



JOB TITLE: AS-BUILT REPORT

SITE NAME: KARATINA O.H RELOCATION

CONTRACTOR: CALIKEN NETWORKS E.A LTD

DATE: 25TH MAY 2025



KEY

Date
Name
Subject
Co-signature

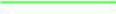
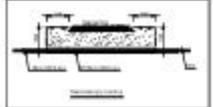


PRD
FOR



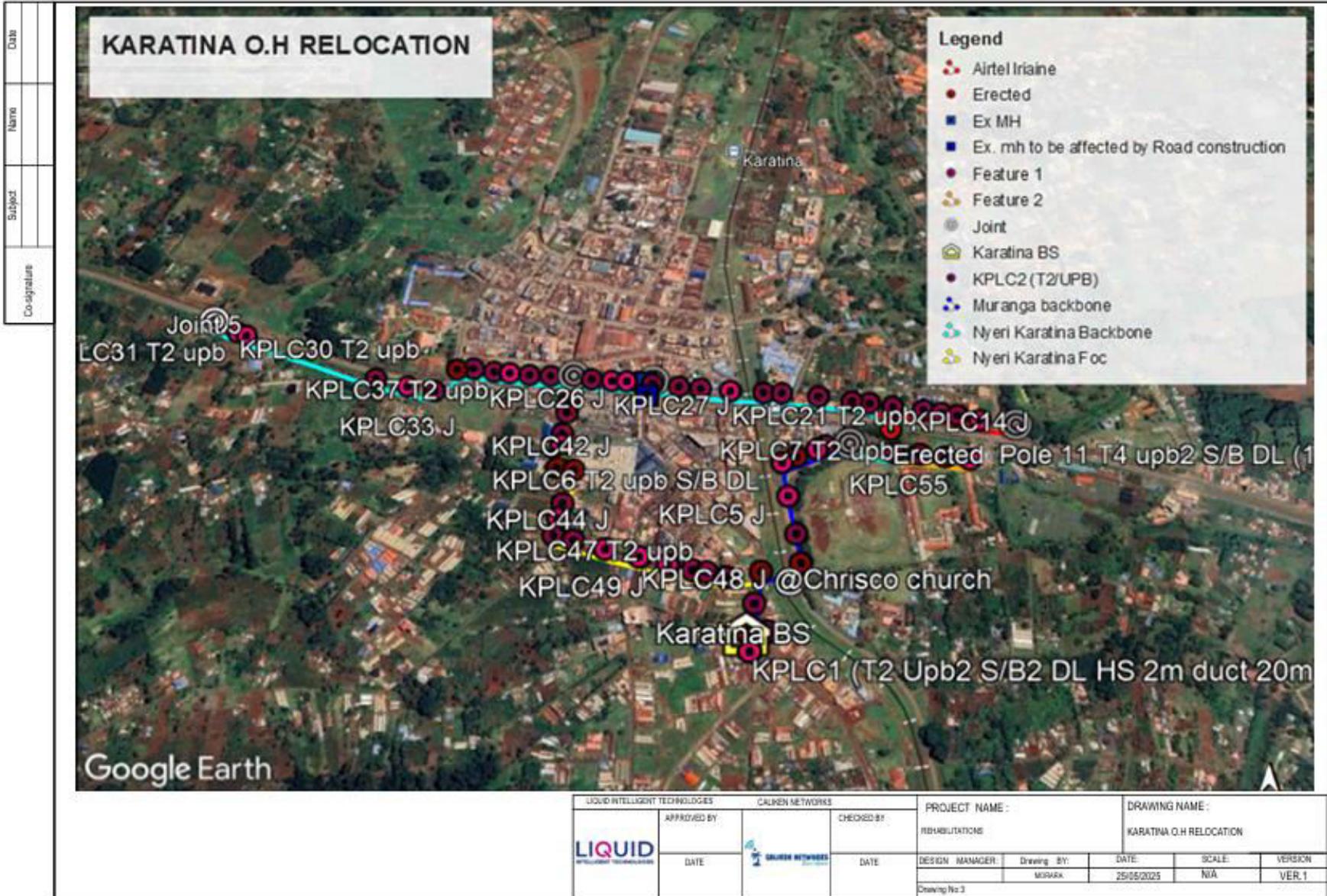
FIBER OPTIC WORKS
KARATINA O.H RELOCATION

KEY

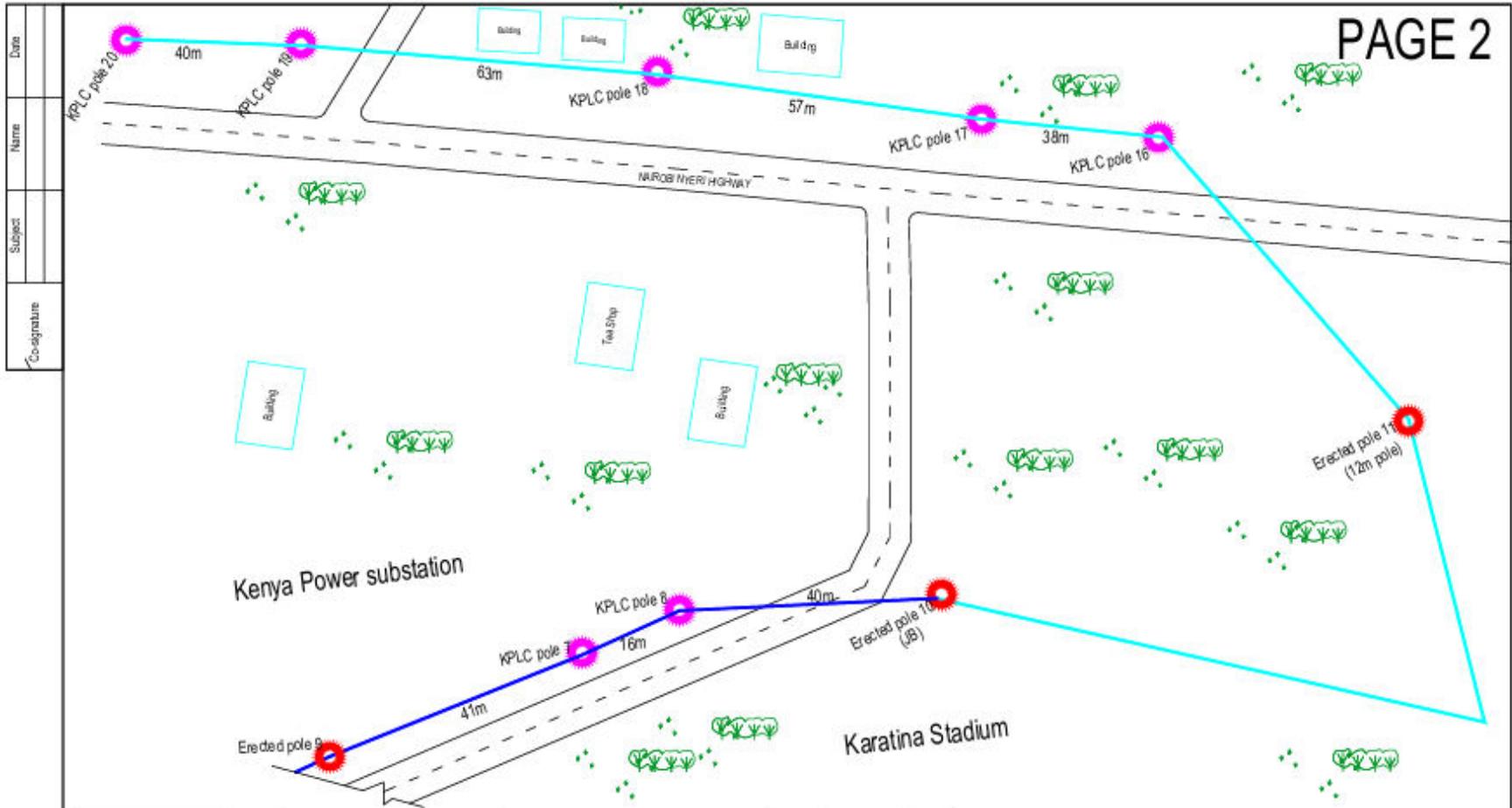
Date	Name	Subject	Co-signature						
					New Route		A Drawing connect		Groove
					Existing Duct		Cable reservation in man hole		Electric line
					Handhole		Label for special case		Railway
					Existing manhole		Tree		Drainage
					New Manhole		Dry land		mountain or hill
					Existing Pole		Hurst		Road and street
					Proposed Pole(P.P)		Grass		Under construction road
					OFC joint		Building		Pond or lake
					MIDSPAN LOOP (10meters length for maintenance) INSIDE MANHOLE		Concrete bridge		Compass
					SPLICE LOOP (15meters each side of OFC) INSIDE MANHOLE		metalic bridge		GPS
					Power cable		Culvert		Fence
					Internet cable (CAT6)		River		Oil site
					Existing equipment		Swamp		Tower
					New equipment				
					RC				

LIQUID INTELLIGENT TECHNOLOGIES		DALZEN NETWORKS		PROJECT NAME : REHABILITATIONS			DRAWING NAME : KARATINA O.H RELOCATION		
APPROVED BY	DATE	CHECKED BY	DATE	DESIGN MANAGER	Drawing BY:	DATE:	SCALE:	VERSION	
					MORAKA	25/05/2025	N/A	VER.1	
				Drawing No:2					

MAP



DESIGN



Date	
Name	
Subject	
Co-signature	

Route	Route	Break and recover road surface				OSP Soil Profile				ISP SCOPE			Joint	Warning	Manhole	PVC	ADSS Scope									
km	km	ASP	CCN	Sts	Cable	Tar	HS	SR	HR	U-Pipe (pcs)	Pipe (m)	Tracing (pcs)	Box(pcs)	Sign	(pcs)	(Pcs)	P/P (8m)	P/P (10m)	P/P (12m)	KPLC Poles	Earlth Poles	Span/OP	Storage	Access	ADSS	Back
4520	31	0	0	0	0	0	18	0	0	0	0	0	0	18	0	0	1	9	1	55	0	3624	12	896	4520	140

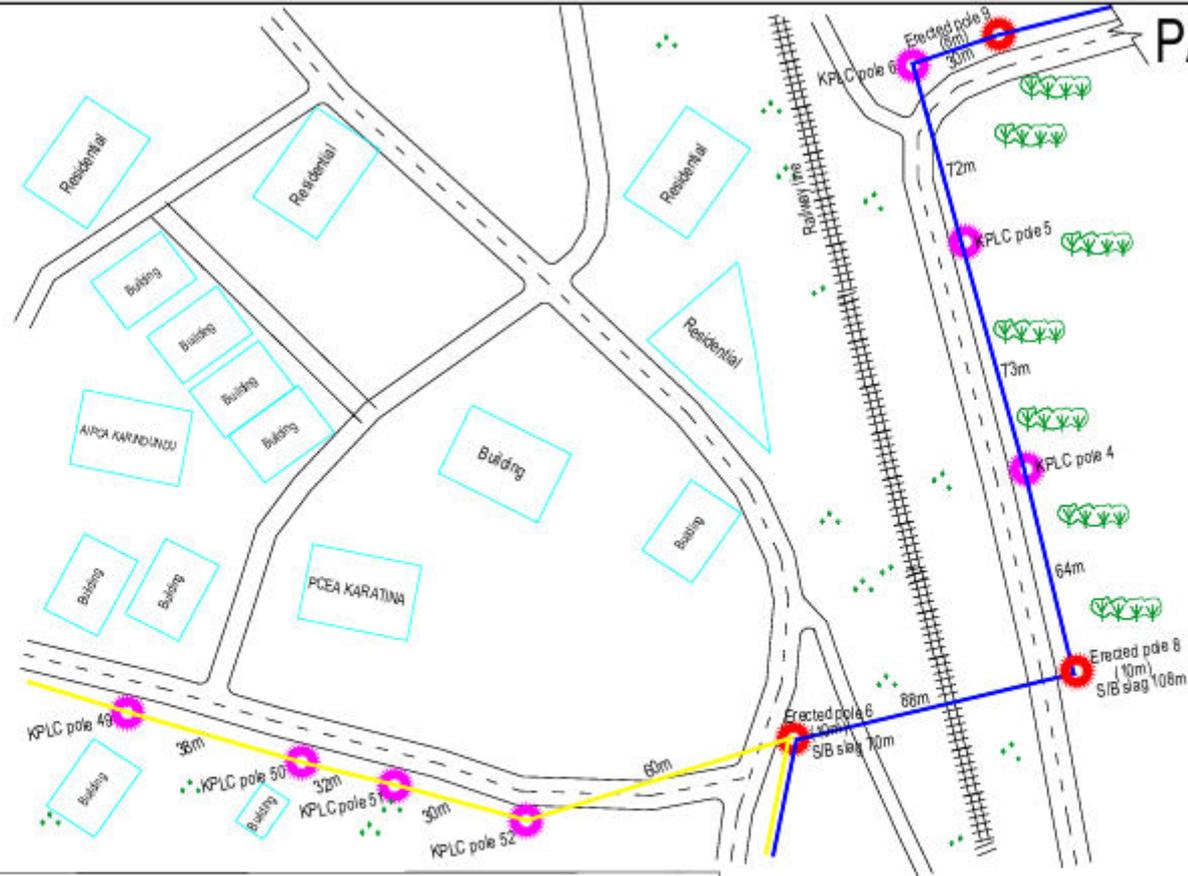
HDFB110			Concrete		1 way		2 way		Core Delling		Open window		BOSAL Works		FOC Size		
Threading	Window	Road	Leveling	More	Excavating	Trenching	Breaking	Breaking	Open window	Alpine	Under	48C	24C	Alpine	Under	48C	24C
0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0	3920	600

LIQUID INTELLIGENT TECHNOLOGIES		CALIKEN NETWORKS	
APPROVED BY		CHECKED BY	
DATE		DATE	

PROJECT NAME :		DRAWING NAME :	
REHABILITATIONS		KARATINA OJ RELOCATION	
DESIGN MANAGER:	Drawing By:	DATE:	SCALE:
	WOKKA	25/05/2025	N/A
Drawing No:3		VERSION	VER.1

DESIGN

Date	
Name	
Subject	
Signature	



Route	How	Break and recover cost surface	OSP Soil Profile			ISP SCOPE			Joint		Manning	Manhole	PVC	ACCESS											
Survey	Clear	ASP	CCM	Slab	Cable	Tar	HS	SR	HR	CPipe	Flt	Tr/Slab	Box	Box	Pipe	FF	FF	FF	KPLC	ELLIT	Lower	Storage	ACCESS	ACCESS	pull back
4520	31	0	0	0	0	0	18	0	0	0	0	0	18	0	0	1	0	1	55	0	3624	12	696	4520	140

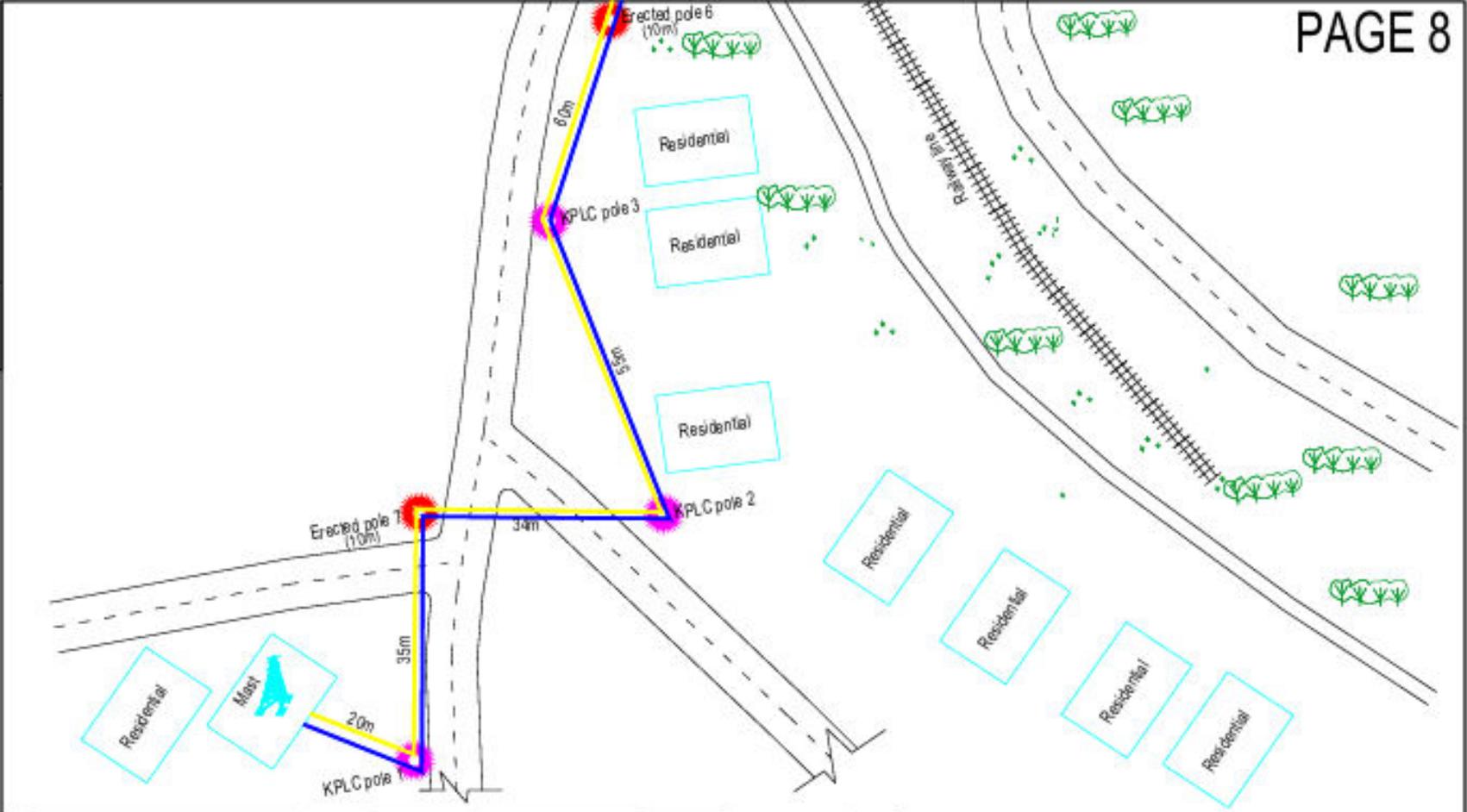
HOPEB ID		Concrete		1 way		2 way		Core Cutting		BOSAL		FDC	
Transition	Change	envelop	Slab	Micro	Existing	cutting	cutting	cutting	cutting	Open	Work	45C	24C
0	0	0	0	0	0	36	0	0	0	0	0	3920	600

LIQUID INTELLIGENT TECHNOLOGIES		CALIBRE NETWORKS	
APPROVED BY	DATE	CHECKED BY	DATE

PROJECT NAME :		DRAWING NAME :	
REHABILITATIONS		KARATINA D.H RELOCATION	
DESIGN MANAGER:	Drawing BY:	DATE:	SCALE:
	MURUKA	25/05/2025	N/A
Drawing No.3		VERSION	VER.1

DESIGN

Date	
Name	
Subject	
Signature	



Route	Survey	Grade	ASR	CON.	Sub	Cable	Tax	GSP Soil Profile				SD C CODE				Joint	Spanning	Manhole	PVC	ADSS Scope									
								HS	SS	HR	HS	SS	HR	HS	SS					HR	HS	SS	HR	HS	SS	HR	HS	SS	HR
4520	S1	0	0	0	0	0	0	18	0	0	0	0	0	0	18	0	0	0	1	9	1	55	0	3824	12	688	4520	143	

HERC@110		Concrete envelop	1 way splice out	3 way splice out	Cable cladding		Open window in manhole (mm)	BOSAL blocks		FDC Size	
Product	Weight (kg)				Material	Weight (kg)		Material	Top Size		Under Size
0	0	0	0	0	36	0	0	0	0	3820	600

LIQUID INTELLIGENT TECHNOLOGIES		CALPINE ENERGY	
APPROVED BY		CHECKED BY	
DATE		DATE	

PROJECT NAME :		DRAWING NAME :	
KARATINA OH		KARATINA OH RELOCATION	
DESIGN MANAGER	Drawing By	DATE	SCALE
		25/05/2025	N/A
Drawing No:			VER:1

DESIGN

Route survey	Route clean	Break and recover road surface				OSP Soil Profile				ISP SCOPE			Joint Box(pcs)	Warning tape	Manhole (pcs)	PVC (Pcs)	ADSS Scope									
		ASP.	CON.	Slab	Cabro	Tar.	HS.	SR	HR	Gi.Pipe (pcs)	Flex (m)	Trucking (pcs)					P.P (8m)	P.P (10m)	P.P (12m)	Kplc Poles	Ex.LIT Poles	Linear O.H Cable(m)	Storage. B (pcs)	ADSS Slag(m)	ADSS Survey	pull back foc
4520	31	0	0	0	0	0	18	0	0	0	0	0	0	18	0	0	1	9	1	55	0	3624	12	896	4520	140

HDPEΦ110			Concrete envelop	1 way Micro duct	2 way 32mm duct		Core Drilling		Open window in manhole(pcs)	BOSAL Works		FOC Size	
Thrustboring	Bridge/ Drng	Road Cut(m)			Existing duct	Trenching	Breaking wall(pcs)	Breaking ceiling(pcs)		Above 5m	Under 5m	48C Foc	24C Foc
0	0	0	0	0	0	36	0	0	0	0	3920	600	

POLE PITS MEASUREMENTS








Pole pit 9
14.04.2025 11:00
- 48319, 37.12411
Next to Mathai Super Market, Karatiga




Pole pit 5
14.04.2025 12:14
- 48403, 37.12868
G48H199J, Karatiga

ERECTED POLES



15.04.2025 15:04
-48252, 37.12223
Nyeri - Karatina Highway, Karatina



16.04.2023 14:15
488 92 37 12861
G48H+H9J, Karatina



17.04.2025 09:20
- 48444, 37.12418
G48F+9P7, A2, Karatina



18.04.2025 11:34
48401, 37.12863
G48H+H9J, Karatina



16.04.2025 09:19
-48245, 37.12225
G49C+4WQ, Kirigu Primary School Rd, Karatina



CABLE PULLING STRINGING



17.04.2025 09:20
-48444, 37.12418
C48E+007, A2, Keratina



18.04.2025 10:00
48417_37.12944
G48H+GOV, Karatina



16.04.2025 13:44
-48376,37 12922
G48H+GOV, Karatina



15.04.2025 15:38
48183_37_11843
G499+5F4, Karatina



17.04.2025 10:22
- 48320, 37.12408
Next to Mathai Super Market, Karatina



 **SAKURA NETWORKS**

17-04-2025 10:08
48396.37.12410
G48F+9P7, A2, Karatina



17.04.2025 13:21
-48502, 37.12757
G48G+3JH, Karatina



15.04.2025 15:03
-48240, 37.12226
G49C+4WQ, Kirigu Primary School Rd, Karatina



15.04.2025 15:49
48196, 37.11854
G499+5F4, Karatina



17.04.2025 14:52
48686, 37 12702
Industrial street, Karatina



17.04.2025 12:48
-48401, 37.12828
G48H+GOV, Karatinga





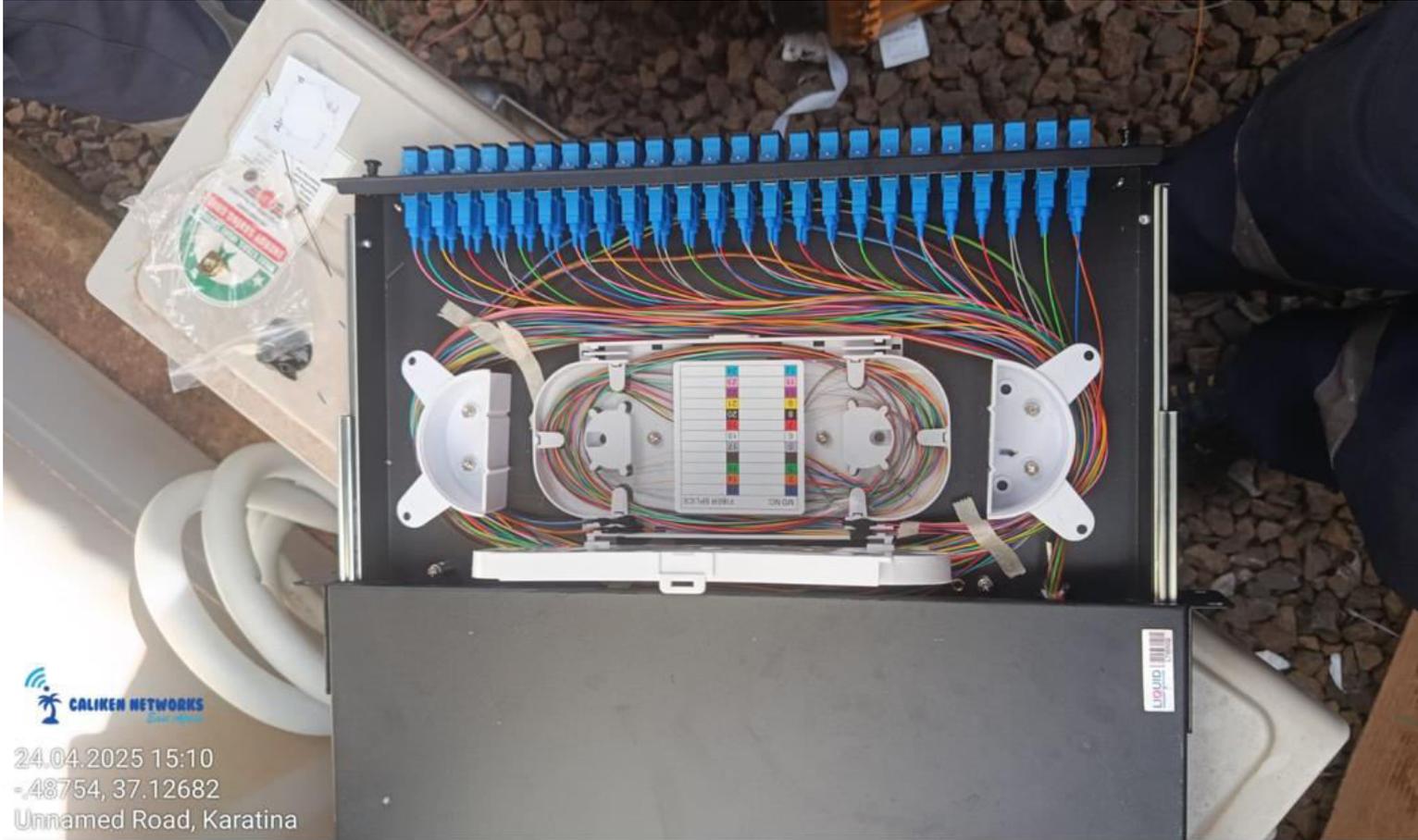
15.04.2025 10:42
-48325, 37.12572
G48G+G9G, Karatina

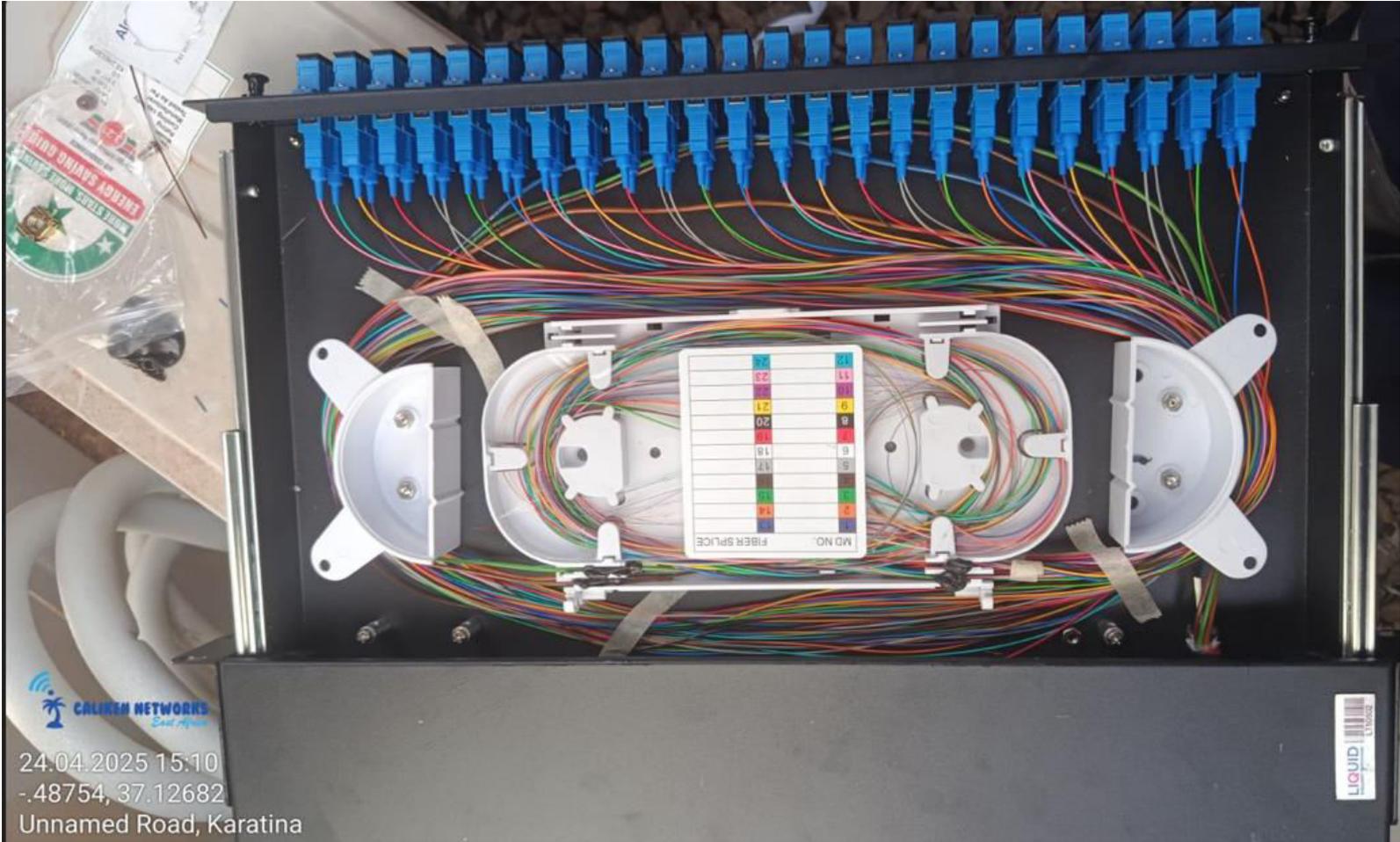
STORAGE BRACKETS





SPLICING AT ODF





RACK



RECEIPT

19 - COUNTY GOVERNMENT OF NYERI



Website: www.nyeri.go.ke
P.O Box: 1112-10100 Nyeri Kenya
Email: info@nyeri.co.ke
Phone: +254 714 952 473



OFFICIAL RECEIPT

Receipt No. 019100A202504/0000227 09-Apr-2025 11:08



CCA2504-00022 (09-Apr-2025 10:43) LIQUID TELECOMMUNICATIONS KENYA CABLE STRINGING ON EXISTING POLES AT KARATINA OVERHEAD REHABILITATION (3513 METERS) [Nyeri Town]

1 Way-leave for poles(other than KPLC) - Per meter per annum	175,650.00
Total	175,650.00

Served By: MURIGU JOSEPH KIBIRU

Payments Summary for Receipt No. 019100A202504/0000227, Invoice(s): CCA2504-00022

1 Direct Credit_09 Apr 2025_1140760319 KCB - Revenue Account_Ref:S92064663	175,650.00
Total	175,650.00

COUNTY GOVERNMENT OF NYERI
NYERI TOWN SUB-COUNTY
09 APR 2025
CGNFD - PAID
COUNTY TREASURY

PERMIT



COUNTY GOVERNMENT OF NYERI

When replying please quote
Our reference no and date.

P.O. BOX 1112-10100
NYERI
Email: infrastructure@nyeri.go.ke

DEPARTMENT OF TRANSPORT, PUBLIC WORKS, INFRASTRUCTURE & ENERGY

OUR REF: CGN/DIR/LETT/V/20

DATE: 9th APRIL 2025

LIQUID TELCOM KENYA,
SAMMER BUSINESS PARK,
P.O. BOX 62499- 00200,
NAIROBI

RE: AUTHORITY TO CABLE STRING ALONG EXISTING POSTS AT KARATINA OVERHEAD
REHABILITATION – KARATINA TOWN

Your letter dated 29th JANUARY 2025 on the above subject refers:

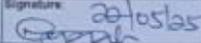
Your application requesting permission to cable sting along existing posts at the above-mentioned site has been considered and approved having paid the relevant fees as per attached receipt dated 26th MARCH 2025

You are therefore authorized to carry out the works subject to adhering to the Conditions below.

1. Obtain clearance from other road agencies where that is applicable.
2. The installation to be done as per the submitted and approved layout plan.
3. Make good the grounds and reinstate to working conditions all other facilities that may have been tampered with upon completing the works and leave the site clean and tidy.
4. Notify this office when commencing and allow inspection compliance with the above condition.


Eng. Solomon Ngatia Nderitu
Ag. Director Roads and Transport
TRANSPORT, PUBLIC WORKS, INFRASTRUCTURE AND ENERGY

SITE ACCEPTANCE

 LIQUID <small>INTELLIGENT TECHNOLOGIES</small>				
AERIAL ACCEPTANCE FORM				
Site Name: <u>KARATINA O.H. RELOCATION</u>				
DATE: <u>21/05/25</u>	Section: <u>KARATINA</u>	Distance: <u>4500m</u>		
	From: <u>-0.425677</u>	To: <u>0.467330</u>		
No.	DESCRIPTION	ACCEPTED		ACCEPTED WITH REMARKS (Minor Deficiencies)
		YES	NO	
1	Height of Poles (12m, 10m, 8m)	✓		<u>8m - 1pc, 10m - 2, 12m - 10</u>
2	Spacing of Poles (x 60m) (x 150)	✓		
3	Depth of pit (pole length / 2)	✓		
4	Stay Support	✓		<u>2pc</u>
5	Tension Sets	✓		<u>102 pc</u>
6	Cable Loop/ Slack management	✓		<u>12</u>
7	Compaction / Reinforcements	✓		
8	Clearance from Power Facilities	✓		
9	Cable Tensioning & Sag	✓		
10	Overall Quality Performance Score:	<u>3</u>		
GENERAL REMARKS <u>IMPRESSIVE WORK DONE</u>				
<u>SITE INSPECTED & ACCEPTED.</u>				
<u>MEETS HIT STANDARDS</u>				
<small>The Scope of Work contracted has been satisfactorily completed and is in accordance with the contract specification and drawings unless otherwise stated under "ACCEPTED WITH REMARKS"</small>				
COMPANY: <u>CALIXON NETWORK</u>		Name: <u>MARANDA KENNEDY</u>	Signature: 	
LIQUID INTELLIGENT TECHNOLOGIES		Name: <u>ROBERTS MURPHY</u>	Signature: <u>20/05/25</u> 	
PERFORMANCE	PERFORMANCE RATING	ACTION		
4	Excellent	Exceeds quality expectations		
3	Good	Meets quality expectations		
2	Fair	Accepted with minor deficiencies		
1	Poor	Major deficiencies observed. Failed Acceptance		

Clearances met
 250m
 240 - 600m
 430 = 392.0