

PROPOSAL FOR PROFESSIONAL SERVICES AS AN ASSISTANT WASH ENGINEER/CIVIL ENGINEER CONSULTANT



A. Proposal Overview

Proposed Intention

Capacity Level

Date prepared

Expression of Interest

Individual Consultants

28 December 2025

B. Consultant Profile

Prepared by

Country of Nationality

Address of Consultant

Position

Phone

Email address

: Clinton Odhiambo

: Kenya

: Nairobi

: Assistant WASH Engineer/Civil Engineer
Consultant

: 0706272537

: Clintonodhiambo50@gmail.com

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I. Letter of Introduction

C. Letter of Introduction

Dear Sir/Madam,

I wish to submit my **Expression of Interest** to provide professional services as an **Assistant WASH / Civil Engineer**, supporting UN agencies and partner organizations in the planning, design, and implementation of water and sanitation infrastructure projects.

I am a **Kenya-based engineer (EMEA region)** with over **6 years of experience** supporting donor-funded and public-sector WASH and civil engineering projects. My professional focus is to provide **structured technical support to senior engineers**, contributing to timely delivery, quality assurance, and effective project coordination.

My role is structured to **complement—not replace—senior technical leadership**, by supporting routine engineering, documentation, and coordination functions. This approach improves operational efficiency and allows senior engineers to focus on strategic oversight, approvals, and stakeholder engagement.

I currently serve as the **Lead Water Systems Engineer for Laikipia and Taita Counties at eWATERSERVICES**, where I have led multiple water supply projects from design through commissioning, delivering results within compressed timelines while maintaining compliance with technical standards.

My experience includes assignments under **World Bank-funded programs**, the **USAID/DAI STAWI Project**, major infrastructure relocation works, and water, wastewater, and stormwater systems in **Kenya, Djibouti, and Rwanda**.

I have supported:

- Engineering designs and technical drawings
- BOQs, cost estimates, and quantity take-offs
- Contractor coordination and site monitoring
- Technical reporting, progress tracking, and meeting documentation

In addition, I apply **data-driven tools**, including Python-based automation, to improve reporting accuracy, calculation efficiency, and decision support.

I am available for **short-term or long-term assignments**, remotely or on-site, and I am committed to **results-based delivery, sustainability, and alignment with international standards and UN operational procedures**.

I would welcome the opportunity to support your programmes and contribute to improved access to safe and reliable water and sanitation services.

Yours faithfully,

Clinton Odhiambo

WASH Engineer / Civil Engineer Consultant

Kenya (EMEA Region)

II. Expression of Interest

D. Expression of Interest

1. Professional Summary

I am a highly skilled WASH Engineer with 5 years of experience in designing, implementing, and managing water, sanitation, and hygiene projects in diverse settings, including rural, urban, and emergency contexts. My expertise spans **project design, technical implementation, community engagement, and monitoring and evaluation**. I have successfully delivered WASH solutions for organizations such as **Finix Consulting Ltd.**, **Multiplex Ltd** contributing to improved public health outcomes and sustainable development.

2. Areas of Expertise

I offer professional services in the following areas:

2.1. Project Design and Planning

- Conduct community needs assessments and feasibility studies for WASH projects, including population demand analysis.
- Design water supply systems (e.g., wells, boreholes, piped systems, rainwater harvesting, water pans, small dams).
- Plan and design sanitation systems (e.g., sewer lines, latrines, septic tanks, sewage treatment plants).
- Develop hygiene promotion programs and infrastructure to improve public health outcomes.
- Ensure designs comply with local regulations, environmental standards (e.g., ESIA, NEMA), and international frameworks (e.g., WHO, SPHERE, SDG 6).

2.2. Technical Implementation

- Oversee the construction and installation of WASH infrastructure, ensuring quality and adherence to design specifications.
- Supervise drilling, piping, and installation of water supply systems.
- Manage the construction of sanitation facilities (e.g., toilets, waste treatment plants).
- Ensure the use of appropriate materials and technologies for durability and sustainability.

2.3. Monitoring and Maintenance

- Monitor the functionality and performance of WASH systems through regular inspections.
- Troubleshoot and repair technical issues in water supply and sanitation systems.
- Train local communities or technicians to maintain systems independently.

2.4. Community Engagement and Capacity Building

- Work with communities to understand their needs and preferences, ensuring culturally appropriate solutions.
- Promote behaviour change through hygiene education and awareness campaigns.
- Train local stakeholders on the operation and maintenance of WASH systems.
- Encourage community ownership and participation in WASH projects.

2.5. Environmental and Public Health Considerations

- Ensure WASH projects minimize environmental impact (e.g., proper waste disposal, water conservation).
- Address water quality issues (e.g., contamination, treatment) to prevent waterborne diseases.
- Design systems to improve public health outcomes and resilience.

2.6. Emergency Response and Disaster Relief

- Provide rapid WASH solutions in disaster or conflict-affected areas (e.g., emergency water supply, temporary sanitation facilities).
- Assess and mitigate risks related to water and sanitation in emergencies.
- Collaborate with humanitarian organizations to deliver WASH services in crises.

2.7. Data Collection and Reporting

- Conduct surveys and collect data on water quality, sanitation coverage, and hygiene practices.
- Analyse data using **Python programming** to evaluate the effectiveness of WASH interventions.
- Prepare technical reports and documentation for stakeholders and donors.

2.8. Collaboration and Coordination

- Work with government agencies, NGOs, and international organizations to implement WASH programs.
- Coordinate with other sectors (e.g., health, education) to integrate WASH into broader development goals.
- Advocate for WASH policies and funding at local, national, and international levels.

2.9. Innovation and Sustainability

- Explore and implement innovative WASH technologies (e.g., solar-powered water pumps, eco-friendly toilets).
- Ensure projects are sustainable and resilient to climate change and other challenges.
- Promote cost-effective and culturally appropriate solutions.

2.10. Compliance and Safety

- Ensure all WASH projects comply with safety standards and regulations.
- Conduct risk assessments and implement safety measures during construction and operation.
- Address gender-specific needs (e.g., safe and accessible sanitation facilities for women and girls).

3. Qualifications and Experience

I bring the following qualifications and experience to the table:

- **Educational Background:** Bachelor's degree in Civil Engineering with a focus on water and sanitation.
- **Professional Experience:** [X years] of experience in WASH project design, implementation, and monitoring, including work with [list relevant organizations or projects].

- **Technical Skills:** Proficiency in engineering software (e.g., AutoCAD, EPANET, GIS) and strong knowledge of WASH standards and guidelines.
- **Programming Skills:** Proficient in **Python programming** for data analysis, automation, and enhancing project efficiency.
- **Certifications:** [List relevant certifications, e.g., WASH in Emergencies, Project Management, etc.]
- **Soft Skills:** Excellent communication, teamwork, and problem-solving abilities.

4. Approach and Methodology

My approach to WASH projects is structured, participatory, and results-oriented. Key elements of my methodology include:

1. **Needs Assessment:** Conducting thorough assessments to understand the specific WASH needs of the target communities.
2. **Stakeholder Engagement:** Collaborating with local stakeholders to ensure community ownership and sustainability.
3. **Evidence-Based Design:** Using data-driven approaches to develop technically sound and context-appropriate WASH solutions.
4. **Quality Assurance:** Implementing rigorous quality control measures throughout the project lifecycle.
5. **Knowledge Transfer:** Building the capacity of local teams to ensure long-term project success.

5. Why Choose Me?

- **Technical Expertise:** I have a proven track record of delivering high-quality WASH infrastructure projects on time and within budget.
- **Adaptability:** I am experienced in working in diverse contexts, including rural, urban, and emergency settings.
- **Commitment to Sustainability:** I prioritize sustainable solutions that benefit communities in the long term.
- **Digital Proficiency:** My skills in **Python programming** enable me to streamline data analysis, automate tasks, and enhance project efficiency.
- **Collaborative Approach:** I work closely with clients, stakeholders, and teams to achieve shared goals.
- **Availability:** I am ready to provide immediate support and can be reached at any time should an opportunity arise.

6. Selected Projects and Clients

I have had the privilege of working on the following notable projects and with esteemed clients:

- **Galana Kulalu Project** – Under Finix Consulting Ltd.
- **Nairobi Expressway Water Relocation Project**
- **Thika Greens Ltd.** – Water and Sewer Reticulation for Phases 1, 2, and 3.
- **STAWI Project (DAI/USAID)** – Water Supply.
- **Gatanga Water Supply Project** – Under Athi Water Works.
- **Water and Sewer Reticulation Project in Rwanda.**

These projects have allowed me to hone my skills in WASH infrastructure design, implementation, and supervision, and I am proud to have contributed to their success.

7. Availability and Flexibility

I am available for short-term or long-term assignments, either on-site or remotely, depending on the project requirements. My services can be tailored to meet the specific needs of **local firms, individual engineers, and international organizations**, whether for a single project or ongoing support. I am available at any time and can be contacted immediately for new opportunities.

8. Contact Information

I would welcome the opportunity to discuss how I can contribute to your **or your organization's** WASH projects. Please feel free to reach out to me at your convenience to explore potential collaboration.

Contact Details:

Clinton Odhiambo
clintonodhiambo50@gmail.com
0706272537

Website: -----

***Note:** My website is currently under development and will soon feature more information about my services, ongoing projects, and past work. Please check back later for updates!*

9. Attachments

1. Curriculum vitae (CV)
2. Sample Work/Portfolio
3. References

10. Conclusion

Thank you for considering my proposal. I am confident that my skills, experience, and dedication to sustainable WASH solutions make me a valuable asset to **local firms, individual engineers, and international organizations**. I look forward to the possibility of working together and contributing to impactful projects that improve water, sanitation, and hygiene conditions for communities in need.

Sincerely,

Clinton Odhiambo

Assistant WASH Engineer

III. Curriculum Vitae (CV)

CURRICULUM VITAE

1. Personal Details

Name : CLINTON ODHIAMBO
Date of birth : 21st July 1997
Experience : 6+ Years
Nationality : Kenyan

2. Contact Details

Phone: 0706 272 537
Email: clintonodhiambo50@gmail.com

3. Education

Duration	Name of qualification	College
Sep. 2017 – July 2022	B.t.c., Upper 2 nd Class Honors, Building & Civil Engineering	The Technical University of Mombasa, Kenya

4. Membership in Professional Societies

Organization	Class of Membership	Abbreviated Title (s)	Year of Registration
The Institution of Engineers of Kenya (IEK)	Registered Graduate Engineer	Grad. Eng.	Dec 2020

5. Professional Skills

Through my working experience, I have acquired the following skills:

- Civil3D, AutoCAD, Global Mapper, Google Earth Pro, MS Project & MS Office.
- Sewer and water design work, preparation of drawings, and cost estimates (BOQ).
- Preparation and building Bill of Quantities.
- Taking quantities off designed drawings for Engineer's Cost Estimates.
- Drafting, compilation, and printing of drawings.
- Writing, compilation, and printing of Project and Daily Reports.

- g. Site supervision.
- h. Dumpy level machine, RTK machine, excavator & Shovel operation.
- i. Laboratory tests; – CBR test, soil moisture content, and soil grading (Sieve analysis).

6. Other Skills

- a. Junior software developer (Python programming)
- b. Professional transcriptionist.

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7. Summary Experience

7.1 Employment Experience

Current	eWATERSERVICES	Position: Resident Engineer (RE) – Laikipia & Taita County
May. 2025 – to date	Contact: Eng. Samuel Ngatia Nairobi, Kenya Mobile: +254 723 419082	<ul style="list-style-type: none">• Conducted engineering surveys and site assessments to support design of rural water supply systems.• Prepared and reviewed technical designs, drawings, BoQs, cost estimates, and specifications.• Supervised construction and installation of pipelines, storage tanks, pumping units, and smart taps.• Monitored contractor performance, ensured compliance with designs, safety standards, and quality requirements.• Verified completed works for interim payments and prepared site inspection/progress reports.• Oversaw installation, testing, and commissioning of eWATER smart tap systems; trained local operators and users.• Coordinated with county officials, community leaders, and water committees to ensure smooth project implementation.• Collected field data for monitoring and evaluation, and contributed to internal and donor reporting.

Previous	Finix Consulting Ltd	Position: Assistant WATSAN Engineer
Jan 2021 – May 2025	Contact: Eng. Moses A. Otieno P. O. Box 1088-00517, Nairobi, Kenya. Email: info@finix.co.ke Mobile: +254 728 041 675	<ul style="list-style-type: none">• STAWI DAI Design for Irrigation and water supply projects• Design for newly proposed twin DN 900 Water rising mains Galana Kulalu.• Preparation of layout drawings and pipeline profiles for Galana Kulalu.• Preparation of technical design presentation for the Galana Kulalu project• Assistant Engineer: Design and design review for the proposed NAIVAWASCO AOD Water project in Naivasha and Embu.• Assistant Engineer: Design and design review for the ongoing Nairobi Rivers Basin Rehabilitation and Restoration Program: Sewerage Improvement Project – Phase 2 – Lot 5.• Assistant Engineer: AutoCAD and Civil3D drafting for Rongai and Mavoko proposed sewer lines treatment works.

		<ul style="list-style-type: none"> Preparation of layout drawings and pipeline profiles. Planning, analysis, and design of water works (rising mains, gravity mains, Weirs, water storage, distribution lines, and treatment works) and building up of BOQ for Engineer's Cost Estimates. Assistant Surveyor: Relocation of sewer and waterlines along Nairobi Expressway-taking levels and coordinate position for as-built pipes. Preparation of reports: Report writing, compilation, and printing.
	Mayswood Company Ltd	Position: General site foreman
Mar. 2020 – Dec. 2020	Contact: Eng. Owaa Tobias Mombasa, Kenya Mobile: +254 739 508 667	<ul style="list-style-type: none"> Supervision: Renovation of Mombasa Coast General Teaching & Referral Hospital-restructuring and construction of cancer patient ward, construction of Cath Lab, installation of new doors, door closers, tilling, and general painting.
	GL William Company Ltd	Position: Assistant Site Engineer
Apr. 2019 – Mar. 2020	Contact: Eng. Billy Williams – Managing Director Nairobi, Kenya. Mobile: +254 733783033	<ul style="list-style-type: none"> Surveying: Marking off contours, designing water levels, embankments, and fences, installation of the underground and washout pipes as well as the generator. Earthwork operation: shovel and excavator. Laboratory tests: CBR tests, concrete slump tests, soil analysis cube tests, and moisture content.

7.2 Personal Projects Experience (Individual Contracts)

Duration	Employer	Responsibilities
	Individual Contract	Consultant Design Engineer
JUNE 2024 – to date	UPWORK ONLINE PLATFORM UPWORK CONTRACT	<ul style="list-style-type: none"> Design for potable water mains. Design for non – potable water mains. Design for sanitary sewer mains. Data analysis Preparation of technical designs. Preparation of layout drawings and pipeline profiles for each main
	Individual Contract	Consultant Design Engineer
JUNE 2024 – to date	Athi Water Works Development Agency (AWWDA), Athi Water Plaza, Muthaiga North Road Off Kiambu Road Nairobi, P.O Box 45283-00100 Nairobi	<ul style="list-style-type: none"> Design for Gatanga Primary Pipeline. Data analysis Preparation of technical designs. Preparation of layout drawings and pipeline profiles
	Individual Contract	Consultant Design Engineer

MAY 2024	<p>Athi Water Works Development Agency (AWWDA),</p> <p>Athi Water Plaza, Muthaiga North Road Off Kiambu Road</p> <p>Nairobi, P.O Box 45283-00100 Nairobi</p>	<ul style="list-style-type: none"> • Design for Maragua maraga ridge water supply. • Data collection and analysis • Preparation of technical designs. • Preparation of layout drawings and pipeline profiles
	Individual Contract	Consultant Design Engineer
MAY 2024	<p>Athi Water Works Development Agency (AWWDA),</p> <p>Athi Water Plaza, Muthaiga North Road Off Kiambu Road</p> <p>Nairobi, P.O Box 45283-00100 Nairobi</p>	<ul style="list-style-type: none"> • Design for Kijabe Hospital water supply main. • Data collection and analysis • Preparation of technical designs. • Preparation of layout drawings and pipeline profiles
	Individual Contract	Consultant Design Engineer
	<p>Athi Water Works Development Agency (AWWDA),</p> <p>Athi Water Plaza, Muthaiga North Road Off Kiambu Road</p> <p>Nairobi, P.O Box 45283-00100 Nairobi</p>	<ul style="list-style-type: none"> • Design for Kimakia Raw Water Intake mains. • Data collection and analysis • Preparation of technical designs. • Preparation of layout drawings and pipeline profiles

8. Detailed Employment Experience Record

A.	Current Responsibility	
Country	Kenya – Laikipia & Taita Taveta County	
Dates	May 2025 – to date	
Position	Lead Water Engineer for Laikipia & Taita Taveta County	
Client/Employer	eWATERSERVICES	
Current Projects	<i>Project completed, operational and Launched – Serving more than 5 villages</i>	
	<ol style="list-style-type: none"> 1. Kiamariga water supply project – Laikipia County 2. Ol Moran water supply project – Laikipia County 3. Mutanga water supply project – Laikipia County 	<ol style="list-style-type: none"> 4. Karandi water supply project – Laikipia County 5. Kinamba Sosian water supply – Laikipia County
Duties	<p>Project Supervision & Quality Control</p> <ul style="list-style-type: none"> • <i>Oversee daily construction and installation works for water supply systems, including pipelines, storage tanks, pumping systems, and smart taps.</i> • <i>Ensure contractors comply with approved designs, drawings, and technical specifications.</i> • <i>Monitor quality of materials, workmanship, and adherence to safety standards.</i> <p>Technical Support</p> <ul style="list-style-type: none"> • <i>Assist in preparing and reviewing engineering designs, BoQs, and cost estimates.</i> • <i>Provide on-site technical guidance to contractors and local technicians.</i> • <i>Support testing, commissioning, and handover of completed water systems.</i> <p>Progress Monitoring & Reporting</p> <ul style="list-style-type: none"> • <i>Track and document project progress against schedules, budgets, and targets.</i> • <i>Prepare site inspection reports, progress updates, and incident reports.</i> • <i>Verify and measure completed works for interim payment certificates.</i> <p>Community & Stakeholder Engagement</p> <ul style="list-style-type: none"> • <i>Coordinate with local leaders, county officials, and community water committees to ensure smooth project implementation.</i> • <i>Conduct sensitization meetings on system use, operation, and maintenance.</i> • <i>Address community feedback and resolve minor disputes on site.</i> <p>Smart Tap & Technology Oversight</p> <ul style="list-style-type: none"> • <i>Supervise installation and maintenance of eWATER smart tap systems.</i> • <i>Train community operators and users on how to access and manage prepaid water systems.</i> • <i>Support troubleshooting of smart meter/tap functionality in collaboration with technical teams.</i> <p>Contractor & Team Coordination</p> <ul style="list-style-type: none"> • <i>Liaise between the Resident Engineer, contractors, suppliers, and eWATER management.</i> • <i>Ensure timely delivery of materials and resolve on-site challenges.</i> 	

	<ul style="list-style-type: none"> • <i>Enforce compliance with contractual terms and environmental safeguards.</i> <p>Monitoring, Evaluation & Learning (MEL)</p> <ul style="list-style-type: none"> • <i>Collect field data on water system performance, user satisfaction, and access improvements.</i> • <i>Document lessons learned and best practices for future projects.</i> • <i>Contribute to donor and internal reports with field evidence and case studies.</i>
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8.1 My Previous roles/Projects

A.	Project A
Country	Kenya – WAJIR County
Dates	February 2024 – May 2025
Position	Assistant Engineer
Employer	Finix Consulting Ltd
Client	STAWI DAI
Project	Design and Supervision of STAWI DAI Irrigation and Water Supply.
Duties	<ul style="list-style-type: none"> ▪ Design for Kimakia Raw Water Intake mains. ▪ Preparation of layout drawings and pipeline profiles. ▪ Preparation of technical design presentation. ▪ Data collection and analysis ▪ Preparing feasibility designs for the proposed works in the various towns ▪ Make presentations of the progress of works at various stages of completion
B.	Project B
Country	Kenya – Muranga' County
Dates	April 2024 – to date
Position	Consultant Design Engineer
Employer	Individual Contract
Client	Athi Water Works Development Agency (AWWDA).
Project	Rehabilitation of Independent Mataara Water Supply Scheme Project.
Duties	<ul style="list-style-type: none"> ▪ Design for Kimakia Raw Water Intake mains. ▪ Preparation of layout drawings and pipeline profiles. ▪ Preparation of technical design presentation. ▪ Data collection and analysis ▪ Preparing feasibility designs for the proposed works in the various towns ▪ Make presentations of the progress of works at various stages of completion
C.	Project C
Country	Kenya – Kilifi County – Galana Kulalu
Dates	Jan 2024 – March 2024
Position	Assistant Engineer
Employer	Finix Consulting Ltd
Client	Selu Ltd Kenya
Project	Consultancy Services for the Design of Irrigation System for Galana Kulalu Farm Phase 1,2 &3, Tana River and Kilifi Counties

Duties	<ul style="list-style-type: none"> Design for newly proposed TWIN DN 900 Water rising mains. Preparation of layout drawings and pipeline profiles. Preparation of technical design presentation.
D.	Project D
Country	Kenya – Nakuru County – Naivasha Town
Dates	Jan 2023 – to date
Position	Assistant Engineer
Employer	Finix Consulting Ltd
Client	Naivasha Water and Sanitation Company Limited. (NAIVAWASCO)
Project	Consultancy Services for Feasibility Study, Detailed Design review for the Proposed AOD Water Project
Duties	<ul style="list-style-type: none"> Design for Water-rising mains and distribution lines. Preparation of layout drawings and pipeline profiles. Preparation of technical design presentation. Data collection and analysis Preparing feasibility designs for the proposed works in the various towns Make presentations of the progress of works at various stages of completion Treatment plant design and treatment plant layout drawings preparation
E.	Project E
Country	Kenya – Muranga’ County
Dates	Jan 2023 – to date
Position	Assistant Engineer
Employer	Finix Consulting Ltd
Client	Syngenta Kenya Cuttings Ltd, Muranga’.
Project	Design of the ongoing Greenhouse Improvement Works Project for the Syngenta Kenya Cuttings Ltd Muranga’.
Duties	<ul style="list-style-type: none"> Design for Water-rising mains and distribution lines. Preparation of layout drawings and pipeline profiles. Preparation of technical design presentation. Data collection and analysis Preparing feasibility designs for the proposed works in the various towns Make presentations of the progress of works at various stages of completion Treatment plant design and treatment plant layout drawings preparation
F.	Project F
Country	Kenya – Nairobi County – Dagoretti town, Embakasi, Kamkunji, Kibra, Makadara, Mathare
Dates	October 2023 – to date
Position	Assistant Engineer
Employer	Finix Consulting Ltd
Client	Athi Water Works Development Agency (AWWDA).
Project	Design and design review for the ongoing Nairobi Rivers Basin Rehabilitation and Restoration Program: Sewerage Improvement Project – Phase 2 – Lot 5.
Duties	<ul style="list-style-type: none"> Picking of site locations. Design of the sewer lines in the informal settlement. Design of the water lines. Preparation of design report.

G.	Project G
Country	Kenya – Nairobi County
Dates	Jan 2022 to May 2022
Position	Asst. Site Engineer
Employer	Finix Consulting Ltd
Client	Athi Water Works Development Agency, (AWWDA)
Project	Relocation of water and sewer lines along the Nairobi expressway
Duties	<ul style="list-style-type: none"> Design for Water Pipelines, Storage tanks, and intake water works. Preparation of layout drawings and pipeline profiles. Preparation of technical design presentation. Data collection and analysis Preparing feasibility designs for the proposed works in the various towns Make presentations of the progress of works at various stages of completion Treatment plant design and treatment plant layout drawings preparation
H.	Project H
Country	Kenya – Mombasa County
Dates	March 2020–December 2020
Position	Assistant Site Engineer
Employer	Mayswood Construction Pvt Ltd
Client	Mombasa County Government
Project	Renovation of Mombasa Coast General Teaching & Referral Hospital
Duties	<ul style="list-style-type: none"> Restructuring and construction of cancer patient ward. Construction of the Cath Lab. Installation of new doors and door closers. Tiling and window installation. General painting.
I.	Project I
Country	Kenya – Nairobi County
Dates	April 2019 – September 2019
Position,	Assistant Site Foreman
Employer,	G.L Williams Ltd
Client,	Lenana School Alumni
Project	Construction of Lenana Earth Dam
Duties	<ul style="list-style-type: none"> Designing water levels, and marking off contours & embankments. CBR tests, moisture content tests, concrete slump tests, cube tests, and sieve analyses. Installation and laying of underground outlet water pipe & wash-out pipes. Installation of water pumping generators. Installation of steel tanks.

9. Languages

	LANGUAGE	WRITE	SPEAK	READ
1.	English	Excellent	Excellent	Excellent
2.	Kiswahili	Excellent	Excellent	Excellent

10. Referees

Contact No. 1

Eng. Fredrick Kangogo – Kenya Regional Engineer
eWATERSERVICES.
Email: fredrick.kangogo@ewater.services
Mobile: +254 708198804

Contact No. 2

Eng. Moses A. Otieno – Managing Director
Finix Consulting Ltd.
P. O. Box 1088-00517, Nairobi. Kenya.
Email: info@finix.co.ke
Mobile: +254 728 041 675

Contact No. 3

Robert Mnyolmo – Head of the Technical Department
Finix Consulting Ltd.
Mobile : +254 703 135 550
Email : robertmnyolmo@gmail.com

11. Certification

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience.



Signature

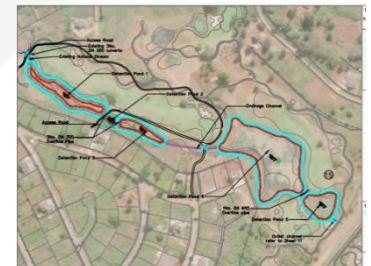
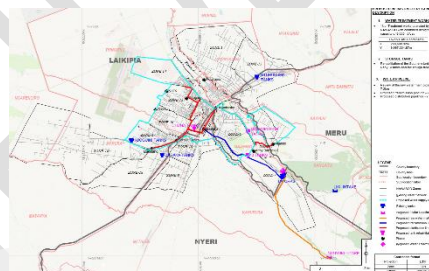
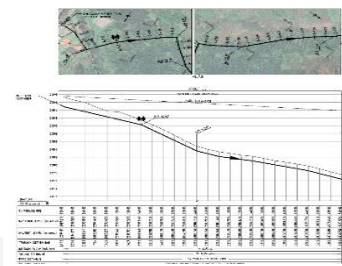
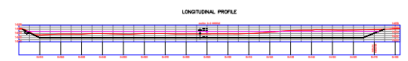
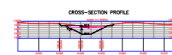
28 December 2025

Date: (Day/Month/Year)

IV. Sample Work/Portfolio

PROFESSIONAL PORTFOLIO

WASH AND CIVIL ENGINEERING CONSULTANT



SAMPLED KEY PROJECTS AND ACHIEVEMENTS

CLINTON ODHIAMBO

CONTACT INFORMATION

Individual Consultant

Phone No.:

0706 272 537

Email:

Clintonodhiambo50@gmail.com

WATER

&

WASTE WATER

1. Introduction/Brief Profile

I am a dedicated and results-driven WASH Engineer with over 6+ years of professional experience in the planning, design, implementation, and management of water, sanitation, and hygiene (WASH) projects. My expertise spans project planning, technical design and supervision, community engagement, and monitoring and evaluation, enabling the delivery of reliable and sustainable WASH services.

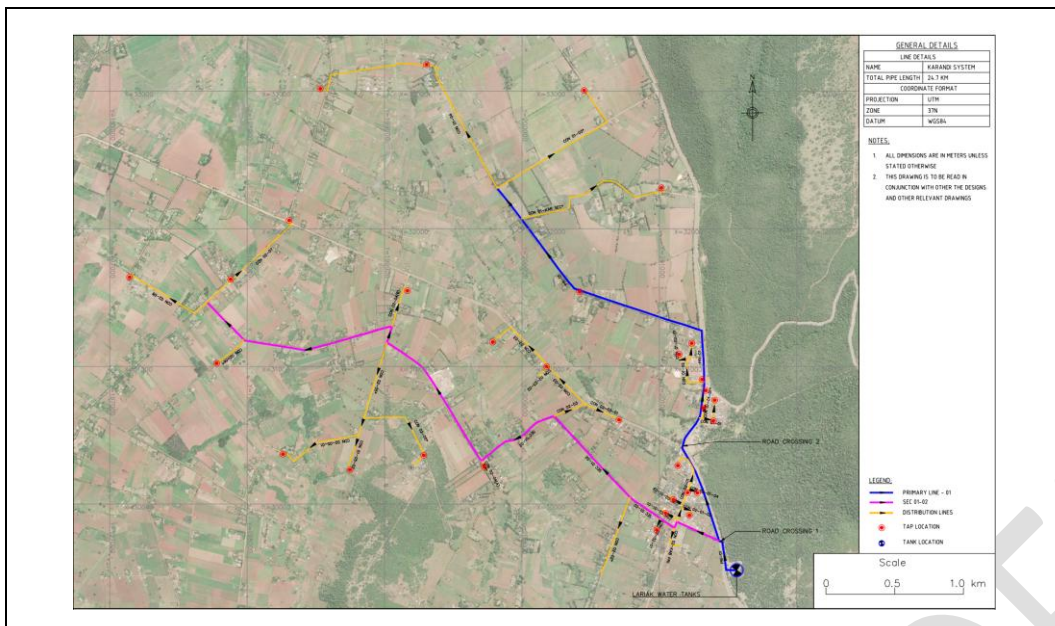
I have successfully contributed to and led WASH interventions across rural, urban, and emergency contexts, working on donor-funded, government, and infrastructure-scale projects. My experience includes water supply systems, stormwater management, wastewater infrastructure, and large-scale service delivery improvements aimed at increasing access, efficiency, and resilience.

I am particularly focused on delivering practical, cost-effective, and impact-driven solutions, ensuring systems meet performance standards while remaining affordable and maintainable for communities and service providers. This portfolio highlights selected projects that demonstrate my technical competence, delivery efficiency, and commitment to sustainable, inclusive, and high-quality WASH solutions.

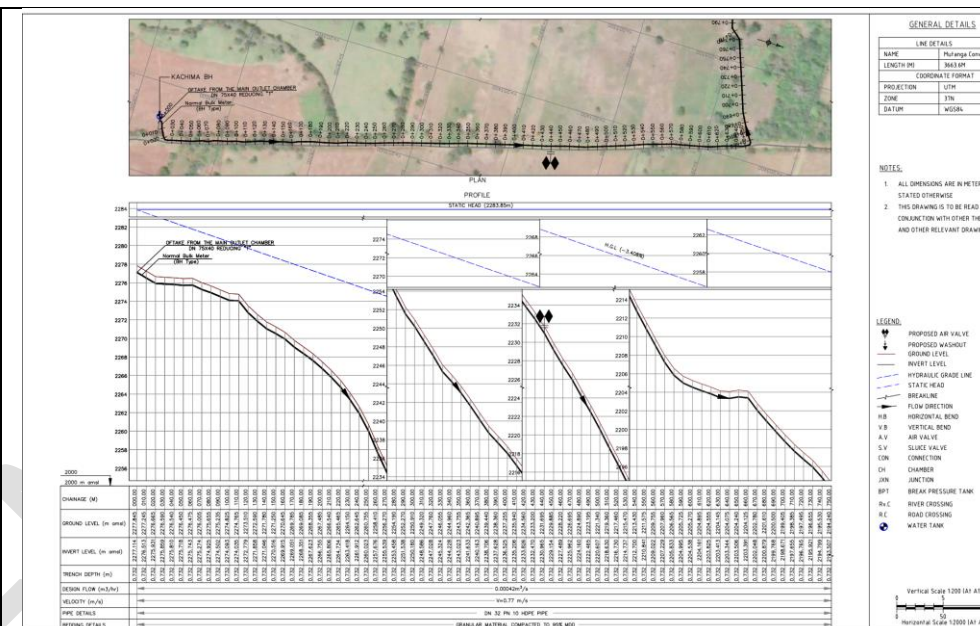
2. Selected Projects

2.1. Project 1: ASSITANT RESIDENT ENGINEER – LAIKIPIA COUNTY

Umbrella Firm	Project	Location	Duration	Role
eWATERSERVICES	Kiamariga Project	Kenya	Jan 2025 – Apr. 2025	Asst. Resident Eng. Laikipia Region
Responsibilities				
<ul style="list-style-type: none">Project Supervision & Quality ControlTechnical Support	<ul style="list-style-type: none">Progress Monitoring & ReportingSmart Tap & Technology Oversight	<ul style="list-style-type: none">Community & Stakeholder Engagement	<ul style="list-style-type: none">Contractor & Team CoordinationMonitoring, Evaluation & Learning (MEL)	
Achievements				
Successfully contributed to the planning, design, and implementation of Kiamariga, Ol Moran, Mutanga and Karandi water infrastructure project, ensuring the delivery of 5000 L/d clean water to community taps thereby providing 24/7 clean and safe water to these communities in Laikipia.				
Key Contributions:				
A. Technical Design and Documentation:	B. Supervision, Reporting and Coordination		C. Stakeholder Engagement and Coordination	
<ul style="list-style-type: none">Prepared and updated technical drawings and the Book of Drawings, ensuring accurate and up-to-date project blueprints.Developed detailed Bills of Quantities (BoQs), enabling precise cost estimation and resource allocation.	<ul style="list-style-type: none">Supported the preparation of technical reports and tender documents, facilitating smooth project execution and procurement processes.Took detailed notes and minutes during meetings, ensuring clear communication and documentation of project progress and decisions.		<ul style="list-style-type: none">Assisted an ESIA expert in conducting site meetings in Baraka, Thigithu, and Majengo, supporting community engagement, data collection(questionnaire), and documentation to ensure compliance with environmental and social safeguards.	
Visuals				



1. Karandi System Layout Map Drawing



2. Mutnag Main Conveyance Pipeline Profile



3. Bush clearing and Pipe trenching



4. Pipe trenching, pipe layong and backfilling



Aug 1, 2025 3:59:28 PM
0.2699N 36.3378E

5. Pressure Testing



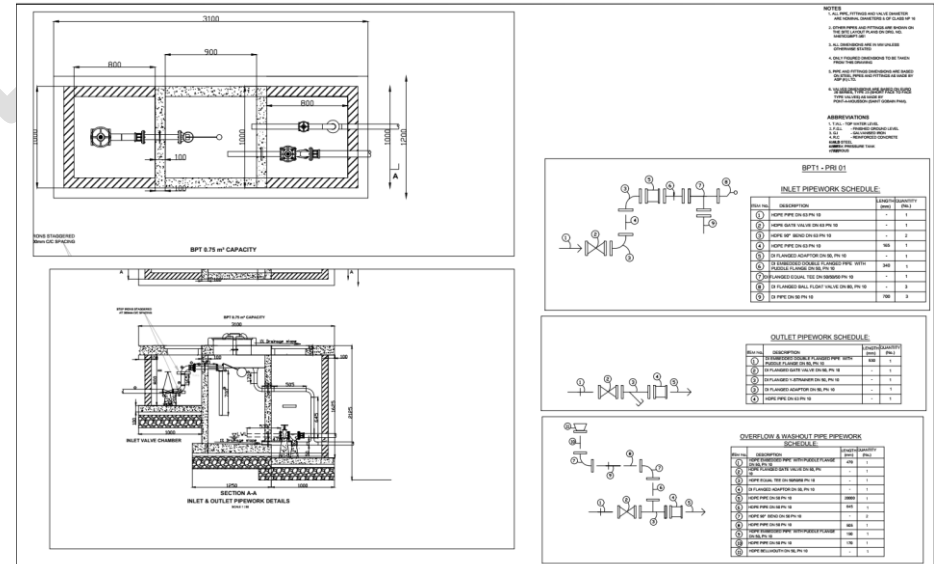
3 Sep 2025 17:05:01

6. Airvalve Chmber with Marker Post



Nov 11, 2025 11:22:23 A
37°N 201320 3066

7. Community Smart Taps



8. BPT Drawing



Dec 4, 2025 10:57:13 AM
37N 205235 28778

9. A sample of BPT structure installed



Nov 10, 2025 4:19:20 PM
37N 202248 29523

10. Chamber outlet Y-Strainer



Nov 11, 2025 2:56:48 PM
37N 203297 28770

11. Break pressure tank

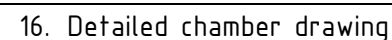
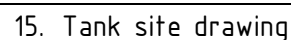
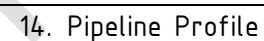


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12. BH chamber and meter installation

2.2. Project 1: CONSULTING SERVICES FOR DETAILED TECHNICAL DESIGN AND TENDER DOCUMENTS PREPARATION FOR THE NANYUKI WATER SUPPLY PROJECT

Umbrella Firm	Client	Location	Duration	Role
Finix Consulting Ltd	JICA&NAWASCO	Kenya	Nov. 2024 – Apr. 2025	Asst. WASH Consulting Engineer
Responsibilities				
<ul style="list-style-type: none">• Preparation and update of technical Drawings.• BoQ preparation	<ul style="list-style-type: none">• Preparation and update of Book of Drawings.• Support in Technical report preparation	<ul style="list-style-type: none">• Support in tender docs' preparation	<ul style="list-style-type: none">• Support in conducting ESIA engagement in the project area.• Notes and Minutes taking.	
Achievements				
Successfully contributed to the planning, design, and implementation of a water infrastructure project, ensuring the delivery of 6000 m³/d clean water to households in Nanyuki Town, Majengo, Thigithu, and Baraka areas and therefore reducing water rationing.				
Key Contributions:				
D. Technical Design and Documentation:	E. Reporting and Coordination		F. Stakeholder Engagement and Coordination	
<ul style="list-style-type: none">• Prepared and updated technical drawings and the Book of Drawings, ensuring accurate and up-to-date project blueprints.• Developed detailed Bills of Quantities (BoQs), enabling precise cost estimation and resource allocation.	<ul style="list-style-type: none">• Supported the preparation of technical reports and tender documents, facilitating smooth project execution and procurement processes.• Took detailed notes and minutes during meetings, ensuring clear communication and documentation of project progress and decisions.		<ul style="list-style-type: none">• Assisted an ESIA expert in conducting site meetings in Baraka, Thigithu, and Majengo, supporting community engagement, data collection(questionnaire), and documentation to ensure compliance with environmental and social safeguards.	
Visuals				



2.3. Project 2: ENGINEERING CONSULTANCY SERVICES FOR WAJIR COUNTY – LOT 2

Umbrella Firm	Client	Location	Duration	Role
Finix Consulting Ltd	DAI/USAID	Kenya	May. 2024 – Dec. 2025	Asst. WASH Consulting Engineer
Responsibilities				
<ul style="list-style-type: none">Conducted a thorough Desktop reconnaissance.Developed and updated technical drawings for the rehabilitation and installation works.	<ul style="list-style-type: none">Prepared Bills of Quantities (BoQs) to facilitate cost estimation and resource allocation.Assisted in the preparation of tender documents to streamline procurement processes.	<ul style="list-style-type: none">Supported the preparation of technical reports to document project progress and key findings.Recorded meeting notes and minutes, ensuring clear documentation of decisions and action points.	<ul style="list-style-type: none">Coordinated with stakeholders, including contractors and community representatives, to align project goals with local needs.	
Achievements				
Successfully contributed to the rehabilitation and expansion of essential water infrastructure, improving access to water for both domestic and agricultural use. The project involved rehabilitating a solar system, repairing a leaking 100 m ³ masonry tank, restoring two livestock troughs, and installing 2.5 km of 2" diameter main lateral pipelines and sub-laterals. Additionally, the installation of a floating intake system, a solarized pump, a rising main to an elevated 10 m ³ plastic tank, and irrigation mainlines significantly improved water distribution efficiency and sustainability.				
Key Contributions:				
A. Technical Design and Documentation:	B. Reporting and Coordination		C. Reporting and Coordination	
<ul style="list-style-type: none">Developed and refined technical drawings, ensuring accurate representation of infrastructure components.Designed and documented the floating intake system, solarized pump, and irrigation networks for optimal water distribution.Prepared comprehensive Bills of Quantities (BoQs) to support precise budgeting and resource planning.	<ul style="list-style-type: none">Designed and oversaw the rehabilitation of a 100 m³ masonry tank and two livestock troughs.Facilitated the design of 2.5 km of 2" diameter main lateral pipelines and sub-laterals.Provided technical support for the installation of a rising main to an elevated 10 m³ plastic tank and deployment of irrigation mainlines.		<ul style="list-style-type: none">Assisted in compiling technical reports to document project milestones and implementation progress.Supported the preparation of tender documents, facilitating efficient procurement and contractor engagement.Maintained organized meeting records and minutes, ensuring clear communication among project teams.	

Visuals

PROJECT LAYOUT - INTAKE AND DISTRIBUTION PIPES

LEGEND:

- PROPOSED RISING MAIN
- PROPOSED CYCLE 1 LINE
- PROPOSED CYCLE 2 LINE
- PROPOSED CYCLE 3 LINE
- PROPOSED FEEDER LINES
- CHIPPING CYCLE 1
- CHIPPING CYCLE 2
- CHIPPING CYCLE 3
- ACCESS ROAD
- PROPOSED TANK AND STORAGE AREA
- TANK

COORDINATE SYSTEM

POINT	Easting (m)	Northing (m)
1	1000000.00	1000000.00
2	1000000.00	1000000.00
3	1000000.00	1000000.00
4	1000000.00	1000000.00
5	1000000.00	1000000.00
6	1000000.00	1000000.00
7	1000000.00	1000000.00
8	1000000.00	1000000.00
9	1000000.00	1000000.00
10	1000000.00	1000000.00
11	1000000.00	1000000.00
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73	1000000.00	1000000.00
74	1000000.00	1000000.00
75	1000000.00	1000000.00
76	1000000.00	1000000.00
77	1000000.00	1000000.00
78	1000000.00	1000000.00
79	1000000.00	1000000.00
80		

1. Project layout - Intake and distribution pipes

2. Floating intake at the water pan

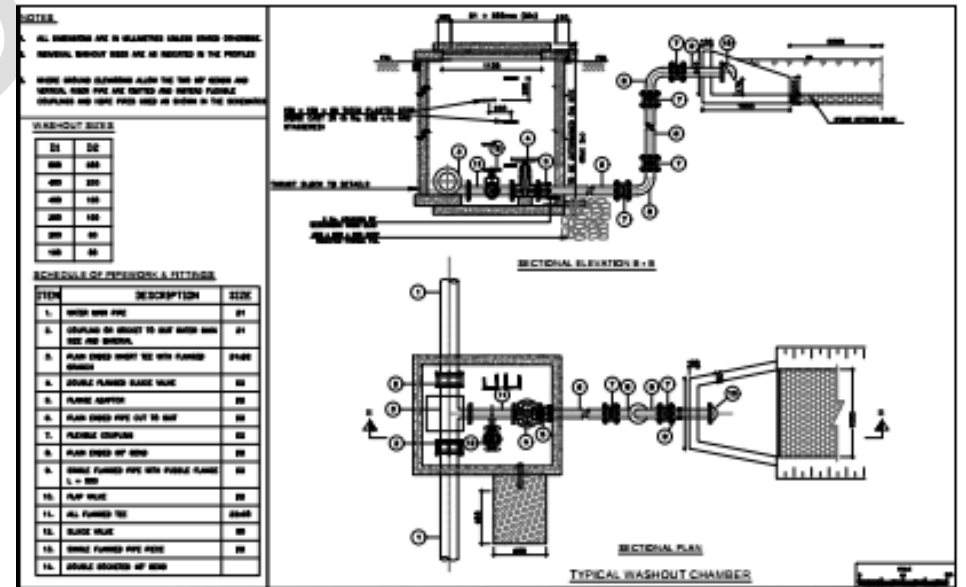
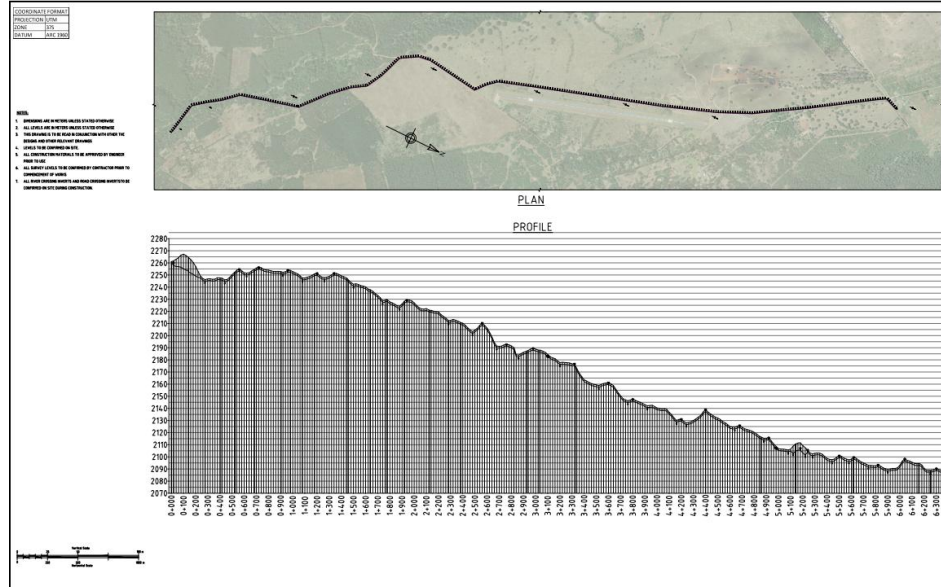
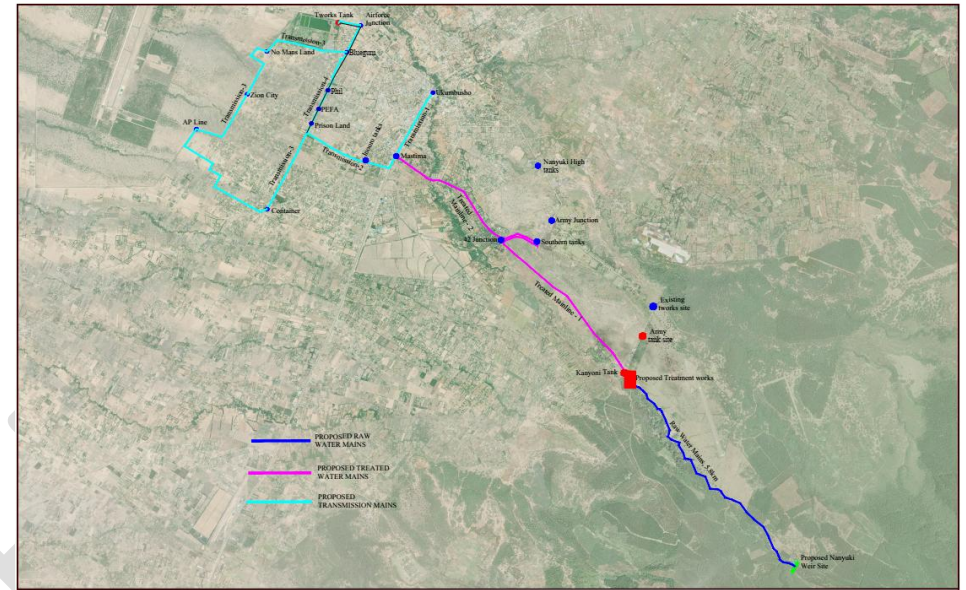
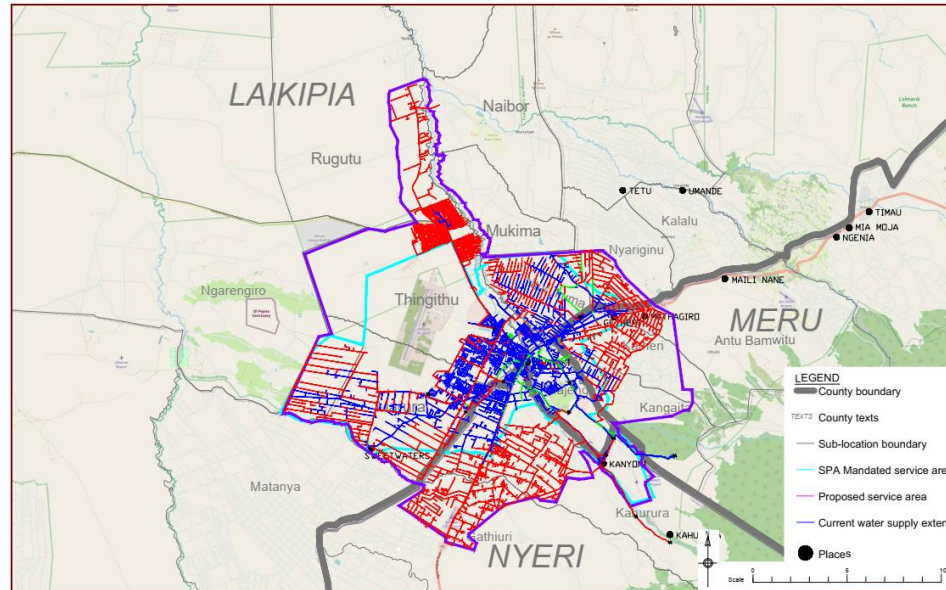
3. 50 m³ steel tank & tower

4. Cattle trough

2.4. Project 3: CONSULTING SERVICES FOR THE DEVELOPMENT OF AN OVERALL PROJECT IMPLEMENTATION PLAN FOR THE NANYUKI WATER AND SANITATION COMPANY (NAWASCO)

Umbrella Firm	Client	Location	Duration	Role
Finix Consulting Ltd	JICA&NAWASCO	Kenya	July. 2023 – Dec. 2024	Asst. WASH Consulting Engineer
Responsibilities				
Overall Project Implementation Plan (OPIP) Development: <ul style="list-style-type: none"> Investigate existing water infrastructure and create a plan for 100% water service coverage by 2030. Formulate priority projects and prepare a financing proposal. Develop a Bankable Project Plan (BPP) for implementation via commercial or blended financing. 	Data Collection and Review: <ul style="list-style-type: none"> Gather data on water supply coverage, design criteria, topography, hydrology, geology, population, and land use. Review existing reports and studies related to the OPIP. Evaluation of Existing Systems: <ul style="list-style-type: none"> Assess current water supply systems, including Non-Revenue Water (NRW). Evaluate the capacity and condition of intake facilities, WTPs, boreholes, reservoirs, and distribution networks. 	Preliminary Engineering Design: <ul style="list-style-type: none"> Create an outline design for 100% water coverage by 2030, including water demand projections, hydraulic analysis, and facility designs. Develop conceptual designs for intake facilities, WTPs, storage tanks, and distribution networks. Project Formulation and BPP Selection: <ul style="list-style-type: none"> Formulate project plans, including TOR, construction schedules, costs, and funding sources. 	<ul style="list-style-type: none"> Select a BPP based on feasibility, effectiveness, and priority. Conduct environmental and social impact assessments for each project. Stakeholder Collaboration: <ul style="list-style-type: none"> Collaborate with NAWASCO, the Client, and stakeholders to align on project goals and implementation. Review and update the NAWASCO Strategic Plan 2023–2028 based on proposed projects. 	
Achievements				
<p>The project successfully collected and confirmed critical data on water supply coverage, population, and NAWASCO's performance, while updating reports for OPIP development. It evaluated existing systems, identified gaps, and developed preliminary designs for 100% water coverage by 2030, including demand projections and conceptual designs for key infrastructure. Specific projects like the Kanyoni WTP Expansion were formulated, and candidate projects for the Bankable Project Plan (BPP) were evaluated, ensuring alignment with NAWASCO's goals and regulatory compliance.</p>				
Key Contributions:				
Strategic Planning: <ul style="list-style-type: none"> Played a pivotal role in developing the OPIP, ensuring it aligns with Kenya Vision 2030 and NAWASCO's strategic objectives. Provided actionable recommendations for achieving 100% water service coverage by 2030. 	Technical Expertise: <ul style="list-style-type: none"> Applied technical expertise in hydraulic analysis, water demand projection, and facility design to develop a robust and feasible plan. Ensured that all designs and plans adhere to Government of Kenya standards and international best practices. 	Environmental and Social Safeguards: <ul style="list-style-type: none"> Conducted initial environmental and social impact assessments, ensuring compliance with relevant laws and regulations. Proposed measures to mitigate negative impacts and enhance positive outcomes. Financial Planning: <ul style="list-style-type: none"> Developed detailed cost estimates and funding plans, ensuring financial viability and sustainability of the proposed projects. 		

Visuals



2.5. Project 4: PROVISION OF CIVIL ENGINEERING CONSULTANCY SERVICES FOR EMBU AND NAIVASHA WATER COMPANY DESIGN

Umbrella Firm	Client	Location	Duration	Role
Finix Consulting Ltd	NAIVAWASCO	Kenya	July. 2023 – Dec. 2024	Asst. WASH Consulting Engineer
Key Challenges				
<ul style="list-style-type: none"> Inadequate Water Supply High Fluoride Levels both in water sources 	<ul style="list-style-type: none"> Expanding Population and therefore increased water. Lack of Water Supply Network 	<ul style="list-style-type: none"> Non-Revenue Water (NRW): Outdated meters and unauthorized connections. 	<ul style="list-style-type: none"> Reliability of Water Supply due to Water rationing. 	
Responsibilities				
<ul style="list-style-type: none"> Technical Feasibility Assessment – Reviewed designs, drawings, and BoQs for financial viability. 	<ul style="list-style-type: none"> Site Verification – Conducted field assessments to validate infrastructure requirements. 	<ul style="list-style-type: none"> Strategic Planning – Improvements for service delivery, pipeline expansion, and storage optimization. 	<ul style="list-style-type: none"> Water Network Expansion Metering and Revenue Optimization 	
Achievements				
<p>I successfully validated a bankable water project, and expanding the distribution network by 37.76 km, which improved supply reliability and increased storage capacity from 150 m³ to 400 m³. My efforts enhanced water accessibility by connecting 2,700 households and 300 multi-dwelling units while boosting water sales to 58,800 m³ per month and reducing non-revenue water (NRW). Additionally, I contributed to increasing service hours to 24 hours and oversaw the rehabilitation of 8.78 km of distribution lines, strengthening infrastructure efficiency and sustainability.</p>				
Key Contributions:				
A. Technical Validation Expertise:	B. Strategic Infrastructure Planning		C. Financial Viability Assessment	
<ul style="list-style-type: none"> Provided critical input in assessing water infrastructure proposals to ensure feasibility and effectiveness. 	<ul style="list-style-type: none"> Prioritized pipeline extensions, storage upgrades, and network rehabilitation to enhance service delivery. 		<ul style="list-style-type: none"> Ensured the project met commercial lending requirements, securing necessary funding for implementation. 	
D. Public Water Service Improvement	E. Sustainable Development Impact		F. Stakeholder Coordination	
<ul style="list-style-type: none"> Replaced unreliable private water vendors with a sustainable public supply, improving water quality and access. 	<ul style="list-style-type: none"> Aligned the project with long-term urban expansion and water security goals for future resilience. 		<ul style="list-style-type: none"> Facilitated collaboration between technical teams, financial institutions, and public water providers to drive project success. 	

Visuals

1. Project delineation boundary

2. Existing water reticulation network

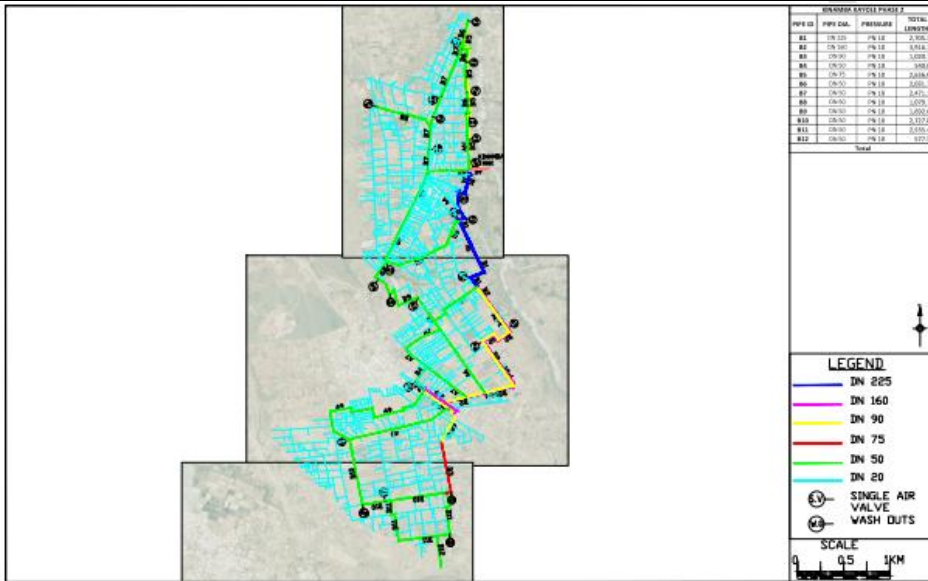
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K2	DN 100	PN 10	1,100.00
K3	DN 100	PN 10	1,100.00
K4	DN 100	PN 10	1,100.00
K5	DN 100	PN 10	1,100.00
K6	DN 100	PN 10	1,100.00
K7	DN 100	PN 10	1,100.00
K8	DN 100	PN 10	1,100.00
K9	DN 100	PN 10	1,100.00
K10	DN 100	PN 10	1,100.00
K11	DN 100	PN 10	1,100.00
K12	DN 100	PN 10	1,100.00
Total			13,200.00

3. Proposed Kinamba Network Reticulation Layout

PIPE ID	PIPE DIA.	PRESSURE	TOTAL LENGTH
M1	DN 40	PN 10	1,100.00
M2	DN 40	PN 10	1,100.00
M3	DN 40	PN 10	1,100.00
M4	DN 40	PN 10	1,100.00
M5	DN 40	PN 10	1,100.00
M6	DN 40	PN 10	1,100.00
M7	DN 40	PN 10	1,100.00
M8	DN 40	PN 10	1,100.00
M9	DN 40	PN 10	1,100.00
M10	DN 40	PN 10	1,100.00
M11	DN 40	PN 10	1,100.00
M12	DN 40	PN 10	1,100.00
Total			13,200.00

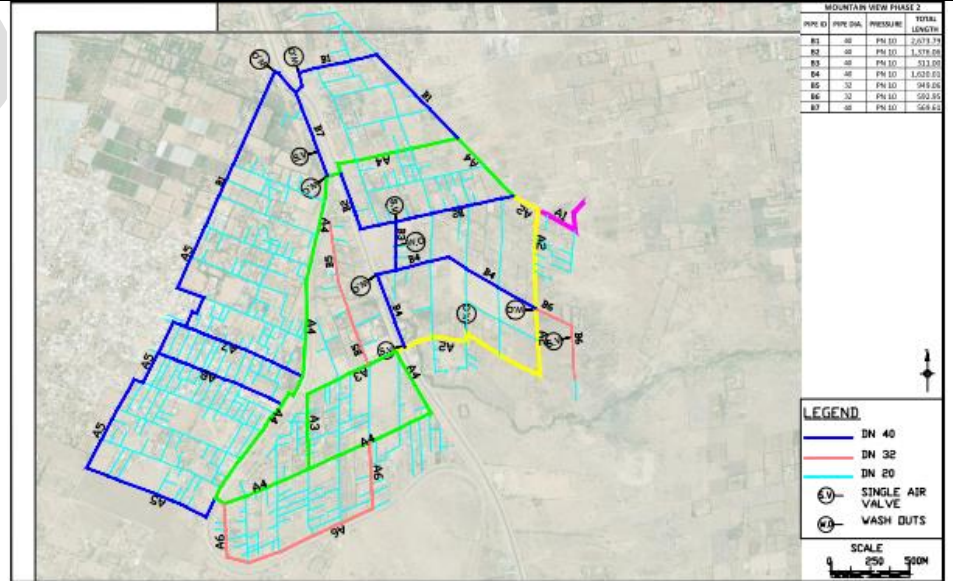
4. Proposed Mountain View Network reticulation Layout

1. Project delineation boundary



3. Proposed Kinamba Network Reticulation Layout

2. Existing water reticulation network

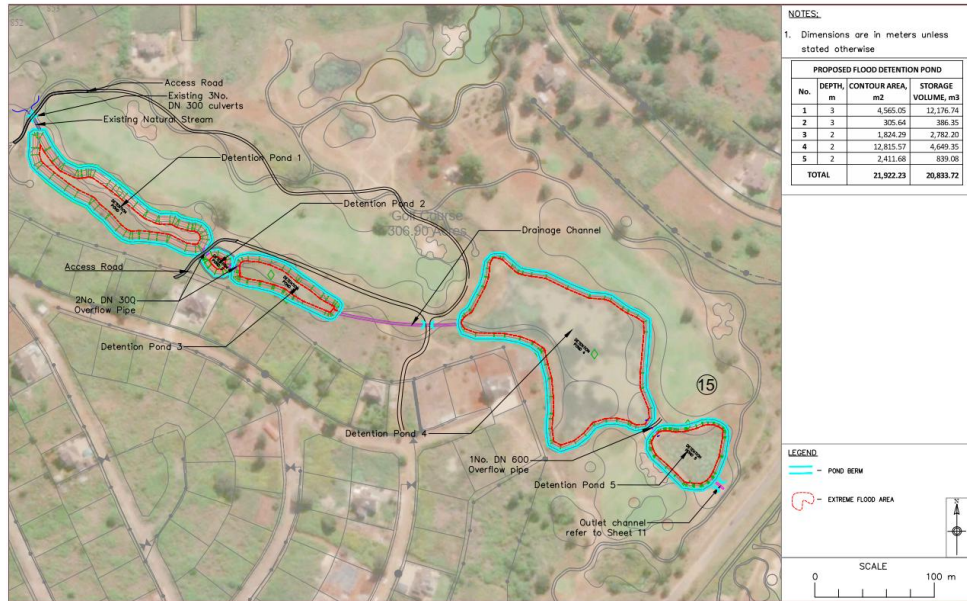


4. Proposed Mountain View Network reticulation Layout

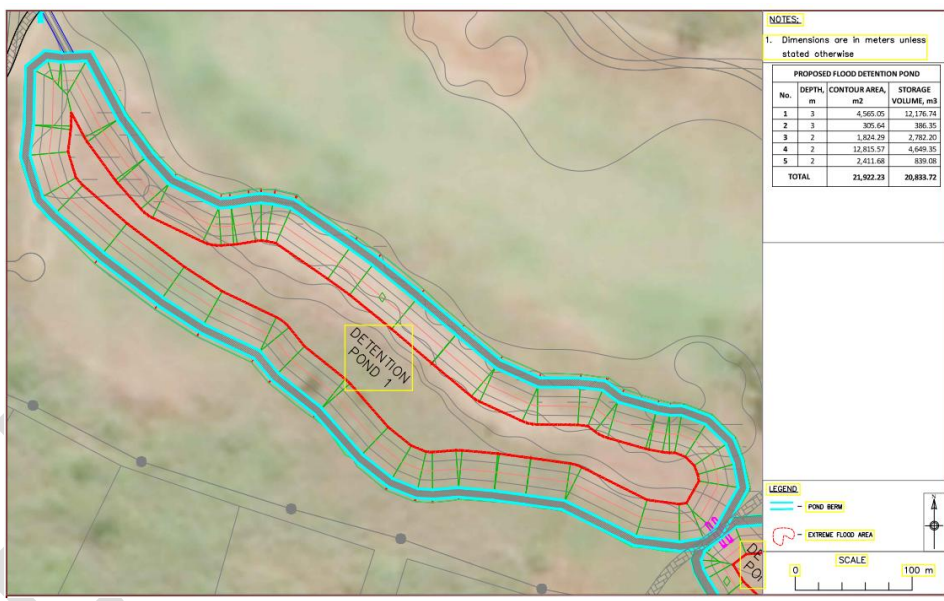
2.6. Project 5: PROPOSED FLOOD MITIGATION PLAN FOR THIKA GREENS PHASE II GOLF FAIRWAY

Umbrella Firm	Client	Location	Duration	Role
Finix Consulting Ltd	Thika Greens Limited (TGL)	Kenya	Oct. 2024 – Nov. 2024	Asst. WASH Consulting Engineer
Key Challenges				
• <i>Insufficient Pond Capacity</i>	• <i>Inadequate Drainage and Overflow Systems</i>	• <i>Complex Hydrology</i>	• <i>Environmental and Safety Concerns</i>	
Responsibilities				
• Project Planning and Design: Conducted assessments of existing infrastructure and designed a sequential pond system with expanded capacity, improved overflow control, and upgraded drainage structures.	• Hydrological Analysis: Analysed rainfall, streamflow, and sediment inflow to determine flood volumes and applied the Richards Method for a 1 in 10-year storm event.		• Construction Oversight: Supervised the construction of ponds, spillways, and drainage channels, ensuring compliance with design and safety standards.	
Achievements				
Successfully designed a sequential pond system with increased storage capacity, capable of handling a 1 in 10-year flood event, while implementing controlled spillways and upgraded outlet channels to effectively manage excess water and reduce overflow risks. Expanded and deepened five ponds, increasing total storage capacity from 10,268.99 m ³ to 20,852.72 m ³ , addressing the floodwater deficit and ensuring reliable flood mitigation. Additionally, ensured minimal environmental impact by preserving natural vegetation and wildlife habitats, while maintaining strict safety protocols during construction.				
Key Contributions:				
G. Technical Design and Documentation:	H. Reporting and Coordination		I. Field Visit	
• Technical Expertise: Applied hydrological and hydraulic analysis to design a robust flood mitigation system capable of handling extreme weather events. • Innovative Solutions: Proposed a sequential pond system with controlled overflow mechanisms, optimizing limited space and improving floodwater management.	• Project Management: Led the project from assessment to implementation, ensuring timely completion and adherence to design specifications. • Stakeholder Engagement: Collaborated with contractors, engineers, and stakeholders to ensure the project met its objectives and addressed community concerns.		• Sustainability Focus: Incorporated environmentally friendly practices, such as preserving natural vegetation and minimizing sediment inflow, into the design and construction process.	

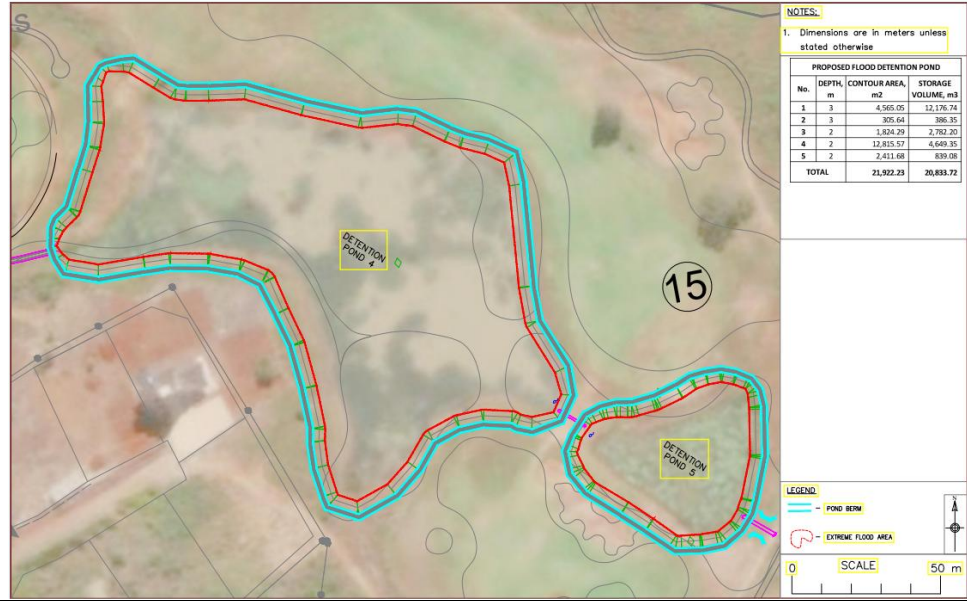
Visuals



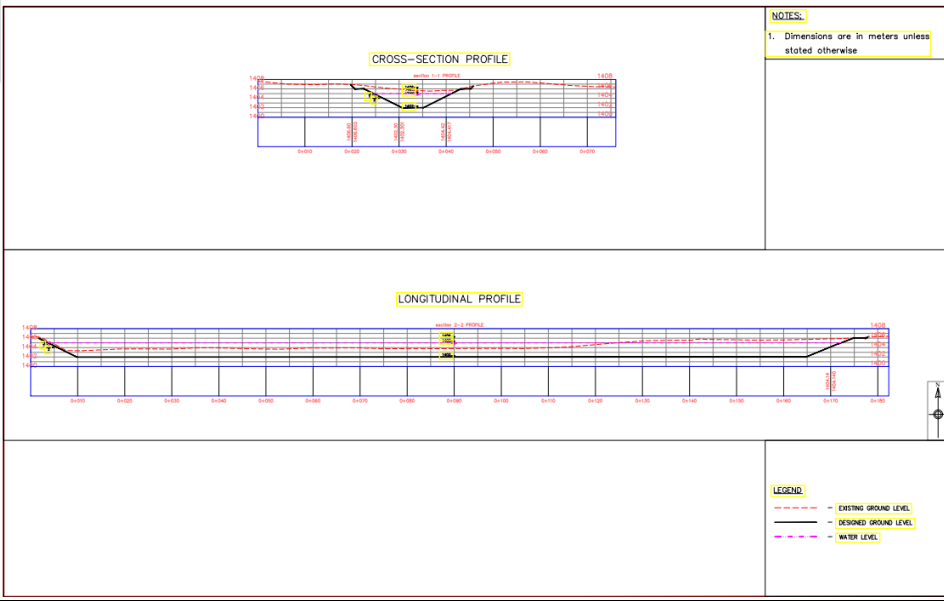
1. General layout



2. Pond plan



3. Pond plan



4. Profile section

V. References

3. References

ENG. FRDRICK KANGOGO

REGIONAL ENGINEER

eWATERSERVICES.

Mobile: +254 708198804

Email: fredrick.kangogo@ewater.services

Engineer Fredrick Kangogo is the current regional engineer and my supervisor at eWATERSERVICES, where I have been working with him as an ARE under his supervision from May 2025 to date on several projects in laikipia county, some of which are listed above.

ENG. MOSES O. OTIENO

MANAGING DRECTOR, NAIROBI KENYA

FINIX CONSULTING LTD

P.O. Box 1088-00517 Nairobi, Kenya

0728 041 675

info@finixconsultingltd.com

Engineer Moses Otieno is my current director and manager at Finix Consulting Ltd, where I have been working under his supervision from 2021 to date on several projects, some of which are listed above.

ROBERT MNERIA MNYOLMO

PROJECT LEAD ENGINEER, NAIROBI KENYA

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0703 135 550

robertmnyolmo@gmail.com

Robert Mnyolmo is the project lead engineer at Finix Consulting Ltd. In over 80% of the projects, I have undertaken with Finix Consulting Ltd, I have worked closely with him to ensure successful completion.