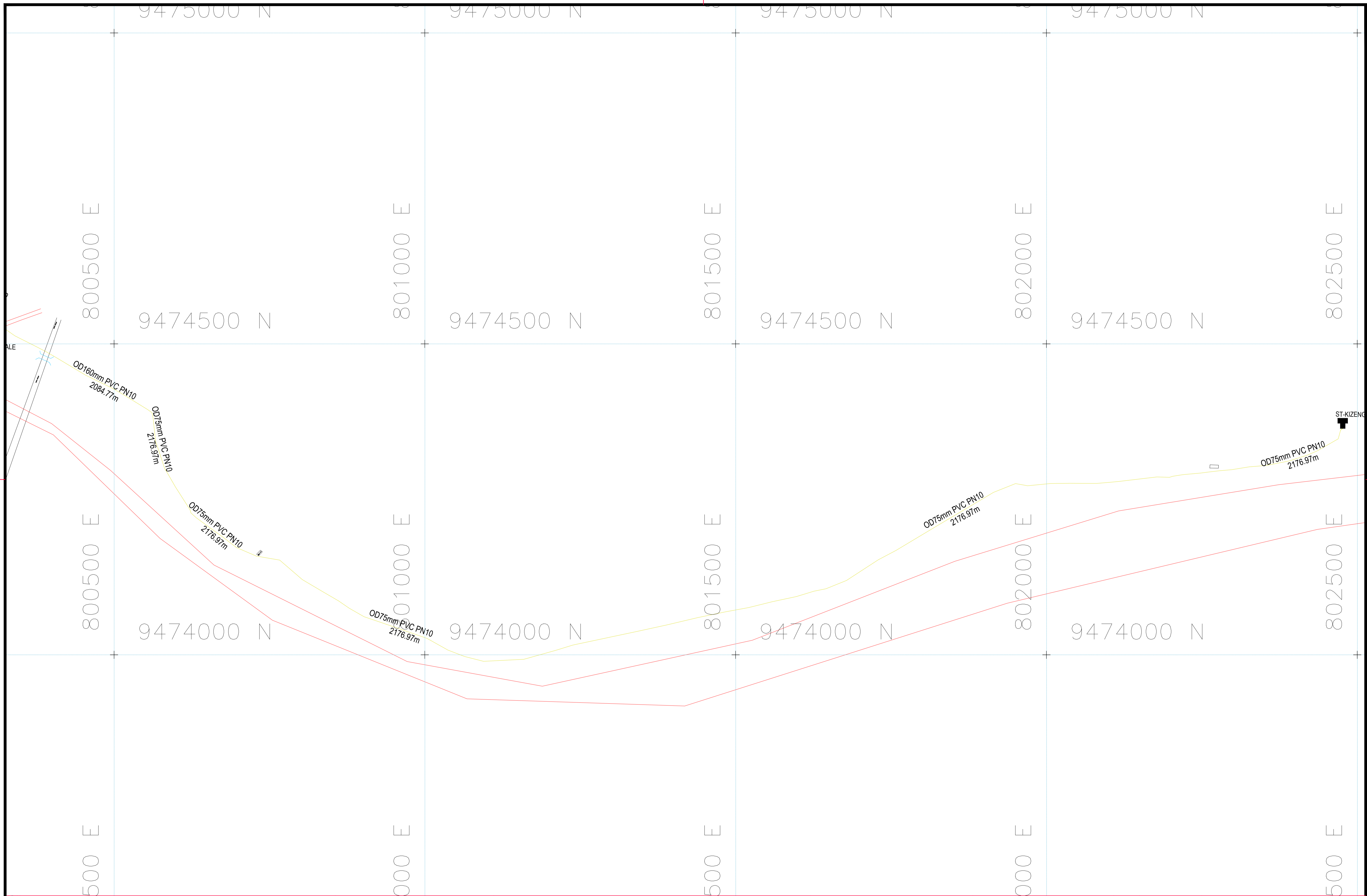
Project: CONSULTANCY SERVICES TO CONDUCT FEASIBILITY STUDY, DEVELOP ENGINEERING DESIGNS, TENDER DOCUMENTS FOR MKONGORO 1 GROUP GRAVITY-FED PIPED WATER SUPPLY SCHEME

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A.Juma	Sept 2019	0		
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C.Werema	Sept 2019			
L.Kalenga	Sept 2019			
Scale:	VS=1:100			

Drawing Title: **GENERAL LAYOUT FOR MKONGORO 1 GRAVITY MAIN**
 Drawing NO: **ENBL/001/12**



Client: **WASKIRP Enabel**
 ENABEL-WASKIRP
 Lake Tanganyika Basin Water Board Compound
 P.O. Box 24
 Kigoma

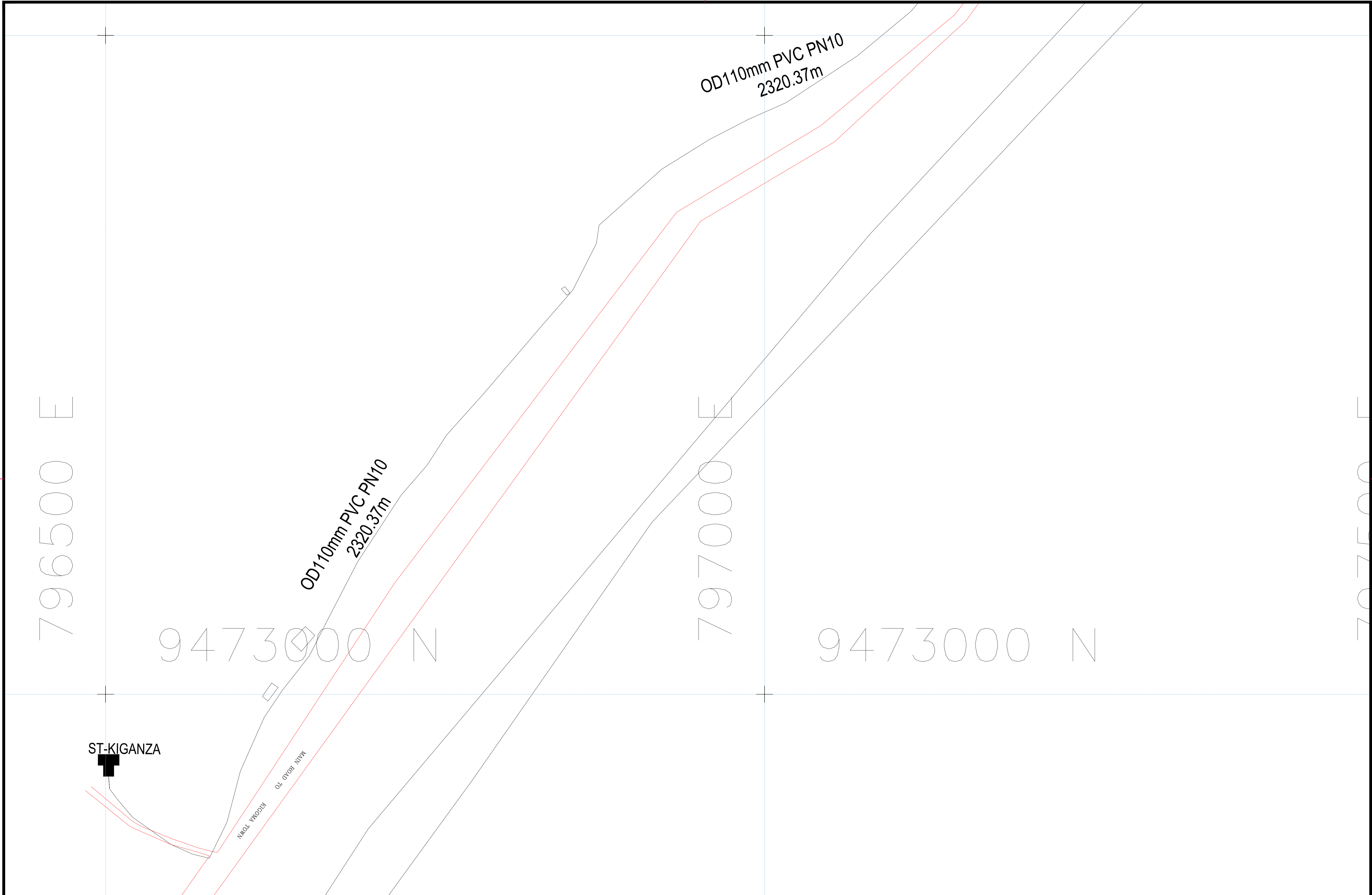
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Drawn by: F.Maliwa	Date: Sept 2019	0		
Checked by: C.Werema	Date: Sept 2019			
Approved by: L.Kalenga	Date: Sept 2019			
Scale:	VS=1:100			

Drawing Title: **GENERAL LAYOUT FOR MKONGORO 1 GRAVITY MAIN**
 Drawing NO: **ENBL/001/13**



Client:

WASKIRP Enabel
 ENABEL-WASKIRP
 Lake Tanganyika Basin Water Board Compound
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Project:

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 STUDY, DEVELOP ENGINEERING DESIGNS, TENDER
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L. Kalenga	Sept 2019			
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Drawing Title:

**GENERAL LAYOUT FOR
 MKONGORO 1 GRAVITY MAIN**

Drawing NO: **ENBL/001/14**



Client:

WASKIRP Enabel
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CONSULTANCY SERVICES TO CONDUCT FEASIBILITY
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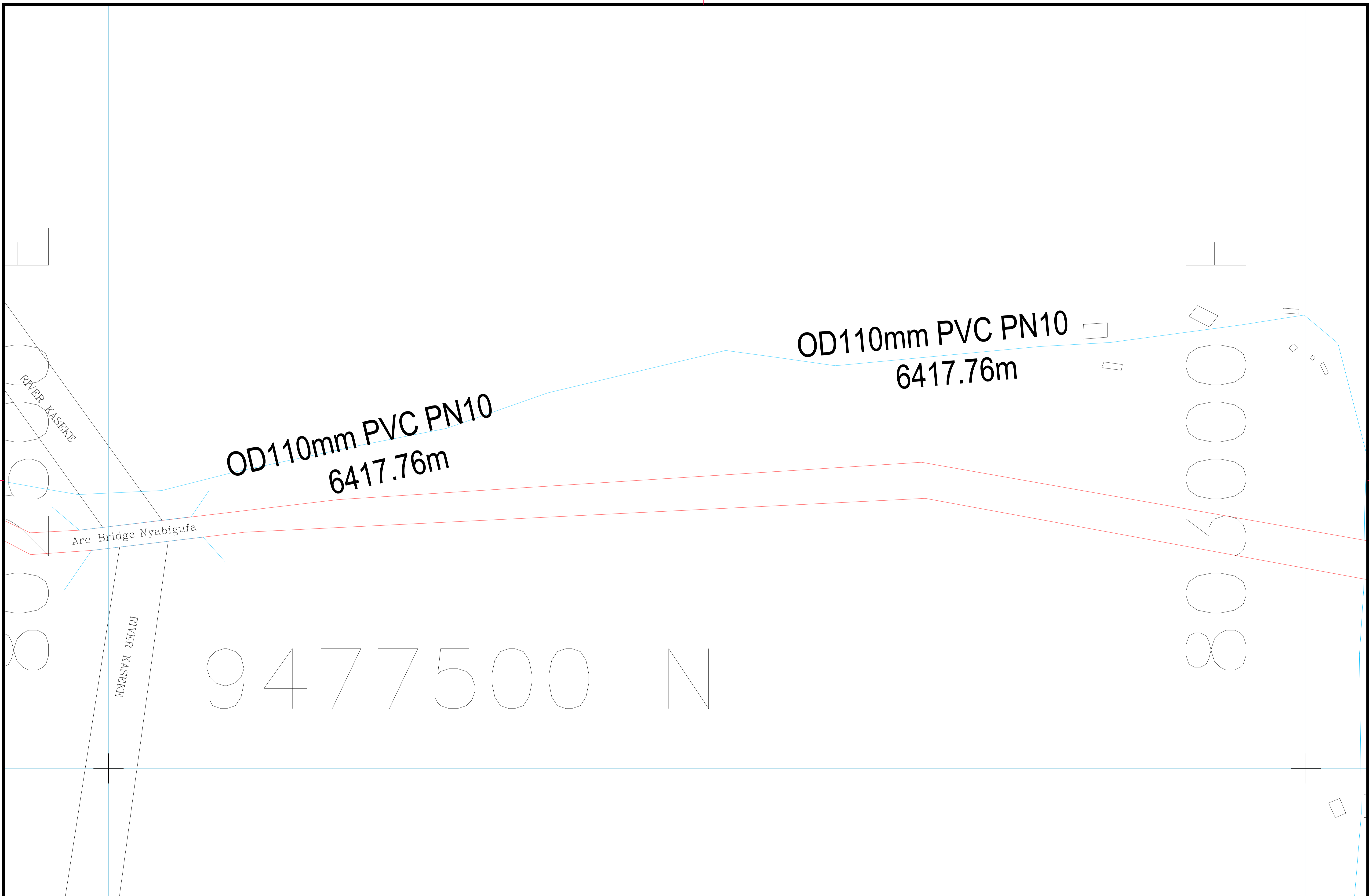
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F. Maiwa	Sept 2019			
C. Werema	Sept 2019			
L. Kalenga	Sept 2019			
Scale:	VS=1:100			

Drawing Title:

**GENERAL LAYOUT FOR
 MKONGORO 1 GRAVITY MAIN**

Drawing NO: **ENBL/001/15**



Client: **WASKIRP Enabel**
 ENABEL-WASKIRP
 Lake Tanganyika Basin Water Board Compound
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Project: CONSULTANCY SERVICES TO CONDUCT FEASIBILITY STUDY, DEVELOP ENGINEERING DESIGNS, TENDER DOCUMENTS FOR MKONGORO 1 GROUP GRAVITY-FED PIPED WATER SUPPLY SCHEME

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F.Maliwa	Sept 2019			
C.Werema	Sept 2019			
L.Kalenga	Sept 2019			
Scale:	VS=1:100			

Drawing Title: **GENERAL LAYOUT FOR MKONGORO 1 GRAVITY MAIN**
 Drawing NO: **ENBL/001/16**

477000 N

9477000 N

476500 N

9476500 N

804000 E

804500 E

OD110mm PVC PN10
6417.76m

OD110mm PVC PN10
6417.76m

ST-NYAM

Client:



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C. Werema	Sept 2019			
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Scale:	VS=1:100			

Drawing Title:

GENERAL LAYOUT FOR
MKONGORO 1 GRAVITY MAIN

Drawing NO: ENBL/001/17



Client:

WASKIRP Enabel
 ENABEL-WASKIRP
 Lake Tanganyika Basin Water Board Compound
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Project:

CONSULTANCY SERVICES TO CONDUCT FEASIBILITY STUDY, DEVELOP ENGINEERING DESIGNS, TENDER DOCUMENTS FOR MKONGORO 1 GROUP GRAVITY-FED PIPED WATER SUPPLY SCHEME

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Checked by: C.Werema	Date: Sept 2019			
Approved by: L.Kalenga	Date: Sept 2019			
Scale:	VS=1:100			

Drawing Title:

GENERAL LAYOUT FOR MKONGORO 1 GRAVITY MAIN

Drawing NO: **ENBL/001/18**



Client:

WASKIRP Enabel
 ENABEL-WASKIRP
 Lake Tanganyika Basin Water Board Compound
 P.O.Box 24
 Kigoma

Project:

CONSULTANCY SERVICES TO CONDUCT FEASIBILITY STUDY, DEVELOP ENGINEERING DESIGNS, TENDER DOCUMENTS FOR MKONGORO 1 GROUP GRAVITY-FED PIPED WATER SUPPLY SCHEME

Consultant:

EDGE
 CONSULTING ENGINEERS

Edge Engineering And Consulting Ltd
 Plot 412 Block D, Ushindi Street
 Mikochei B, Mskiti Road Near
 Mikochei Secondary School-Dar es Salaam
 P.O.Box 24520
 Tel: +255 763 499 997/+255 783 910 014
 E-mail: edgeecld@gmail.com, info@edgeec.co.tz

Notes:

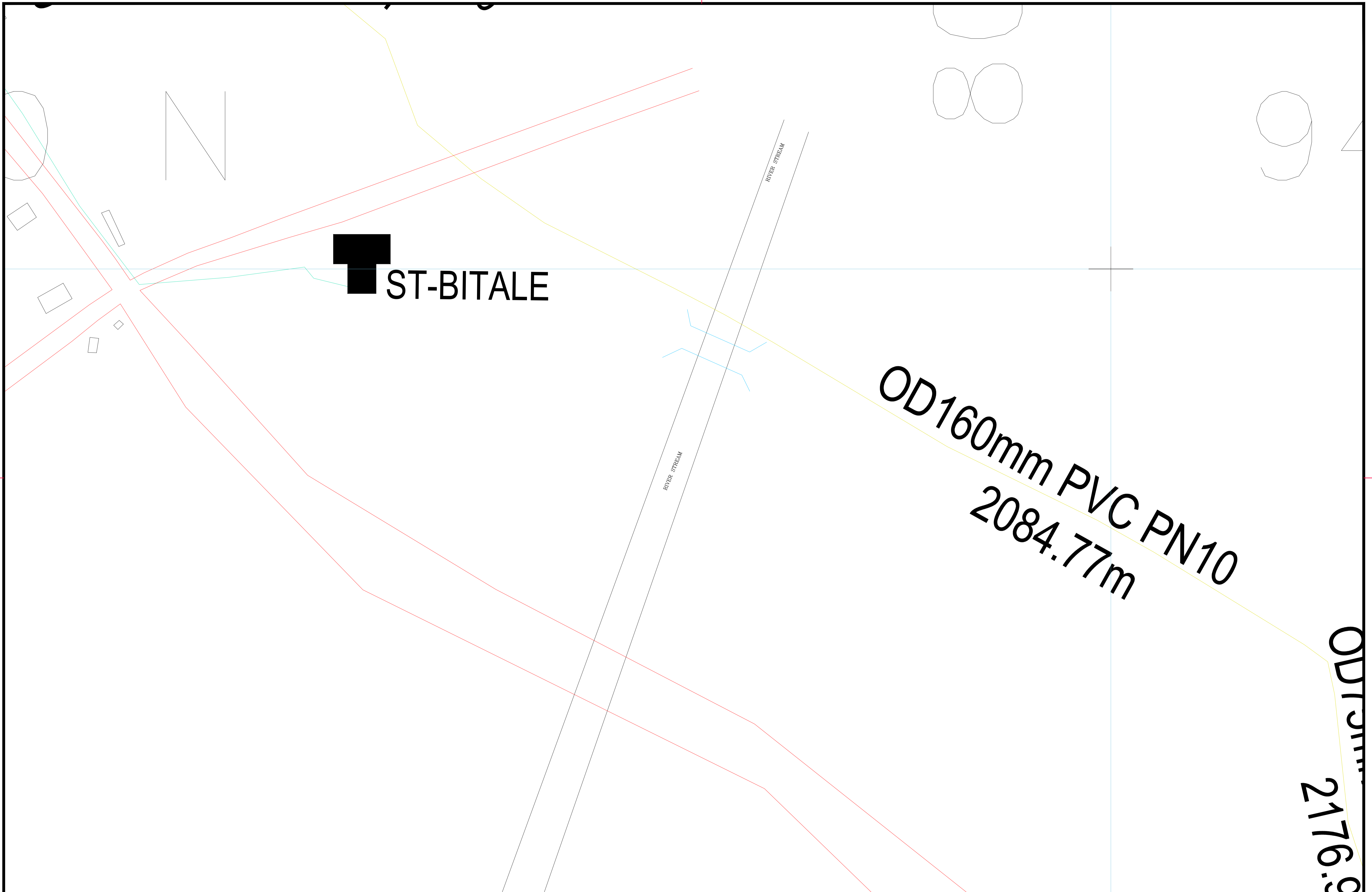
- All dimensions are in meters (m) unless otherwise stated on the drawing
- All relevant dimensions and levels to be checked on site, and figured dimensions to be taken before scaled dimensions

Designed by:	Date:	Revision	Description	Date
A.Juma	Sept 2019	0		
Drawn by:	Date:			
F.Maliwa	Sept 2019			
Checked by:	Date:			
C.Werema	Sept 2019			
Approved by:	Date:			
L.Kalenga	Sept 2019			
Scale:	VS=1:100			

Drawing Title:

GENERAL LAYOUT FOR MKONGORO 1 GRAVITY MAIN

Drawing NO: **ENBL/001/19**



Client:



Project:

CONSULTANCY SERVICES TO CONDUCT FEASIBILITY STUDY, DEVELOP ENGINEERING DESIGNS, TENDER DOCUMENTS FOR MKONGORO 1 GROUP GRAVITY-FED PIPED WATER SUPPLY SCHEME

Consultant:



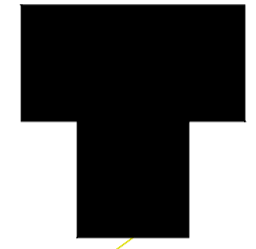
Edge Engineering And Consulting Ltd
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E-mail: edgeec@edgeec.co.tz

Notes:

- All dimensions are in meters (m) unless otherwise stated on the drawing
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Designed by: A.Juma	Date: Sept 2019	Revision	Description	Date	Drawing Title:
Drawn by: F.Maliwa	Date: Sept 2019	0			GENERAL LAYOUT FOR MKONGORO 1 GRAVITY MAIN
Checked by: C.Werema	Date: Sept 2019				Drawing NO: ENBL/001/20
Approved by: L.Kalenga	Date: Sept 2019				
Scale:	VS=1:100				

ST-KIZENGA



OD75mm PVC PN10
2176.97m

Client:



Project:

CONSULTANCY SERVICES TO CONDUCT FEASIBILITY STUDY, DEVELOP ENGINEERING DESIGNS, TENDER DOCUMENTS FOR MKONGORO 1 GROUP GRAVITY-FED PIPED WATER SUPPLY SCHEME

Consultant:

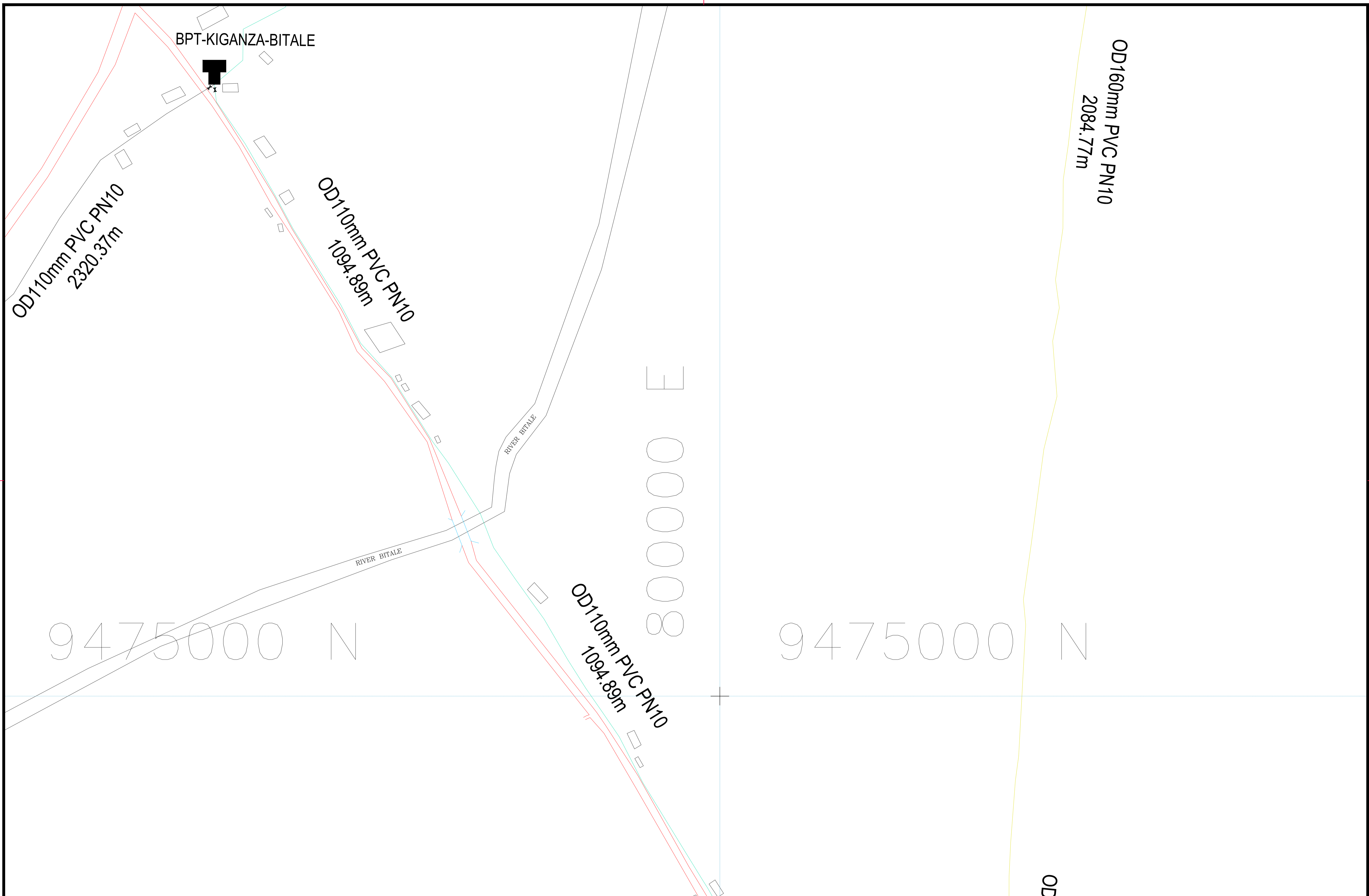


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E-mail: edgeecld@gmail.com, info@edgeec.co.tz

Notes:

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- 2. All relevant dimensions and levels to be checked on site, and figured dimensions to be taken before scaled dimensions

Designed by:	Date:	Revision	Description	Date	Drawing Title:
Drawn by: F.Maliwa	Sept 2019	0			GENERAL LAYOUT FOR MKONGORO 1 GRAVITY MAIN
Checked by: C.Werema	Sept 2019				
Approved by: L.Kalenga	Sept 2019				Drawing NO: ENBL/001/21
Scale:	VS=1:100				



Client:

WASKIRP Enabel
 ENABEL-WASKIRP
 Lake Tanganyika Basin Water Board Compound
 P.O. Box 24
 Kigoma

Project:

CONSULTANCY SERVICES TO CONDUCT FEASIBILITY
 STUDY, DEVELOP ENGINEERING DESIGNS, TENDER
 DOCUMENTS FOR MKONGORO 1 GROUP
 GRAVITY-FED PIPED WATER SUPPLY SCHEME

Consultant:

EDGE
 CONSULTING ENGINEERS

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Notes:

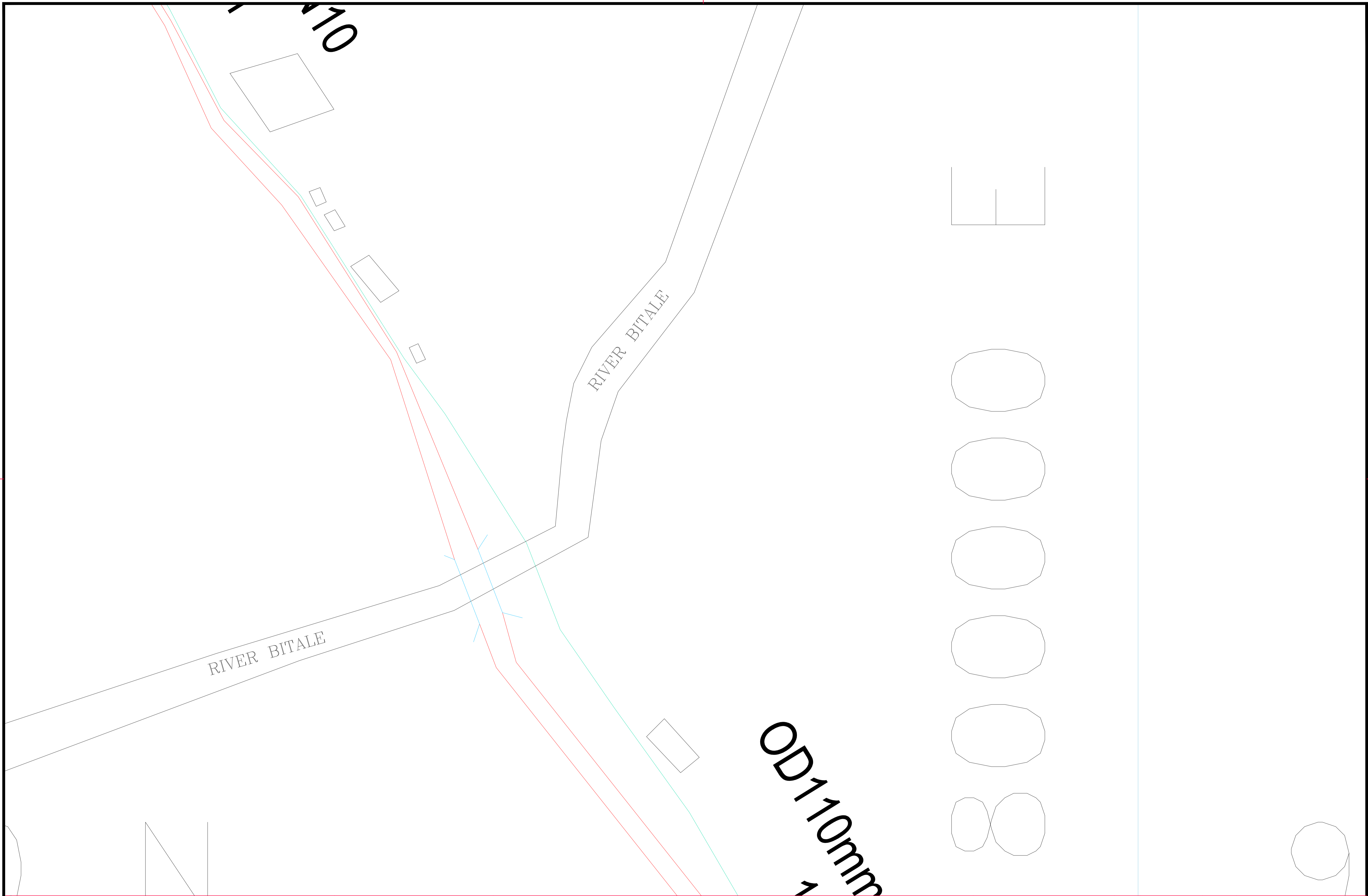
- All dimensions are in meters (m) unless otherwise stated on the drawing
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Designed by:	Date:	Revision	Description	Date
A. Juma	Sept 2019	0		
F. Maliwa	Sept 2019			
C. Werema	Sept 2019			
L. Kalenga	Sept 2019			
Scale:	VS=1:100			

Drawing Title:

**GENERAL LAYOUT FOR
 MKONGORO 1 GRAVITY MAIN**

Drawing NO: **ENBL/001/22**



Client:



Project:

CONSULTANCY SERVICES TO CONDUCT FEASIBILITY STUDY, DEVELOP ENGINEERING DESIGNS, TENDER DOCUMENTS FOR MKONGORO 1 GROUP GRAVITY-FED PIPED WATER SUPPLY SCHEME

Consultant:



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Notes:

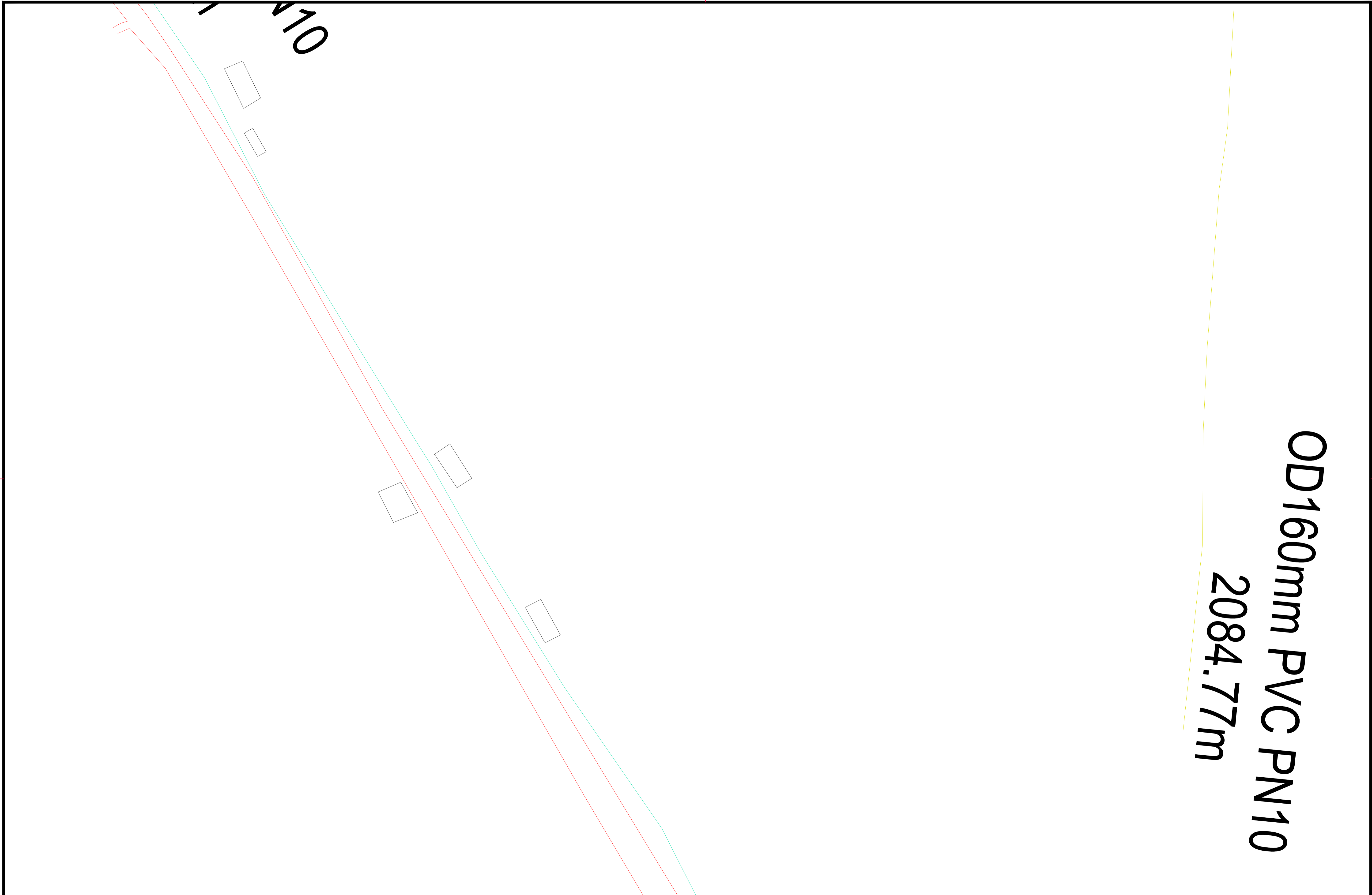
- All dimensions are in meters (m) unless otherwise stated on the drawing
- All relevant dimensions and levels to be checked on site, and figured dimensions to be taken before scaled dimensions

Designed by:	Date:	Revision	Description	Date
A.Juma	Sept 2019	0		
Drawn by:	Date:			
F.Maliwa	Sept 2019			
Checked by:	Date:			
C.Werema	Sept 2019			
Approved by:	Date:			
L.Kalenga	Sept 2019			
Scale:	VS=1:100			

Drawing Title:

GENERAL LAYOUT FOR MKONGORO 1 GRAVITY MAIN

Drawing NO: ENBL/001/23



OD160mm PVC PN10
2084.77m

Client:

WASKIRP Enabel
 ENABEL-WASKIRP
 Lake Tanganyika Basin Water Board Compound
 P.O. Box 24
 Kigoma

Project:

CONSULTANCY SERVICES TO CONDUCT FEASIBILITY
 STUDY, DEVELOP ENGINEERING DESIGNS, TENDER
 DOCUMENTS FOR MKONGORO 1 GROUP
 GRAVITY-FED PIPED WATER SUPPLY SCHEME

Consultant:

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Notes:

- All dimensions are in meters (m) unless otherwise stated on the drawing
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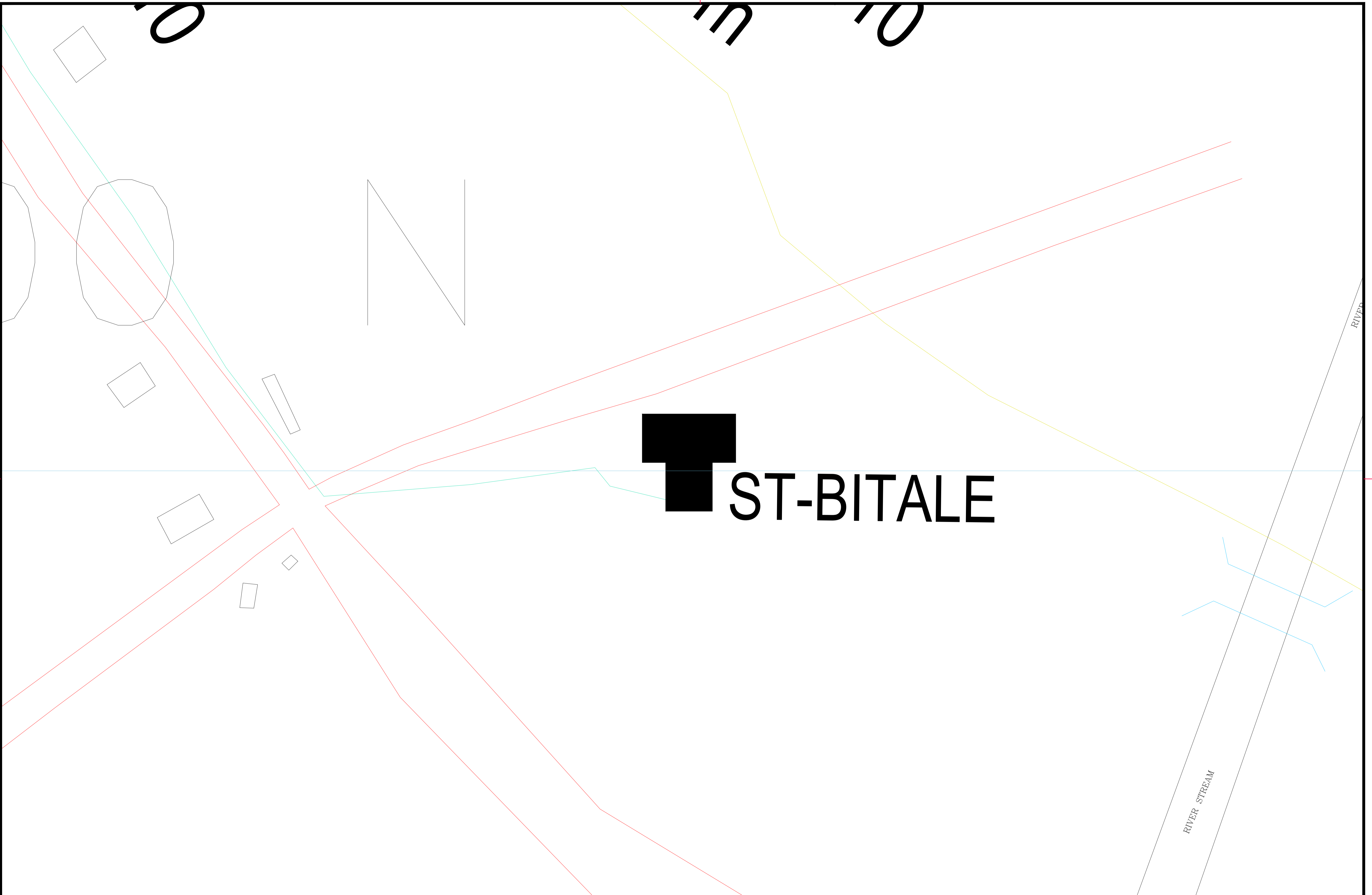
Revision	Description	Date
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Designed by: A.Juma Date: Sept 2019
 Drawn by: F.Maliwa Date: Sept 2019
 Checked by: C.Werema Date: Sept 2019
 Approved by: L.Kalenga Date: Sept 2019
 Scale: VS=1:100

Drawing Title:

**GENERAL LAYOUT FOR
 MKONGORO 1 GRAVITY MAIN**

Drawing NO: **ENBL/001/24**



Client:



Project:

CONSULTANCY SERVICES TO CONDUCT FEASIBILITY STUDY, DEVELOP ENGINEERING DESIGNS, TENDER DOCUMENTS FOR MKONGORO 1 GROUP GRAVITY-FED PIPED WATER SUPPLY SCHEME

Consultant:



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Notes:

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Designed by:	Date:	Revision	Description	Date
A.Juma	Sept 2019	0		
F.Moliwa	Sept 2019			
C.Werema	Sept 2019			
L.Kalenga	Sept 2019			
Scale:	VS=1:100			

Drawing Title:

GENERAL LAYOUT FOR MKONGORO 1 GRAVITY MAIN

Drawing NO: ENBL/001/25