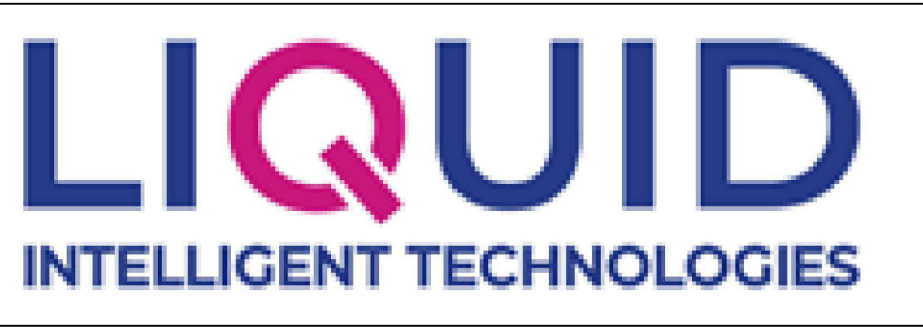


| | | | |
|--------------|--|--|--|
| Co-signature | | | |
| Subject | | | |
| Name | | | |
| Date | | | |
















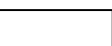













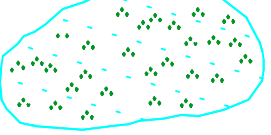


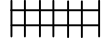




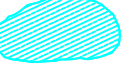

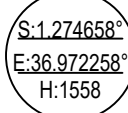

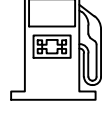

PRD
FOR

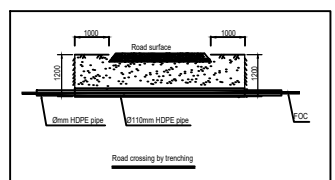


FIBER OPTIC WORKS

KIREGE

| |
|--------------|
| Date |
| Name |
| Subject |
| Co-signature |

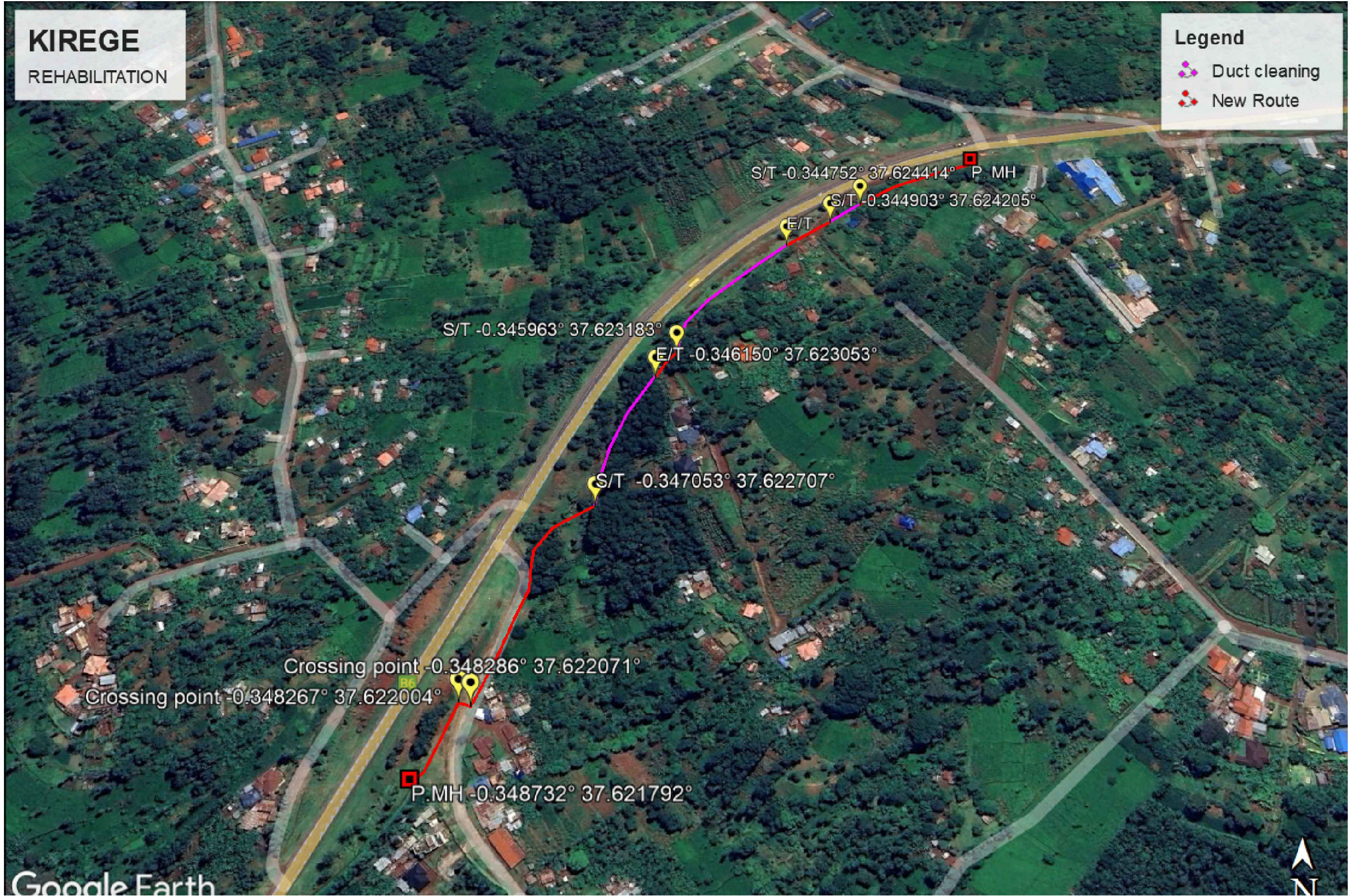
-  New Route
-  Existing Duct
-  Handhole
-  Existing manhole
-  New Manhole
-  Existing Kplc Pole
-  Existing LIT Pole
-  Proposed Pole(P.P)
-  OFC joint
-  MIDSPAN LOOP (10meters length for maintenance) INSIDE MANHOLE
-  SPLICE LOOP (15meters each side of OFC) INSIDE MANHOLE
-  Power cable
-  Internet cable (CAT6)
-  Existing equipment
-  New equipment
-  A Drawing connect
-  Ω10 Cable reservation in man hole
-  Label for special case
-  Tree
-  Dry land
-  Hurst
-  Grass
-  Building
-  Concrete bridge
-  metallic bridge
-  Culvert
-  River
-  Swamp
-  Groove
-  Electric line
-  Railway
-  Drainage
-  mountain or hill
-  Road and street
-  Under construction road
-  Pond or lake
-  Compass
-  GPS
-  Fence
-  Oil site
-  Tower



RC

| | | | | | | | | | |
|---------------------------------|--|------------------|--|----------------------------------|-------------|------------|--------------------------|---------|--|
| LIQUID INTELLIGENT TECHNOLOGIES | | CALIKEN NETWORKS | | PROJECT NAME : REHABILITATION | | | DRAWING NAME : KIREGE | | |
| APPROVED BY | | CHECKED BY | | DESIGN MANAGER: | Drawing BY: | DATE: | SCALE: | VERSION | |
| DATE | | DATE | | | ELIZABETH | 05/07/2024 | N/A | VER.1 | |
| | | | | Drawing No:2 | | | | | |

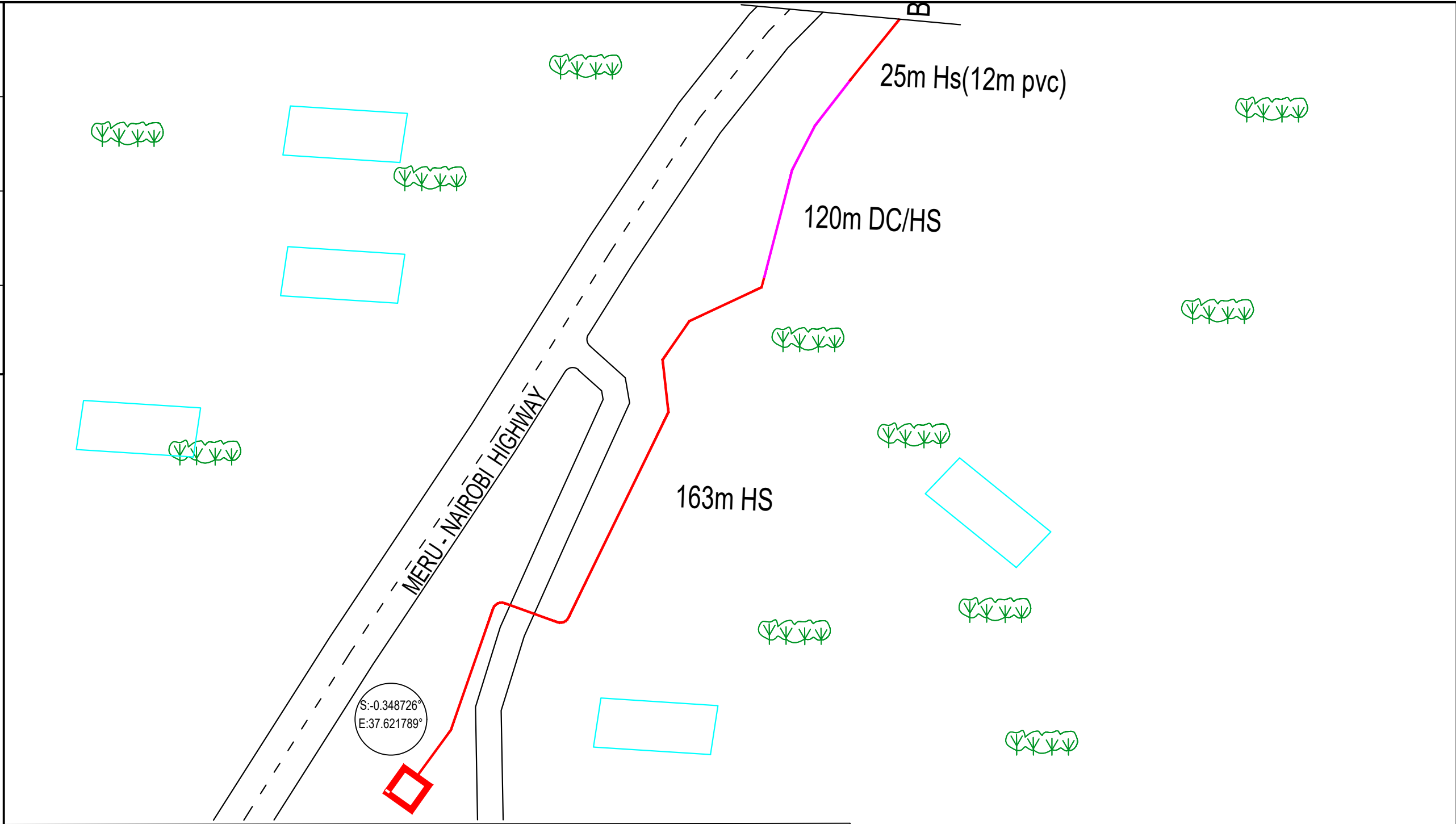
| |
|--------------|
| Date |
| Name |
| Subject |
| Co-signature |



Google Earth

| | | | | | | | | |
|---------------------------------|--|------------------|--|-----------------|-------------|----------------|--------|---------|
| LIQUID INTELLIGENT TECHNOLOGIES | | CALIKEN NETWORKS | | PROJECT NAME : | | DRAWING NAME : | | |
| APPROVED BY | | CHECKED BY | | REHABILITATION | | KIREGE | | |
| DATE | | DATE | | DESIGN MANAGER: | Drawing BY: | DATE: | SCALE: | VERSION |
| | | | | | ELIZABETH | 05/07/2024 | N/A | VER.1 |
| Drawing No:3 | | | | | | | | |

| | | | |
|--------------|---------|------|------|
| Co-signature | Subject | Name | Date |
| | | | |



| Route | | Break and recover road surface | | | | OSP Soil Profile | | | | ISP SCOPE | | | Joint | Warning | Manhole | PVC | ADSS Scope | | | | | | | | | |
|--------|-------|--------------------------------|------|------|-------|------------------|-----|----|----|---------------|----------|----------------|----------|---------|---------|-------|------------|-----------|-----------|------------|--------------|---------------------|-----------------|--------------|-------------|---|
| survey | clean | ASP. | CON. | Slab | Cabro | Tar. | HS. | SR | HR | GI.Pipe (pcs) | Flex (m) | Trucking (pcs) | Box(pcs) | tape | (pcs) | (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 | |
| 715 | 285 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 390 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| HDPEΦ110 | | Concrete envelop | | 1 way Micro duct | 2 way 32mm duct | | Breaking wall(pcs) | Breaking ceiling(pcs) | Open window in manhole(pcs) | BOSAL Works | |
|--------------|------------|------------------|---|------------------|-----------------|-----------|--------------------|-----------------------|-----------------------------|-------------|----------|
| Thrustboring | Bridge/Dmg | Trenching | | | Existing duct | Trenching | | | | Above 5m | Under 5m |
| 0 | 0 | 33 | 0 | 0 | 0 | 840 | 0 | 0 | 0 | 0 | 0 |

| | | | |
|---------------------------------|--|------------------|--|
| LIQUID INTELLIGENT TECHNOLOGIES | | CALIKEN NETWORKS | |
| APPROVED BY | | CHECKED BY | |
| DATE | | DATE | |

| | | | | | |
|----------------------------------|-------------|------------|--------------------------|---------|--|
| PROJECT NAME : REHABILITATION | | | DRAWING NAME : KIREGE | | |
| DESIGN MANAGER: | Drawing BY: | DATE: | SCALE: | VERSION | |
| | ELIZABETH | 05/07/2024 | N/A | VER.1 | |
| Drawing No:4 | | | | | |

| Main Workload | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|-------------|--------------------------------|------|------|-------|------------------|-----|----|----|---------------|----------|----------------|----------------|--------------|---------------|-----------|------------|-----------|-----------|------------|--------------|---------------------|------------------|--------------|
| 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) |
| 715 | 285 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 390 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

| HDPEΦ110 | | | Concrete envelop | 1 way Micro duct | 2 way 32mm duct | | Breaking wall(pcs) | Breaking ceiling(pcs) | Open window in manhole(pcs) | BOSAL Works | |
|--------------|--------------|-----------|------------------|------------------|-----------------|-----------|--------------------|-----------------------|-----------------------------|-------------|----------|
| Thrustboring | Bridge/ Drng | Trenching | | | Existing duct | Trenching | | | | Above 5m | Under 5m |
| 0 | 0 | 33 | 0 | 0 | 0 | 840 | 0 | 0 | 0 | 0 | |