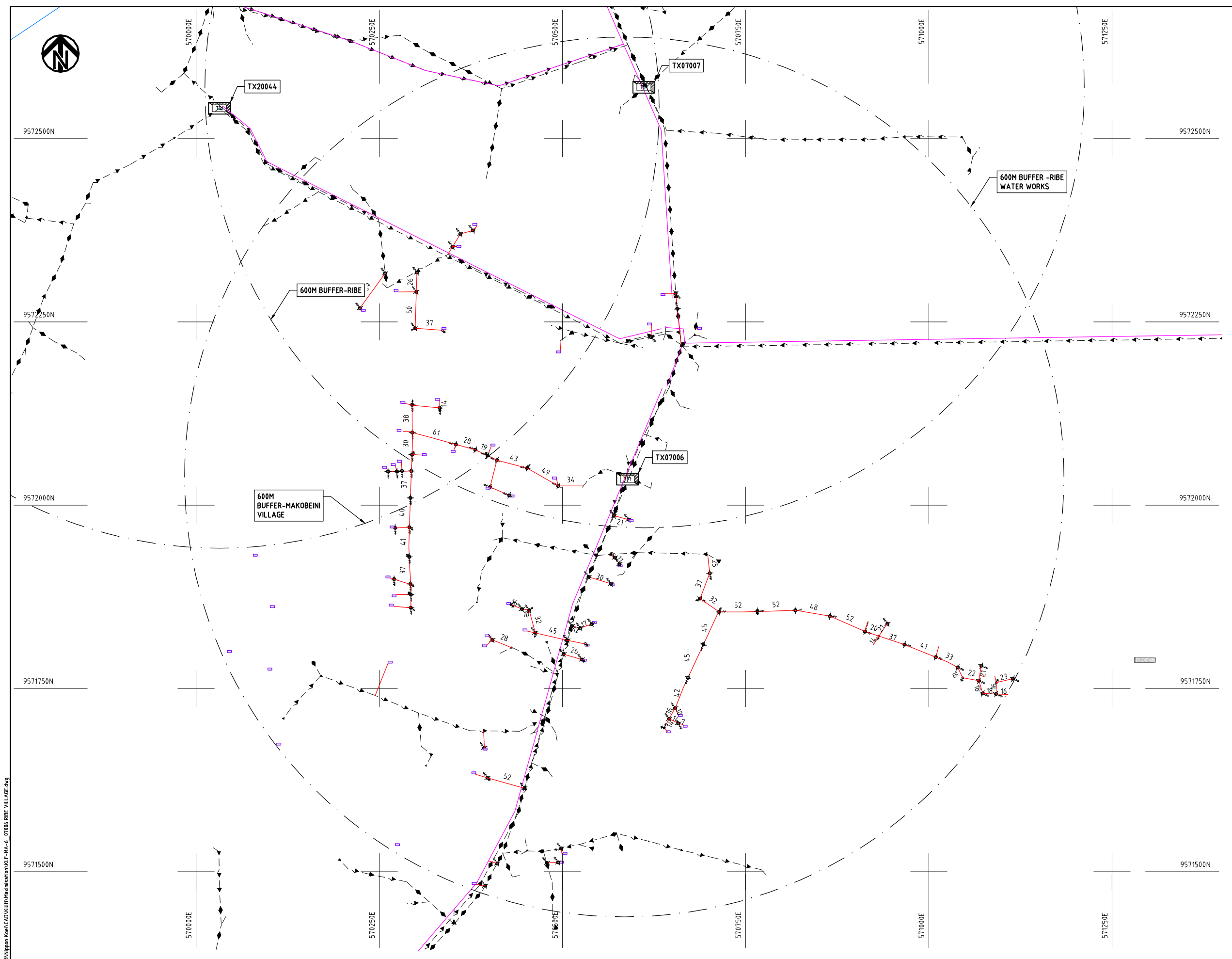
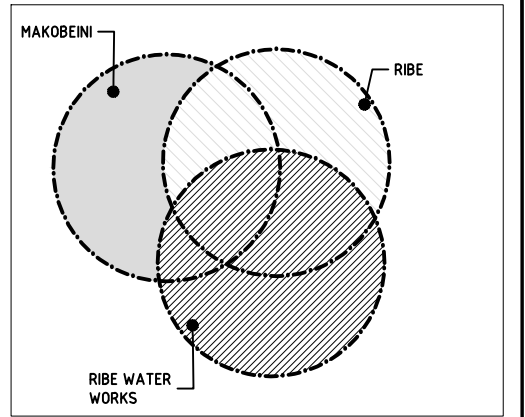


***Kilifi County***

***Maximization***



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.



KEY PLAN

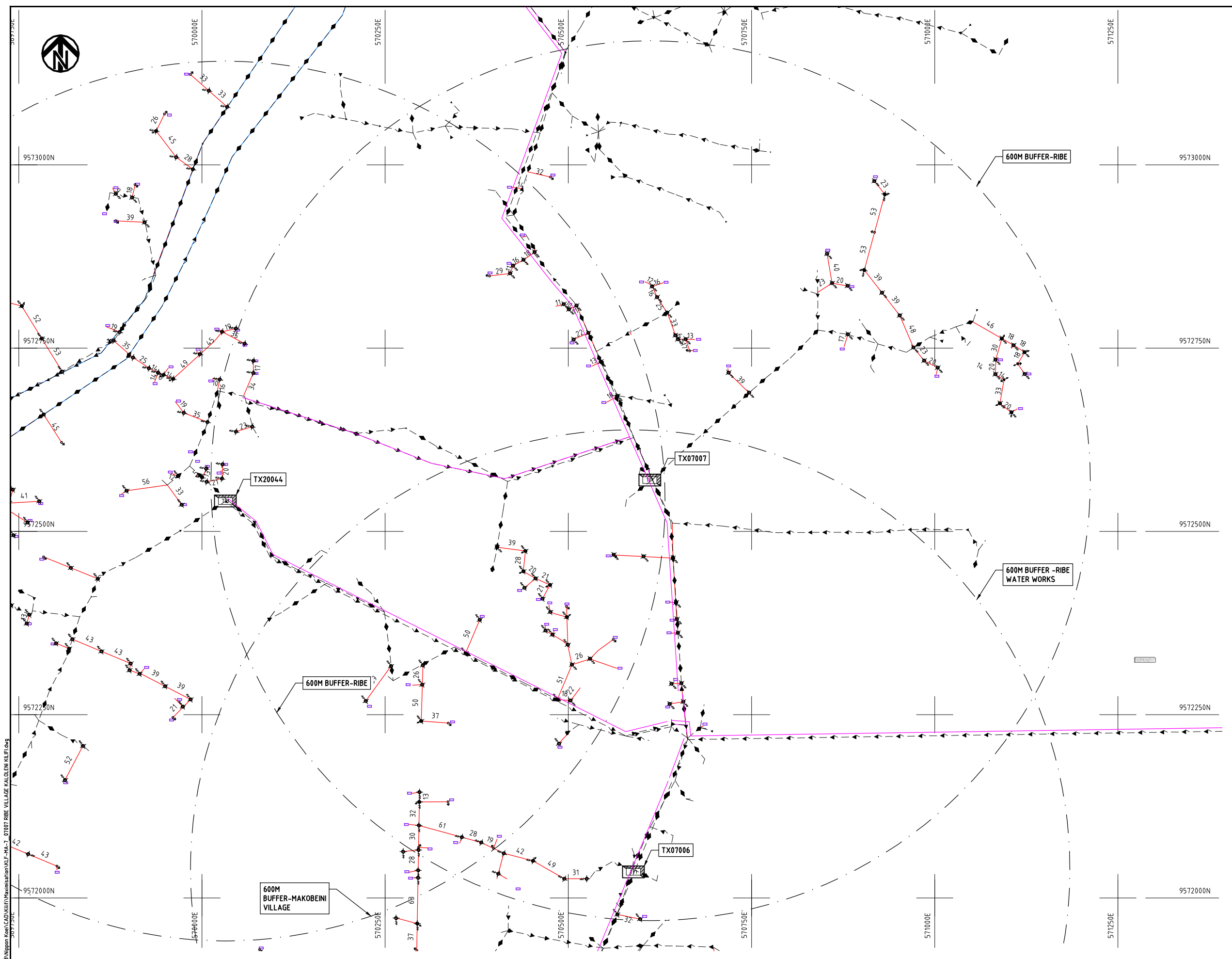
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



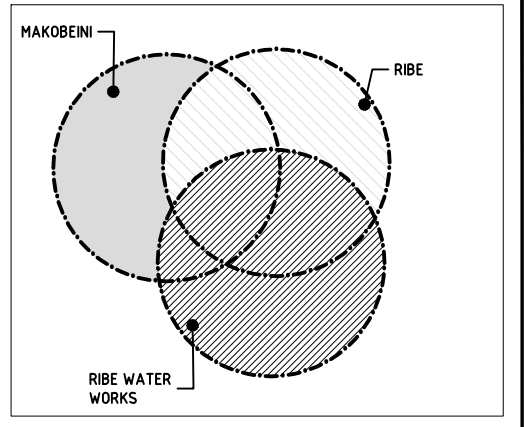
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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07006-RIBE VILLAGE		KLF-MA-6	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.



KEY PLAN

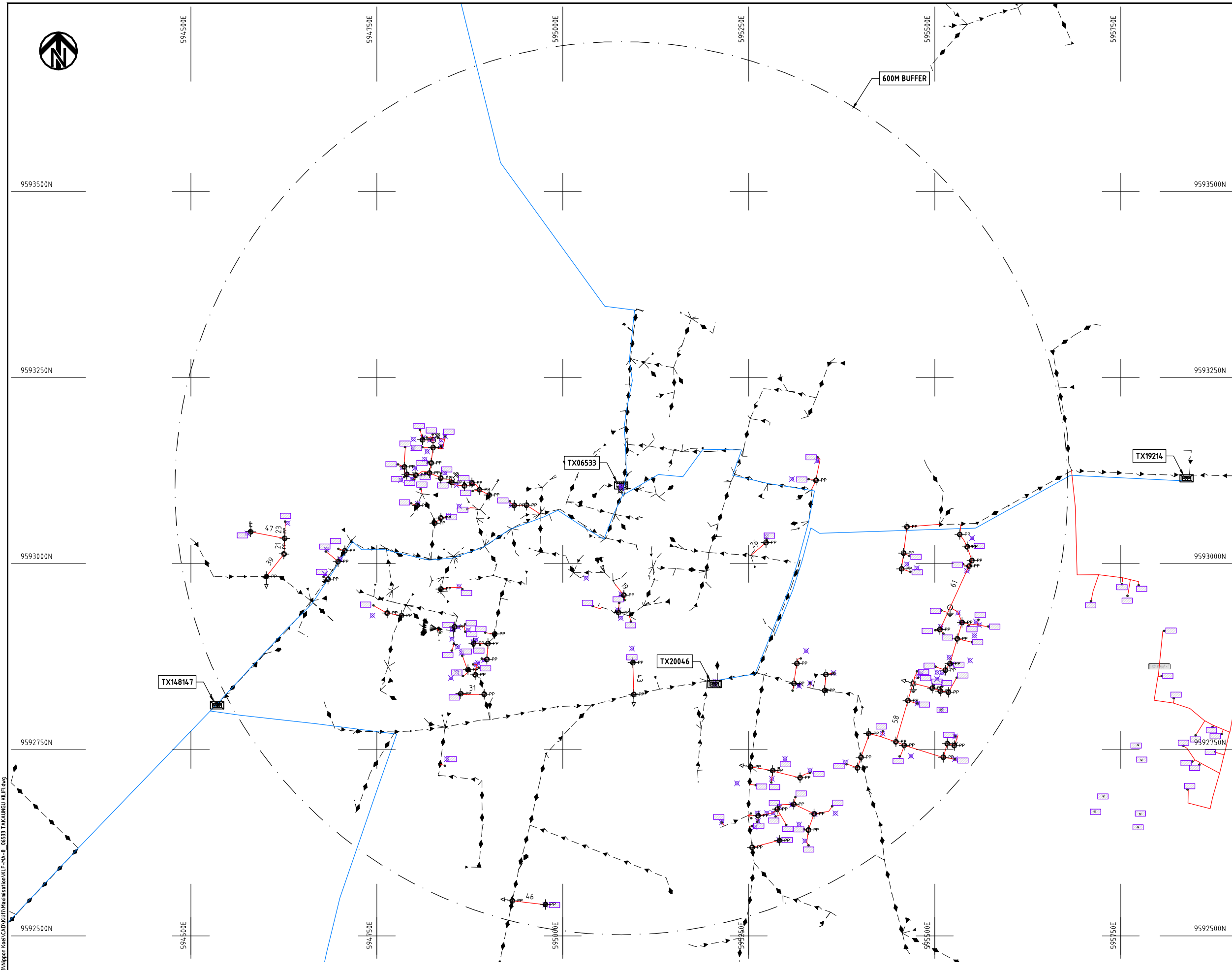
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-7\_01\07 RIBE VILLAGE KALOLENI KILIFI.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07007-RIBE VILLAGE KALOLENI KILIFI		KLF-MA-7	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018



**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 06533 TAKAUNGU KILIFI

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-8	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



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 Oct 28, 2018 - 3:25pm





593500E

593750E

594000E

594250E

594500E

594750E

595000E

959900N

9598750N

9598500N

9598250N

9598000N

593500E

593750E

594000E

594250E

594500E

594750E

595000E

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: KILIFI  
SCHEME: MAXIMIZATION  
PROJECT SITE: 07187 KILIFI TOWN

DRAW. NO.

KLF-MA-9

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

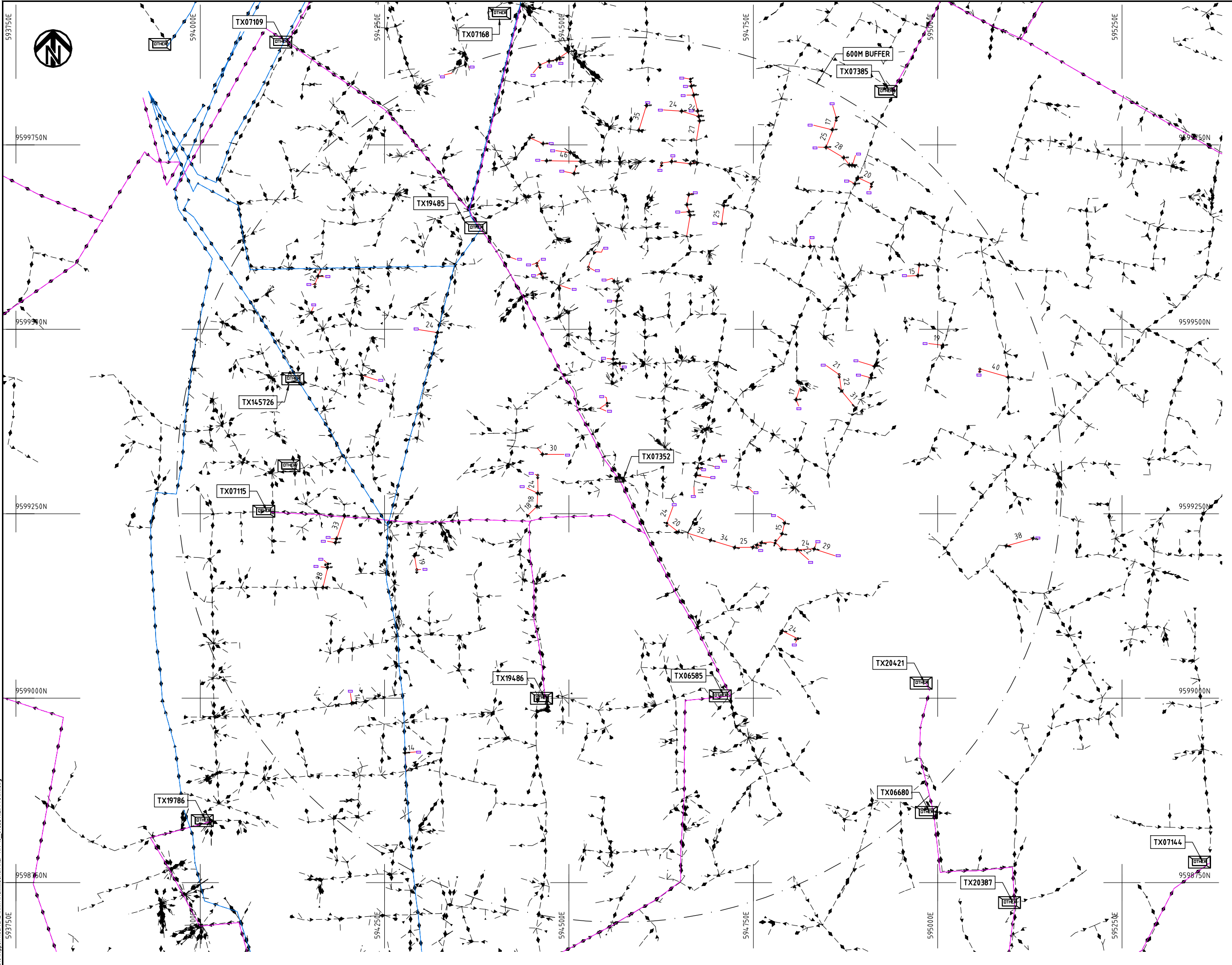
APPROVED BY

Y.TANAKA

DATE

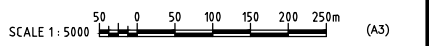
10th SEP 2018

NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

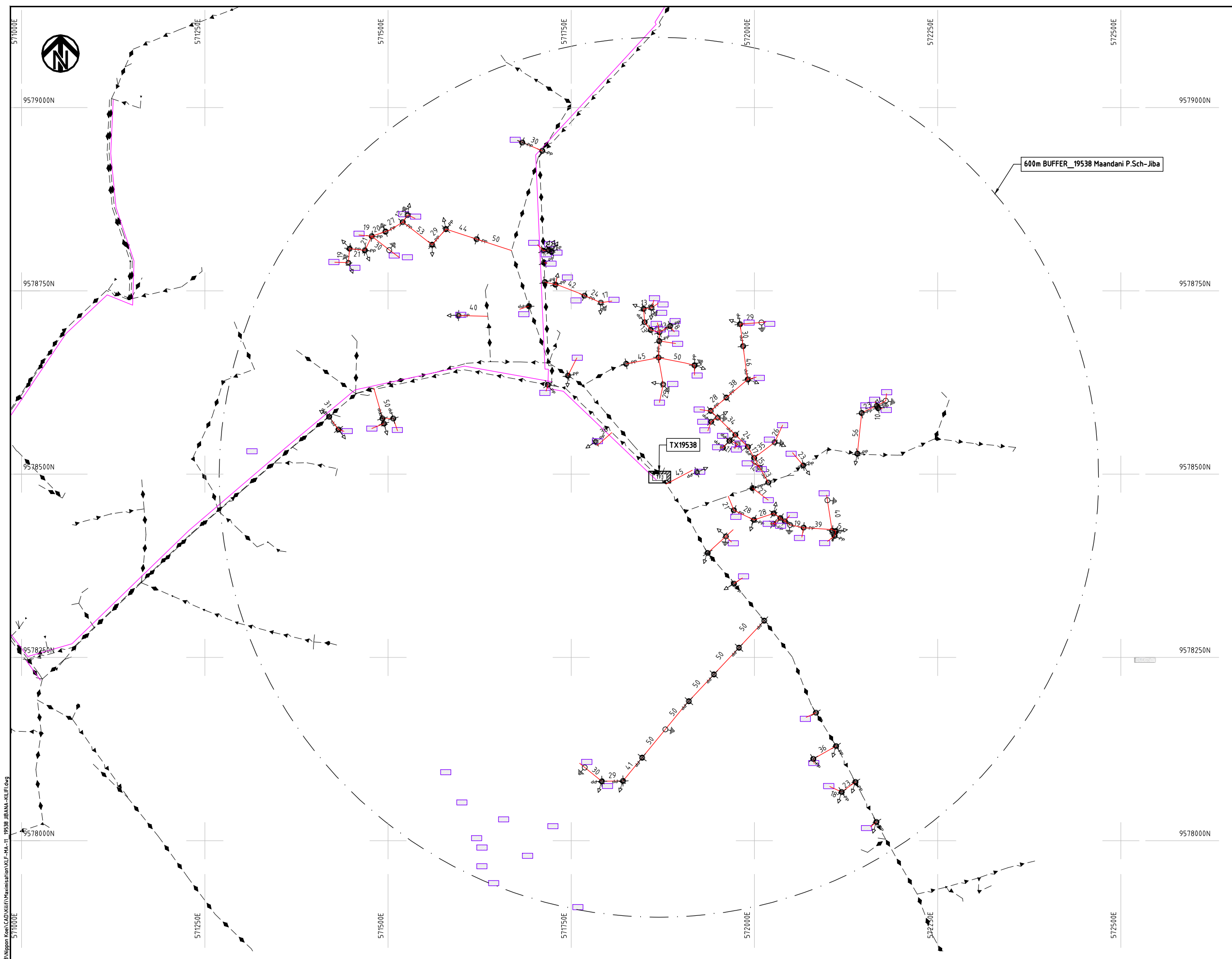
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-10\_07352\_KILIFI\_TOWN.dwg  
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 9599750N  
 595250E  
 9599500N

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07352-KILIFI TOWN		KLF-MA-10	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

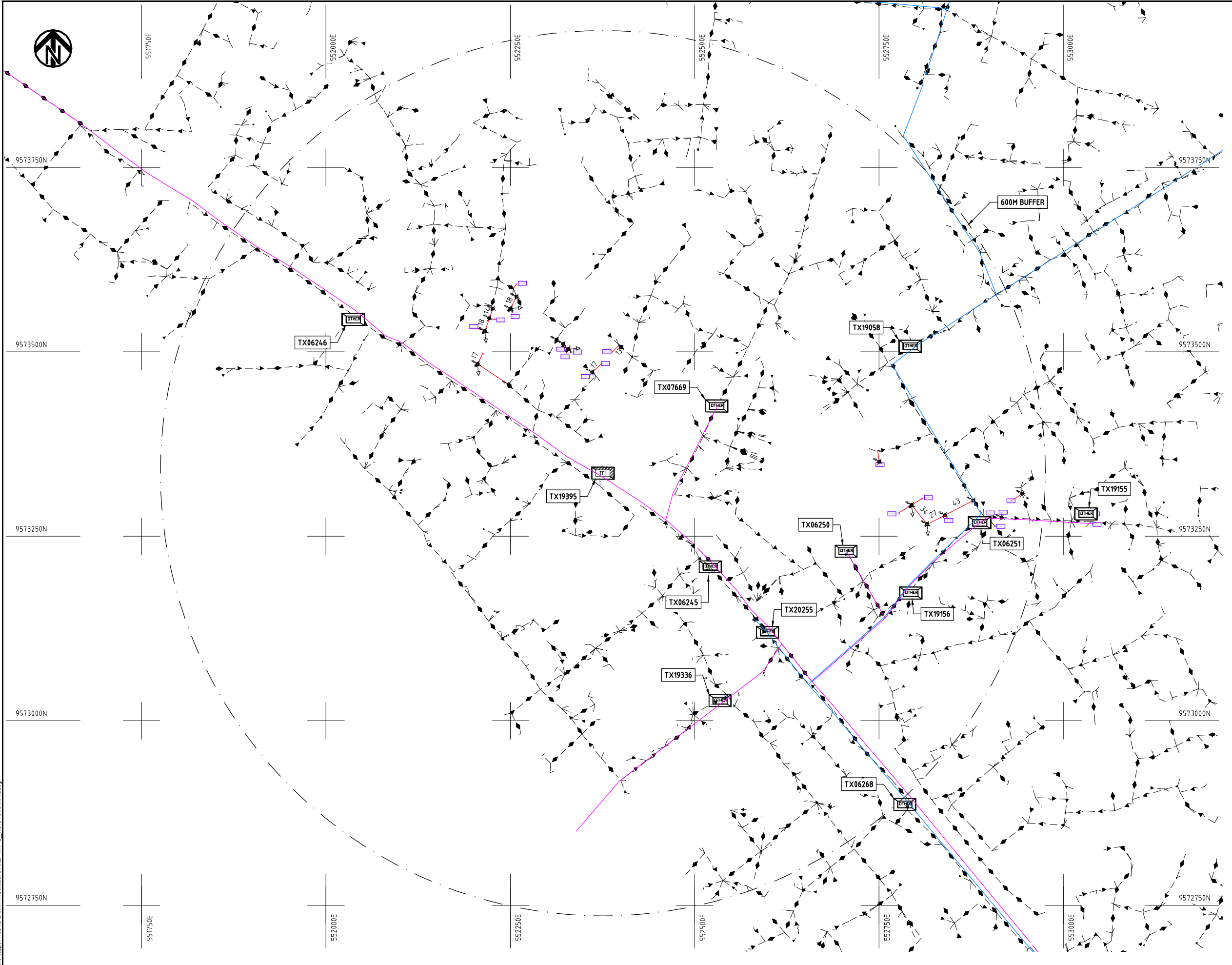
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



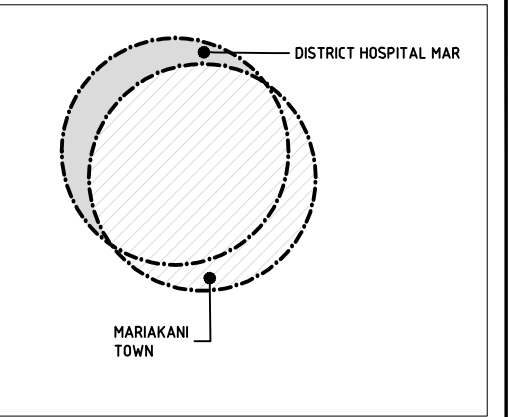
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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-11	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 19538 JIBANA-KILIFI			DATE	10th SEP 2018	



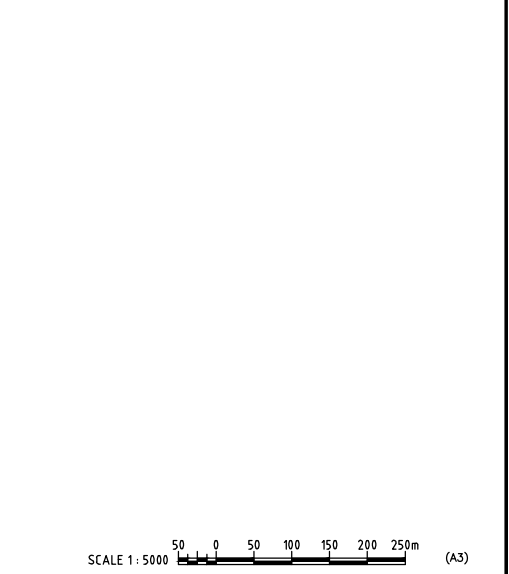


- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.



KEY PLAN

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY

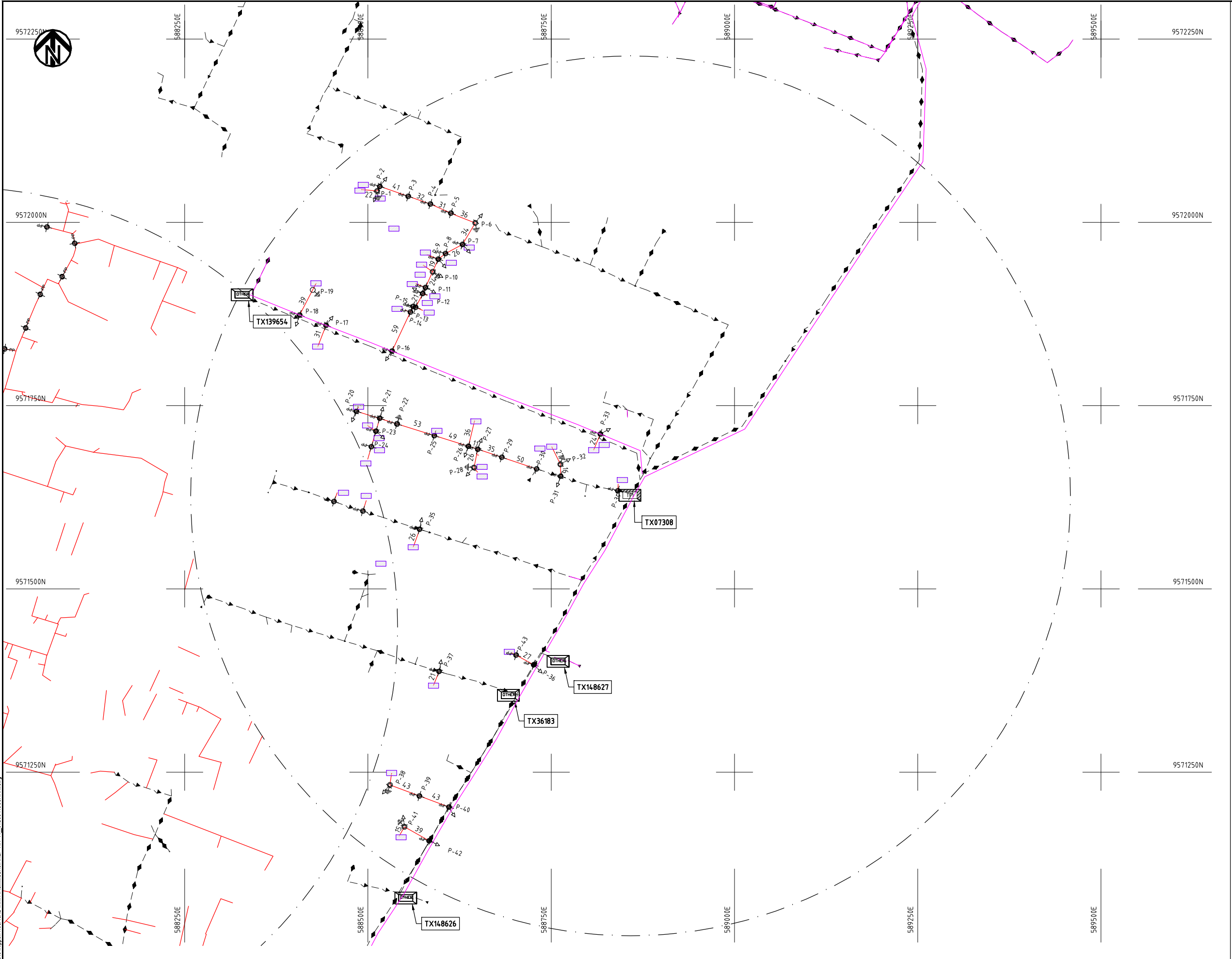


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PROJECT:	<p>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</p>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		<p>COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 19395 MARIAKANI</p>		KLF-MA-13	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018







- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-14\_07308 MUSUMARI.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07308-MUSUMARI		KLF-MA-14	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





9593250N

552250E

552500E

552750E

553000E

553250E

553500E

9593250N

9593000N

9593000N

9592750N

9592750N

9592500N

9592500N

9592250N

9592250N

552250E

552500E

552750E

553000E

553250E

553500E

600m BUFFER\_36147 Mnazi MMwenga Sec Sch.

TX36147

### NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

### LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 (A3)

PROJECT:

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: KILIFI  
SCHEME: MAXIMIZATION  
PROJECT SITE: 36147 MNAZIMWENGA

DRAW. NO.

KLF-MA-15

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

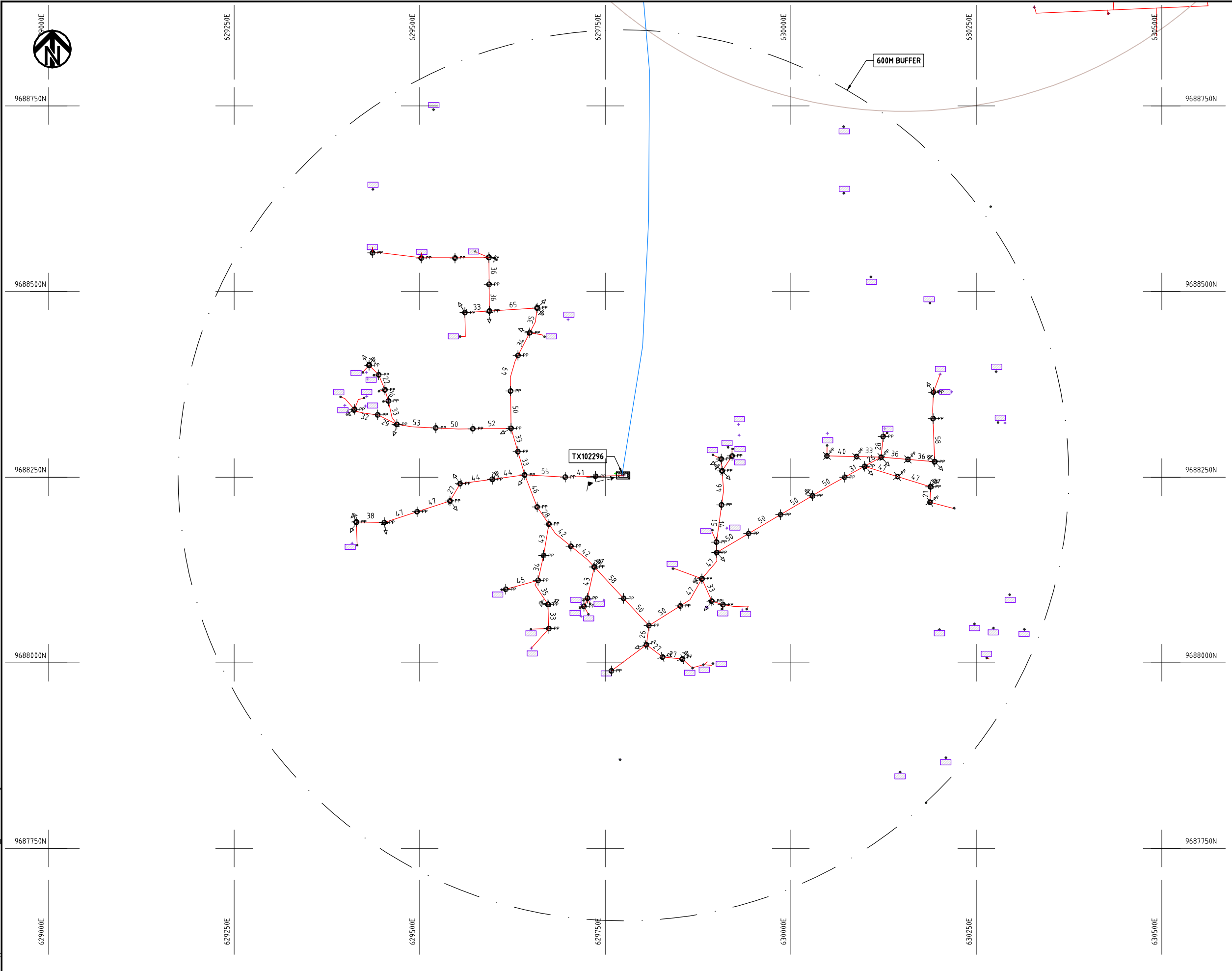
APPROVED BY

Y.TANAKA

DATE

10th SEP 2018

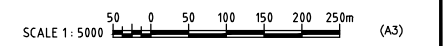
NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

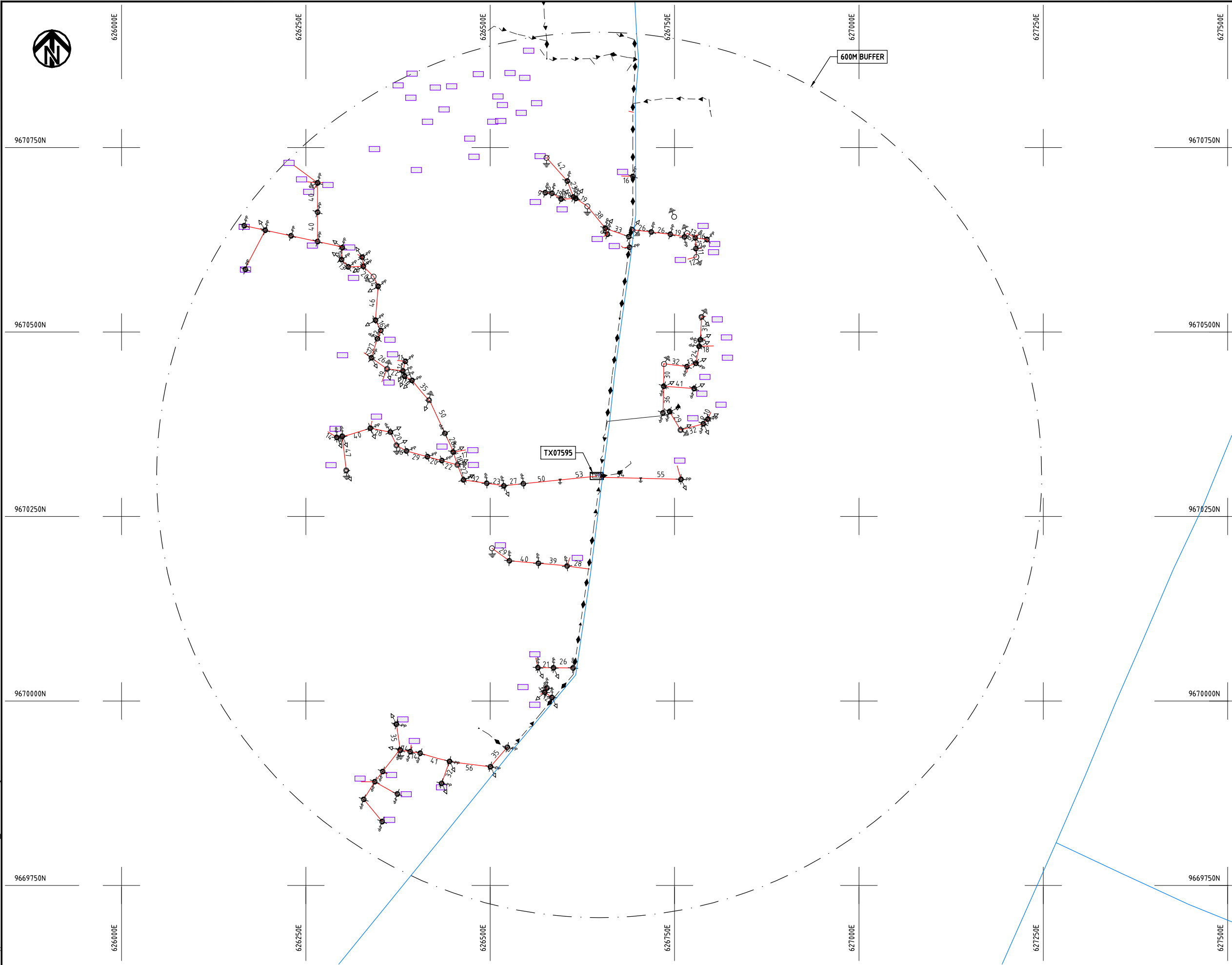


Csd File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-17\_102296-MUYUWA.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 102296 MUYUWA		KLF-MA-17	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





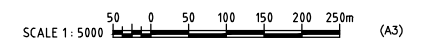


**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



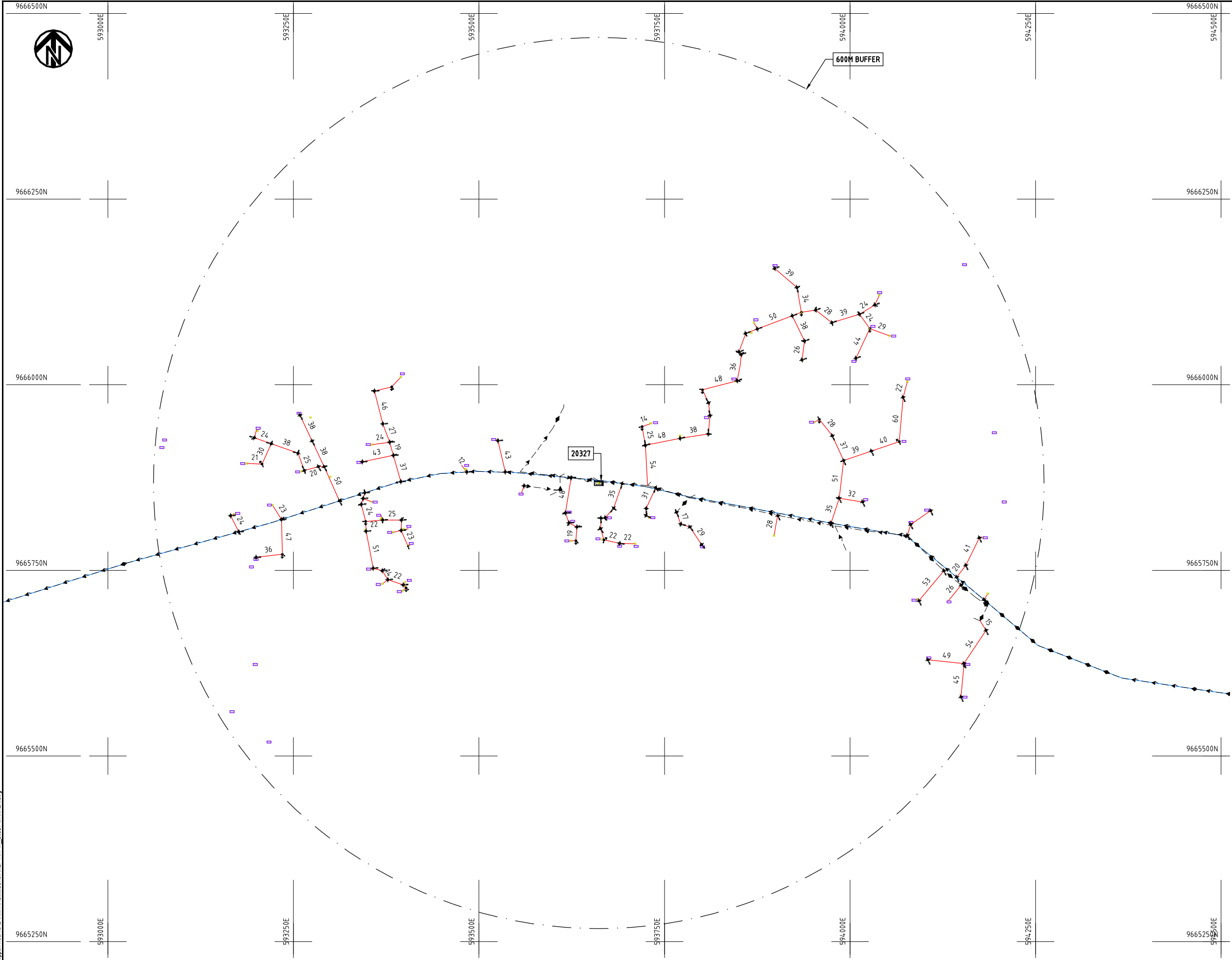
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PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 07595 KADZUHONI

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-18	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018

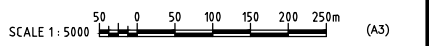




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-19-20327-WAKALA.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-19	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 20327-WAKALA			DATE	10th SEP 2018	





629500E

629750E

630000E

630250E

630500E

630750E

9689750N

9689750N

9689500N

9689500N

9689250N

9689250N

9689000N

9689000N

9688750N

9688750N

600m BUFFER\_102293 MUNYUWAKAE VILLAGE

600m BUFFER\_102293 MUNYUWAKAE PRIMARY SCHOOL

TX102293

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

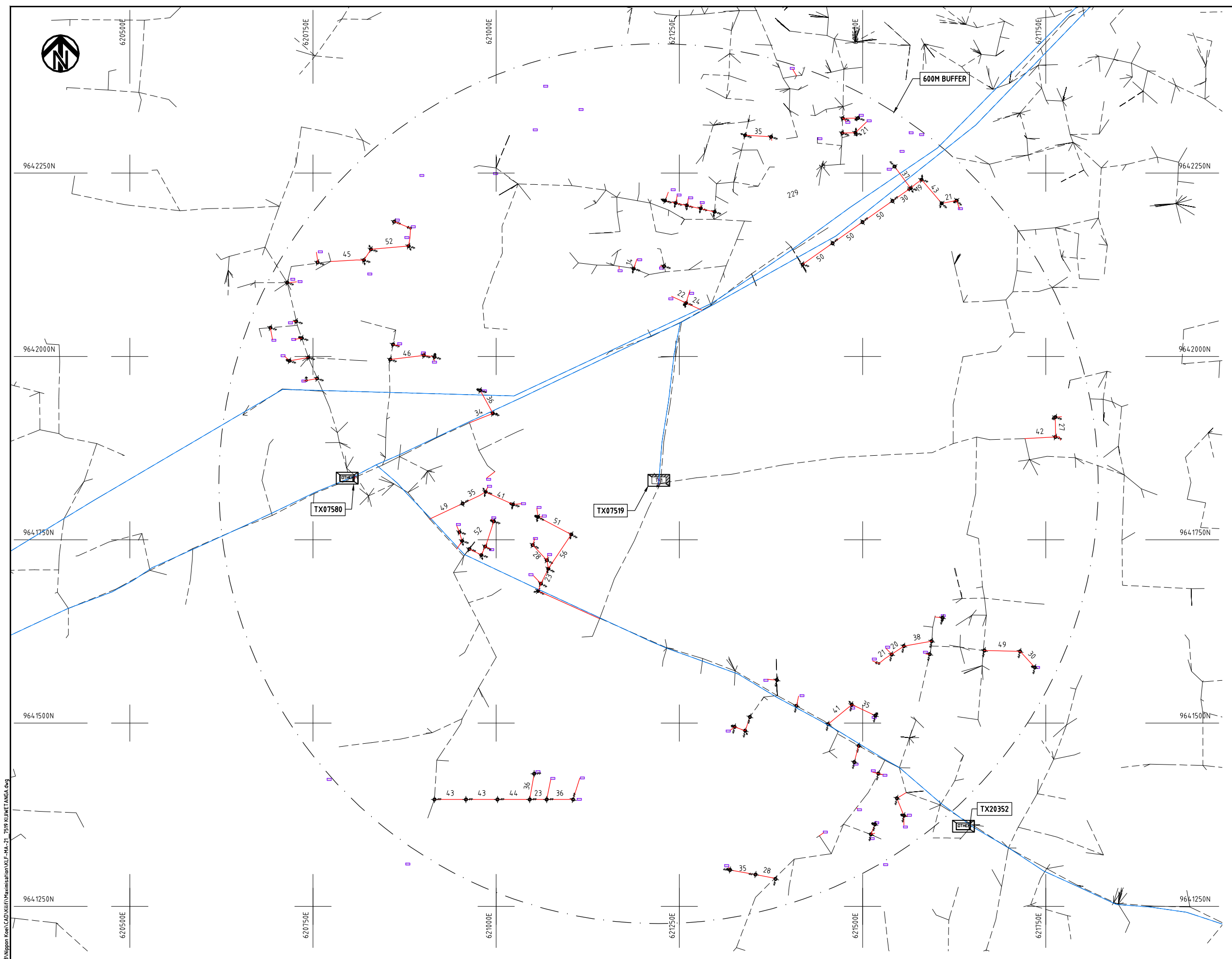
PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 102293 MUYUWAKAE Mwamburui

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-20	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



Cad File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-20\_102293\_Munyuwakae\_Mwamburui.dwg



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

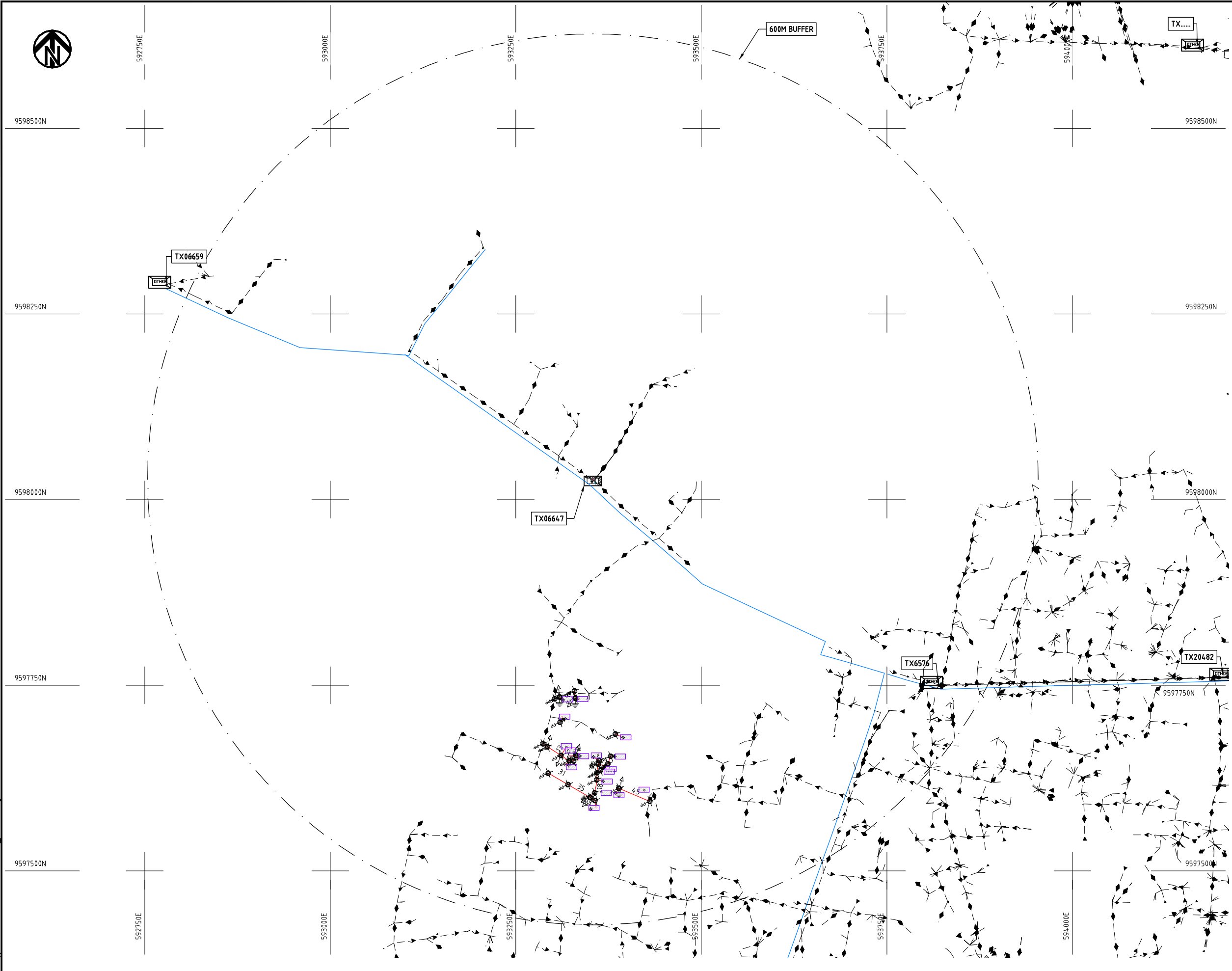
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-21\_7519\_KIJIWETANGA.dwg

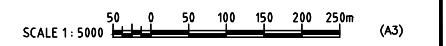
PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07519-KIJIWETANGA		KLF-MA-21	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 06647 KILIFI		KLF-MA-22	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





9592000N

565500E

565750E

566000E

566250E

566500E

566750E

9592000N

9591750N

9591750N

9591500N

9591500N

9591250N

9591250N

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566000E

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566500E

566750E

600M BUFFER

600M BUFFER

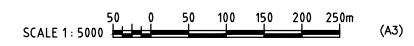
TX19700

### NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

### LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



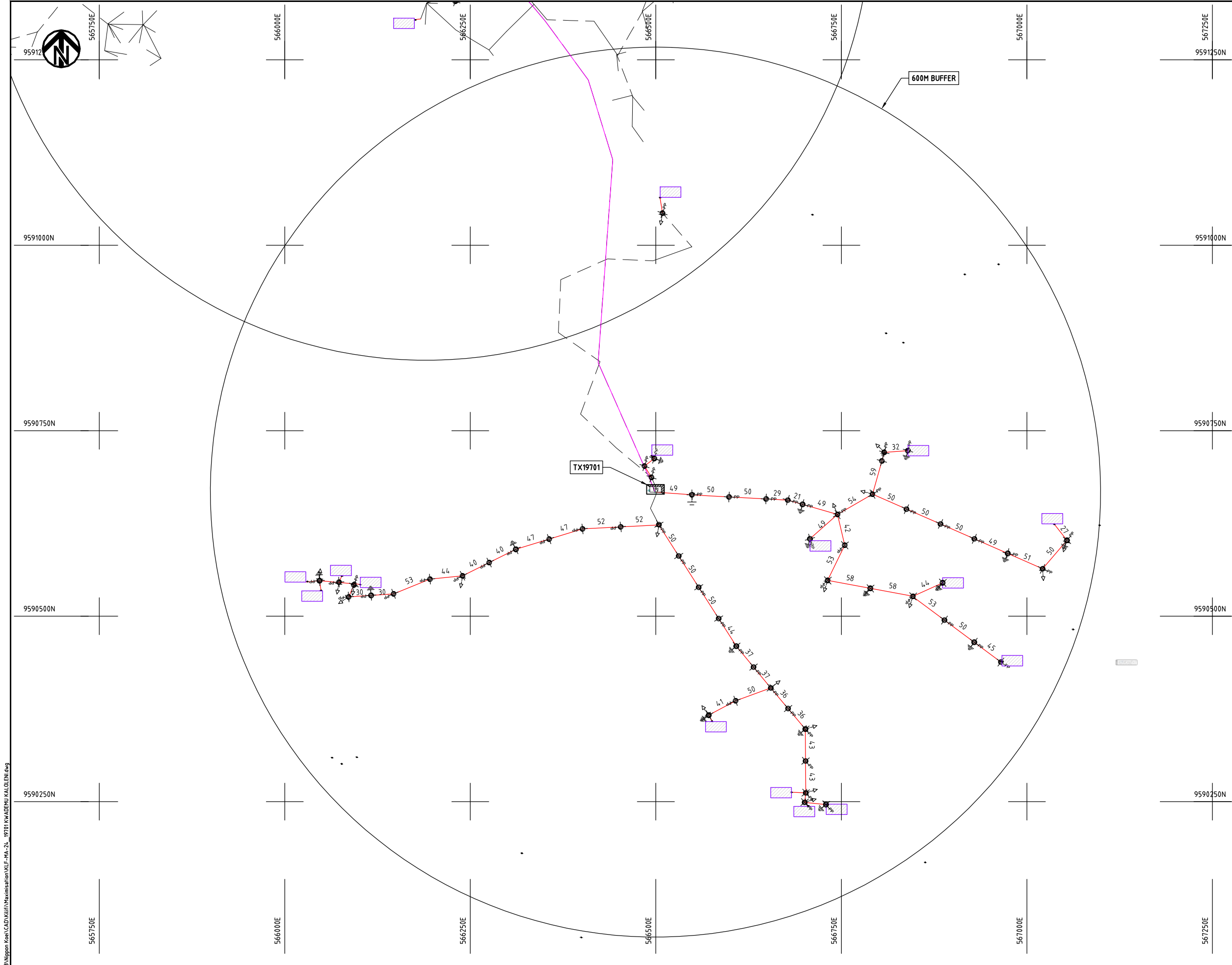
PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 19700- KWADEMU

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-23	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



Csd File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-23-19700-KWADEMU.dwg



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximization\KLF-MA-24-19701-KWADEMU KALO LENI.dwg

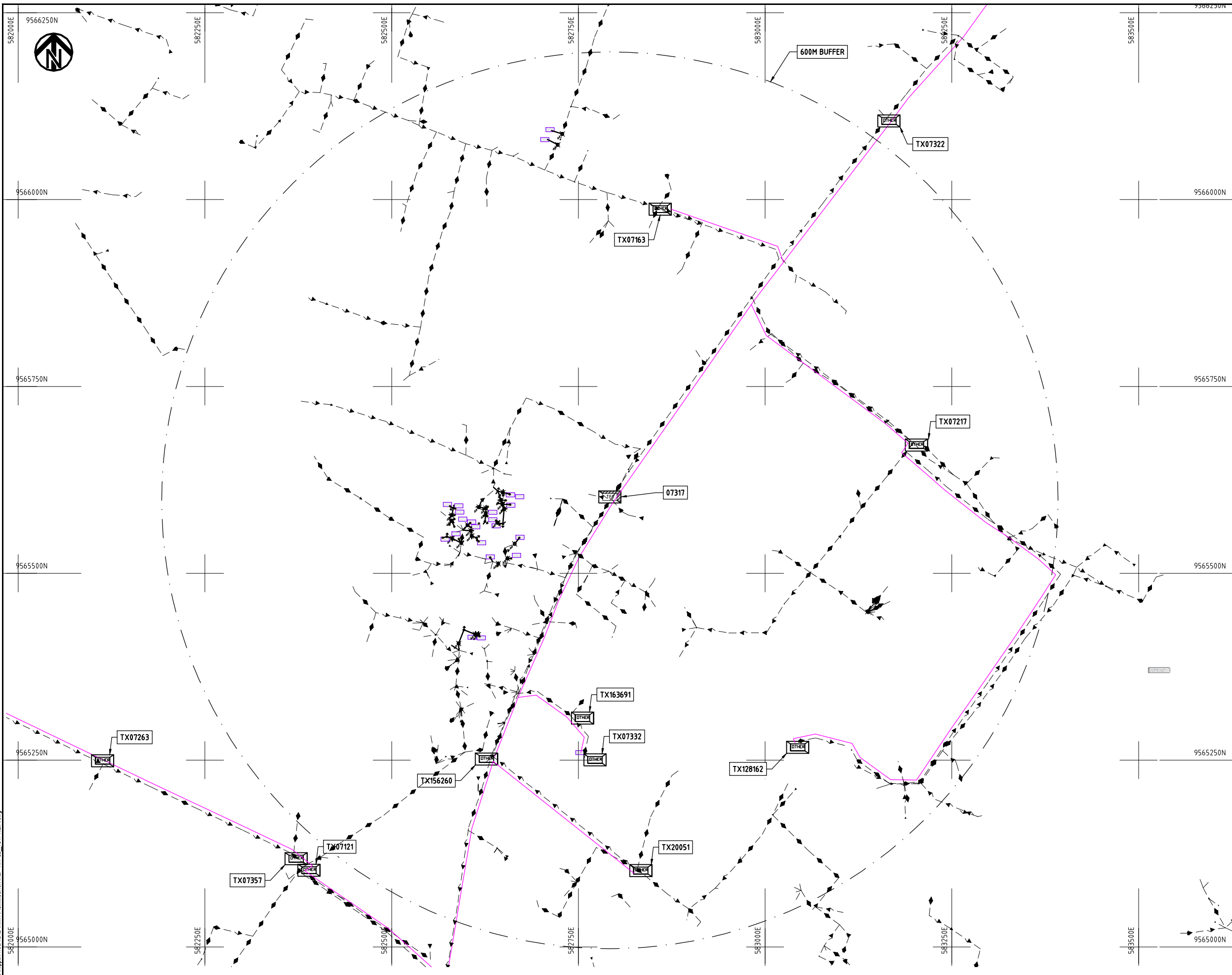
PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 19701 - KWADEMU KALO LENI

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-24	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018







**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

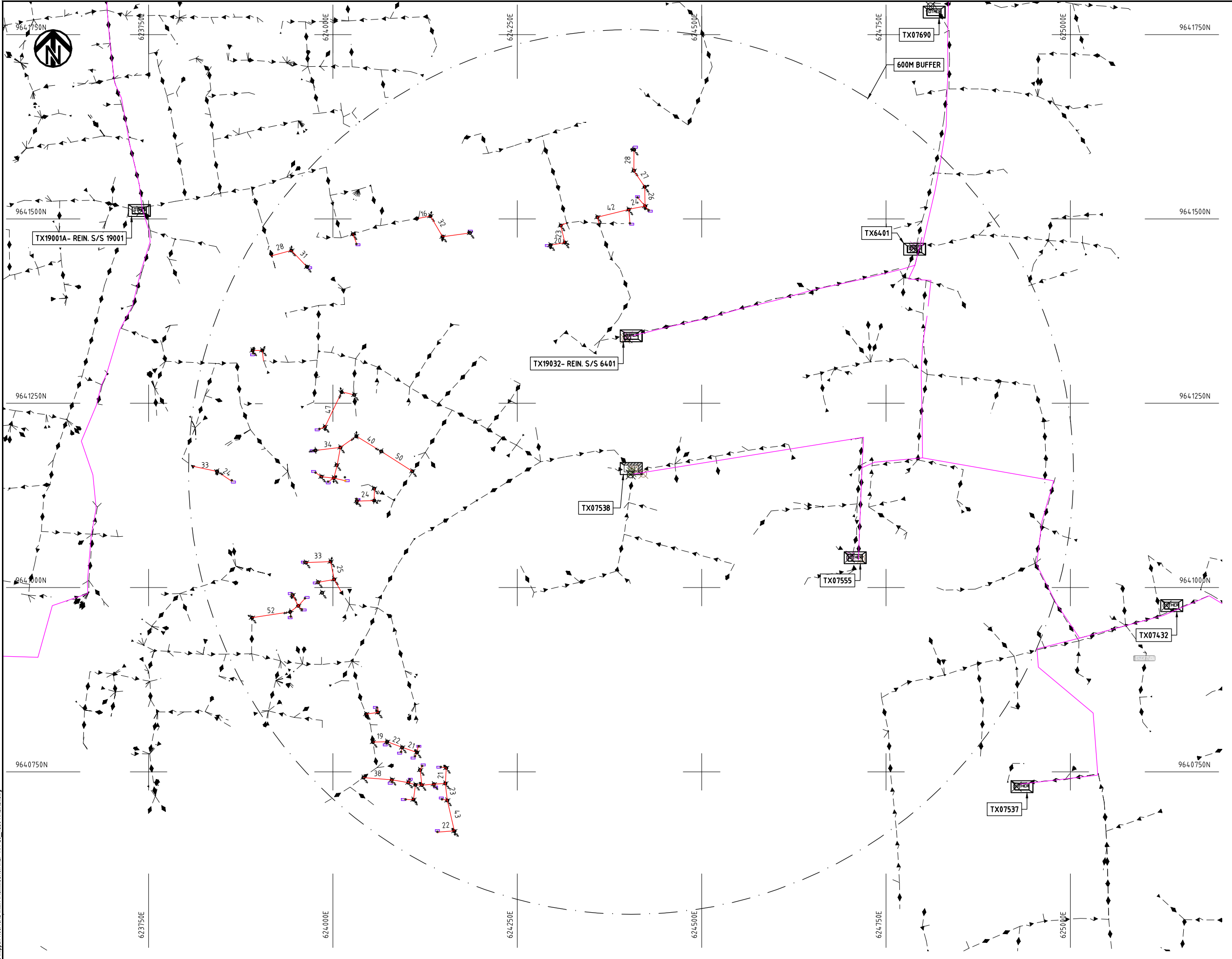
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 (A3)

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-25-7317 KILIFI.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07317-KILIFI		KLF-MA-25	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

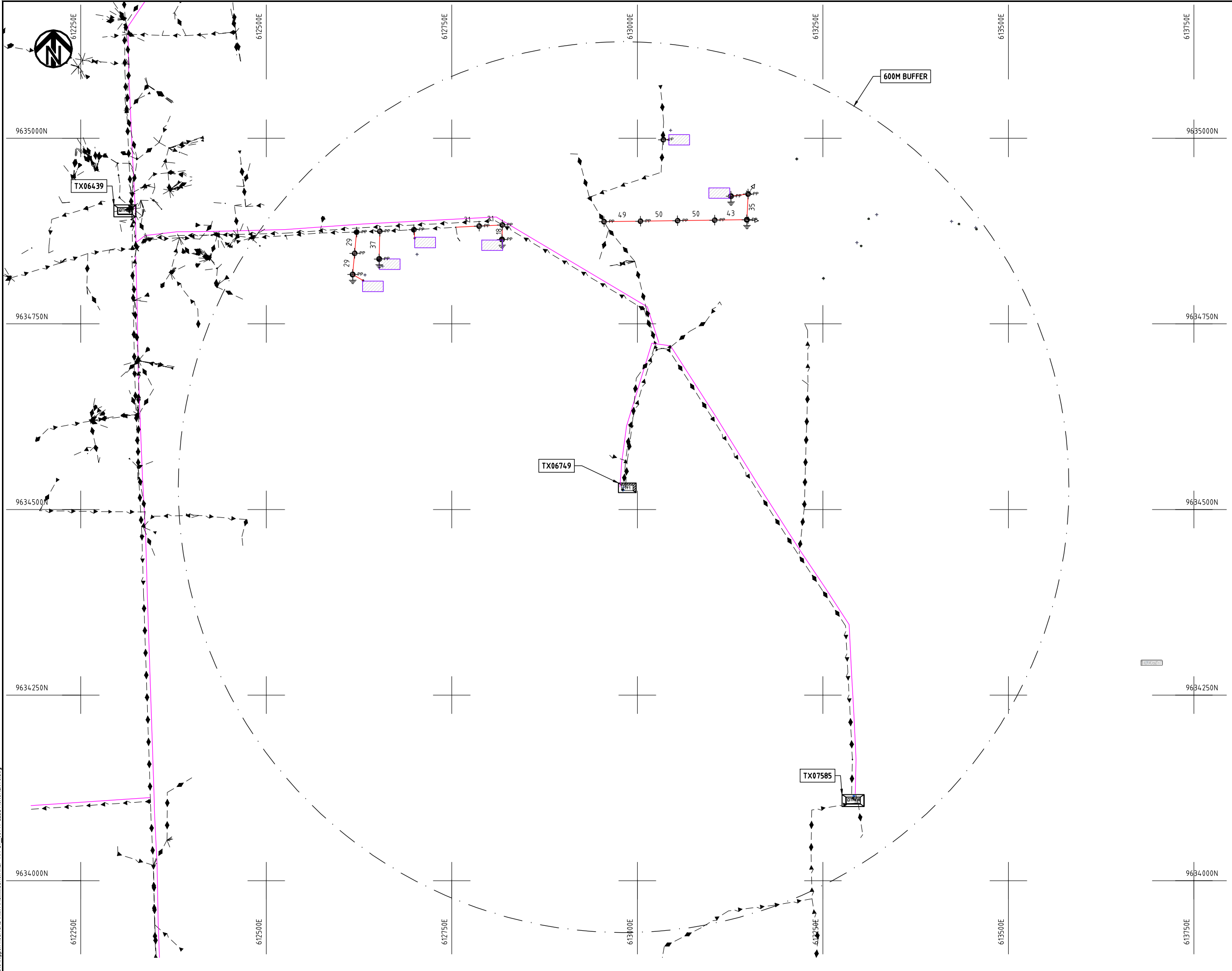
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-26-7538-MALINDI.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-26	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 07538-MALINDI		DATE		10th SEP 2018	





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

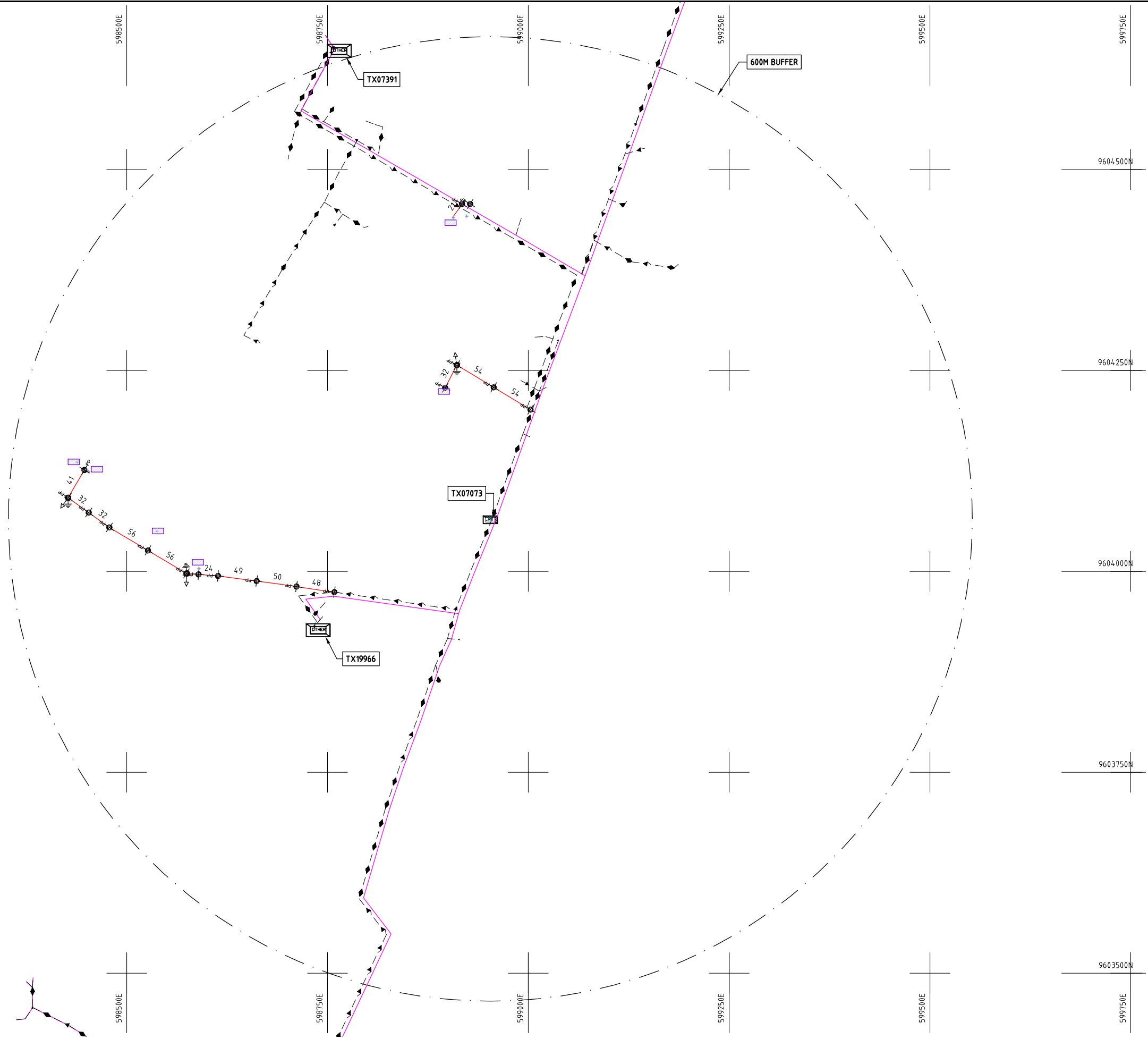
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY

SCALE 1:5000 (A3)

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-27\_06749 GEDE MONUMENTS.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI	KLF-MA-27		CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 06749 GEDE MONUMENTS			DATE	10th SEP 2018





**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



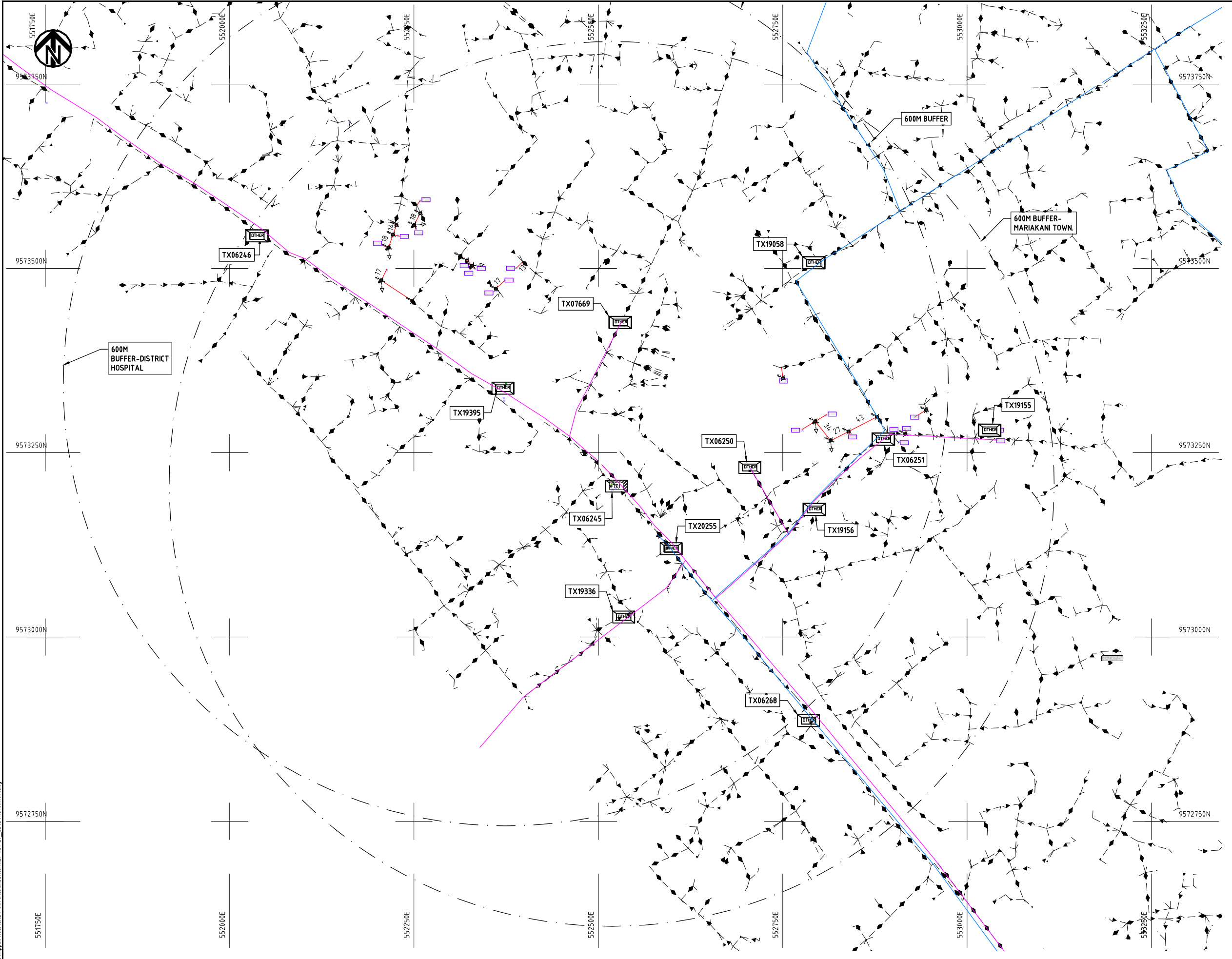
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PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

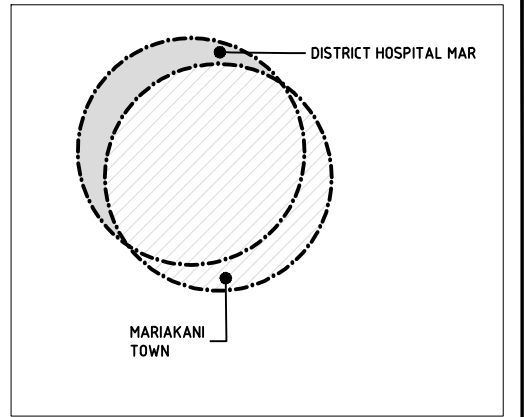
DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 07073 B0FA

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-28	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.



KEY PLAN

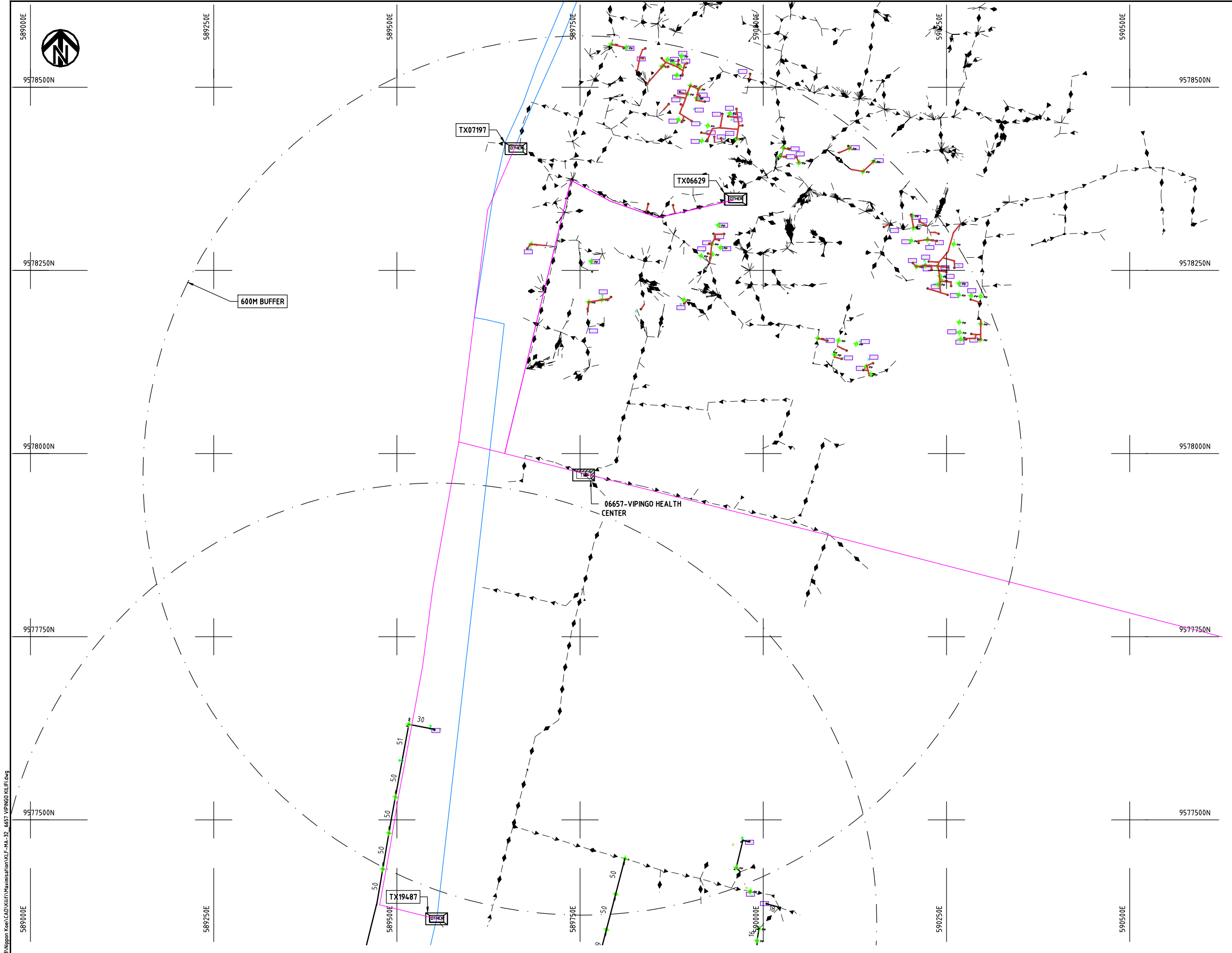
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



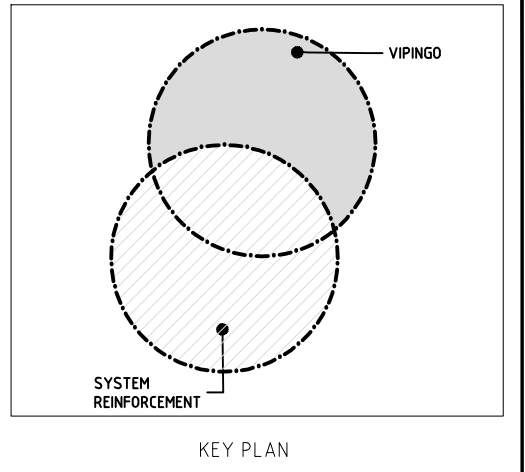
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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 06245-MARIAKANI		KLF-MA-29	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED 11kV
  - PROPOSED 33kV
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES 12M
  - CONCRETE ELECTRIC POLES 11M
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY

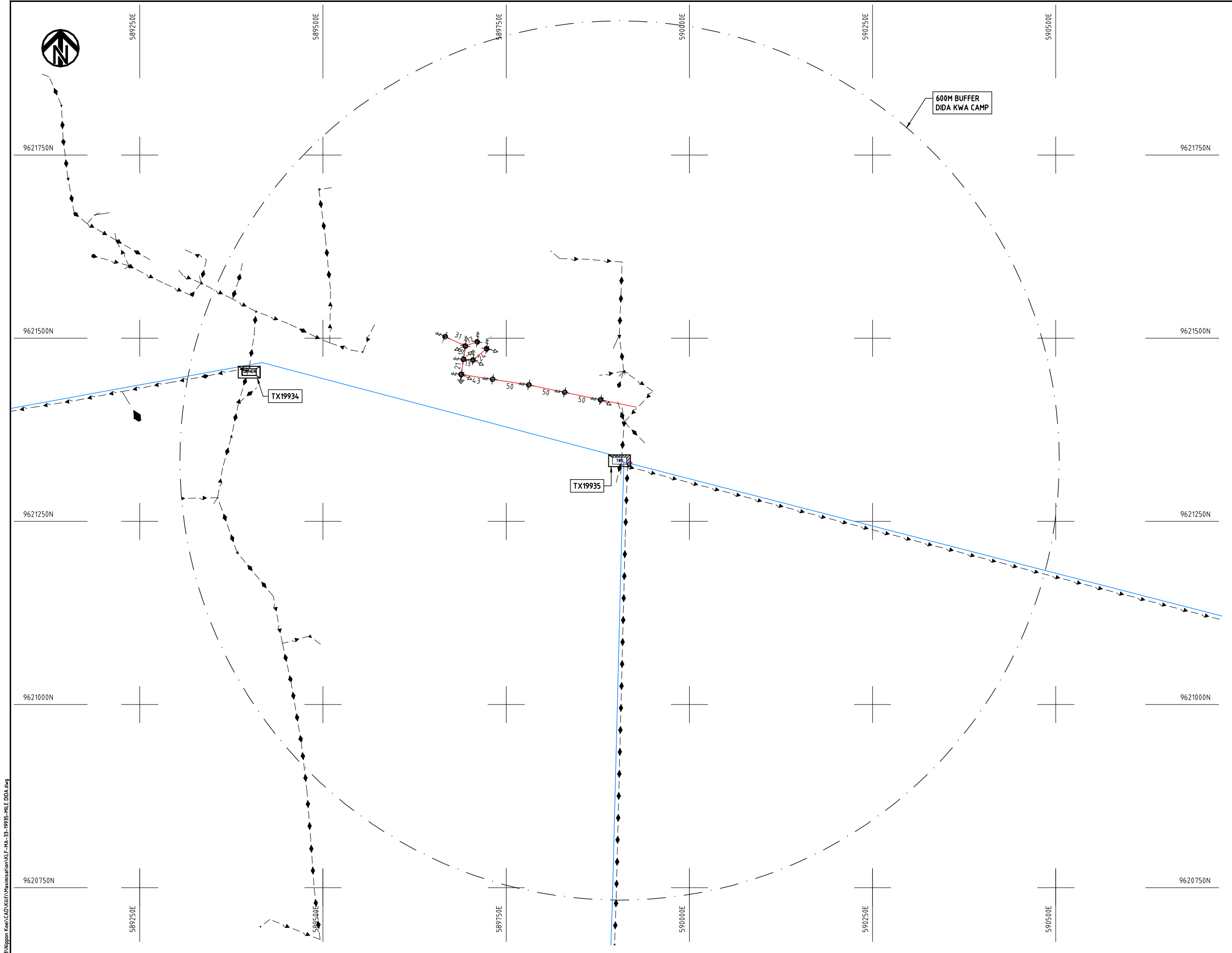


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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 06657-VIPINGO KILIFI		KLF-MA-32	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018







- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - PP WOODEN ELECTRIC POLES
  - CP CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY

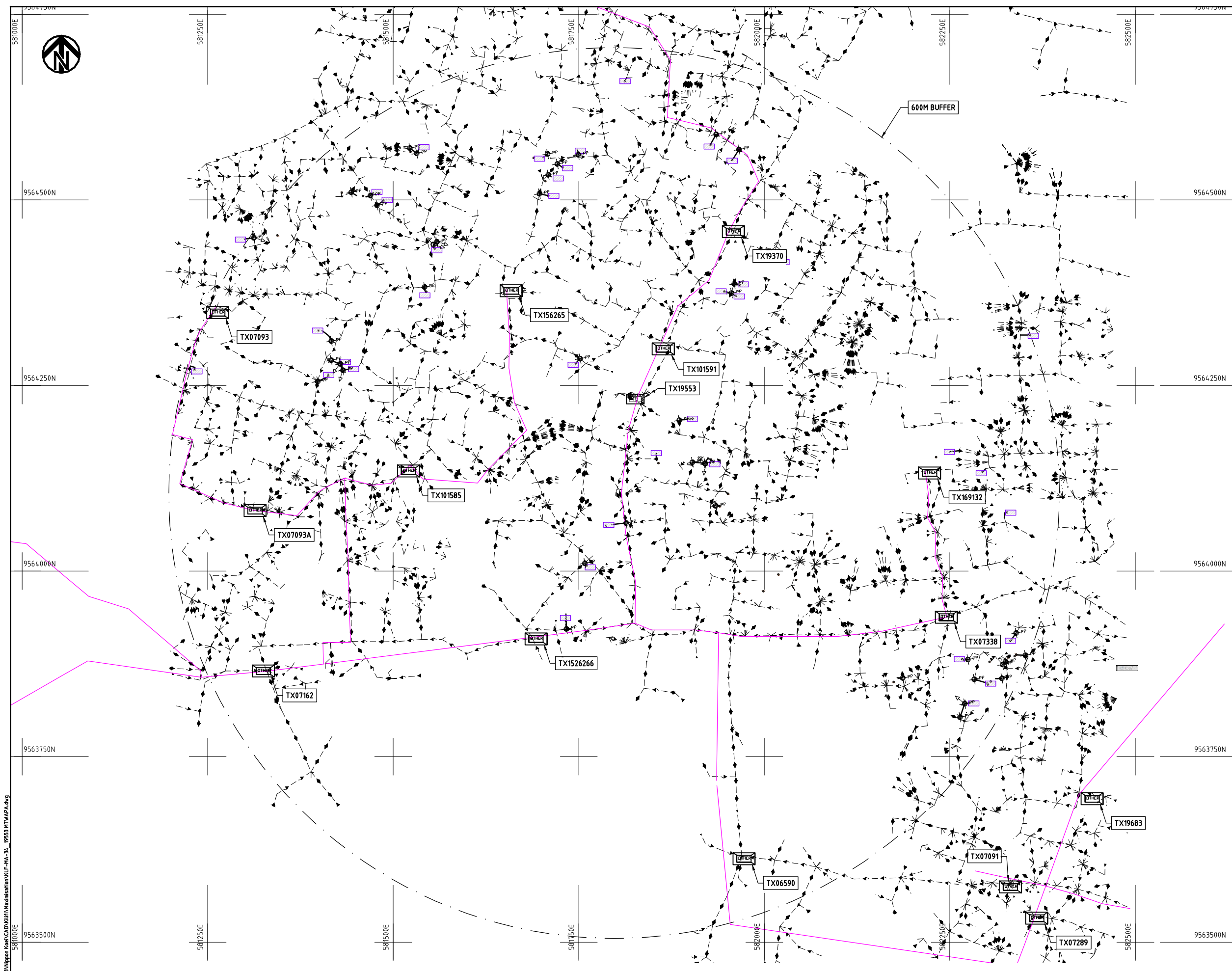
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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-33	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 19935 MILE DIDA			DATE	10th SEP 2018	







- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

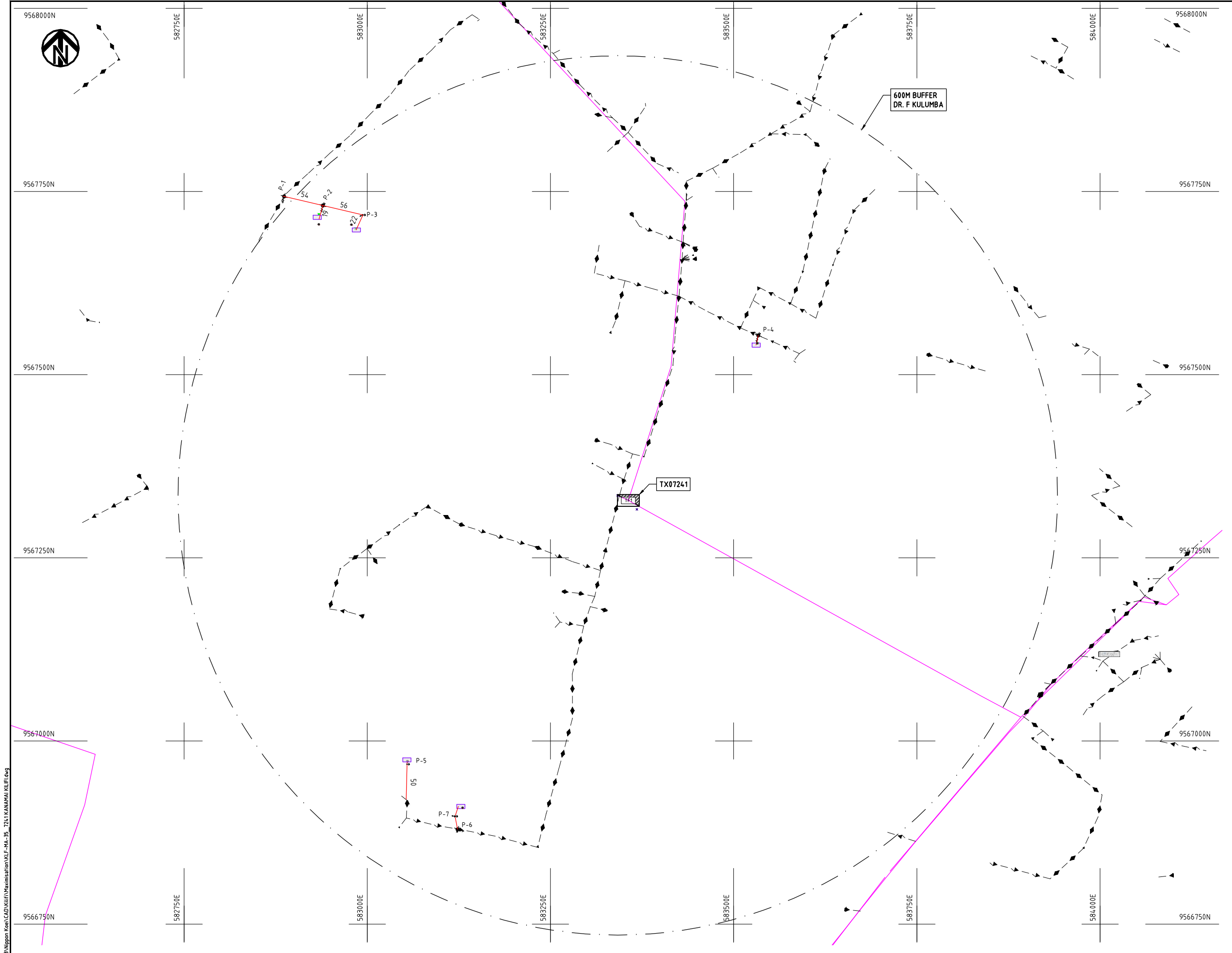
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-34\_19553 MTWAPA.dwg  
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 9564000N  
 9564250N  
 9564500N

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE <b>COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 19553 MTWAPA</b>		DRAW. NO.	PREPARED BY	A.AKBAR
			KLF-MA-34	CHECKED BY	S.MAETA
			APPROVED BY	Y.TANAKA	
			DATE	10th SEP 2018	





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

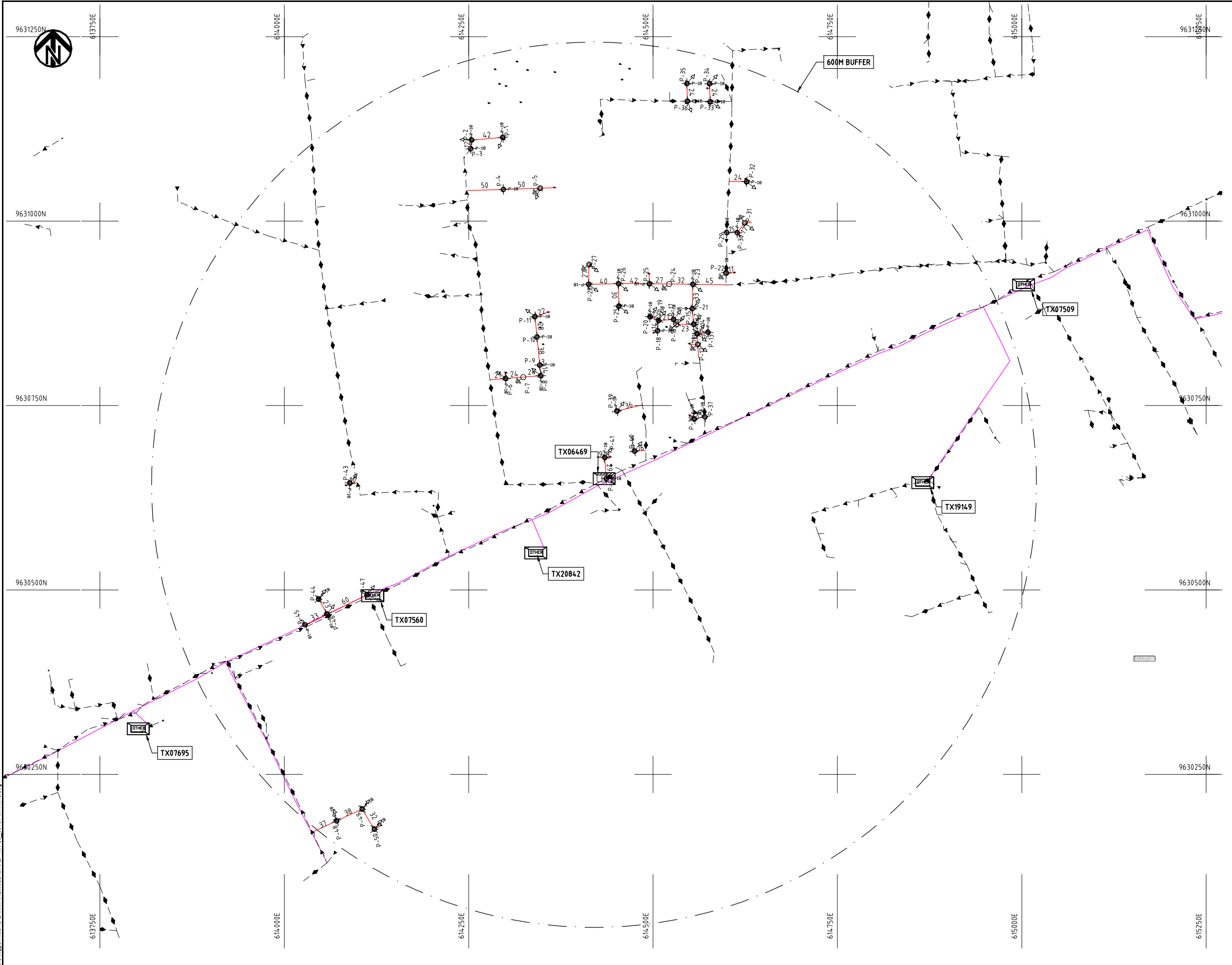
	HOUSEHOLDS/ BUILDINGS
	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	OTHER EXISTING TRANSFORMER
	WOODEN ELECTRIC POLES
	CONCRETE ELECTRIC POLES
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING
	STAY



Cad File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-35-7241 KANAMAI KILIFI.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07241-KANAMAI KILIFI		KLF-MA-35	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

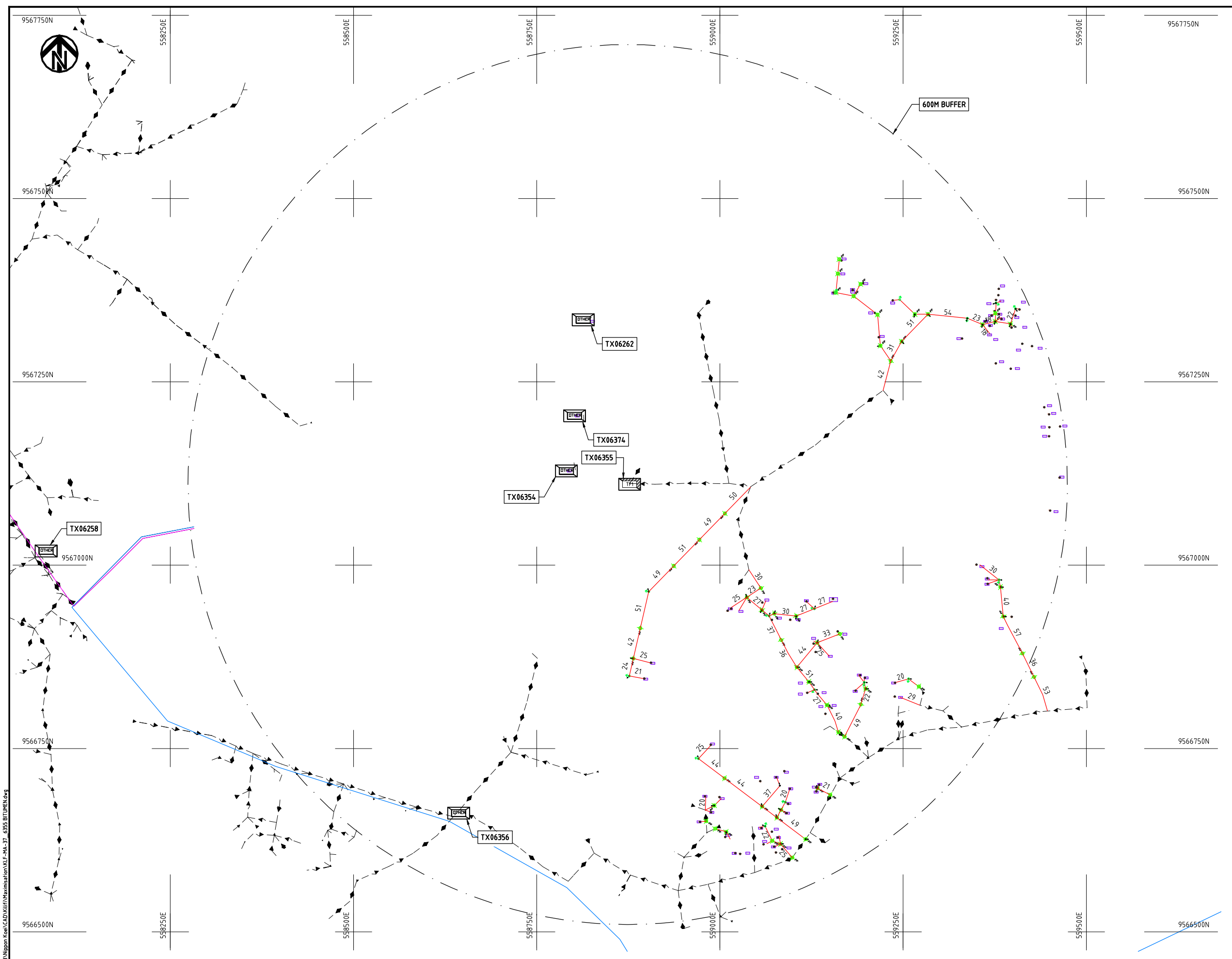
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY

SCALE 1:5000 (A3)

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-36\_06469 WATAMU.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 06469 WATAMU		KLF-MA-36	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018

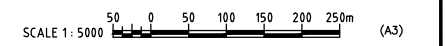




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

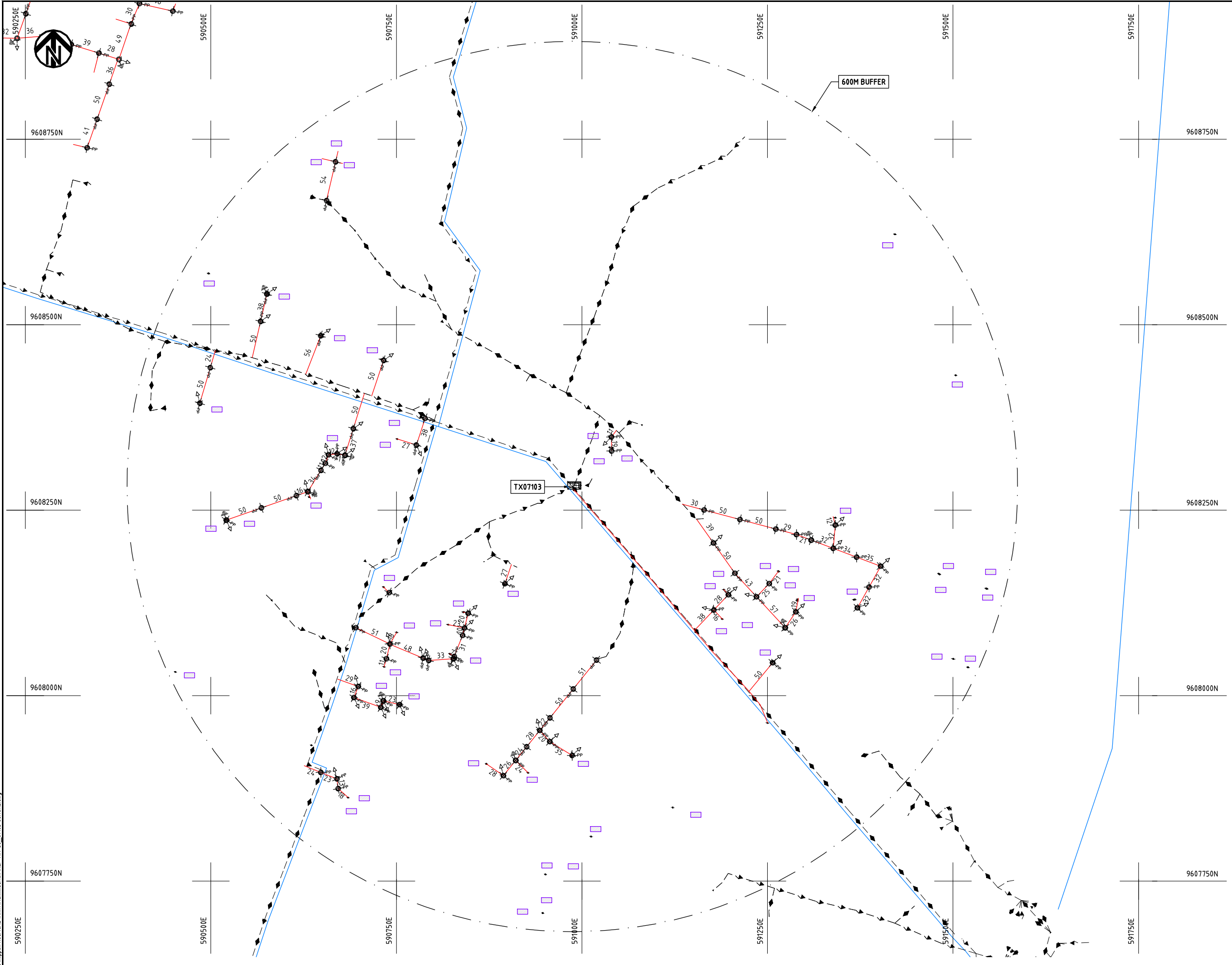
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



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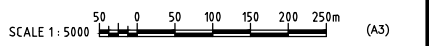
PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-37	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 06355-BITUMEN		DATE		10th SEP 2018	





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

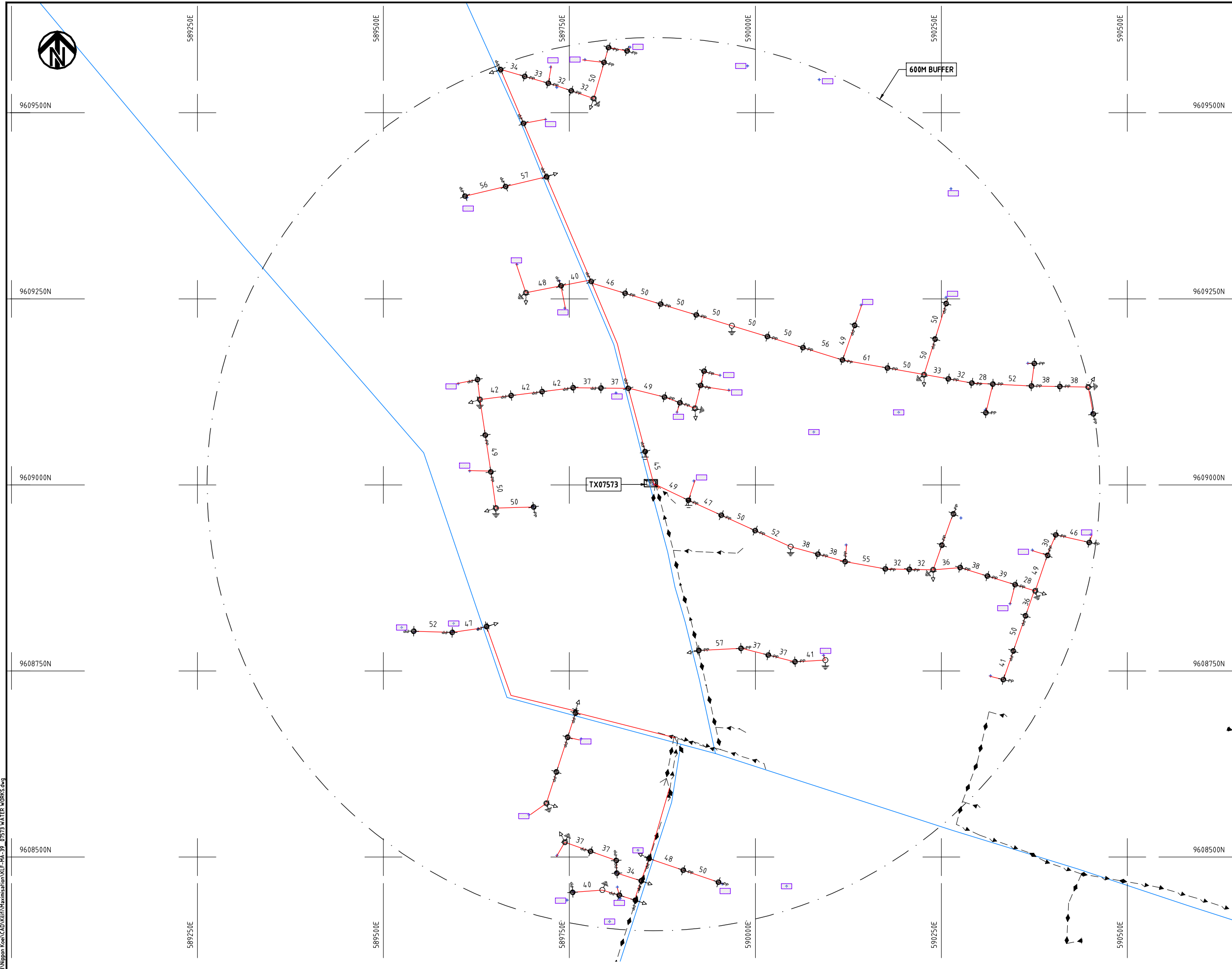
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-38\_07103\_SOKOKE.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07103 SOKOKE		KLF-MA-38	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018



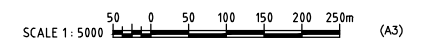


**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

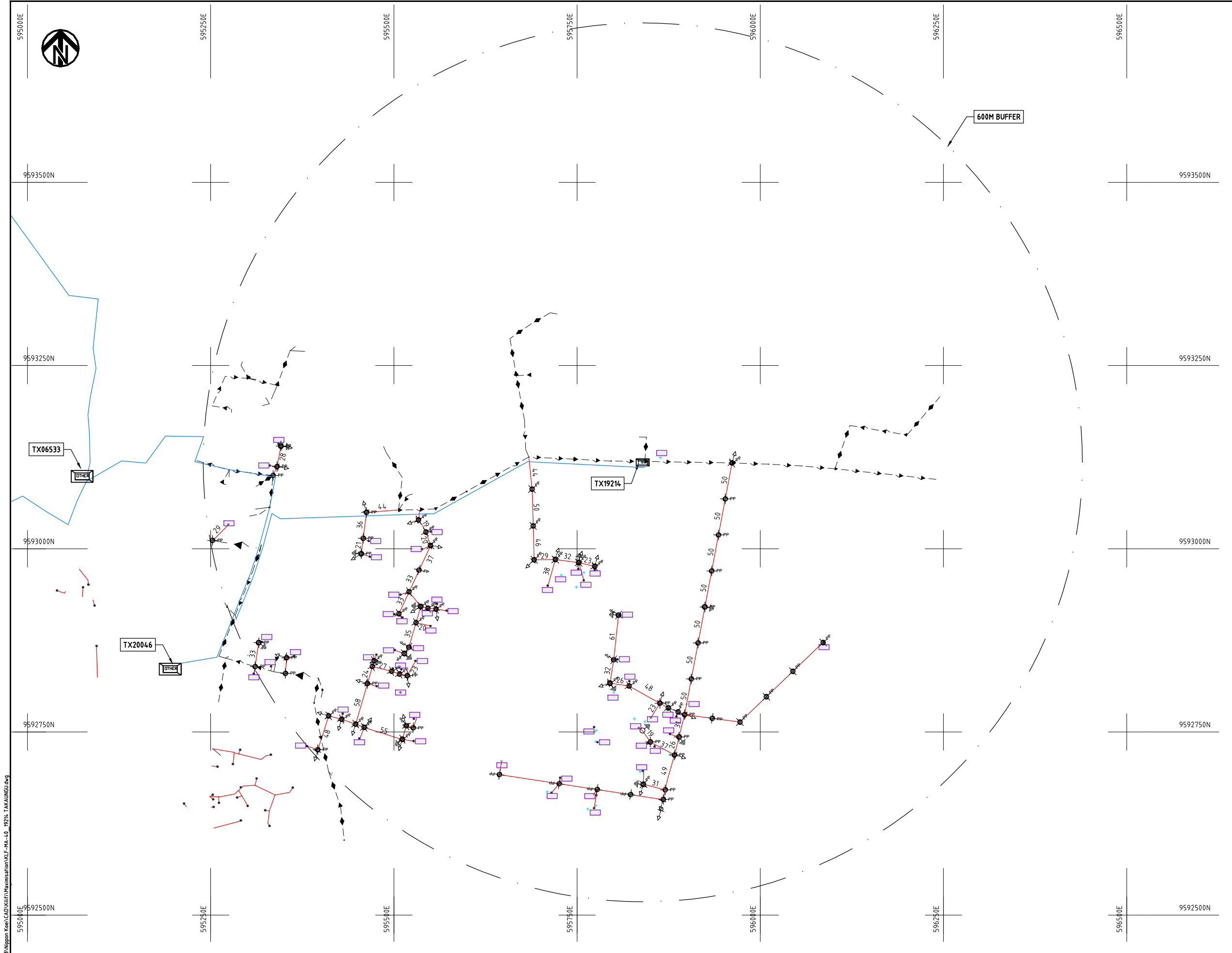
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07573 WATER WORKS		KLF-MA-39	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018







- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

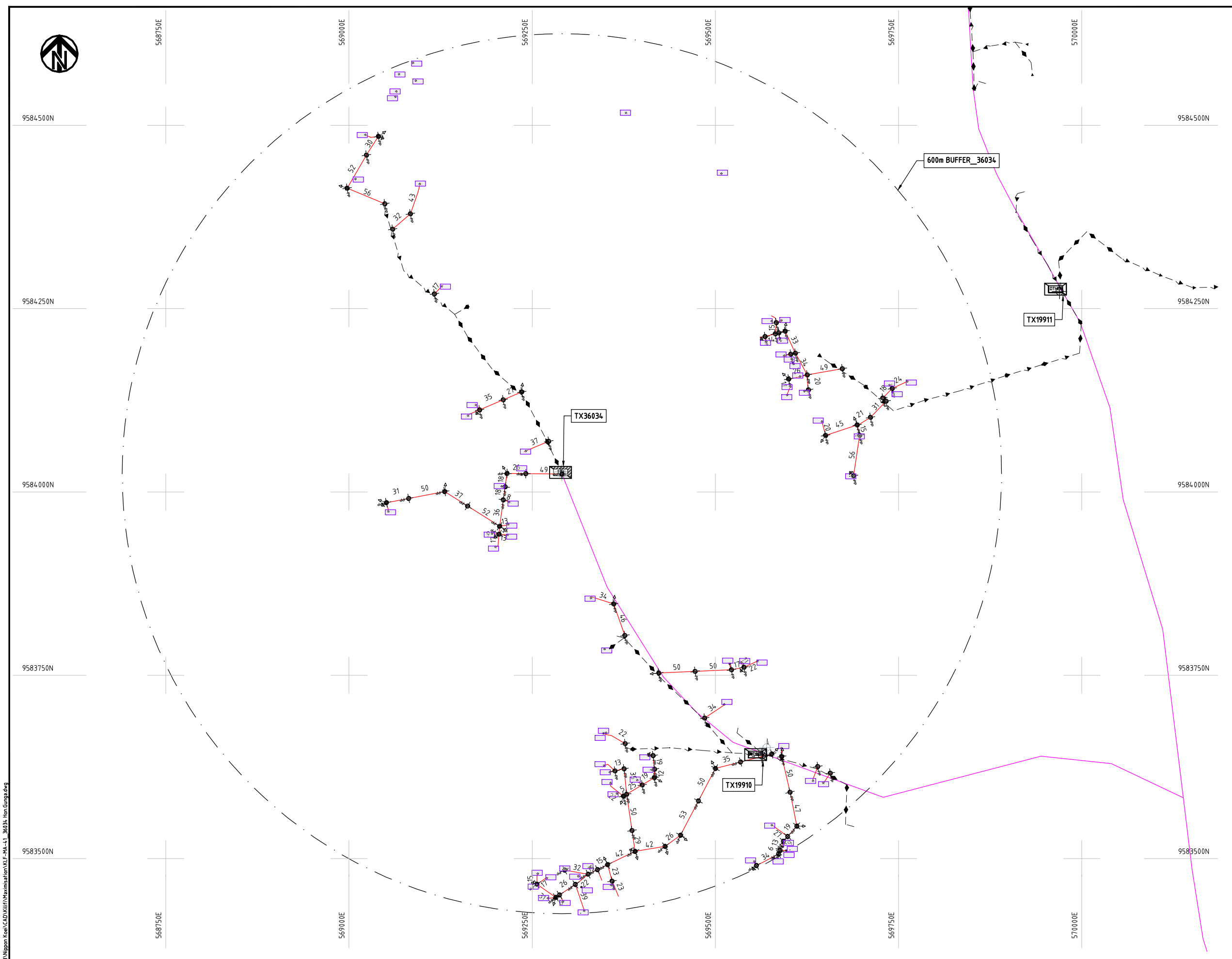


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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 19214 TAKAUNGU		KLF-MA-40	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





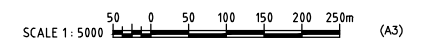


**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

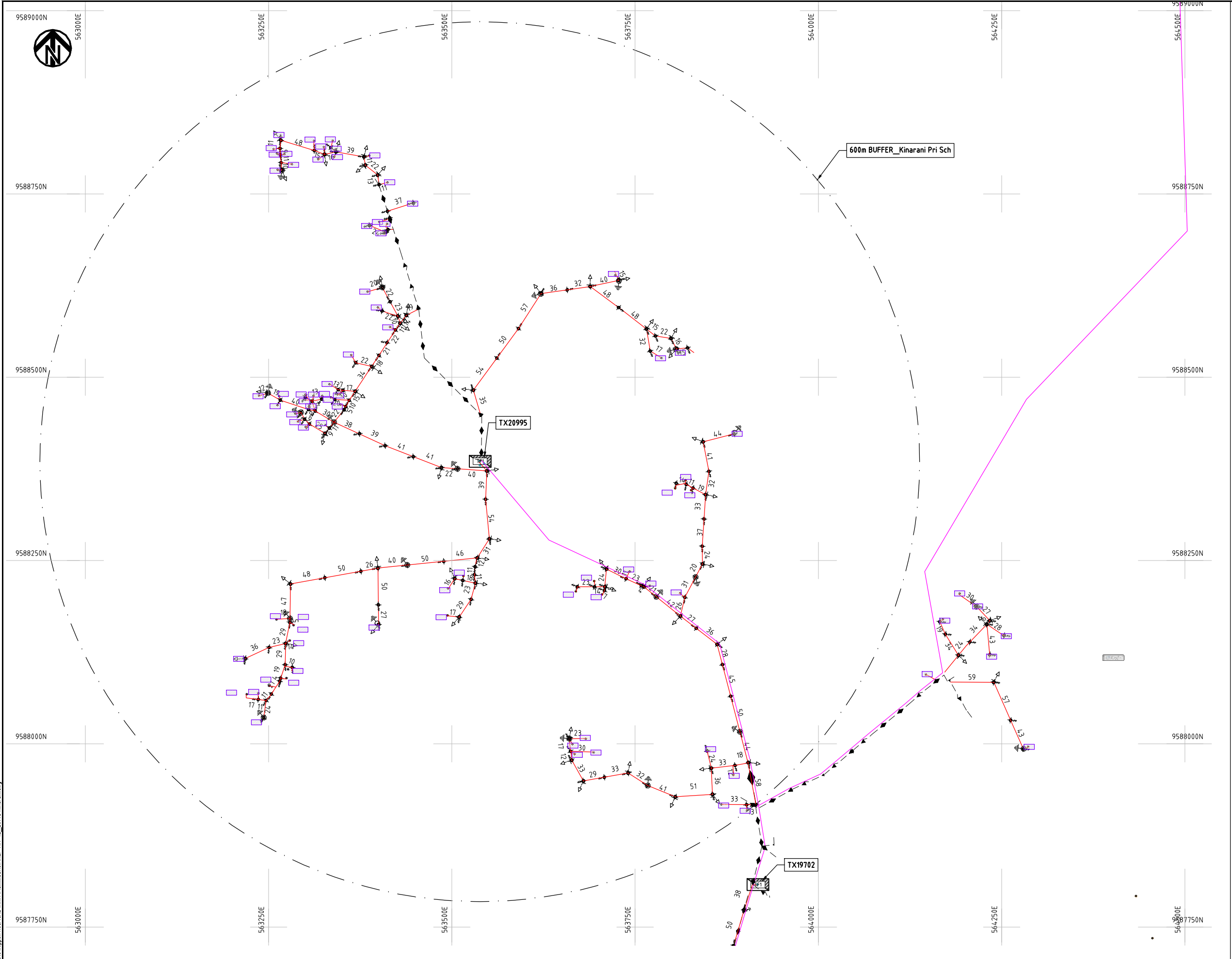
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



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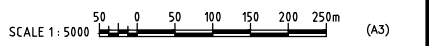
PROJECT:	<b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE	DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 36034 HON. GUNGA	KLF-MA-41	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

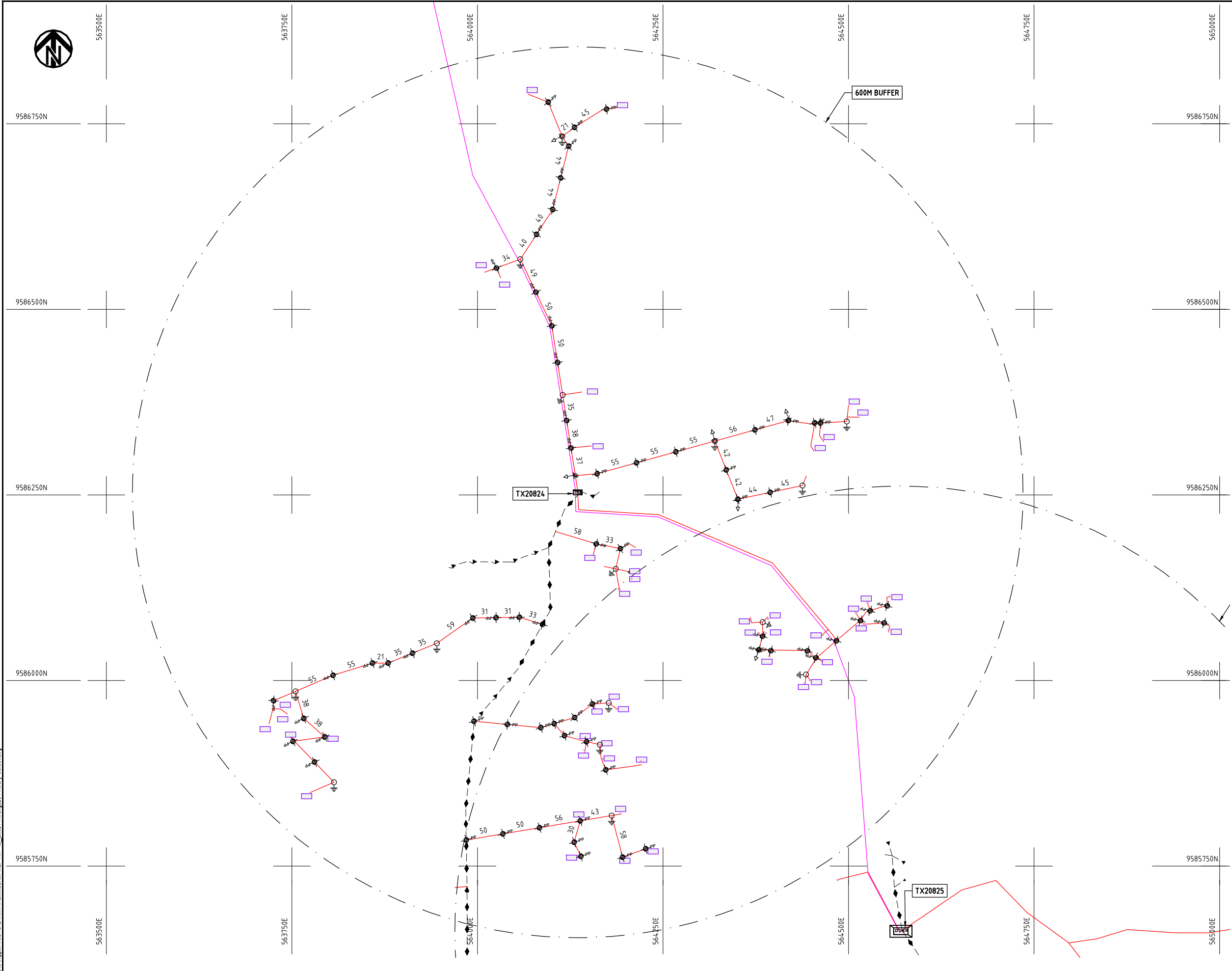
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-42\_20995\_Kinarani.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 20995 KINARANI		KLF-MA-42	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

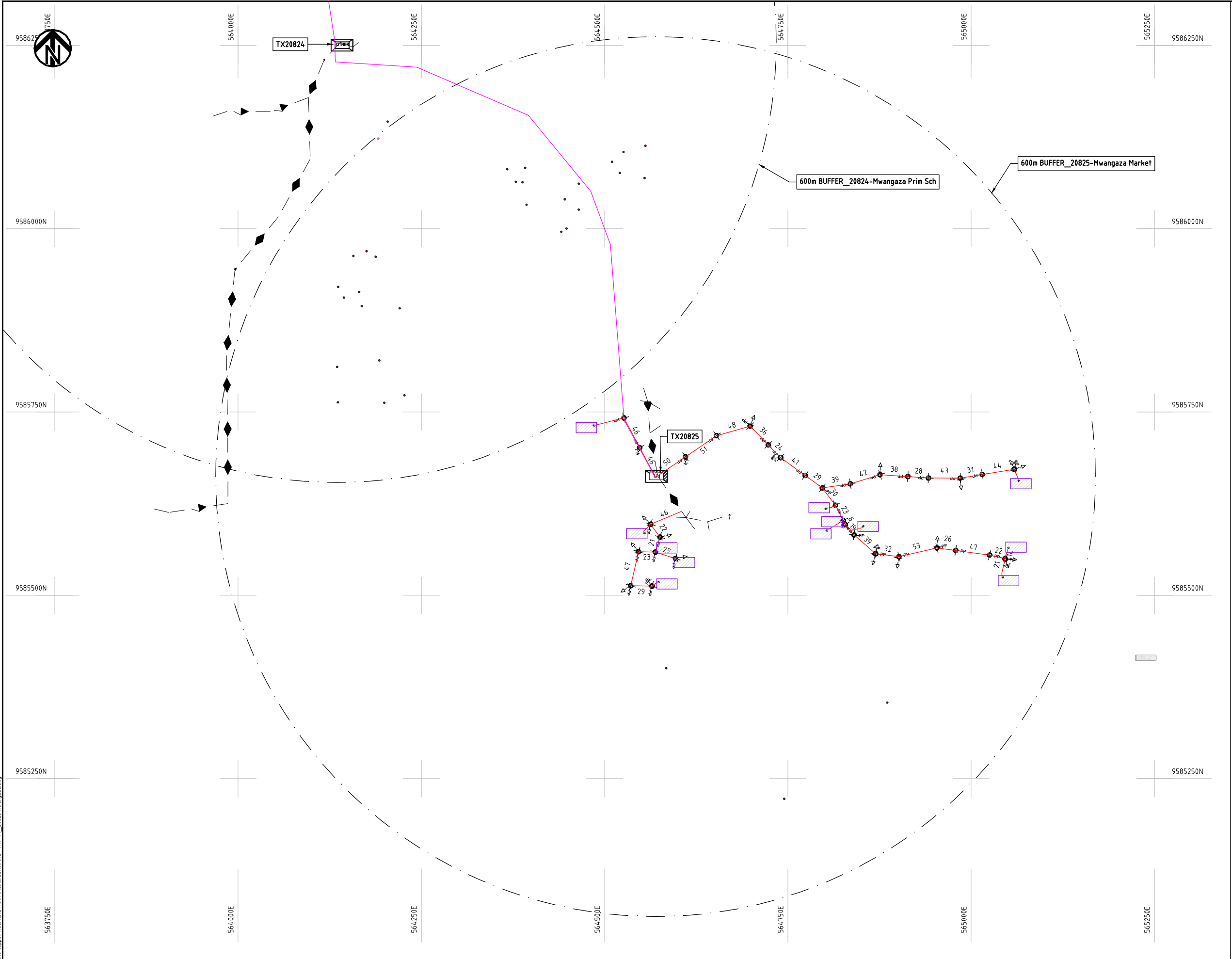
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



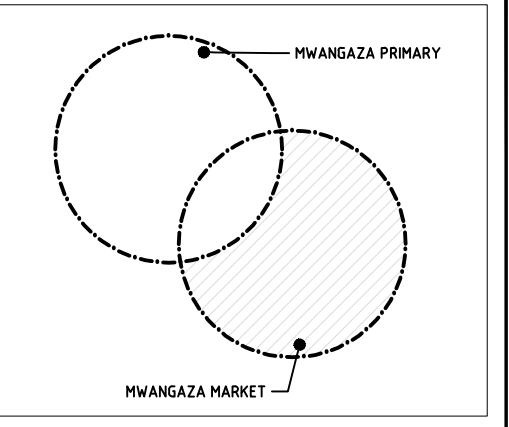
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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-43	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 20824 MWANGAZA PRIMARY SCHOOL			DATE	10th SEP 2018	



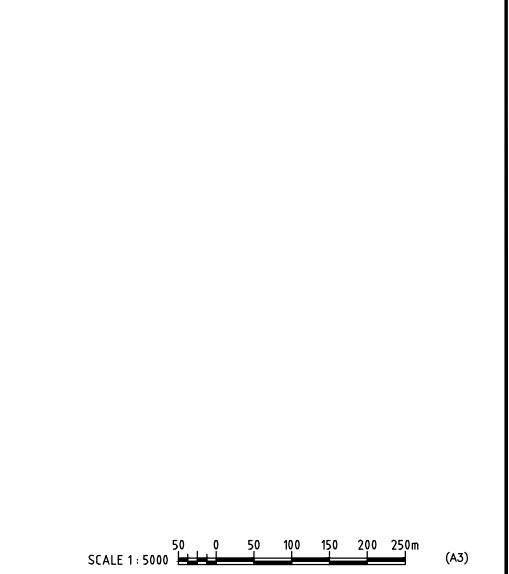


- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.



KEY PLAN

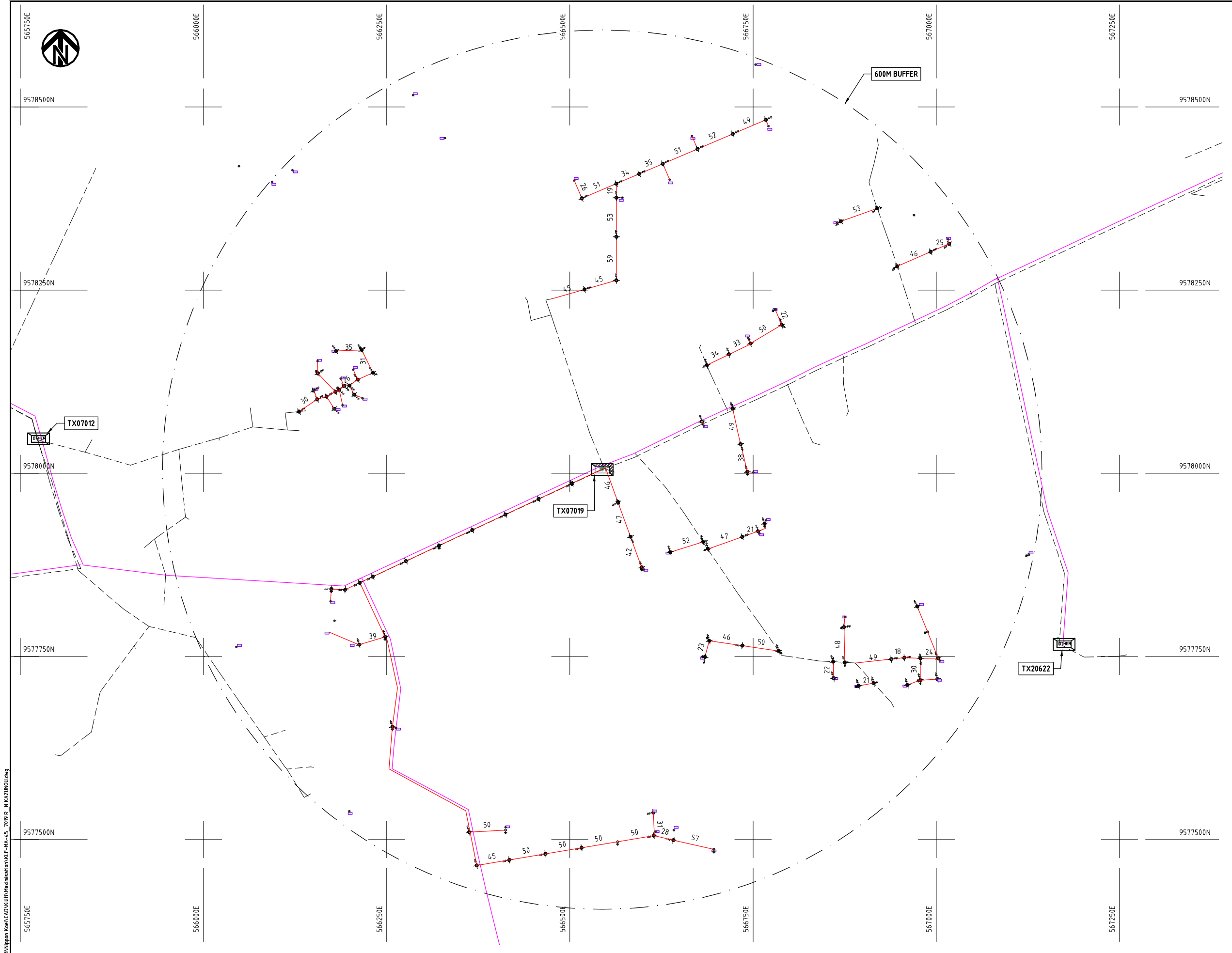
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-44\_20825\_Mwangaza.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 20825 MWANGAZA		KLF-MA-44	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-45\_7019 R - N KANZUNGU.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07019-R N KANZUNGU		KLF-MA-45	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





9594000N

557500E

557750E

558000E

558250E

558500E

558750E

559000E

9593750N

9593750N

9593500N

9593500N

9593250N

9593250N

9593000N

9593000N

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557750E

558000E

558250E

558500E

558750E

559000E

600M BUFFER

TX19718

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

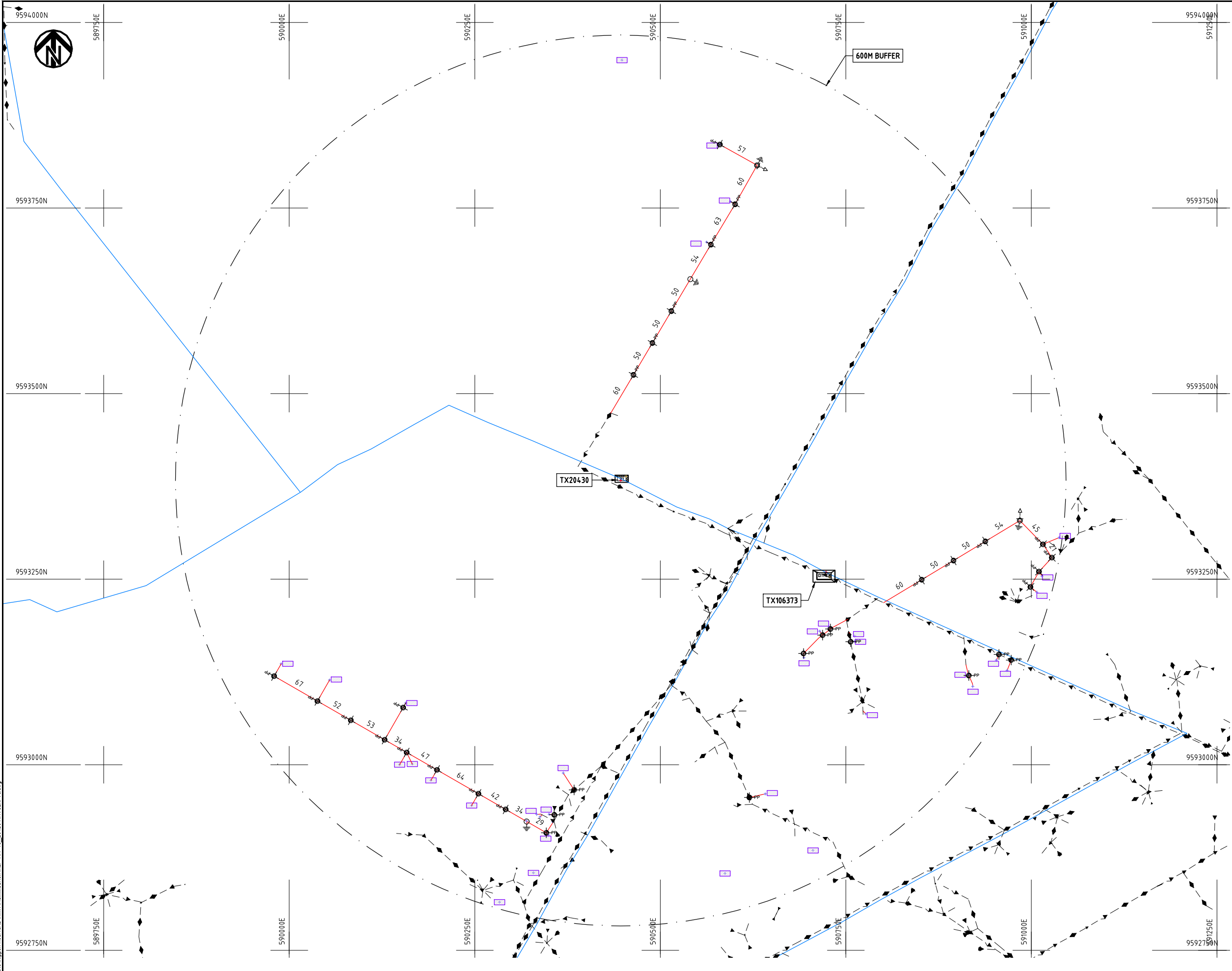
DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 19718-KABATHENI MARKET

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-46	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-46\_19718 KABATHENI MARKET.dwg

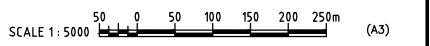




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

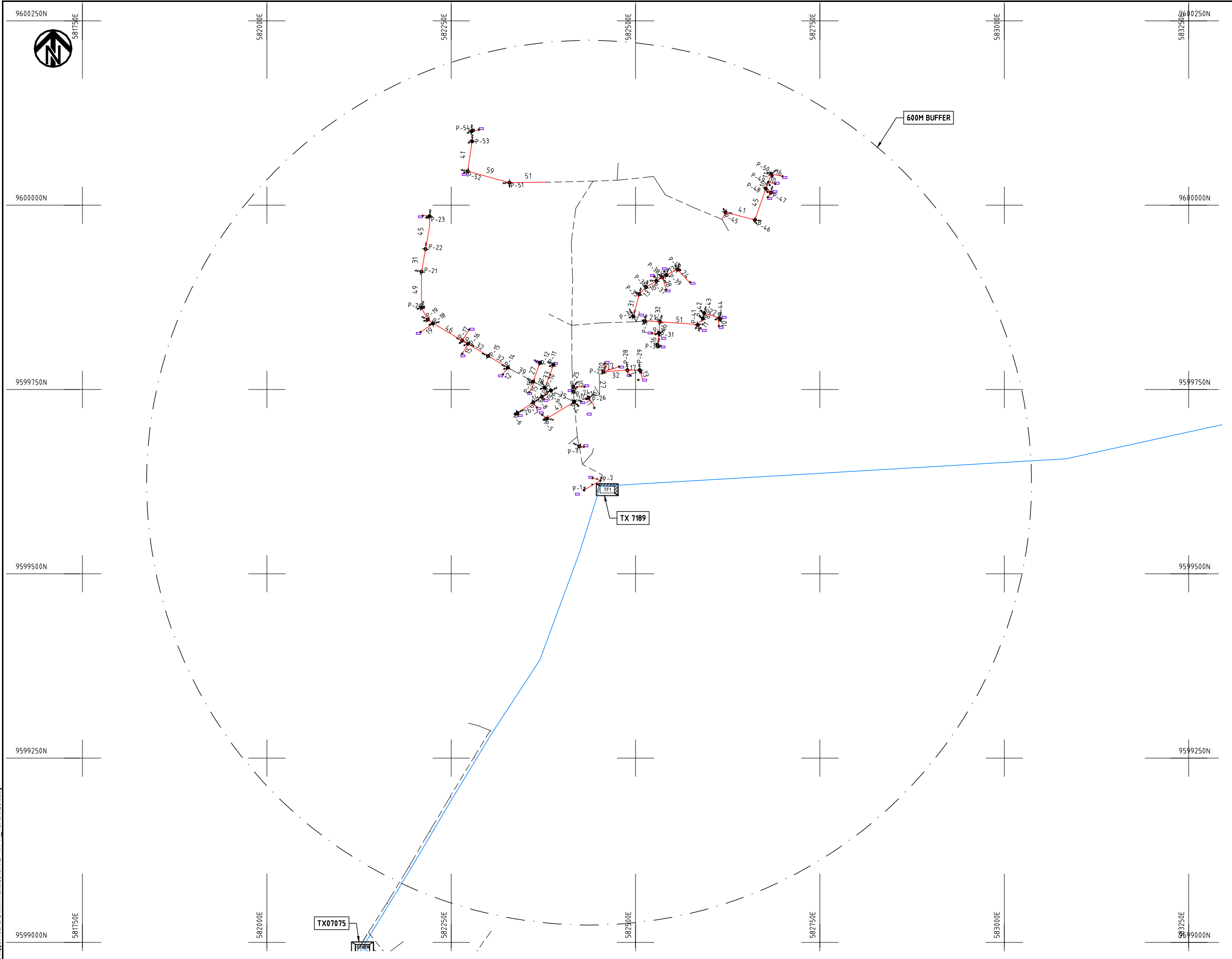
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-48\_20430 MAVUENI TC.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-48	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 20430 MAVUENI TC			DATE	10th SEP 2018	





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

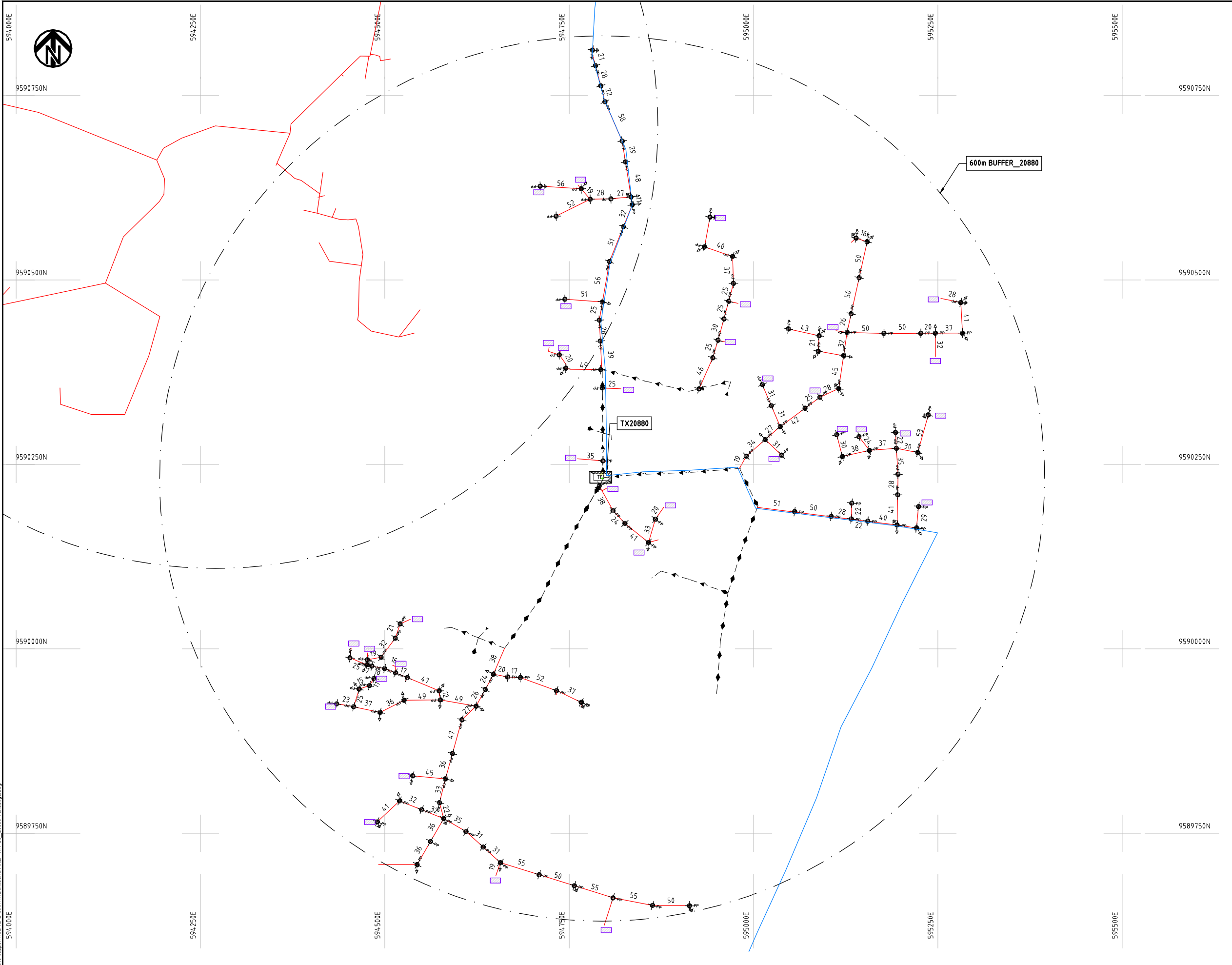
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



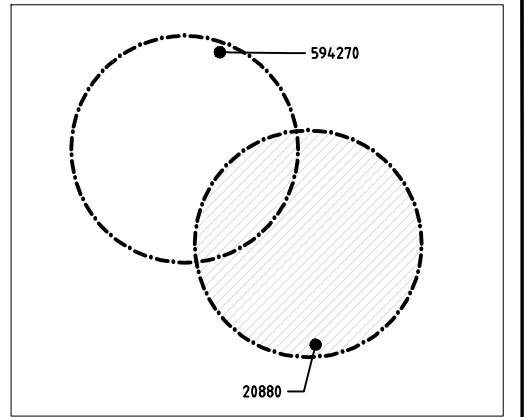
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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07189-JARIBUNI		KLF-MA-49	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.



KEY PLAN

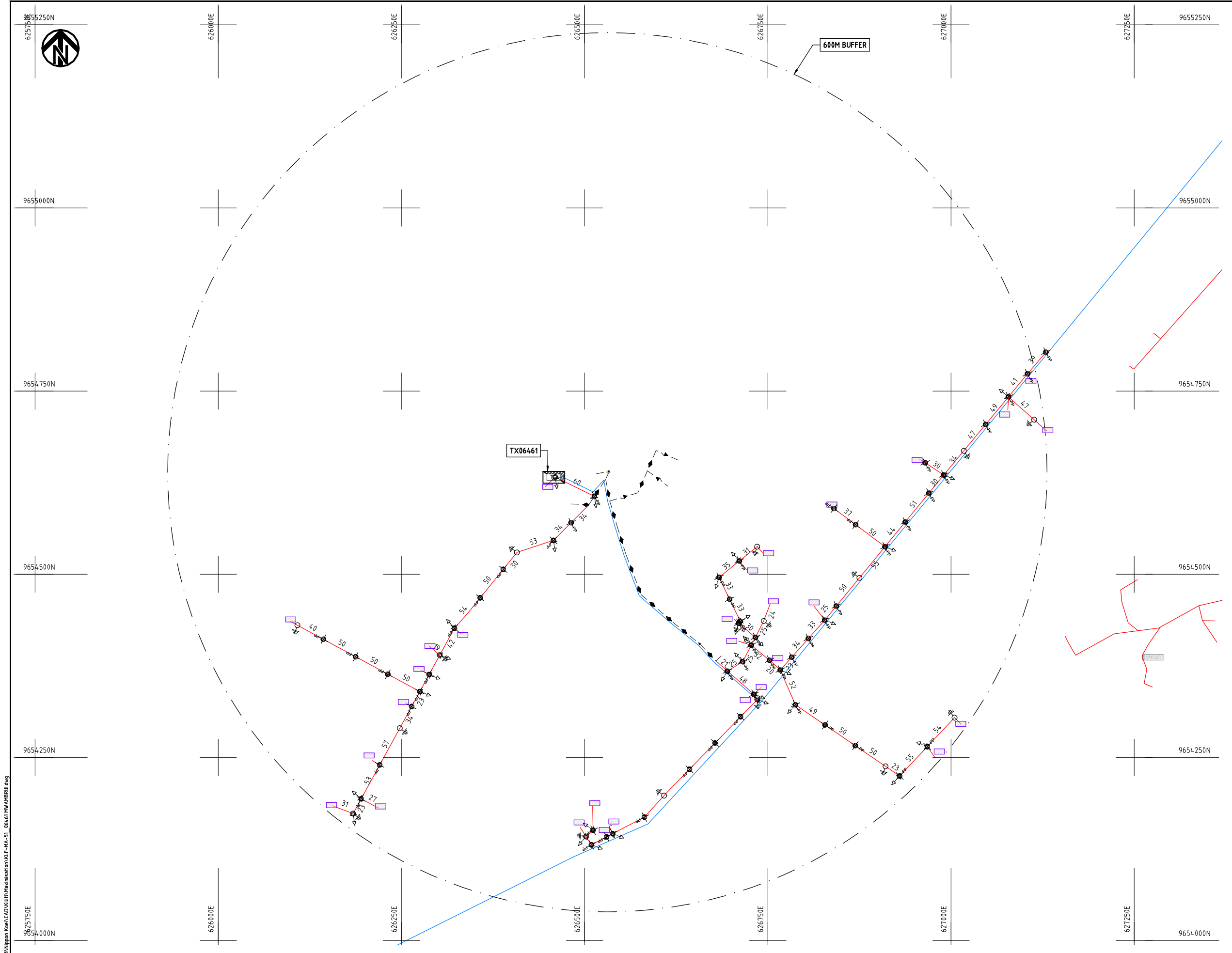
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-50\_20880\_Takaungu.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 20880 TAKAUNGU		KLF-MA-50	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

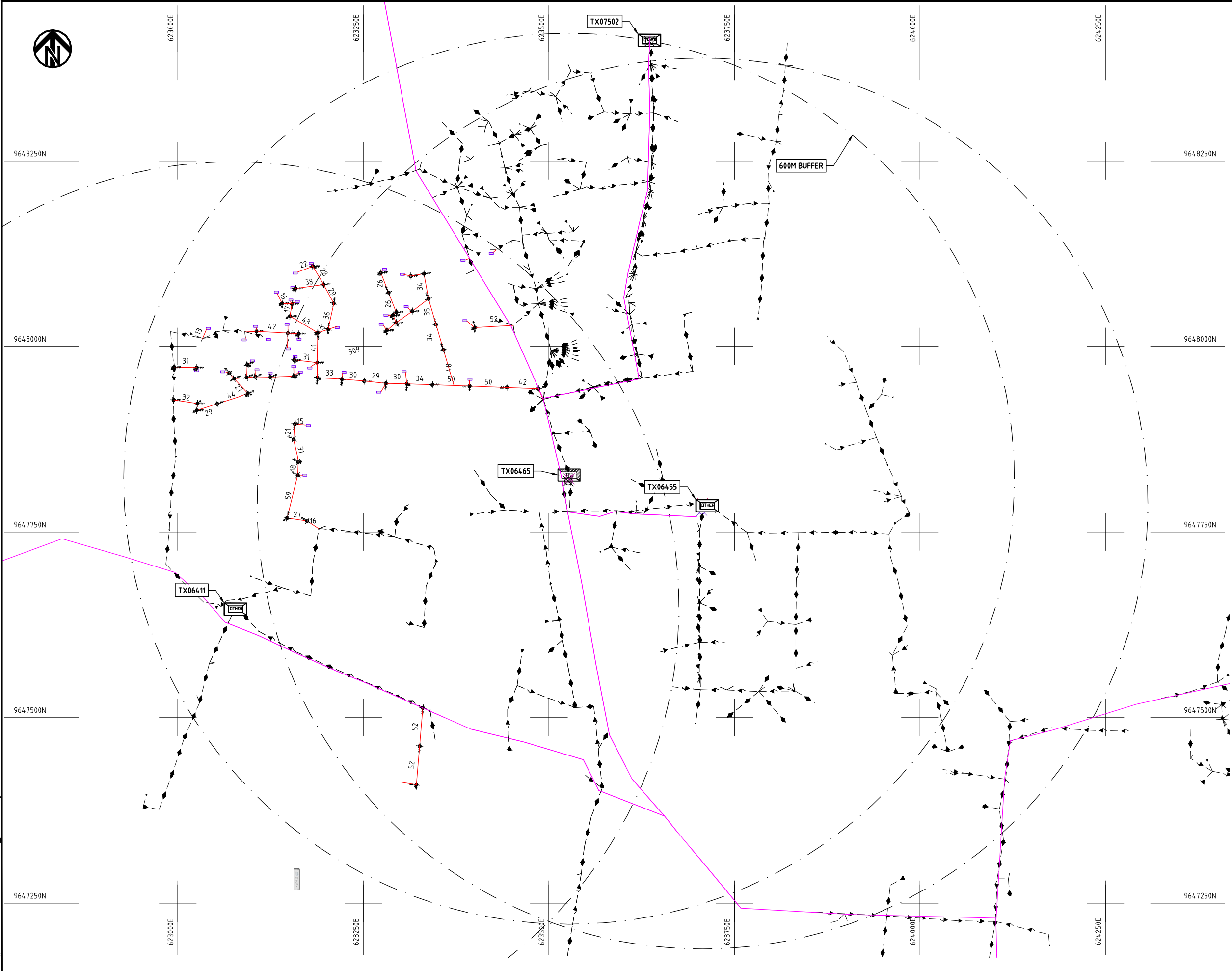
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



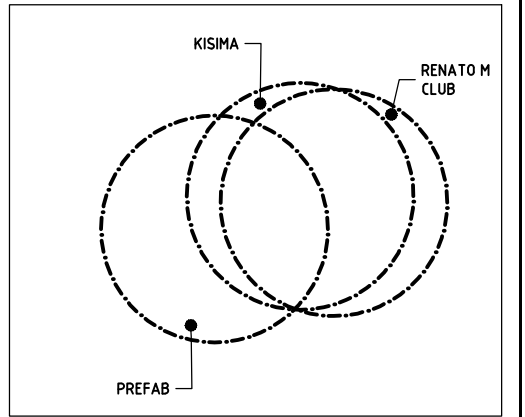
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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-51	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 06461 MWAMBURI			DATE	10th SEP 2018	



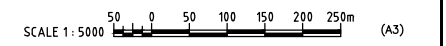


- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.



KEY PLAN

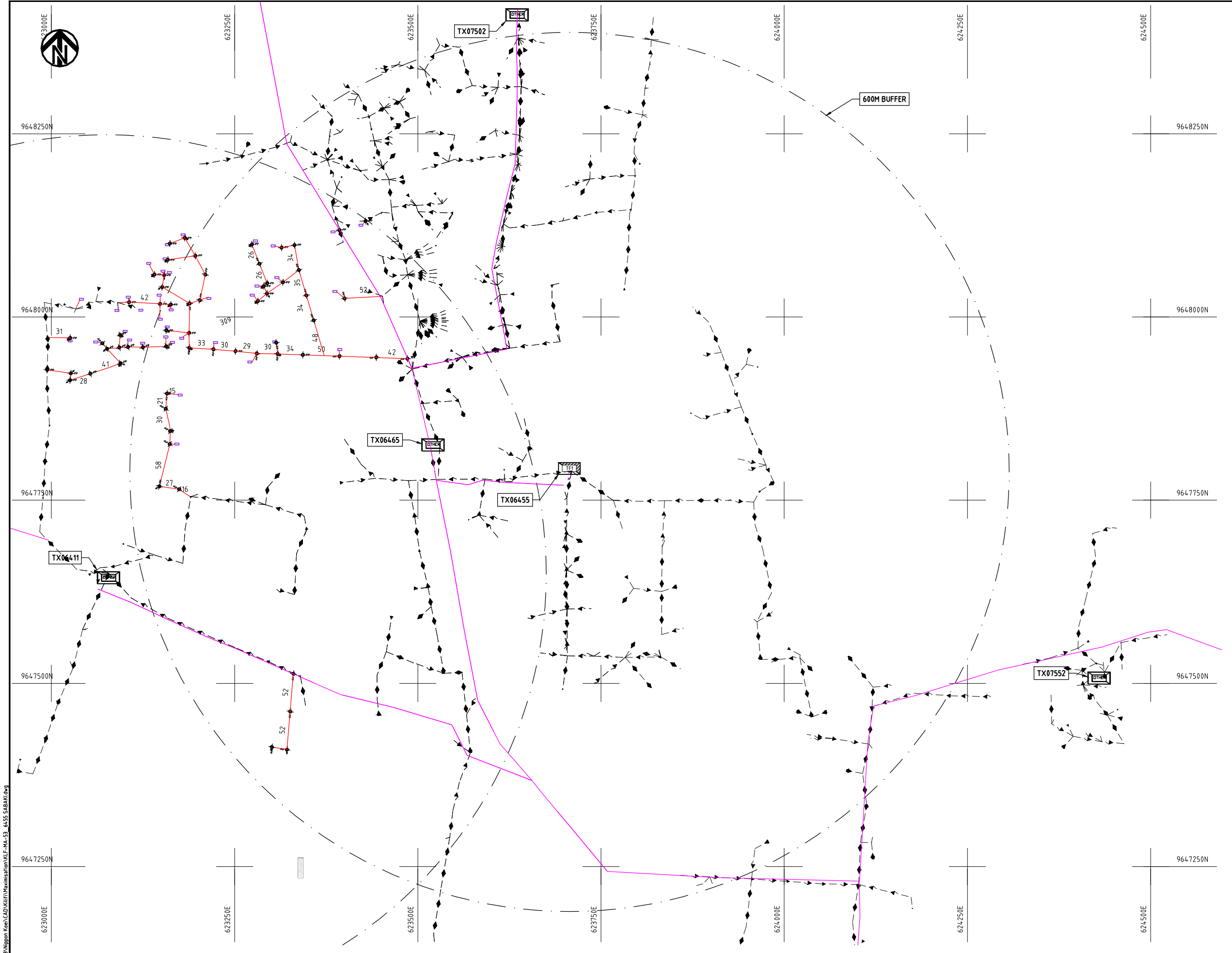
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



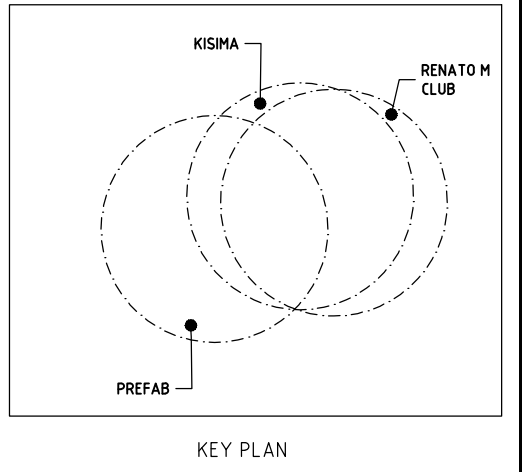
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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-52	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 06465-SABAKI			DATE	10th SEP 2018	

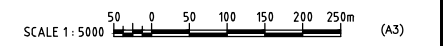




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.



- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY

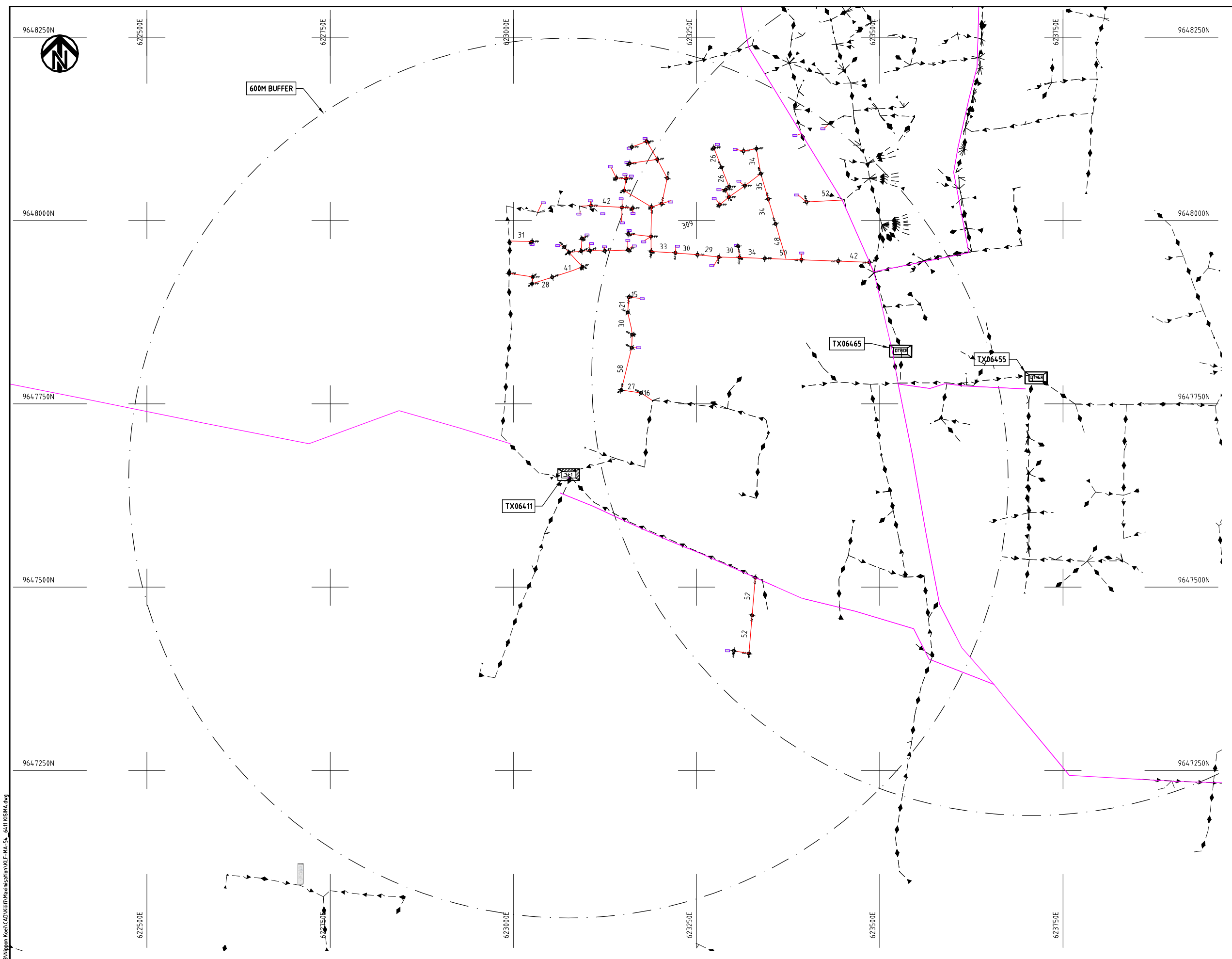


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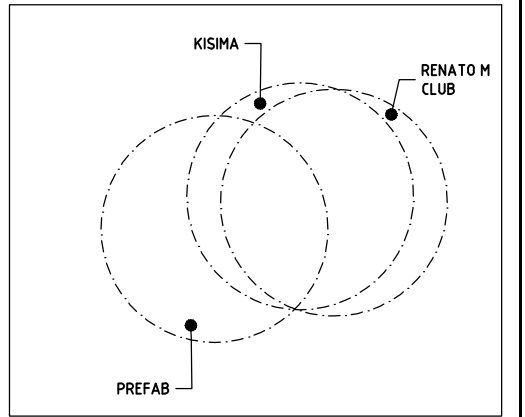
PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 06455-SABAKI		KLF-MA-53	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





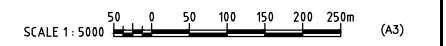


- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.



KEY PLAN

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - PP WOODEN ELECTRIC POLES
  - CP CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-54-6411-KISIMA.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-54	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 06411-KISIMA			DATE	10th SEP 2018	





558500E

558750E

559000E

559250E

559500E

559750E

560000E

9591000N

9591000N

9590750N

9590750N

9590500N

9590500N

9590250N

9590250N

9590000N

9590000N

558500E

558750E

559000E

559250E

559500E

559750E

560000E

600M BUFFER

TX19529

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: KILIFI  
SCHEME: MAXIMIZATION  
PROJECT SITE: 19529 VIRAGONI

DRAW. NO.

KLF-MA-55

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018

NIPPON KOEI CO., LTD



579750E

580000E

580250E

580500E

580750E

581000E

581250E

9565750N

9565750N

9565500N

9565500N

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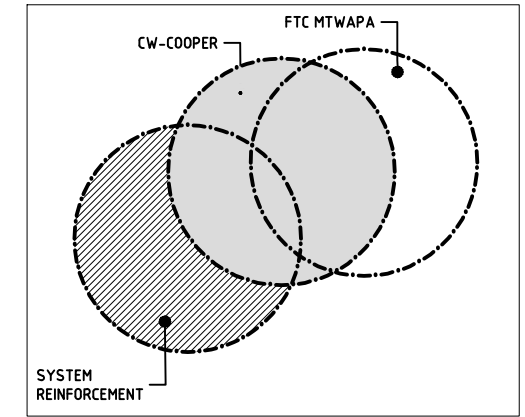
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581000E

581250E

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



KEY PLAN

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



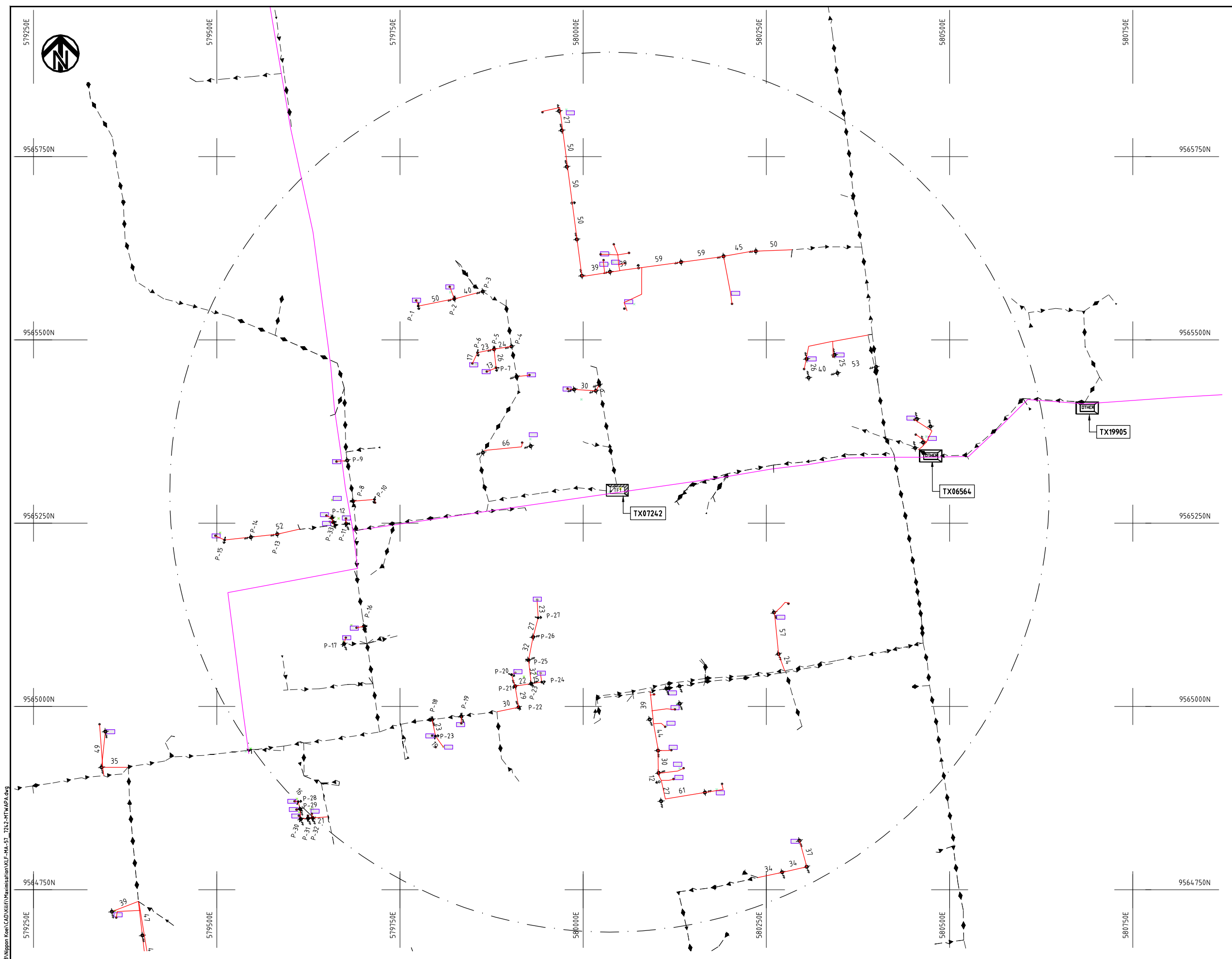
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PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

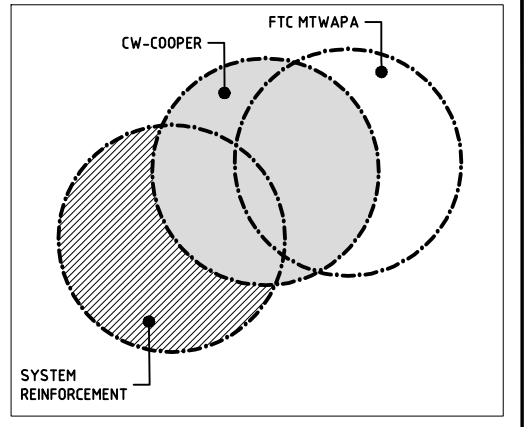
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 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 06564-MTWAPA

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-56	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



KEY PLAN

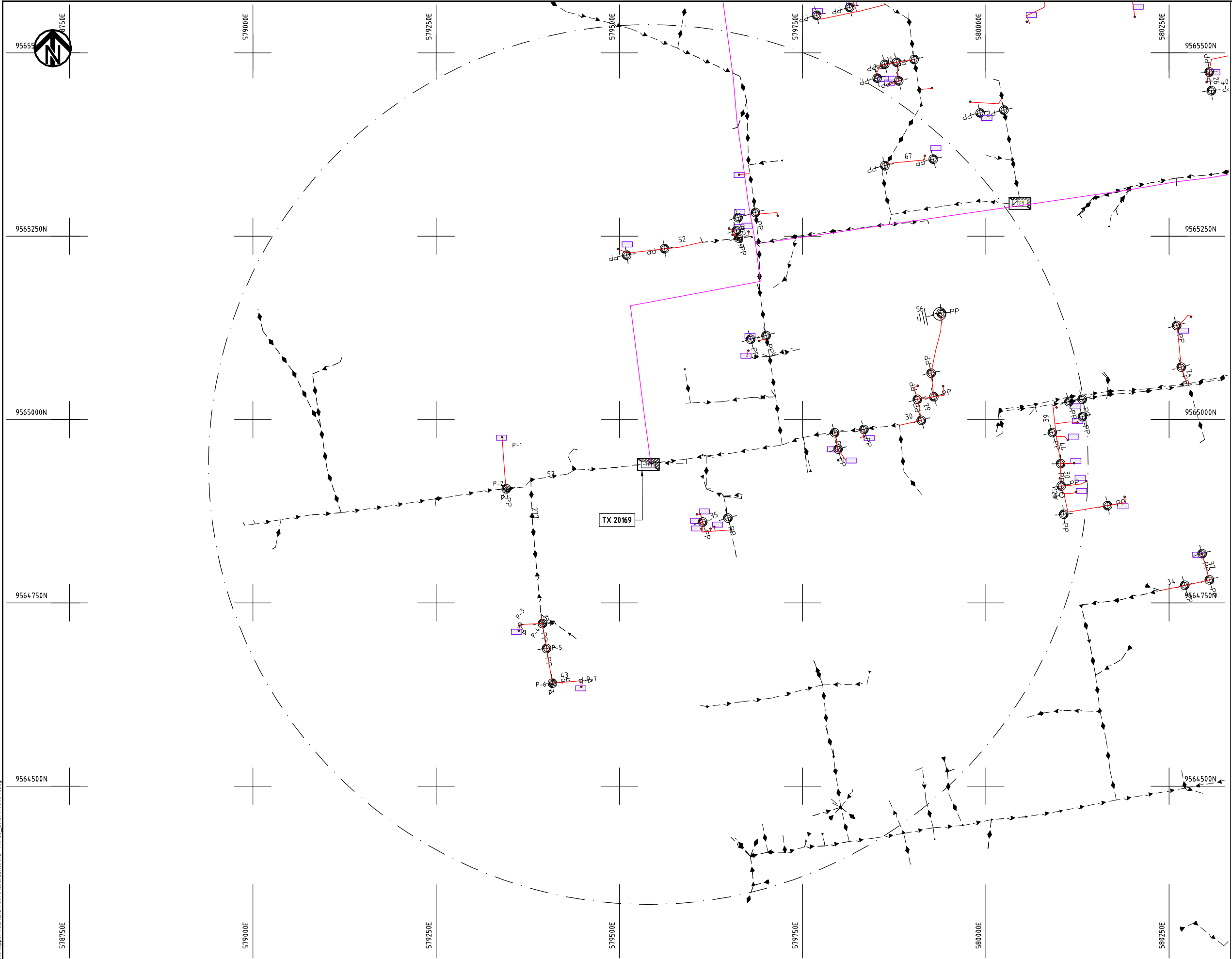
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED 11kV
  - PROPOSED 33kV
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES 12M
  - CONCRETE ELECTRIC POLES 11M
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



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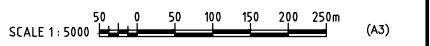
PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 7242-MTWAPA		KLF-MA-57	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

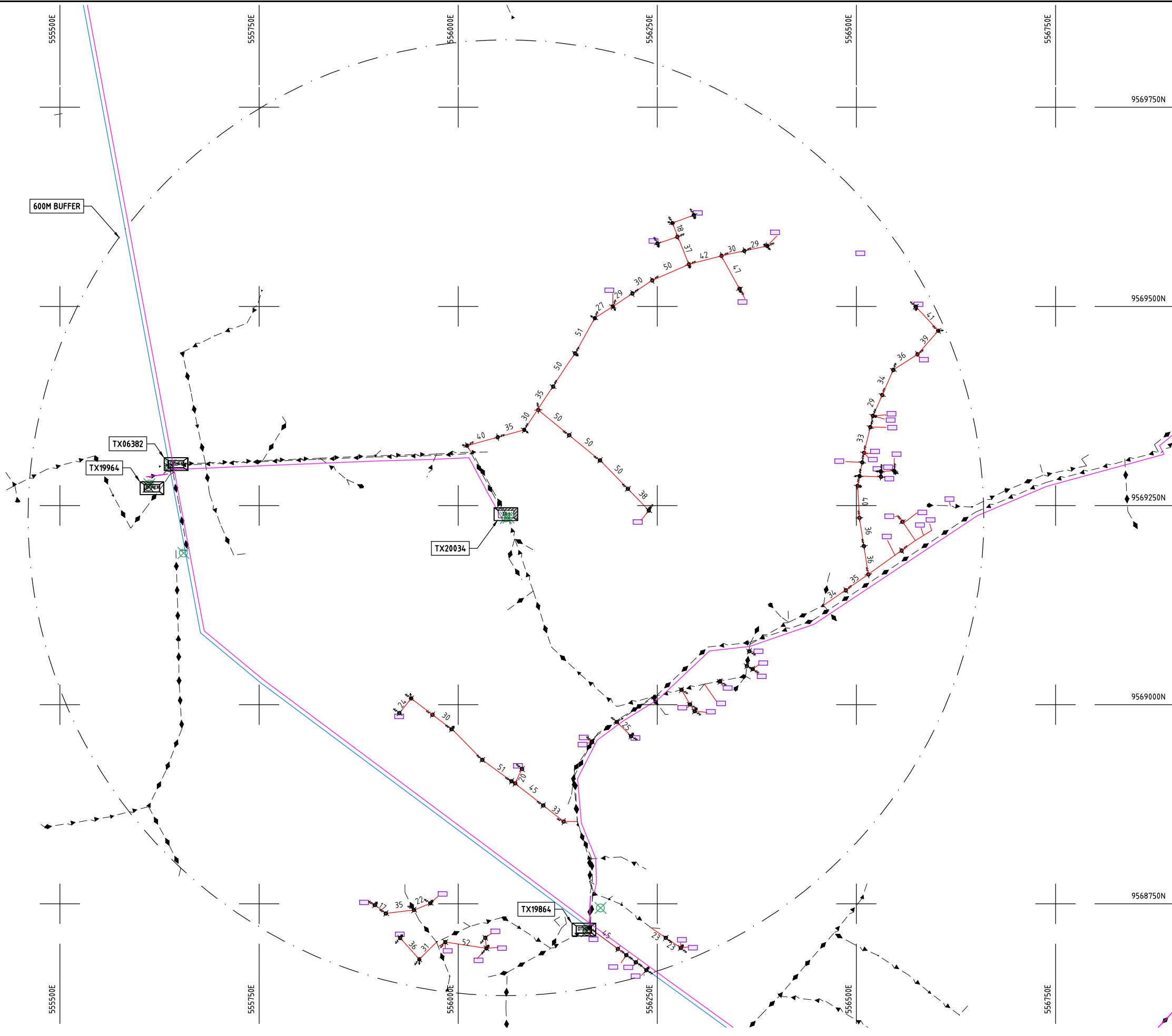
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



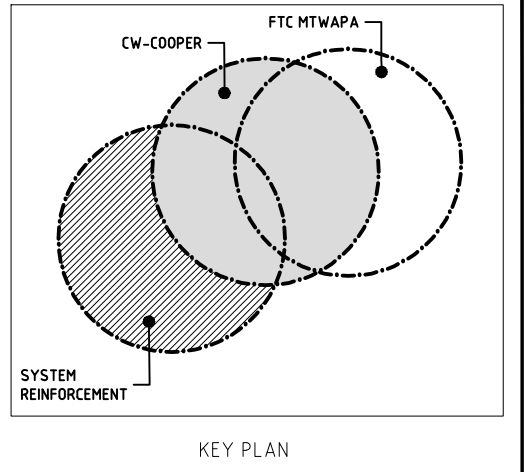
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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-58	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 20169 MTWAPA			DATE	10th SEP 2018	





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.



- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY

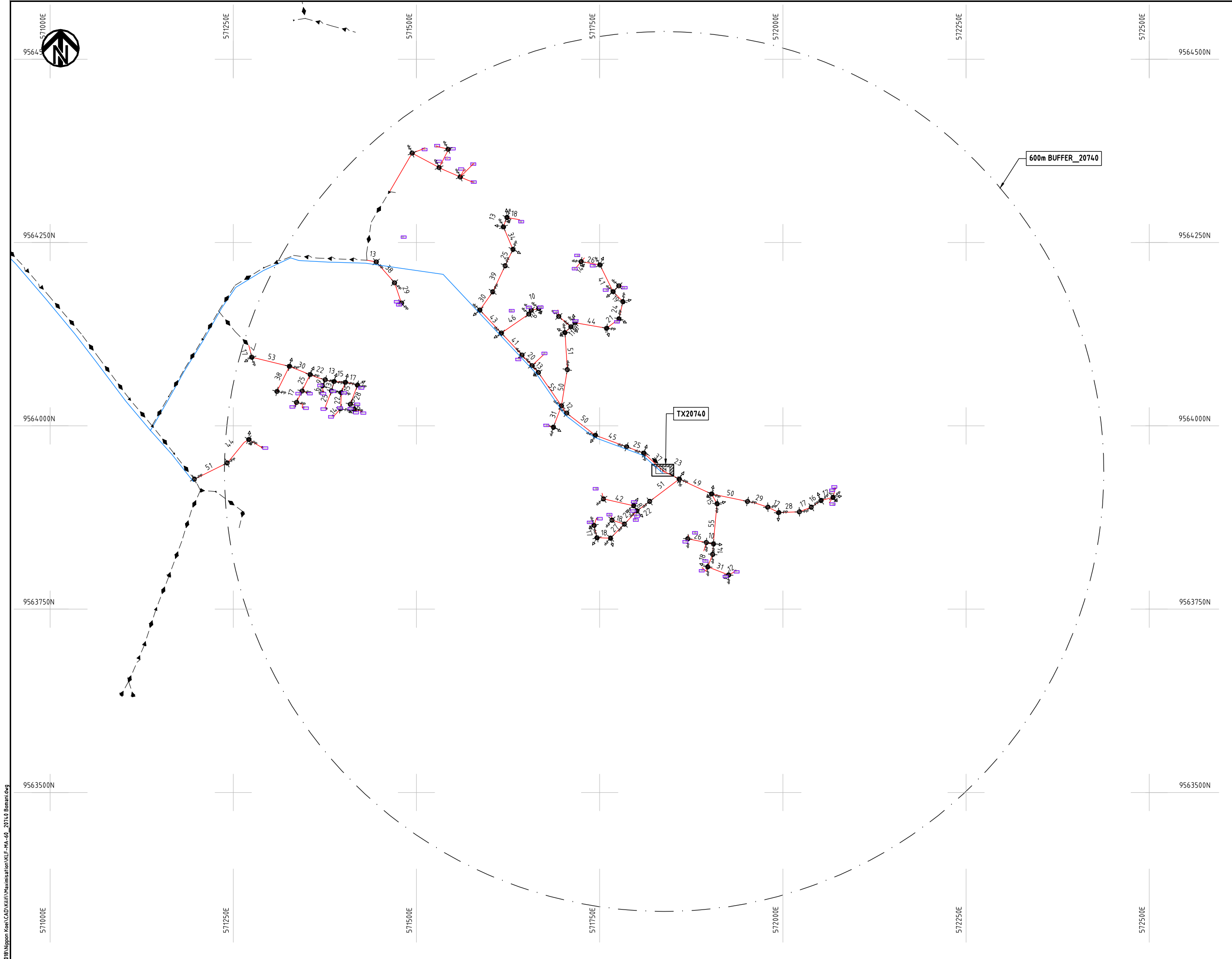


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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 20034 - MARIAKANI SLAUGHTER		KLF-MA-59	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018







- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

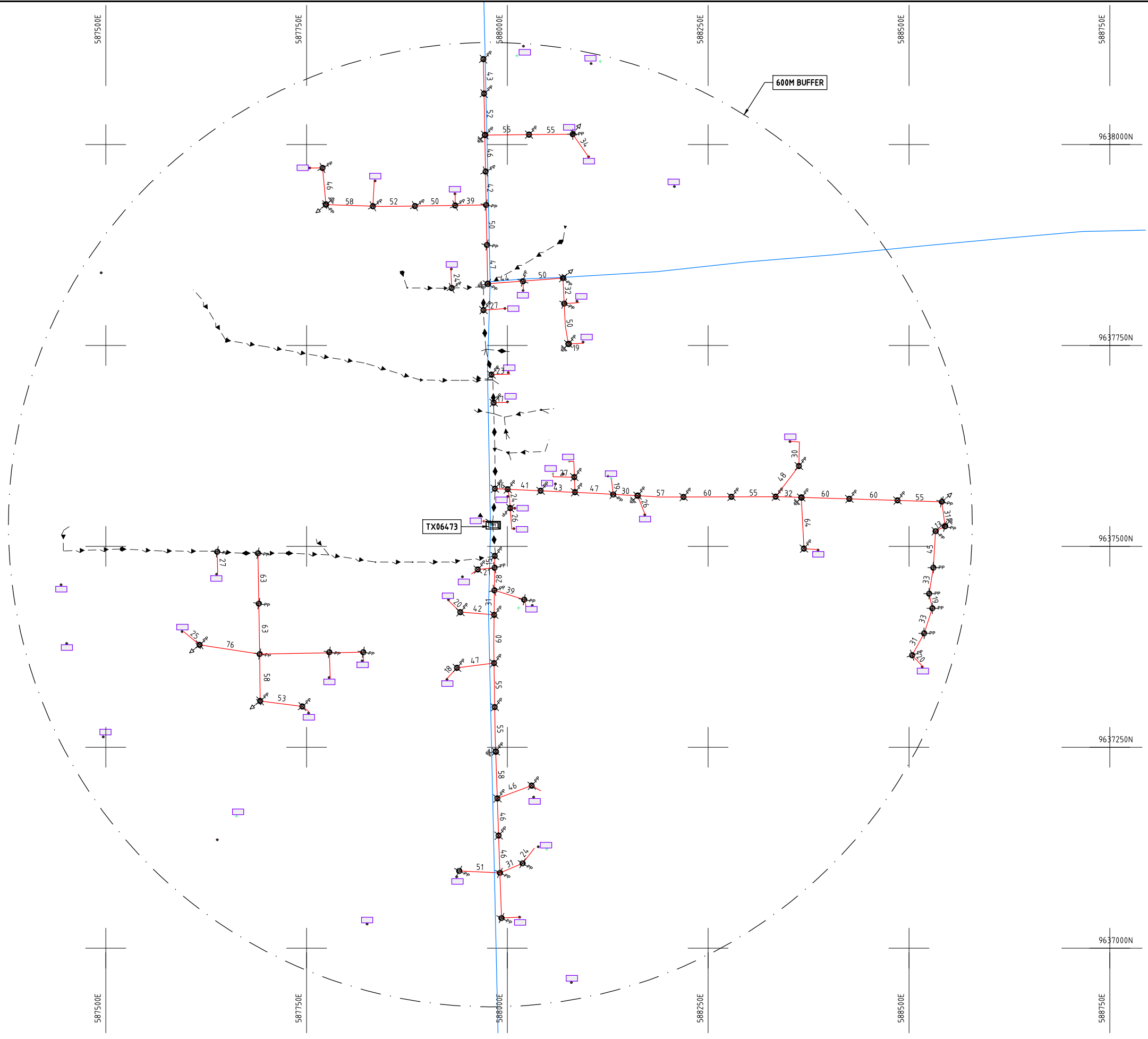
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 20740 BOMANI		KLF-MA-60	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



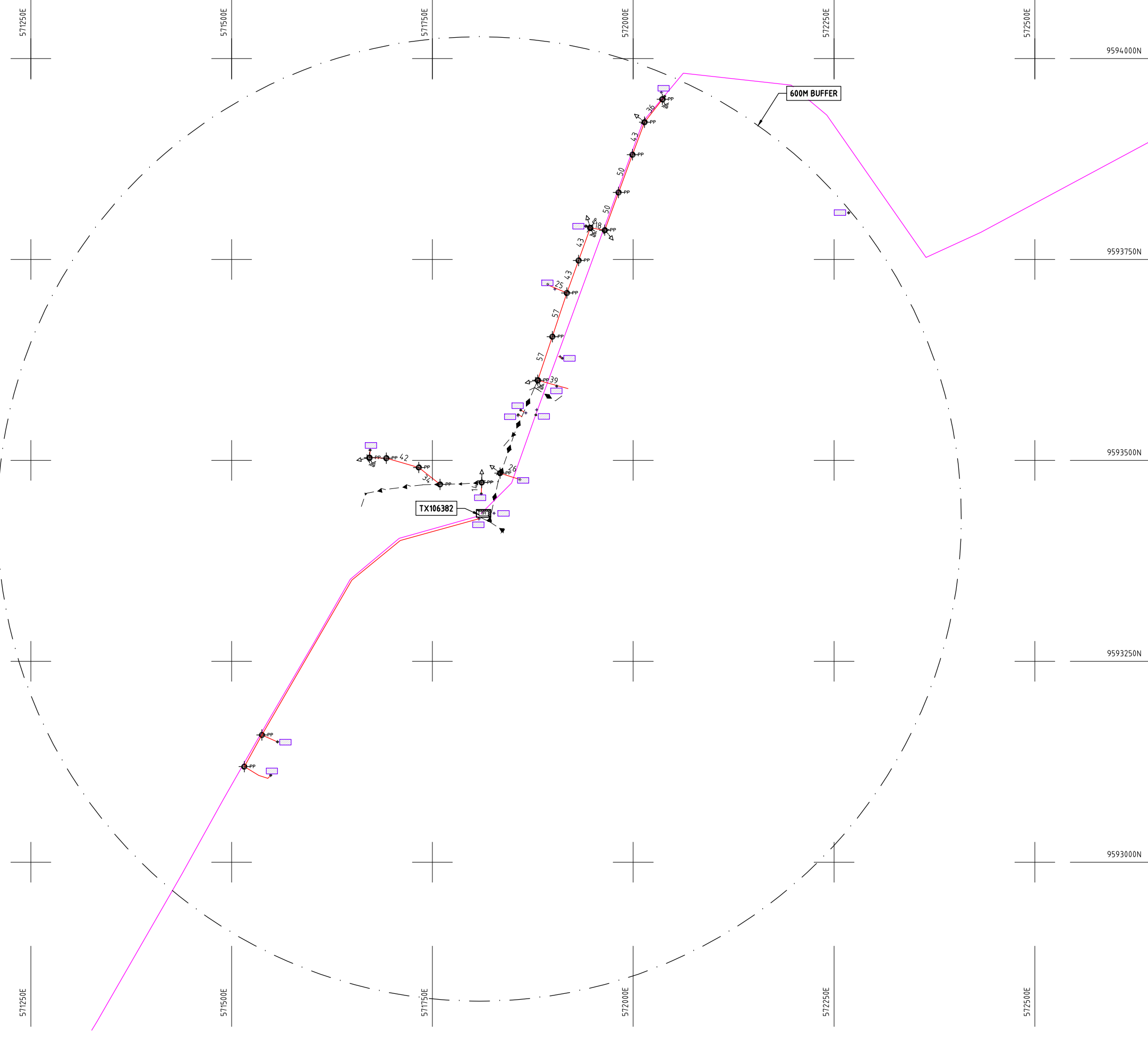
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PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 06473-KIRUBI

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-61	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



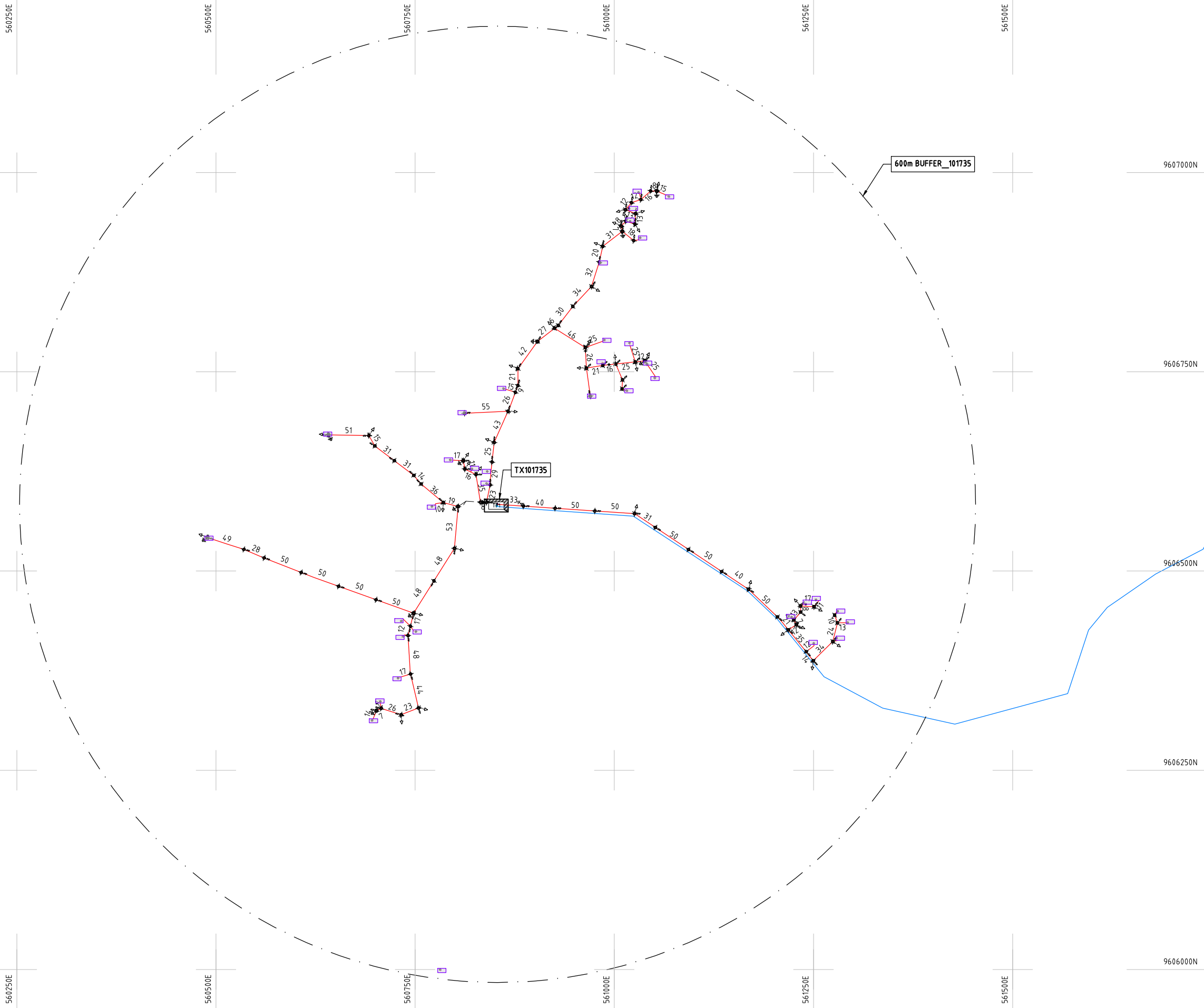
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PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 106382 MIGUMOMIRI

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-62	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



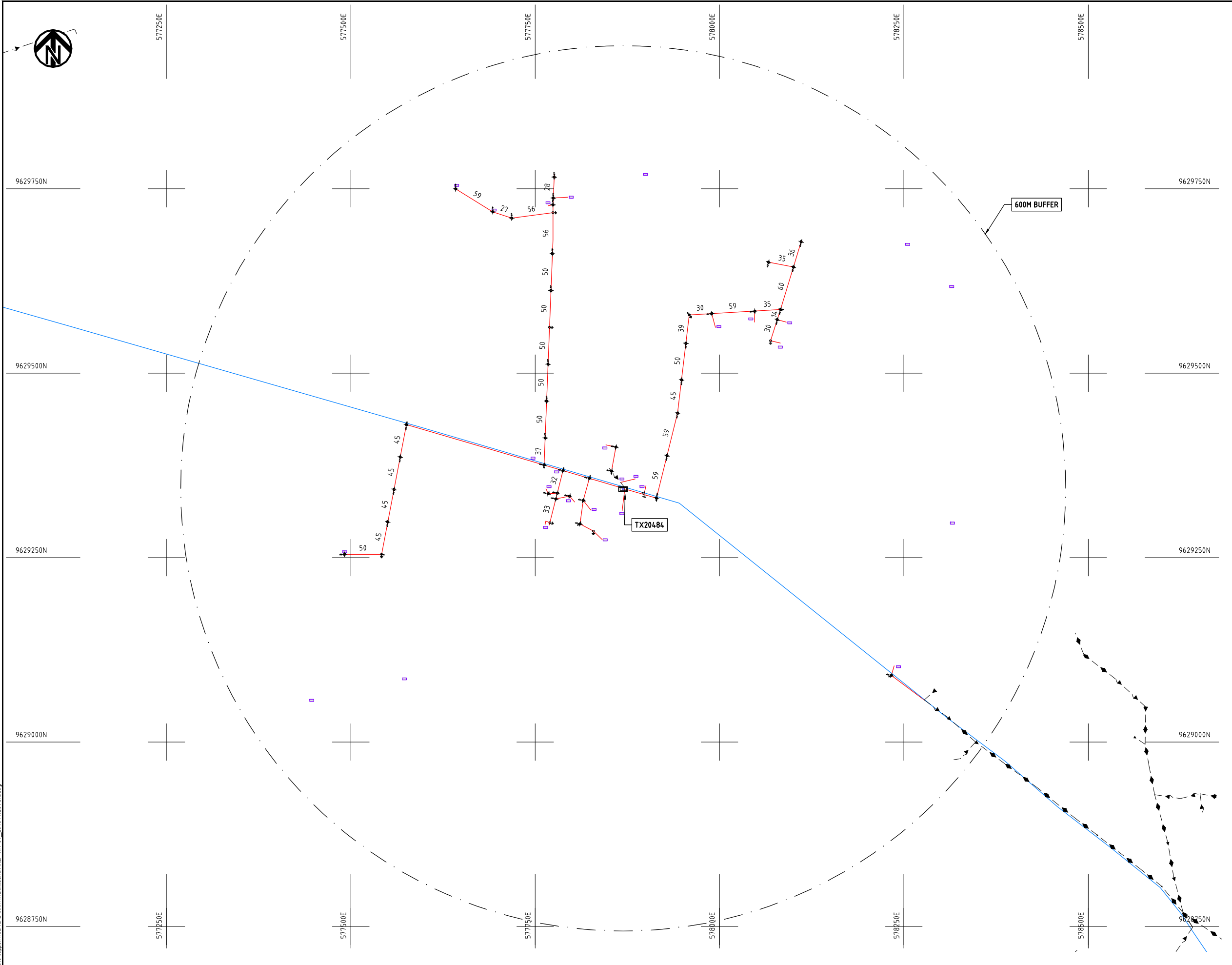
PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 101735 KALONGONI

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-63	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-63-101735\_Kalolongoni.dwg



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-64\_20484\_NZOVUNI.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-64	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 20484-NZOVUNI			DATE	10th SEP 2018





9604250N

554250E

554500E

554750E

555000E

555250E

555500E

9604250N

9604000N

9604000N

9603750N

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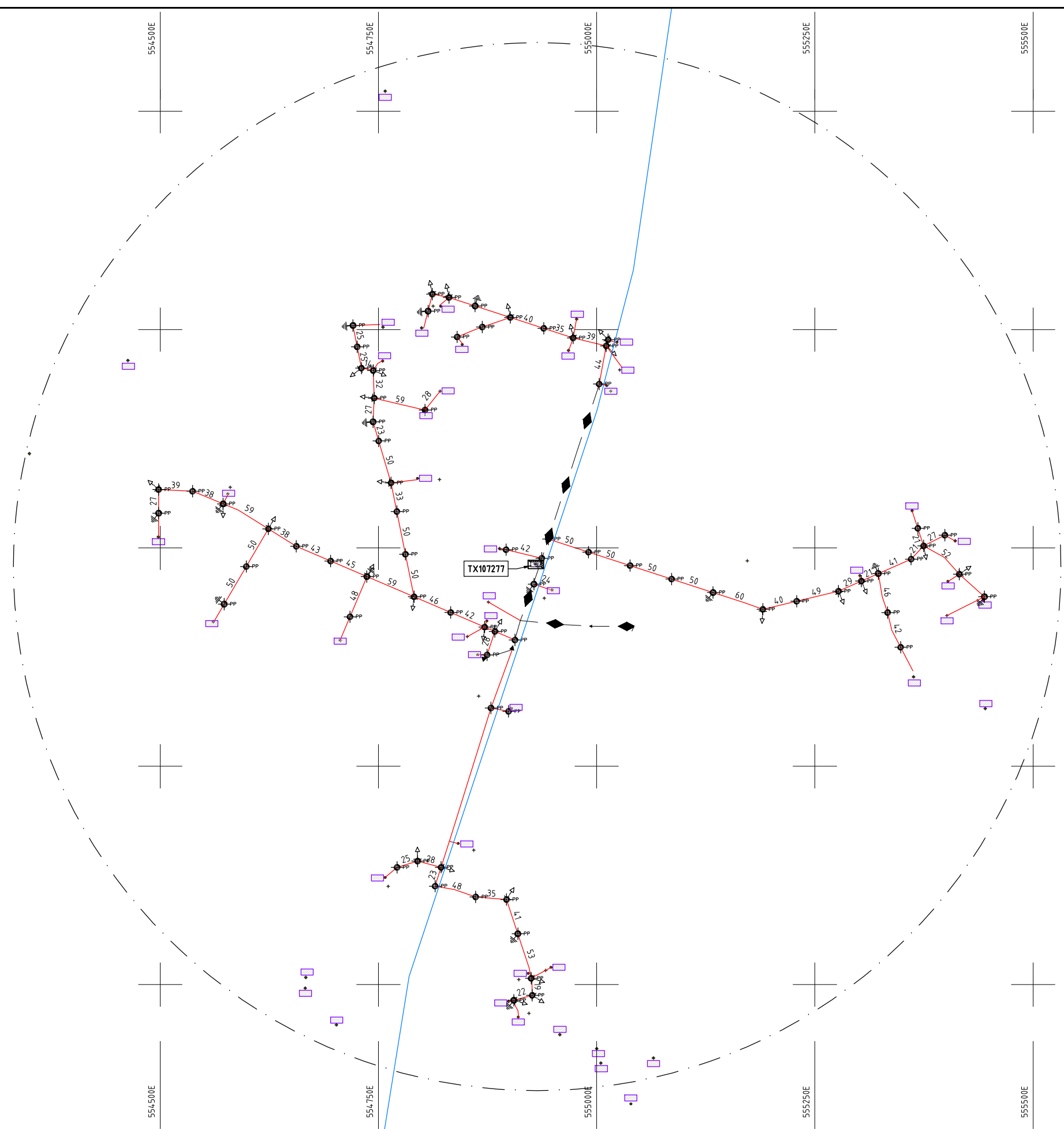
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**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

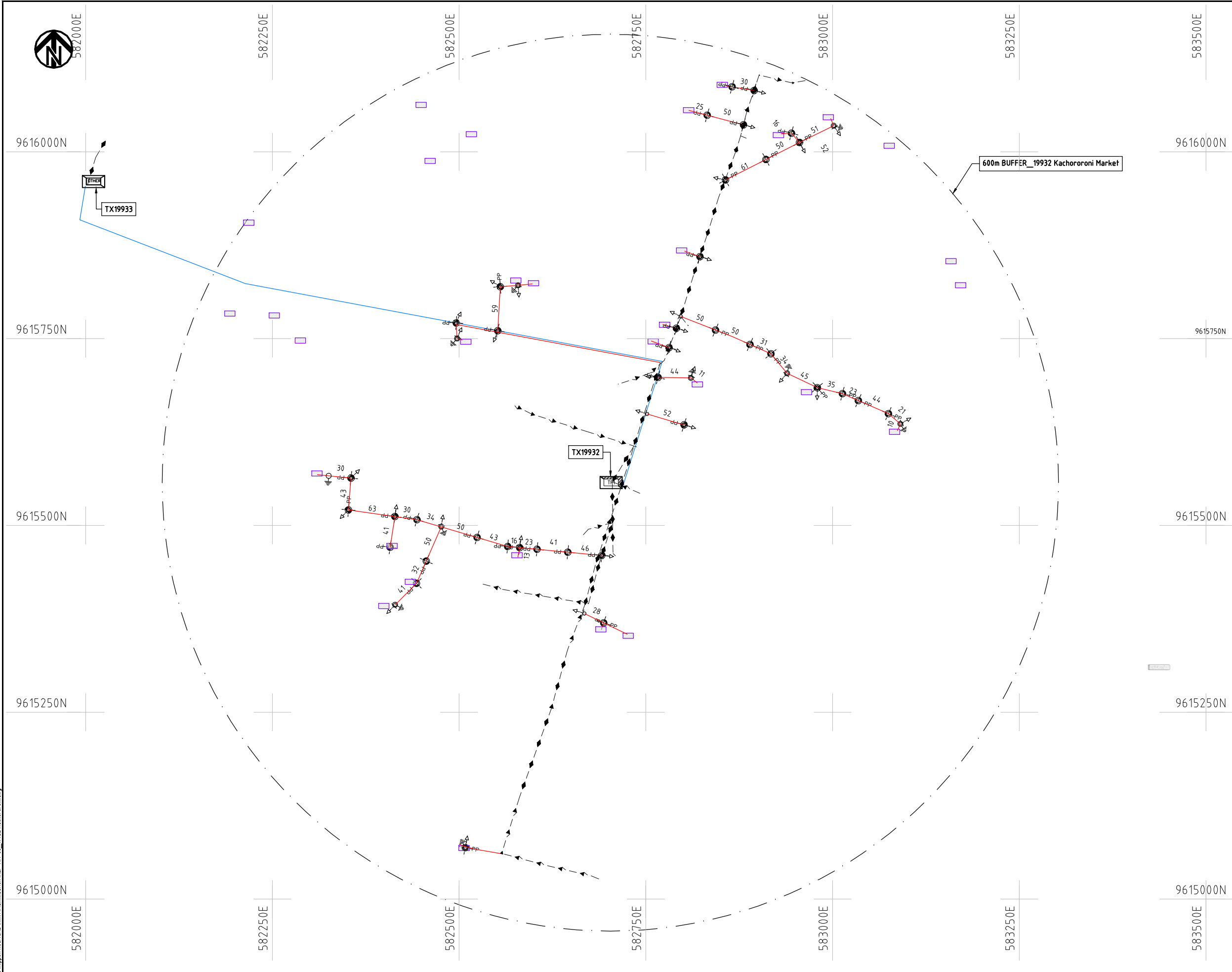


PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-65	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 107277 CHAPUNGU			DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-65-107277 CHAPUNGU.dwg





**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

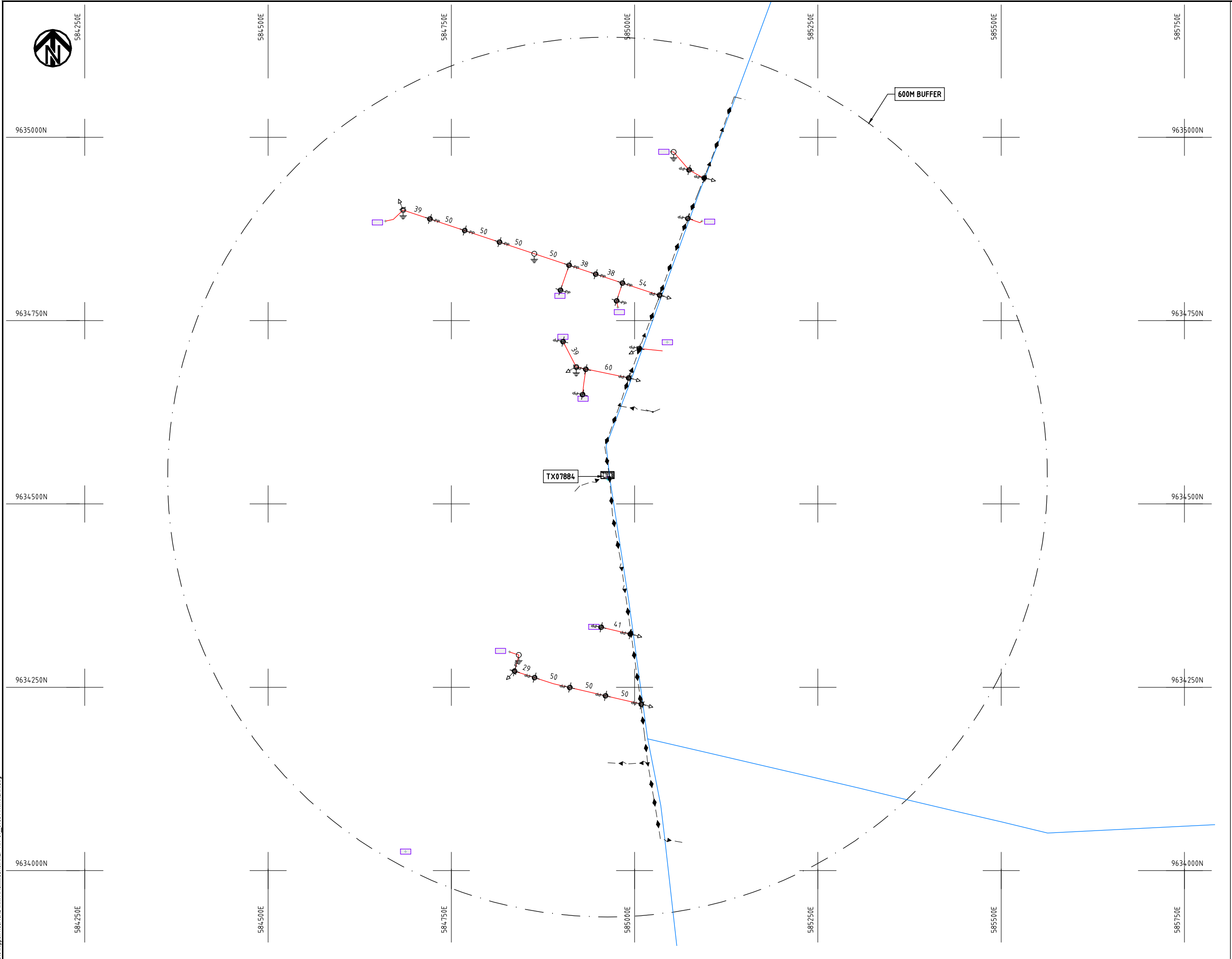
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-66\_19932\_Kachororoni.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 19932 KACHORORONI		KLF-MA-66	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

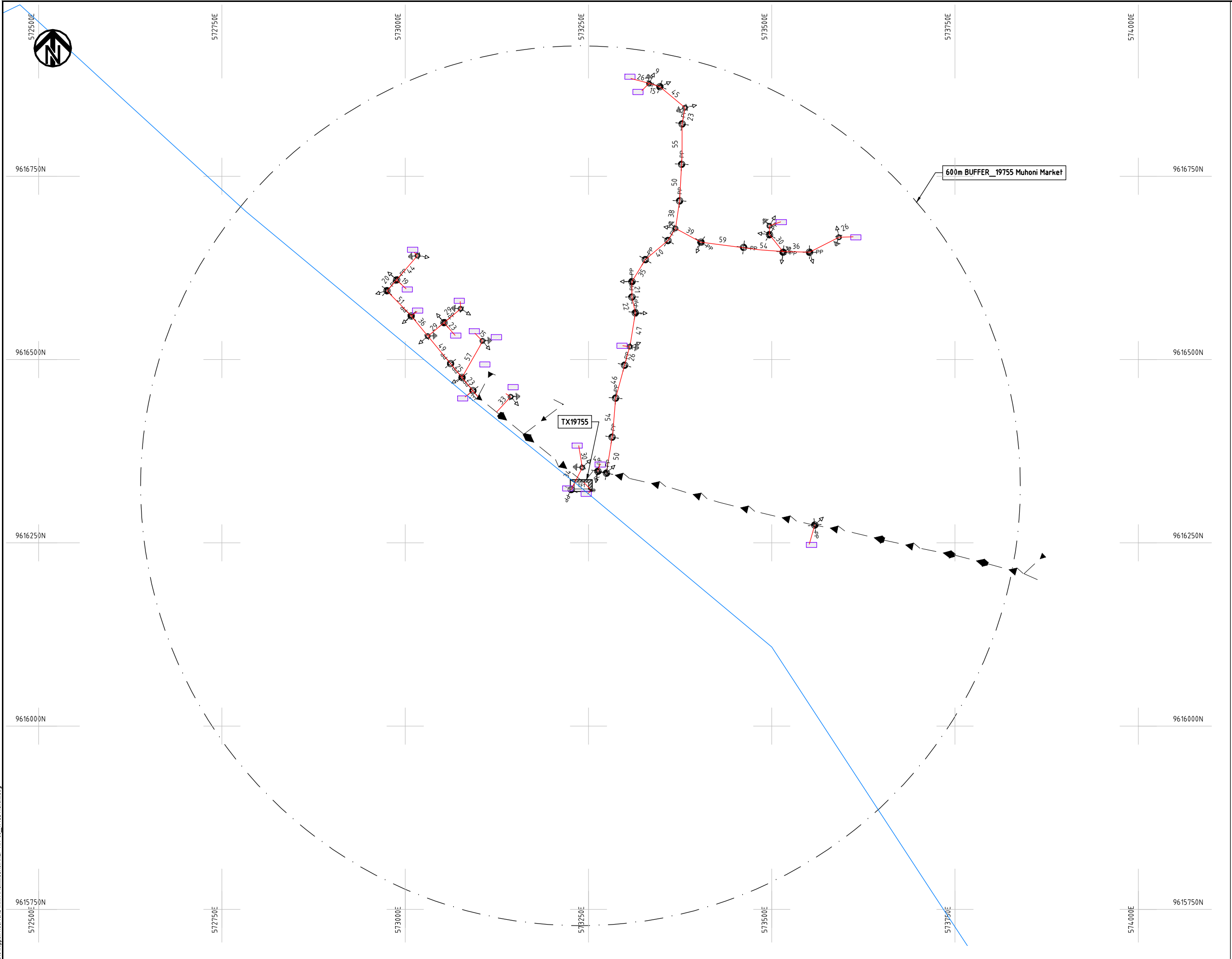
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-67\_07884\_MWAHERA.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-67	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 07884-MWAHERA			DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

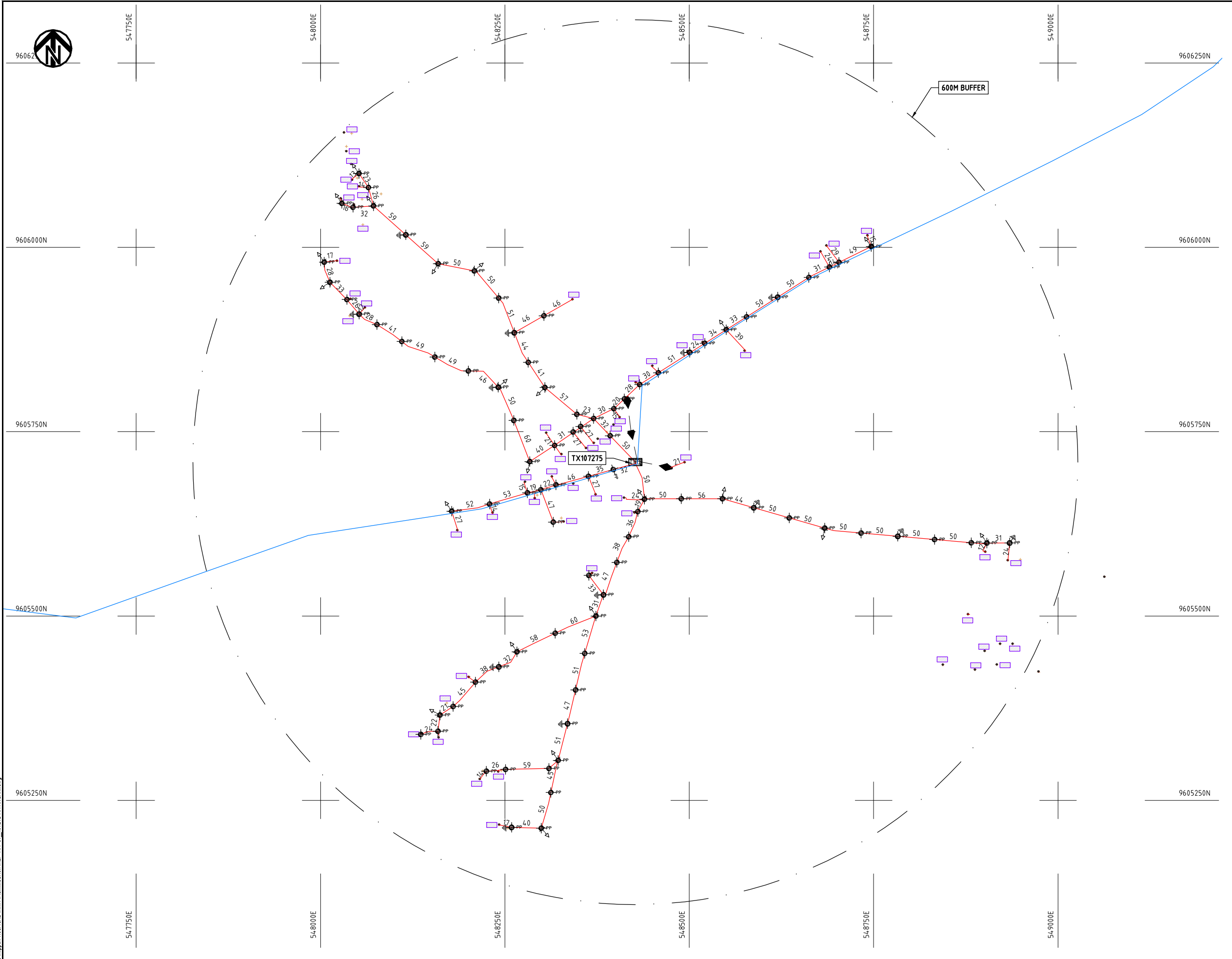
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-68-19755 Muhoni.dwg

PROJECT: <b>THE PREPARATORY SURVEY          ON THE PROJECT FOR IMPROVEMENT          OF POWER DISTRIBUTION SYSTEM          IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 19755 MUHONI		KLF-MA-68	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

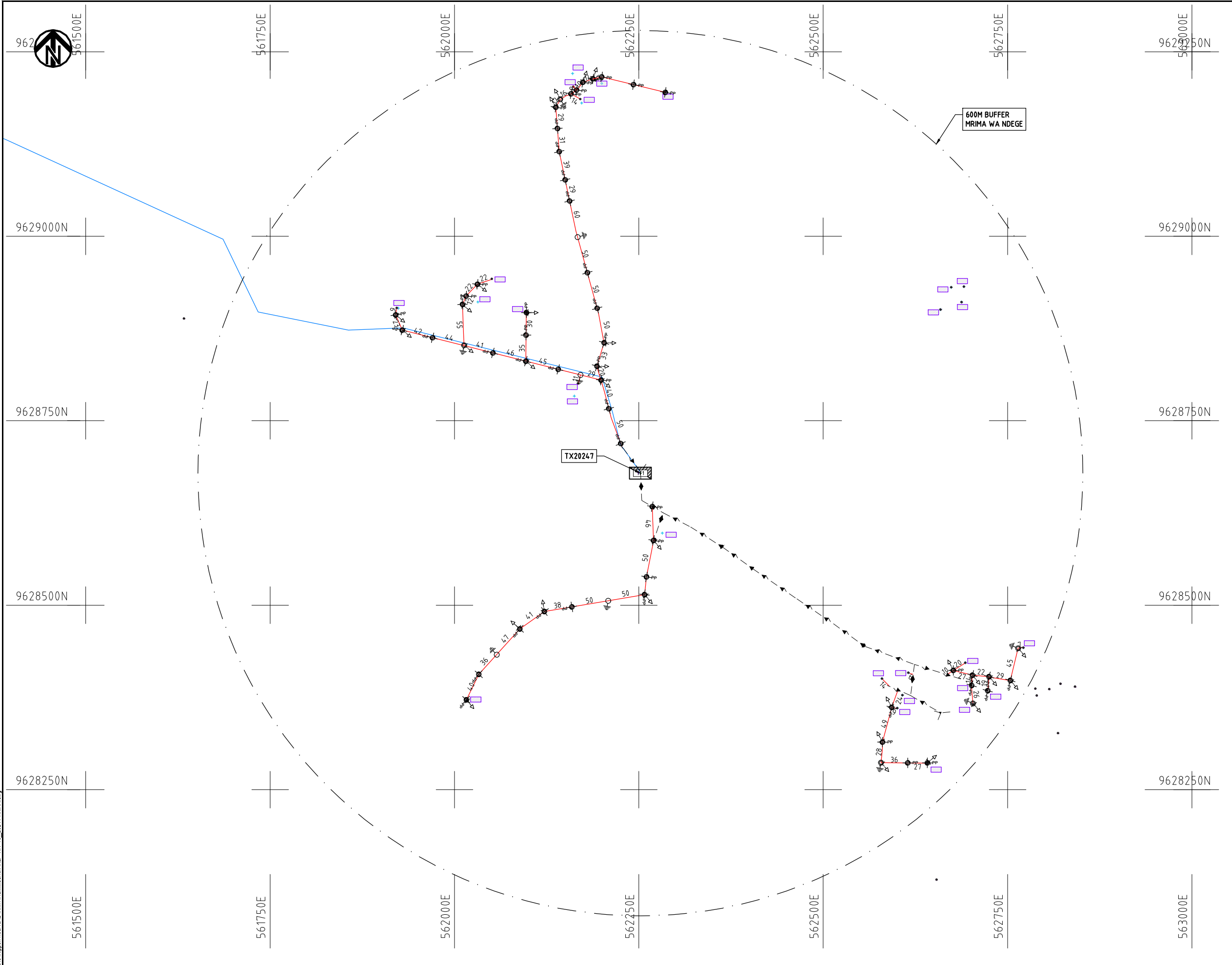
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-69-107275 MITANGANI.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 107275 MITANGANI		KLF-MA-69	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

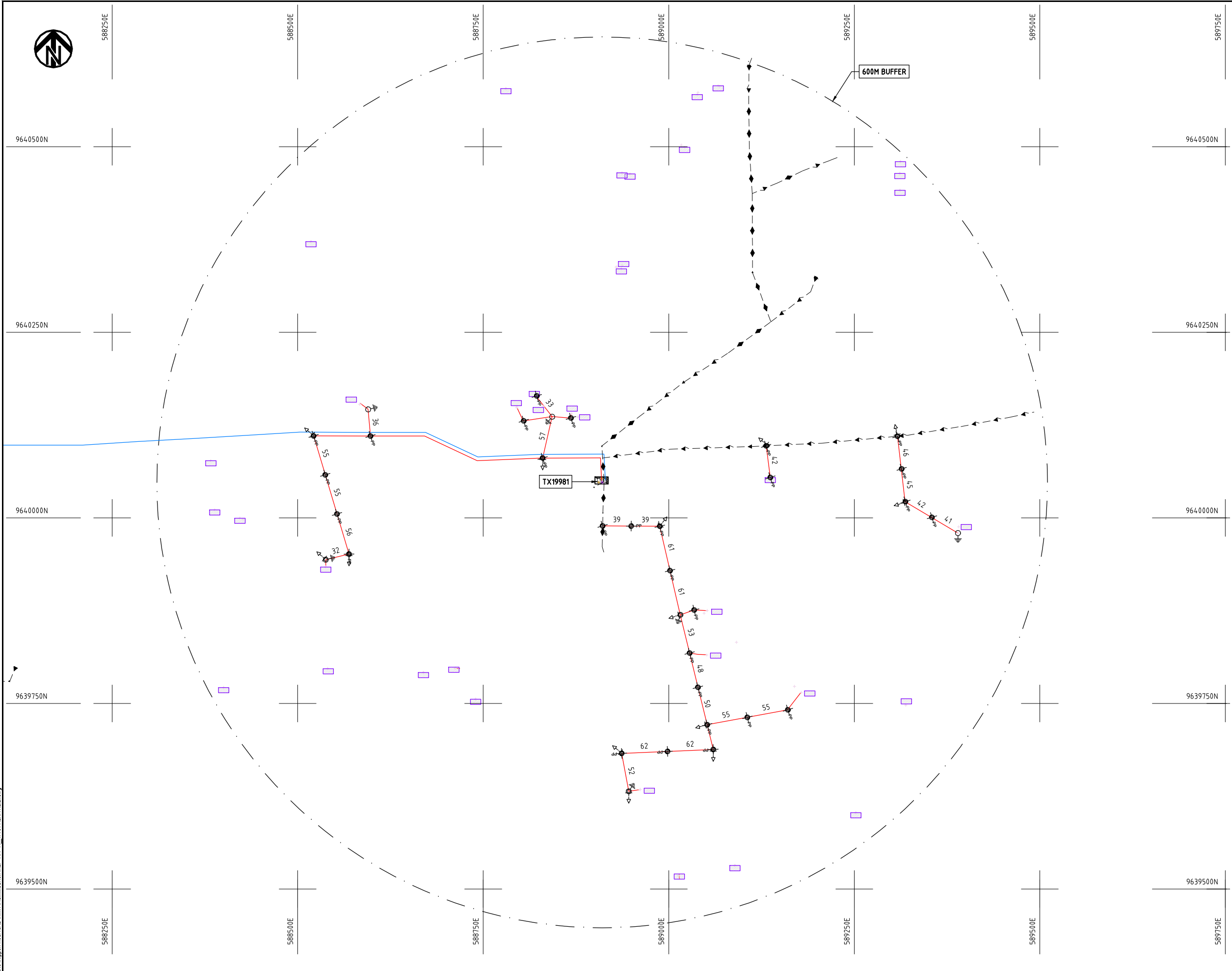
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-70\_20247\_MRIMA.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-70	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 20247 MRIMA		DATE		10th SEP 2018	





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

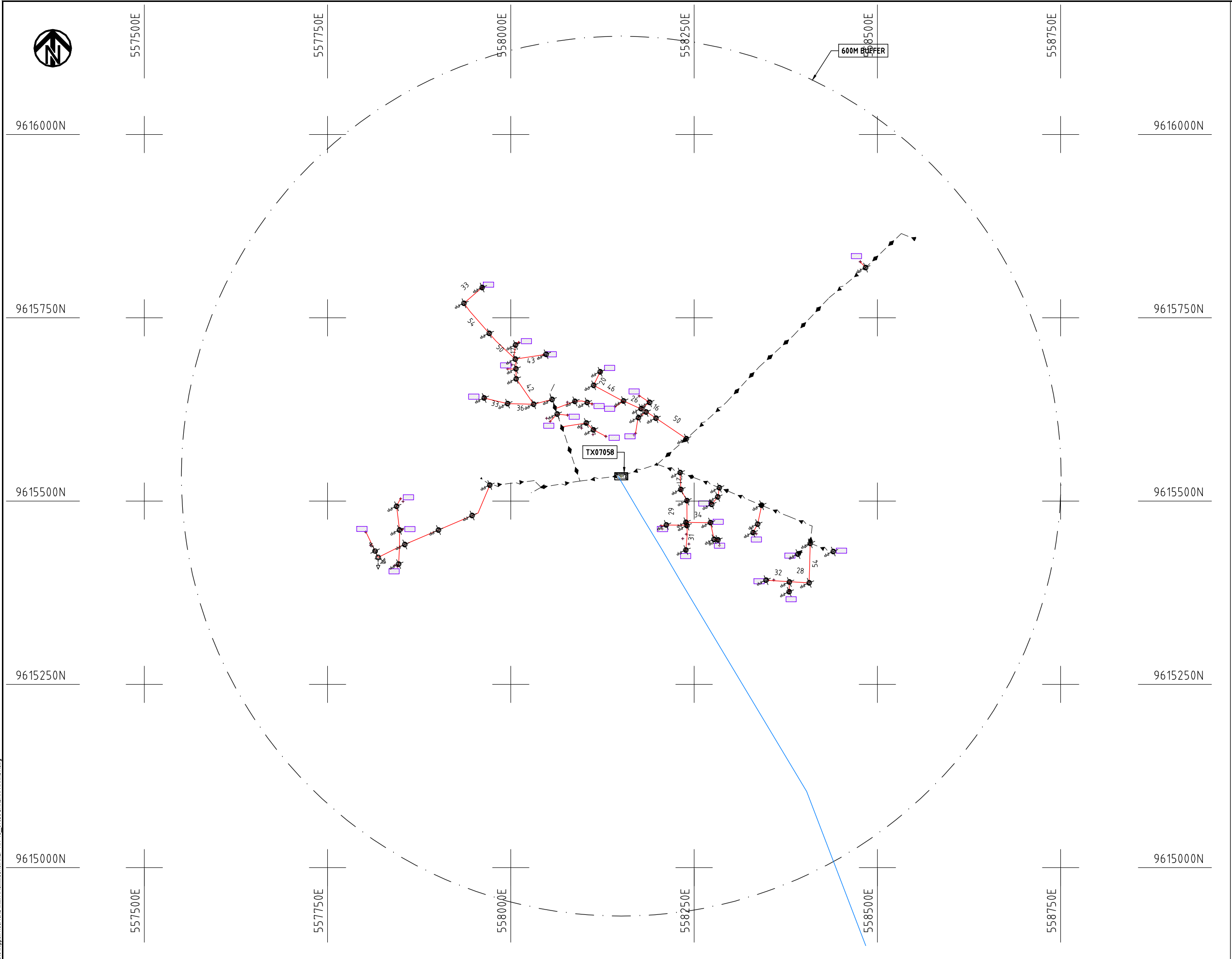


Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-71\_19981 MEKATILILI.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE <b>COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 19981 MEKATILILI</b>		DRAW. NO.	PREPARED BY	A.AKBAR
			KLF-MA-71	CHECKED BY	S.MAETA
		APPROVED BY	Y.TANAKA	DATE	10th SEP 2018







- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

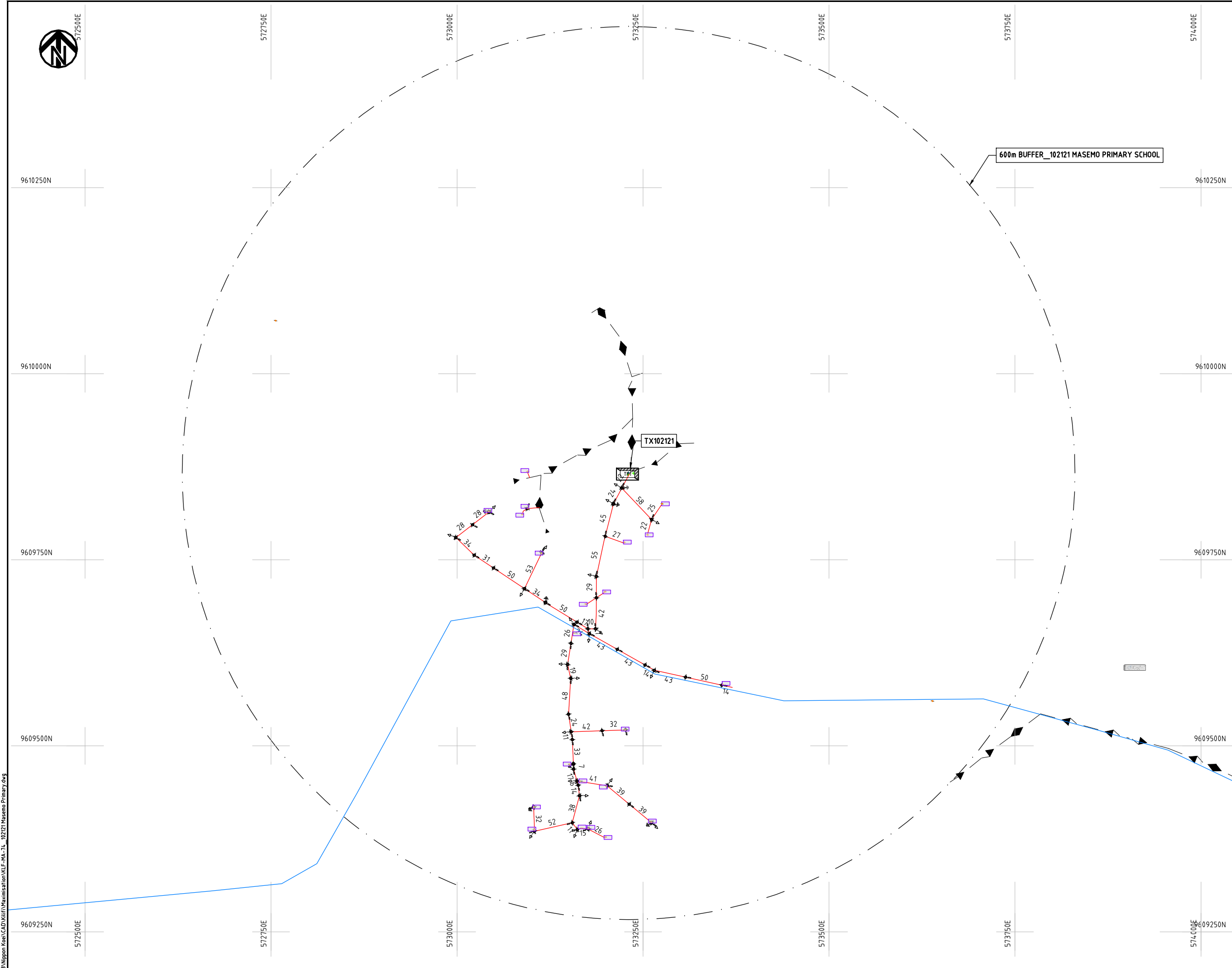
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-73\_07058 BANDARI MARKET.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-73	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 07058 BANDARI MARKET		DATE		10th SEP 2018	





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

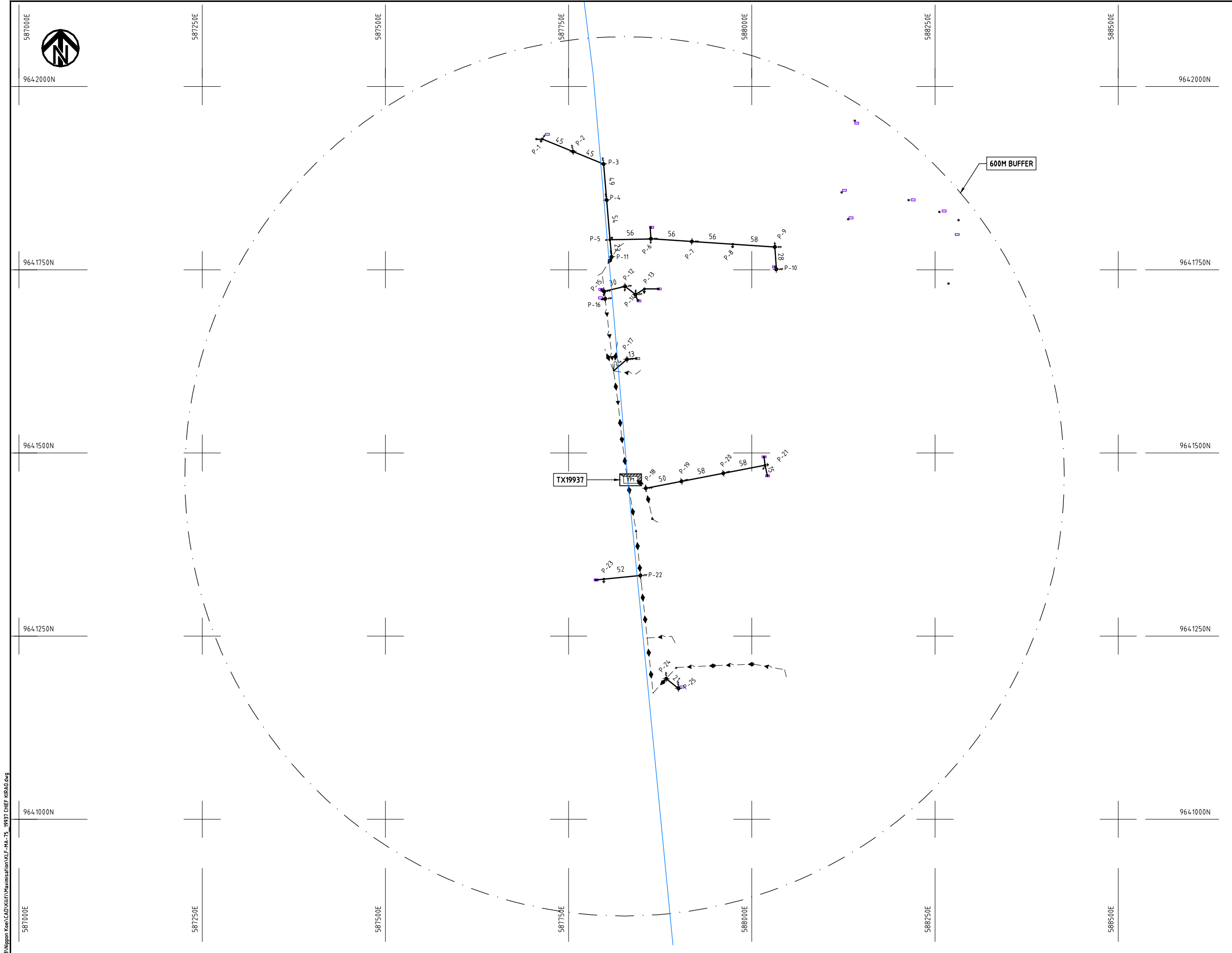
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-74\_102121 Masemo Primary.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 102121 MASEMO PRIMARY		KLF-MA-74	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

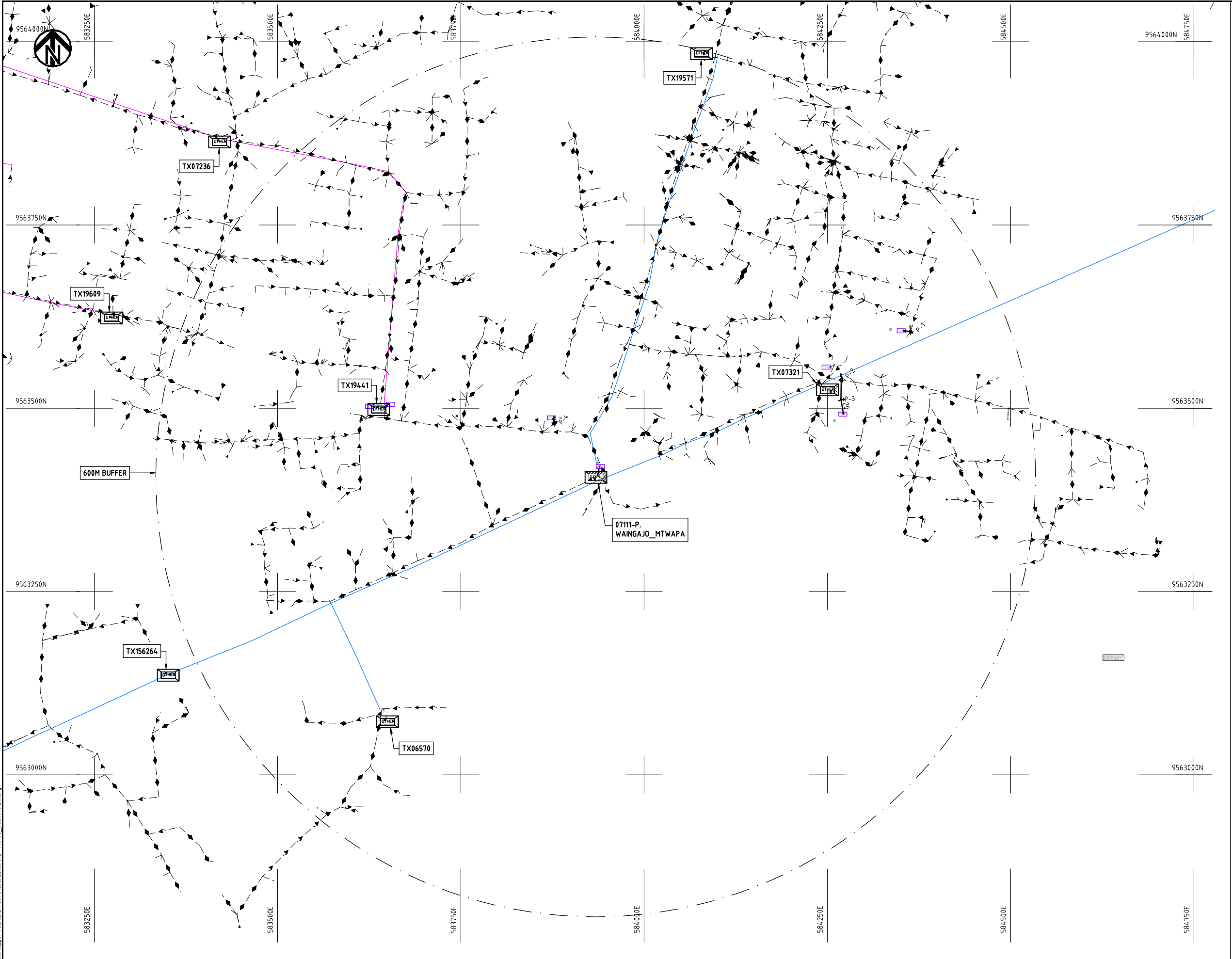
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-75\_19937\_CHIEF\_KIRA0.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-75	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 19937-CHIEF KIRA0			DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

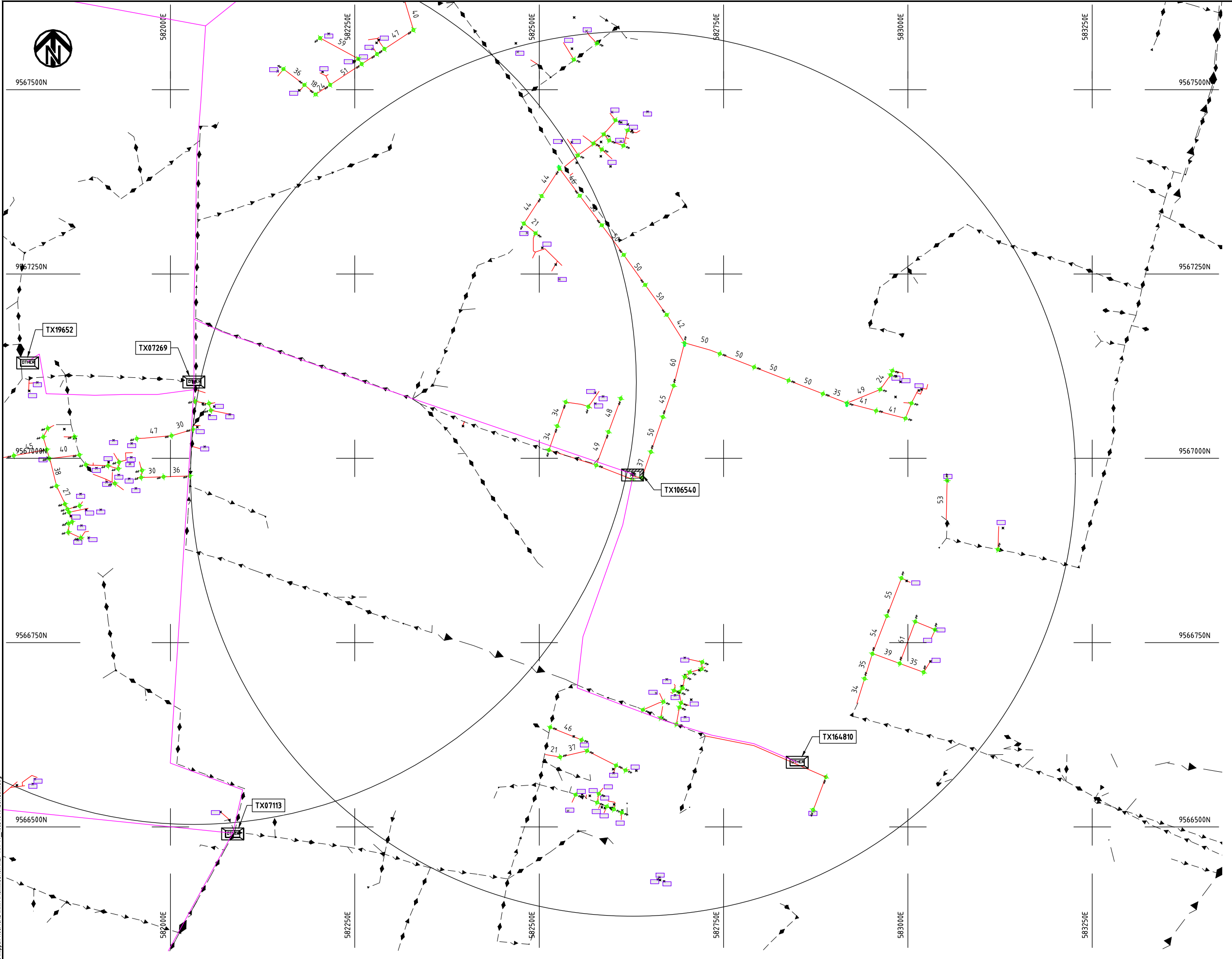
	HOUSEHOLDS/ BUILDINGS
	PROPOSED 11kV
	PROPOSED 33kV
	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	WOODEN ELECTRIC POLES
	CONCRETE ELECTRIC POLES 12M
	CONCRETE ELECTRIC POLES 11M
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING
	STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-76\_07111 MAWENI.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-76	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 07111-MAWENI			DATE	10th SEP 2018	





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

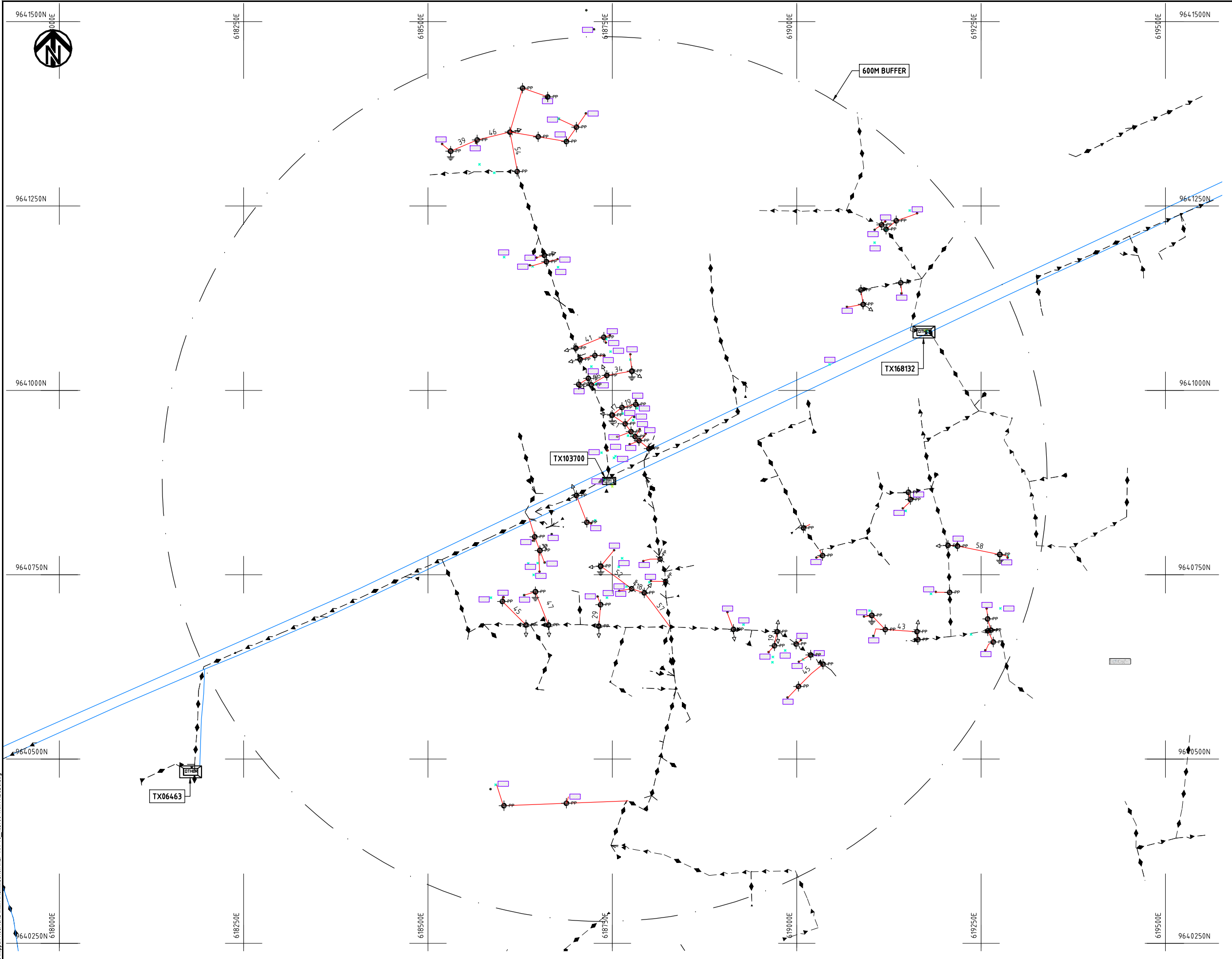
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-77-106540 KALONGONI.dwg  
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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 106540 KALONGONI		KLF-MA-77	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-78-103700-KWA ABUDU.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 103700-KWA ABUDU		KLF-MA-78	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018







9572000N

9571750N

9571500N

9571250N

9571000N

583750E

583750E

584000E

584000E

584250E

584250E

584500E

584500E

584750E

584750E

585000E

585000E

9572000N

9571750N

9571500N

9571250N

9571000N

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



PROJECT:

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: KILIFI  
SCHEME: MAXIMIZATION  
PROJECT SITE: 106350 BODOI KIKAMBALA

DRAW. NO.

KLF-MA-79

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

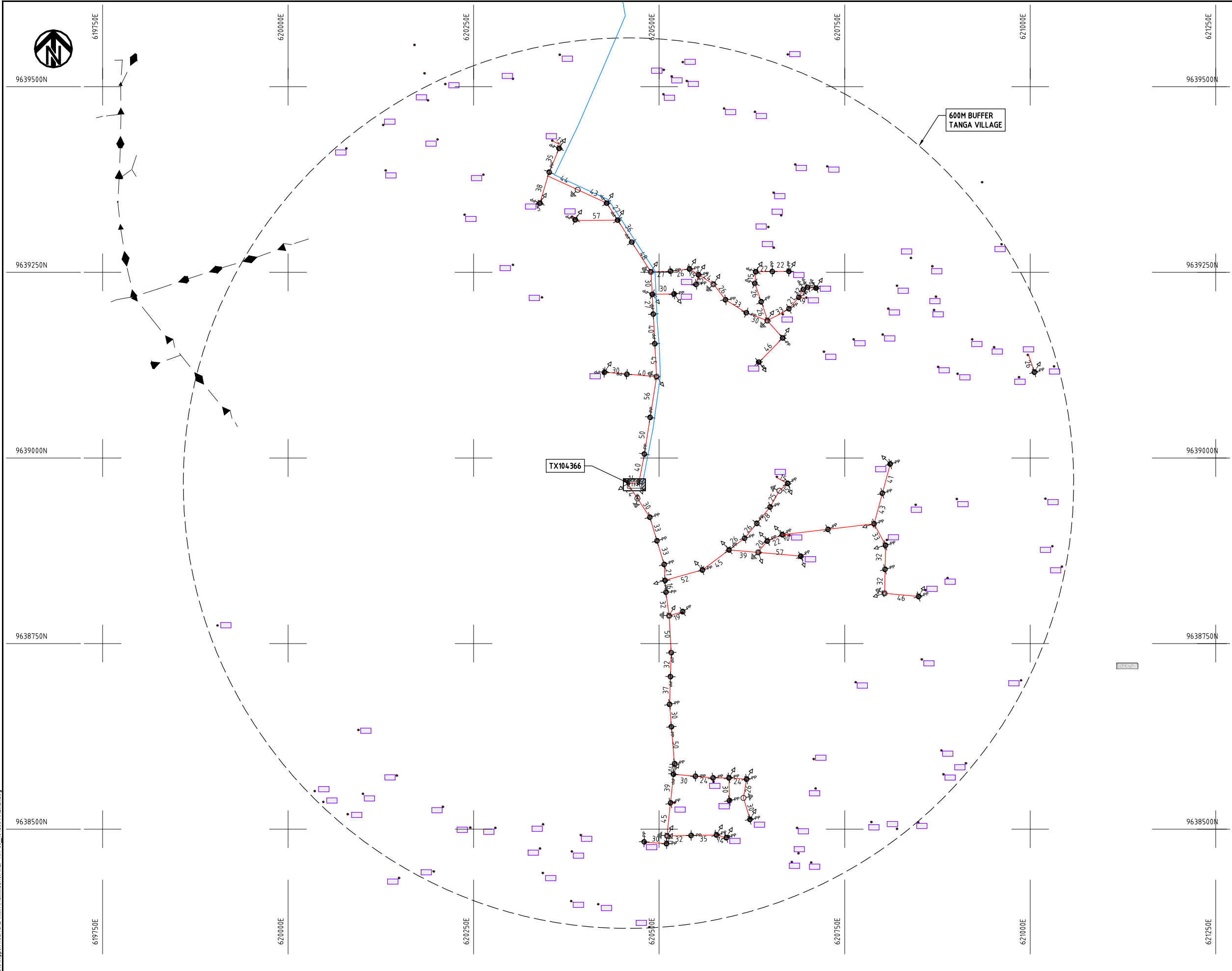
APPROVED BY

Y.TANAKA

DATE

10th SEP 2018





**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

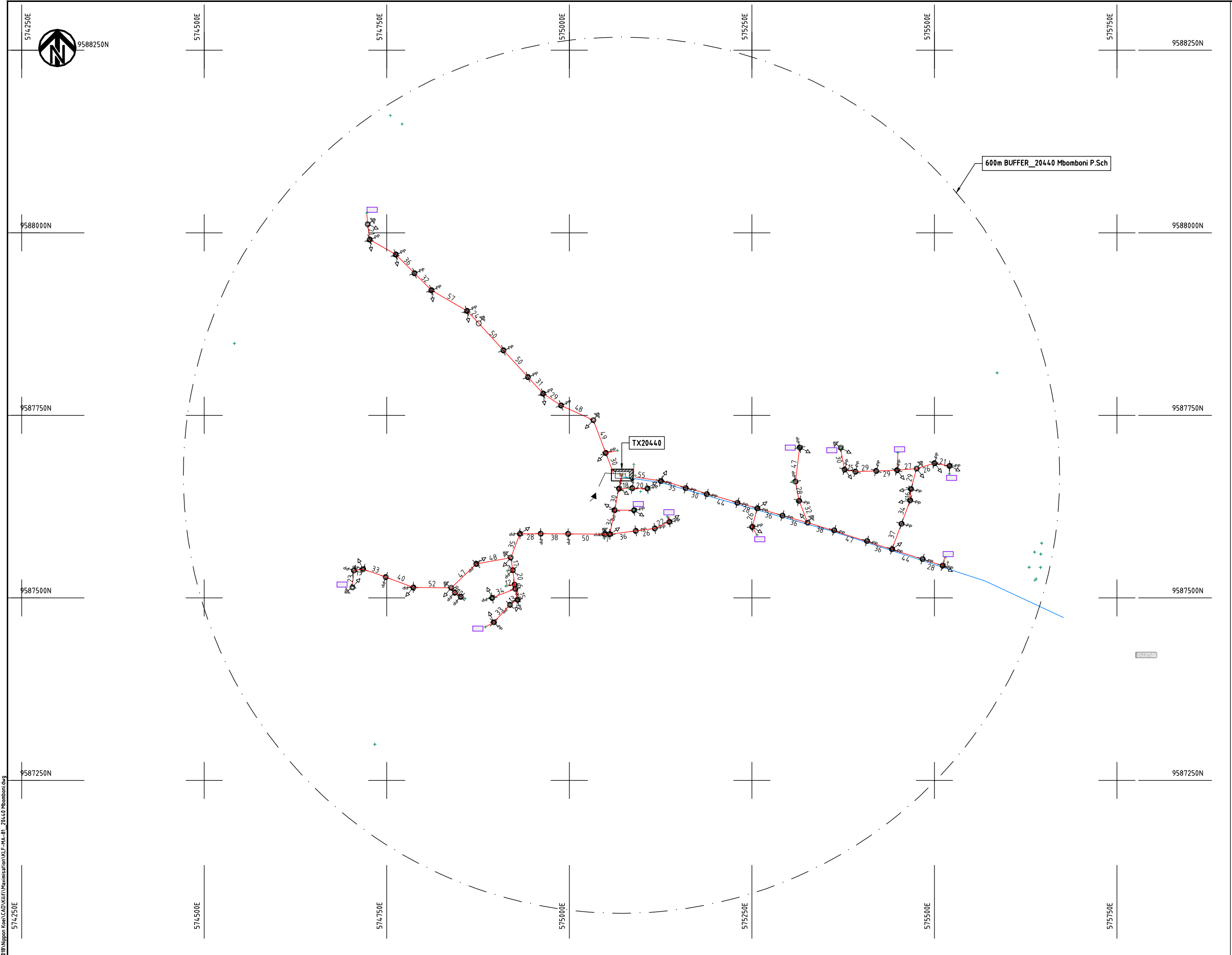
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



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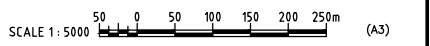
PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 104366 MALINDI		KLF-MA-80	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

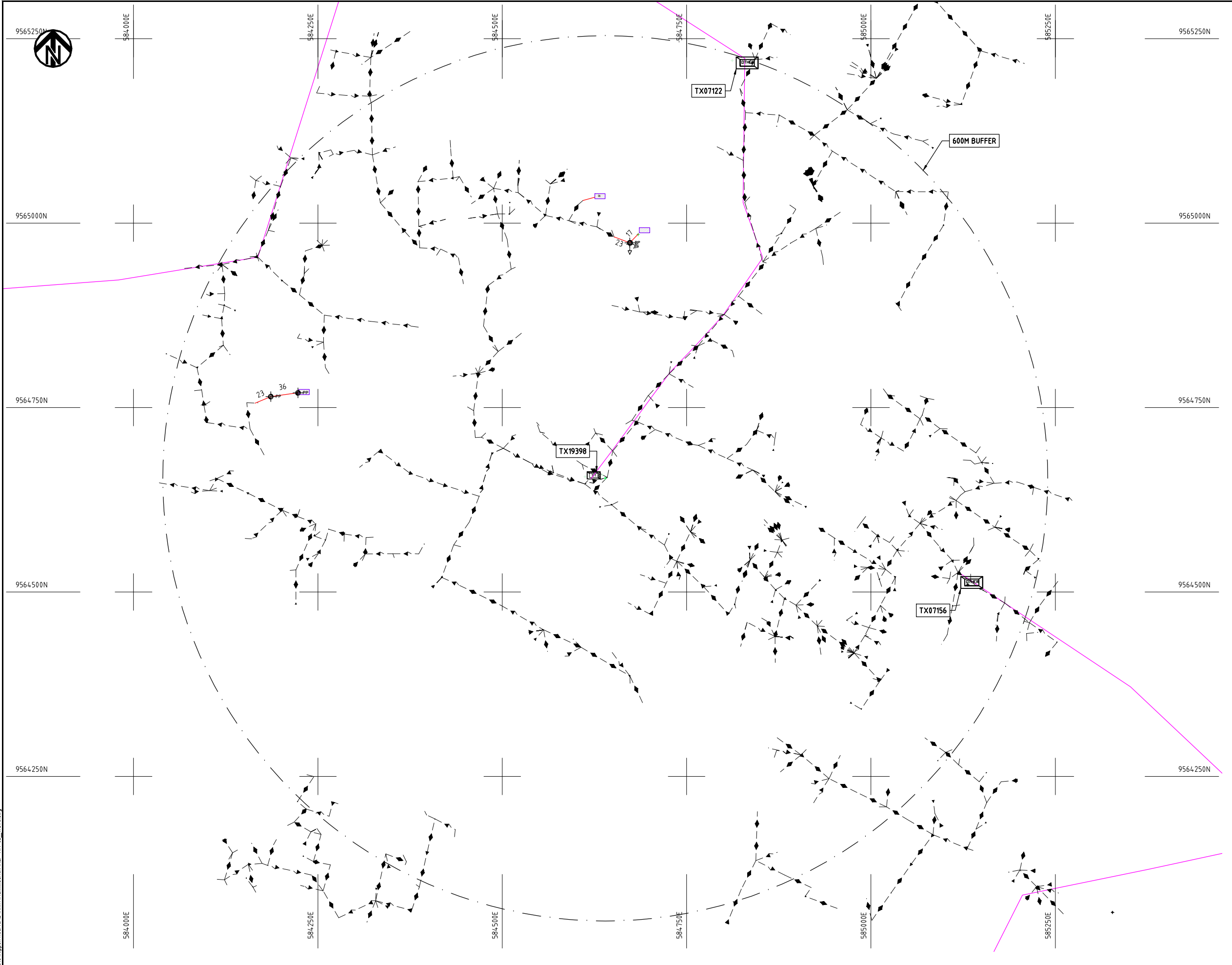
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-81\_20440 Mbomboni.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 20440-MBOMBONI		KLF-MA-81	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

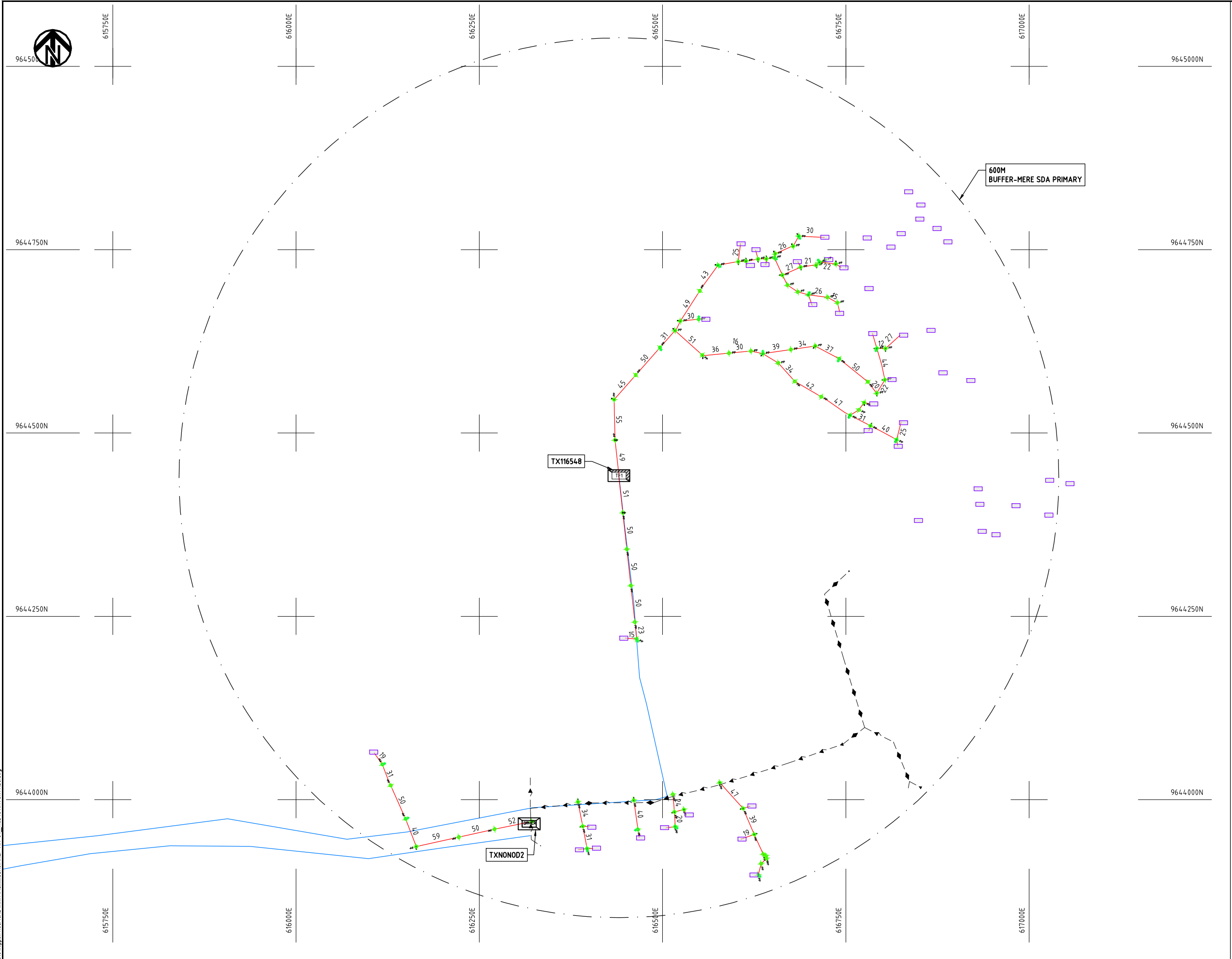
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	PROPOSED 11kV
	PROPOSED 33kV
	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	WOODEN ELECTRIC POLES
	CONCRETE ELECTRIC POLES 12M
	CONCRETE ELECTRIC POLES 11M
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING
	STAY



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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-83	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 19398 -19398			DATE	10th SEP 2018	





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



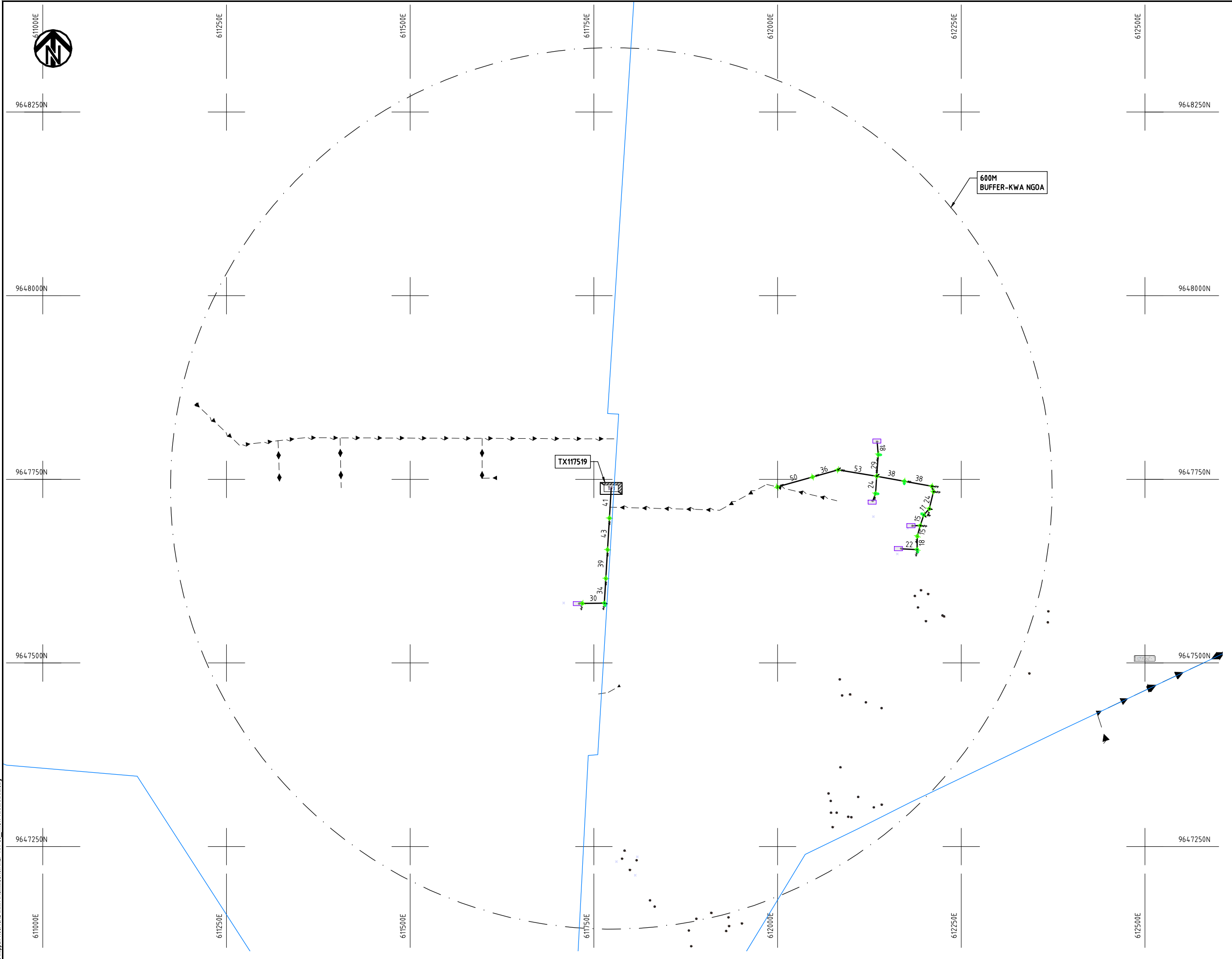
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PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 116548 KAVUNYALO

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-84	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

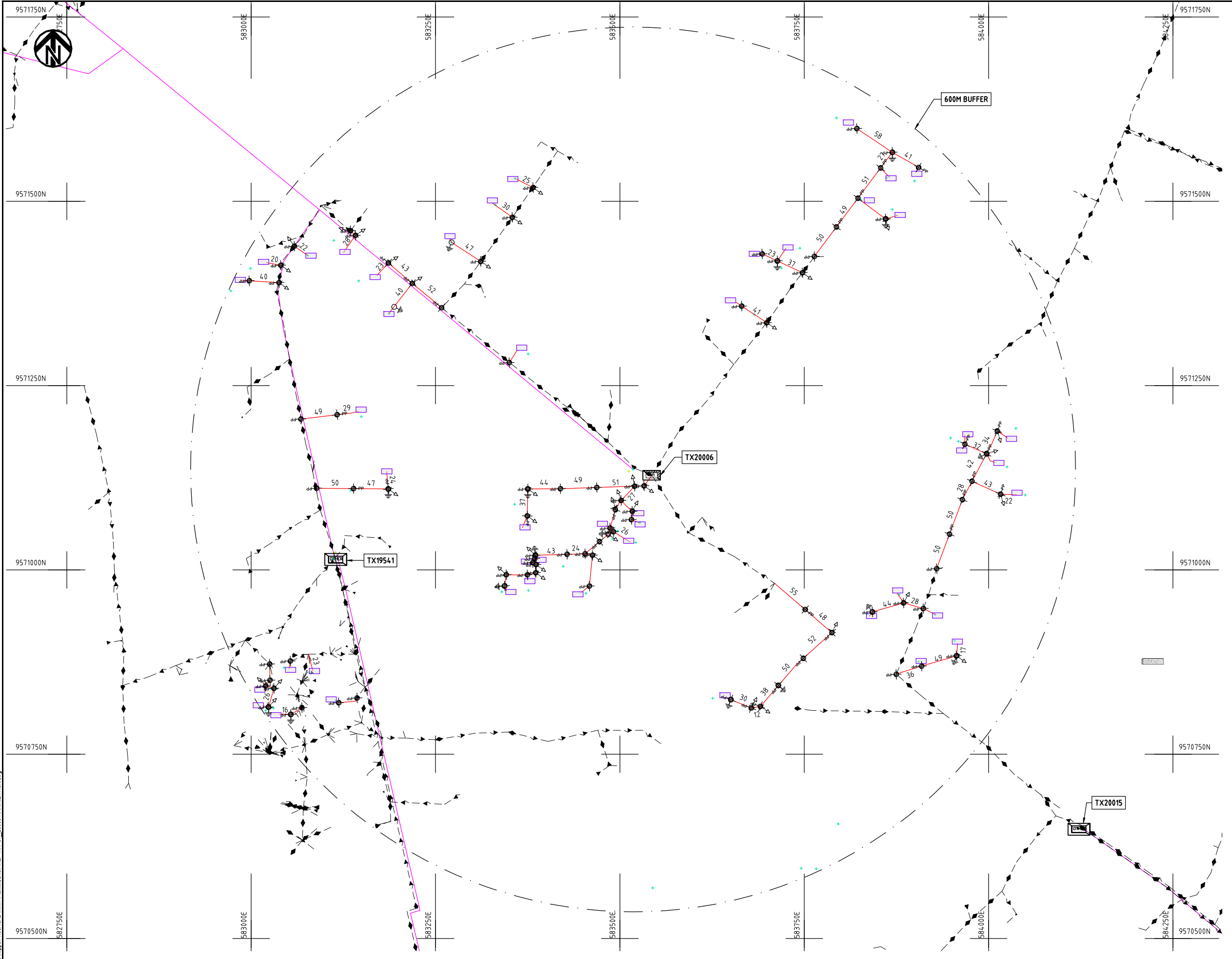


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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 117519 MARIAKANI		KLF-MA-86	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018







- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

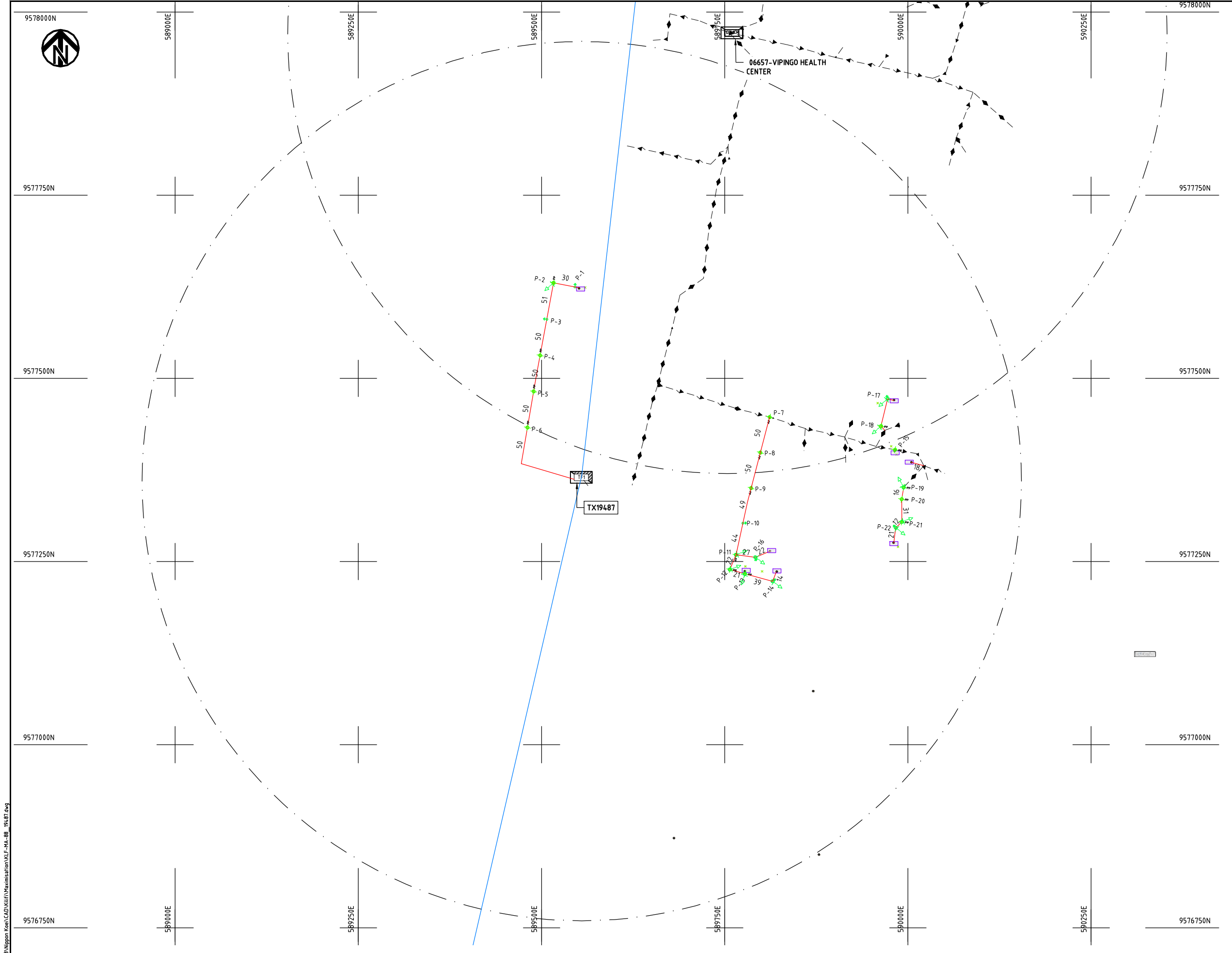
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

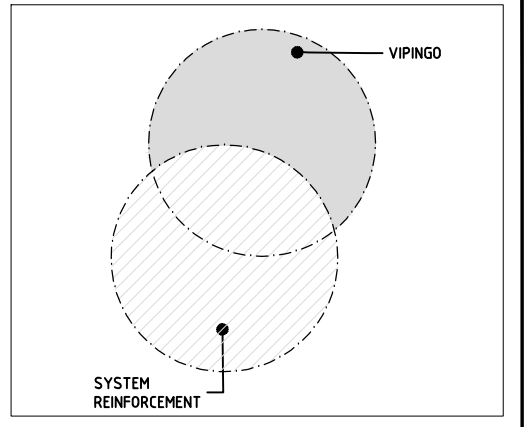
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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 20006 MAXIMIZATION		KLF-MA-87	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018



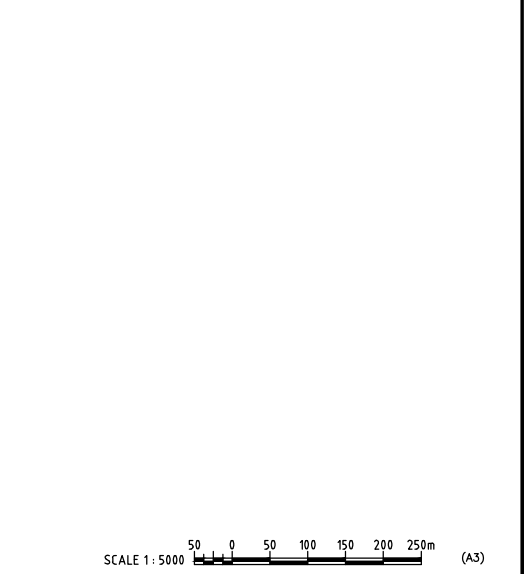


- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.



KEY PLAN

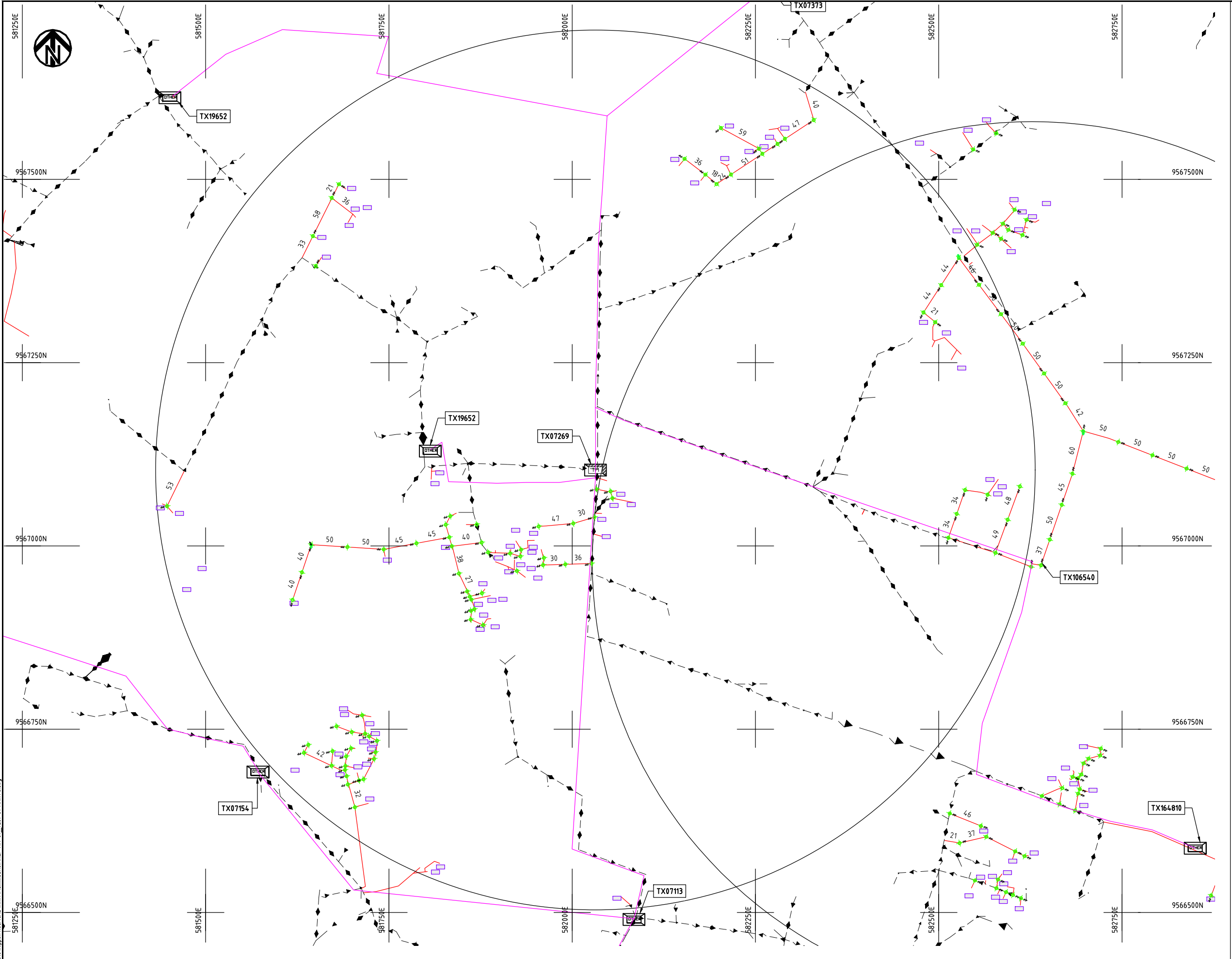
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-88-19487.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 19487-19487		KLF-MA-88	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

KEY PLAN

**LEGEND**

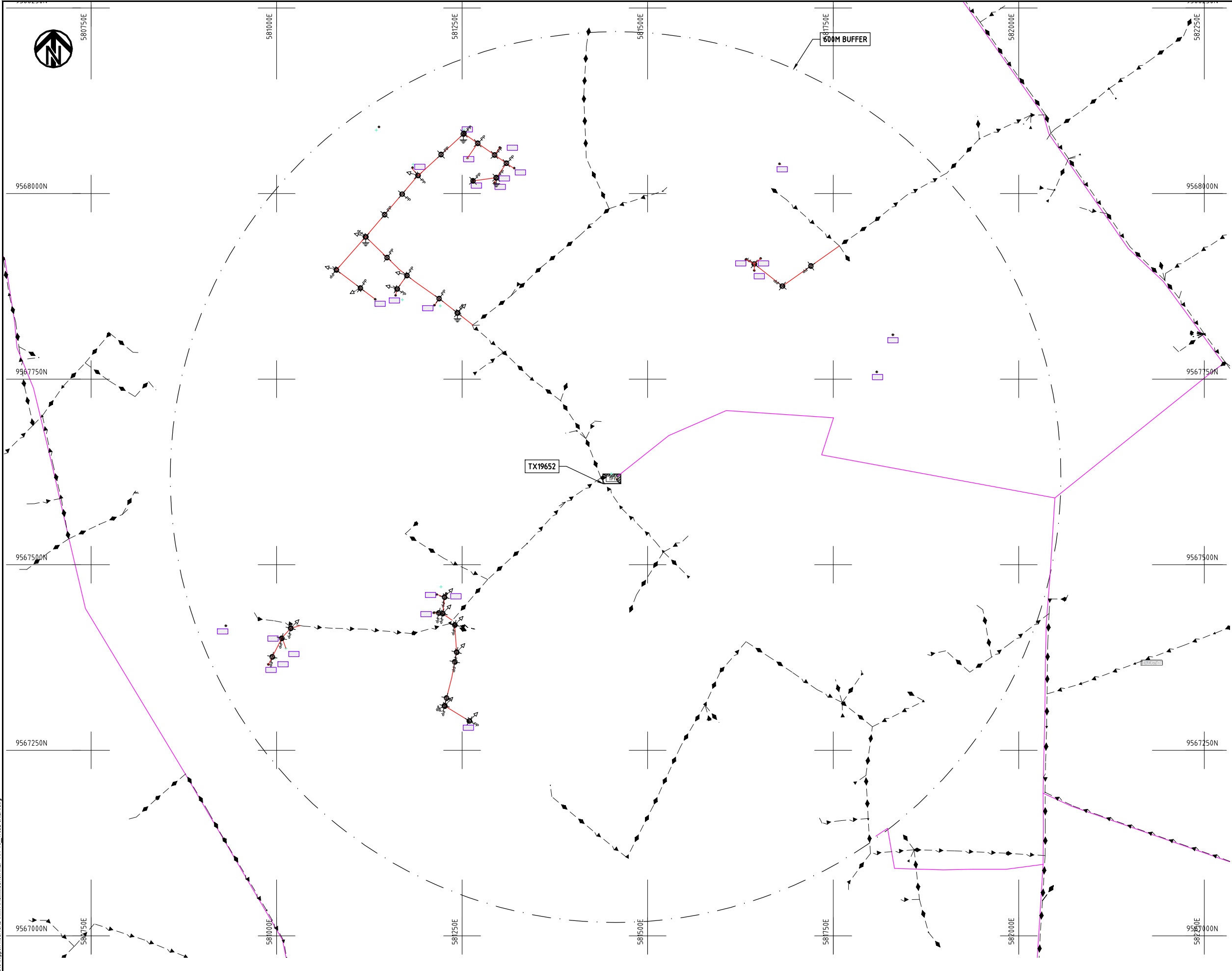
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-89-7269 ST MARYS.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07269-ST MARYS		KLF-MA-89	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-90\_19652 CHILA.dwg

PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 19652 CHILA

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-90	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





579750E

580000E

580250E

580500E

580750E

581000E

581250E

9568750N

9568750N

9568500N

9568500N

9568250N

9568250N

9568000N

9568000N

9567750N

9567750N

579750E

580000E

580250E

580500E

580750E

581000E

581250E

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-91\_19551 MTAPEN.dwg

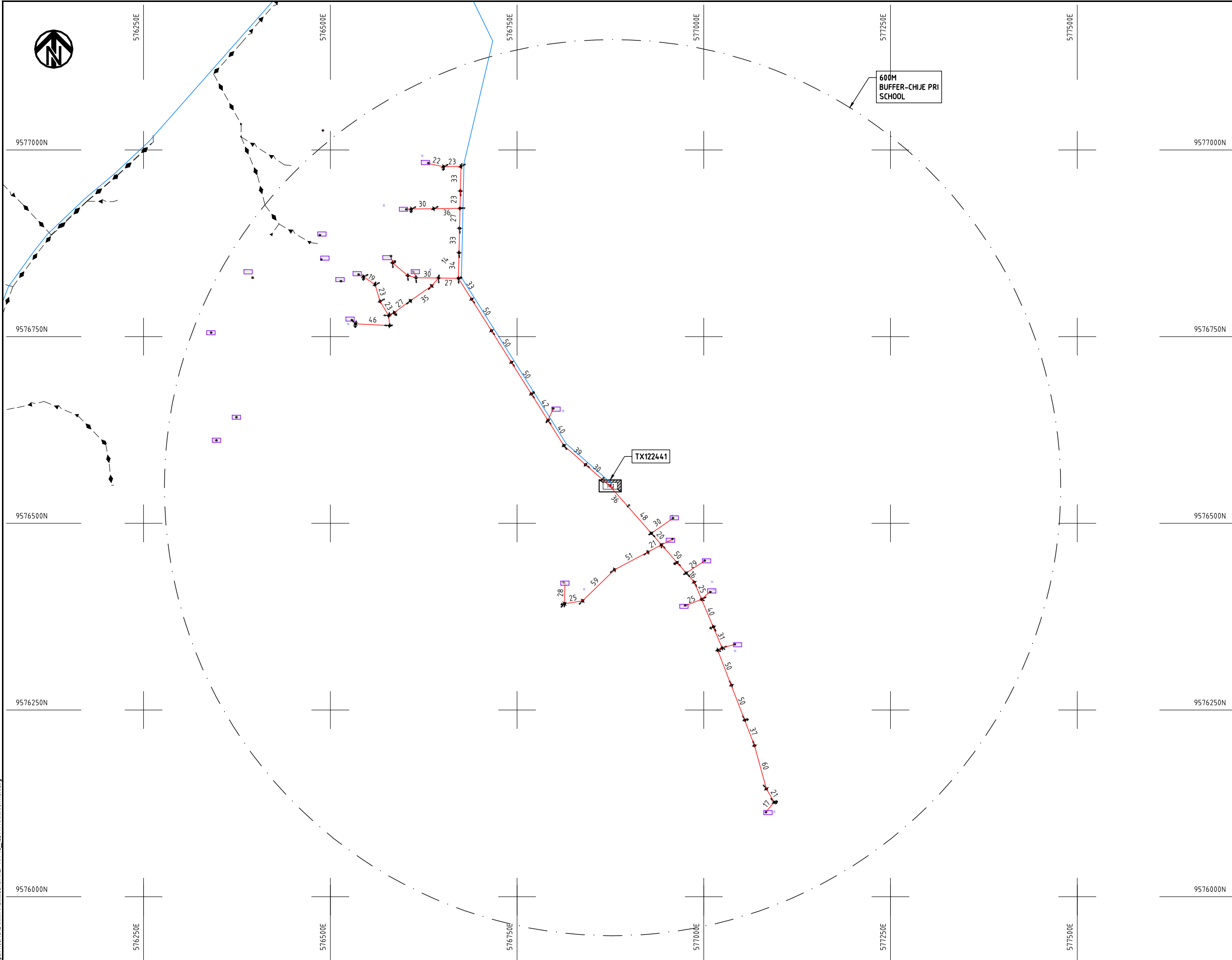
PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 19551 MTAPEN

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-91	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



SCALE 1:5000 (A3)



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

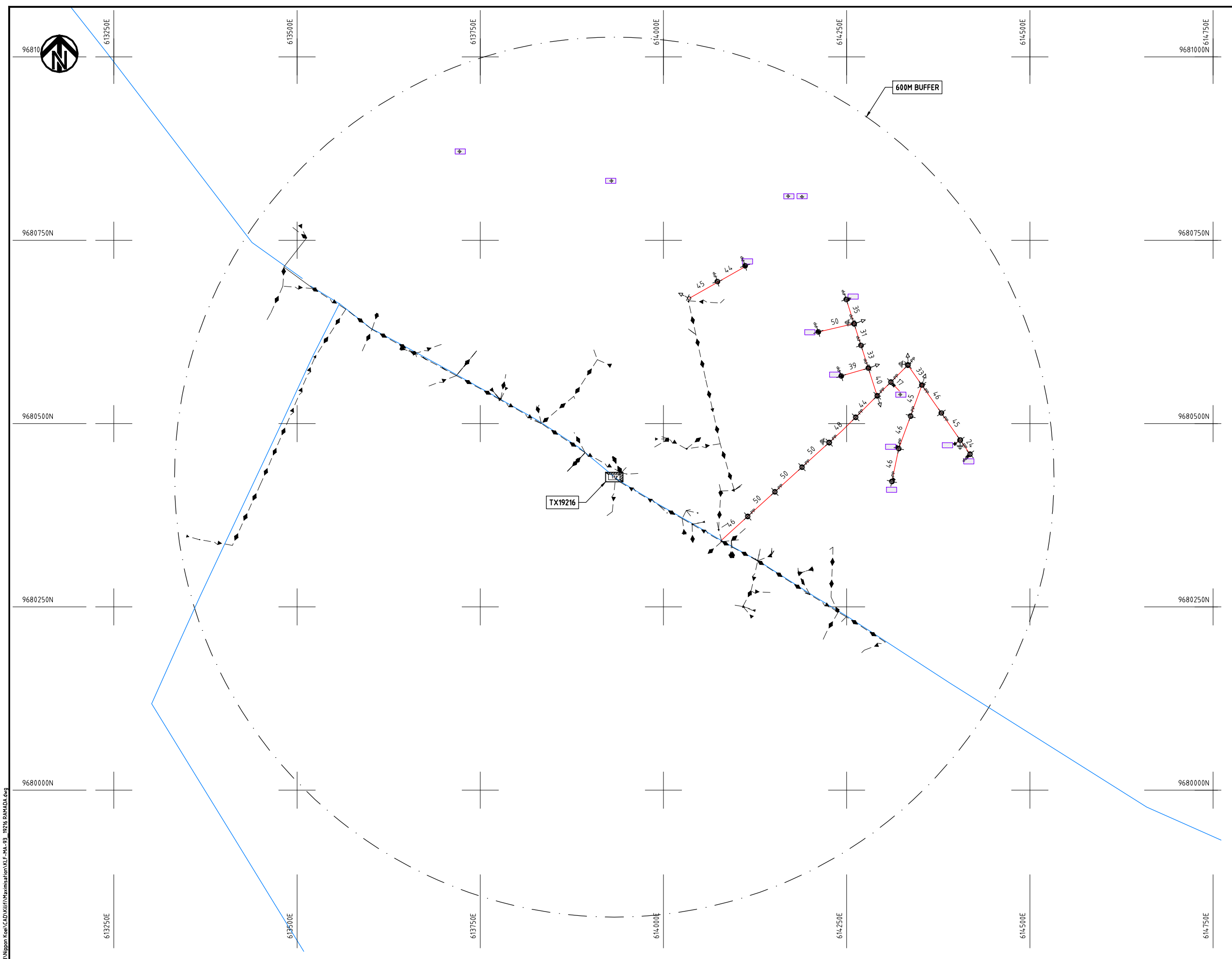
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- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-92\_122441 MAXIMISATION.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI	PROJECT SITE: 122441 MAXIMISATION	KLF-MA-92	CHECKED BY	S.MAETA
SCHEME: MAXIMISATION	APPROVED BY			Y.TANAKA	
DATE	10th SEP 2018				

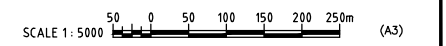




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

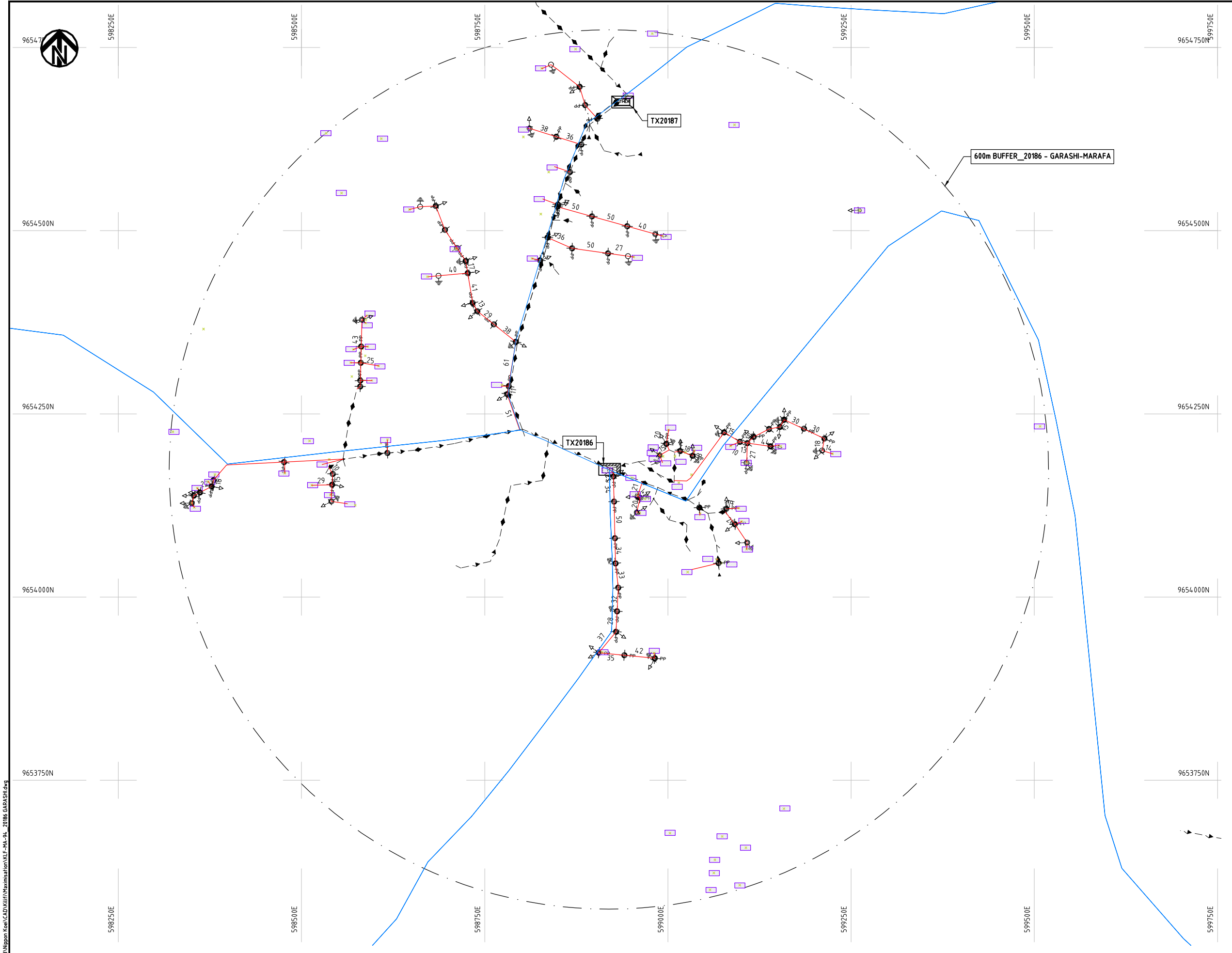


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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-93	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 19216 RAMADA		DATE		10th SEP 2018	

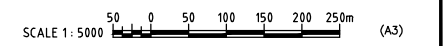






- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

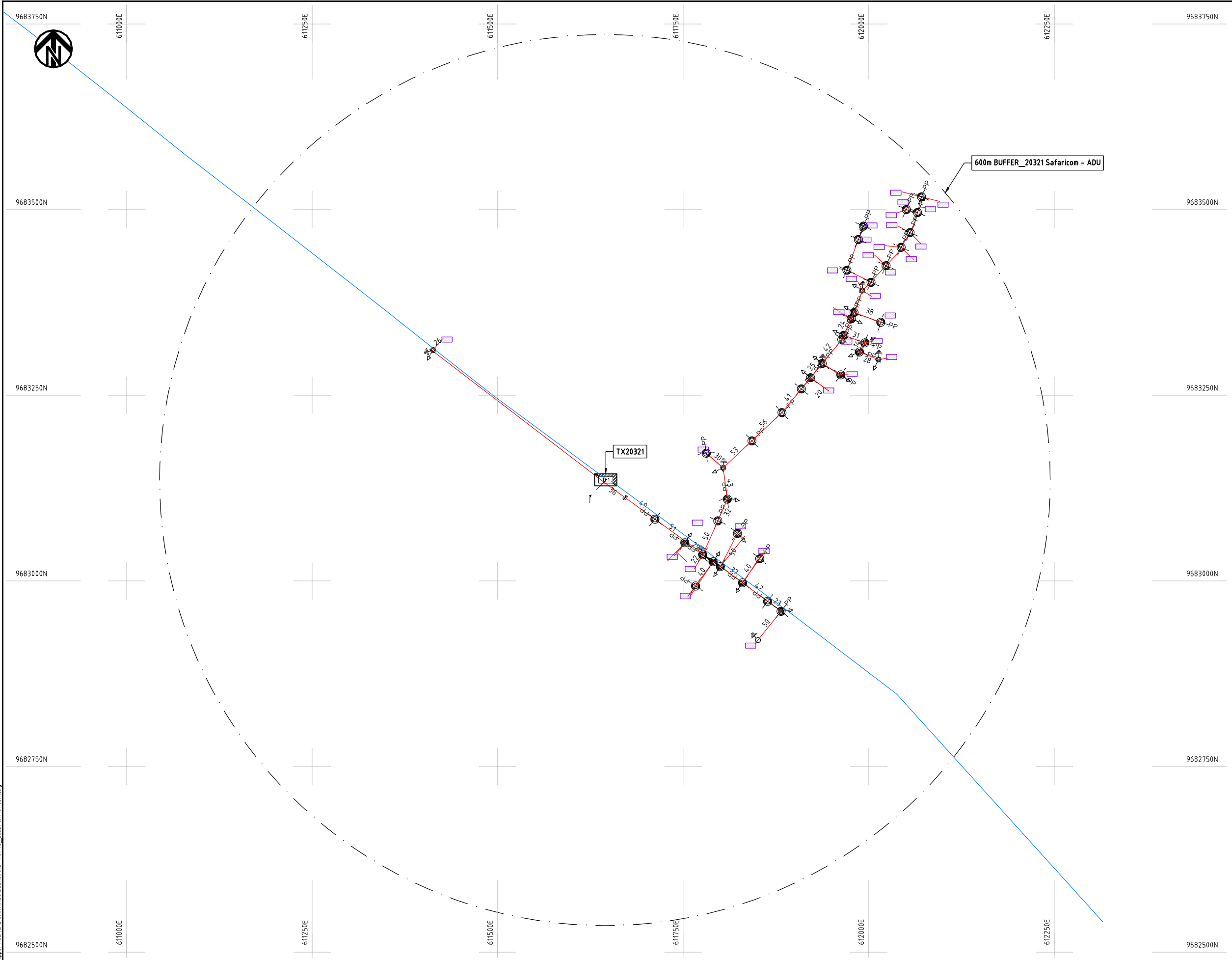
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - PP WOODEN ELECTRIC POLES
  - CP CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Csd File No. D:\Frank-Prop\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-94-20186-GARASHI.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 20186-GARASHI		KLF-MA-94	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-95\_20321 SAFARICOM.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-95	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 20321-SAFARICOM			DATE	10th SEP 2018	





9658500N

613500E

613750E

614000E

614250E

614500E

614750E

9658500N

9658250N

9658250N

9658000N

9658000N

9657750N

9657750N

9657500N

9657500N

613500E

613750E

614000E

614250E

614500E

614750E

600M BUFFER

TX19977

### NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

### LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: KILIFI  
SCHEME: MAXIMIZATION  
PROJECT SITE: 19977-KADZIFITSENI

DRAW. NO.

KLF-MA-96

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

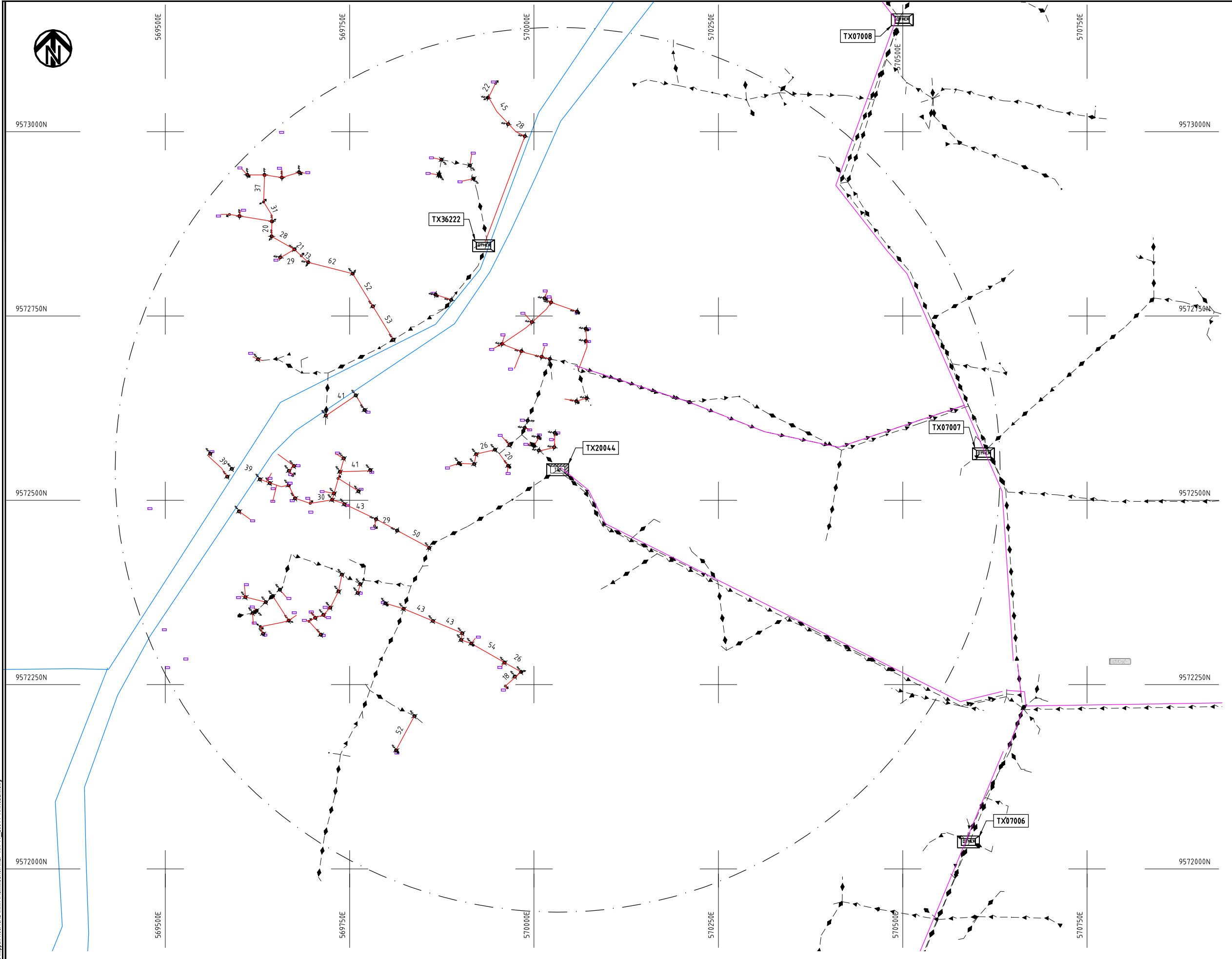
APPROVED BY

Y.TANAKA

DATE

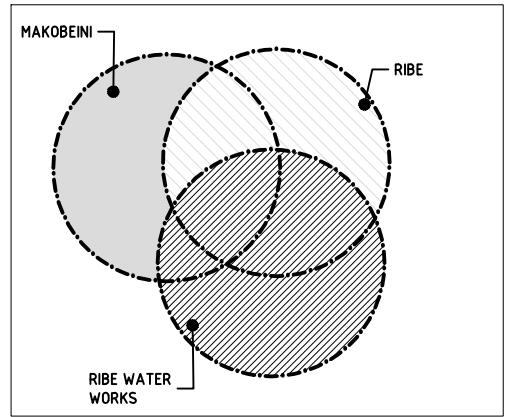
10th SEP 2018

NIPPON KOEI CO., LTD



**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.



KEY PLAN

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



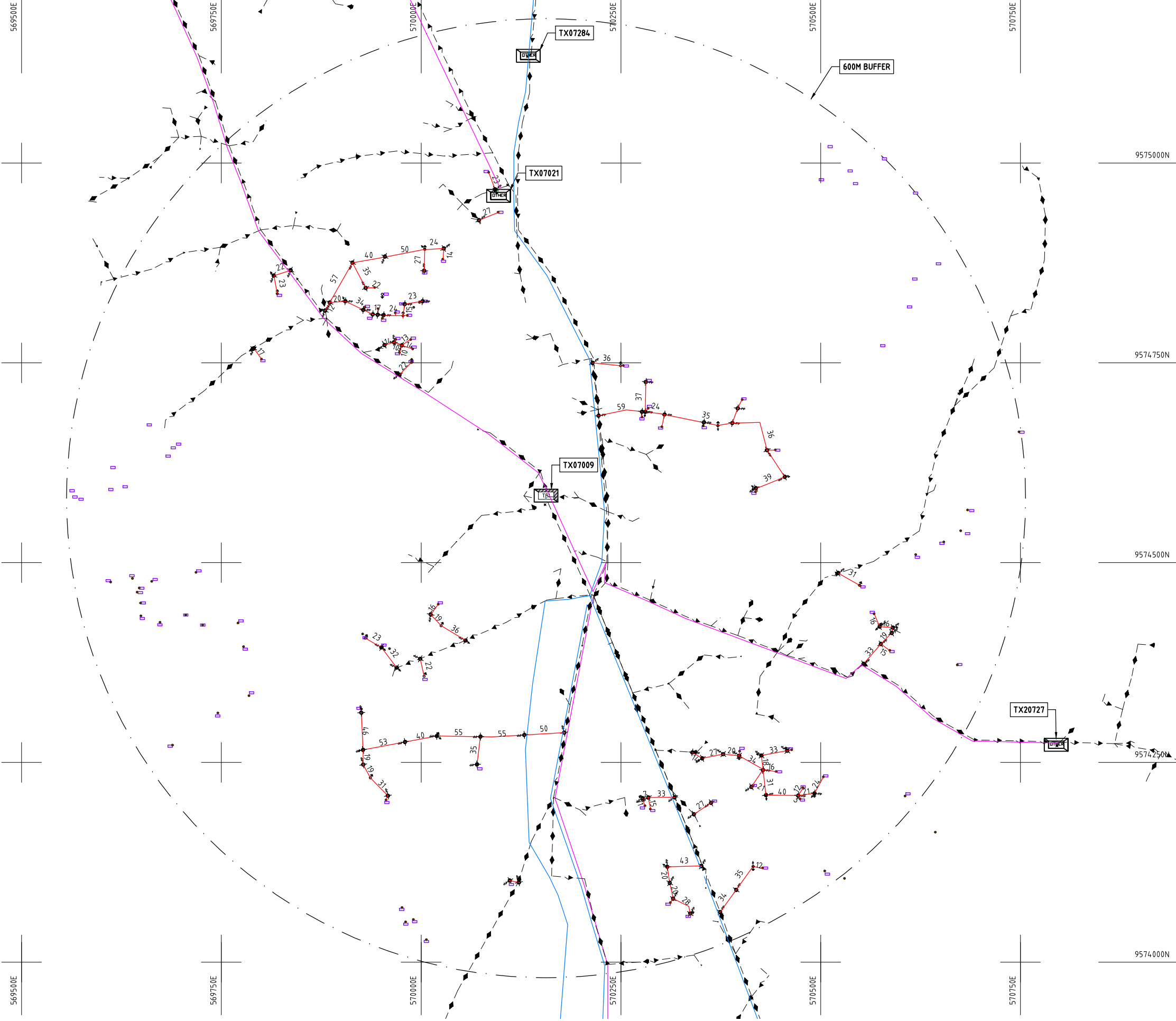
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PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 2004-MAKOBENI

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-97	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07009-BONDORA		KLF-MA-98	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





9658500N

627750E

628000E

628250E

628500E

628750E

629000E

9658500N

9658250N

9658250N

9658000N

9658000N

9657750N

9657750N

9657500N

9657500N

627750E

628000E

628250E

628500E

628750E

629000E

600M BUFFER

TX07591

TX07507

TX07534

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



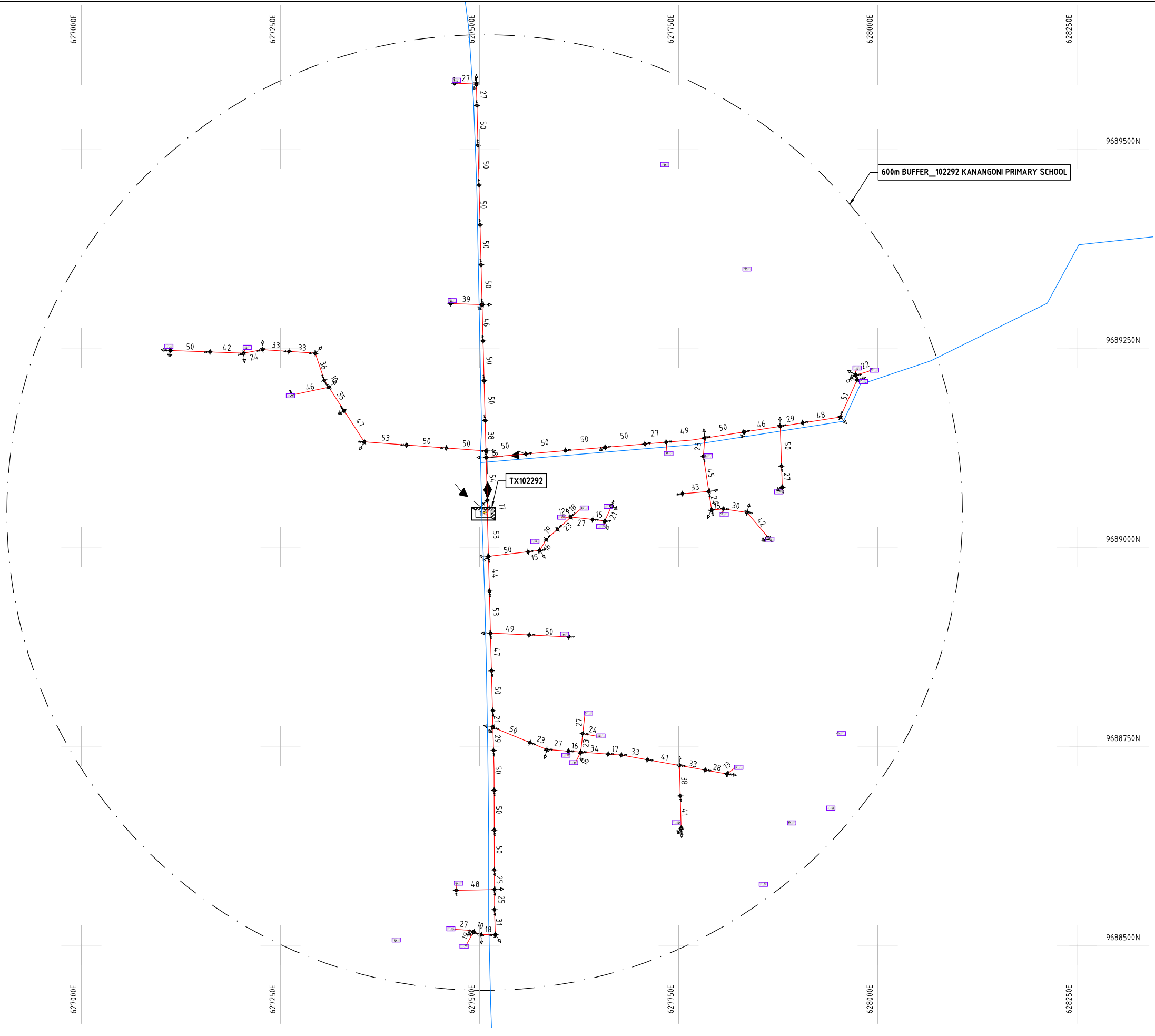
PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 07507 D\_RICCI

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-99	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-99\_07507 D\_RICCI.dwg



**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-100\_102292 Kanangoni.dwg

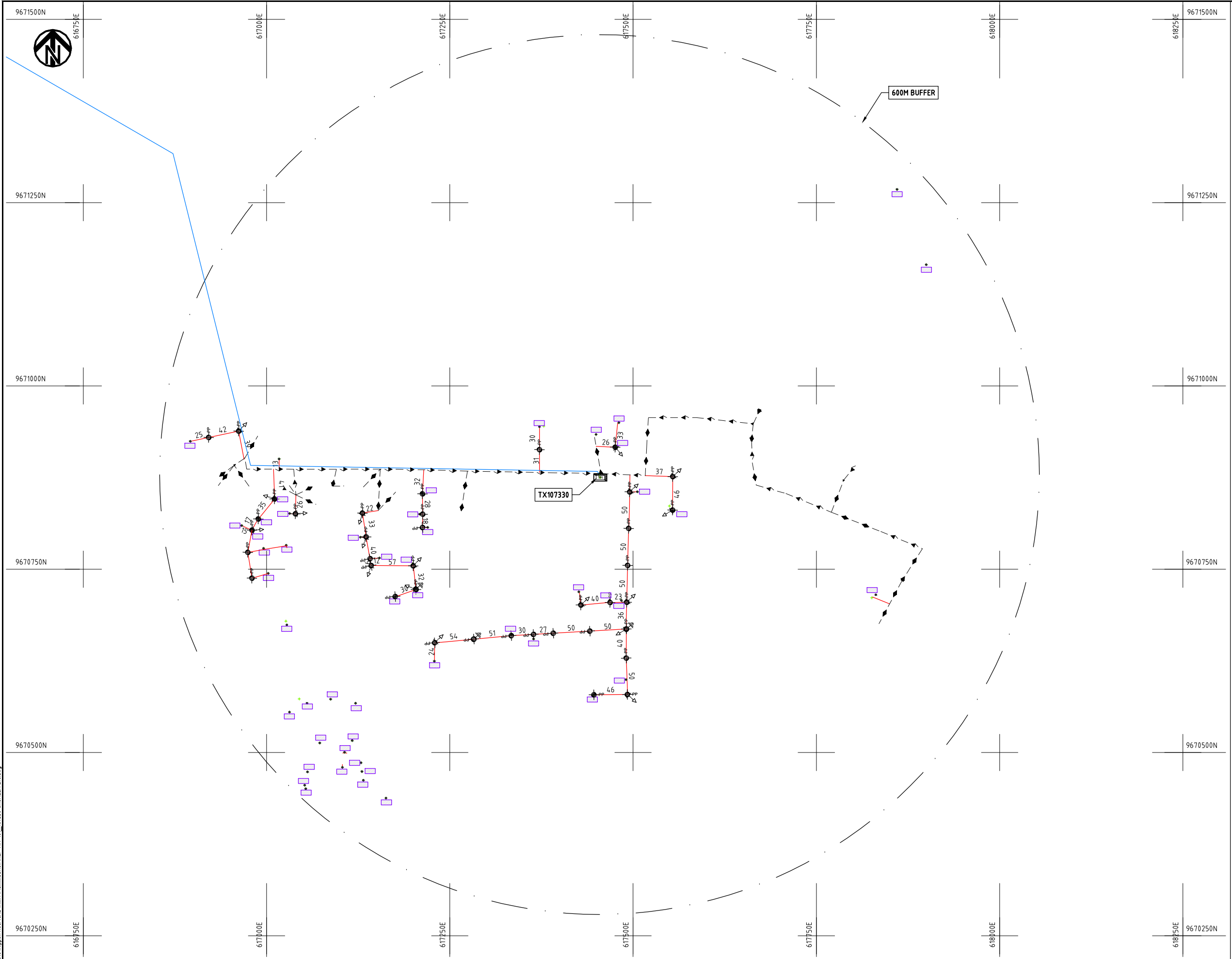
PROJECT:	THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA
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DRAWING TITLE	
COUNTY:	KILIFI
SCHEME:	MAXIMIZATION
PROJECT SITE:	102292 KANANGONI

DRAW. NO.	KLF-MA-100
PREPARED BY	A.AKBAR
CHECKED BY	S.MAETA
APPROVED BY	Y.TANAKA
DATE	10th SEP 2018

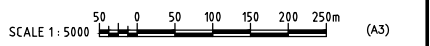






- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-101\_107330 SHOMELA DIS.dwg

PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 107330 SHOMELA DIS

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-101	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





9671000N

612750E

613000E

613250E

613500E

613750E

614000E

9671000N

9670750N

9670750N

9670500N

9670500N

9670250N

9670250N

9670000N

9670000N

612750E

613000E

613250E

613500E

613750E

614000E

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



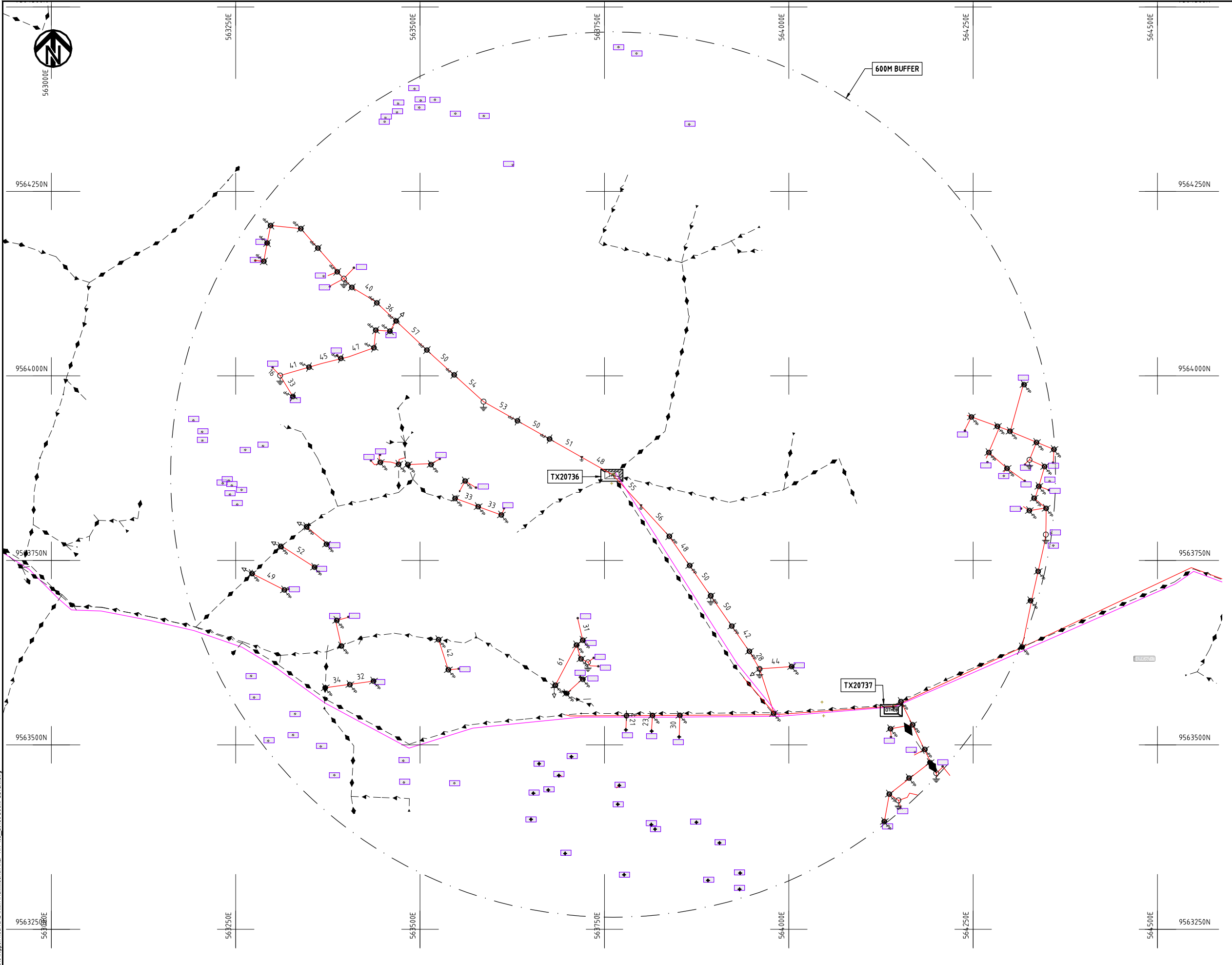
PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 107329 KABIBUNI PRY

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-102	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



Cad File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-102\_107329 KABIBUNI PRY.dwg



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-103\_20736\_BUUNI-DETENI.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 20736-BUUNI-DETENI		KLF-MA-103	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





9570250N

563750E

564000E

564250E

564500E

564750E

565000E

9570250N

9570000N

9570000N

9569750N

9569750N

9569500N

9569500N

9569250N

9569250N

563750E

564000E

564250E

564500E

564750E

565000E

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

600m BUFFER\_19930 -Bofu Sec School,Rabai

TX19930

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: KILIFI  
SCHEME: MAXIMIZATION  
PROJECT SITE: 19930-B0FU

DRAW. NO.

KLF-MA-104

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

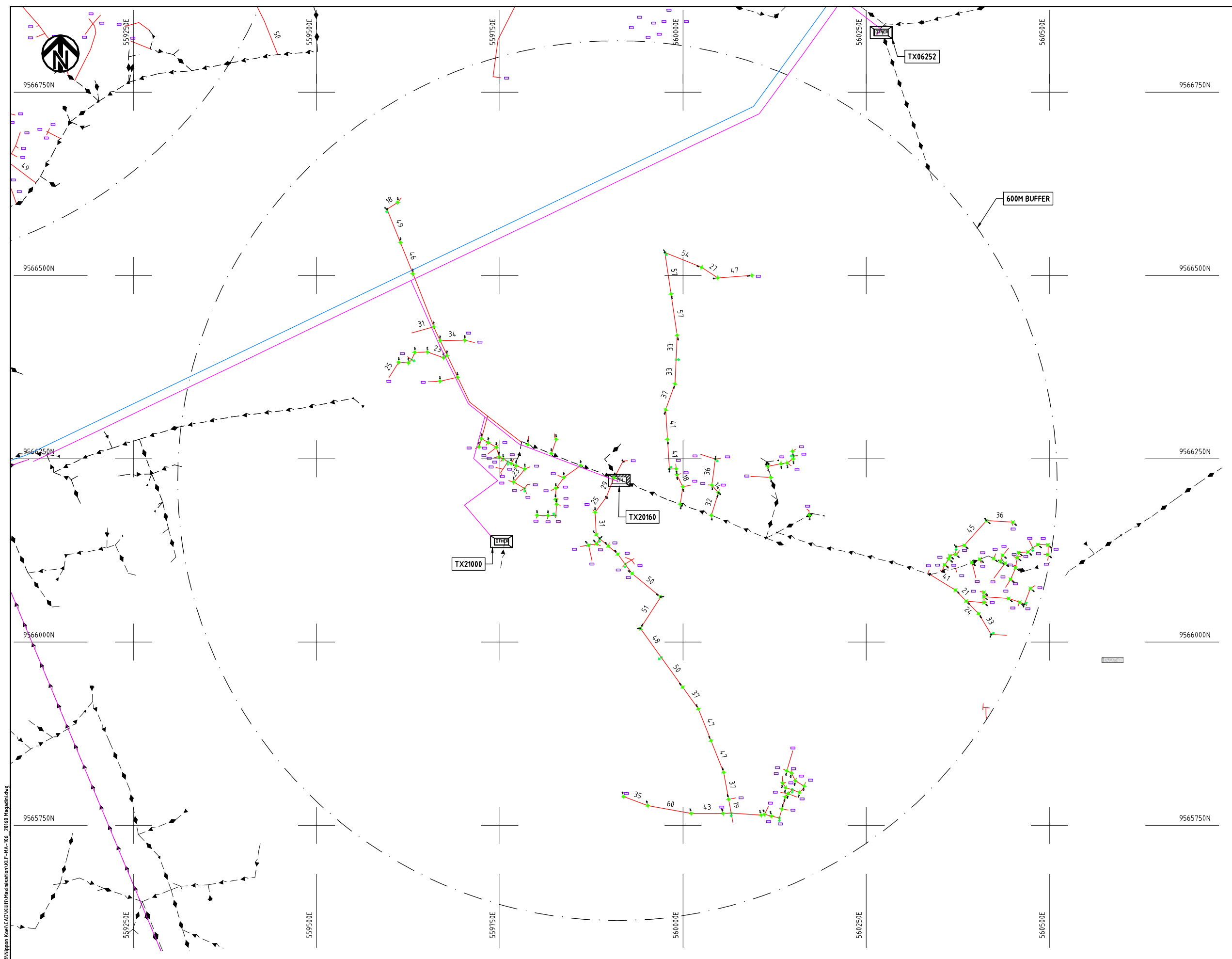
APPROVED BY

Y.TANAKA

DATE

10th SEP 2018

NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 20160-MAGADINI		KLF-MA-106	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





9562000N

9561750N

9561500N

9561250N

9561000N

560500E

560750E

561000E

561250E

561500E

561750E

560500E

560750E

561000E

561250E

561500E

561750E

600M BUFFER

TX06241

TX076188

TX07648

TX06273

TX06383

TX06285

06253 - MAZERAS  
POULTRY FARM

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



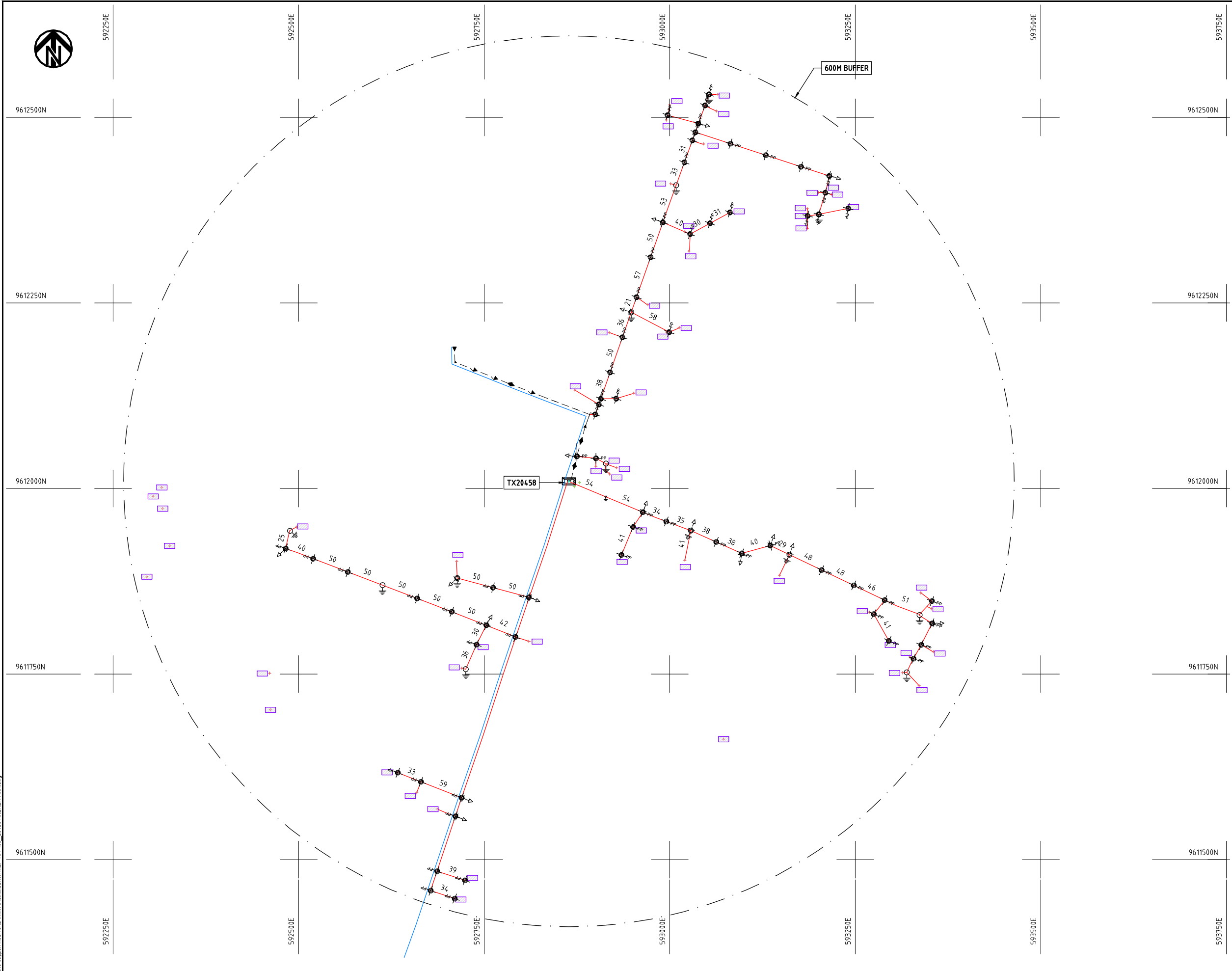
PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 06253-MAZERAS

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-107	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



Cad File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-107\_06253 MAZERAS.dwg



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-108\_20458 ANZAZI FARM.dwg

PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 20458-ANZAZI FARM

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-108	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018







610250E

610500E

610750E

611000E

611250E

611500E

9632250N

9632250N

9632000N

9632000N

9631750N

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9631500N

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9631250N

9631250N

610250E

610500E

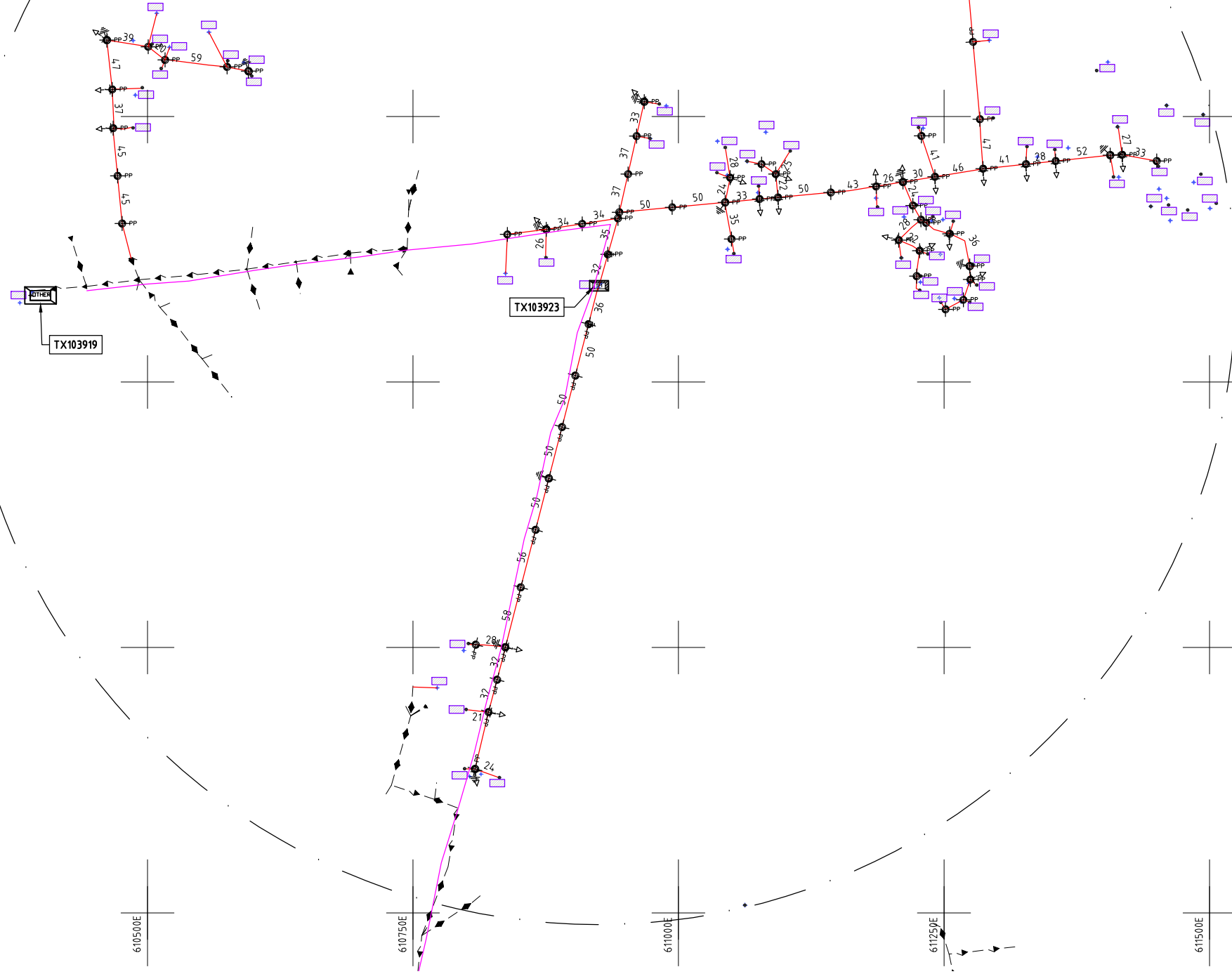
610750E

611000E

611250E

611500E

600M BUFFER



**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

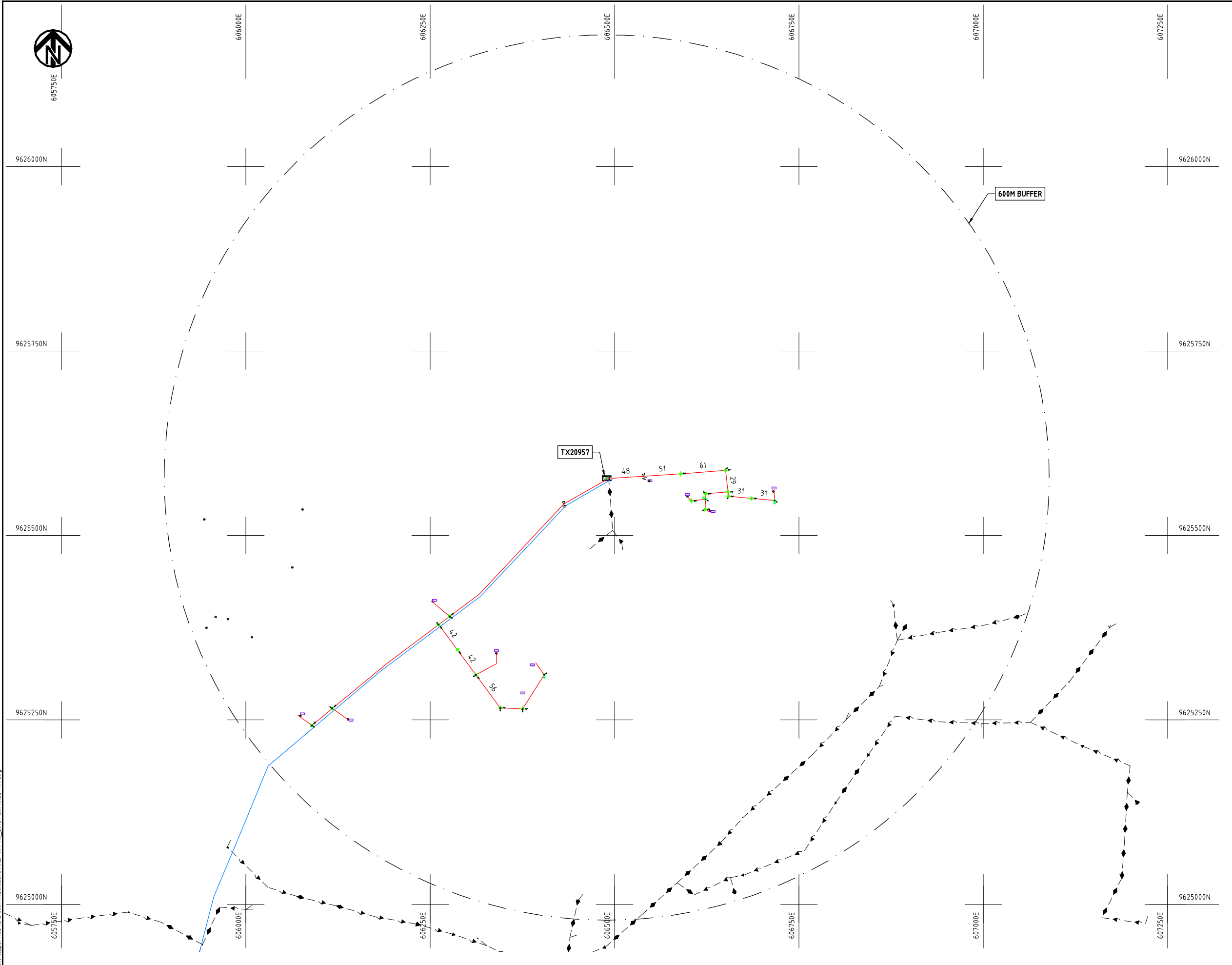


PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 103923-DABASO

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-109	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

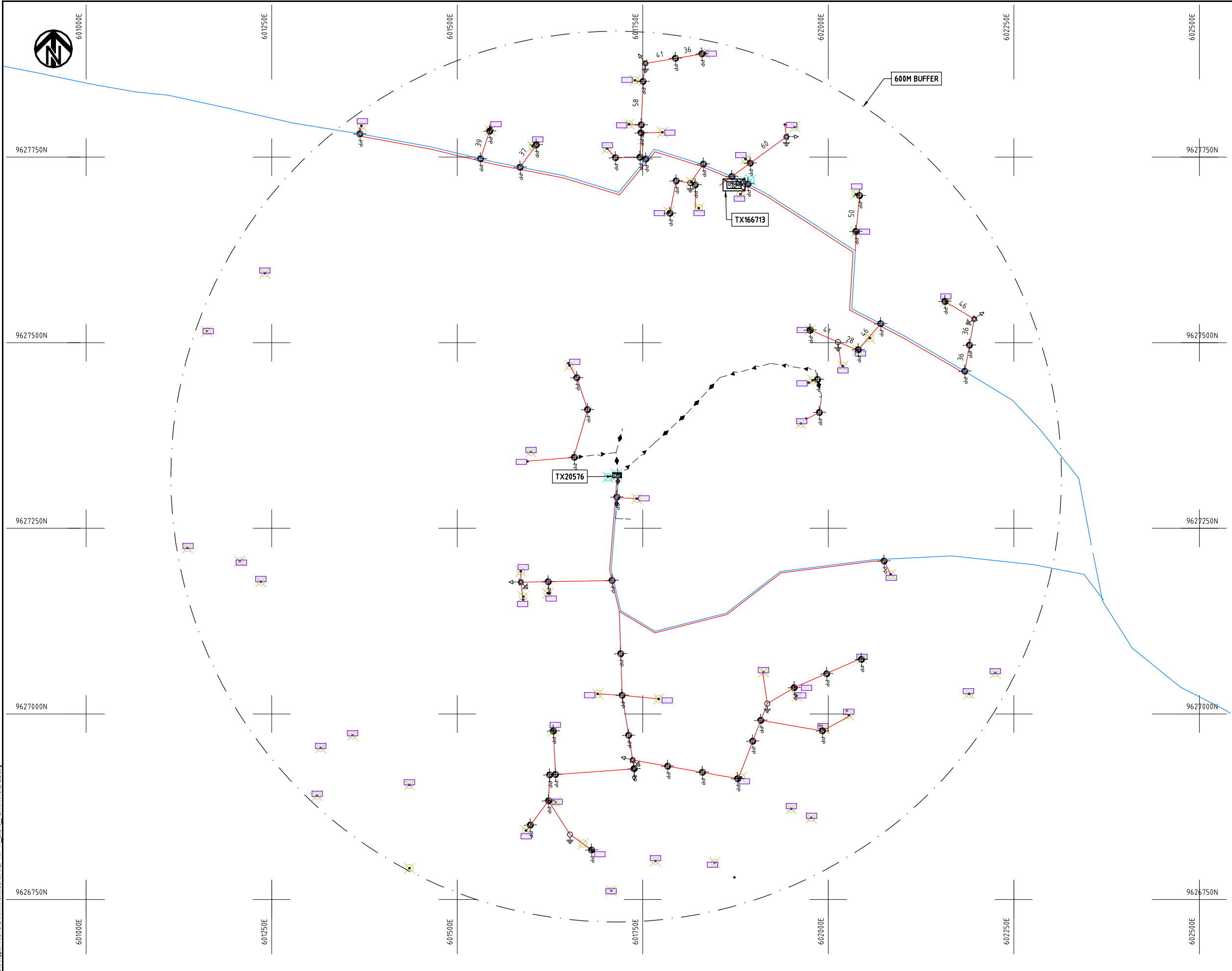
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-110\_20957\_CHIPANDE PRI.dwg

PROJECT:	<b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE	DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 20957-CHIPANDE PRI SCHOOL	KLF-MA-110	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

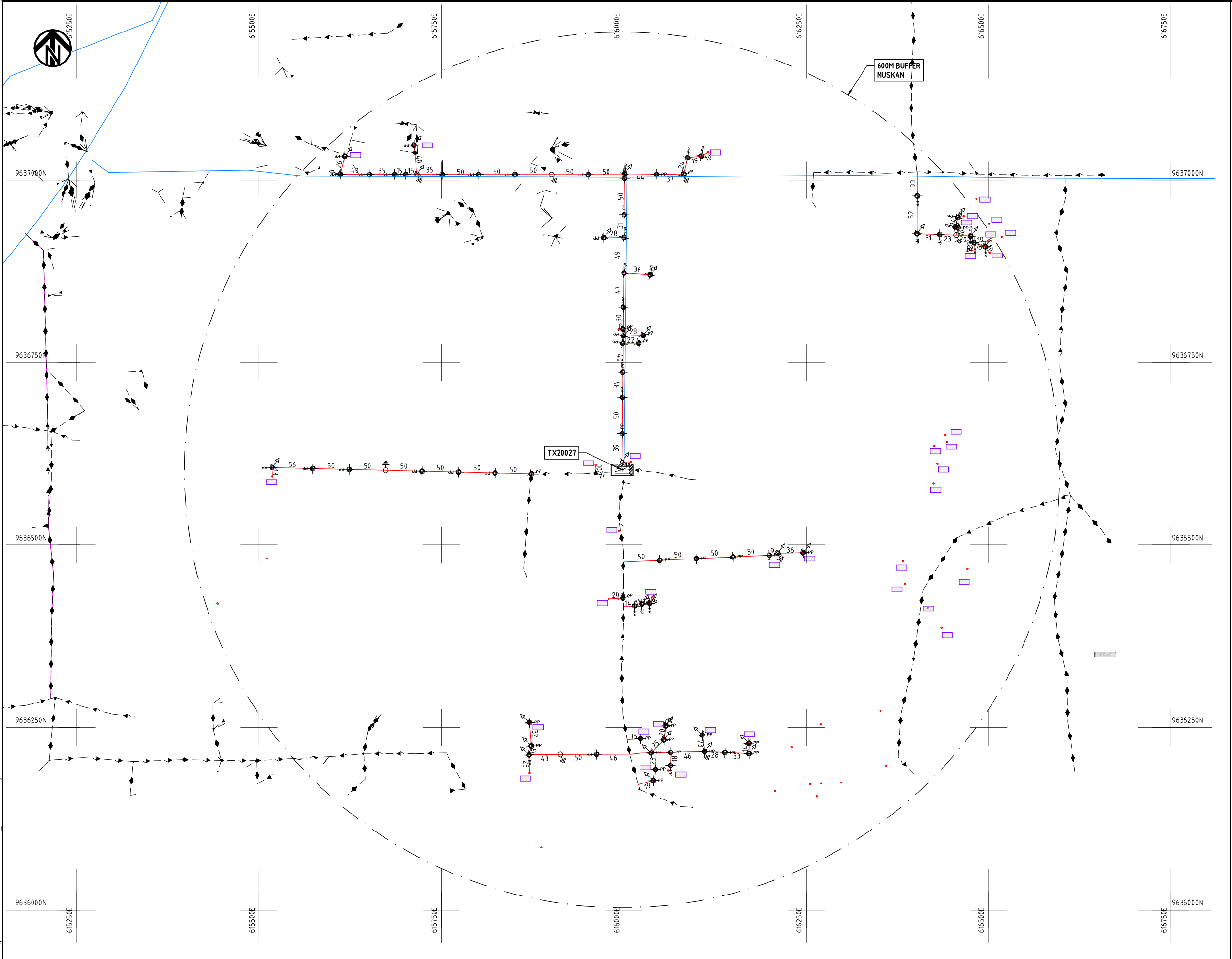
	HOUSEHOLDS/ BUILDINGS
	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	OTHER EXISTING TRANSFORMER
	WOODEN ELECTRIC POLES
	CONCRETE ELECTRIC POLES
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING
	STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-111\_20576\_MBARAKACHEMBE.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 20576-MBARAKACHEMBE		KLF-MA-111	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

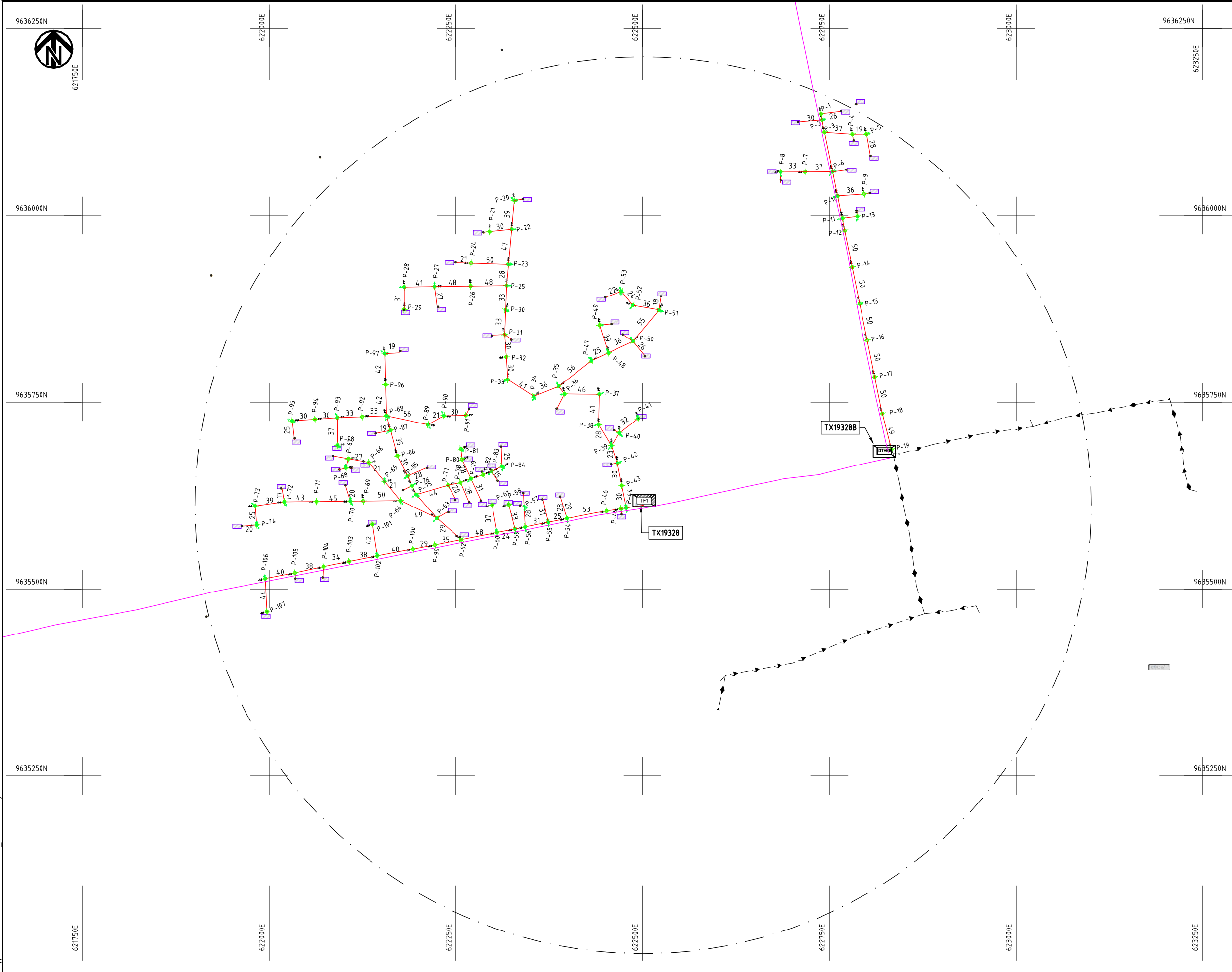
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

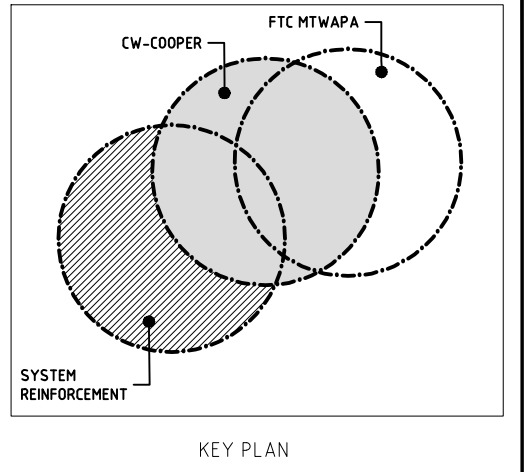
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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 20027 MUSKAN		KLF-MA-112	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.



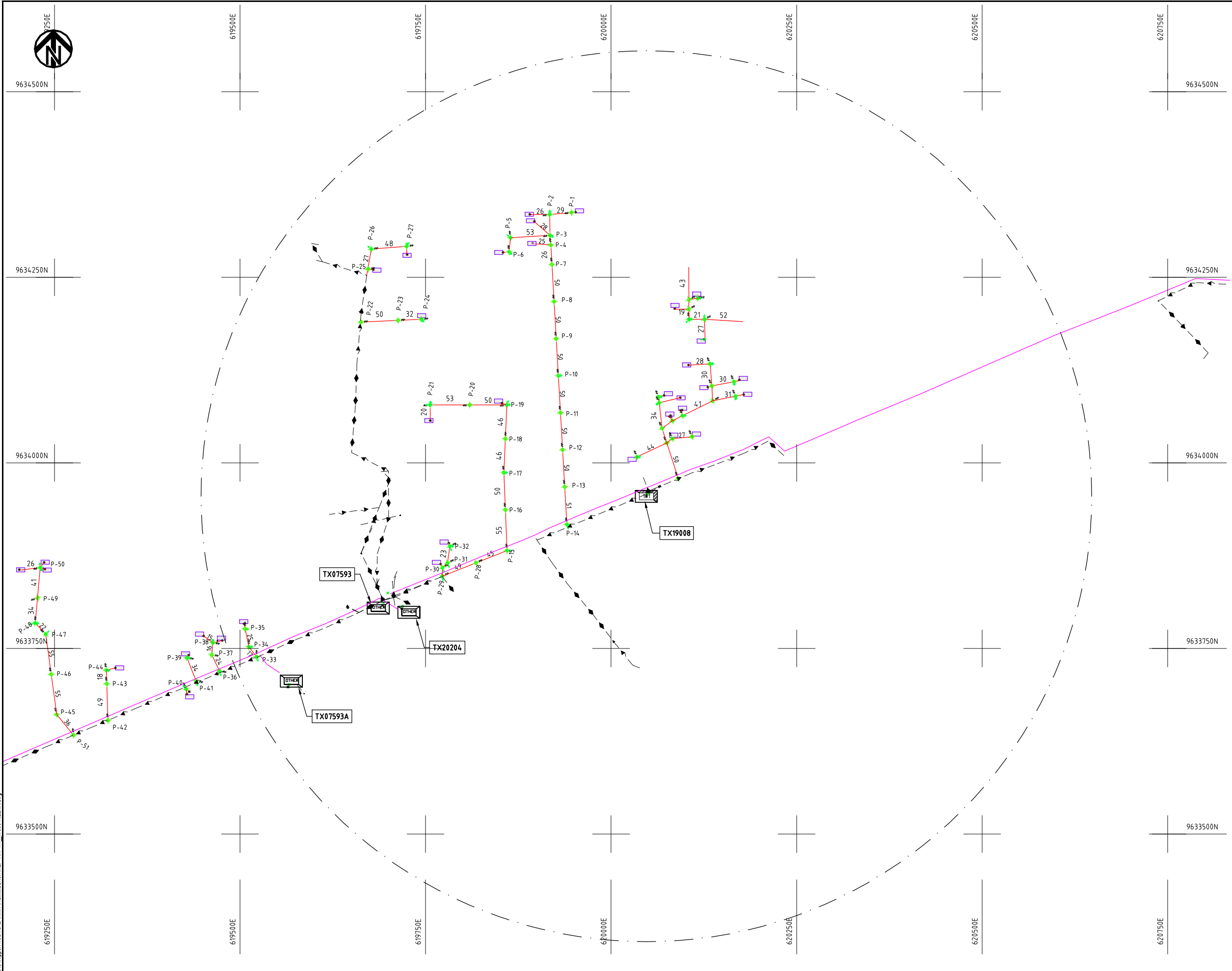
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-113\_19328 KIPEPE0.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 19328 - KIPEPE0		KLF-MA-113	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

KEY PLAN

**LEGEND**

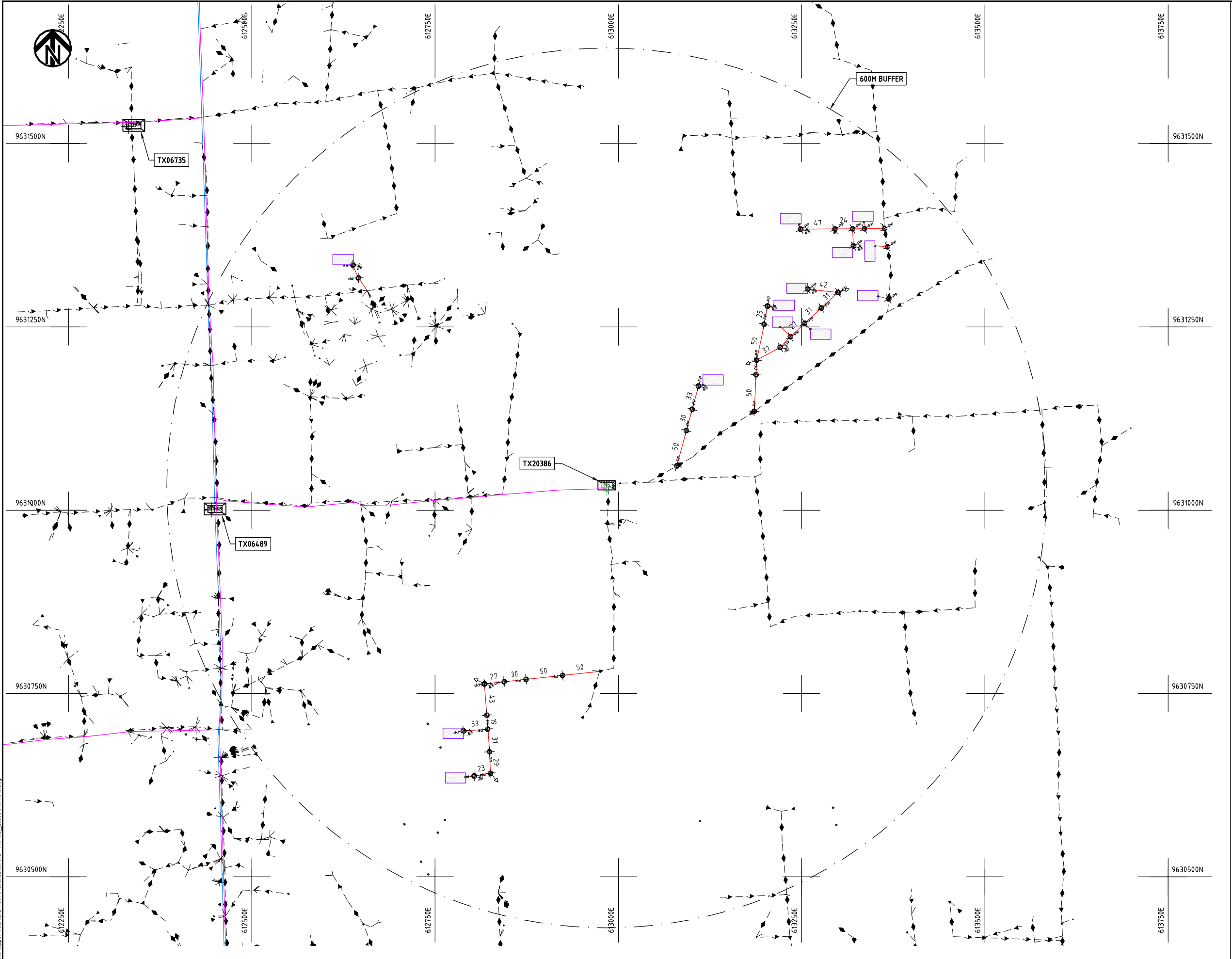
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-114\_19008\_MELINA.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 19008 - MELINA		KLF-MA-114	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY

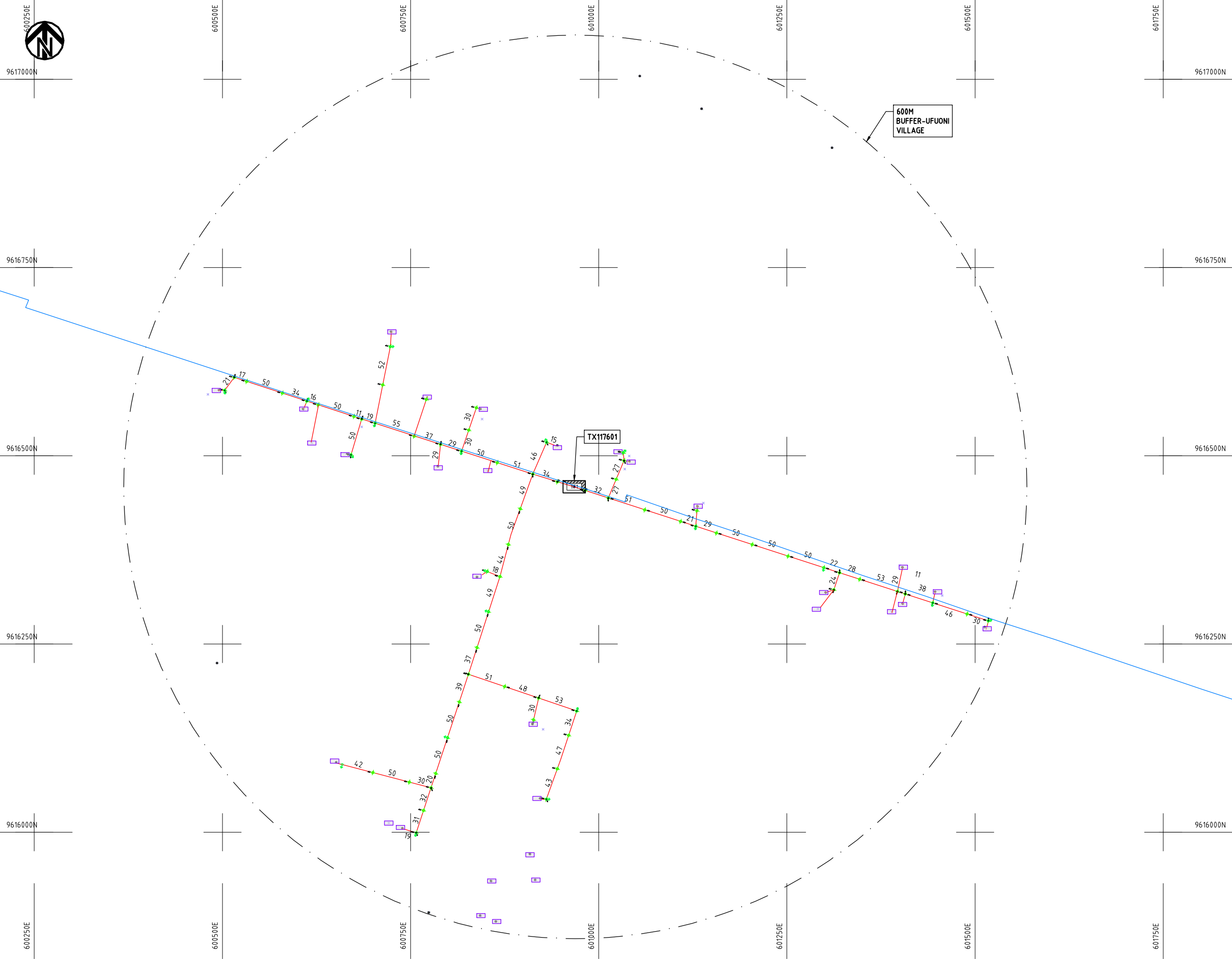
SCALE 1:5000 (A3)

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-115\_20386\_WATAMU.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI			CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION		KLF-MA-115	APPROVED BY	Y.TANAKA
	PROJECT SITE: 20386 - WATAMU			DATE	10th SEP 2018







**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



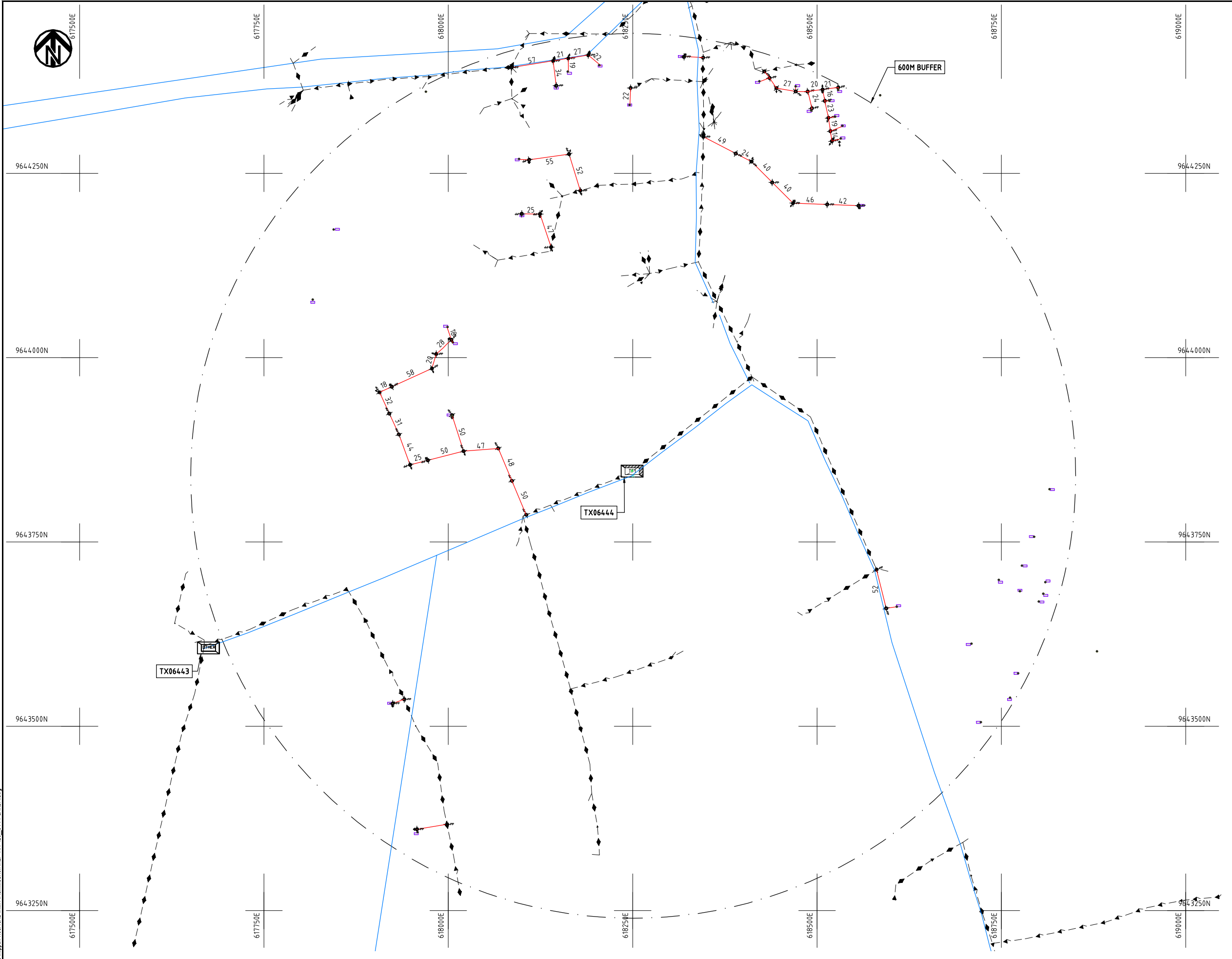
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PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 117601 UFUONI

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-116	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



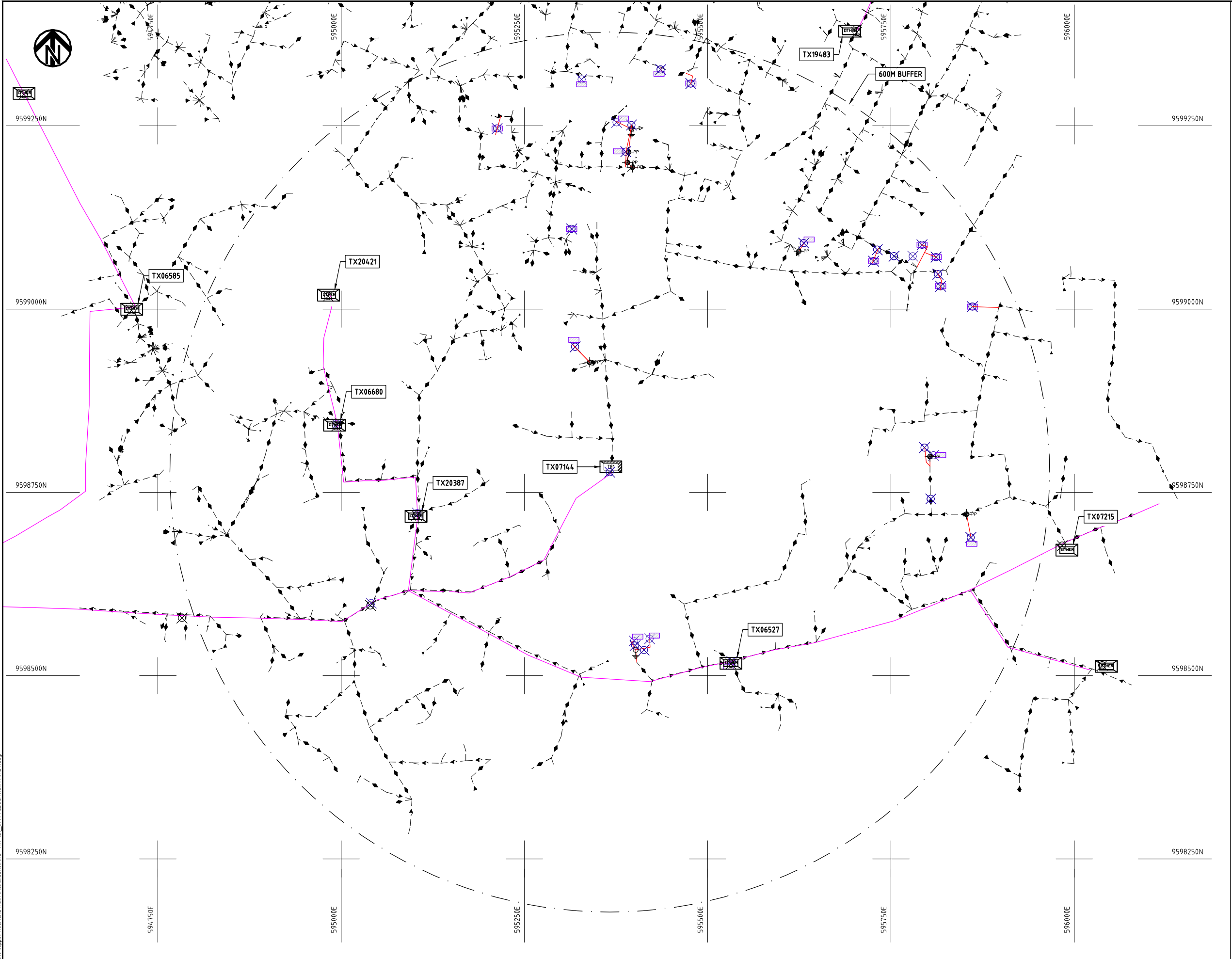
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PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 06444-GANDA

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-120	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No.: D:\Frank-Proj\2018\Nippon Koei\Kilifi\Maximisation\KLF-MA-121\_07144\_EDUCATION\_FAMILY.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07144 EDUCATION FAMILY		KLF-MA-121	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018



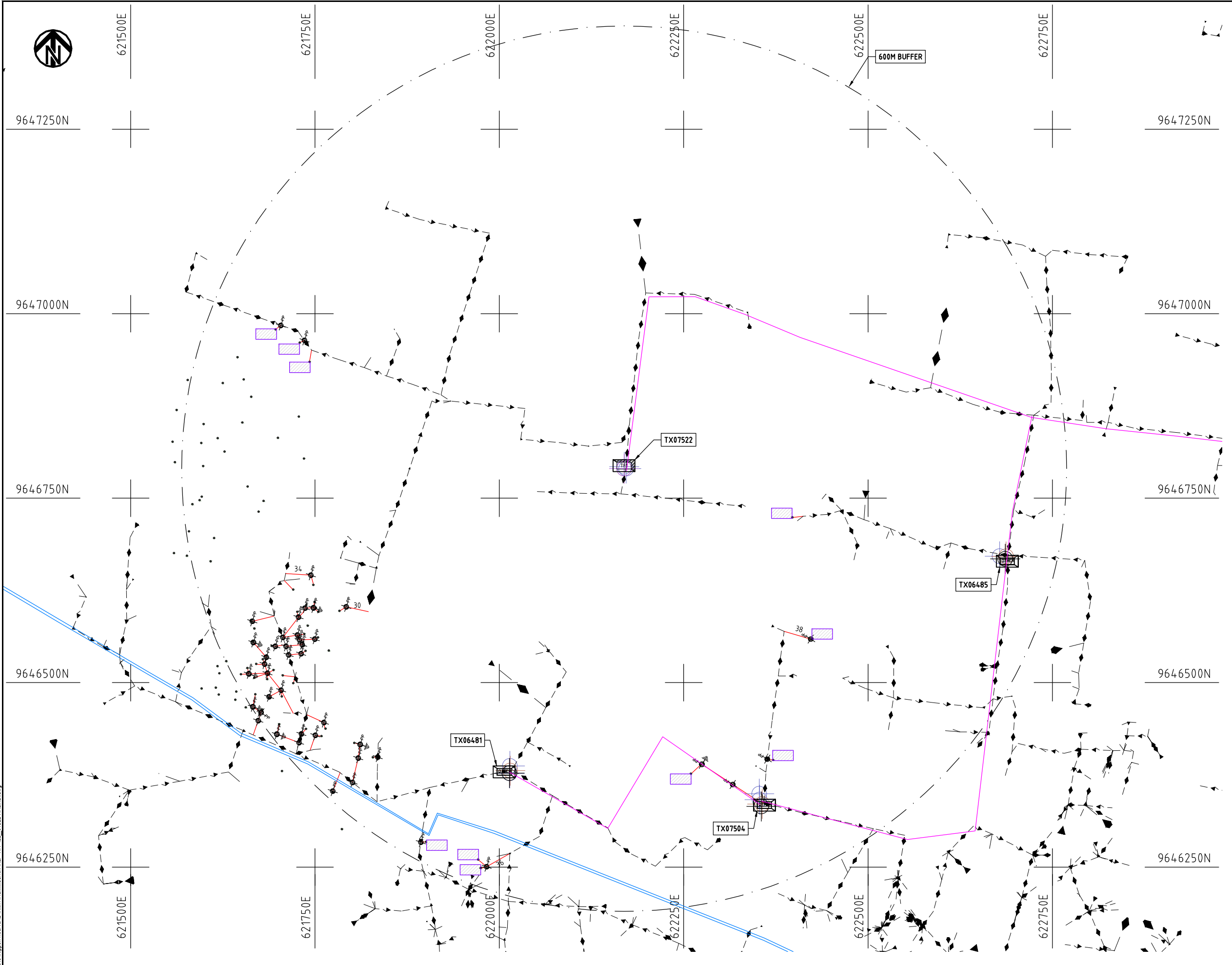


**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximization\KLF-MA-122\_07522\_MALINDI.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07522 MALINDI		KLF-MA-122	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018



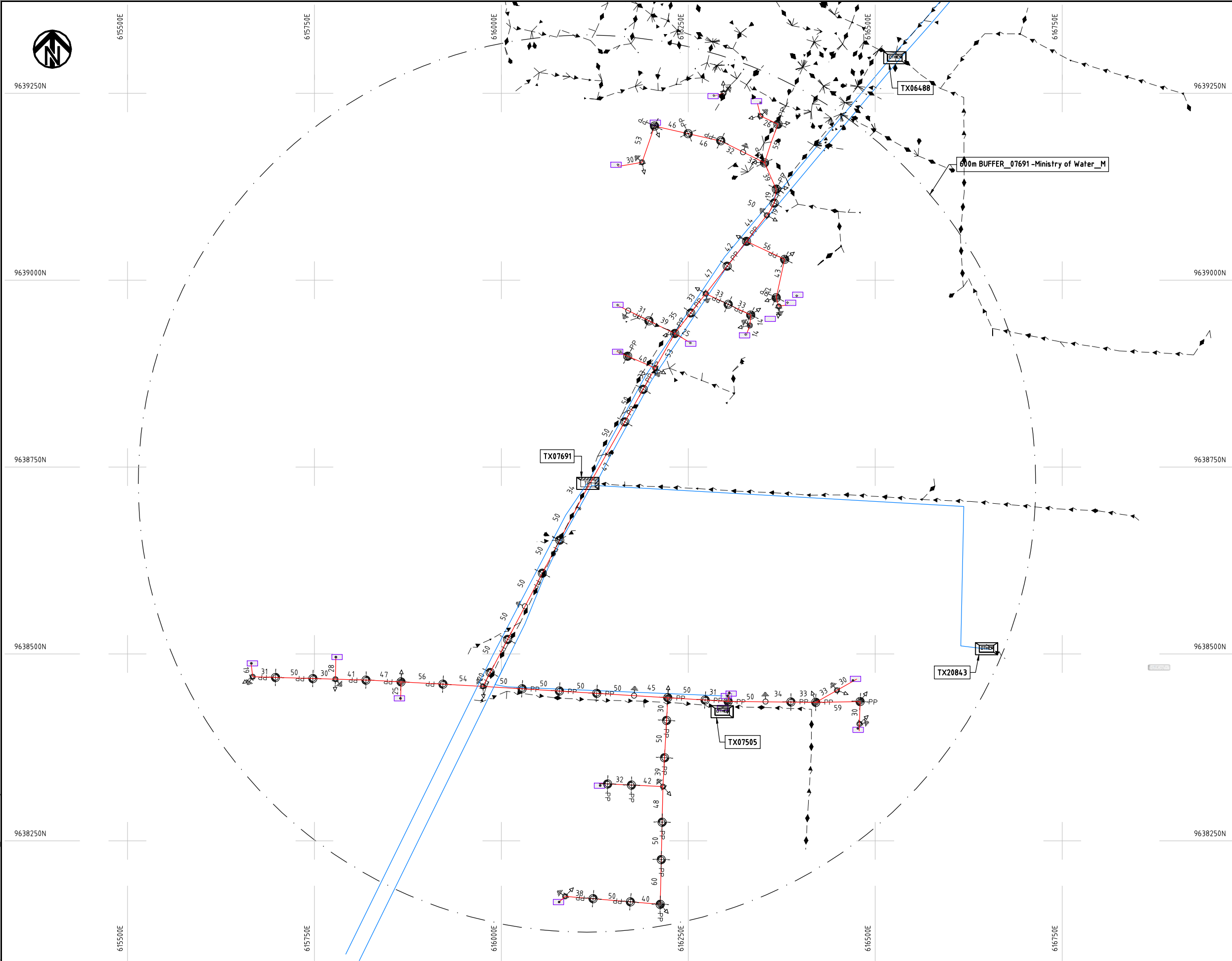


**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

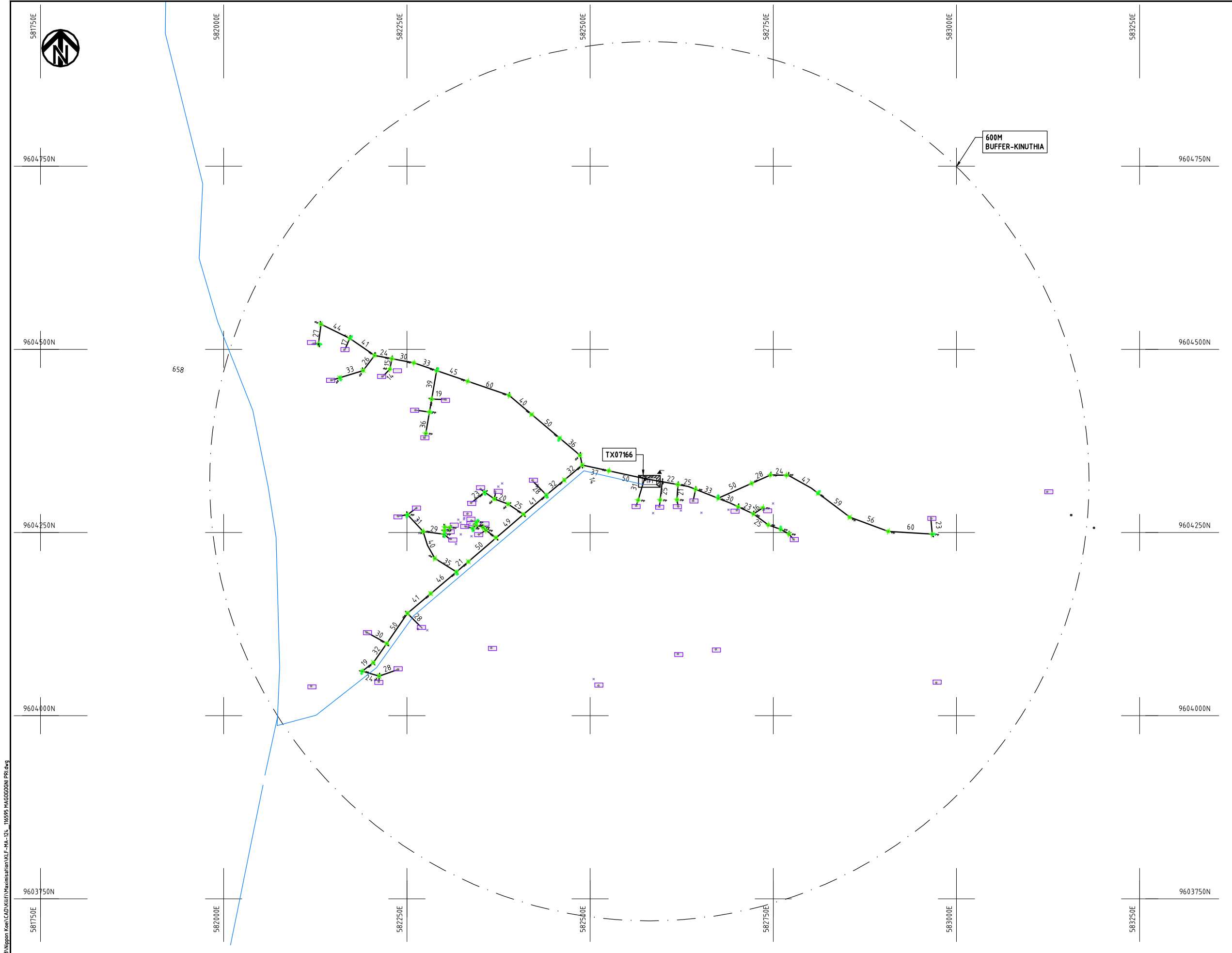
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-123\_07691 MINISTRY.dwg  
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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07691 MINISTRY		KLF-MA-123	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

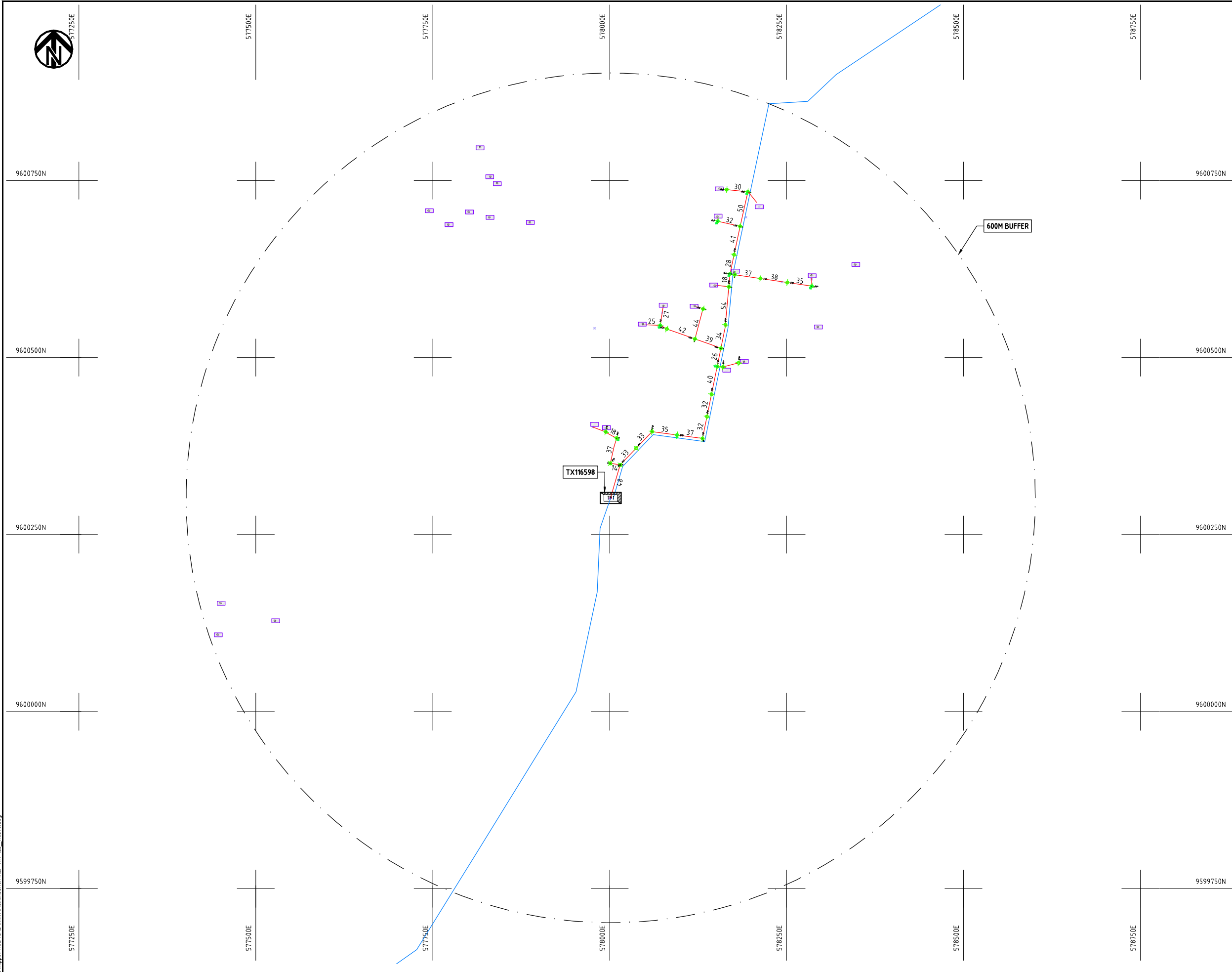
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED 11kV
  - PROPOSED 33kV
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES 12M
  - CONCRETE ELECTRIC POLES 11M
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-124\_116595 MAGOGOGNI PRL.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 116595 MAGOGOGNI PRIMARY		KLF-MA-124	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-125\_116598.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI	PROJECT SITE: 116598 -116598	KLF-MA-125	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION	APPROVED BY			Y.TANAKA	
DATE	10th SEP 2018				







9635750N

610000E

610250E

610500E

610750E

611000E

611250E

9635500N

9635250N

9635000N

9634750N

610000E

610250E

610500E

610750E

611000E

611250E

600M BUFFER

TX064.77

### NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

### LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

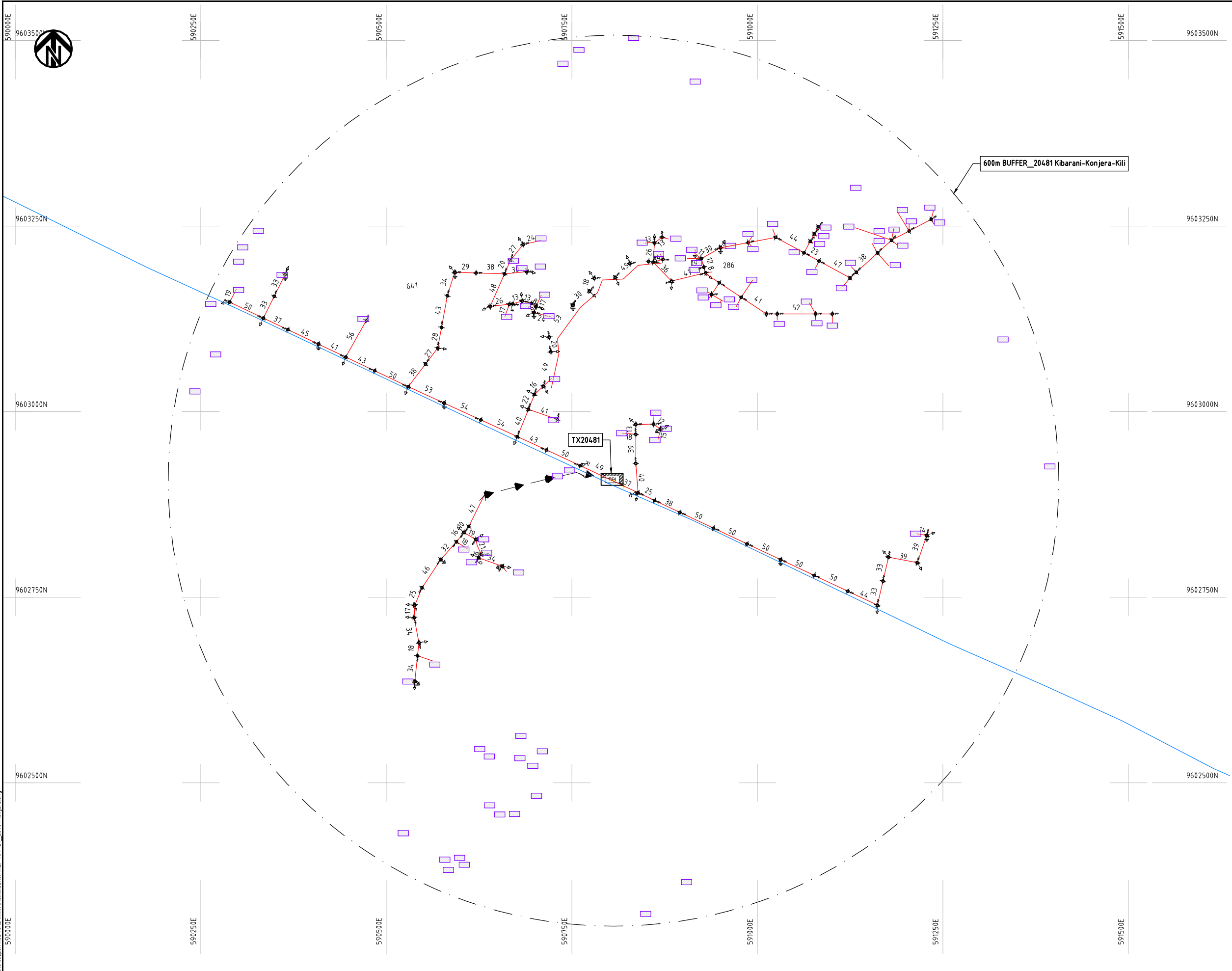


PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 06477-GEDE FOREST

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-126	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

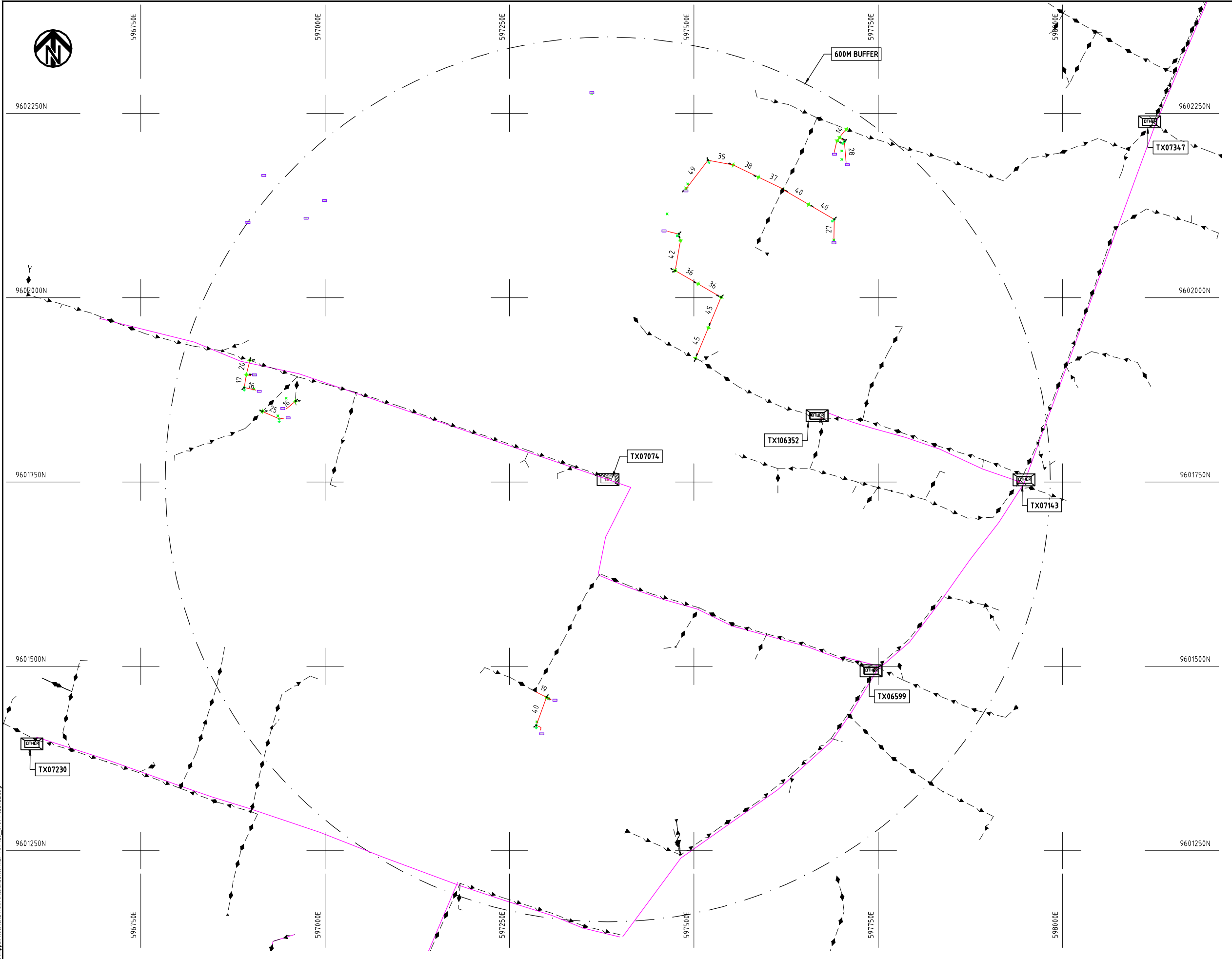
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No.: D:\Frank-Proj\2018\Nippon Koei\Kilifi\Maximisation\KLF-MA-127\_20481 Konjera.dwg  
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 590250E  
 590500E  
 590750E  
 591000E  
 591250E  
 591500E  
 9602500N  
 9602750N  
 9603000N  
 9603250N  
 9603500N

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 20481 KONJERA		KLF-MA-127	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

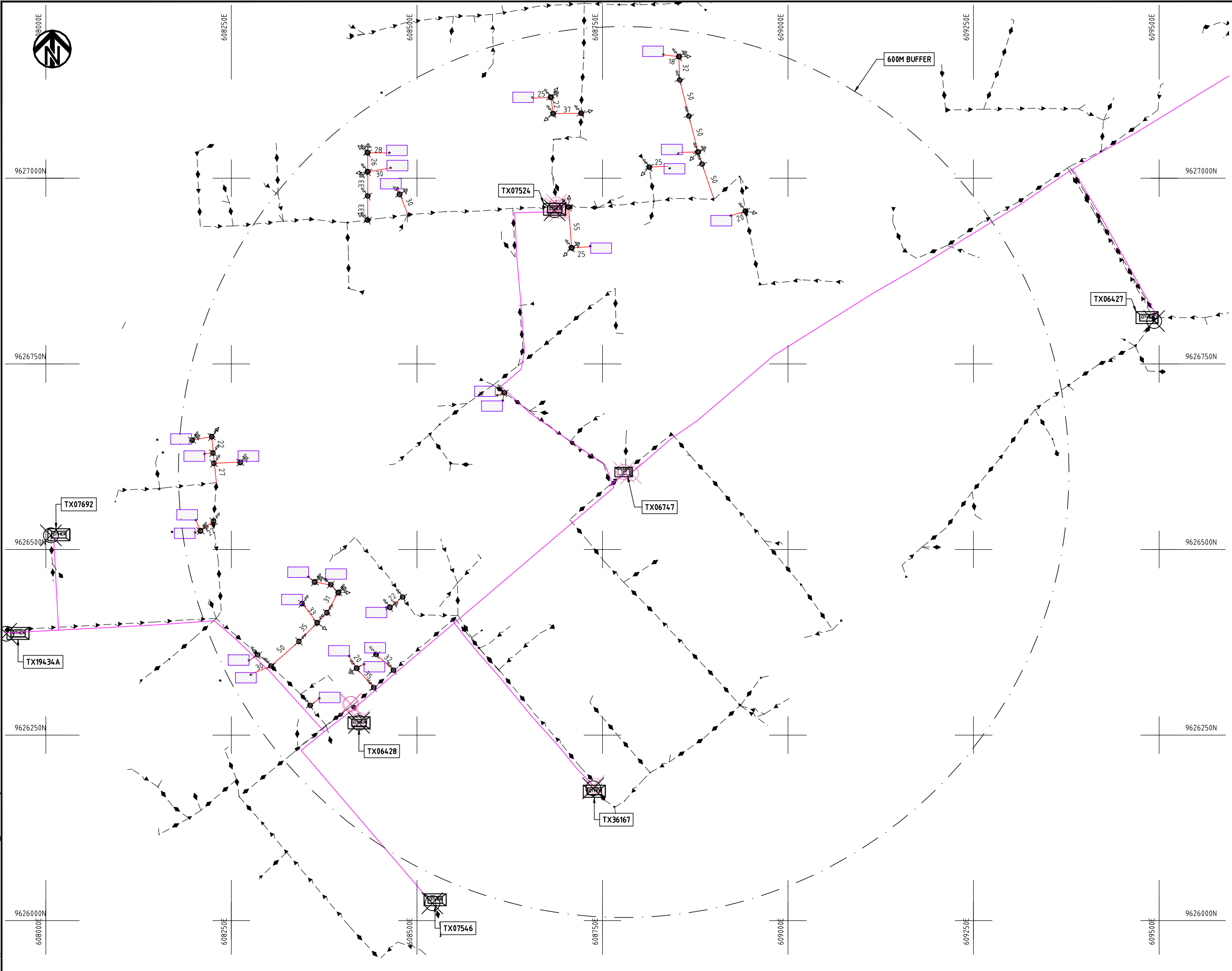
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED 11kV
  - PROPOSED 33kV
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES 12M
  - CONCRETE ELECTRIC POLES 11M
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-128\_07074\_CELTEL.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-128	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 07074-CELTEL			DATE	10th SEP 2018



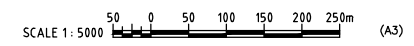


**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Caf File No. D:\Frank-Proj\2018\Nippon Koei\Kilifi\Maximisation\KLF-MA-129\_06747.L.RIEDL.dwg

PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 06747 - L. RIEDL

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-129	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





619000E

619250E

619500E

619750E

620000E

620250E

620500E

9634250N

9634250N

9634000N

9634000N

9633750N

9633750N

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619000E

619250E

619500E

619750E

620000E

620250E














620500E

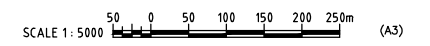
**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

KEY PLAN

**LEGEND**

-  HOUSEHOLDS/ BUILDINGS
-  PROPOSED DISTRIBUTION LINE
-  EXISTING 11kV LINE
-  EXISTING 33kV LINE
-  EXISTING DISTRIBUTION LINE
-  MAXIMISATION TRANSFORMER
-  EXTENSION TRANSFORMER
-  OTHER EXISTING TRANSFORMER
-  WOODEN ELECTRIC POLES
-  CONCRETE ELECTRIC POLES
-  LV-EARTH
-  PME -PROTECTIVE MULTIPLE EARTHING
-  STAY



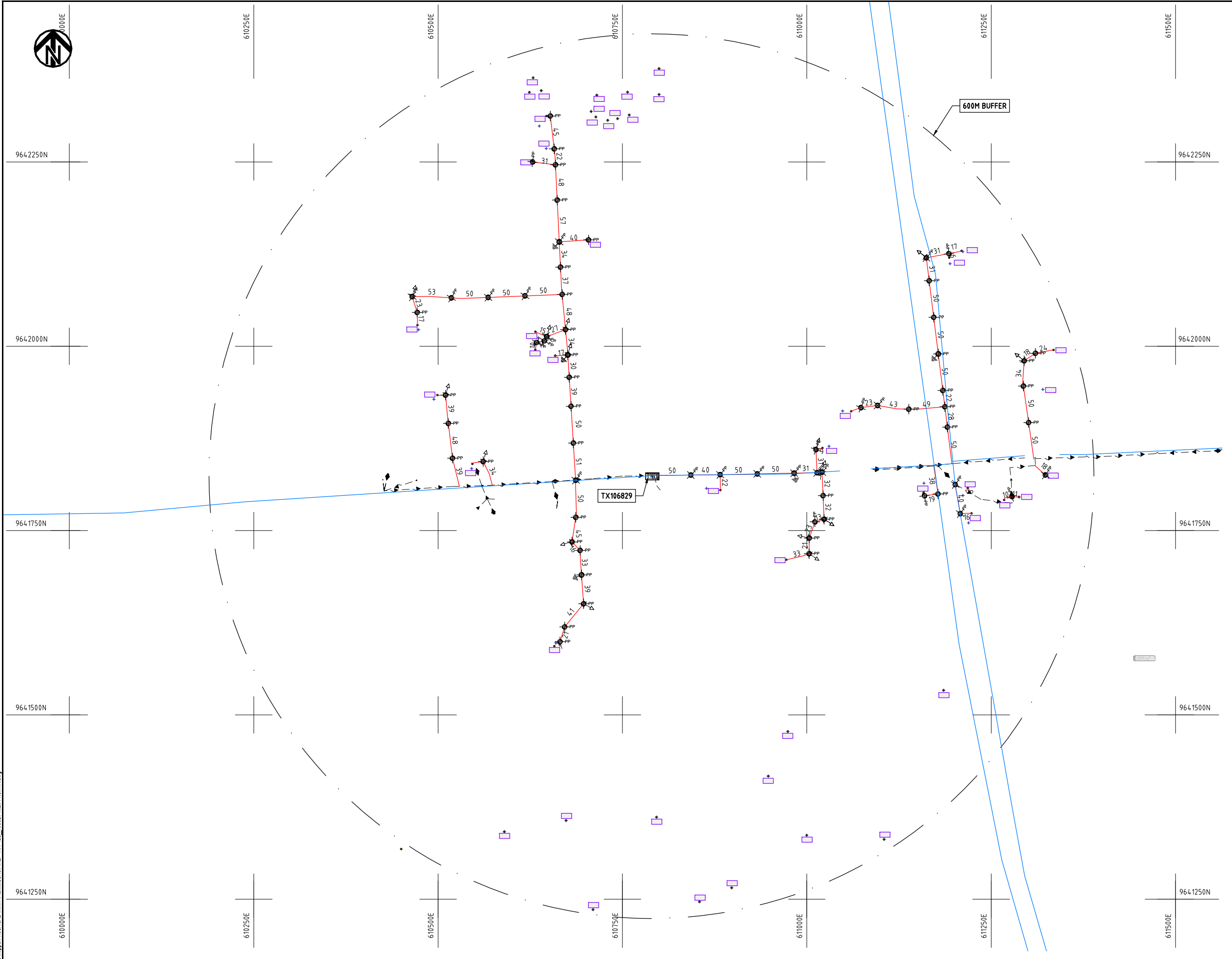
PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 20204-JACARANDA HOTELS

DRAW. NO.	PREPARED BY	A.AKBAR
	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



Cad File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-130-20204-JACARANDA HOTELS.dwg



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

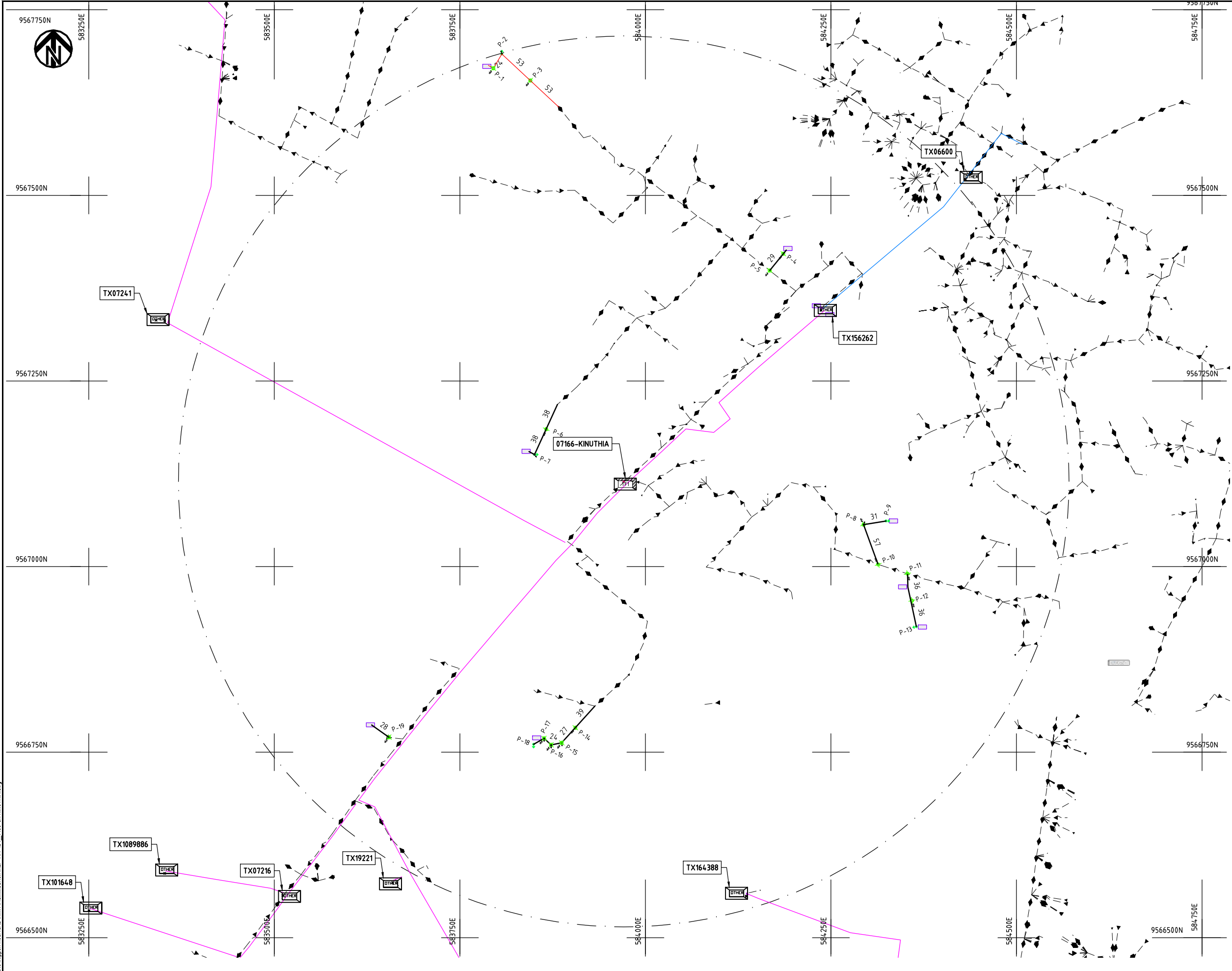
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-133\_106829\_KILIFI NORTH.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-133	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 106829 KILIFI NORTH			DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY

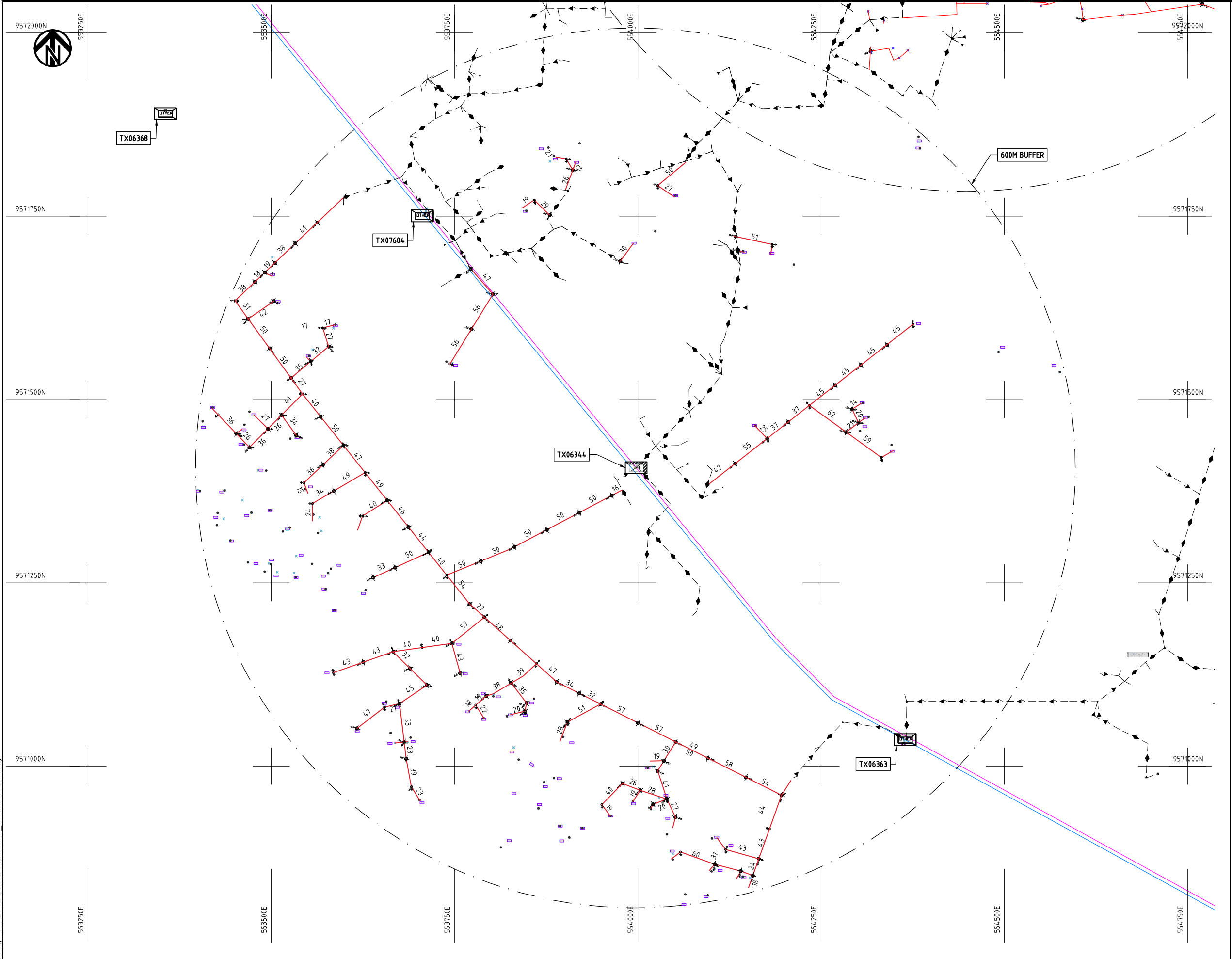


Cad File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-134\_T166-R\_KINUTHIA.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07166-JR KINUTHIA		KLF-MA-134	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018







- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-135-ABDALLA KHAMIS.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 06344-ABDALLA KHAMIS		KLF-MA-135	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





555000E

555250E

555500E

555750E

556000E

556250E

9572250N

9572250N

9572000N

9572000N

9571750N

9571750N

9571500N

9571500N

9571250N

9571250N

555000E

555250E

555500E

555750E

556000E

556250E

600M BUFFER  
20724 - KAPUTUKU -  
KIBANDAHASAR

TX20724

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: KILIFI  
SCHEME: MAXIMIZATION  
PROJECT SITE: 20724-KAPTUKU STELLA KATWA KOKOTONI

DRAW. NO.

KLF-MA-136

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

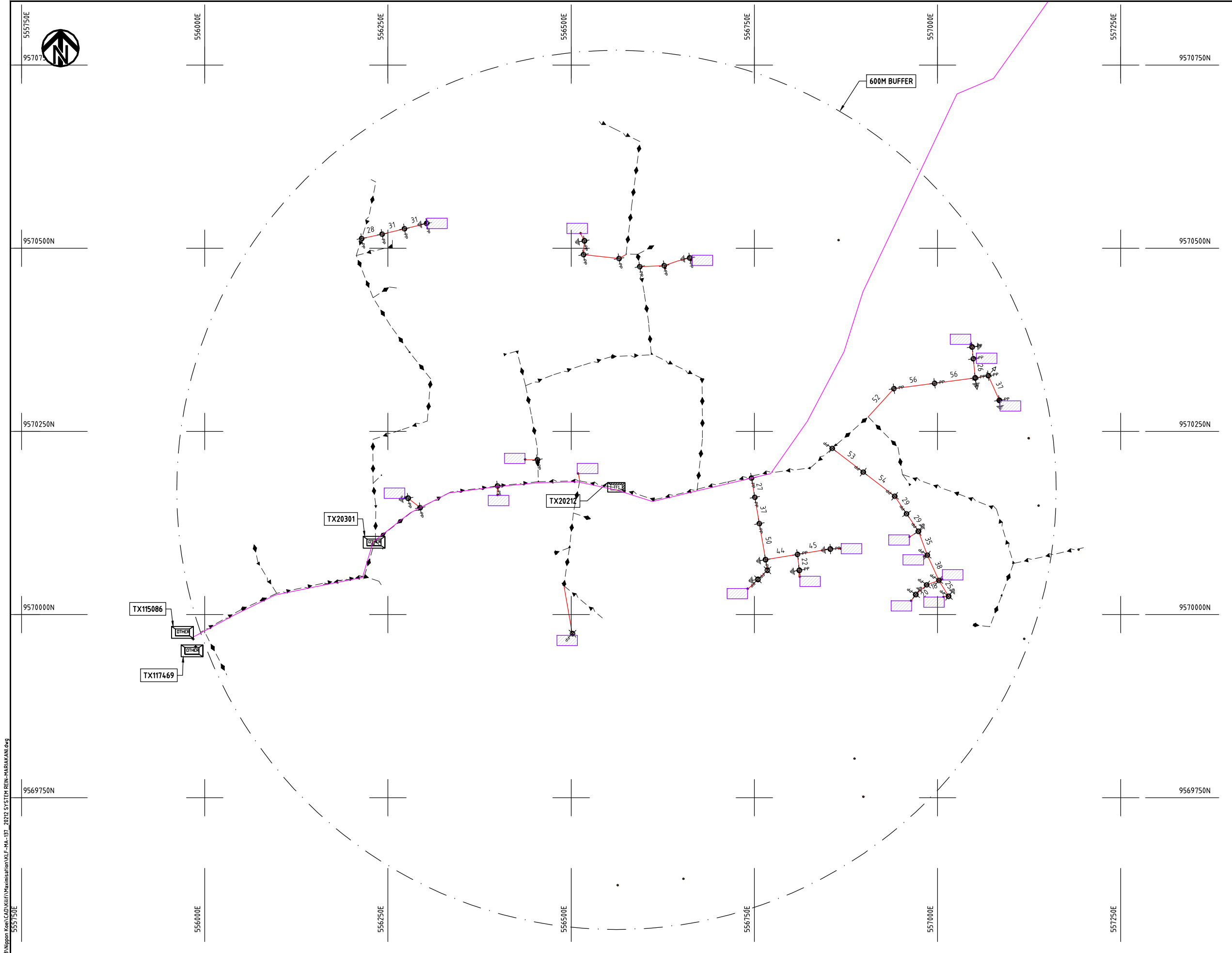
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY

SCALE 1:5000 (A3)

Cad File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-137\_2012 SYSTEM REIN-MARIAKANI.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-137	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 20212 - SYSTEM REIN MARIAKANI			DATE	10th SEP 2018	





9586000N

9585750N

9585500N

9585250N

9585000N

558250E

558500E

558750E

559000E

559250E

559500E

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9585000N

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558500E

558750E

559000E

559250E

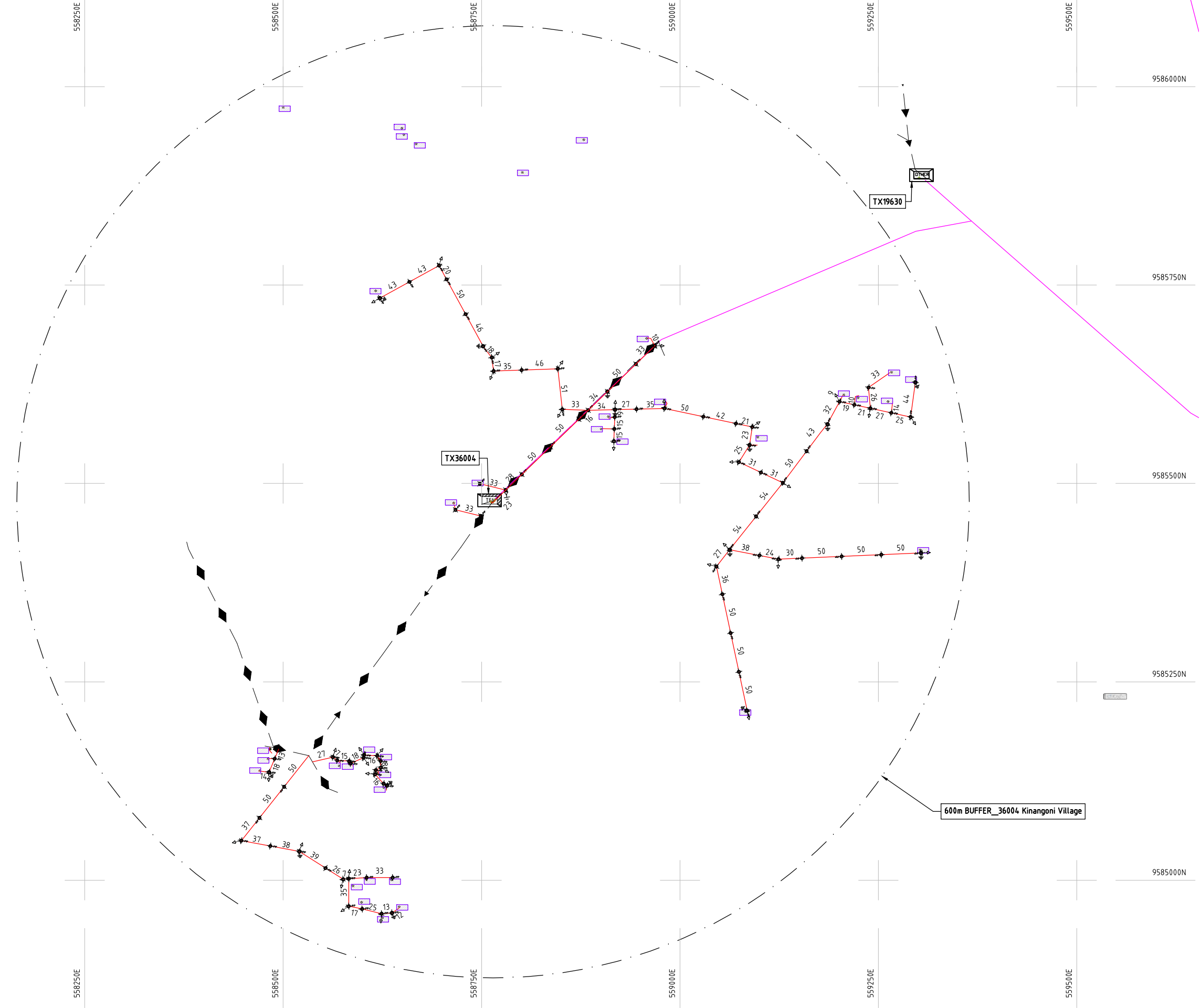
559500E

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



600m BUFFER\_36004 Kinangoni Village

SCALE 1:5000 (A3)

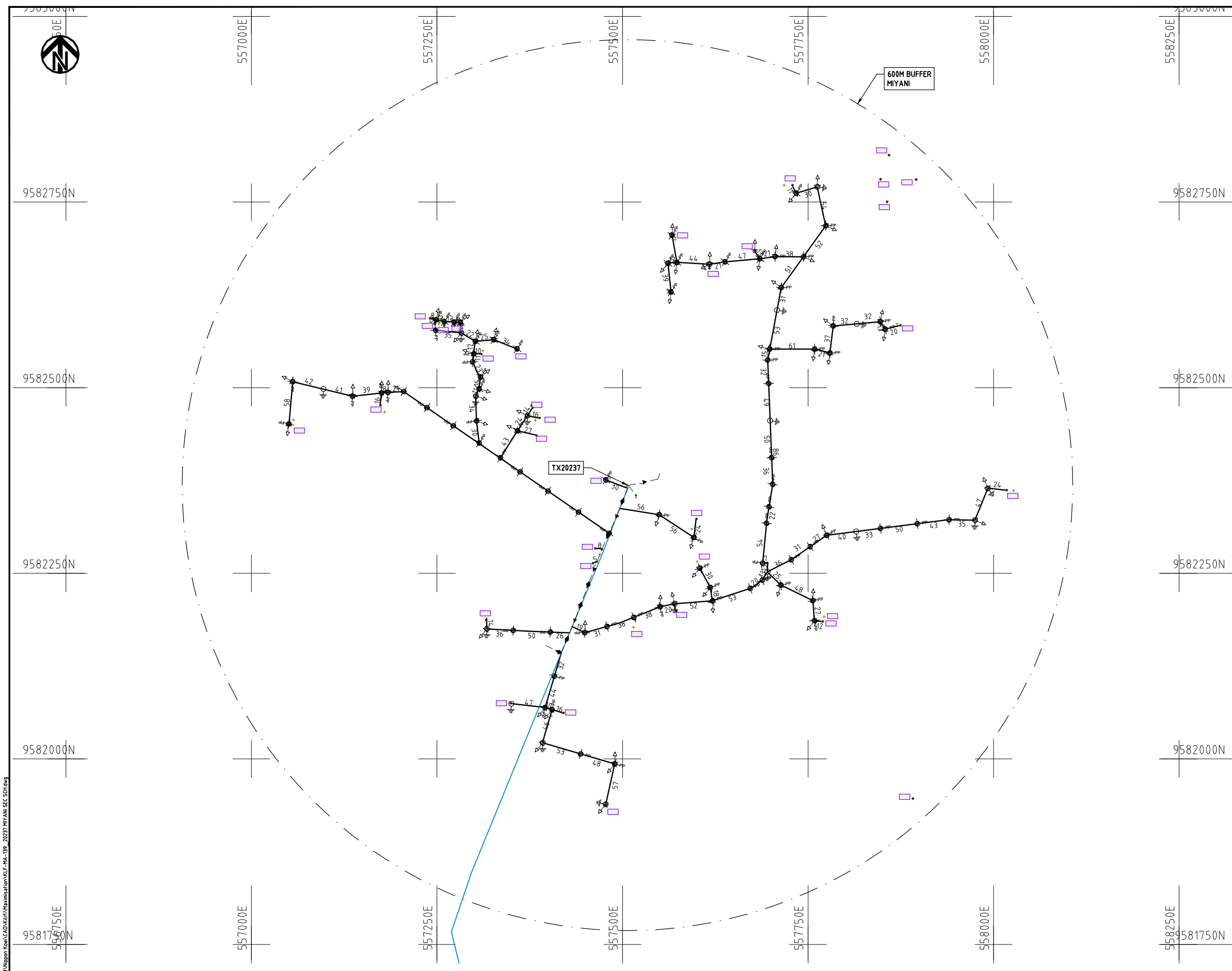
PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 36004 KINAGONI VILLAGE GOTANI

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-138	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



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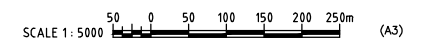


**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



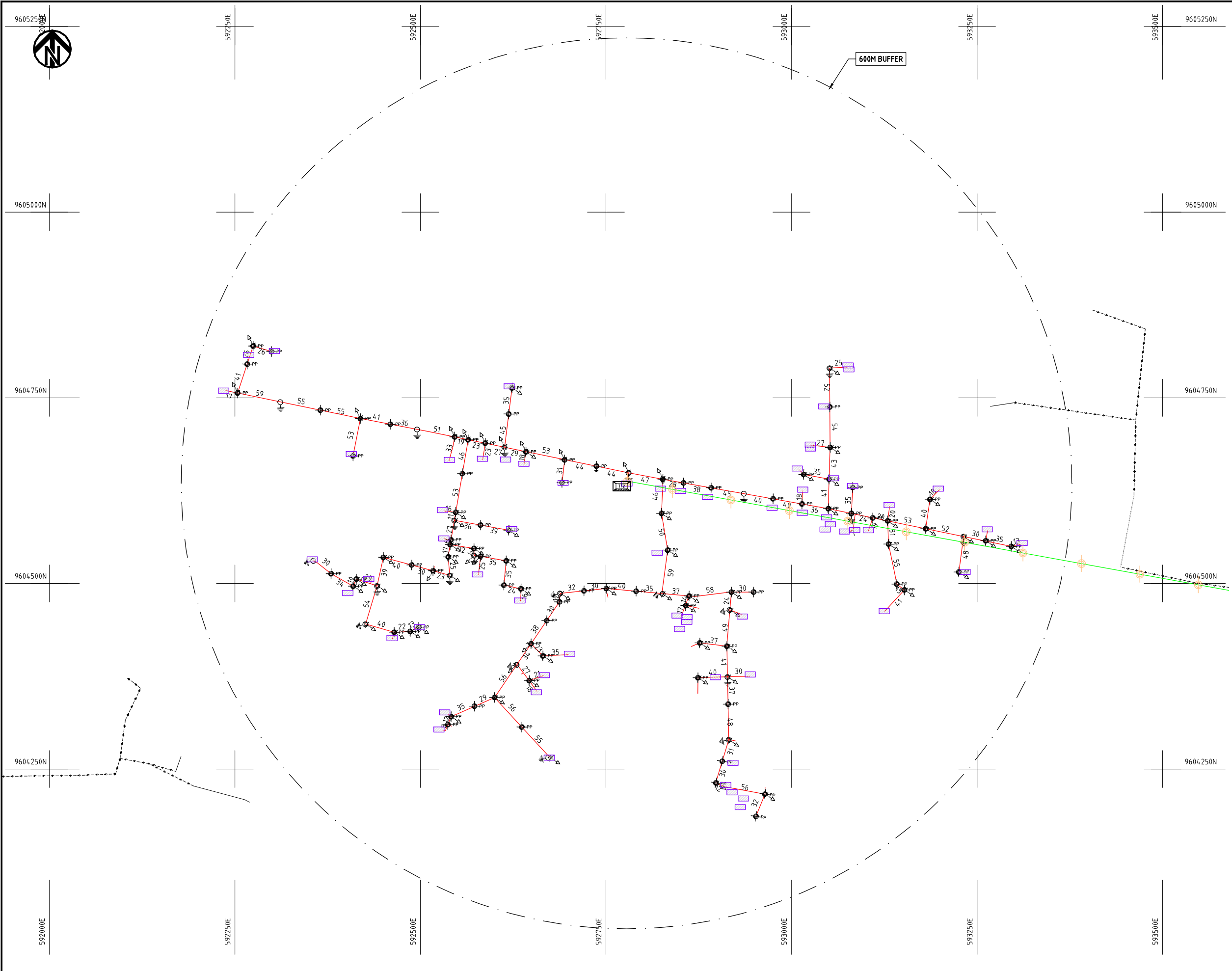
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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 20237 MIYANI SEC SCH		KLF-MA-139	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018

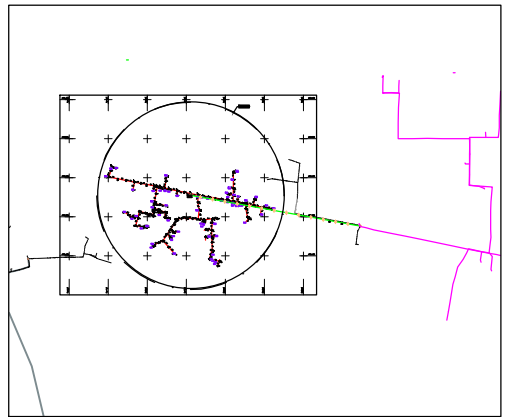


***Kilifi County***

***Extension and Maximization***



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



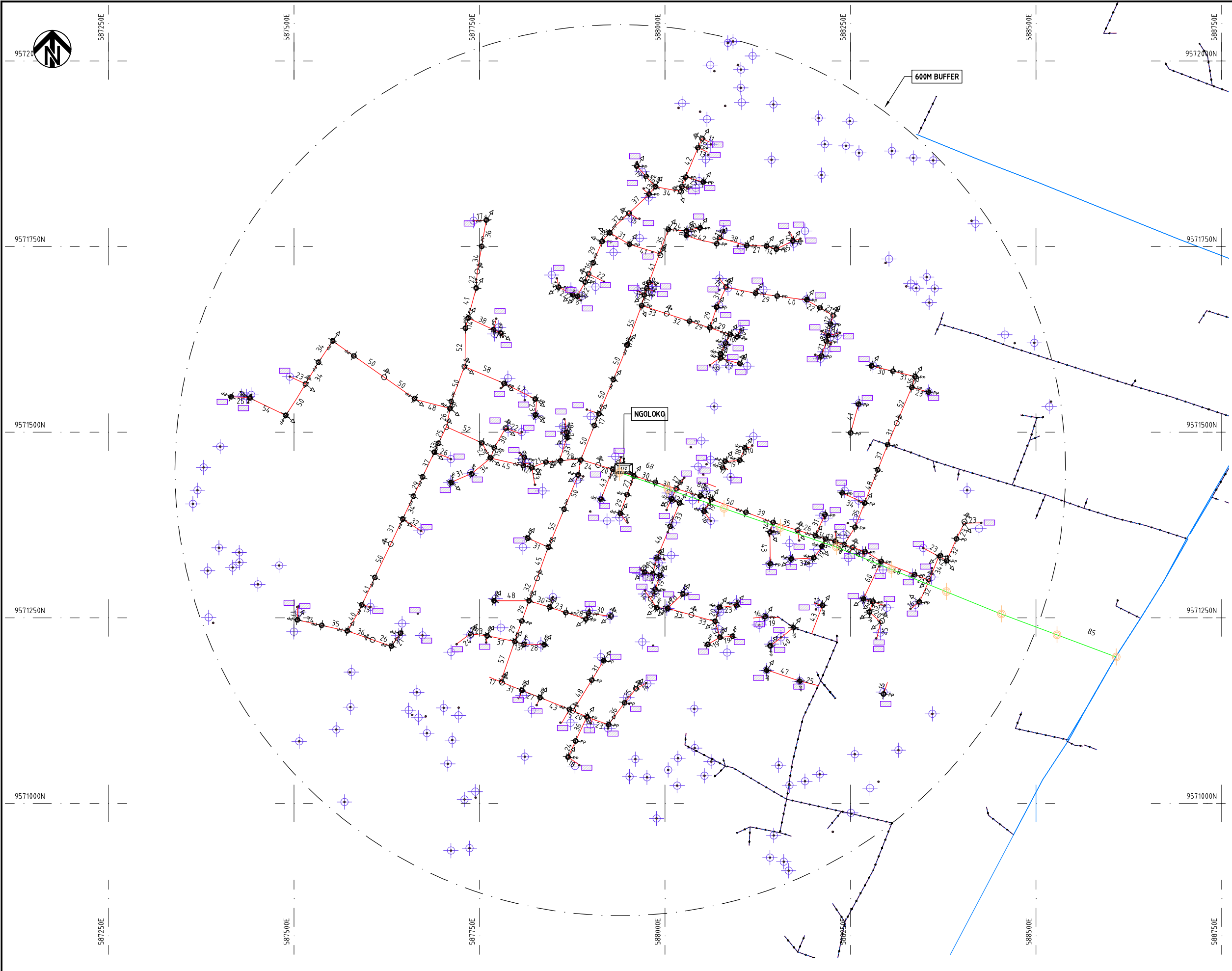
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: EXTENSION PROJECT SITE: MKINGIRINI PRIMARY ENVI		KLF-EX-1	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018







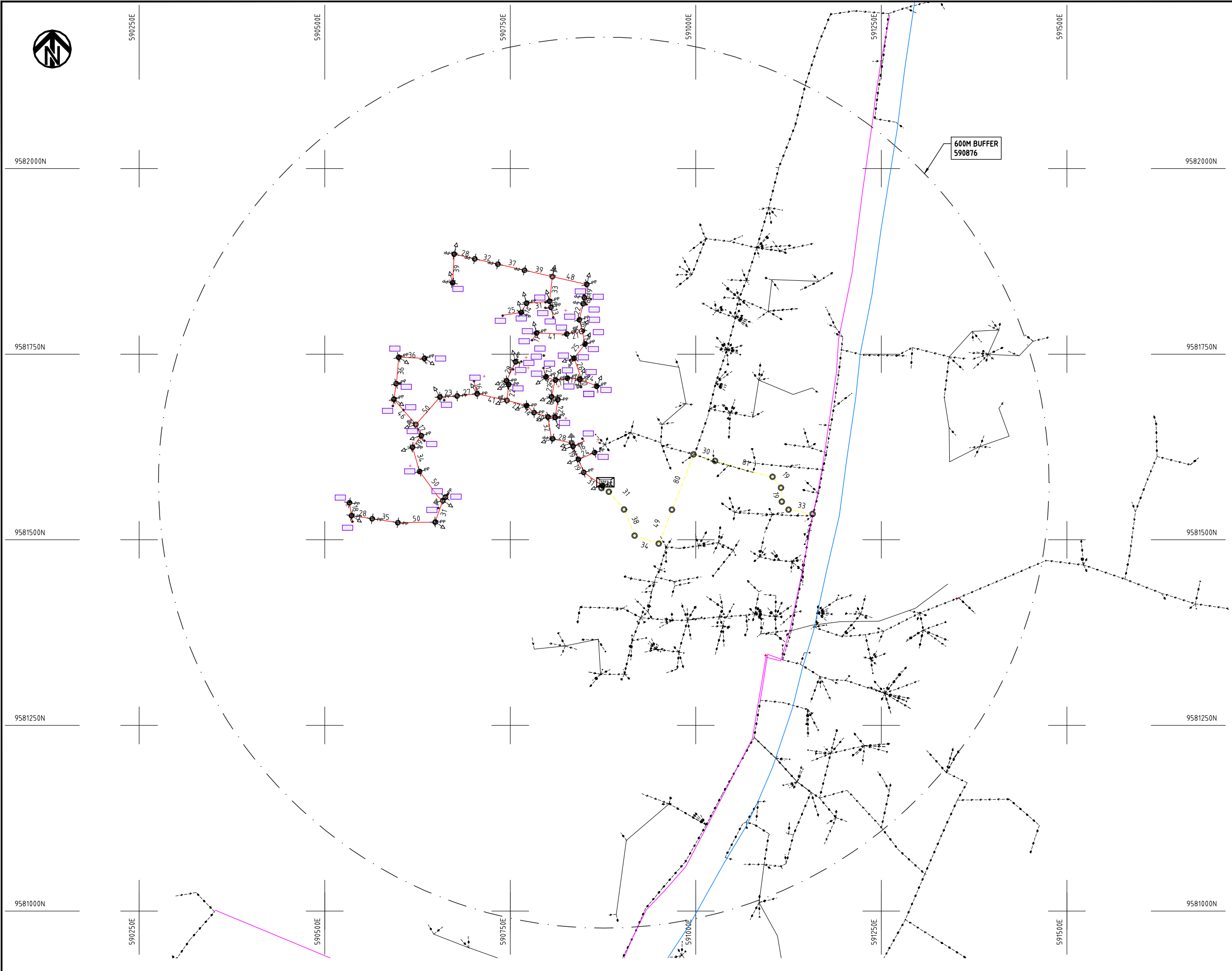
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI	PROJECT SITE: NGOLOKO VILLAGE	KLF-EX-2	CHECKED BY	S.MAETA
SCHEME: EXTENSION	APPROVED BY			Y.TANAKA	
DATE	10th SEP 2018				





**NOTES:**

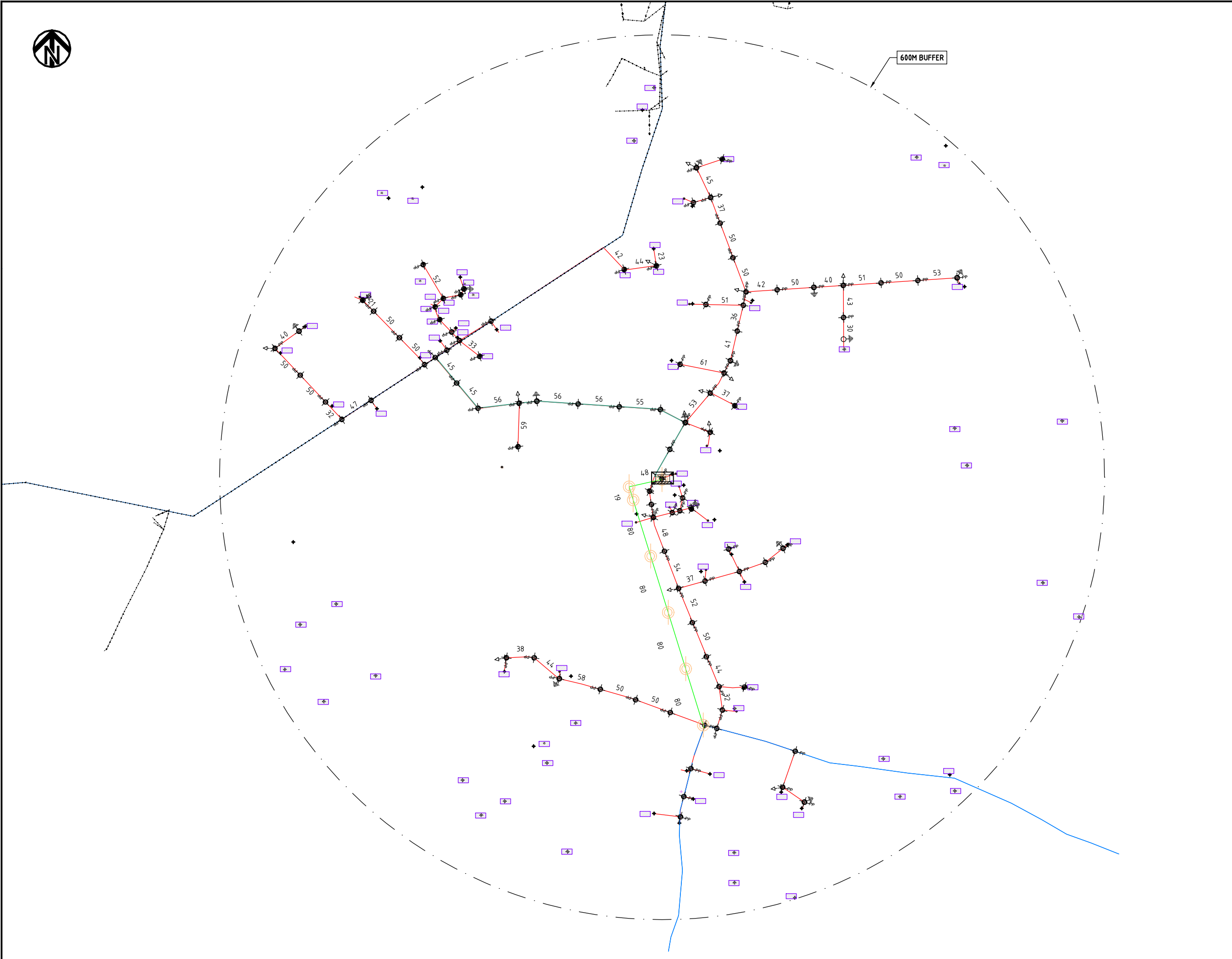
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT:	<b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE	DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: KILIFI SCHEME: EXTENSION PROJECT SITE: SHARIANYI MAJENGO MAPYA	KLF-EX-3	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

	HOUSEHOLDS/ BUILDINGS
	PROPOSED 11kV
	Proposed 33kV
	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	WOODEN ELECTRIC POLES
	CP CONCRETE ELECTRIC POLES 12M
	CP CONCRETE ELECTRIC POLES 11M
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE COUNTY: KILIFI SCHEME: EXTENSION PROJECT SITE: KWA ABEID MWARAKAYA	DRAW. NO. KLF-EX-4	PREPARED BY A.AKBAR CHECKED BY S.MAETA APPROVED BY Y.TANAKA DATE 10th SEP 2018	NIPPON KOEI CO., LTD
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577250E

577500E

577750E

578000E

578250E

578500E

578750E

9585500N

9585250N

9585000N

9584750N

9584500N

577250E

577500E

577750E

578000E

578250E

578500E

578750E

600M-BUFFER

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



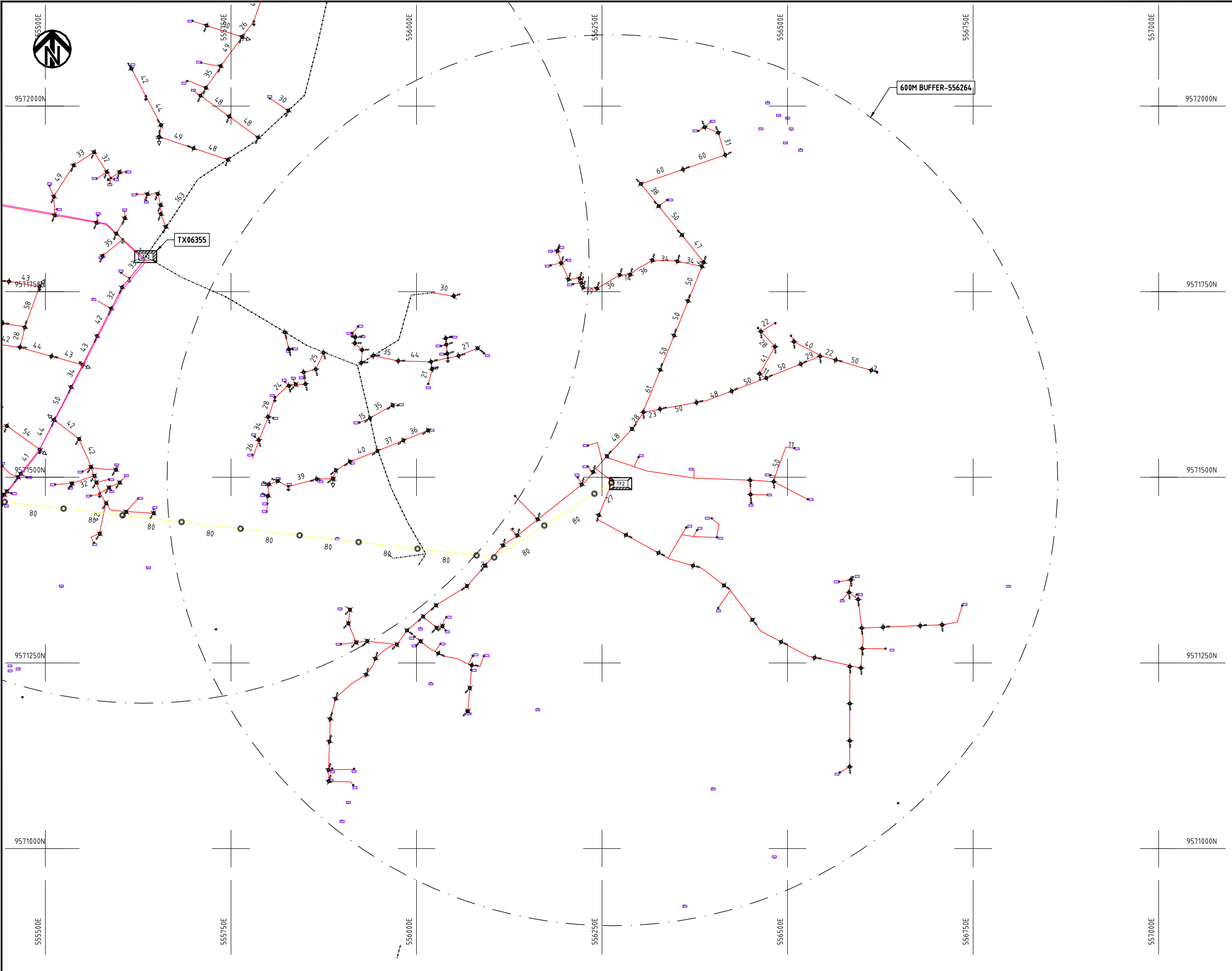
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PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

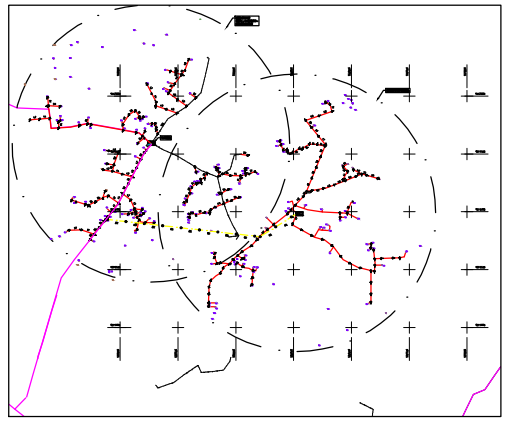
DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: KATIKIRIENYI VILLAGE CHONYI

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-EX-5	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

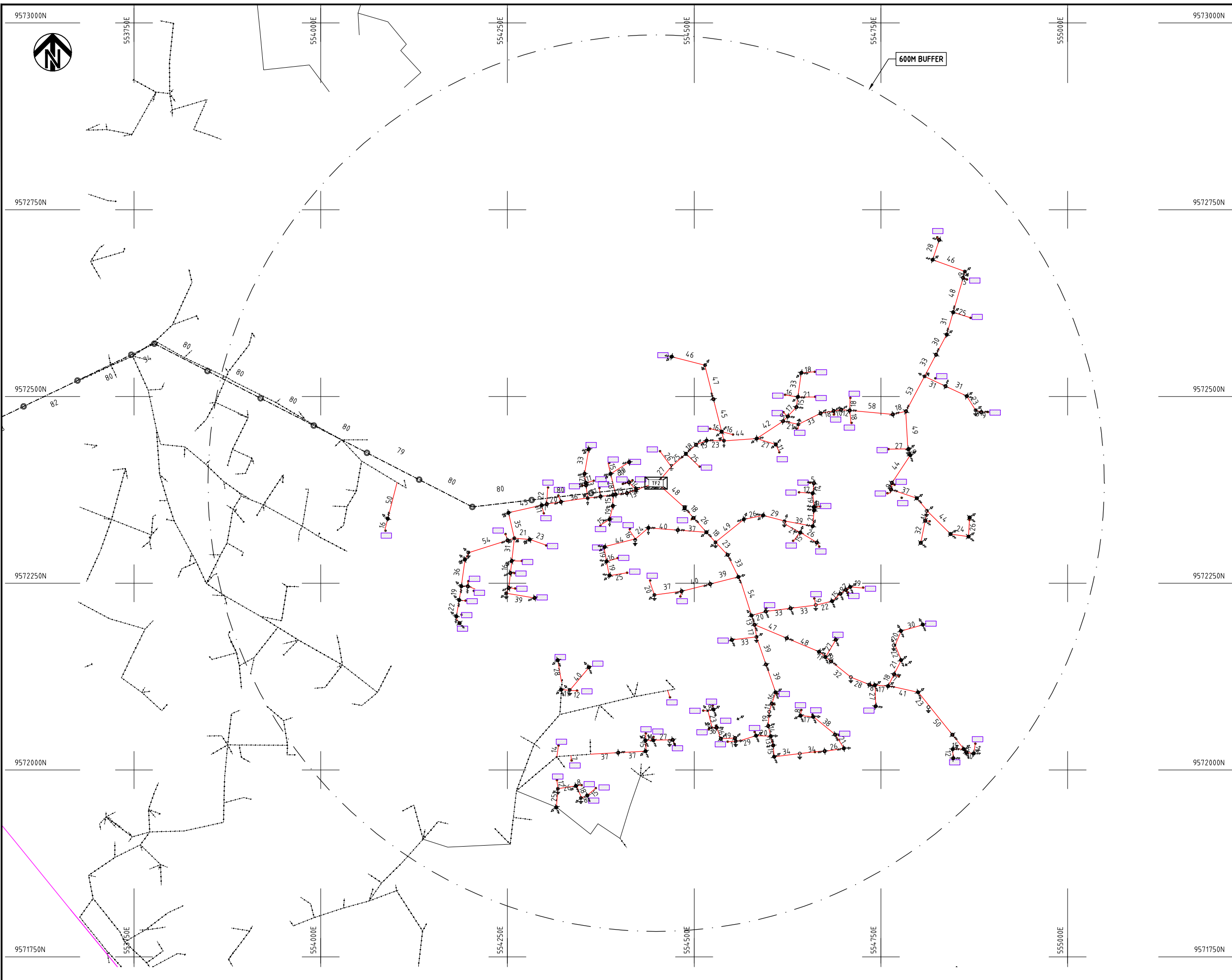


- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

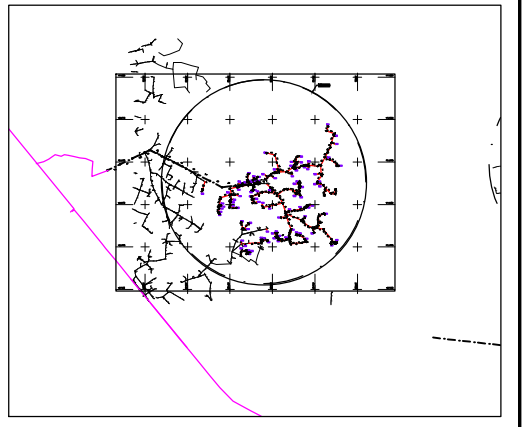


PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: EXTENSION PROJECT SITE: KWA CHIKOLOLO VILLAGE MARIAKANI		KLF-EX-6	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



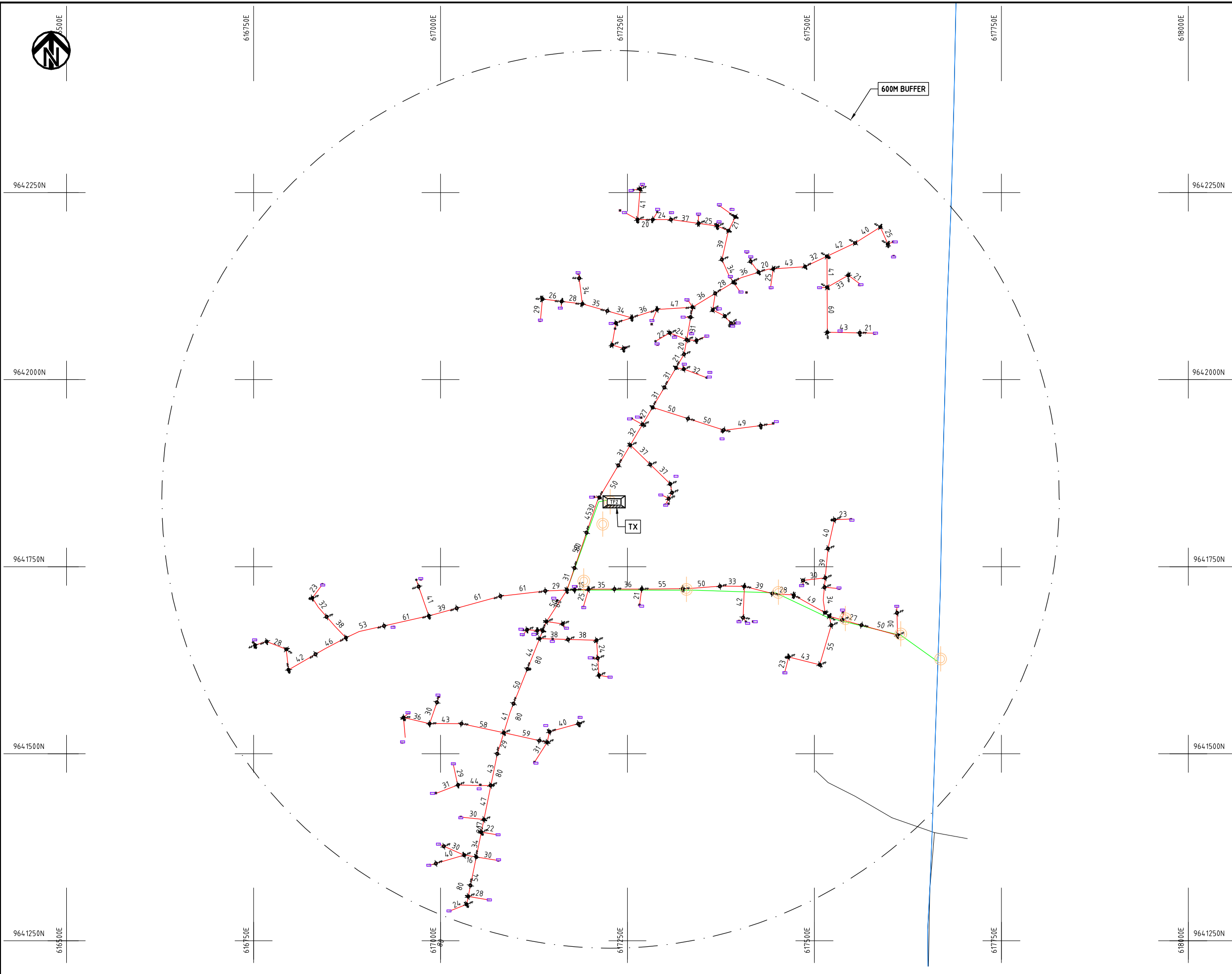
PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KILIFI  
 SCHEME: EXTENSION  
 PROJECT SITE: MKWAJUNI VILLAGE MARIAKANI

DRAW. NO. KLF-EX-7  
 PREPARED BY A.AKBAR  
 CHECKED BY S.MAETA  
 APPROVED BY Y.TANAKA  
 DATE 10th SEP 2018

(A3)  
 NIPPON KOEI CO., LTD





**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

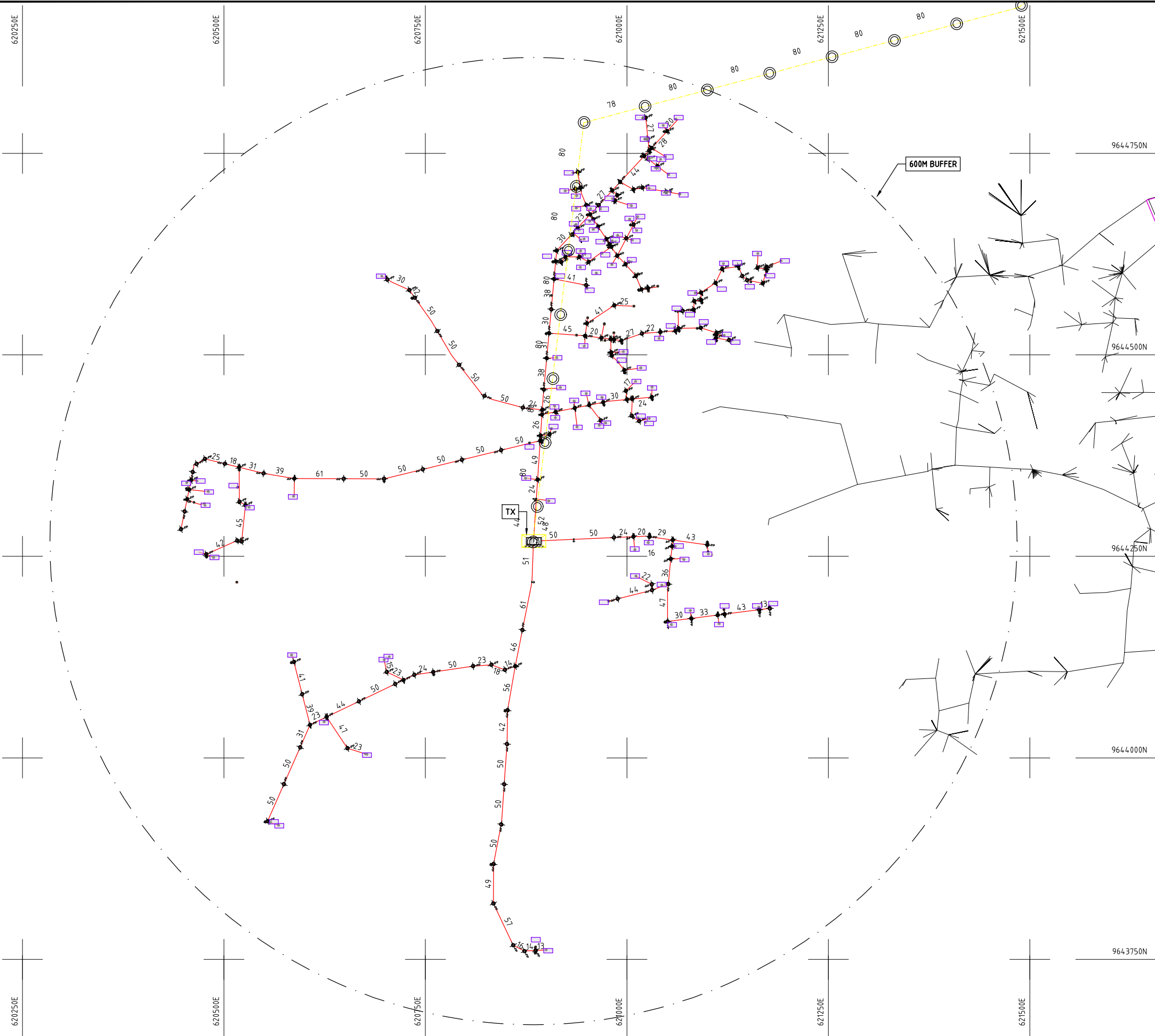
	HOUSEHOLDS/ BUILDINGS
	PROPOSED 11kV
	PROPOSED 33kV
	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	WOODEN ELECTRIC POLES
	CONCRETE ELECTRIC POLES 12M
	CONCRETE ELECTRIC POLES 11M
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	<b>DRAWING TITLE</b> COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: MSHONGOLENI JUNCTION	DRAW. NO. KLF-EX-8	PREPARED BY A.AKBAR	CHECKED BY S.MAETA	APPROVED BY Y.TANAKA	DATE 10th SEP 2018
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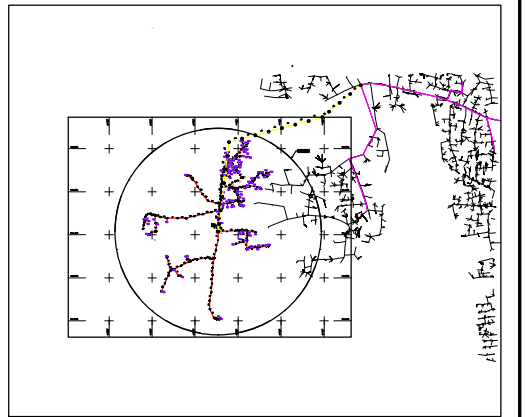






**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

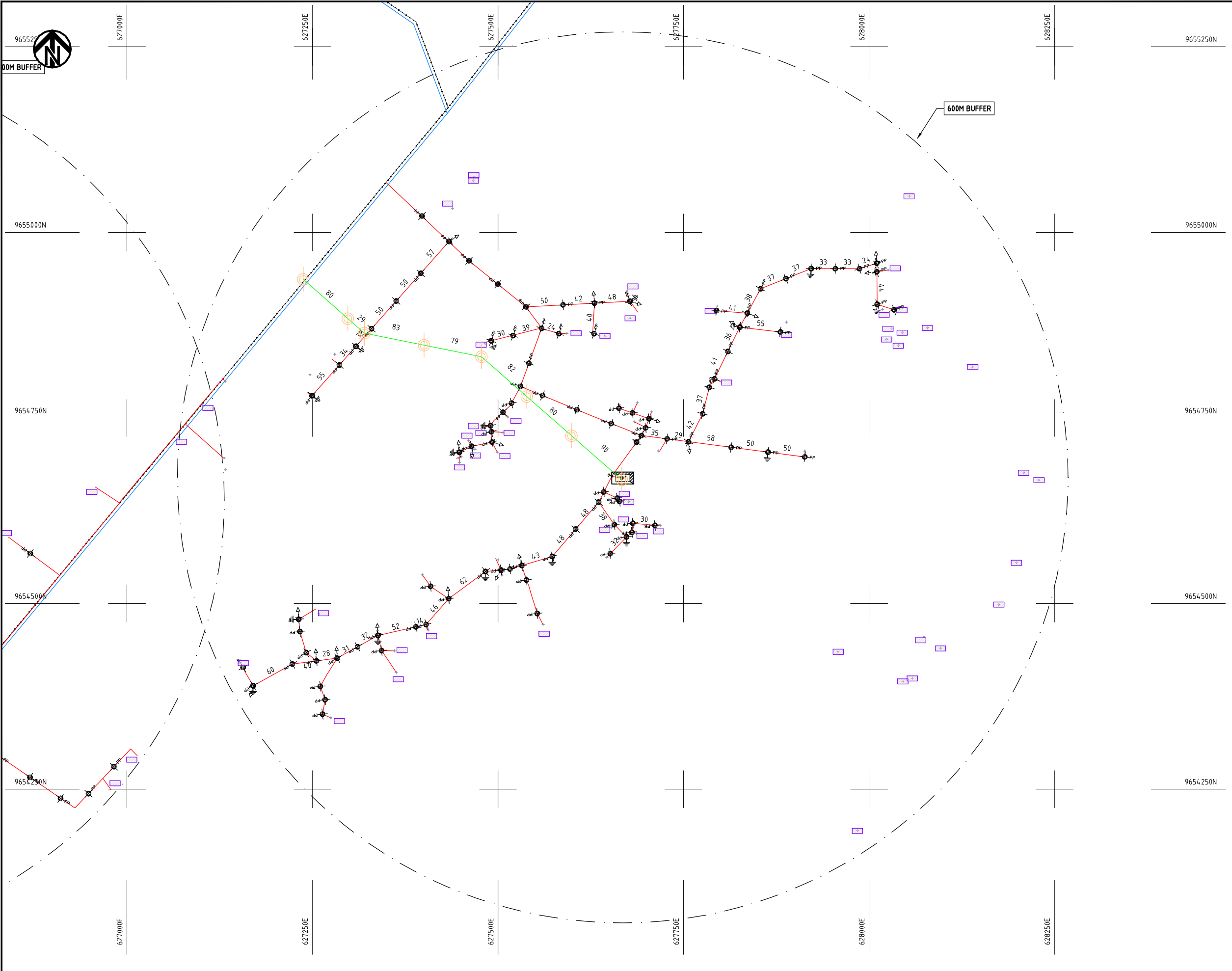


- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT:	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA		KLF-EX-9	CHECKED BY	S.MAETA
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: GANDA VURUNZI			APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





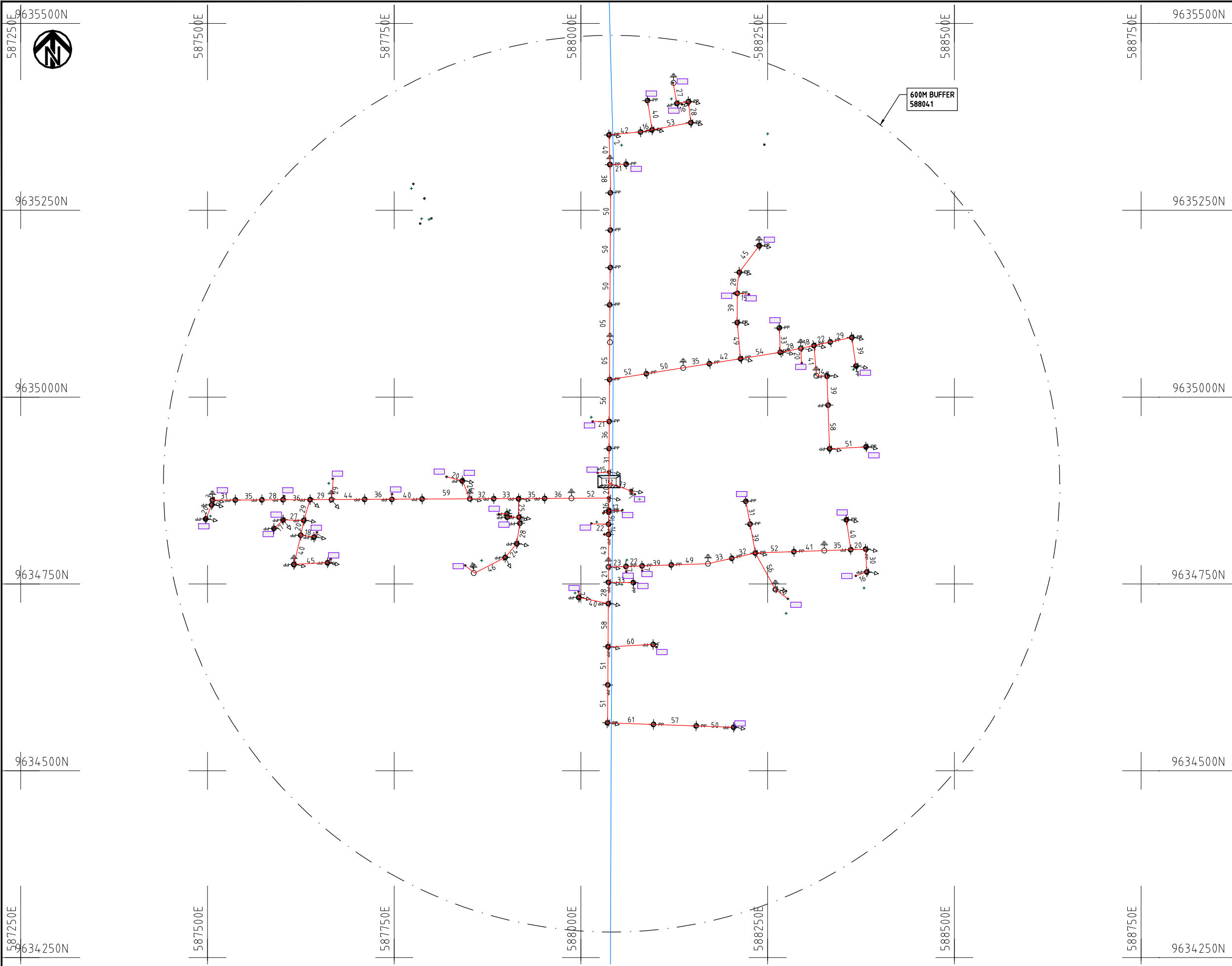
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-EX-10	CHECKED BY	S.MAETA
SCHEME: EXTENSION		APPROVED BY		Y.TANAKA	
PROJECT SITE: MAMBRUI		DATE		10th SEP 2018	





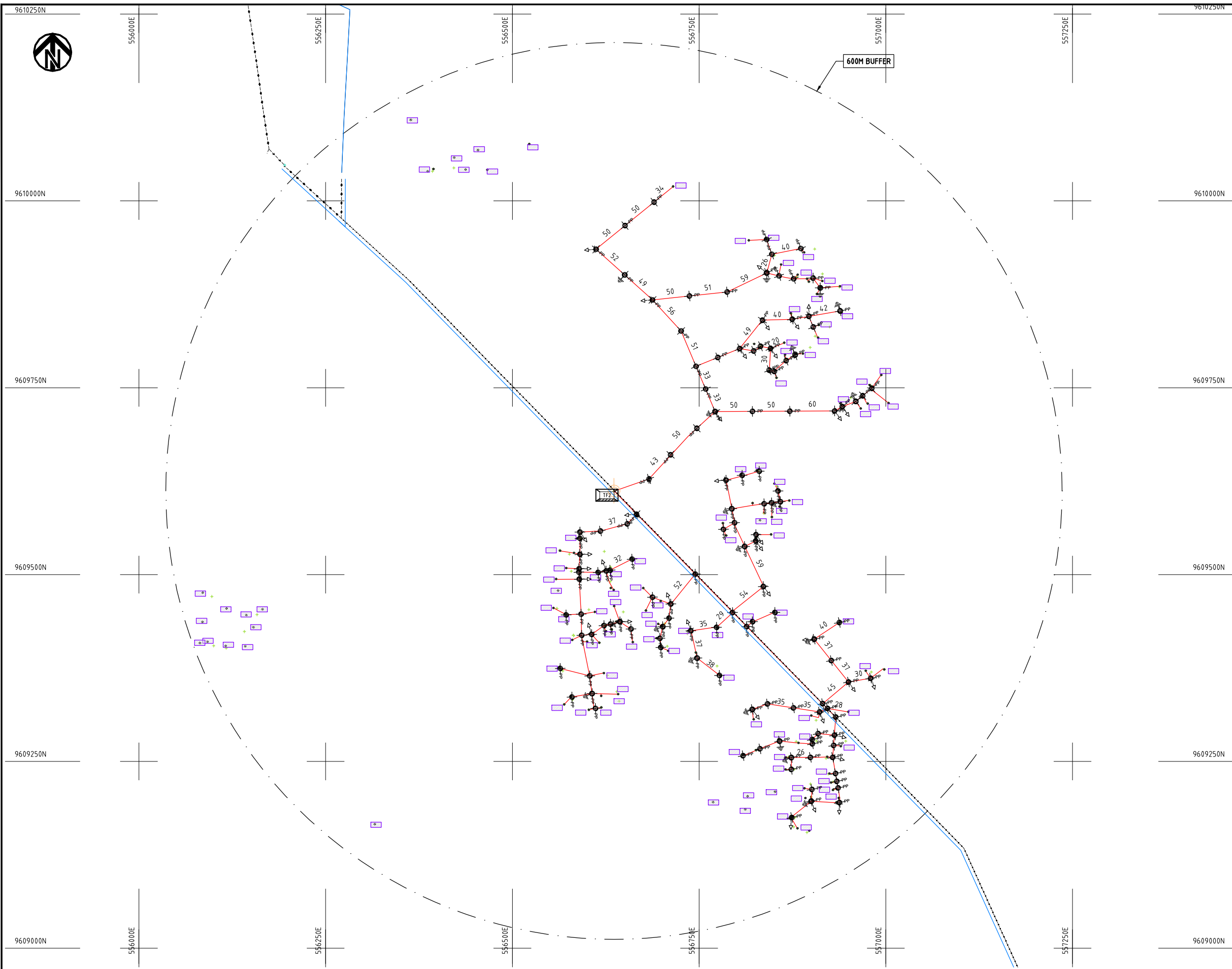
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-EX-11	CHECKED BY	S.MAETA
SCHEME: EXTENSION		APPROVED BY		Y.TANAKA	
PROJECT SITE: MITSUFINI VILLAGE		DATE		10th SEP 2018	





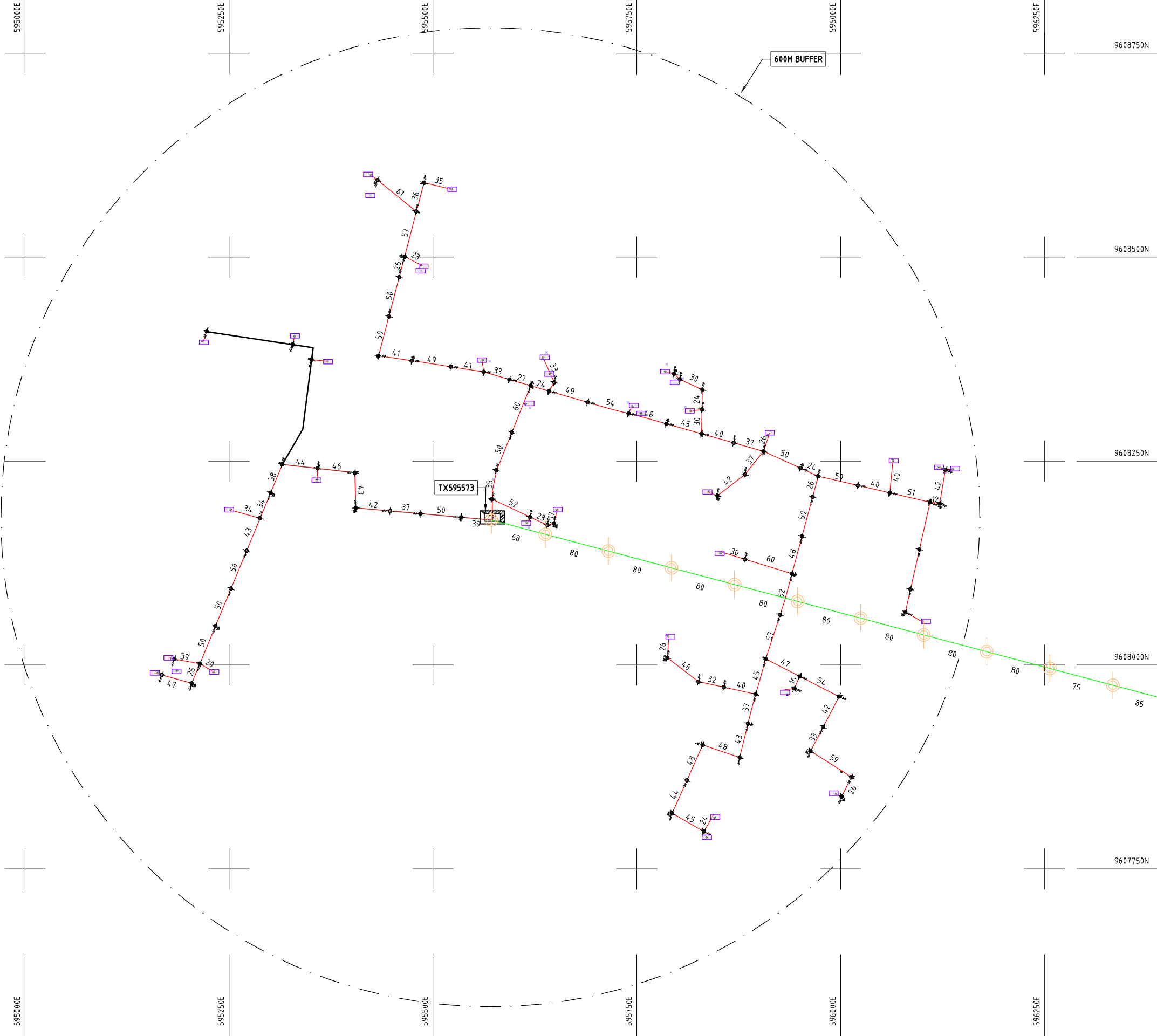
**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

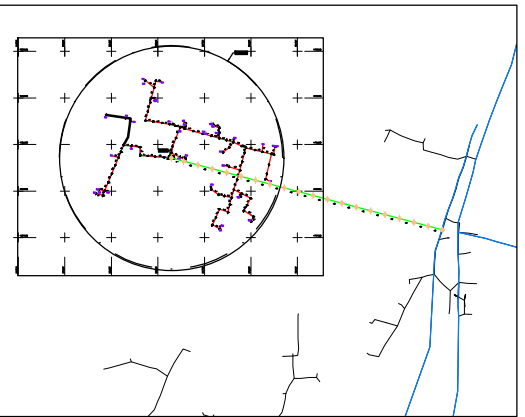
PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-EX-12	CHECKED BY	S.MAETA
	SCHEME: EXTENSION			APPROVED BY	Y.TANAKA
	PROJECT SITE: MWENZAMOYO BAMBA			DATE	10th SEP 2018





**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

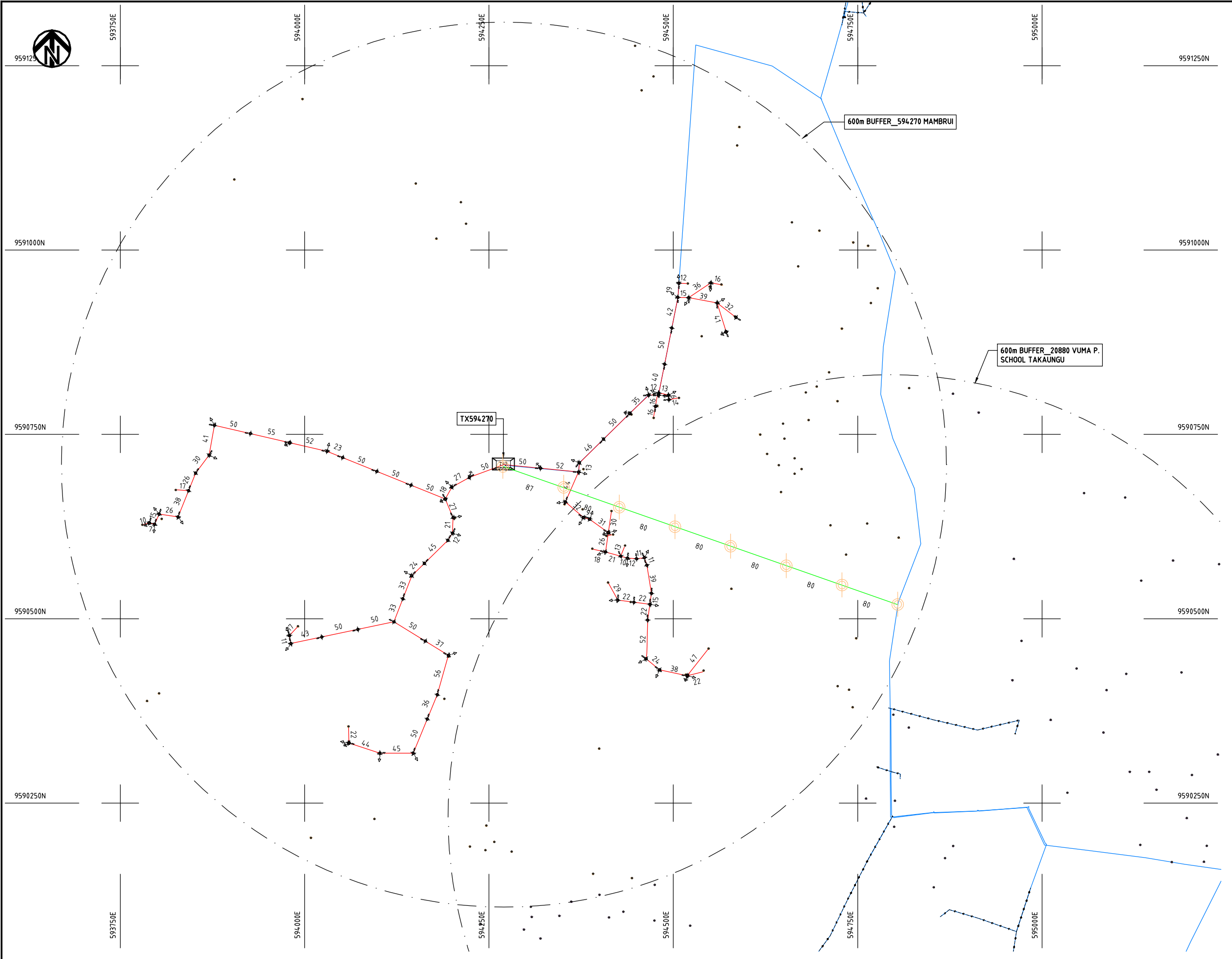


- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT:	THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA		DRAWING TITLE	DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI	SCHEME: MAXIMIZATION			CHECKED BY	S.MAETA
	PROJECT SITE: KITUONI TEZO			APPROVED BY	Y.TANAKA	
				DATE	10th SEP 2018	





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



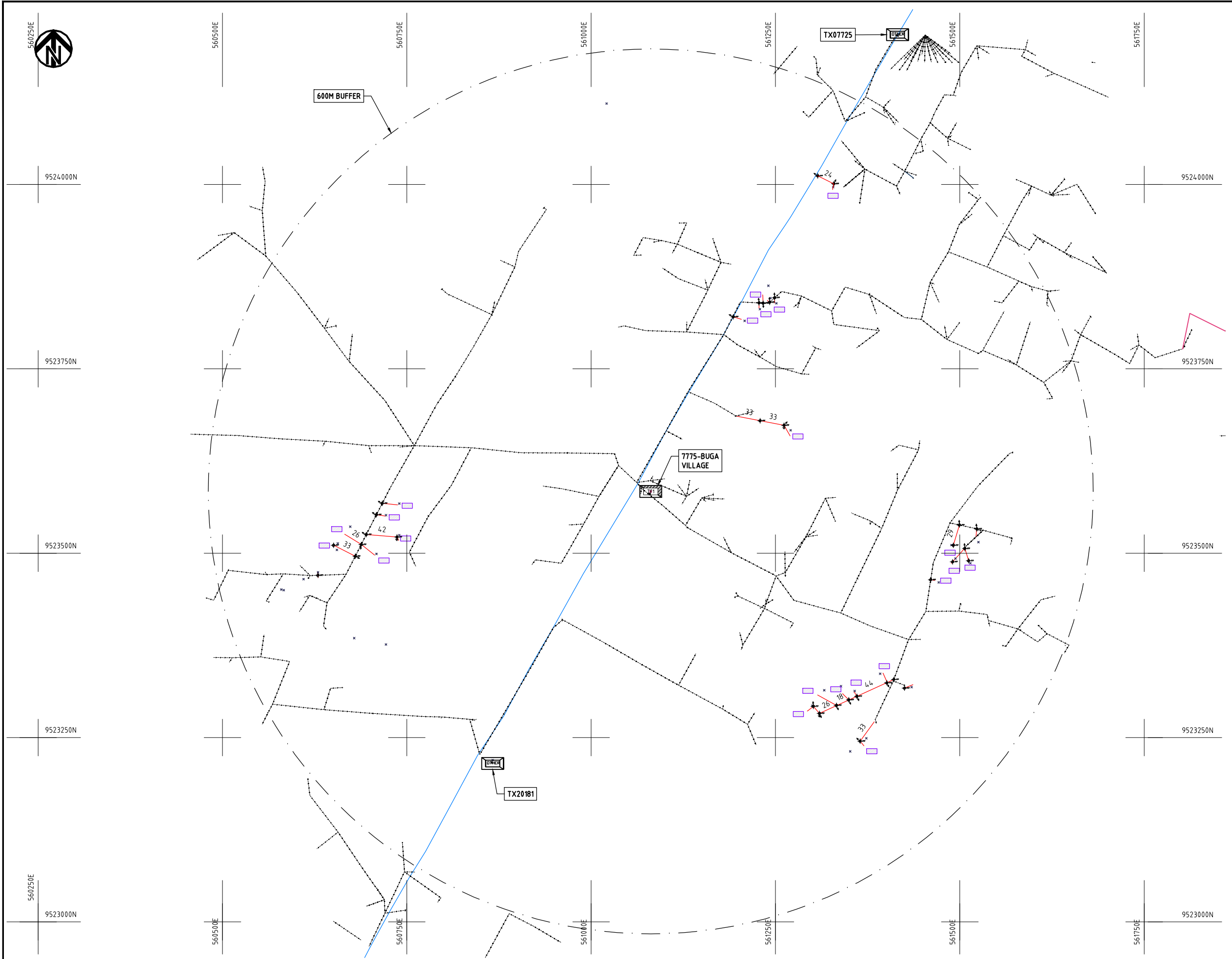
PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: TAKAUNGU VUMA -KAYANDA VILLAGE		KLF-EX-14	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018



***Kwale County***

***Maximization***





**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

	HOUSEHOLDS/ BUILDINGS
	PROPOSED 11kV
	Proposed 33kV
	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	WOODEN ELECTRIC POLES
	CONCRETE ELECTRIC POLES 12M
	CONCRETE ELECTRIC POLES 11M
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING STAY

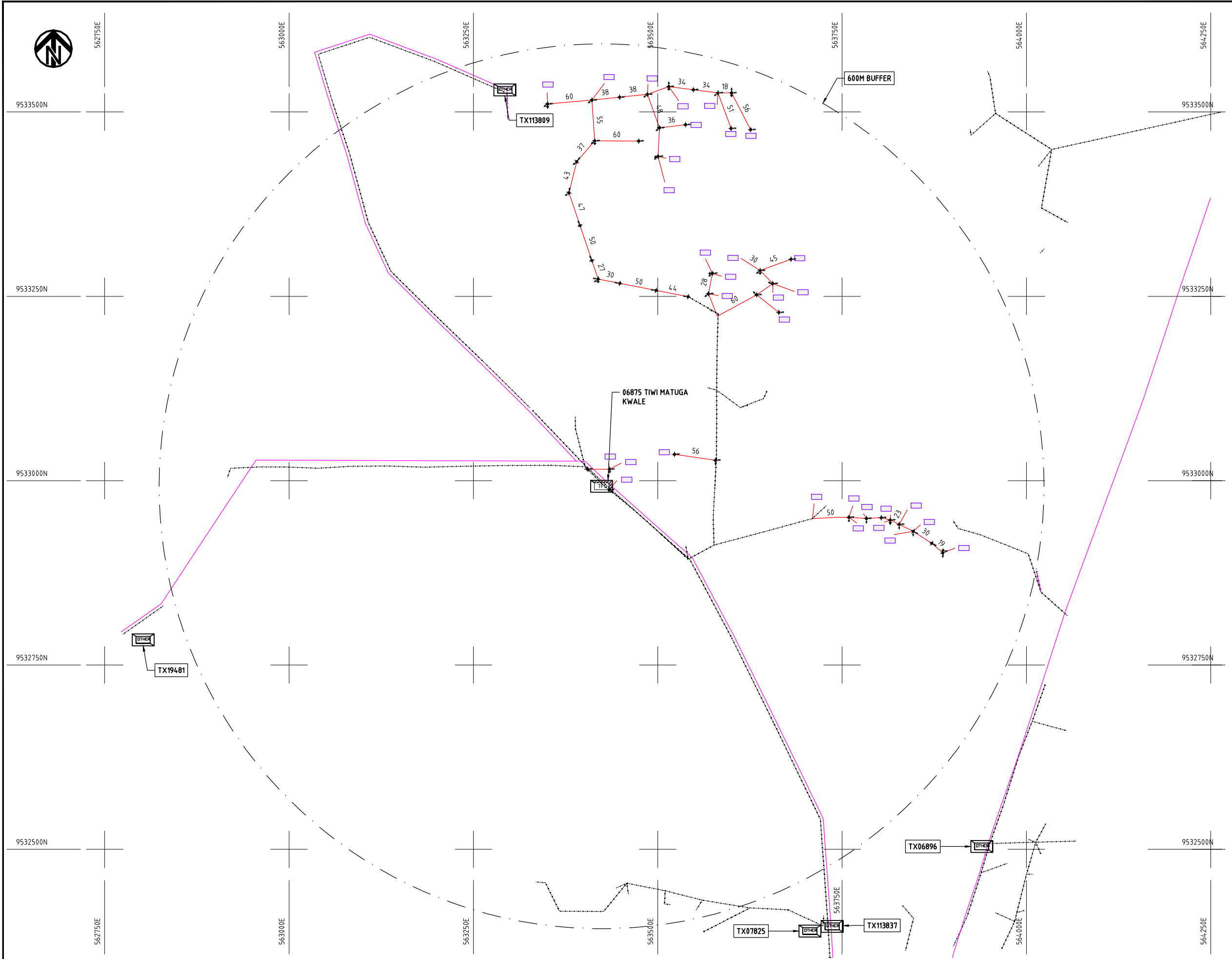


PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KWALE  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 7775 BUGA VILLAGE VUGA TSIMBA

DRAW. NO. KWL-MA-1  
 PREPARED BY A.AKBAR  
 CHECKED BY S.MAETA  
 APPROVED BY Y.TANAKA  
 DATE 10th SEP 2018

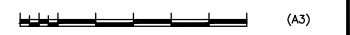
NIPPON KOEI CO., LTD



**NOTES:**

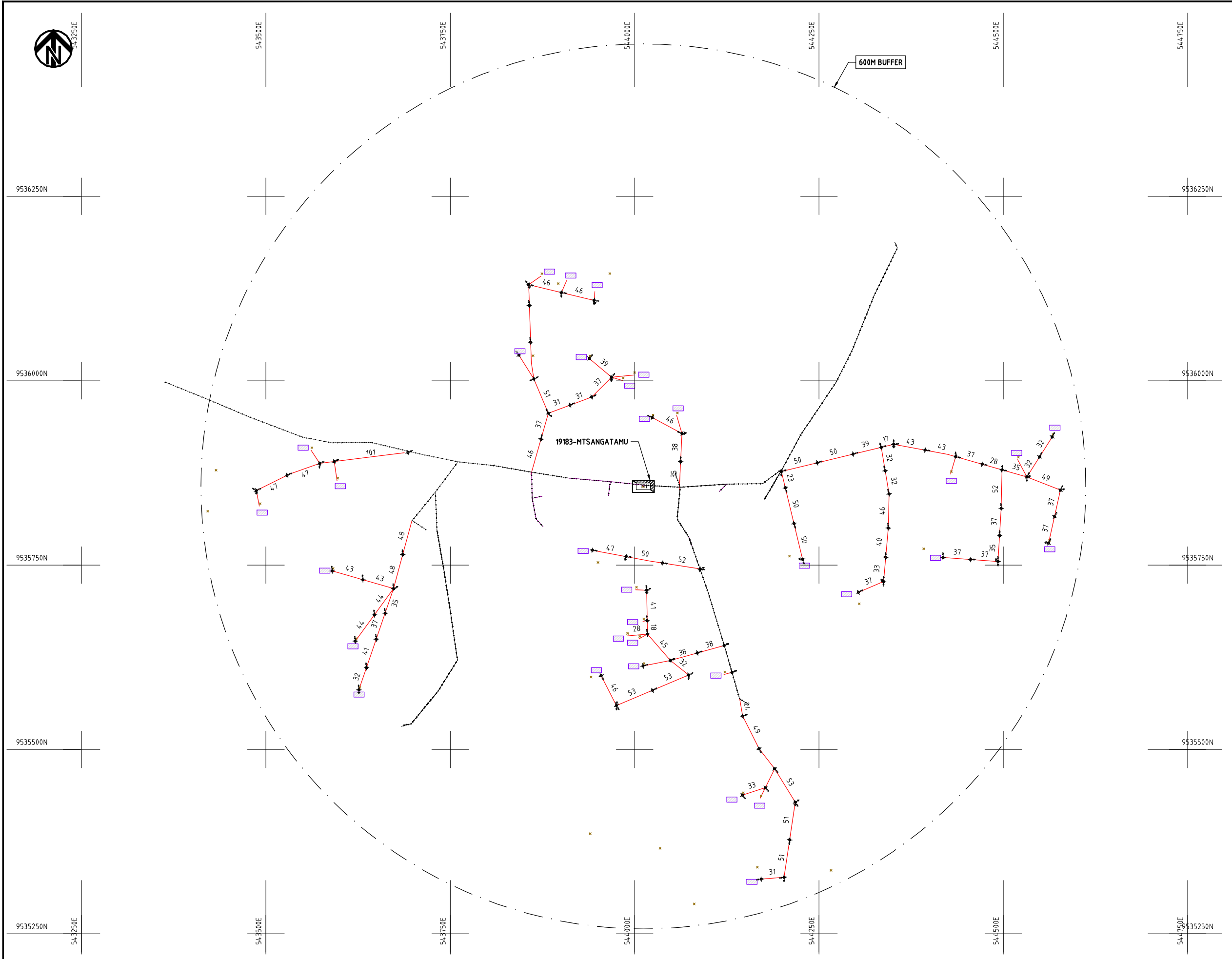
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT:	<p align="center"><b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b></p>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: KWALE	Scheme: MAXIMIZATION	KWL-MA-2	CHECKED BY	S.MAETA
		PROJECT SITE: 06875 TIWI MATUGA KWALE			APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018





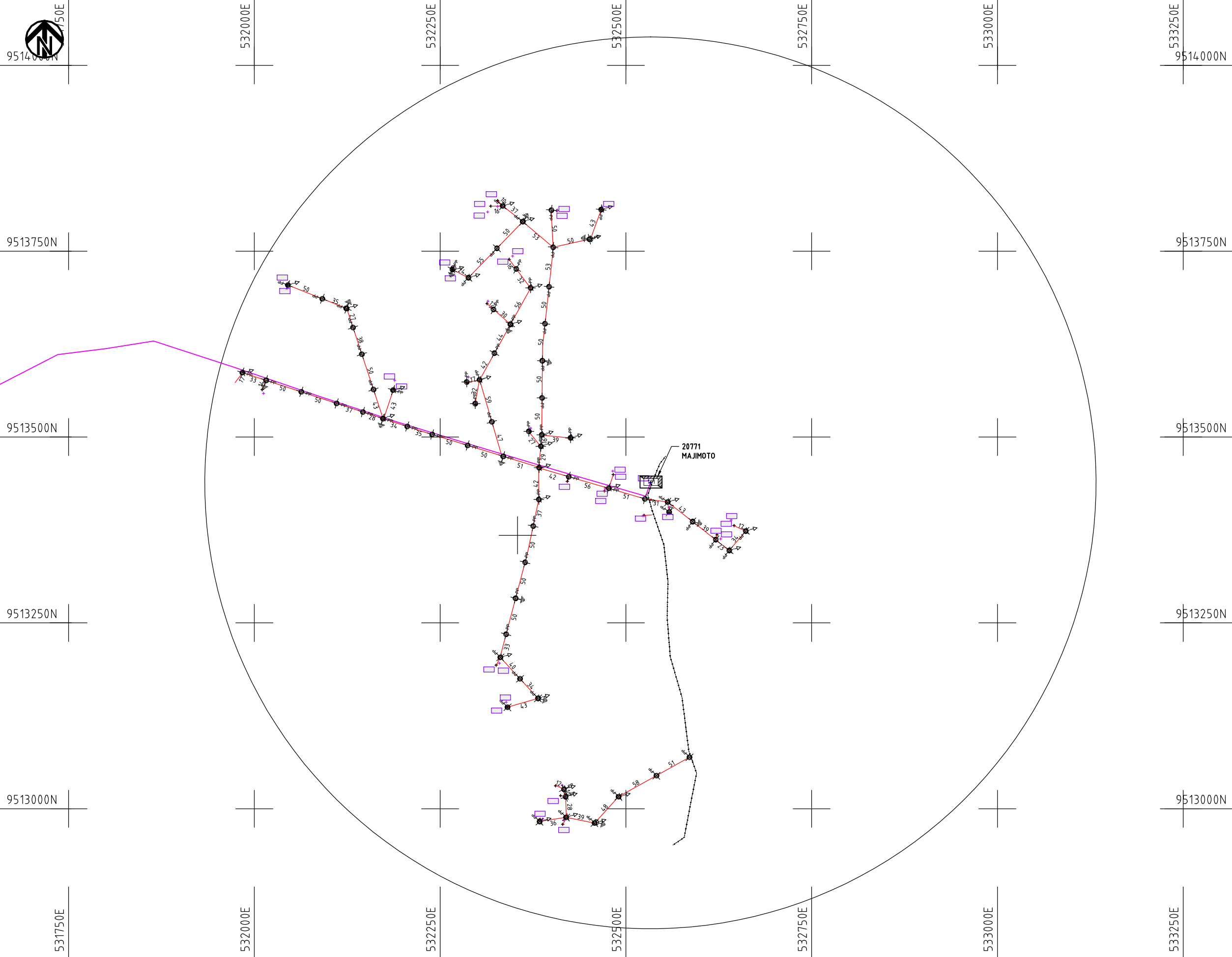
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE		KWL-MA-4	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 19183 MTSANGATAMU			DATE	10th SEP 2018





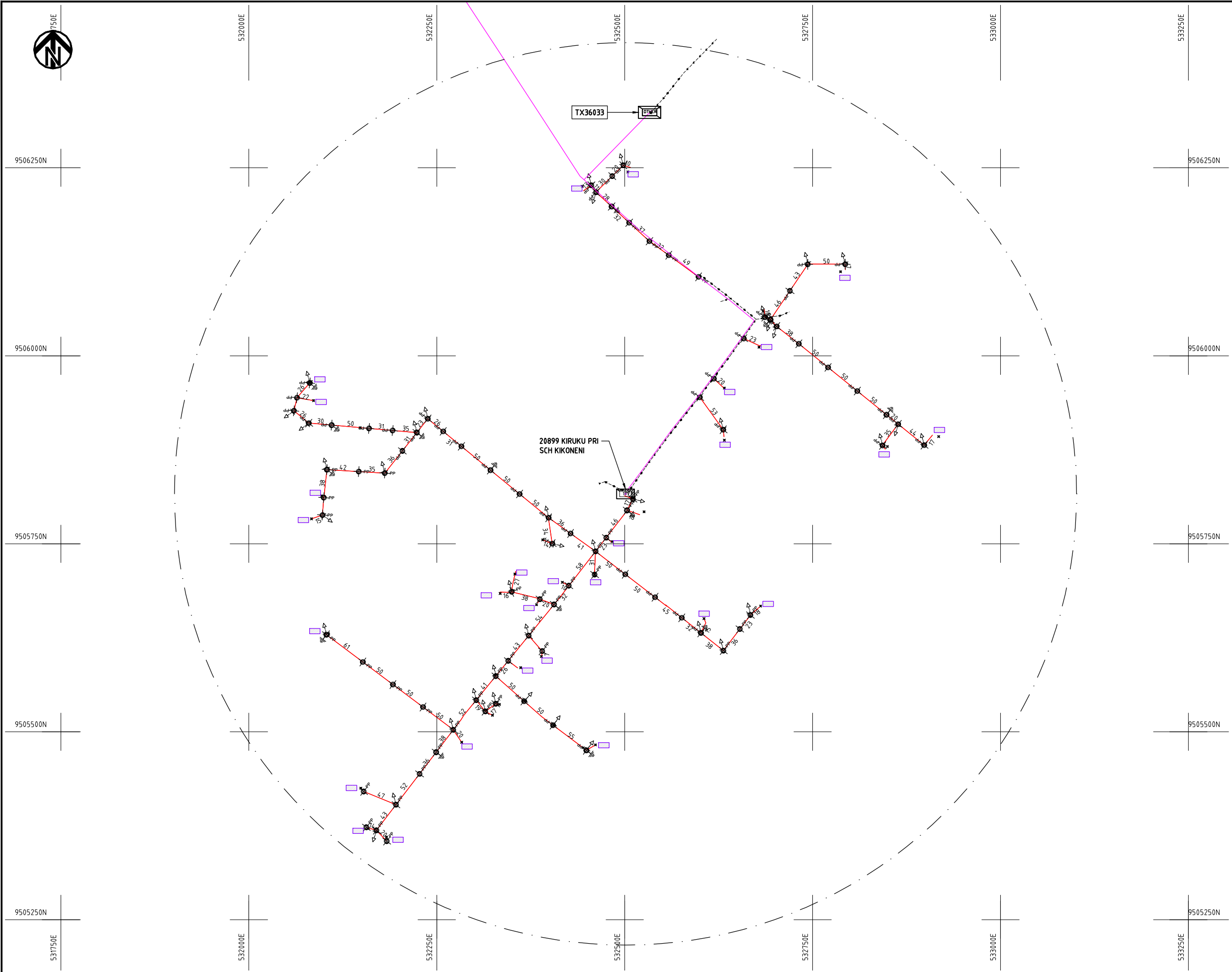
**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

	HOUSEHOLDS/ BUILDINGS
	PROPOSED 11kV
	Proposed 33kV
	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	WOODEN ELECTRIC POLES
	CP CONCRETE ELECTRIC POLES 12M
	CP CONCRETE ELECTRIC POLES 11M
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	<b>DRAWING TITLE</b>  COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 20771 MAJIMOTO	DRAW. NO. KLF-MA-5	PREPARED BY A.AKBAR  CHECKED BY S.MAETA  APPROVED BY Y.TANAKA  DATE 10th SEP 2018	<b>NIPPON KOEI CO., LTD</b>
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**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

	HOUSEHOLDS/ BUILDINGS
	PROPOSED 11kV
	Proposed 33kV
	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	WOODEN ELECTRIC POLES
	CONCRETE ELECTRIC POLES 12M
	CONCRETE ELECTRIC POLES 11M
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT:	<b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE	DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 20899-KIRUKU PRY SCH KIKONENI	KLF-MA-6	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





502750E

503000E

503250E

503500E

503750E

504000E

504250E

9522500N

9522250N

9522000N

9521750N

9521500N

502750E

503000E

503250E

503500E

503750E

504000E

504250E

600M BUFFER

104153-KALALANI

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

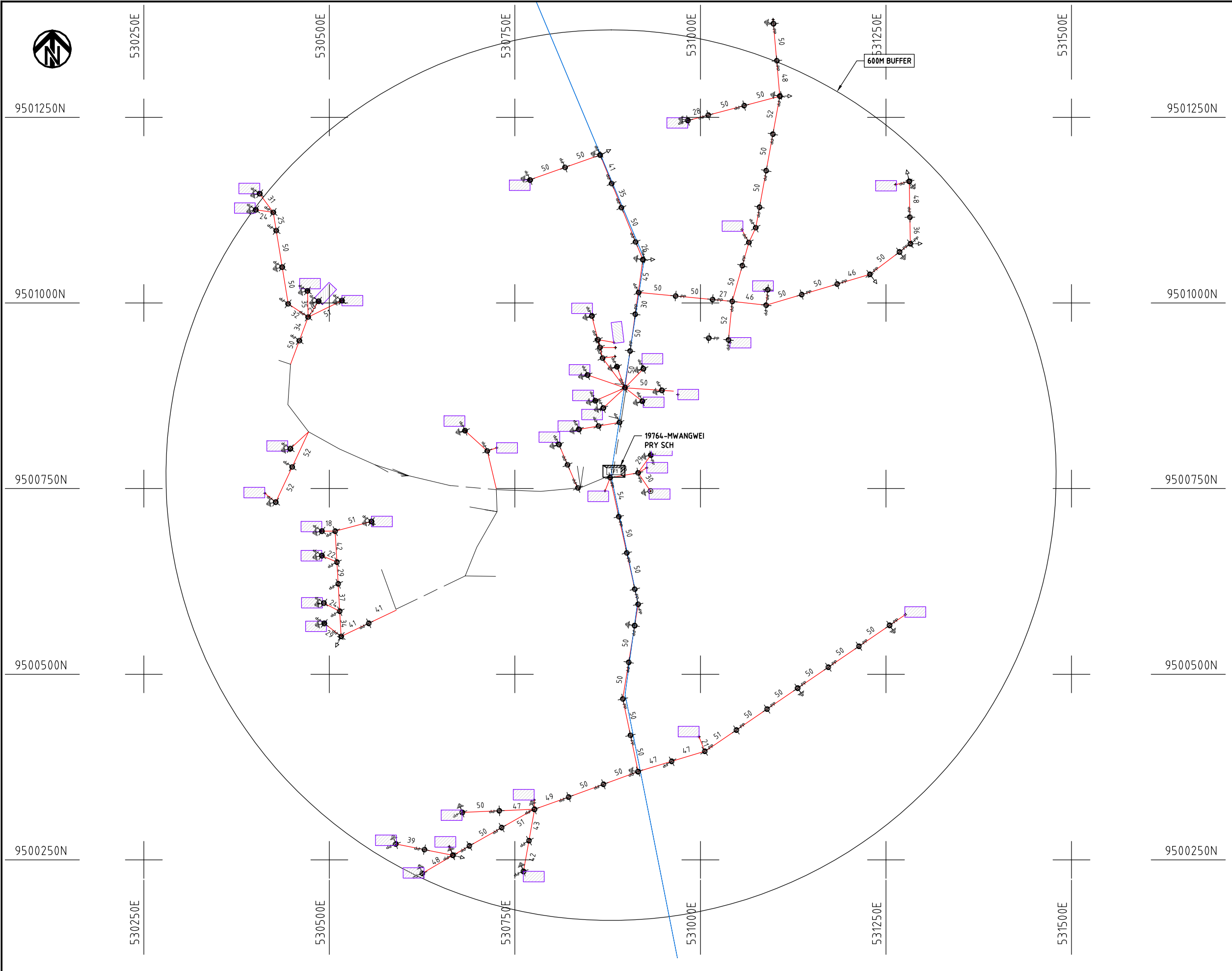
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PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KWALE  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 104153-KALALANI

DRAW. NO.	PREPARED BY	A.AKBAR
KWL-MA-8	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

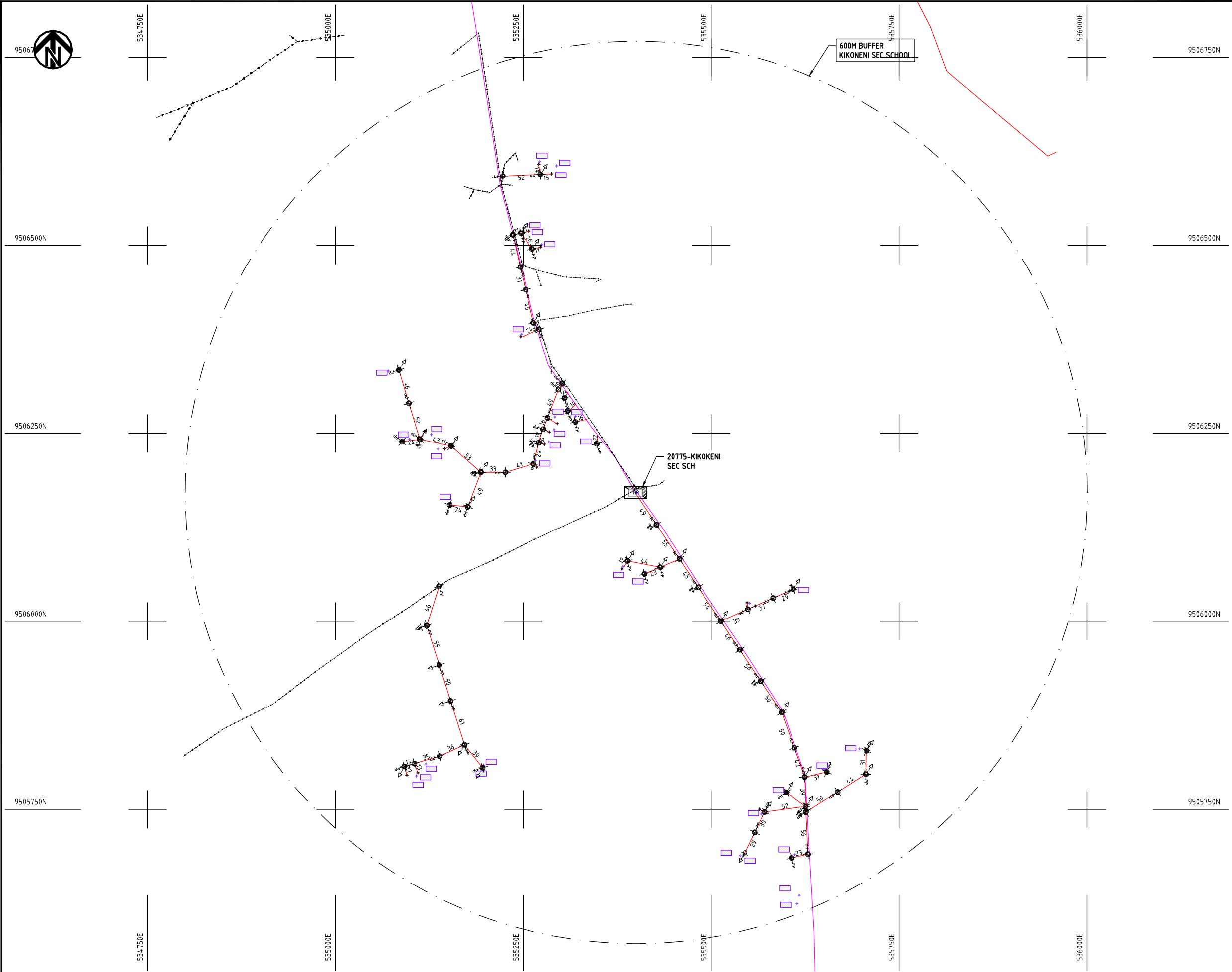
	HOUSEHOLDS/ BUILDINGS
	PROPOSED 11kV
	Proposed 33kV
	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	WOODEN ELECTRIC POLES
	CONCRETE ELECTRIC POLES 12M
	CONCRETE ELECTRIC POLES 11M
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE		KWL-MA-9	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 19764 - MWANGWEI PRY SCH			DATE	10th SEP 2018	







- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- LV-EARTH STAY

Scale bar and (A3) label.

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE		KLF-MA-010	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 20775 KIKONENI SEC SCH		DATE		10th SEP 2018	





9496250N

518750E

519000E

519250E

519500E

519750E

520000E

9496250N

9496000N

9496000N

9495750N

9495750N

9495500N

9495500N

9495250N

9495250N

518750E

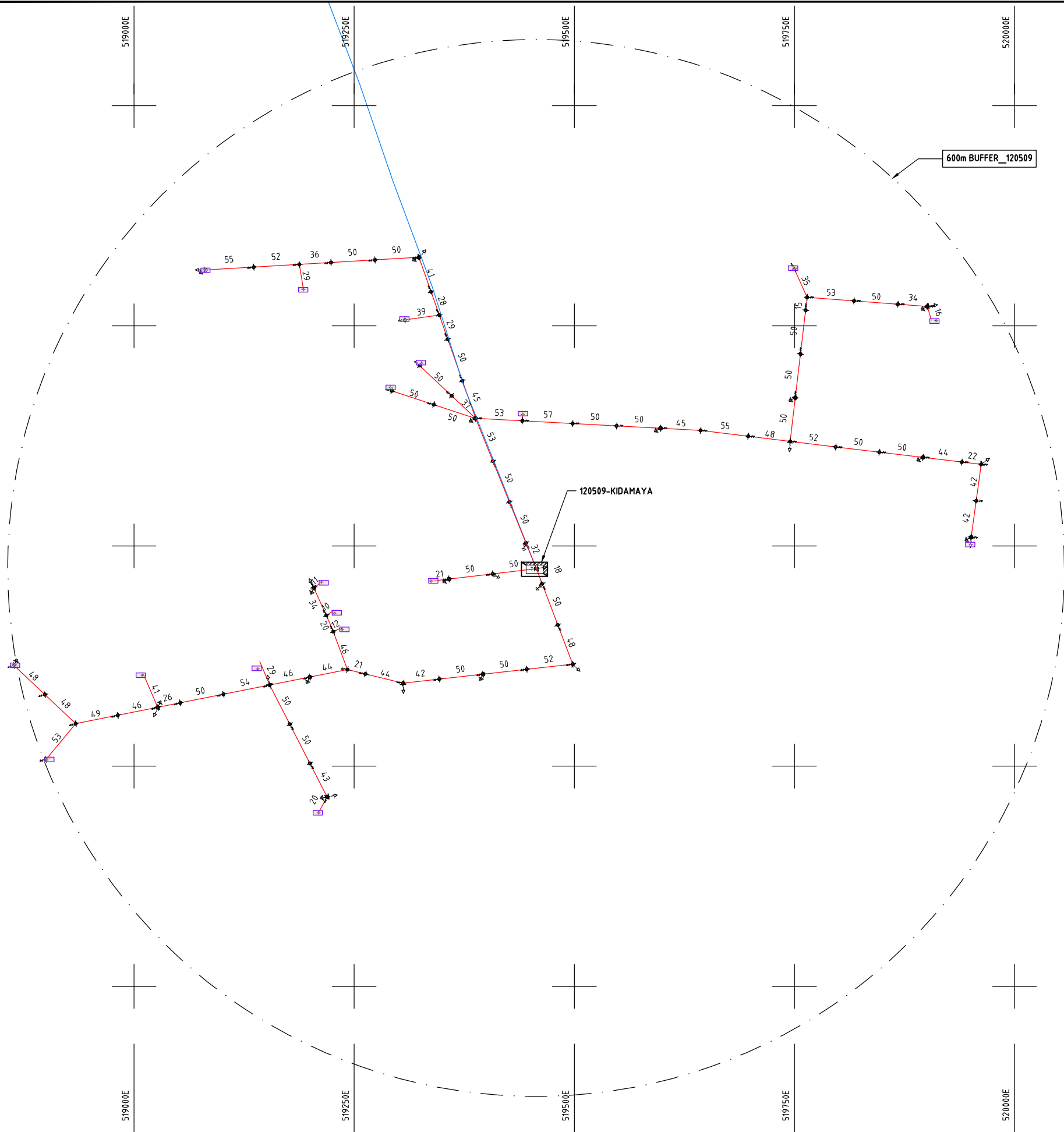
519000E

519250E

519500E

519750E

520000E



**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

	HOUSEHOLDS/ BUILDINGS
	PROPOSED 11kV
	Proposed 33kV
	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	WOODEN ELECTRIC POLES
	CP CONCRETE ELECTRIC POLES 12M
	CP CONCRETE ELECTRIC POLES 11M
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING STAY

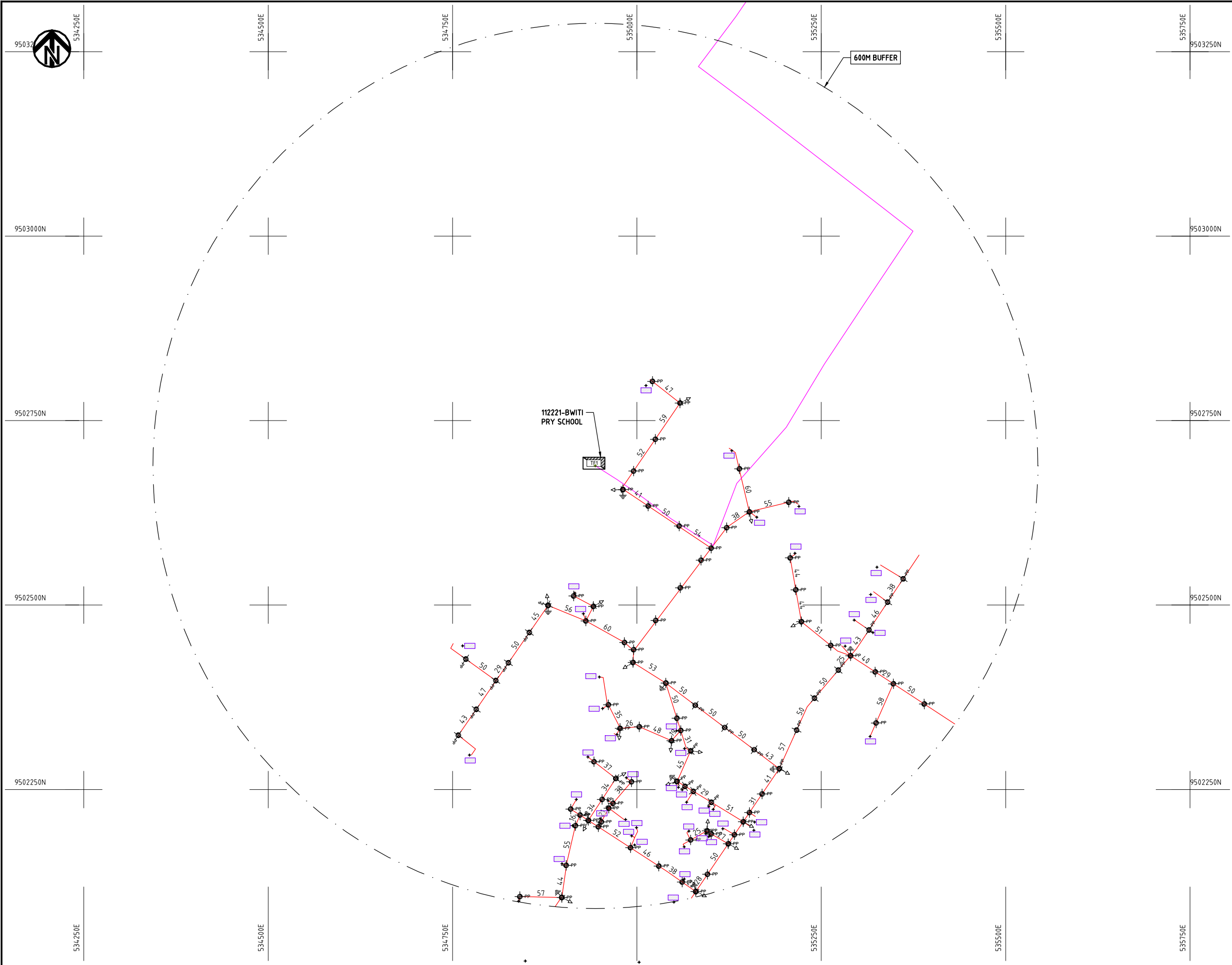


PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KWALE  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 120509 KIDAMAYA

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-12	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





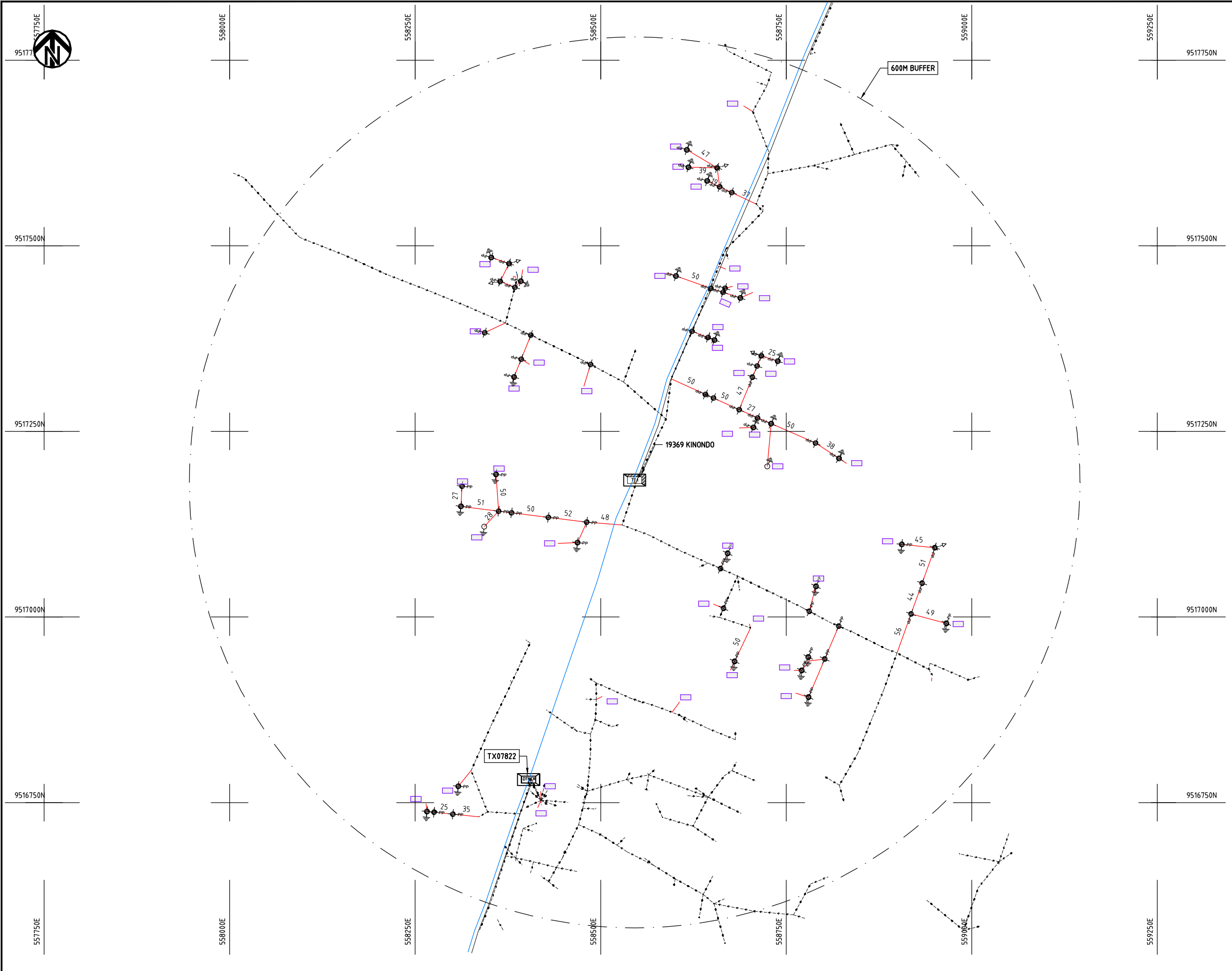
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT:	THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: KWALE	PROJECT SITE: 112221-BWITI PRY SCHOOL		KLF-MA-13	CHECKED BY
		SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018





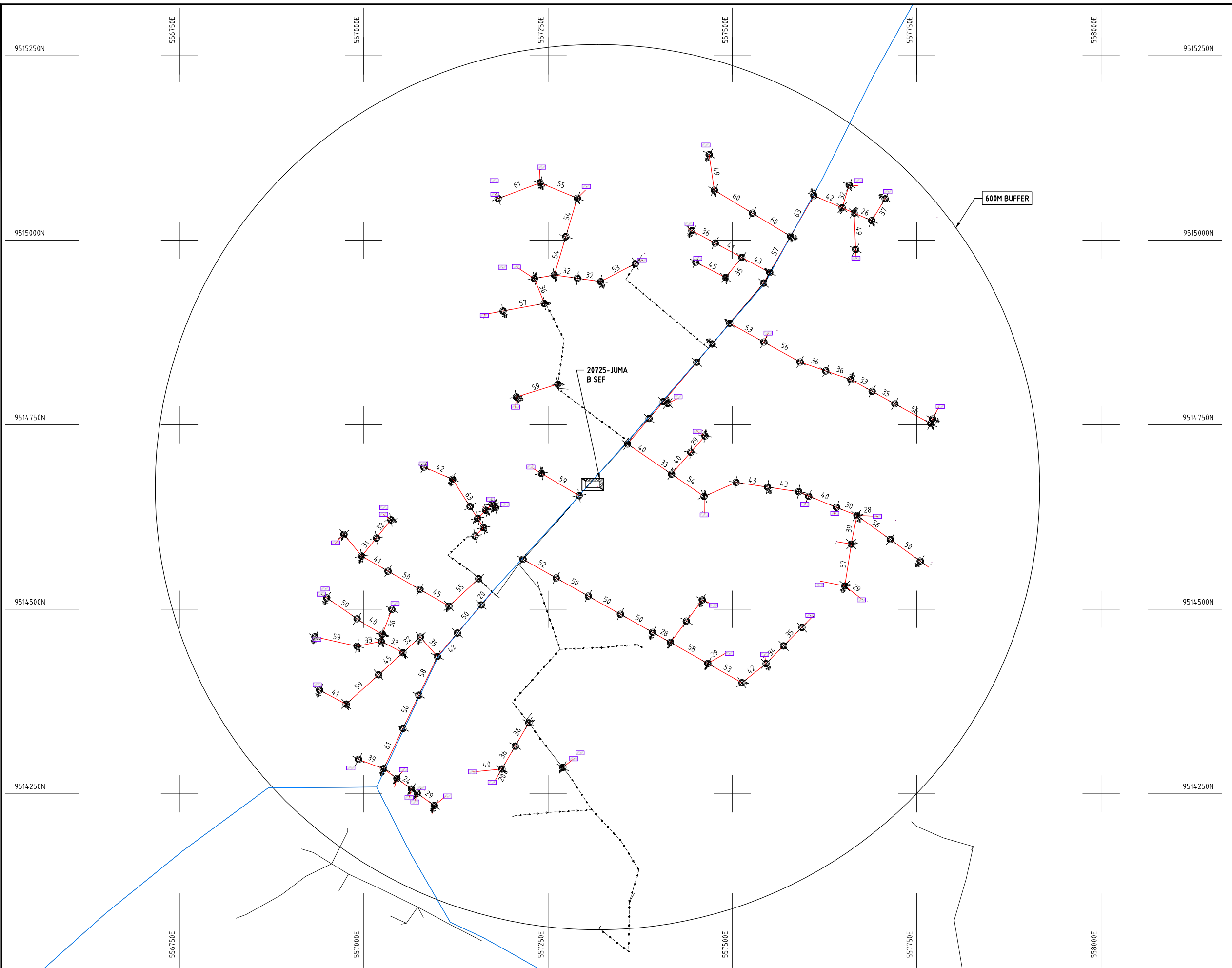
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.













- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

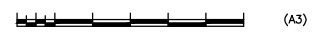


PROJECT:	<p>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</p>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: KWALE	Scheme: MAXIMIZATION	KWL-MA-15	CHECKED BY	S.MAETA
		PROJECT SITE: 19369 - KINONDO			APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018





-  HOUSEHOLDS/ BUILDINGS
-  PROPOSED DISTRIBUTION LINE
-  EXISTING 11kV LINE
-  EXISTING 33kV LINE
-  EXISTING DISTRIBUTION LINE
-  MAXIMISATION TRANSFORMER
-  EXTENSION TRANSFORMER
-  OTHER EXISTING TRANSFORMER
-  WOODEN ELECTRIC POLES
-  CONCRETE ELECTRIC POLES
-  LV-EARTH
-  PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT:	<b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	<b>DRAWING TITLE</b>  COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 20725 JUMA B SEF	DRAW. NO.	PREPARED BY	A.AKBAR
			KWL-MA-16	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





545250E

545500E

545750E

546000E

546250E

546500E

546750E

9507250N

9507250N

9507000N

9507000N

9506750N

9506750N

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545250E

545500E

545750E

546000E

546250E

546500E













546750E

600M BUFFER

107366-KIZUMBZAN

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

-  HOUSEHOLDS/ BUILDINGS
-  PROPOSED DISTRIBUTION LINE
-  EXISTING 11kV LINE
-  EXISTING 33kV LINE
-  EXISTING DISTRIBUTION LINE
-  MAXIMISATION TRANSFORMER
-  EXTENSION TRANSFORMER
-  OTHER EXISTING TRANSFORMER
-  WOODEN ELECTRIC POLES
-  CONCRETE ELECTRIC POLES
-  LV-EARTH
-  PME -PROTECTIVE MULTIPLE EARTHING STAY

(A3)

PROJECT:

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: KWALE  
SCHEME: MAXIMIZATION  
PROJECT SITE: 107366 KIZUMBZAN

DRAW. NO.

KLF-MA-17

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

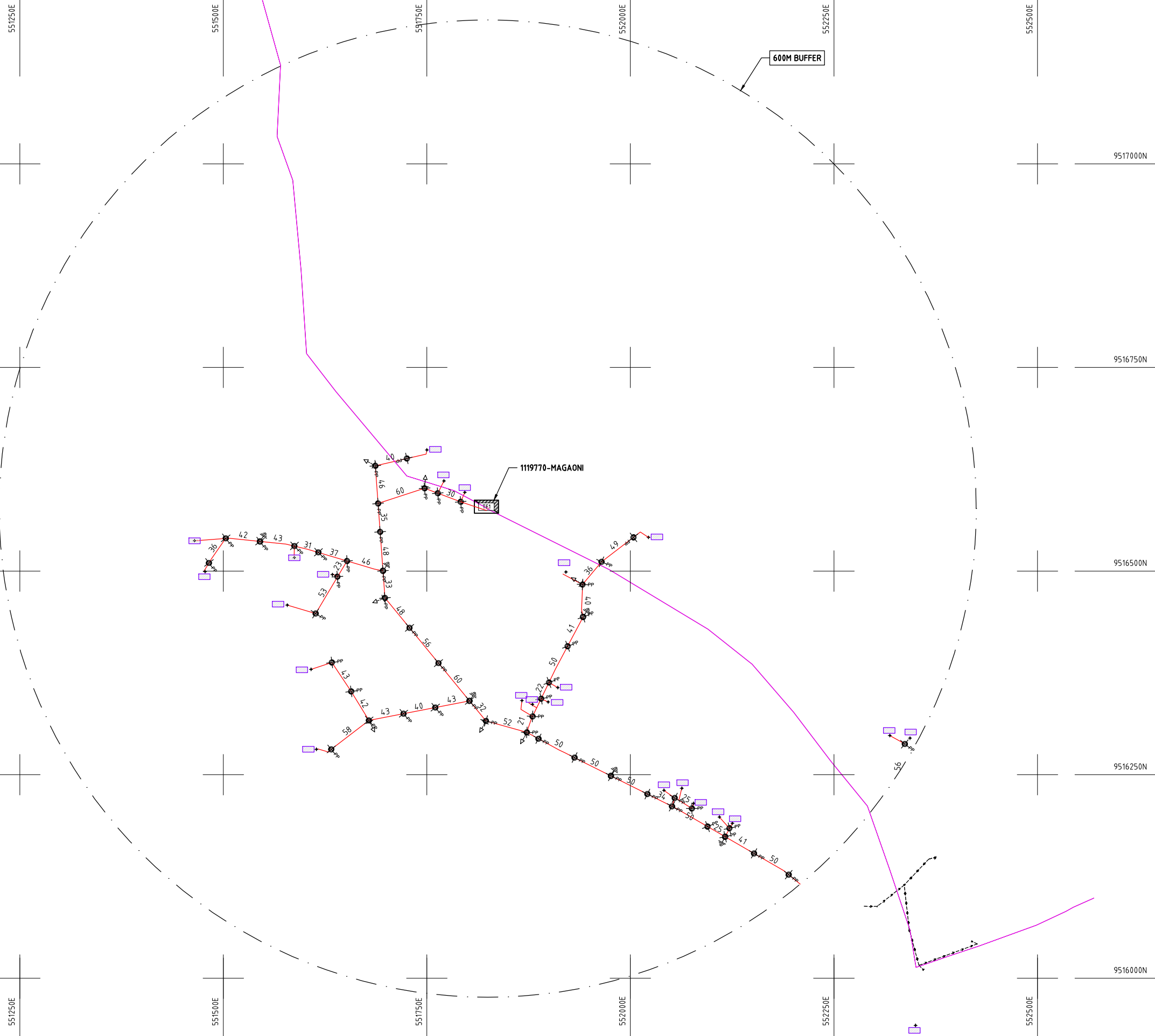
APPROVED BY

Y.TANAKA

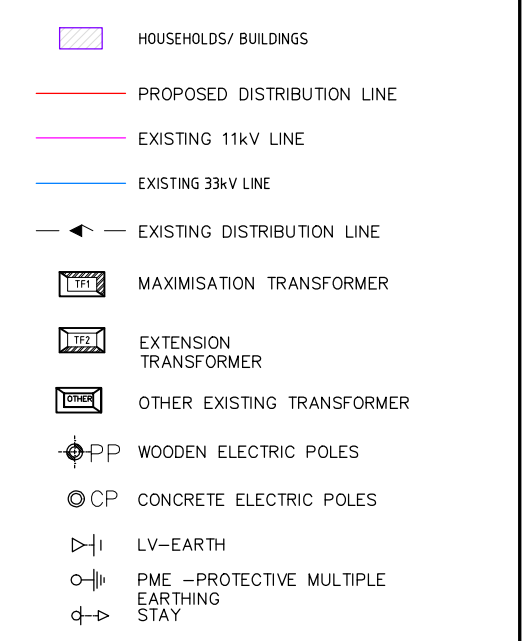
DATE

10th SEP 2018

 NIPPON KOEI CO., LTD



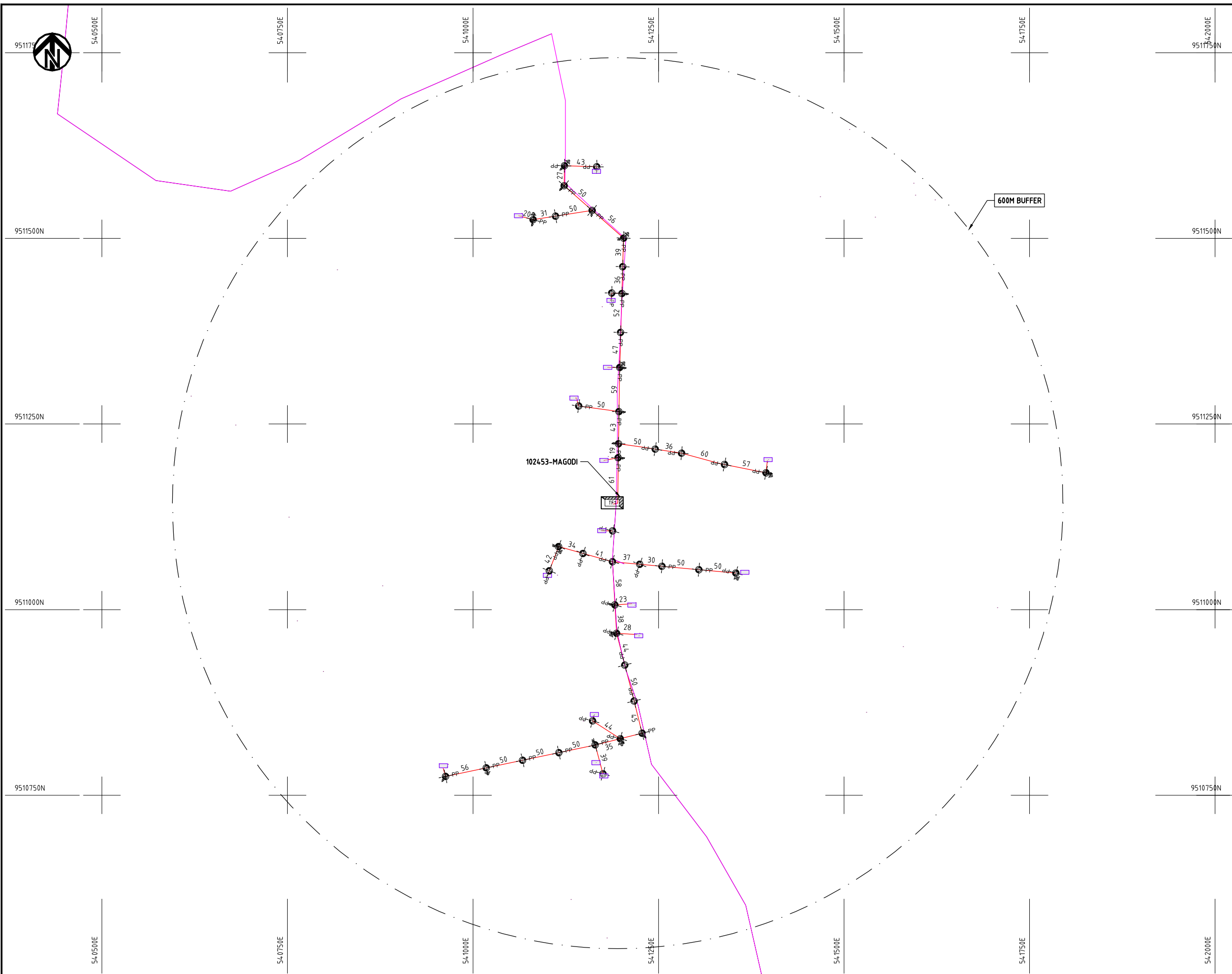
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.



PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 119770 MAGAONI		KLF-MA-18	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018







**NOTES:**

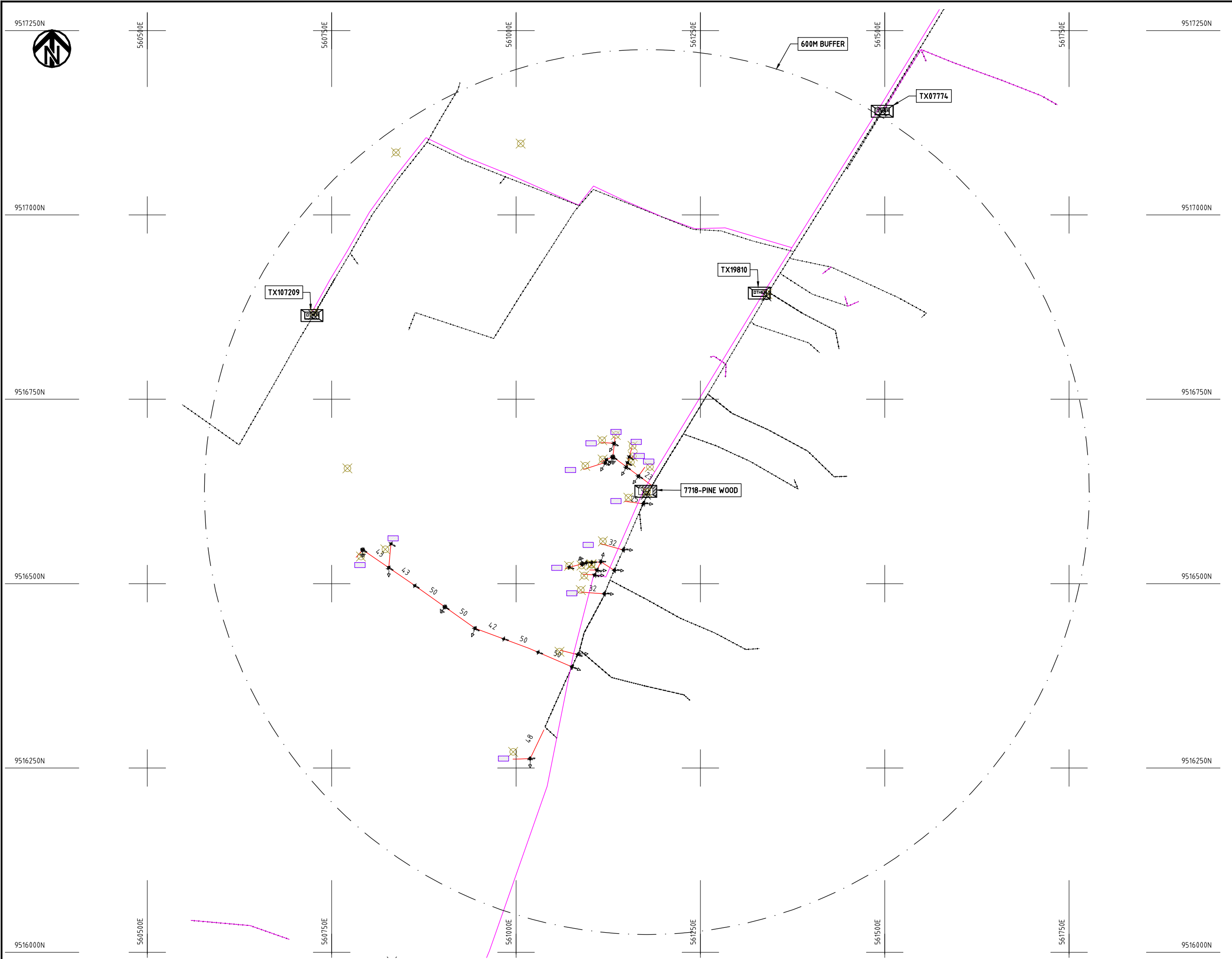
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

(A3)

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 102453 MAGODI		KWL-MA-19	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





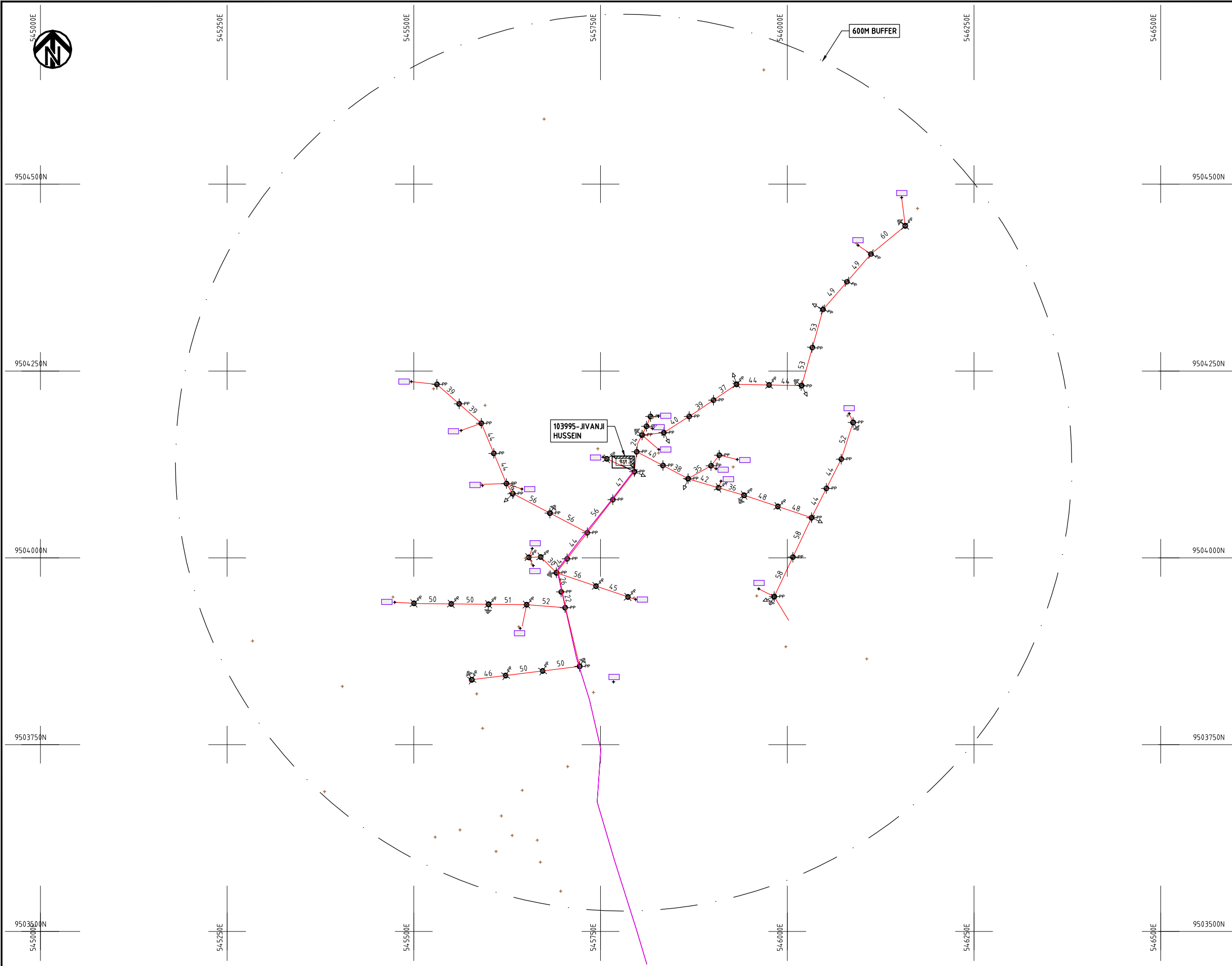
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 07718 PINWOOD		KWL-MA-20	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





**NOTES:**

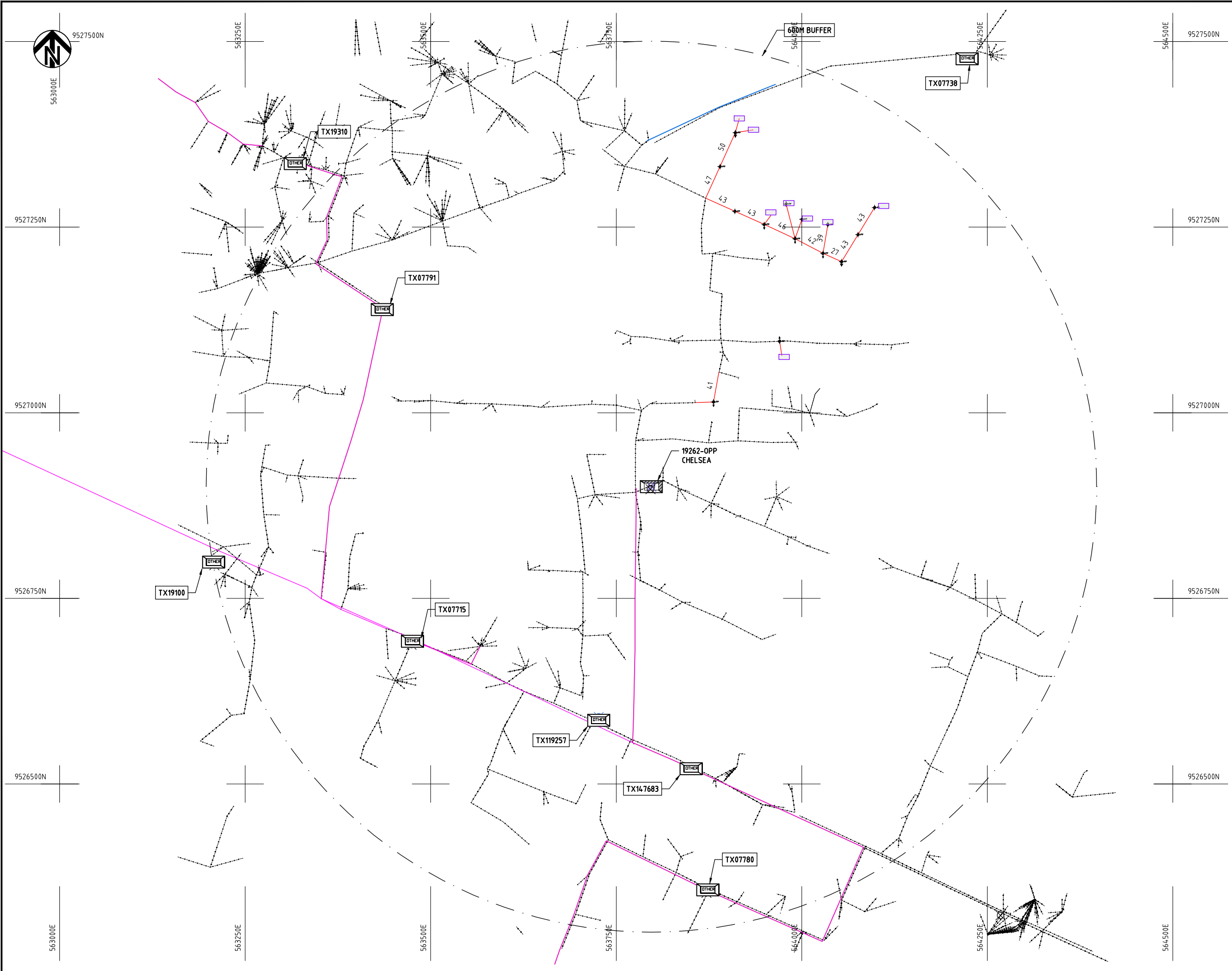
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2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 103995-JIVANJI HUSSEIN		KWL-MA-21	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





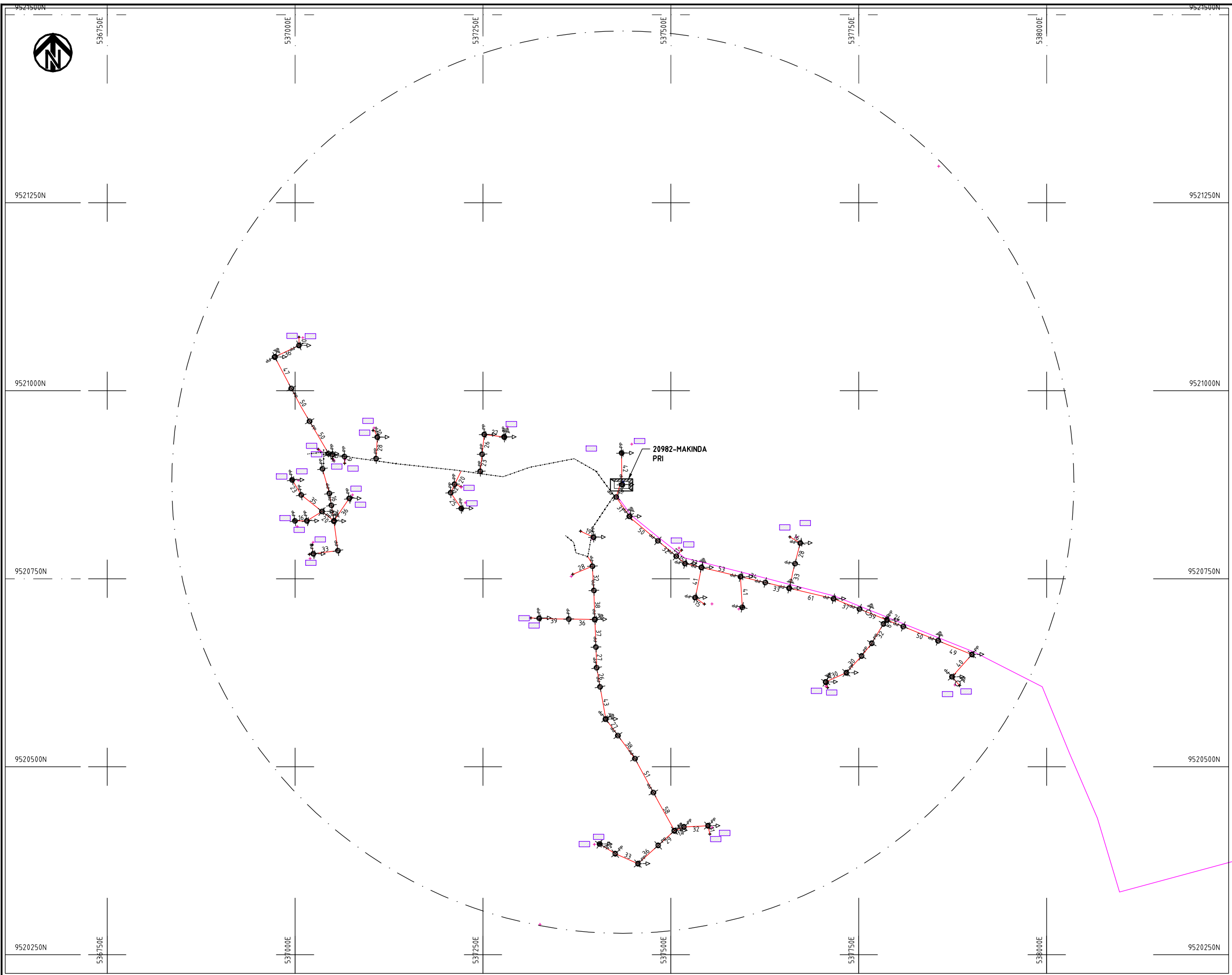
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 19262 OPP. CHELSEA		KWL-MA-22	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018















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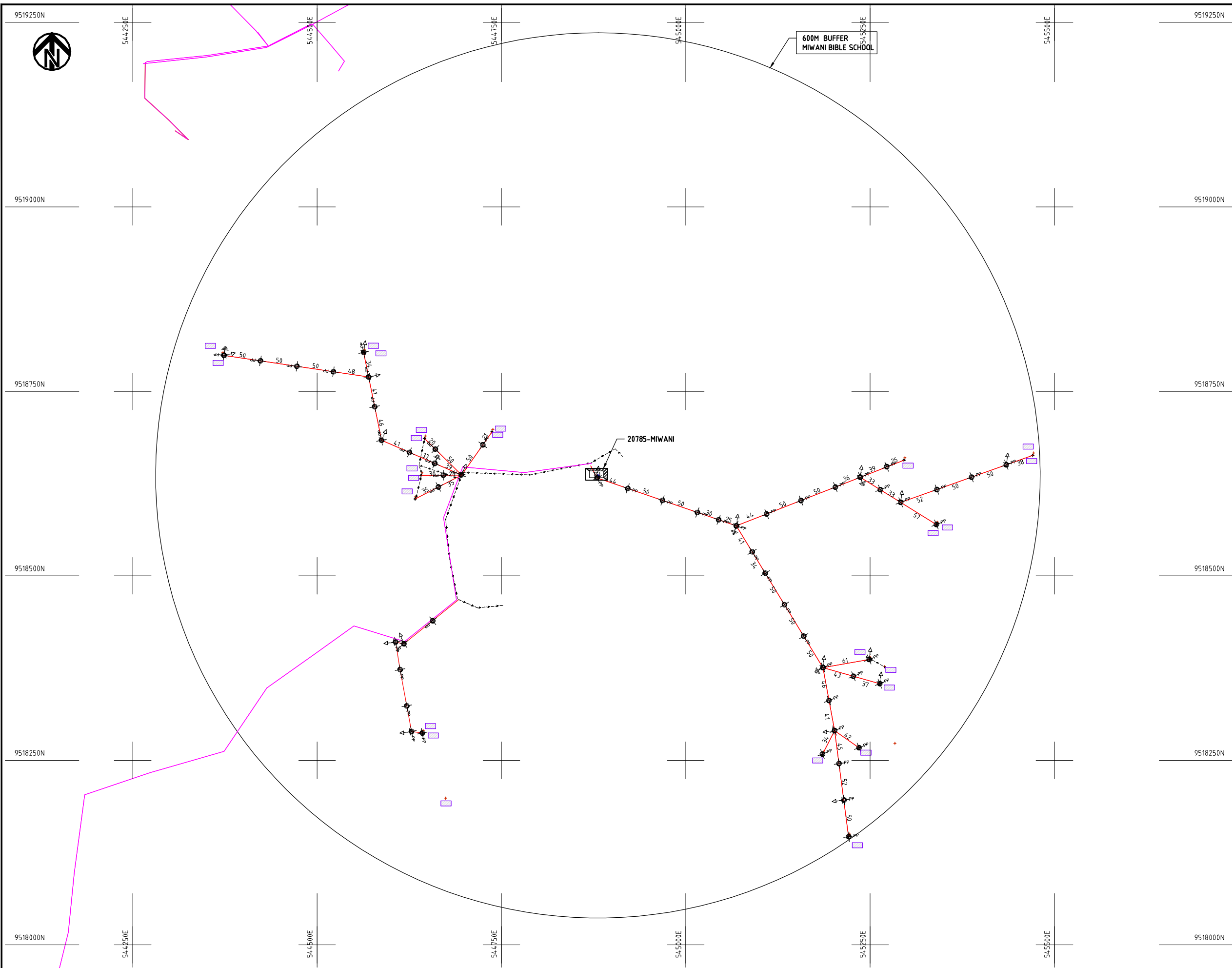
**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

-  HOUSEHOLDS/ BUILDINGS
-  PROPOSED DISTRIBUTION LINE
-  EXISTING 11kV LINE
-  EXISTING 33kV LINE
-  EXISTING DISTRIBUTION LINE
-  MAXIMISATION TRANSFORMER
-  EXTENSION TRANSFORMER
-  OTHER EXISTING TRANSFORMER
-  WOODEN ELECTRIC POLES
-  CONCRETE ELECTRIC POLES
-  LV-EARTH
-  PME -PROTECTIVE MULTIPLE EARTHING STAY

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI		KLF-MA-23	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 20982-MKANDA PRIMARY		DATE		10th SEP 2018	





**NOTES:**

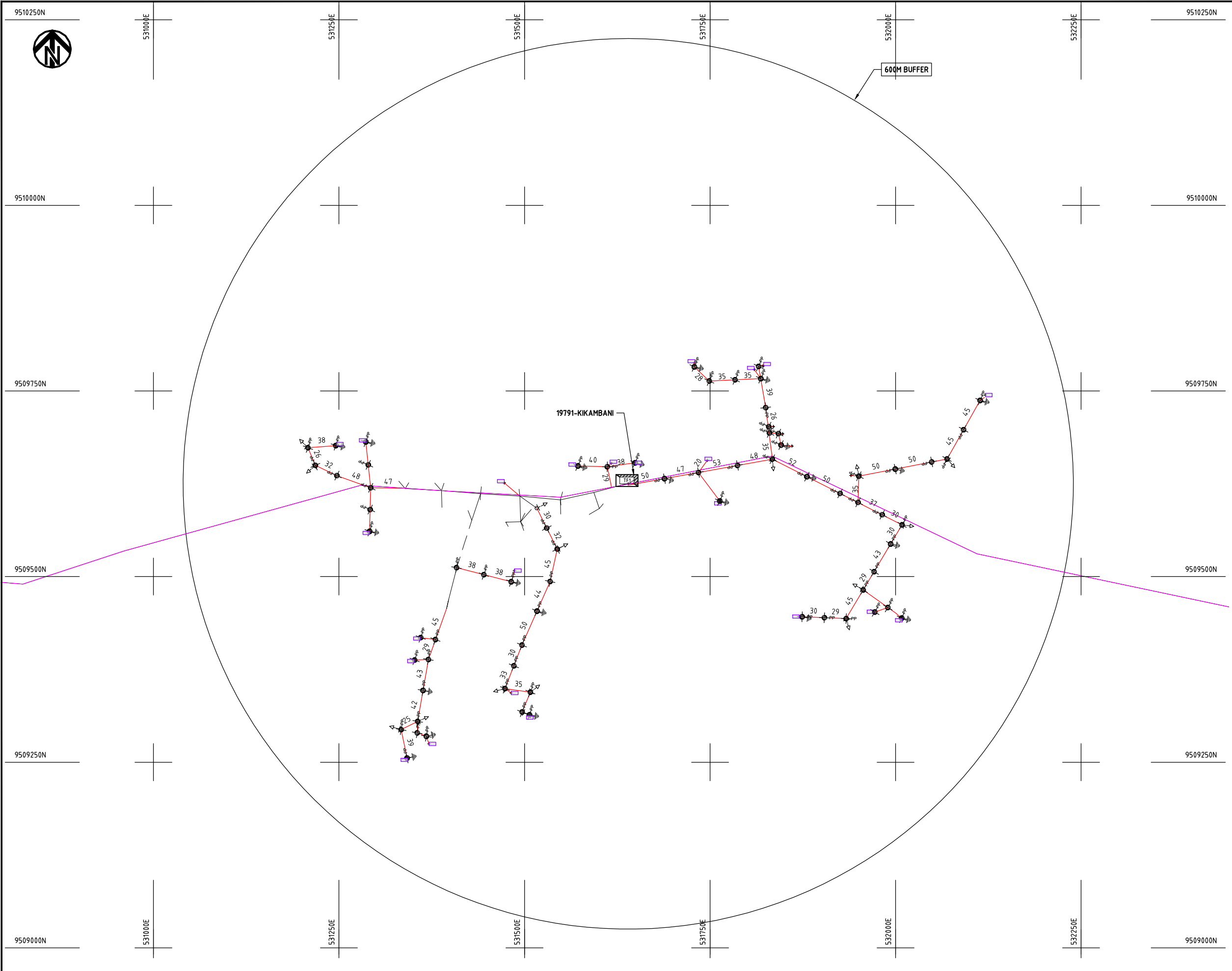
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2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT:	<b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE	DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 20785-MIWANI	KLF-MA-24	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE		KWL-MA-25	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 19791 - KIKAMBANI			DATE	10th SEP 2018	







9530250N

557000E

557250E

557500E

557750E

558000E

558250E

9530250N

9530000N

9530000N

9529750N

9529750N

9529500N

9529500N

9529250N

9529250N

557000E

557250E

557500E

557750E

558000E

558250E

600M BUFFER

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



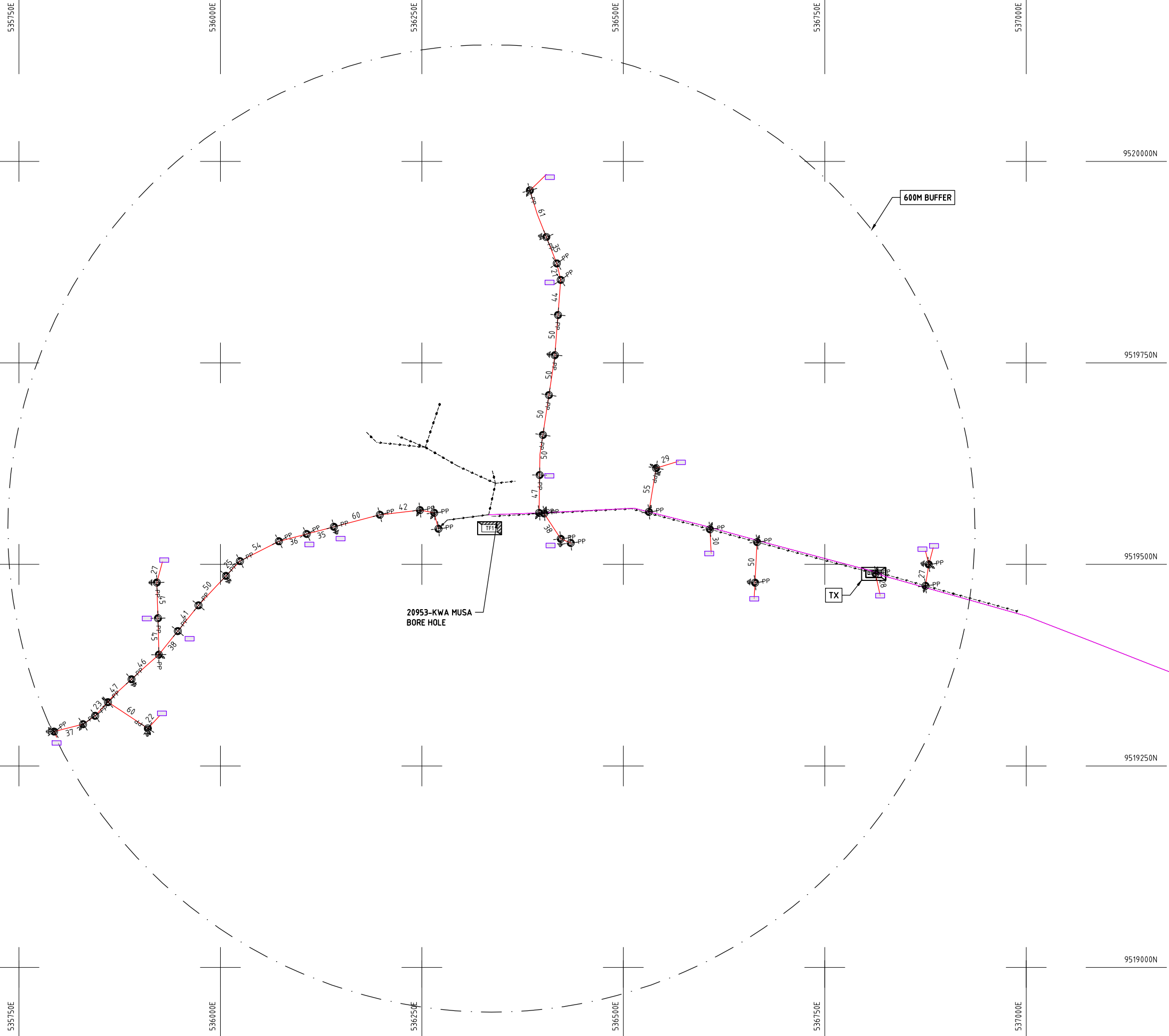
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PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KWALE  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 119692-DIMA

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-26	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



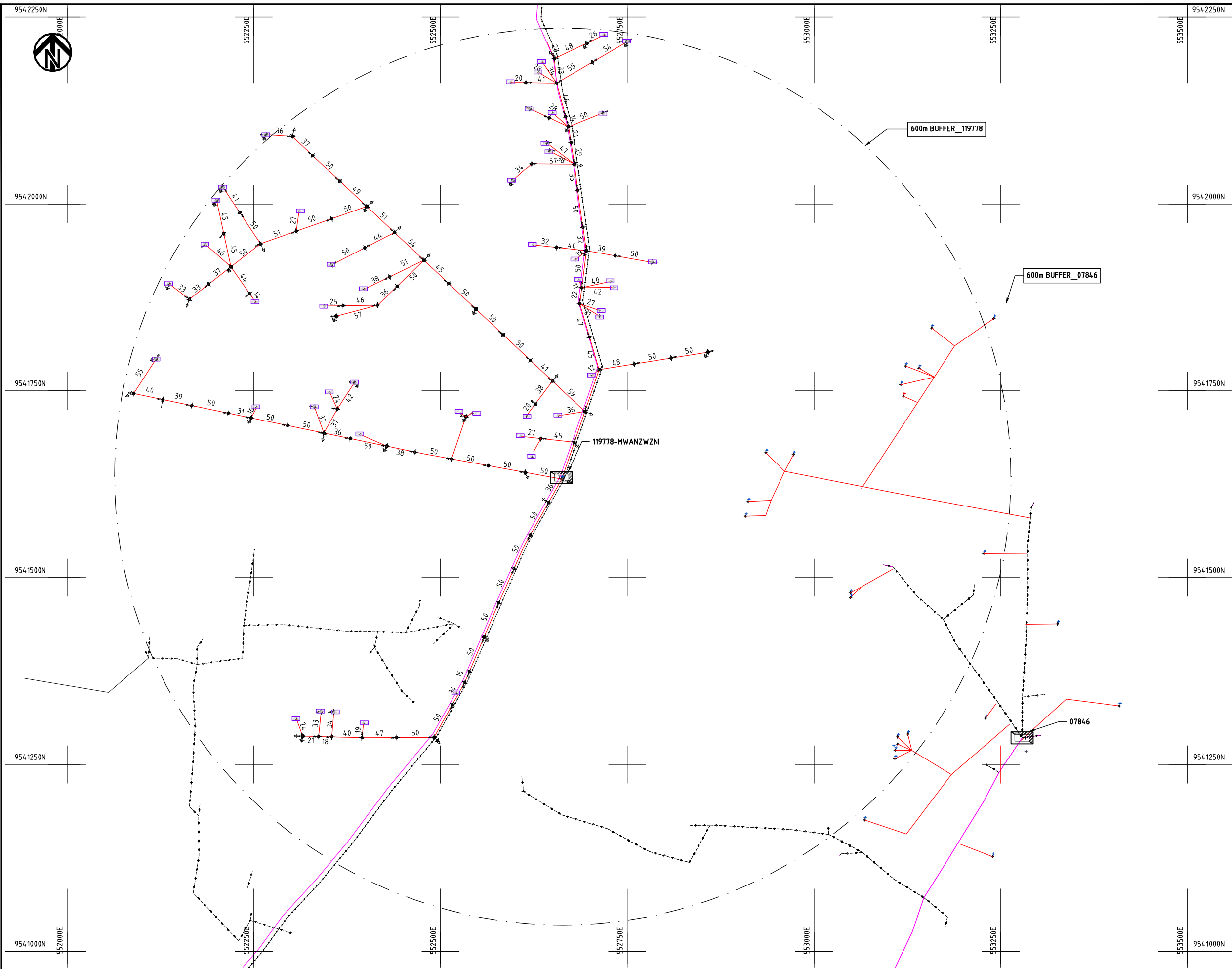


- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
			KWL-MA-27	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA			
	DATE	10th SEP 2018			
COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 20953 KWA MUSA BORE HOLE		NIPPON KOEI CO., LTD			



**NOTES:**

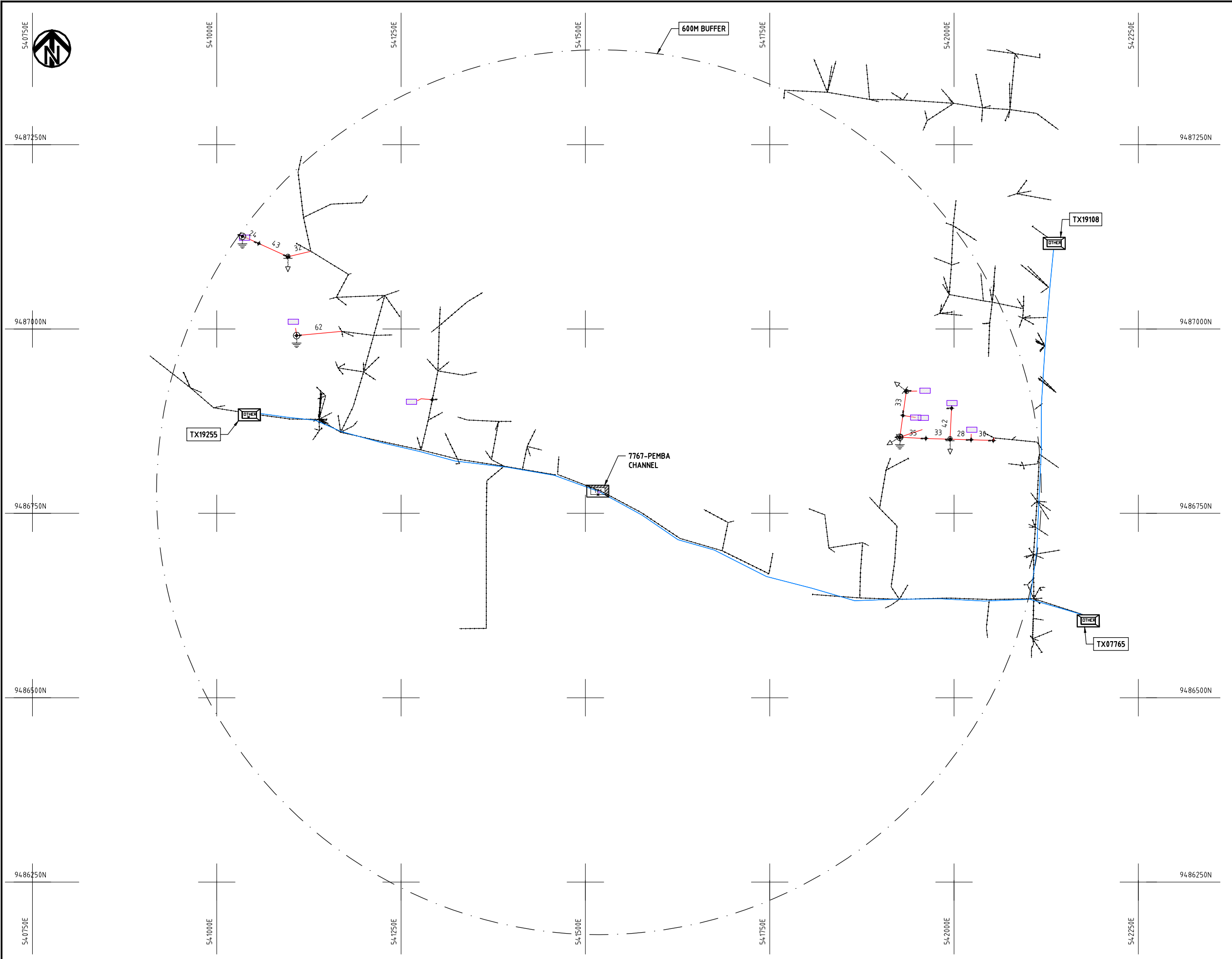
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

Scale bar and (A3)

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	<b>DRAWING TITLE</b>  COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 119778 - MWANZWNI	DRAW. NO. KLF-MA-28	PREPARED BY A.AKBAR  CHECKED BY S.MAETA  APPROVED BY Y.TANAKA  DATE 10th SEP 2018	
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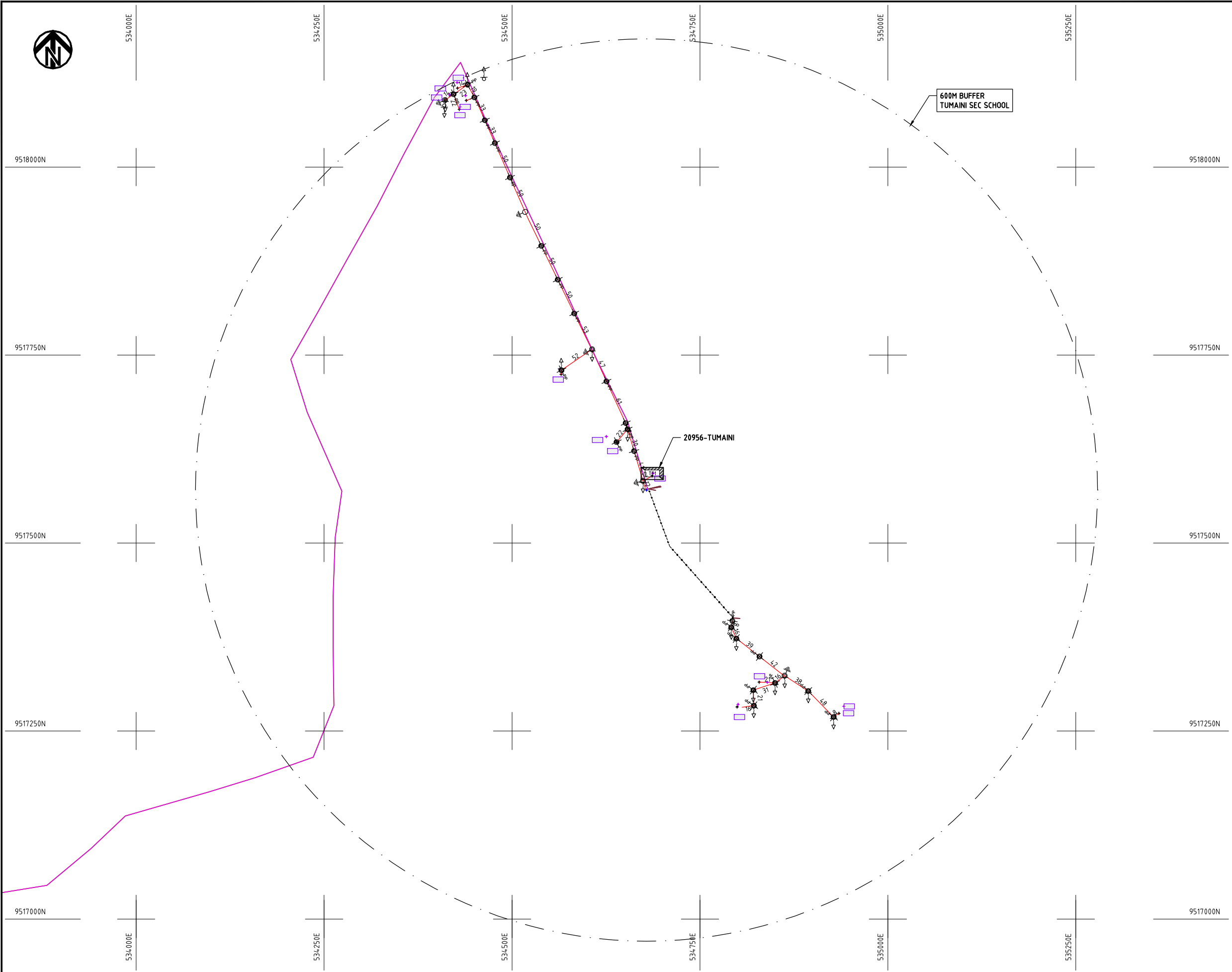
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE		KWL-MA-29	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 07767 PEMBA CHANNEL			DATE	10th SEP 2018	

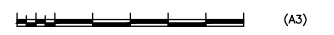




**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT: <b>THE PREPARATORY SURVEY          ON THE PROJECT FOR IMPROVEMENT          OF POWER DISTRIBUTION SYSTEM          IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 20956 TUMAINI		KLF-MA-30	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





531000E

531250E

531500E

531750E

532000E

532250E

9530250N

9530250N

9530000N

9530000N

9529750N

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9529500N

9529500N

9529250N

9529250N

531000E

531250E

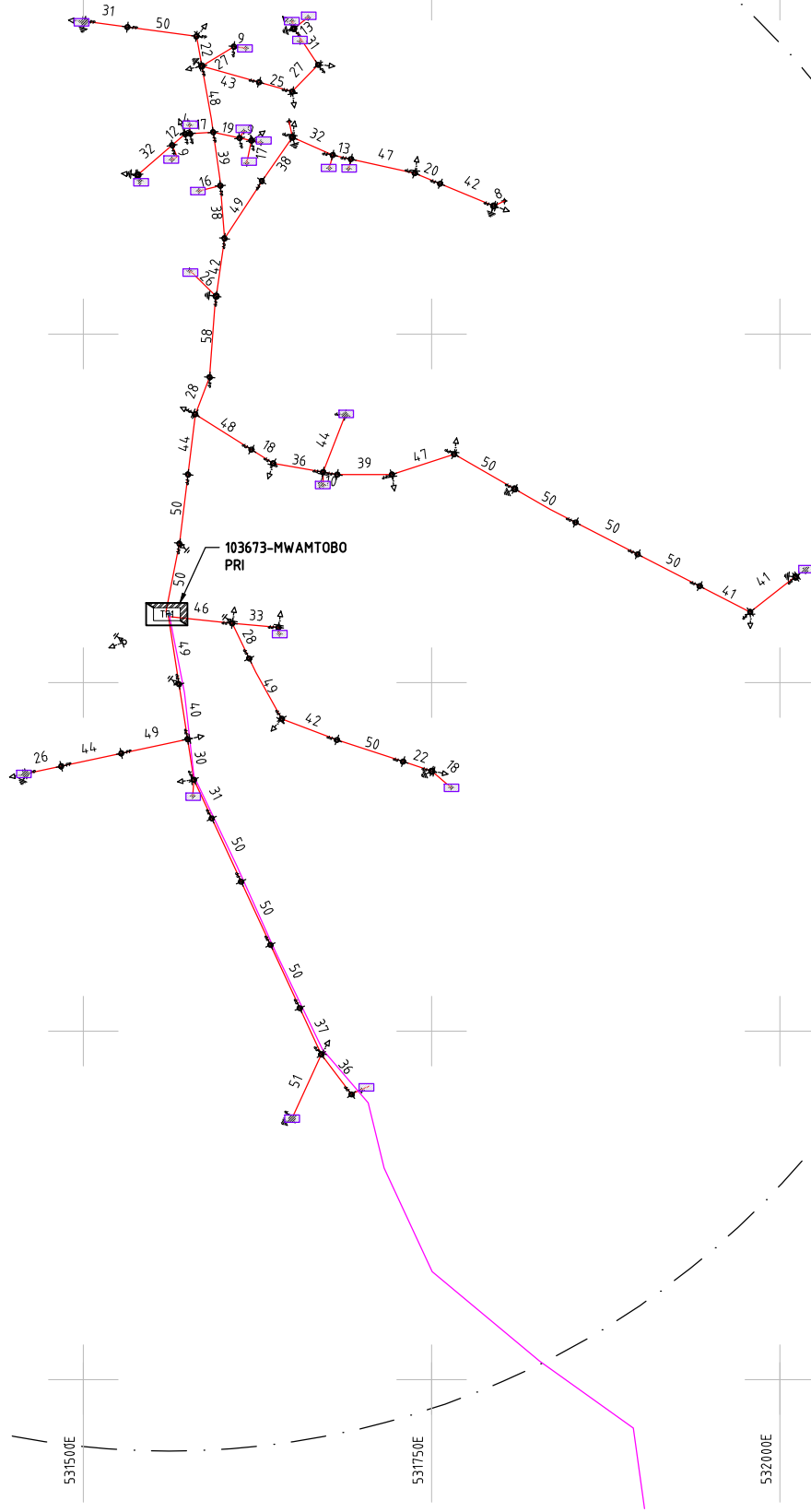
531500E

531750E

532000E

532250E

600m BUFFER\_103673



**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

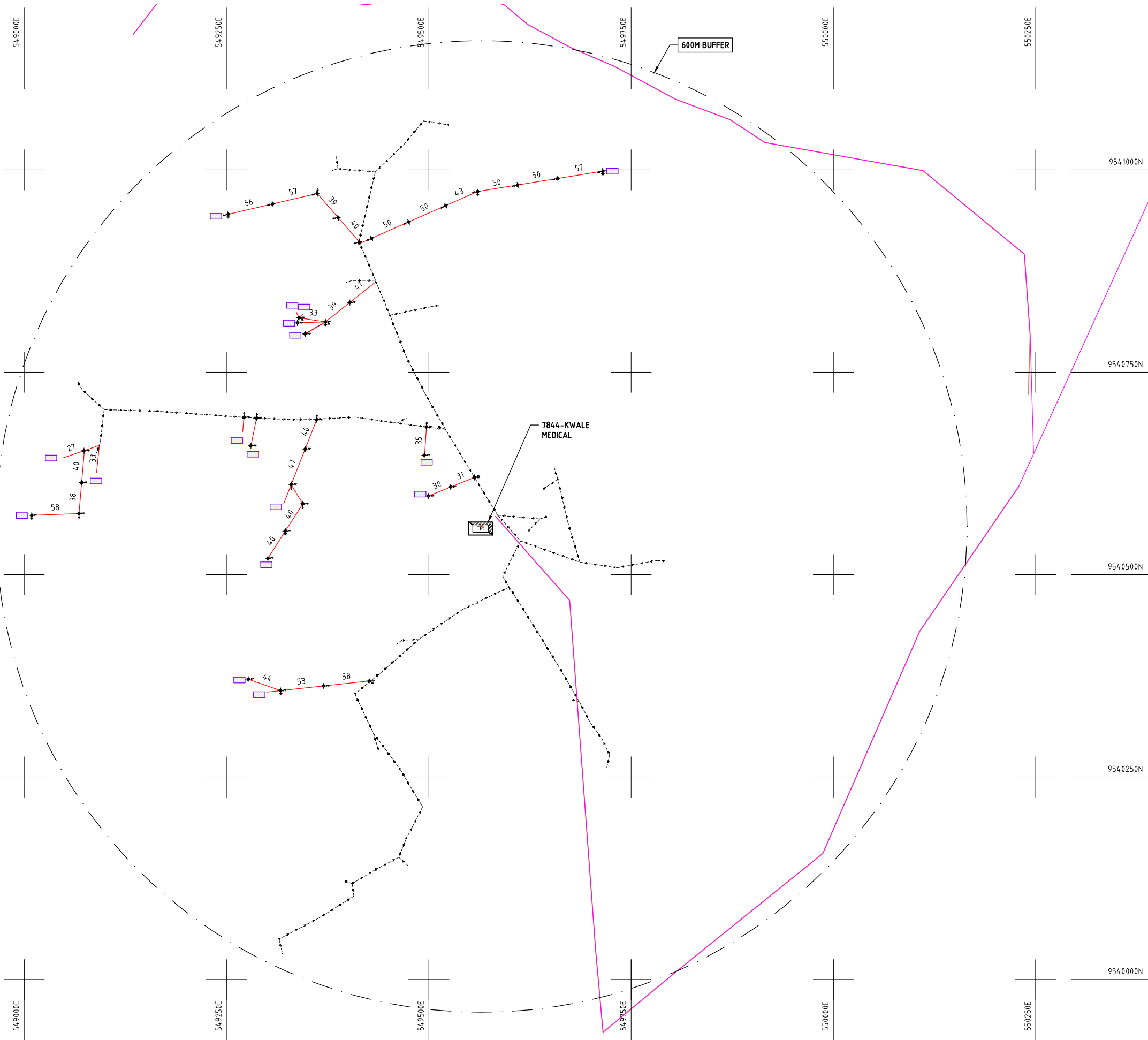
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PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KWALE  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 103673 - MWAMTOBO PRIMARY

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-31	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

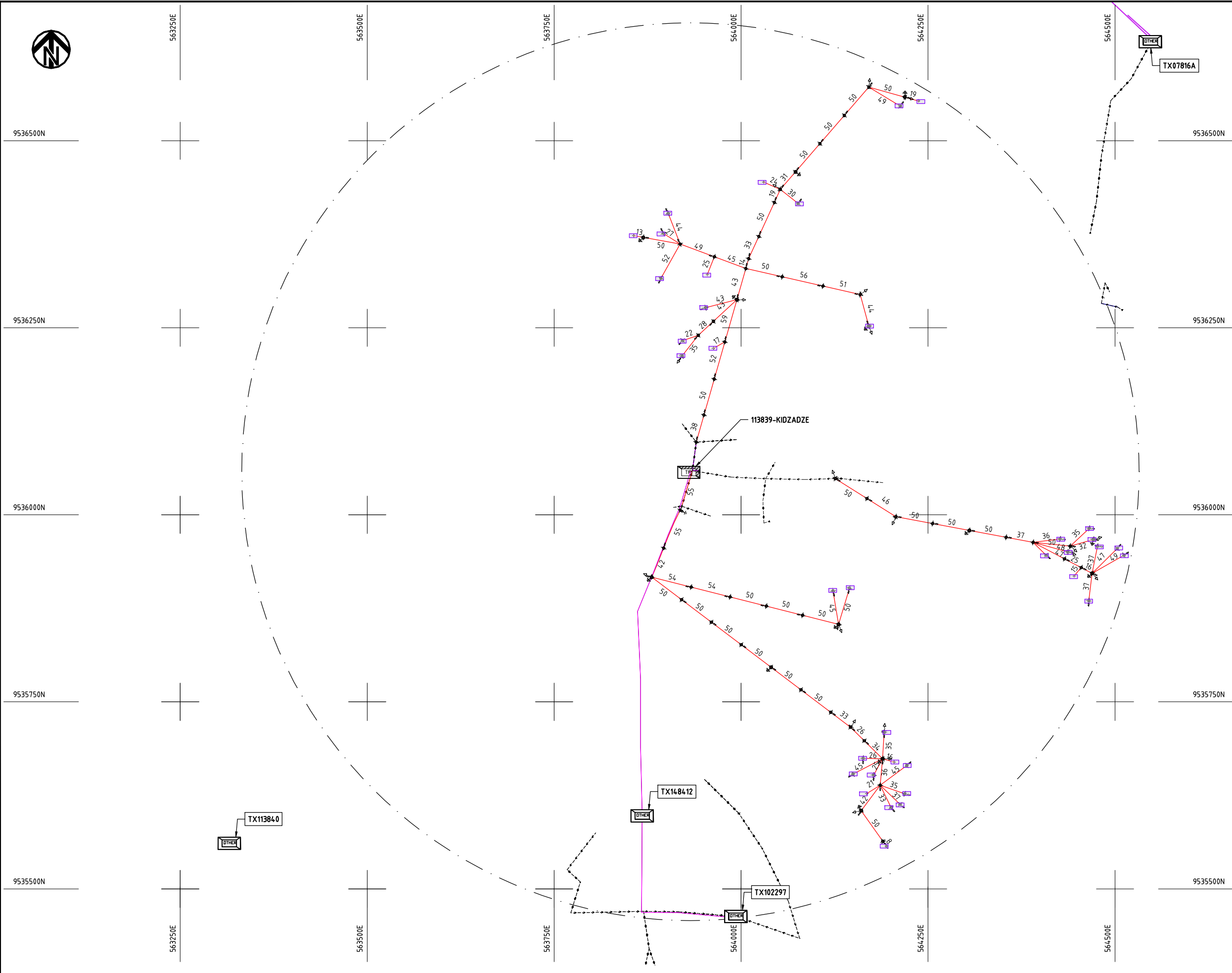


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PROJECT:	<p><b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b></p>	DRAWING TITLE	DRAW. NO.	PREPARED BY	A.AKBAR
		<p>COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 07844 KWALE MEDICAL</p>	KWL-MA-32	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018







**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

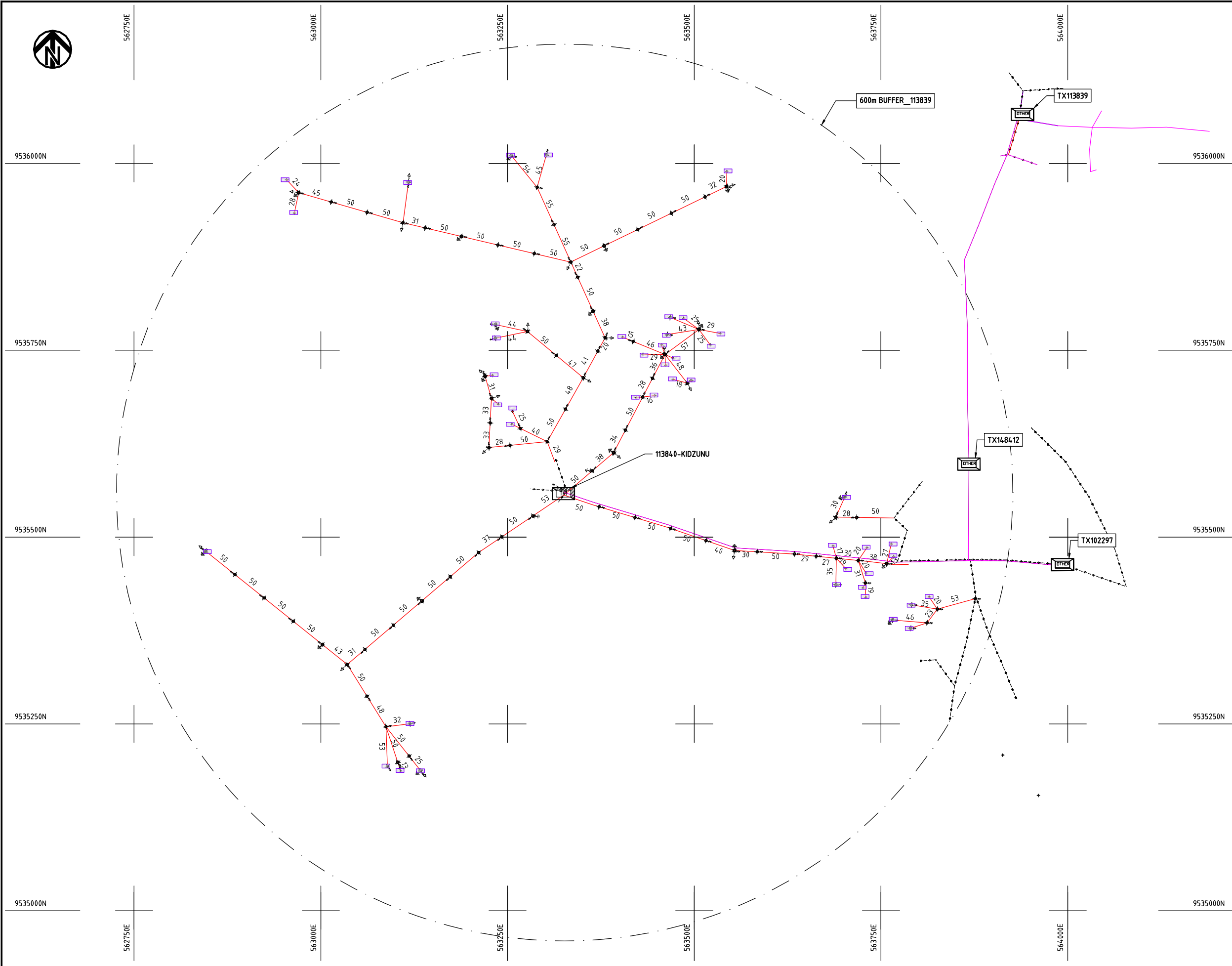


PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KWALE  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 113839 - KIDZADZE

DRAW. NO. KLF-MA-33	PREPARED BY	A.AKBAR
	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018

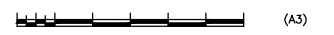




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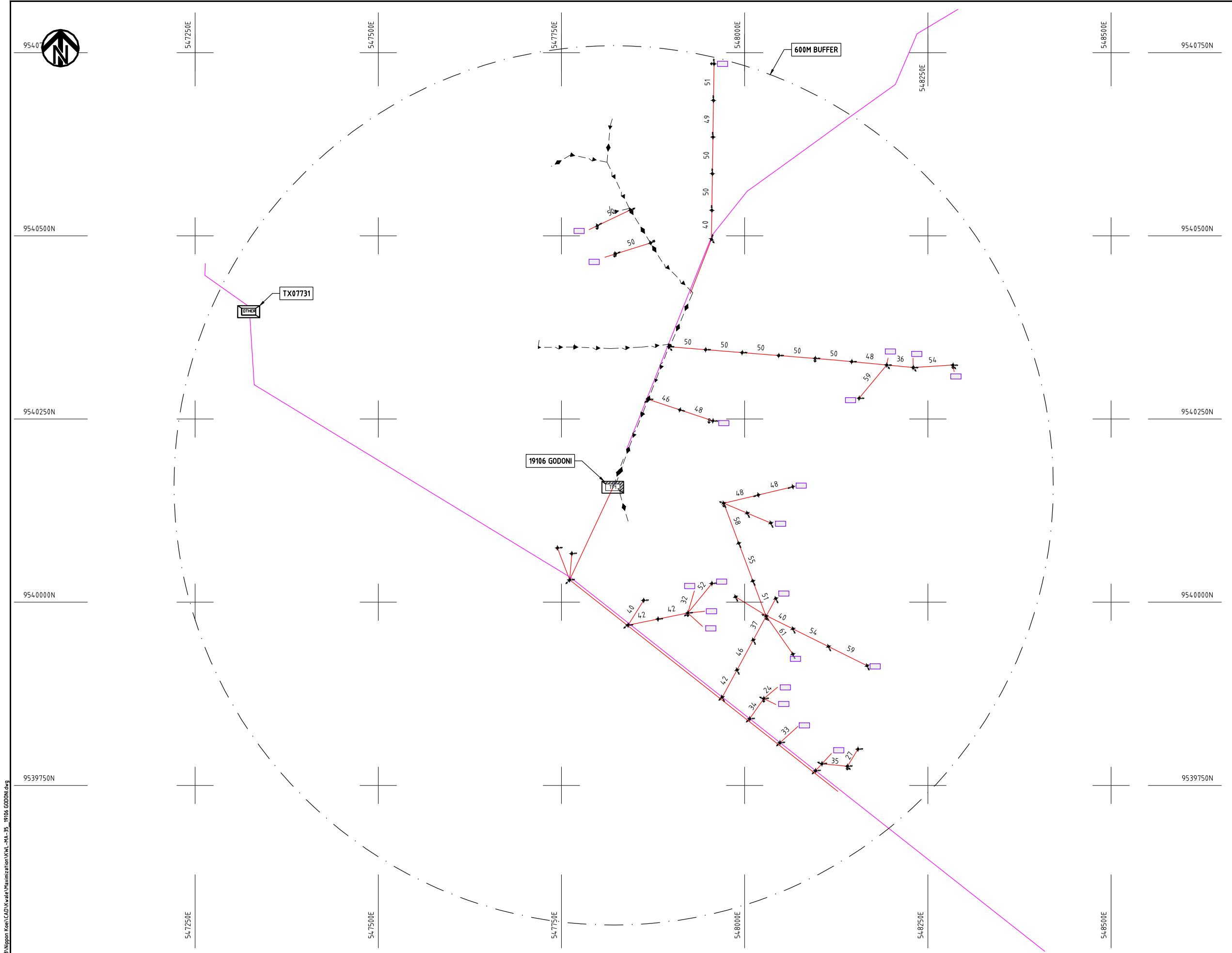
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE		KLF-MA-34	CHECKED BY	S.MAETA
SCHEME: MAXIMIZATION		APPROVED BY		Y.TANAKA	
PROJECT SITE: 113840 - KIDZUNU		DATE		10th SEP 2018	





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

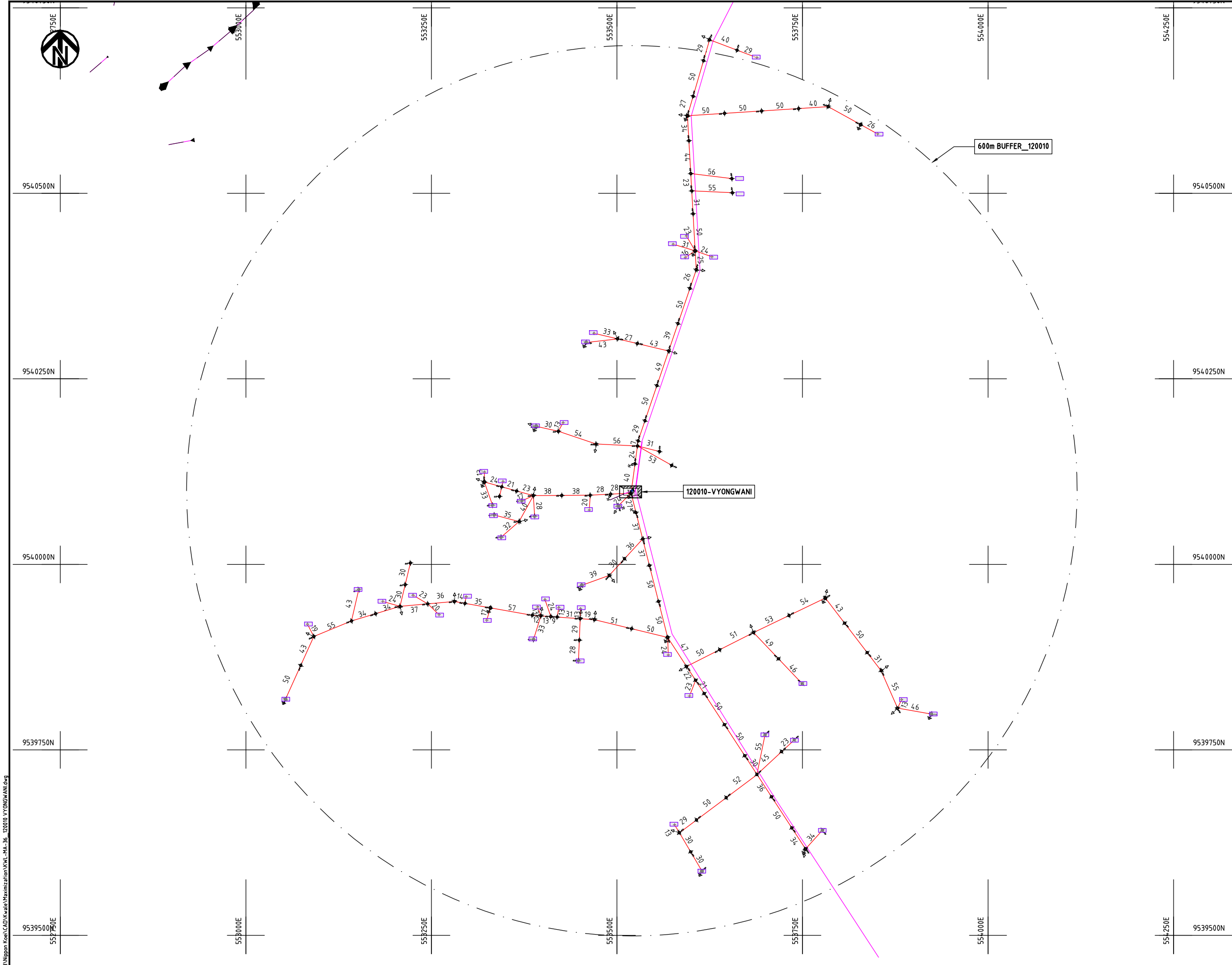
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



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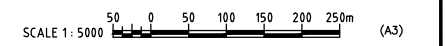
PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 19106 GODONI KWALE		KWL-MA-35	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

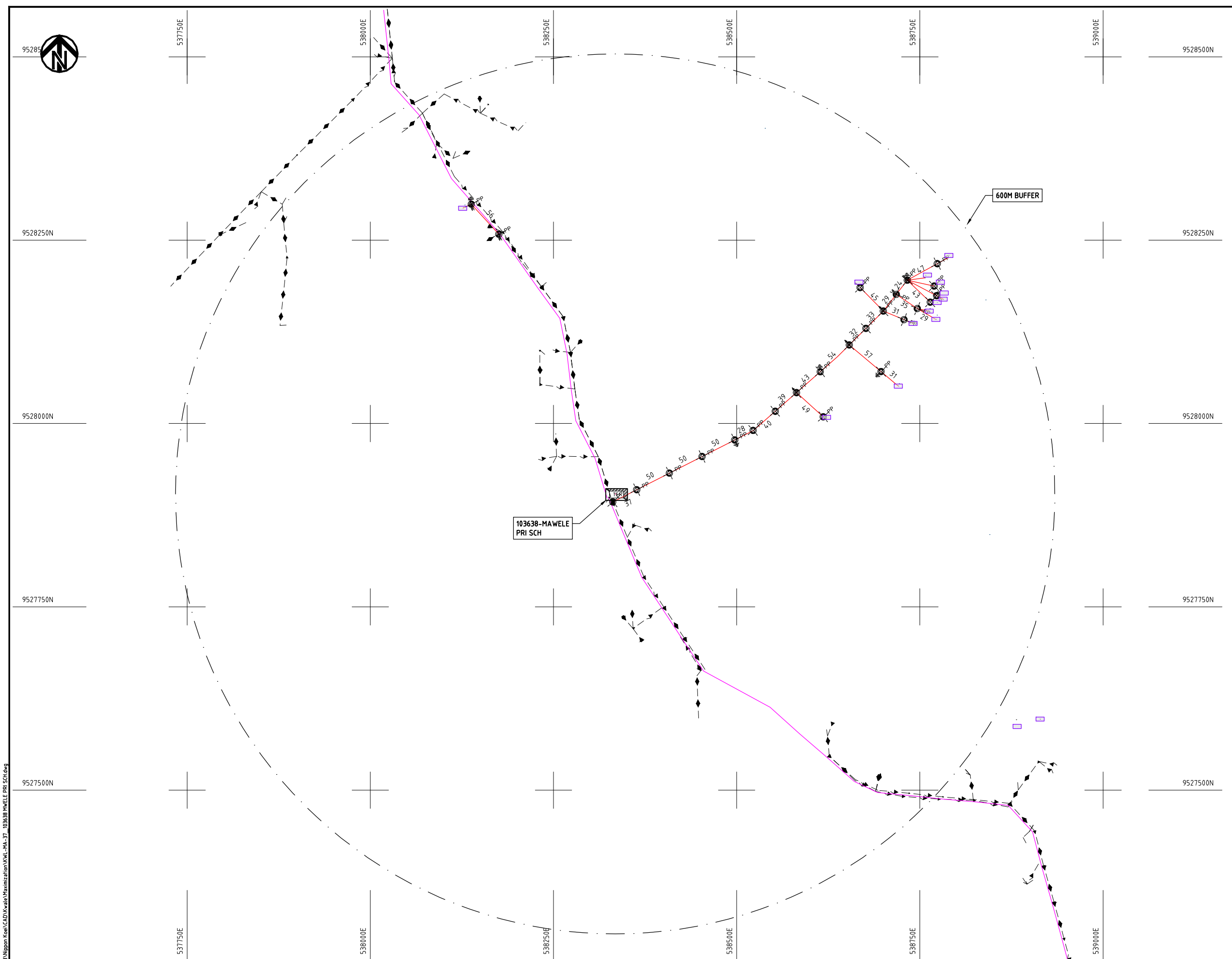
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



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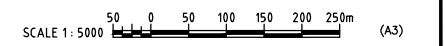
PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 120010 - VYONGWANI		KLF-MA-36	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

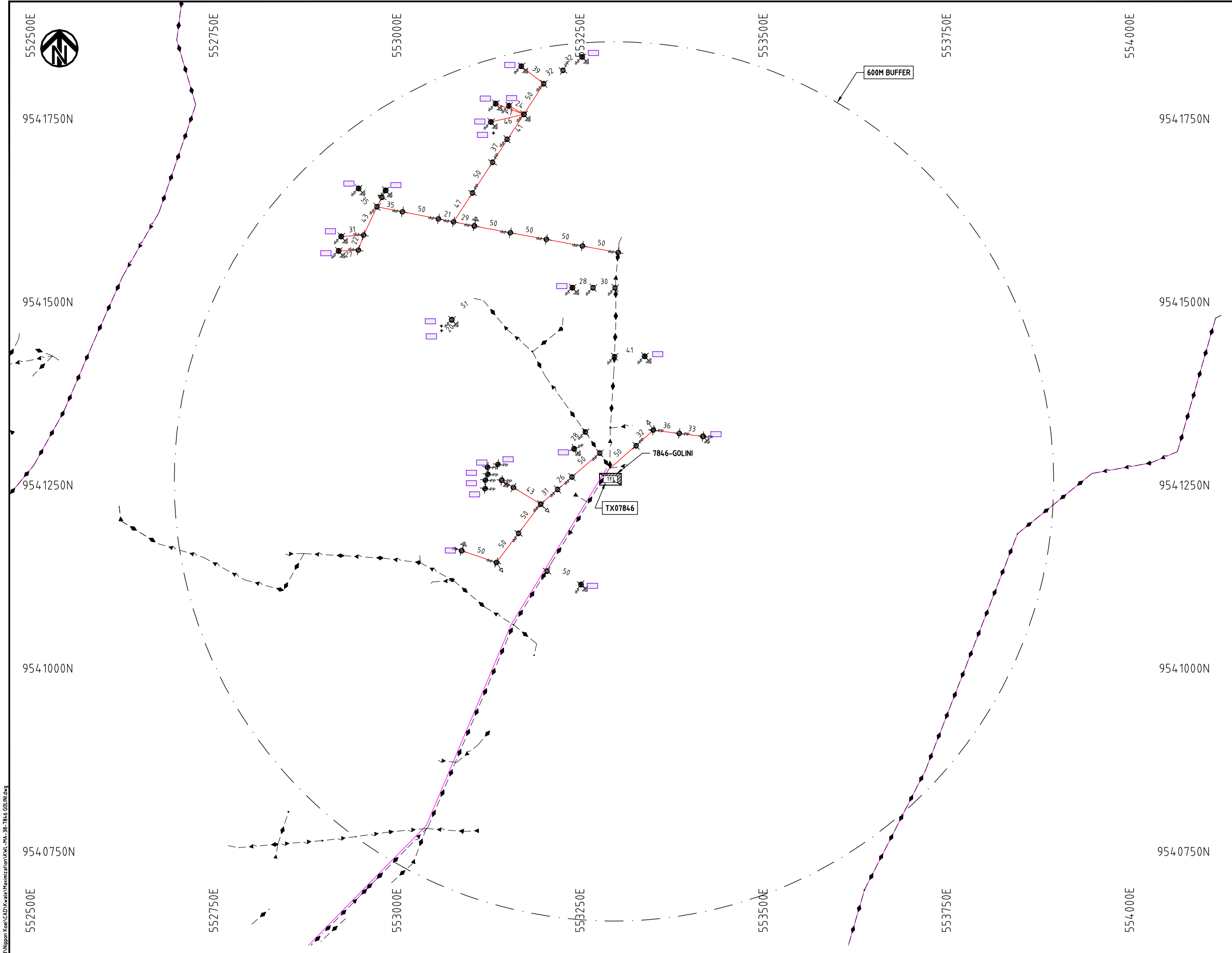
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Csd File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-37\_103638 MWELE PRI SCH.dwg

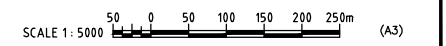
PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE		KWL-MA-37	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 103638 MWELE PRY SCH			DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

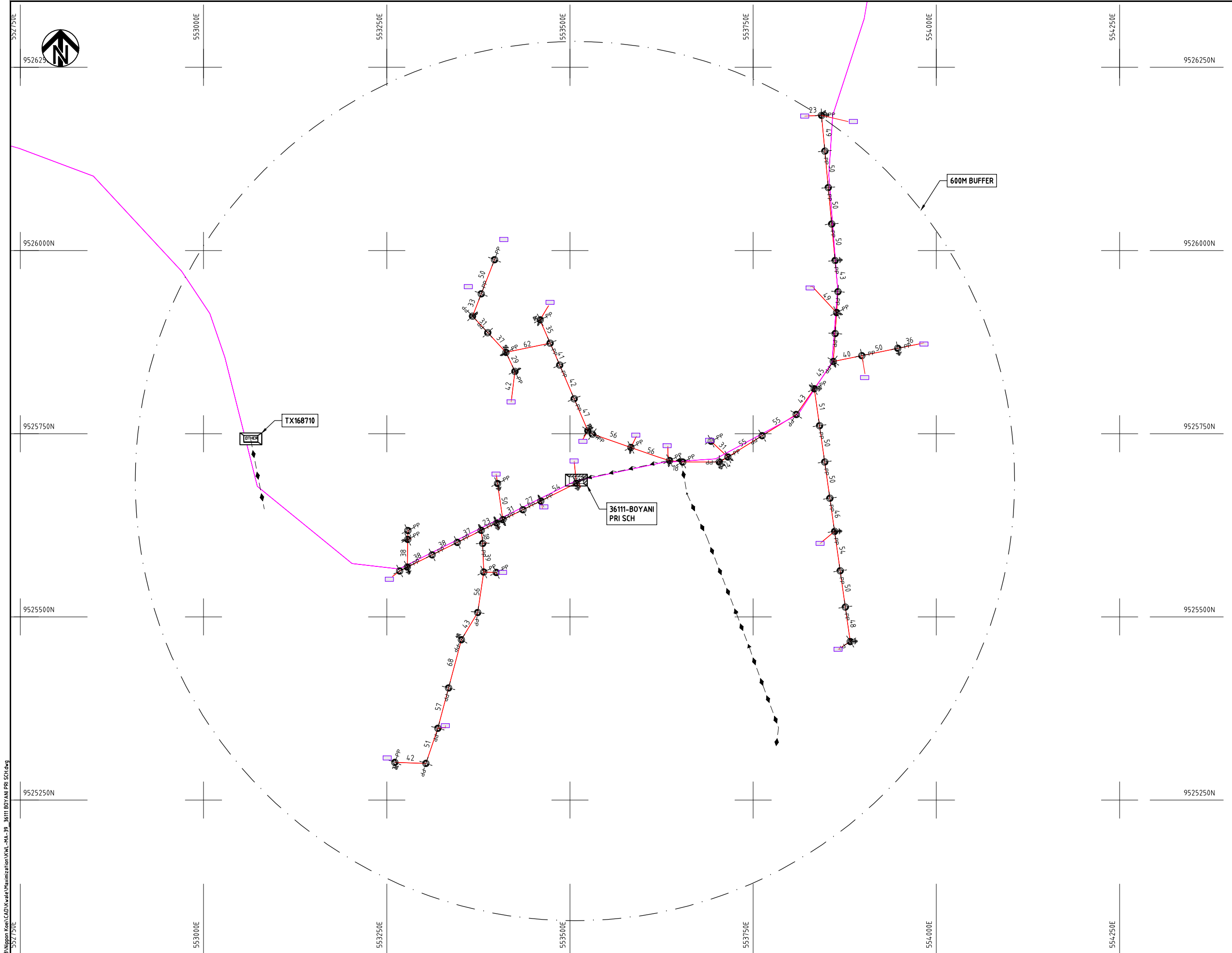
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Csd File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-38-7846-GOLINI.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 07846 - GOLINI		KWL-MA-38	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



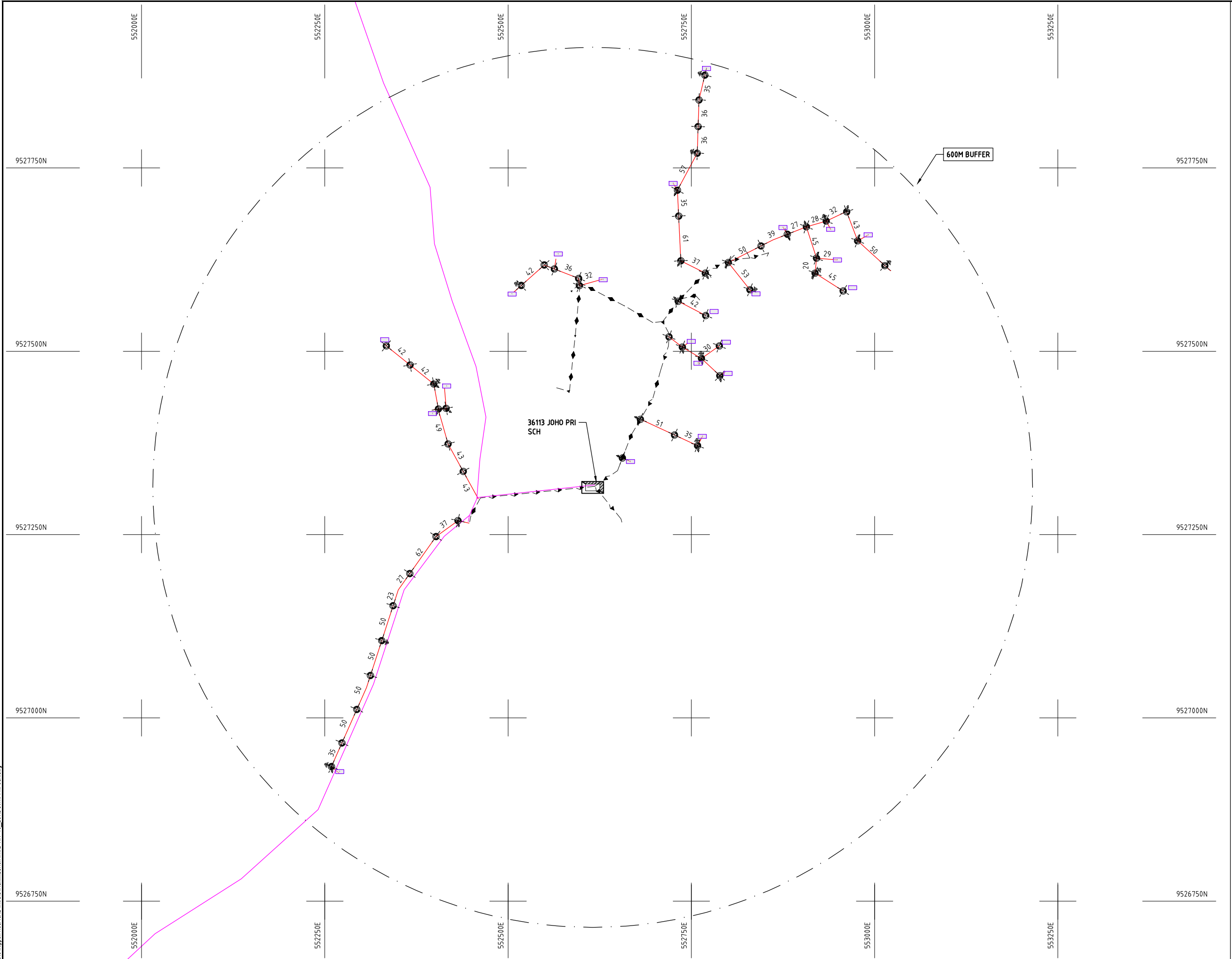
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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 36111 BOYANI PRIMARY SCHOOL		KWL-MA-39	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-40\_36113 JOHO PRI SCH.dwg



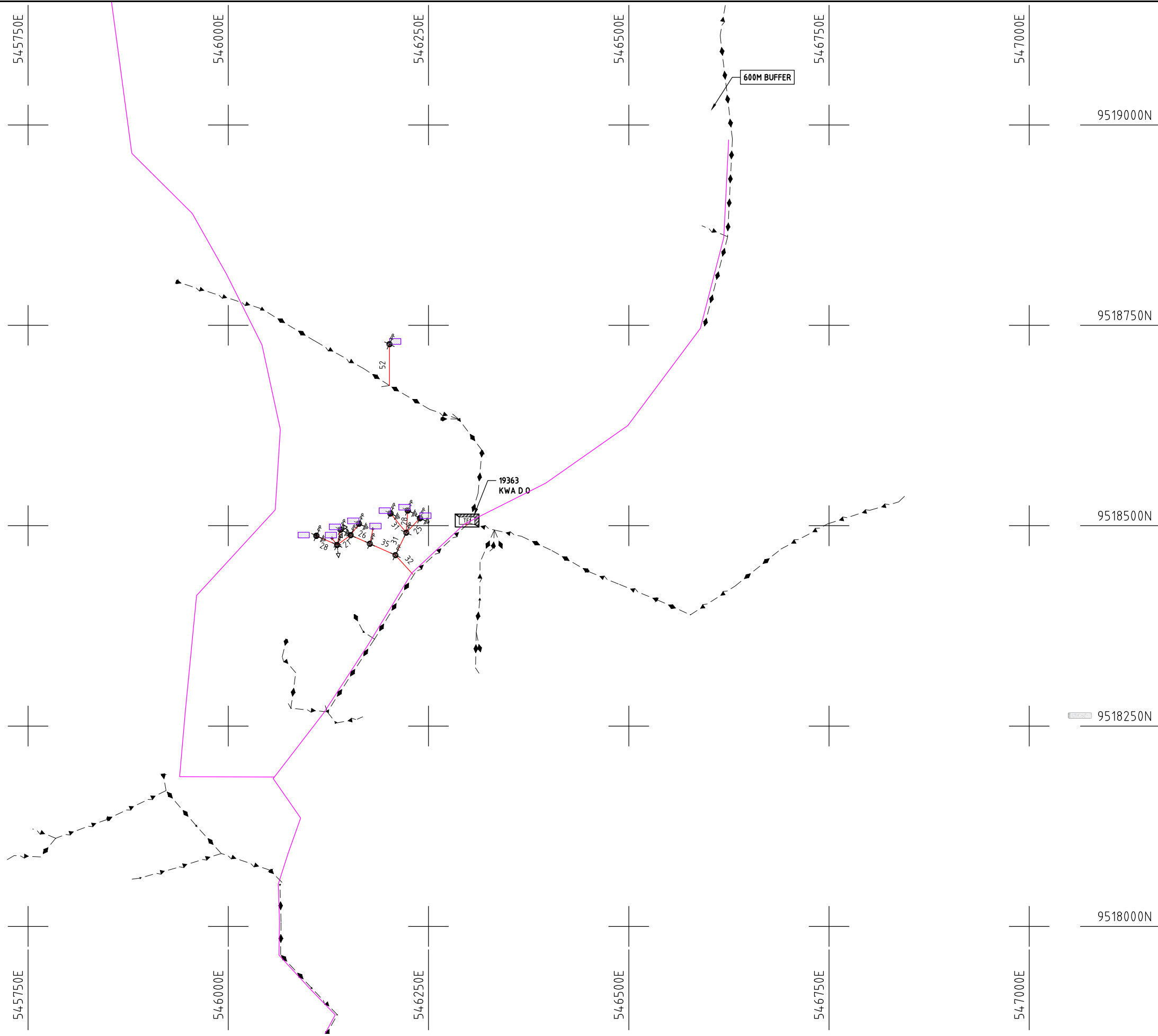
**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	<b>DRAWING TITLE</b> COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 36113 JOHO PRY SCH	DRAW. NO. KWL-MA-40	PREPARED BY A.AKBAR	CHECKED BY S.MAETA	APPROVED BY Y.TANAKA	DATE 10th SEP 2018
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- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-41\_19363-KWA D.O.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 19363 - KWA D.O.		KWL-MA-41	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





552000E

552500E

552500E

552750E

553000E

553250E

553500E

9530000N

9530000N

9529750N

9529750N

9529500N

9529500N

9529250N

9529250N

9529000N

9529000N

552000E

552500E

552500E

552750E

553000E

553250E

553500E

600M BUFFER

182656-MWANANYATI

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KWALE  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 182656-MWANANYATI

DRAW. NO.	PREPARED BY	A.AKBAR
KWL-MA-42	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-42\_182656-MWANANYATI.dwg



54 8250E

54 8500E

54 8750E

54 9000E

54 9250E

54 9500E

9524250N

9524250N

9524000N

9524000N

9523750N

9523750N

9523500N

9523500N

9523250N

9523250N

54 8250E

54 8500E

54 8750E

54 9000E

54 9250E

54 9500E

600M BUFFER

107373-FOOT PRT

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



PROJECT:

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: KWALE  
SCHEME: MAXIMIZATION  
PROJECT SITE: 107373 FOOT PRT

DRAW. NO.

KLF-MA-45

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018





9533500N

525000E

525250E

525500E

525750E

526000E

526250E

9533500N

9533250N

9533250N

9533000N

9533000N

9532750N

9532750N

9532500N

9532500N

525000E

525250E

525500E

525750E

526000E

526250E

600m BUFFER\_124552

124552-NGAURO PRI SCH

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



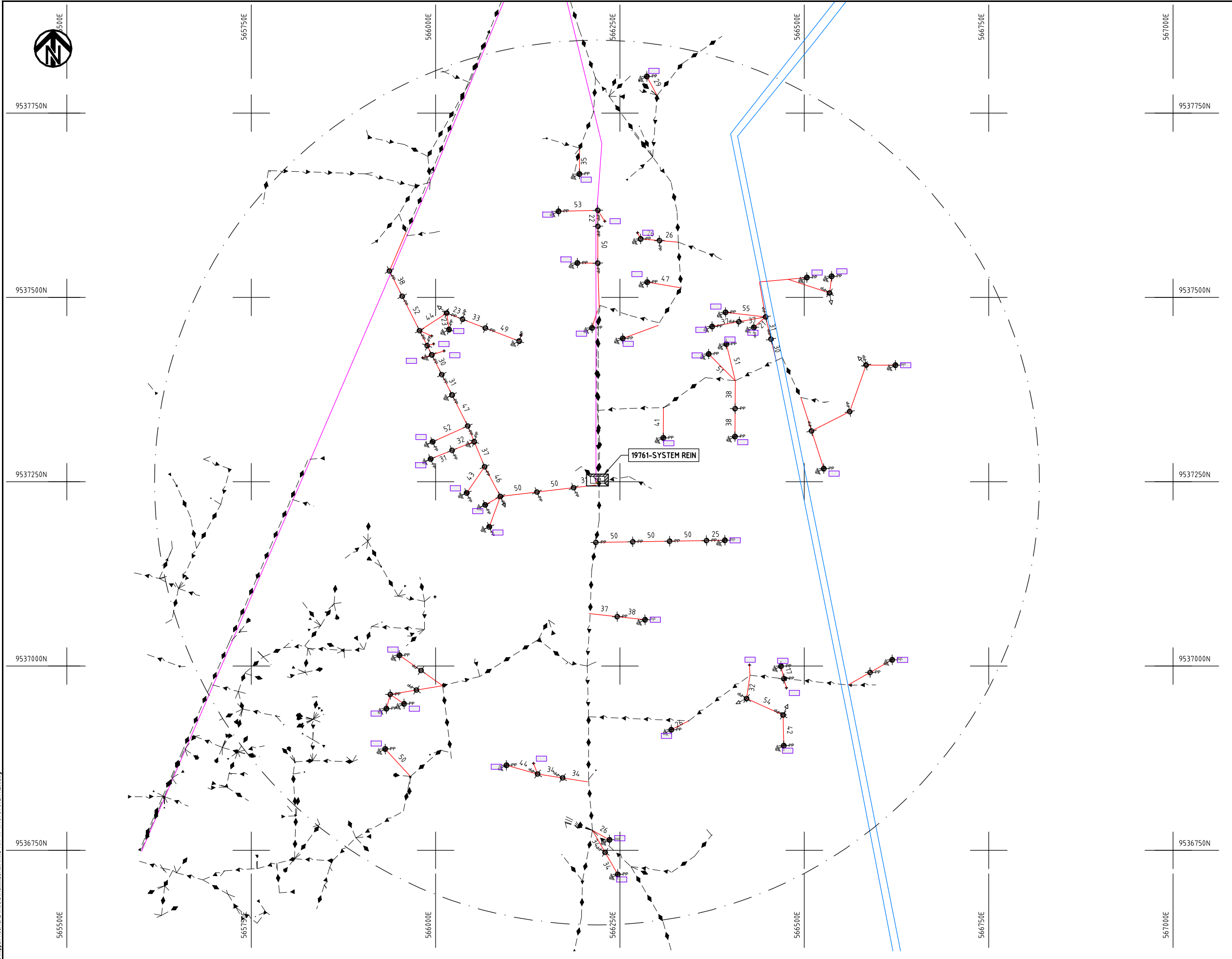
PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KWALE  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 124552 - NGAURO PRI. SCHOOL

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-46	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



Cad File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KW-MA-46\_124552\_NGAURO PRIMARY SCH.dwg



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

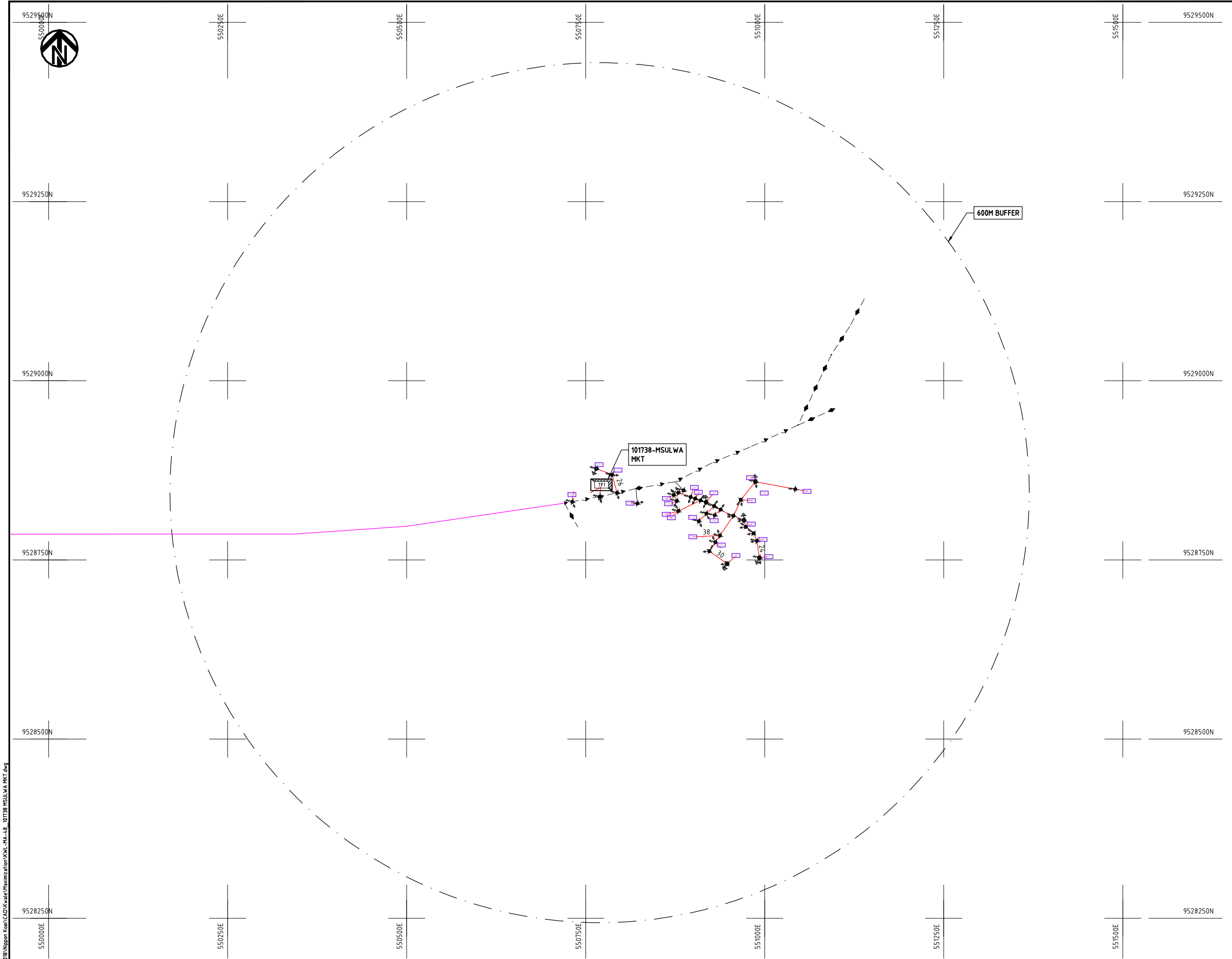
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	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	OTHER EXISTING TRANSFORMER
	WOODEN ELECTRIC POLES
	CONCRETE ELECTRIC POLES
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING
	STAY



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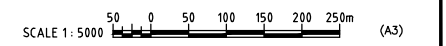
PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 19761 - SYSTEM REIN		KWL-MA-47	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY

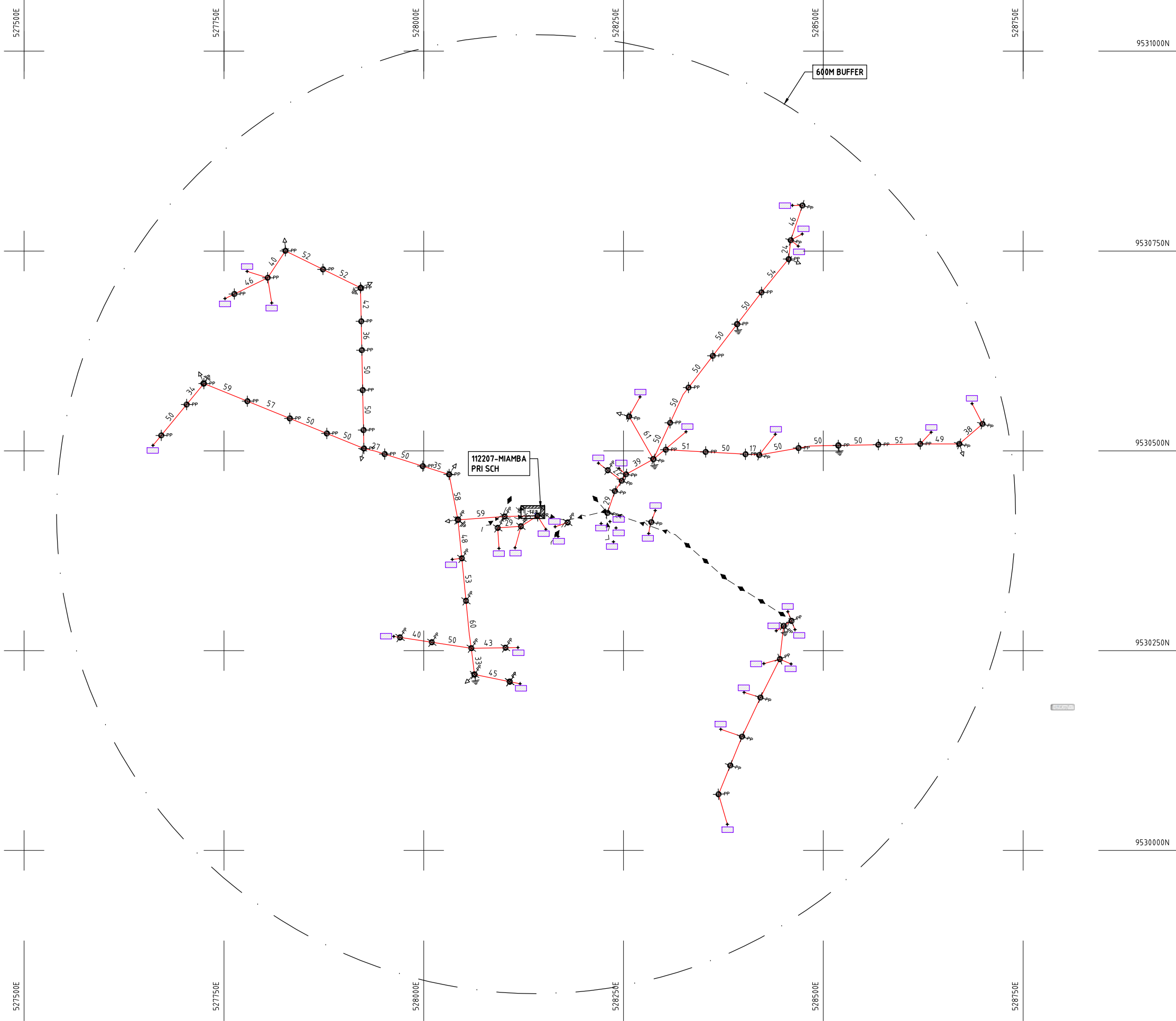


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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE	Scheme: MAXIMIZATION	KWL-MA-48	CHECKED BY	S.MAETA
PROJECT SITE: 101738 MSULWA MKT				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018







**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-49-112207 MIAMBA PRI. SCH.dwg  
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PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KWALE  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 112207 MIAMBA PRI. SCH.

DRAW. NO.	PREPARED BY	A.AKBAR
	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





9561500

9561250N

9561000N

9560750N

9560500N

555250E

555500E

555750E

556000E

556250E

556500E

9561500N

9561250N

9561000N

9560750N

9560500N

555250E

555500E

555750E

556000E

556250E

556500E

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

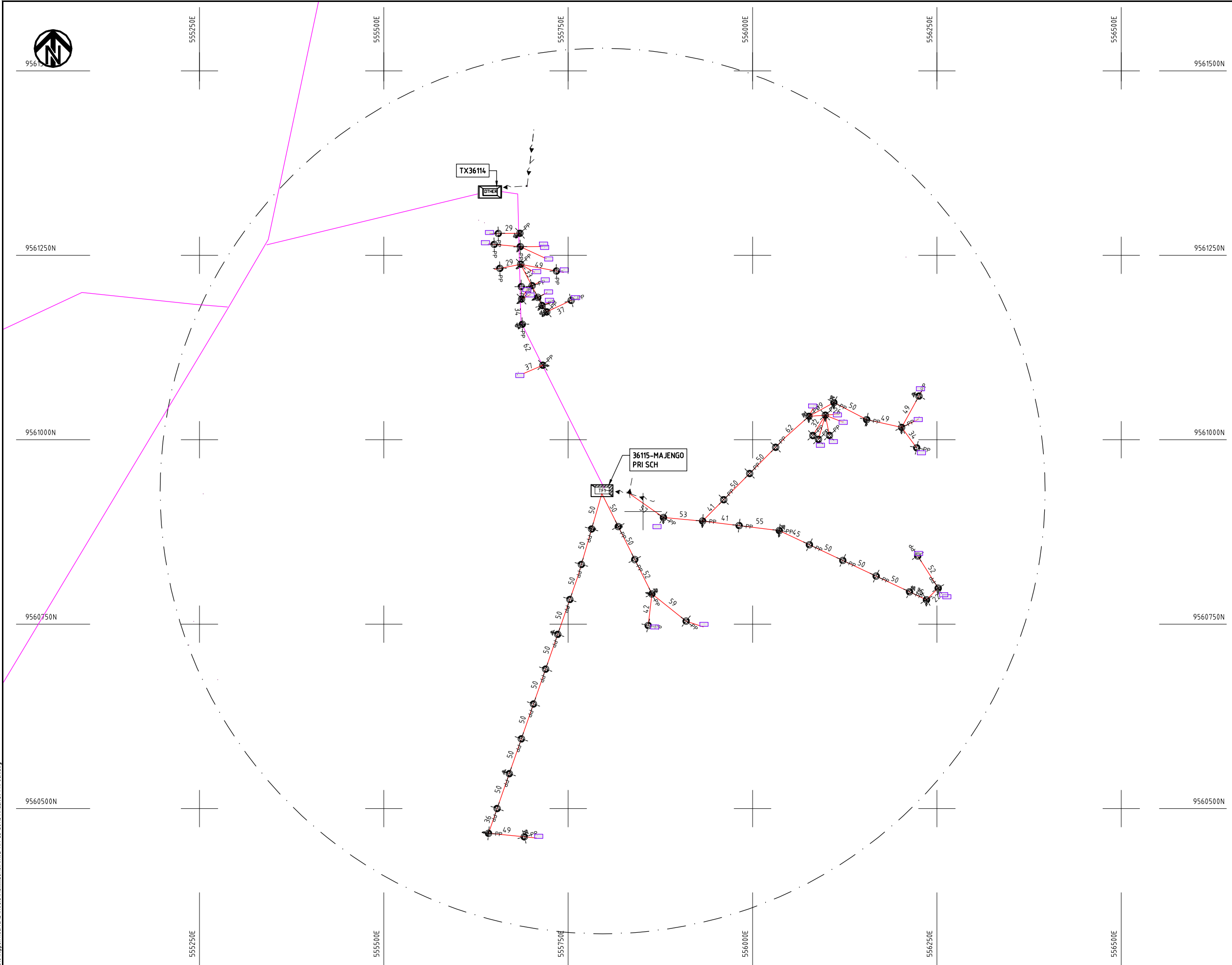
PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KWALE  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 36114 MAJENGO MKT

DRAW. NO.	PREPARED BY	A.AKBAR
KWL-MA-52	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-52-36114\_MAJENGO MKT.dwg



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



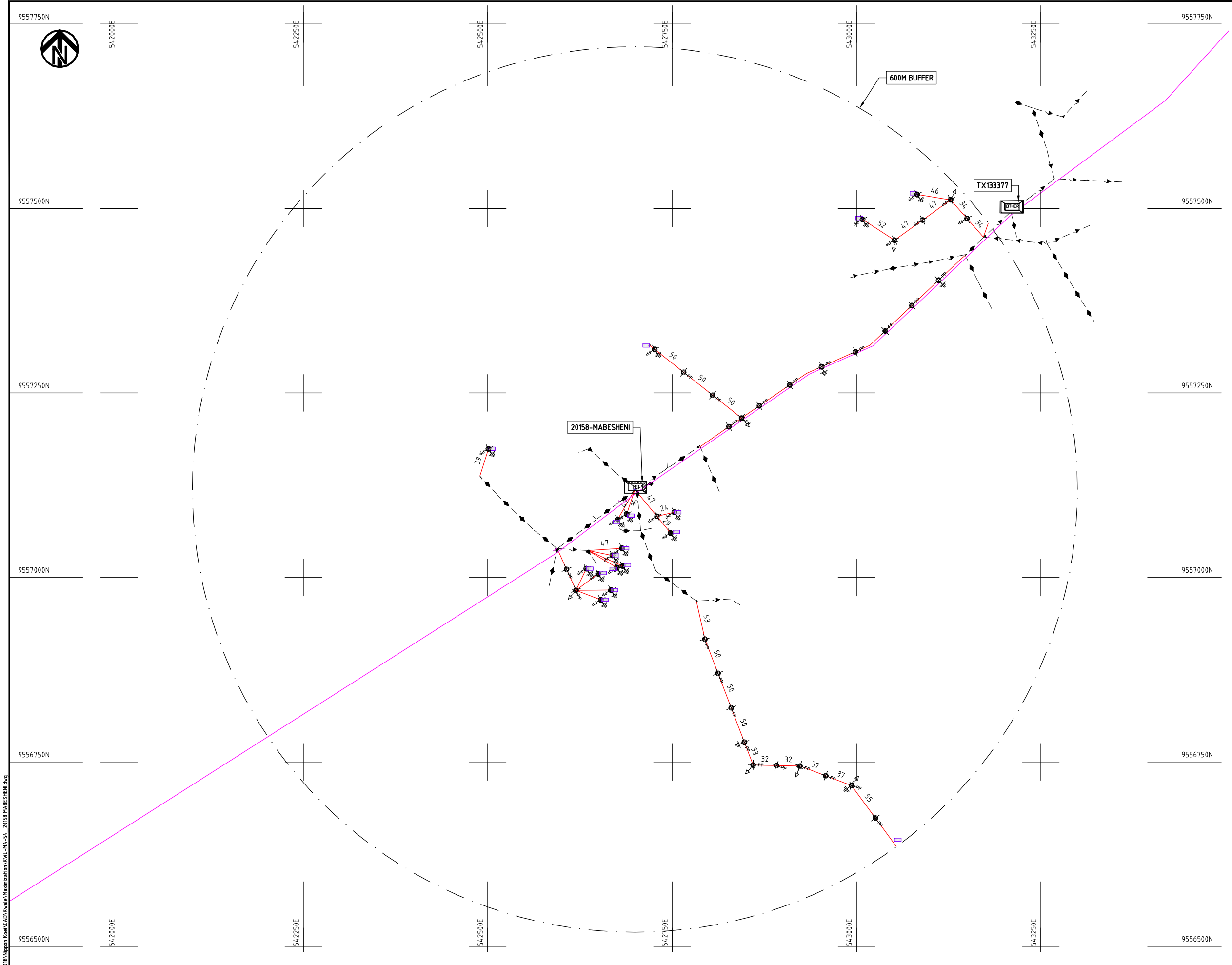
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PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KWALE  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 36115 MAJENGO PRY SCH

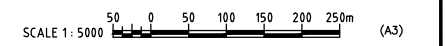
DRAW. NO.	PREPARED BY	A.AKBAR
KWL-MA-53	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

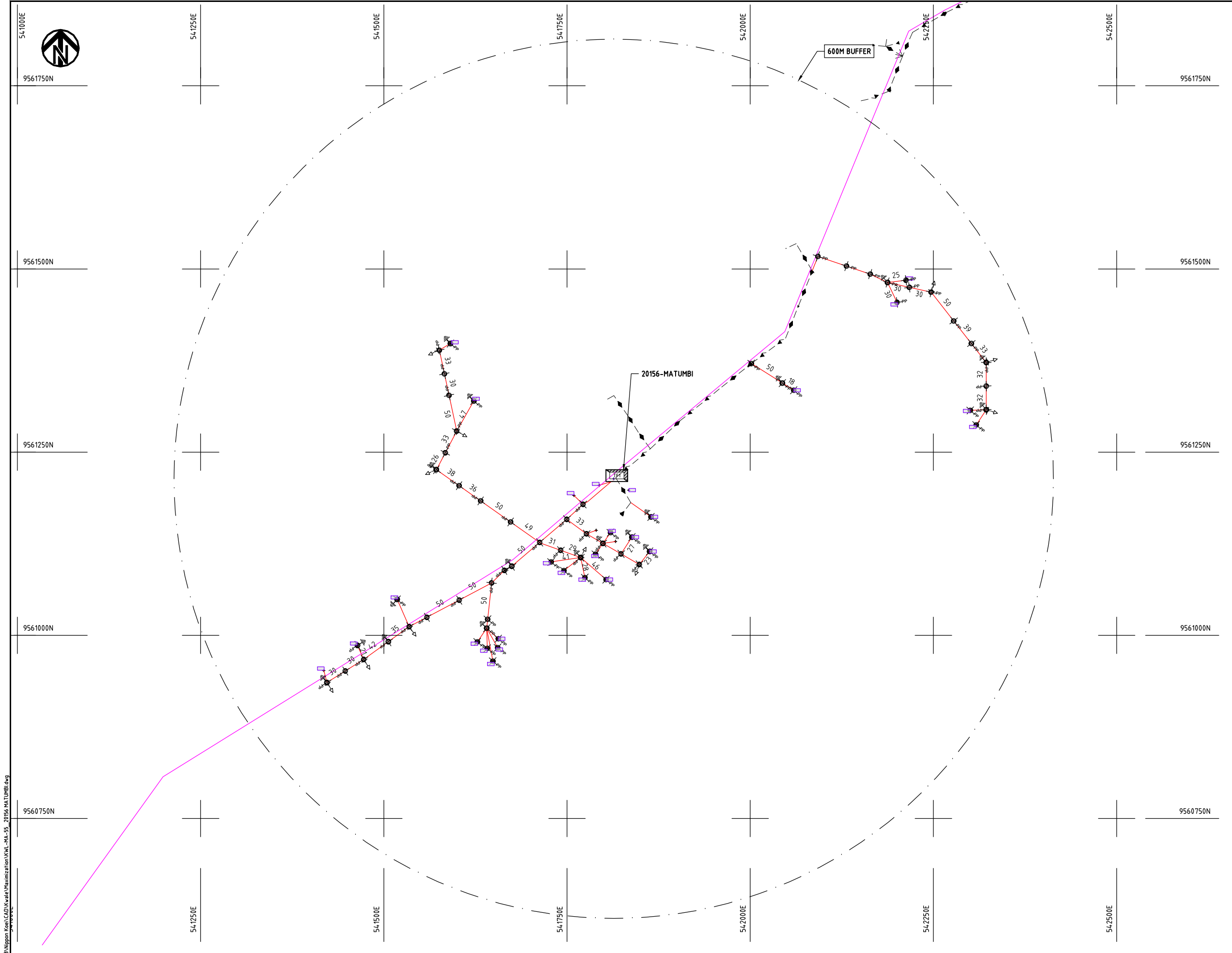
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Csd File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-54\_20158\_MABESHENI.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 20158 - MABESHENI		KWL-MA-54	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

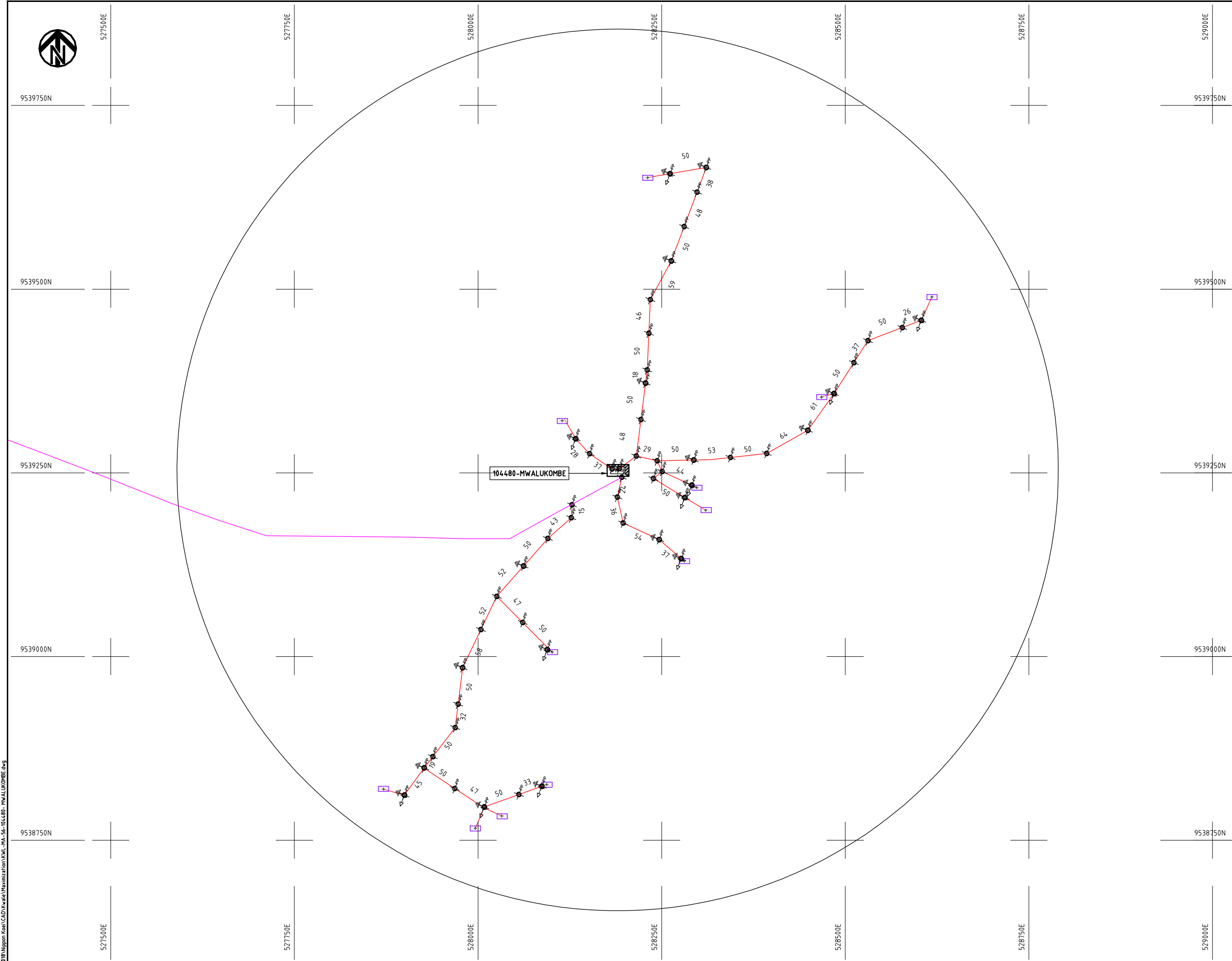
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-35\_20156\_MATUMBI.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE		KWL-MA-55	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 20156 - MATUMBI			DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

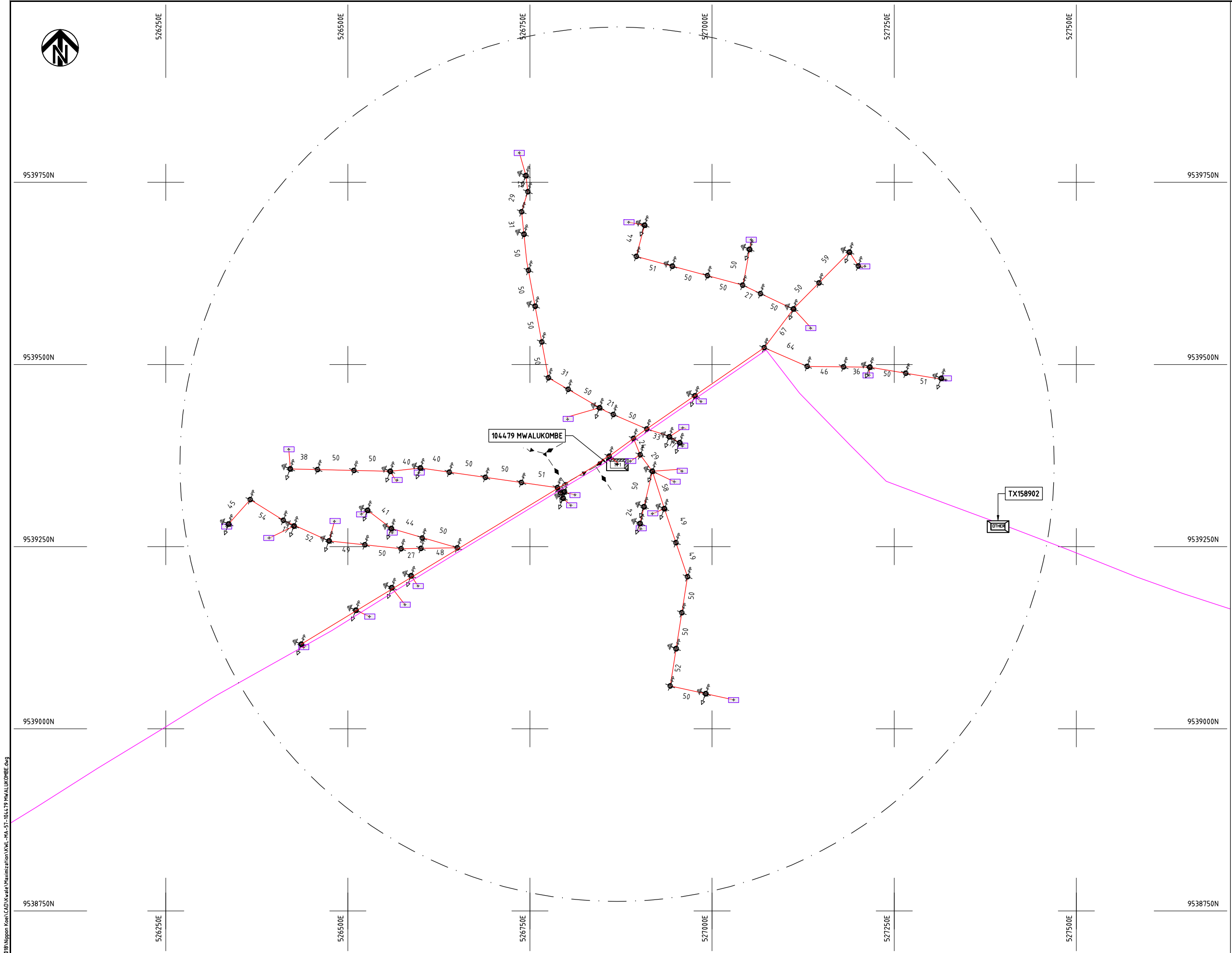
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-56-104480-MWALUKOMBE.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE		KWL-MA-56	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 104480 MWALUKOMBE			DATE	10th SEP 2018

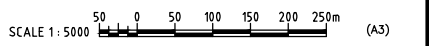




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

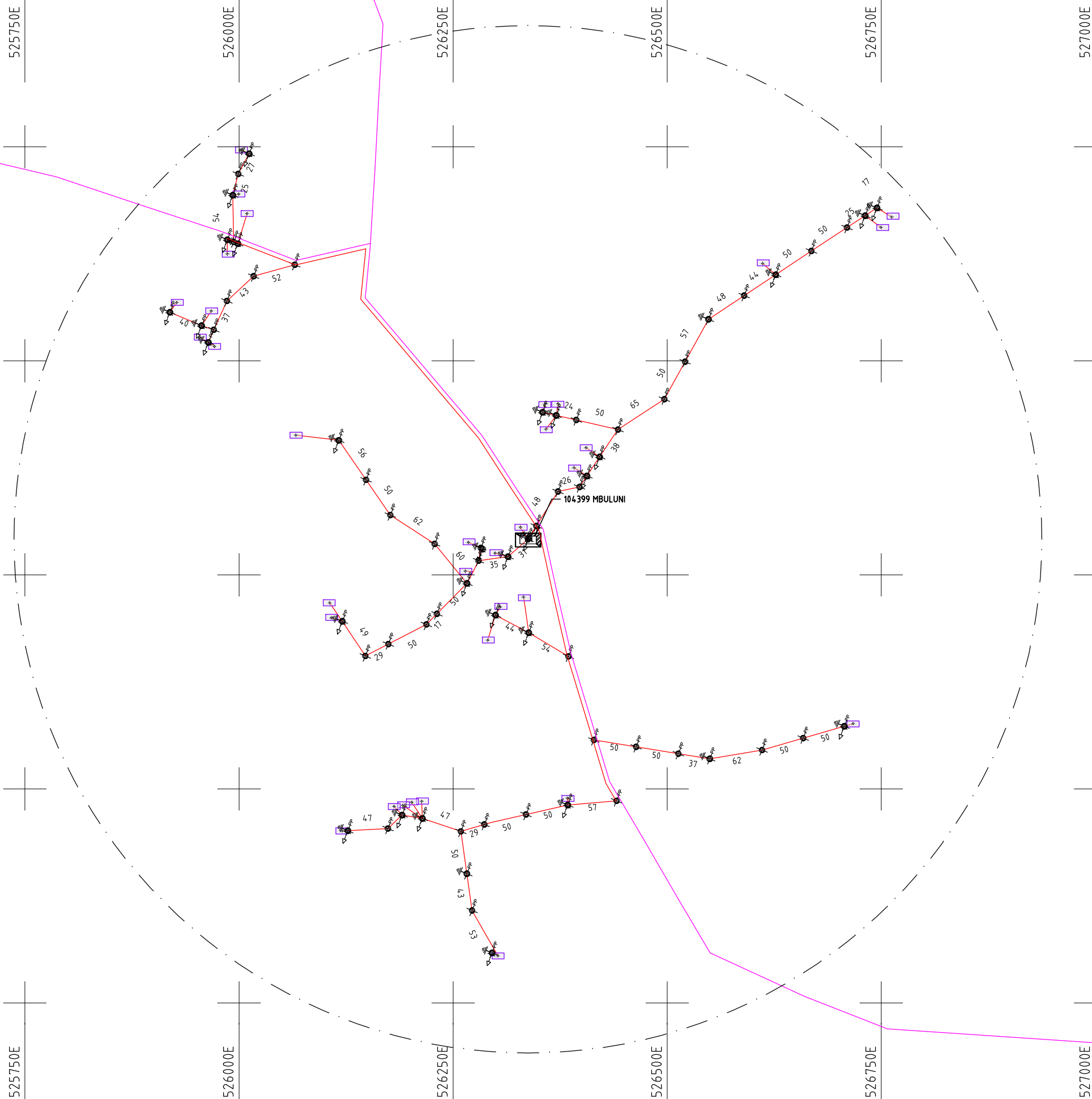


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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE		KWL-MA-57	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 104.479 MWALUKOMBE			DATE	10th SEP 2018





**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: KWALE  
SCHEME: MAXIMIZATION  
PROJECT SITE: 104399 MBULUNI

DRAW. NO.

KWL-MA-58

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

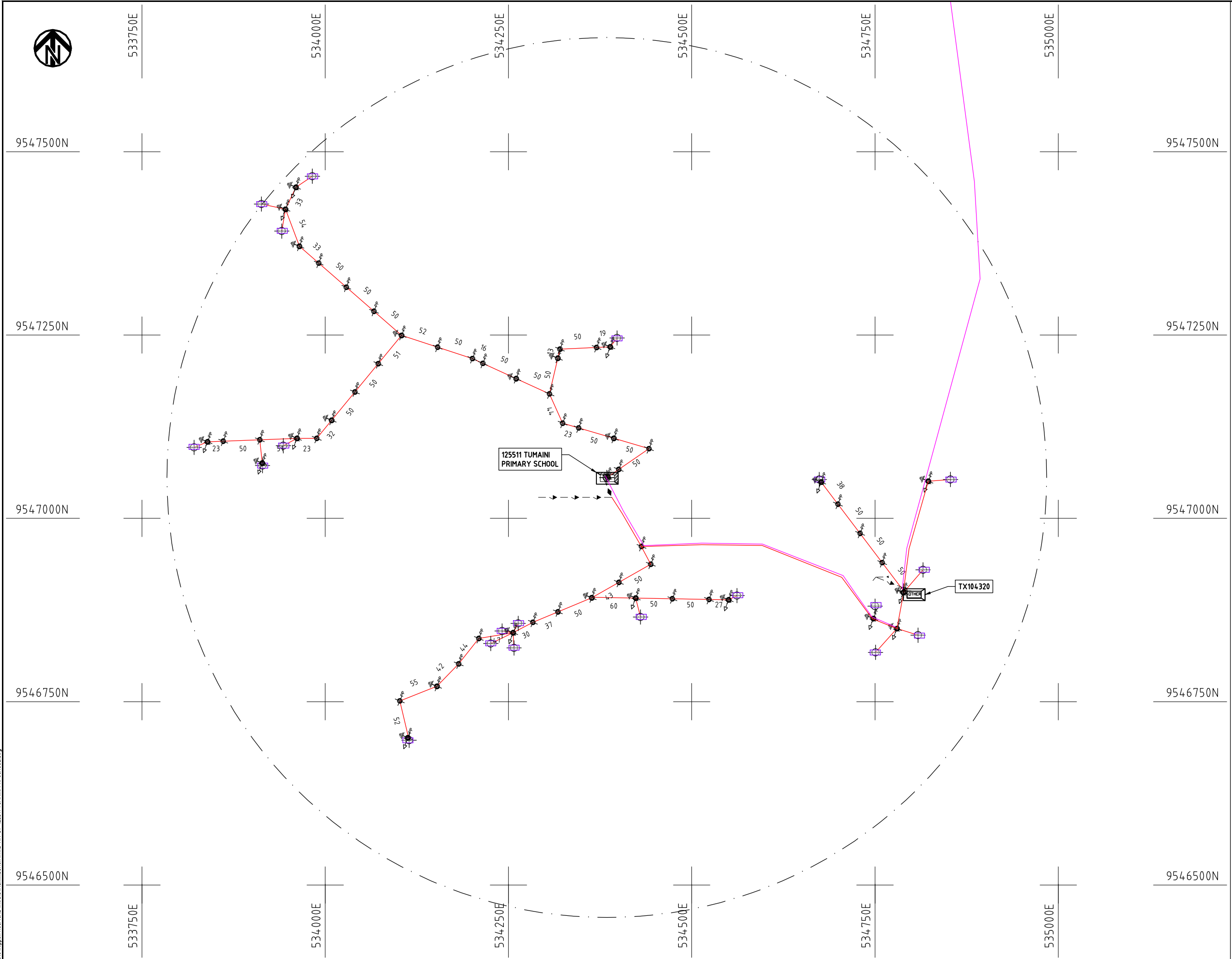
APPROVED BY

Y.TANAKA

DATE

10th SEP 2018

NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

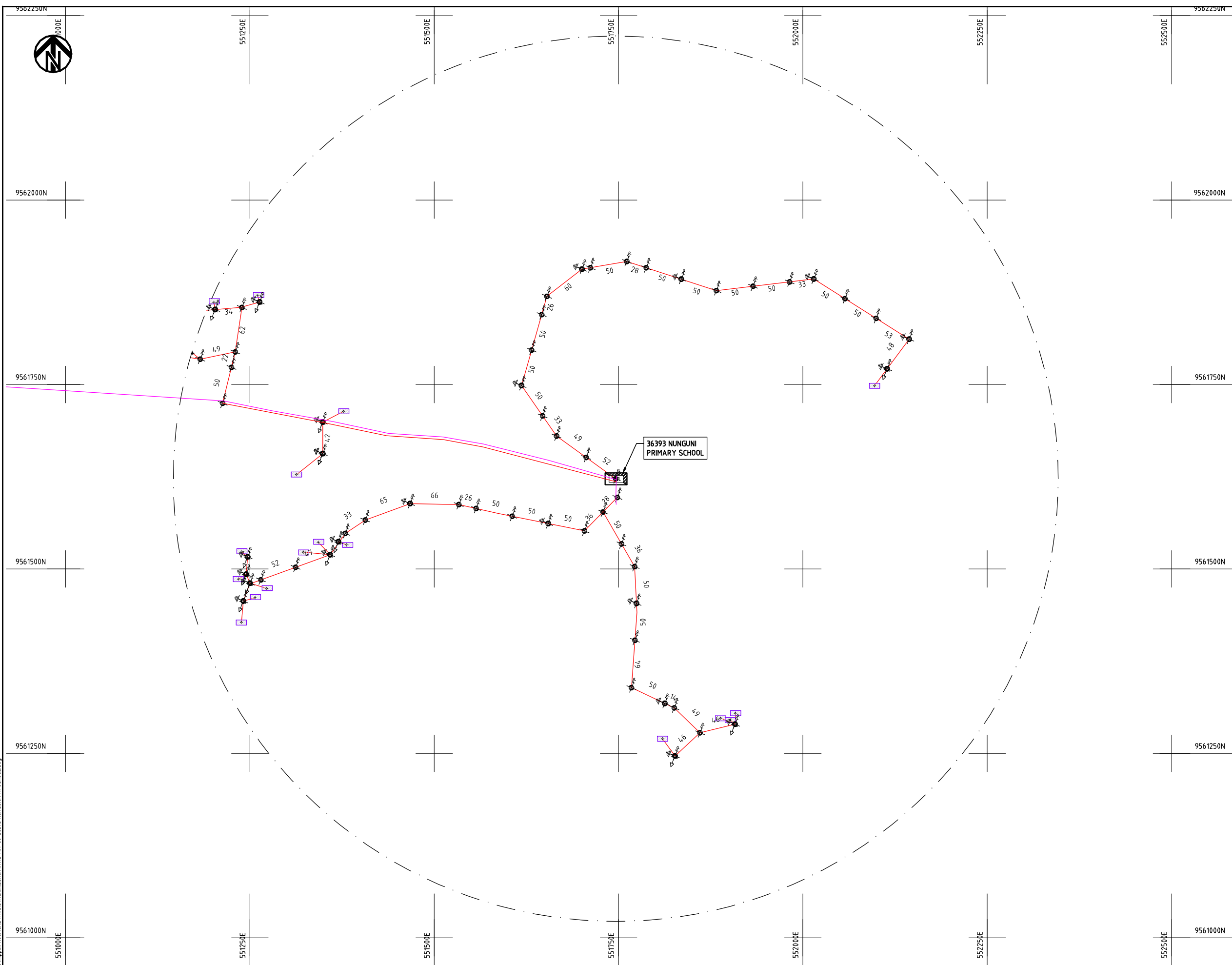
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED 11kV
  - PROPOSED 33kV
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES 12M
  - CONCRETE ELECTRIC POLES 11M
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-59-125511 TUMAINI PRI SCHOOL.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE		KWL-MA-59	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 125511 TUMAINI PRI SCHOOL			DATE	10th SEP 2018





**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-60-36393 NUNGUNI PRI SCHOOL.dwg

PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KWALE  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 36393 NUNGUNI PRI SCH

DRAW. NO.	PREPARED BY	A.AKBAR
KWL-MA-60	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



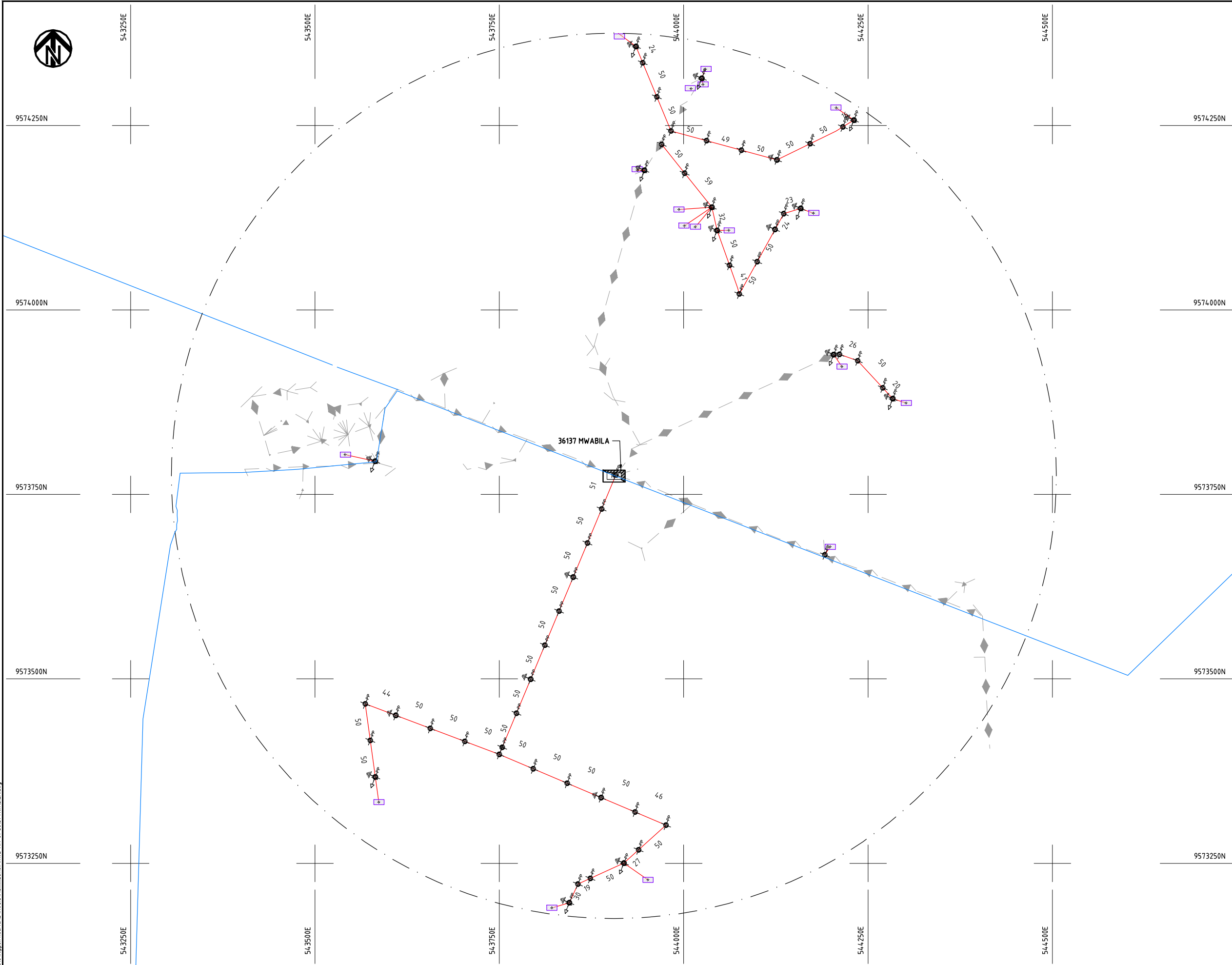


**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-61-36137 MWABILA.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 36137 MWABILA		KWL-MA-61	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





9585250N

513750E

514000E

514250E

514500E

514750E

515000E

515250E

9585250N

9585000N

9585000N

9584750N

9584750N

9584500N

9584500N

9584250N

9584250N

513750E

514000E

514250E

514500E

514750E

515000E

515250E

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: KWALE  
SCHEME: MAXIMIZATION  
PROJECT SITE: 19361 TARU SEC

DRAW. NO.

KWL-MA-63

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

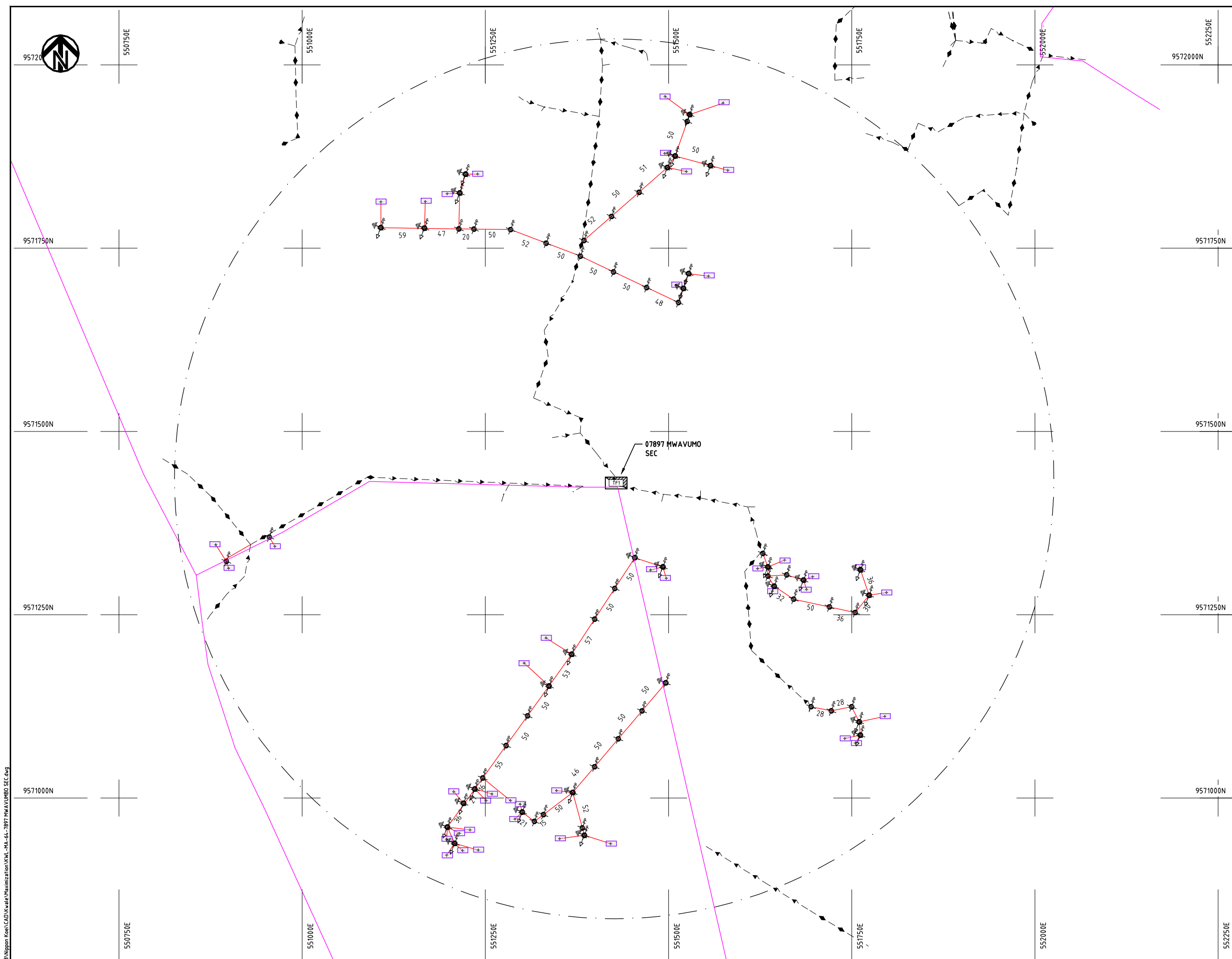
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

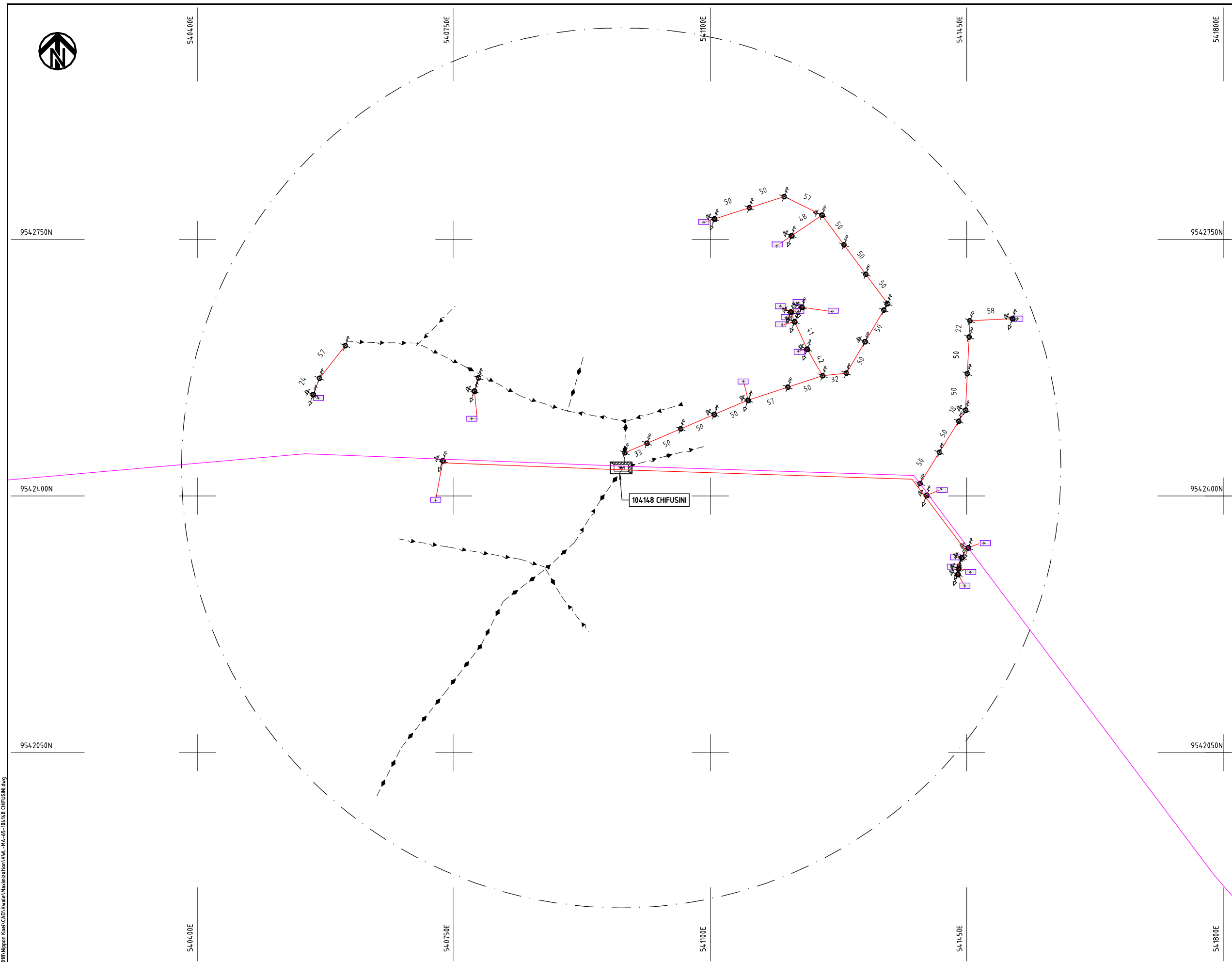
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-64-7897 MWAVUMBO SEC.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE		KWL-MA-64	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 7897 MWAVUMBO SEC			DATE	10th SEP 2018





**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

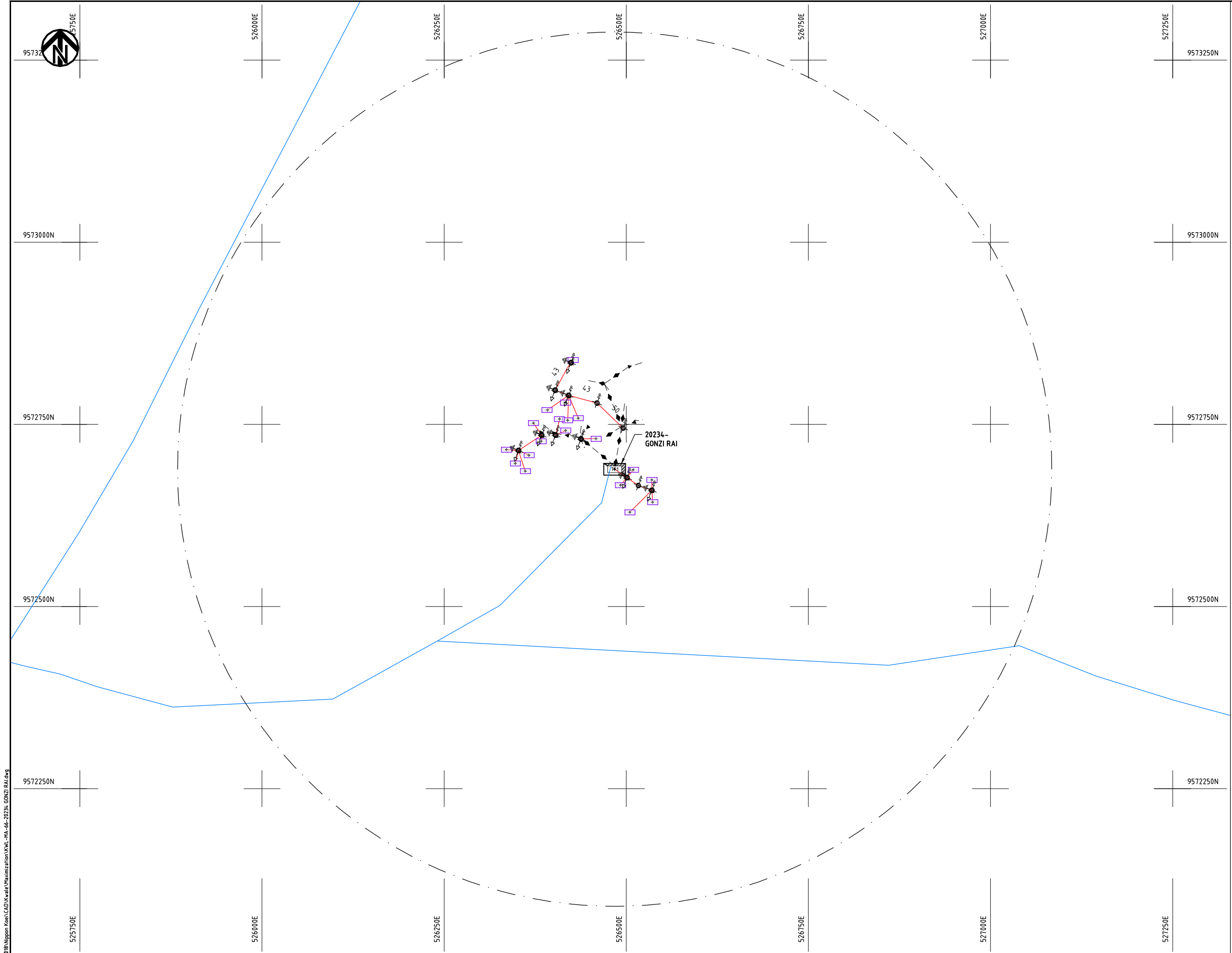


PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 104148 CHIFUSINI		KWL-MA-65	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-65-104148 CHIFUSINI.dwg

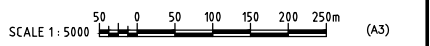




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-66-20234-GONZI RAI.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE		KWL-MA-66	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 20234 GONZI RAI			DATE	10th SEP 2018





9573500N

524500E

524750E

525000E

525250E

525500E

525750E

9573500N

9573250N

9573250N

9573000N

9573000N

9572750N

9572750N

9572500N

9572500N

524500E

524750E

525000E

525250E

525500E

525750E

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



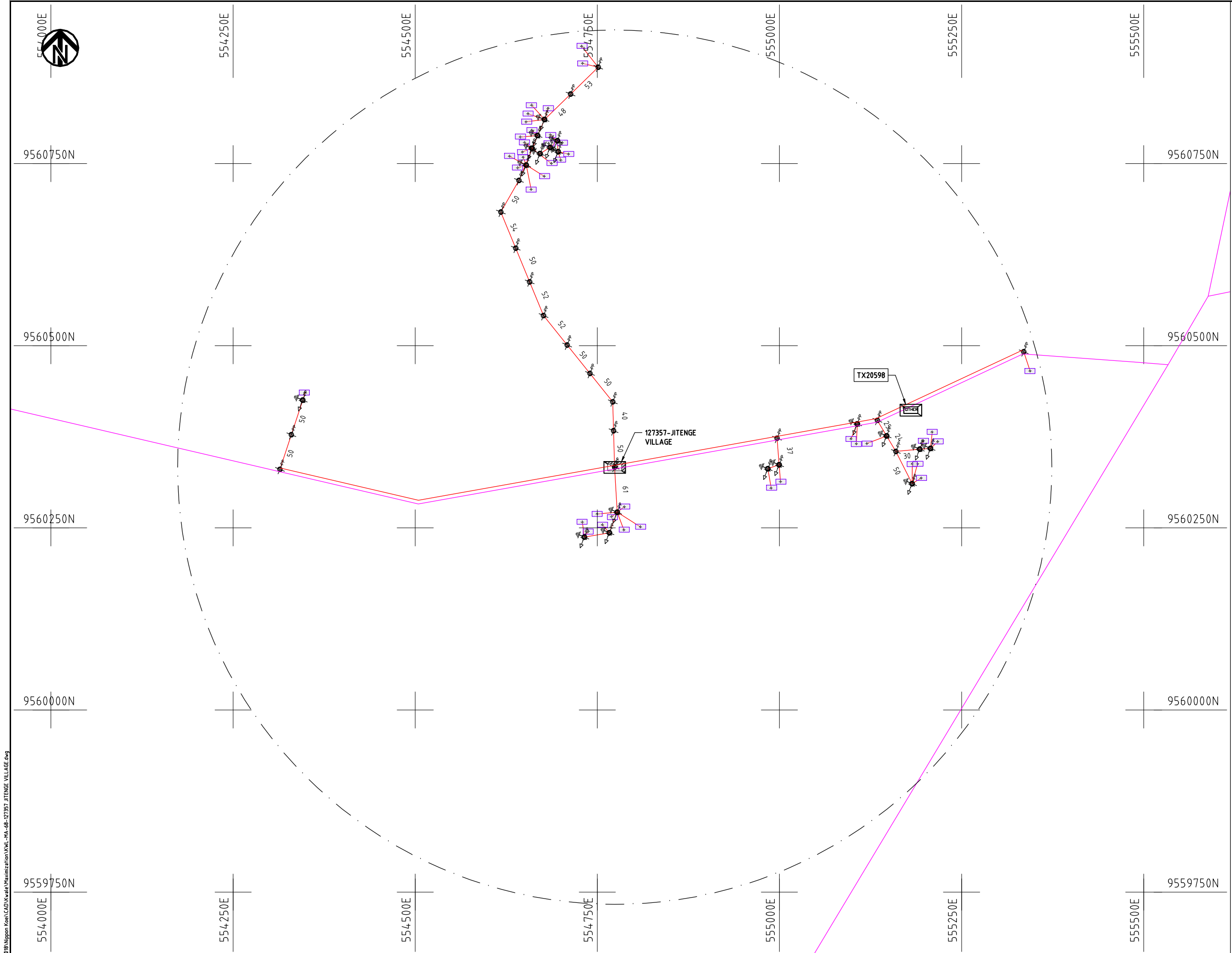
PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KWALE  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 126072 CHIVUNDE

DRAW. NO.	PREPARED BY	A.AKBAR
KWL-MA-67	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



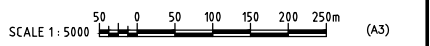
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- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\Kwale\Maximization\KWL-MA-68-127357\_JITENGE VILLAGE.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 127357 JITENGE VILLAGE		KWL-MA-68	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





9540250N

500750E

501000E

501250E

501500E

501750E

502000E

9540000N

9540000N

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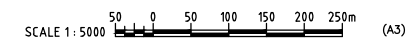
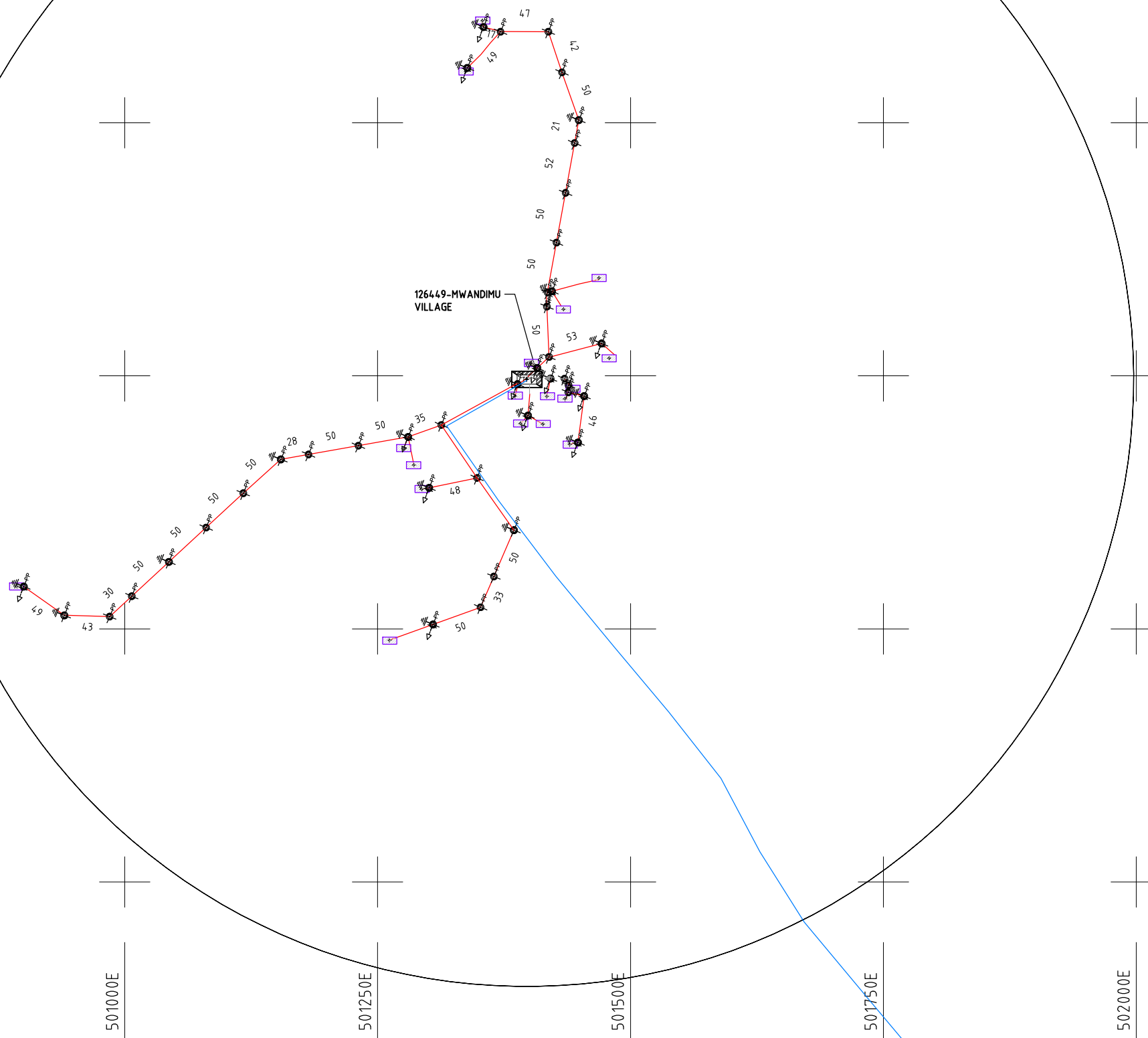
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**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

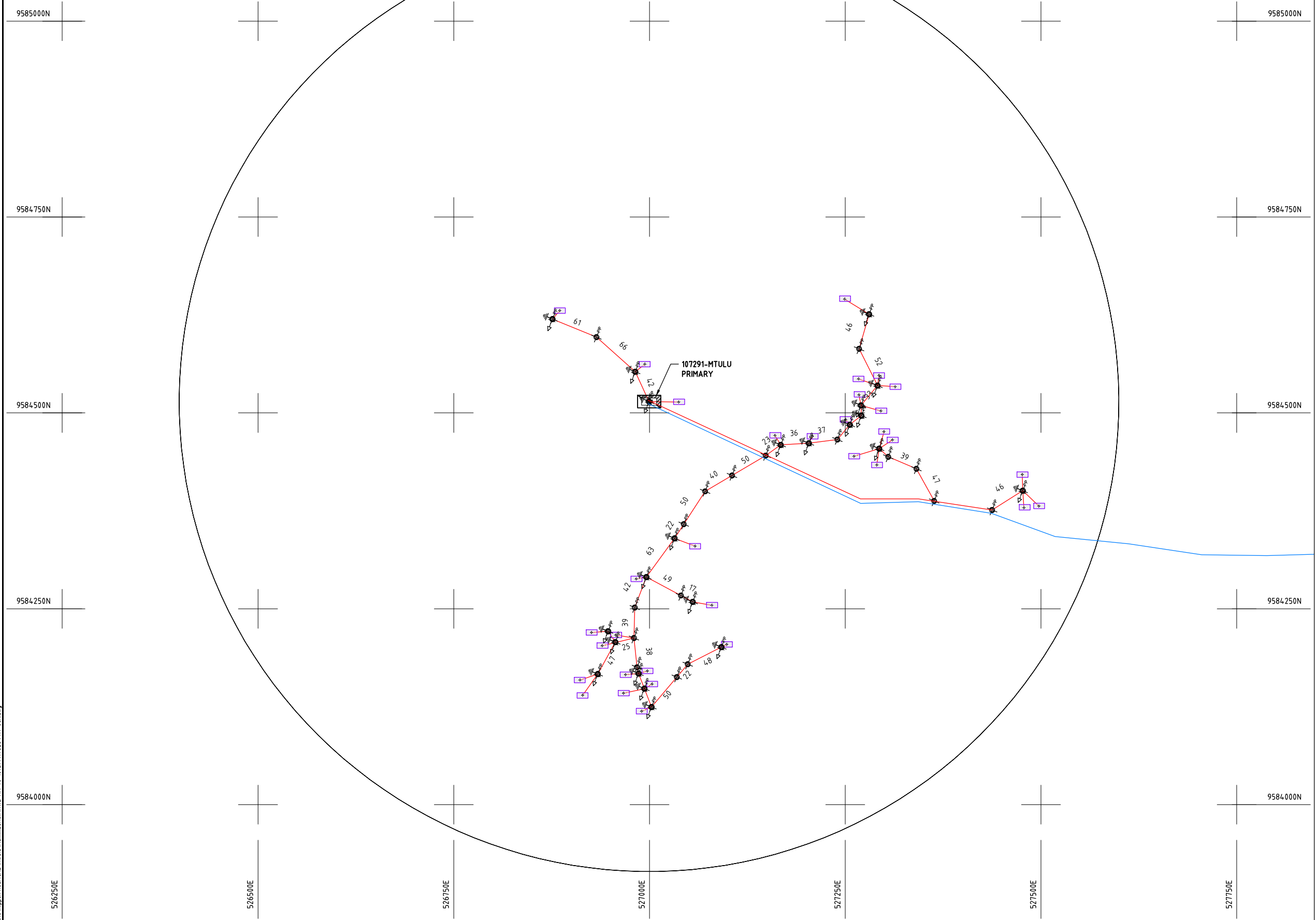
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 126449 MWANDIMU VILLAGE		KWL-MA-69	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018



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 Oct 30, 2018 - 2:28pm



**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



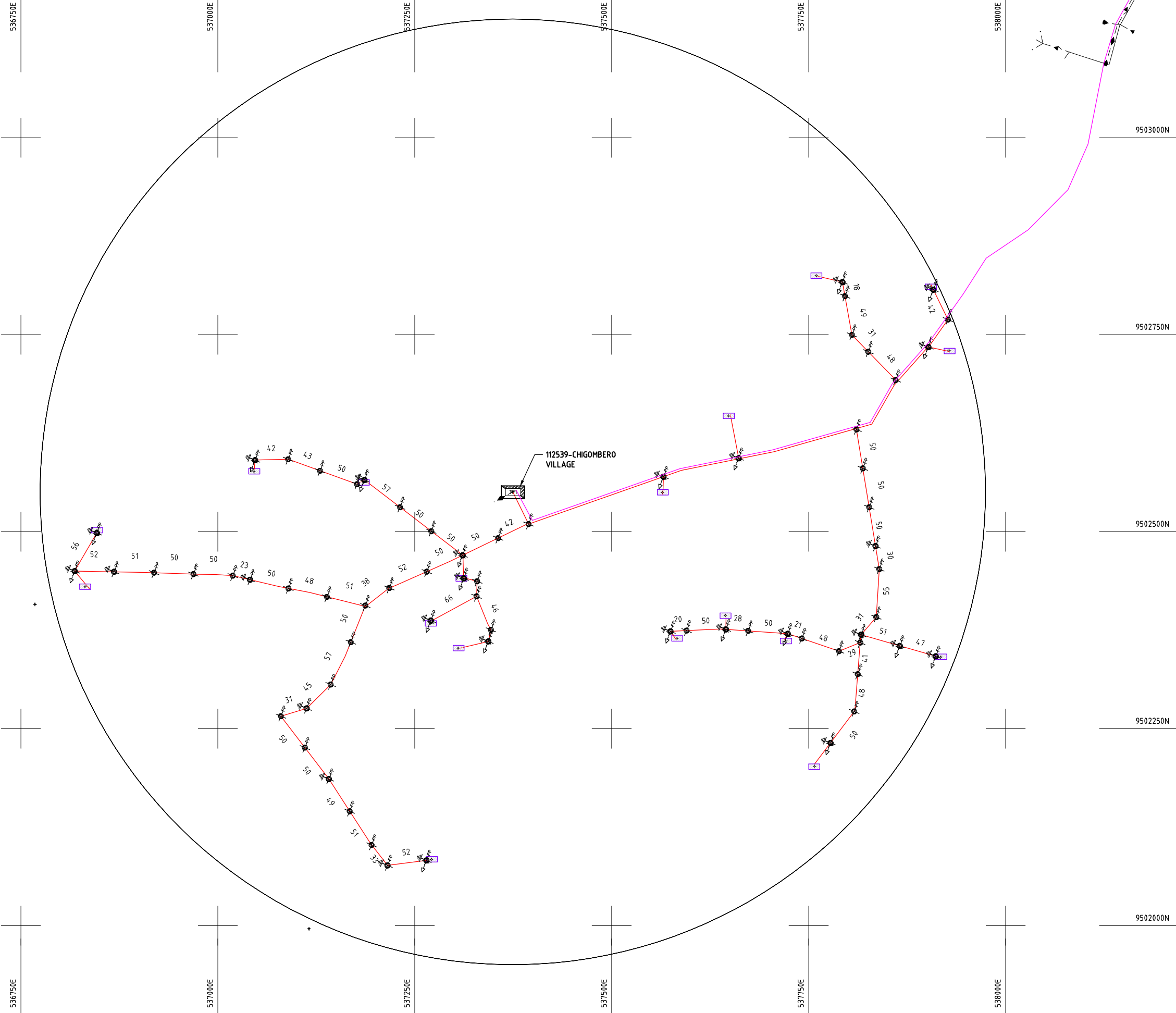
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PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KWALE  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 107291 MUTULU PRI SCH

DRAW. NO.	PREPARED BY	A.AKBAR
KWL-MA-70	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

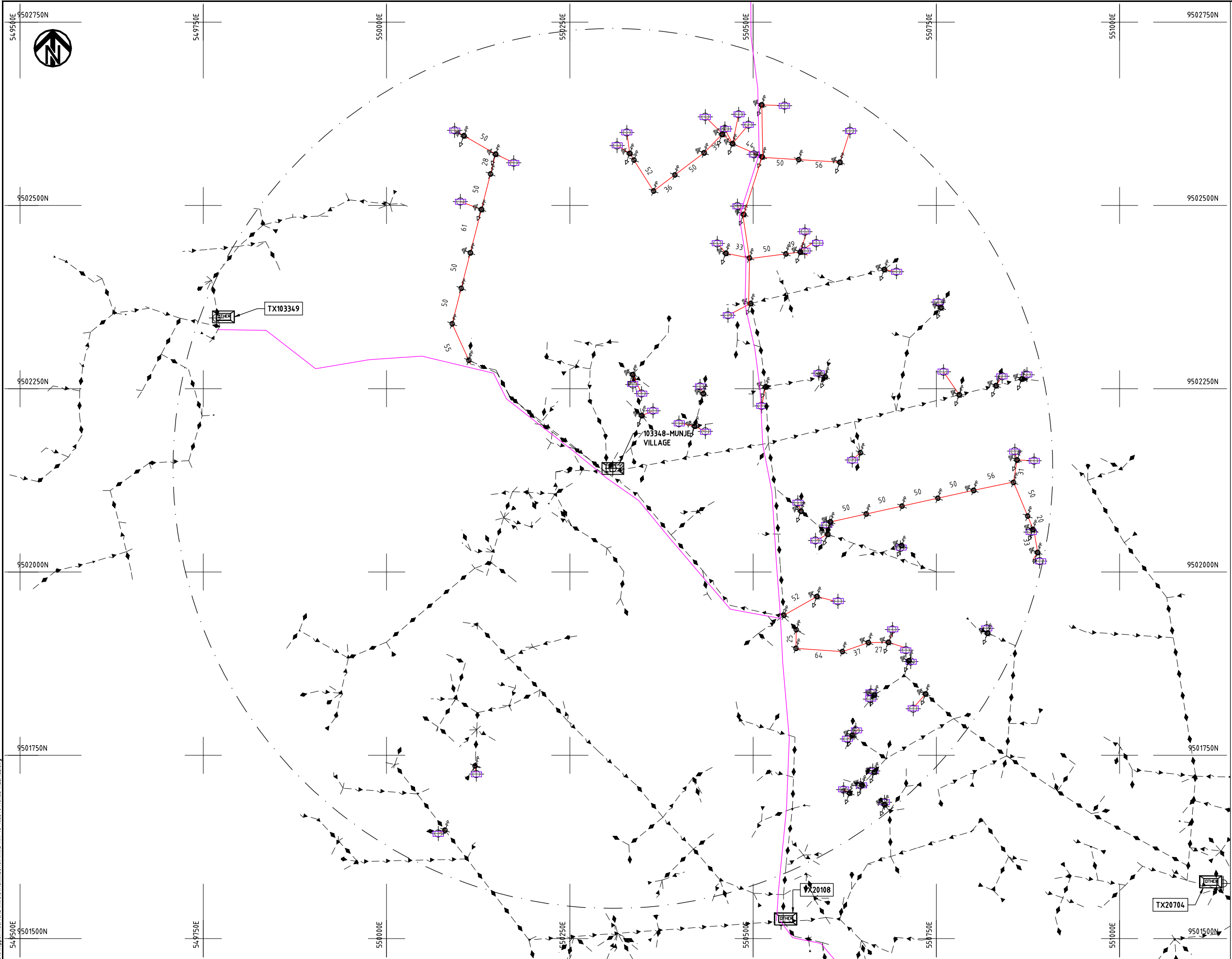
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-72-112539-CHIGOMBERO VILLAGE\_L\_LUNGA KWALE.dwg

PROJECT:	<b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE	DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 112539 CHIGOMBERO VILLAGE L_LUNGA KWALE	KWL-MA-72	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

	HOUSEHOLDS/ BUILDINGS
	PROPOSED 11kV
	PROPOSED 33kV
	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	WOODEN ELECTRIC POLES
	CONCRETE ELECTRIC POLES 12M
	CONCRETE ELECTRIC POLES 11M
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING
	STAY

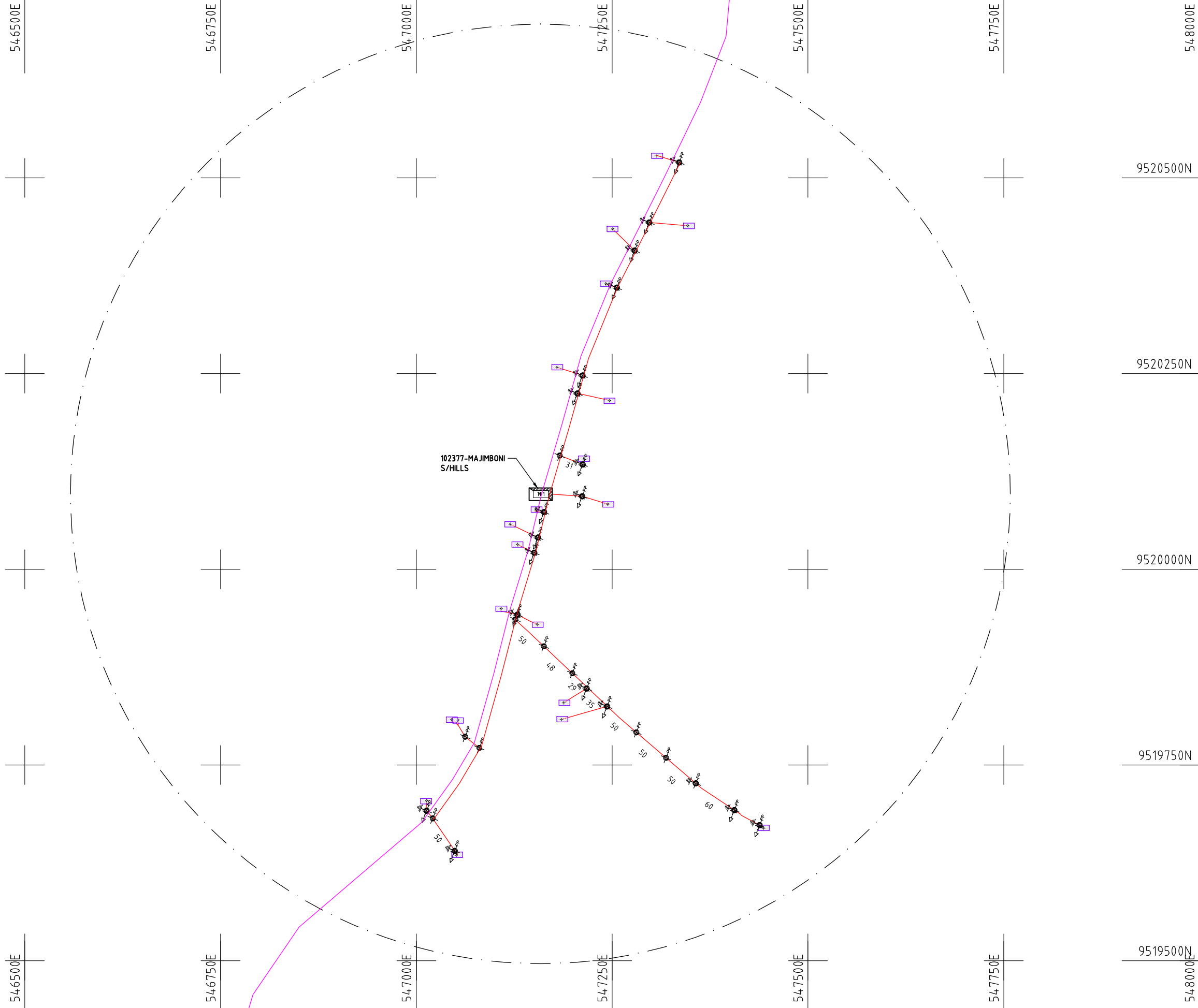


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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE		KWL-MA-73	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 103348 MUNJE VILLAGE			DATE	10th SEP 2018







**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



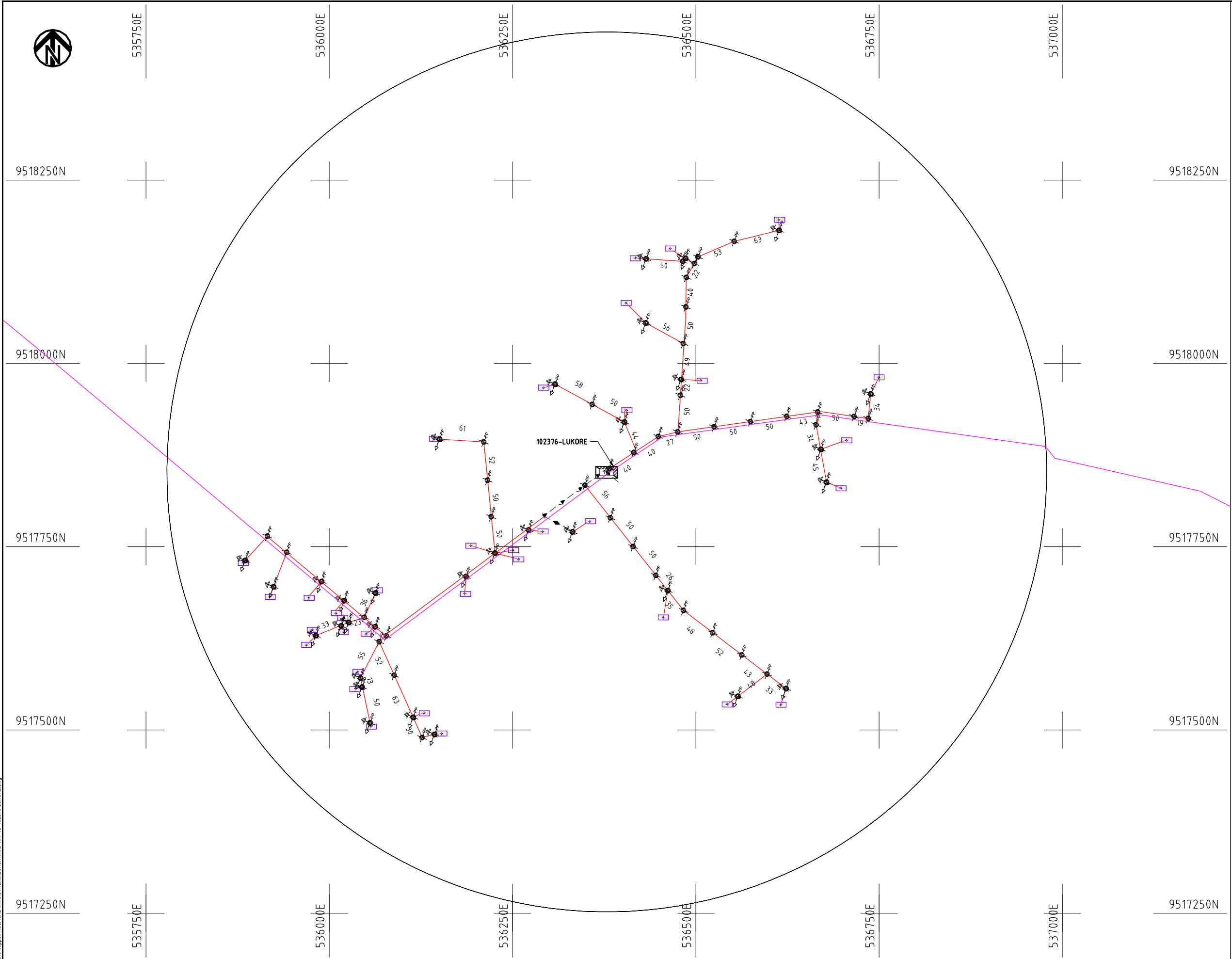
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PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KWALE  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 102377 MAJIMBONI S/HILLS

DRAW. NO.	PREPARED BY	A.AKBAR
KWL-MA-74	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

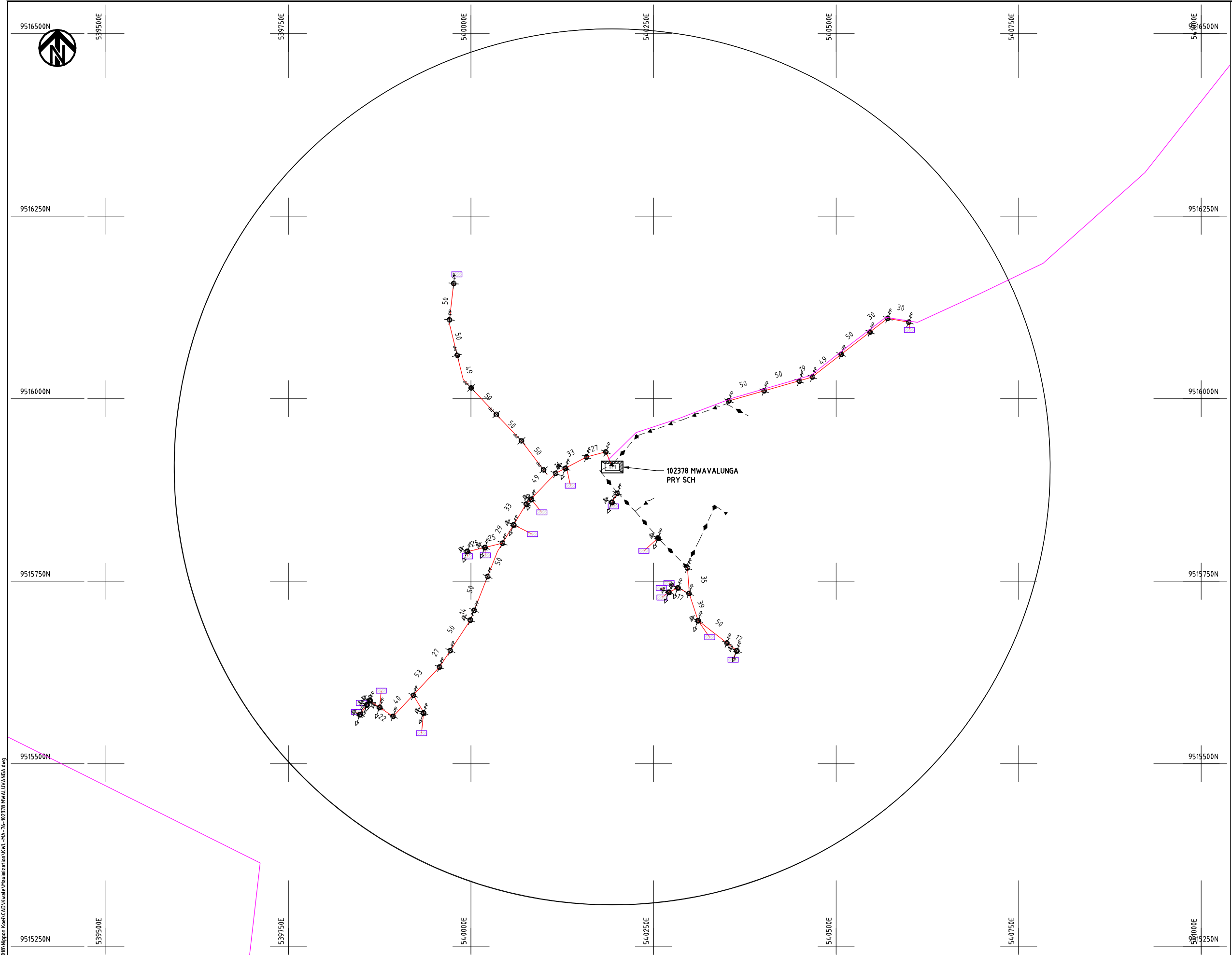
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-75-102376\_LUKORE.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE		KWL-MA-75	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 102376 LUKORE			DATE	10th SEP 2018

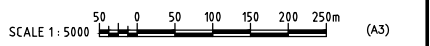




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-76-102378 MWAVALUNGA.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE		KWL-MA-76	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 102378 MWAVALUNGA PRY SCH			DATE	10th SEP 2018





9522500N

54.3500E

54.3750E

54.4000E

54.4250E

54.4500E

54.4750E

9522500N

9522250N

9522250N

9522000N

9522000N

9521750N

9521750N

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9521500N

54.3500E

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54.4000E

54.4250E

54.4500E

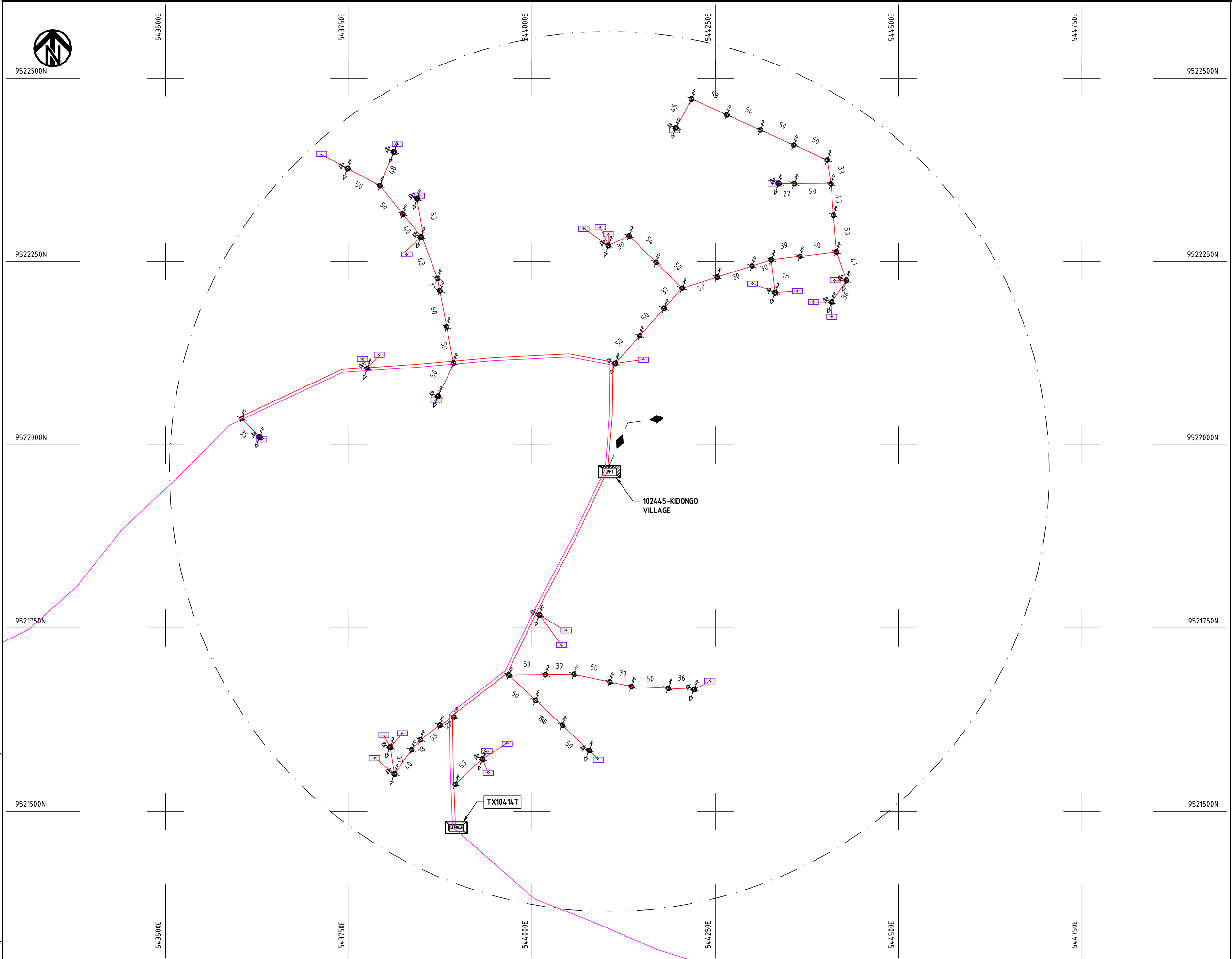
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**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KWALE  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 102445 KIDONGO VILLAGE

DRAW. NO.	PREPARED BY	A.AKBAR
KWL-MA-77	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



Cad File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Kenya\Maximization\KW-MA-77-102445 KIDONGO VILLAGE.dwg



9527500N

9527250N

9527000N

9526750N

9526500N

538500E

538750E

539000E

539250E

539500E

539750E

9527500N

9527250N

9527000N

9526750N

9526500N

538500E

538750E

539000E

539250E

539500E

539750E

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

103639-MWELE VILLAGE-KWALE

TF1

4.4



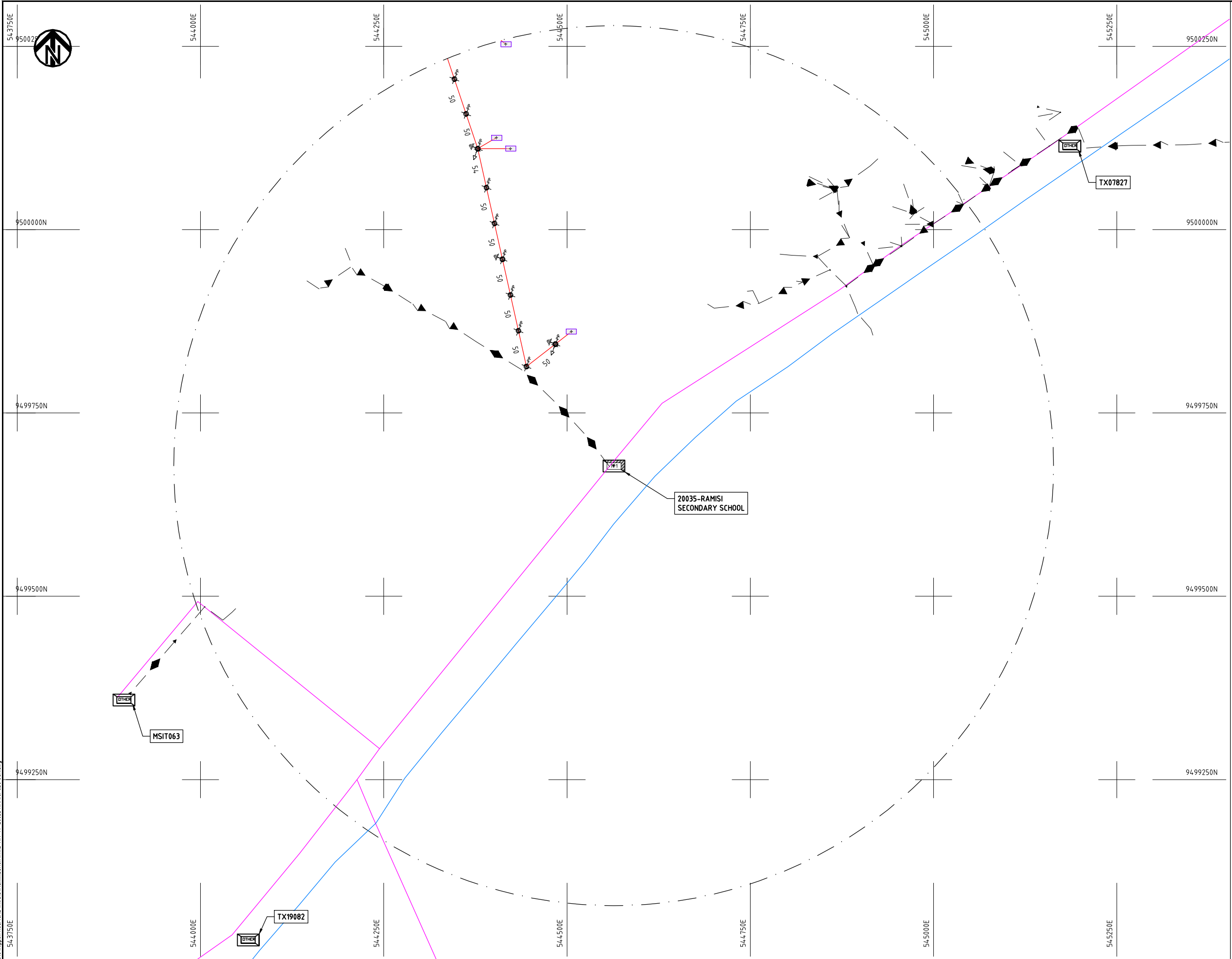
PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KWALE  
 SCHEME: MAXIMIZATION  
 PROJECT SITE: 103639 MWELE VILAGE KWALE

DRAW. NO.	PREPARED BY	A.AKBAR
KWL-MA-78	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018

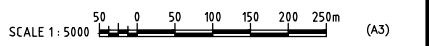


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- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

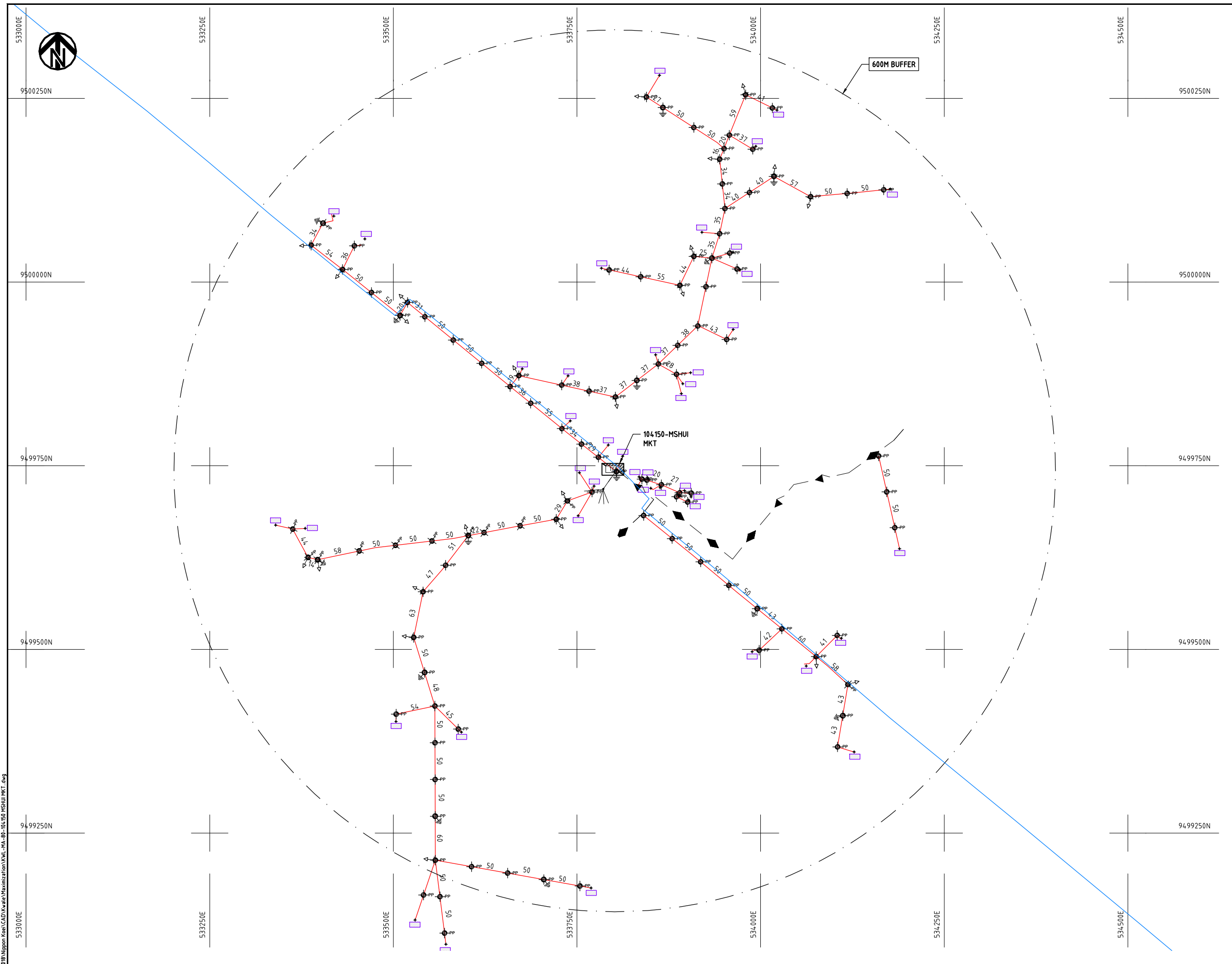
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED 11kV
  - PROPOSED 33kV
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES 12M
  - CONCRETE ELECTRIC POLES 11M
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



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PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 20035 RAMISI SEC SCH		KWL-MA-79	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

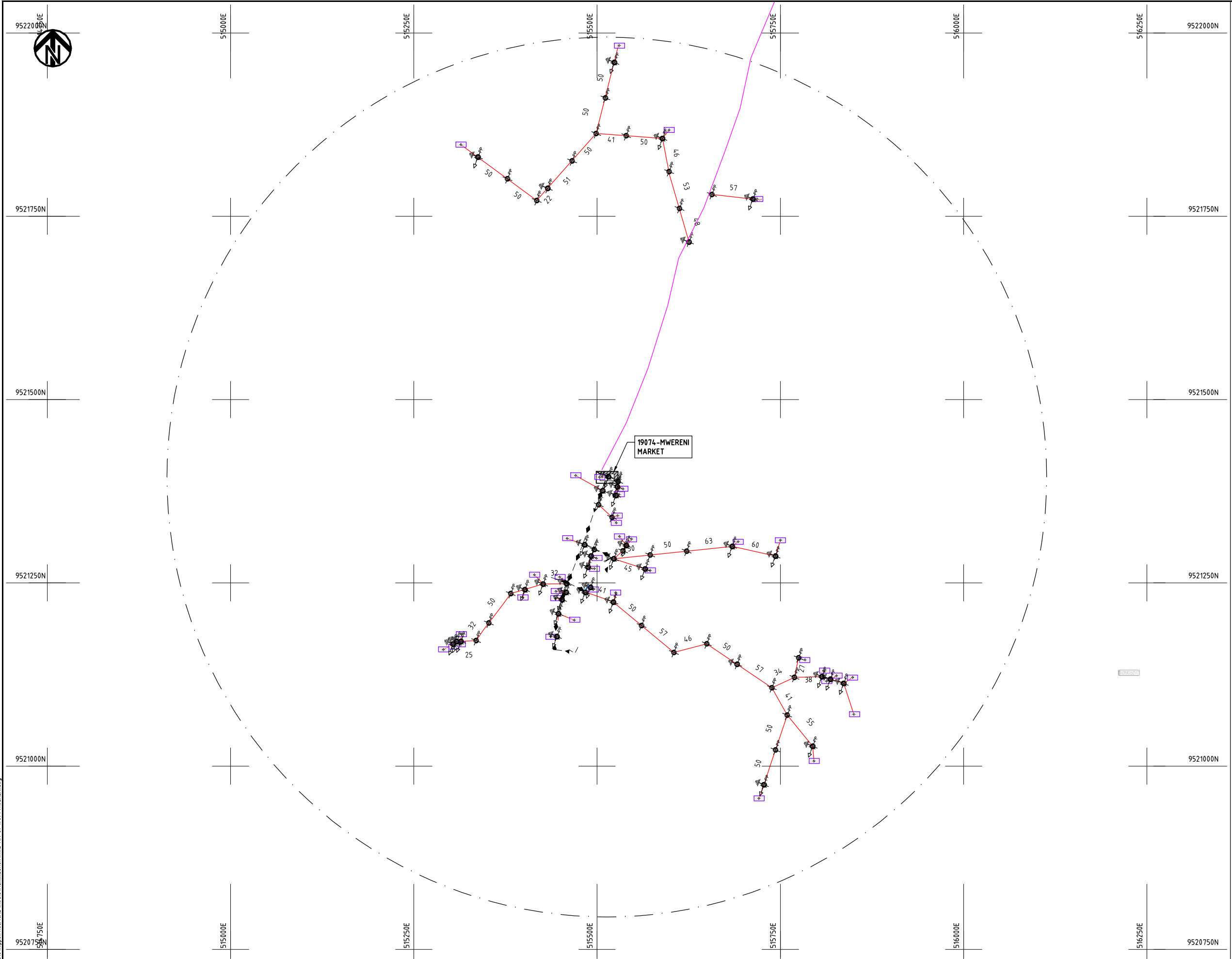


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PROJECT:	<b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	<b>DRAWING TITLE</b>  COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 104150-MSHUI MKT.	DRAW. NO.	PREPARED BY	A.AKBAR
			KWL-MA-80	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018







- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

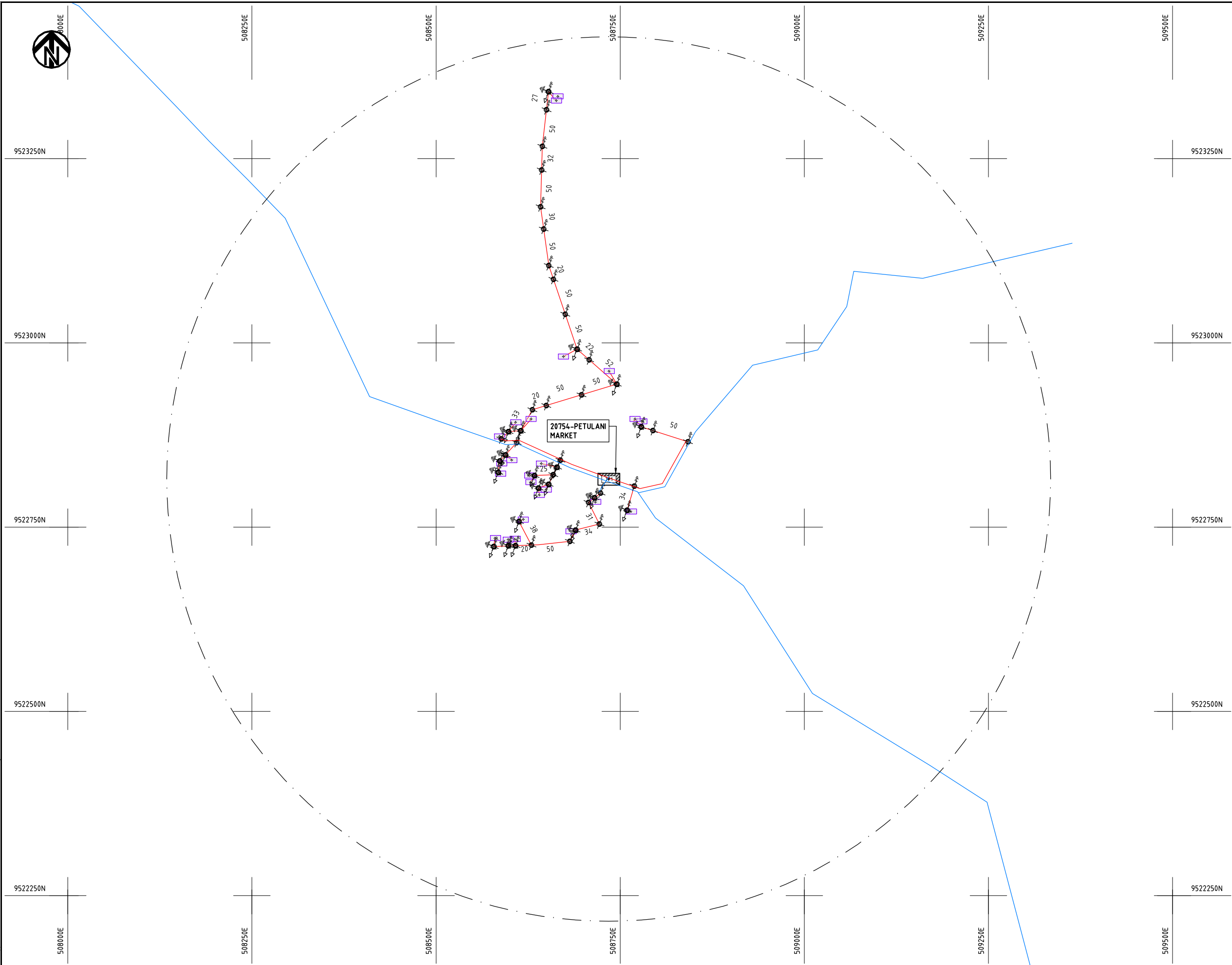
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-81-19074\_MWERENI.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE <b>COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 19074 MWERENI</b>		DRAW. NO.	PREPARED BY	A.AKBAR
			KWL-MA-81	CHECKED BY	S.MAETA
			APPROVED BY	Y.TANAKA	
			DATE	10th SEP 2018	





**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

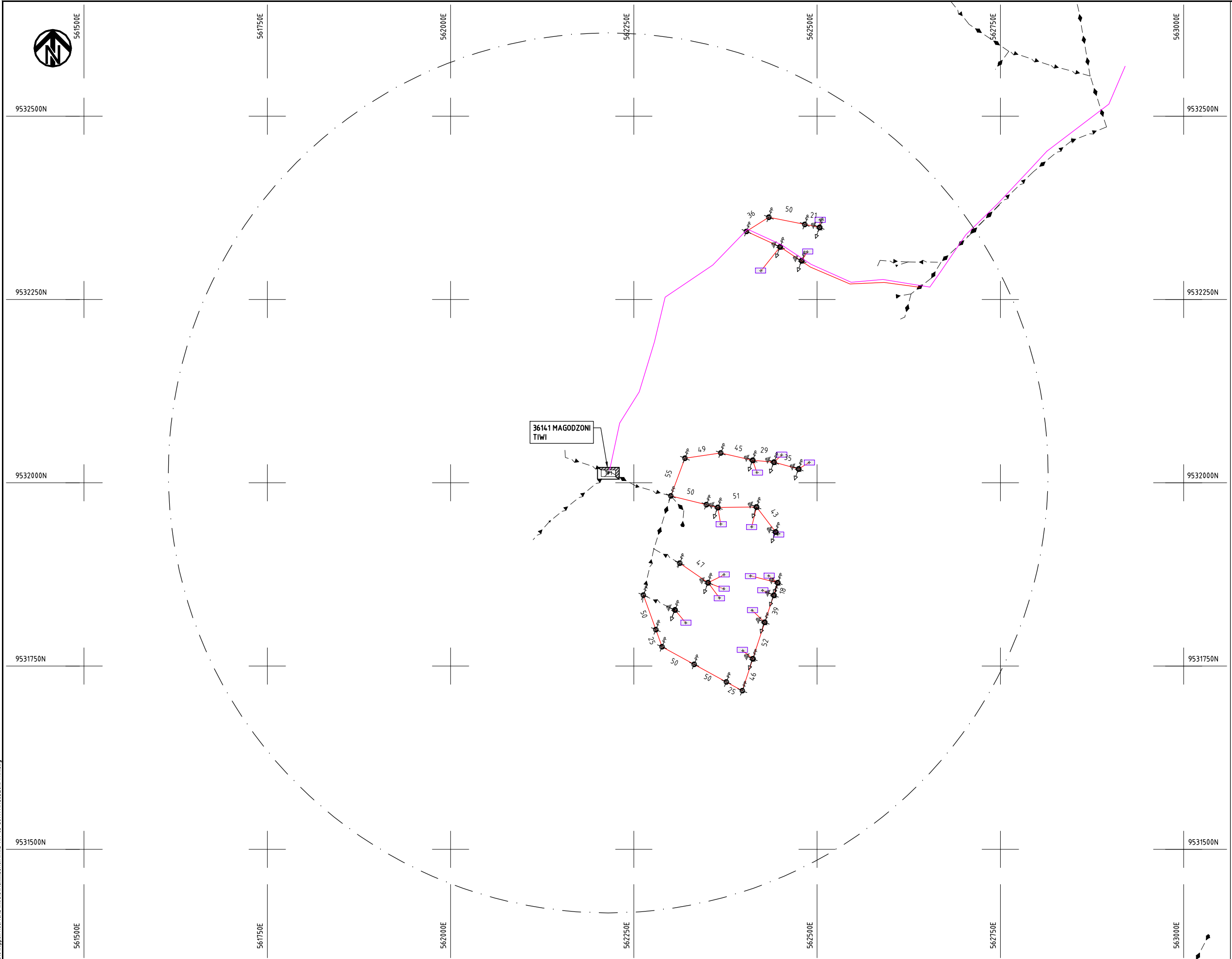
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-82-20754-PETULANI MARKET.dwg

PROJECT:	<b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE	DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 20754 PETULANI MARKET	KWL-MA-82	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-83-36141 MAGODZONI TIWI.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 36141 MAGODZONI TIWI		KWL-MA-83	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





9535000N

524000E

524250E

524500E

524750E

525000E

525250E

9535000N

9534750N

9534750N

9534500N

9534500N

9534250N

9534250N

9534000N

9534000N

524000E

524250E

524500E

524750E

525000E

525250E

124549-BUMBANI  
PRIMARY  
SCHOOL

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

**LEGEND**

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: KWALE  
SCHEME: MAXIMIZATION  
PROJECT SITE: 124549 BUMBANI UKUNDA

DRAW. NO.

KWL-MA-84

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

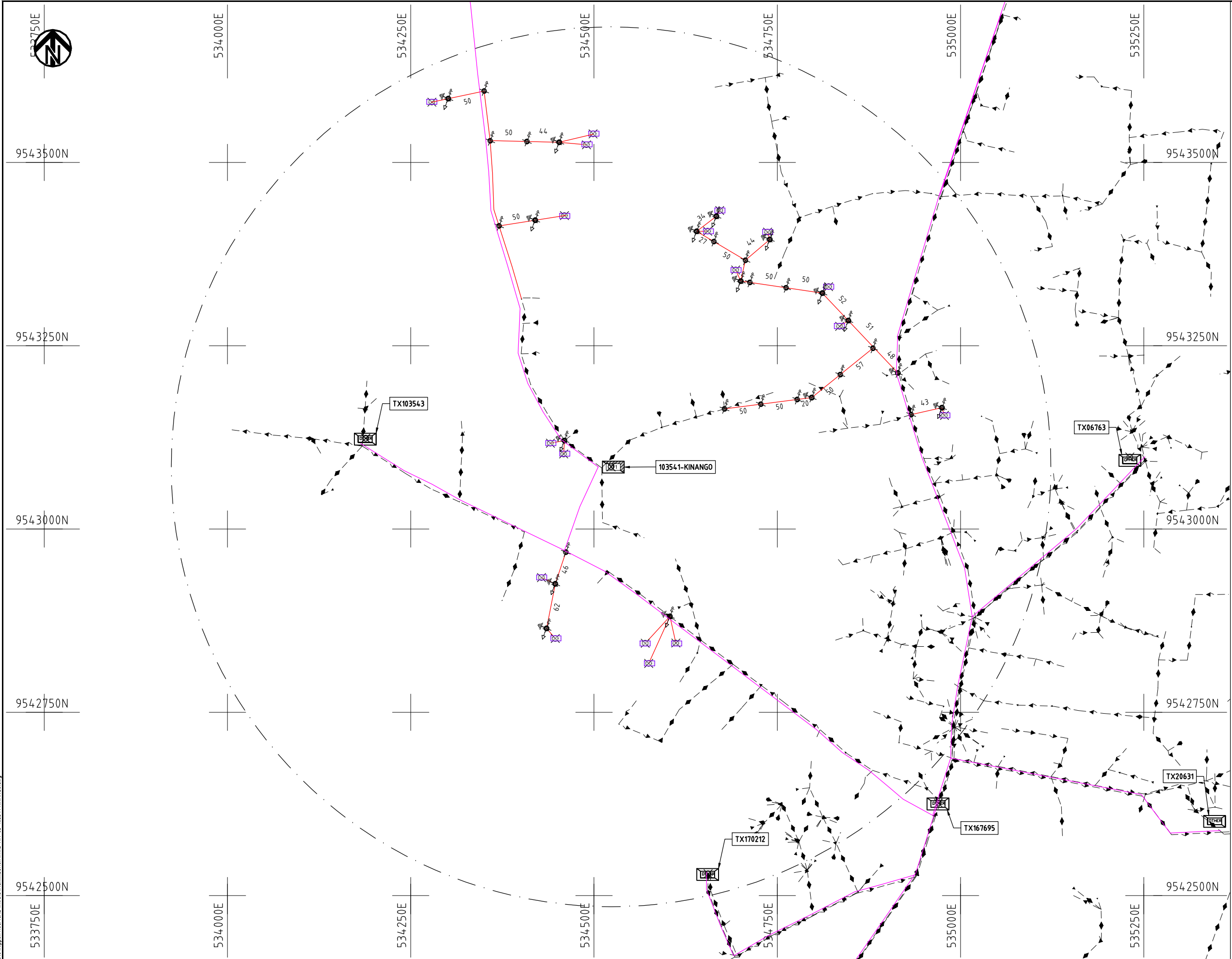
APPROVED BY

Y.TANAKA

DATE

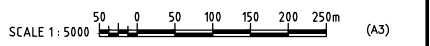
10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

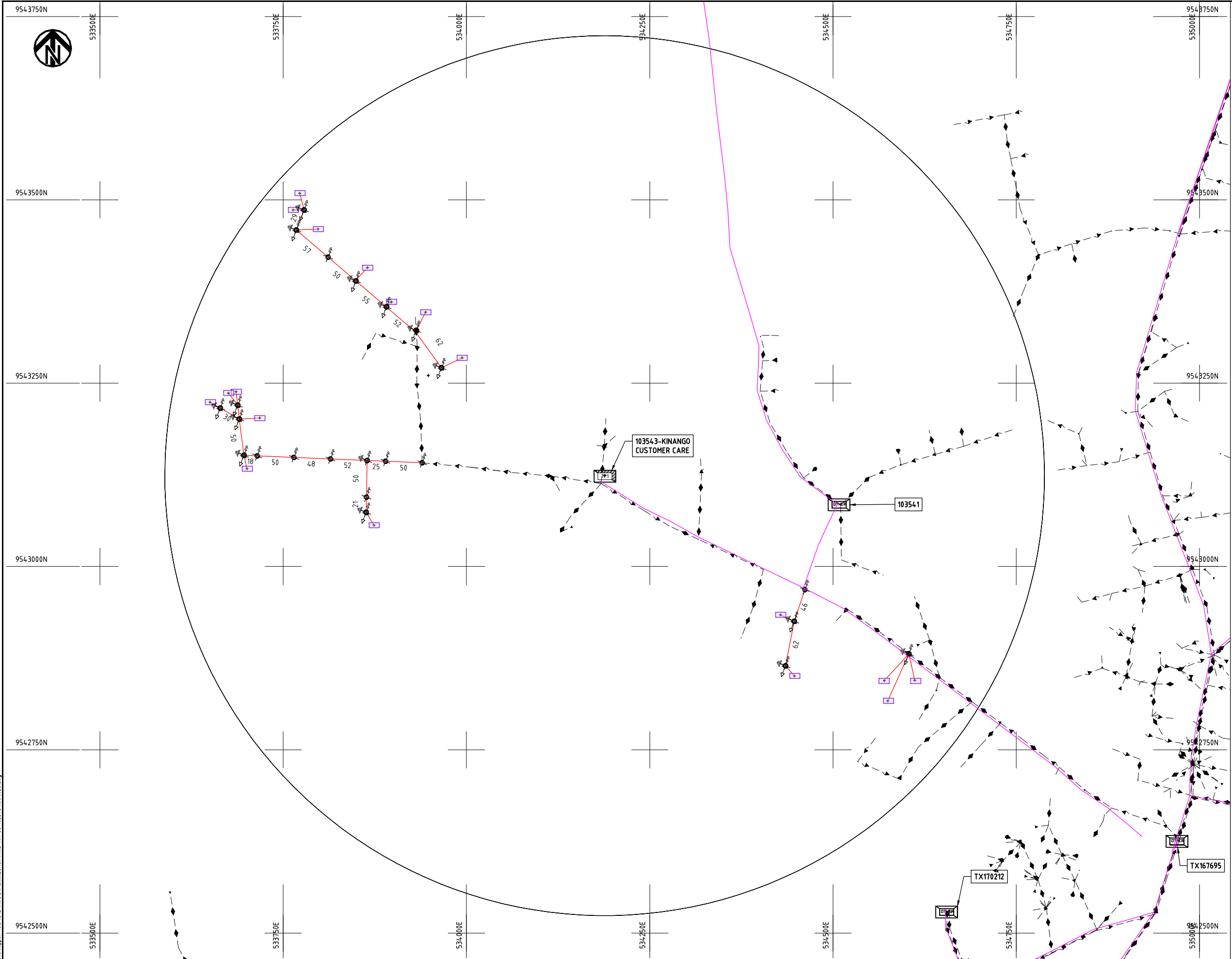
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-85-103541 KINANGO.dwg

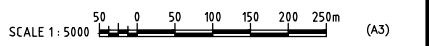
PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE		KWL-MA-85	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 103541 KINANGO			DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

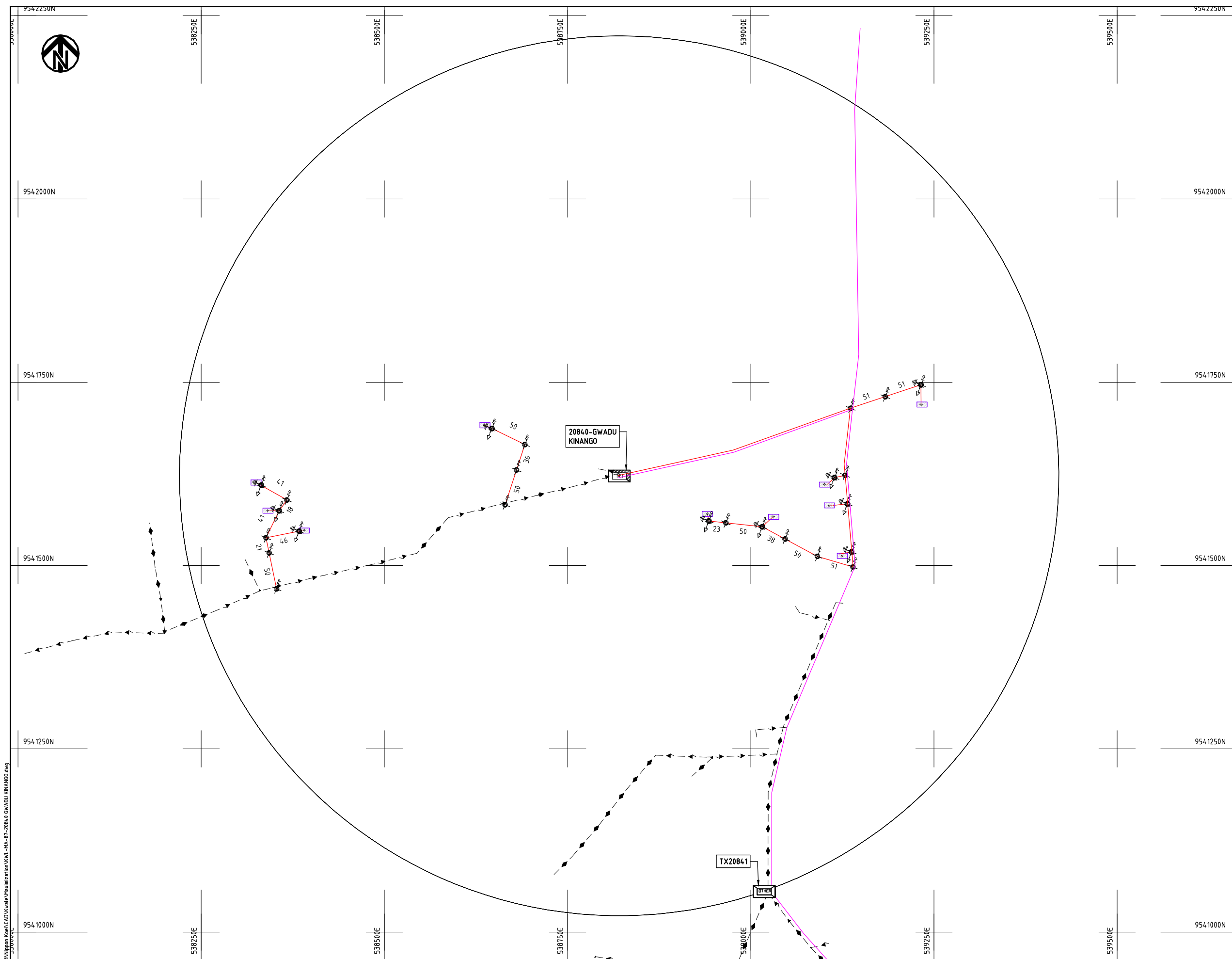
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - PP WOODEN ELECTRIC POLES
  - CP CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-86-103543 KINANGO.dwg

PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE		KWL-MA-86	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 103543 KINANGO			DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
  5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
  - PROPOSED DISTRIBUTION LINE
  - EXISTING 11kV LINE
  - EXISTING 33kV LINE
  - EXISTING DISTRIBUTION LINE
  - MAXIMISATION TRANSFORMER
  - EXTENSION TRANSFORMER
  - OTHER EXISTING TRANSFORMER
  - WOODEN ELECTRIC POLES
  - CONCRETE ELECTRIC POLES
  - LV-EARTH
  - PME -PROTECTIVE MULTIPLE EARTHING
  - STAY



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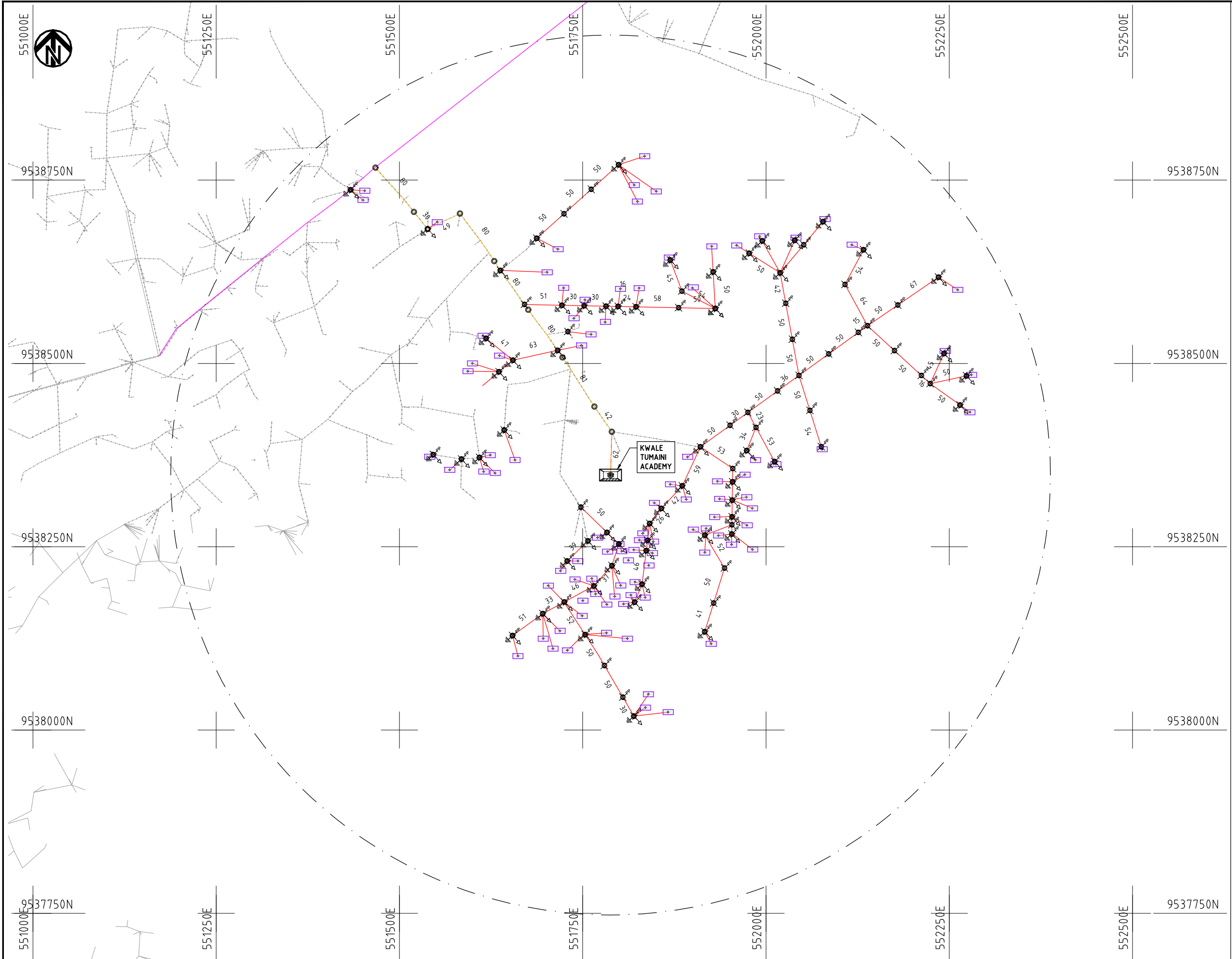
PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE <b>COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 2084.0 GWADU KINANGO</b>		DRAW. NO.	PREPARED BY	A.AKBAR
			KWL-MA-87	CHECKED BY	S.MAETA
			APPROVED BY	Y.TANAKA	
			DATE	10th SEP 2018	





***Kwale County***

***Extension and Maximization***



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: EXTENSION PROJECT SITE: KWALE TUMAINI ACADEMY		KWL-EX-001	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





9580500N

9580250N

9580000N

9579750N

9579500N

528250E

528500E

528750E

529000E

529250E

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9579500N

528250E

528500E

528750E

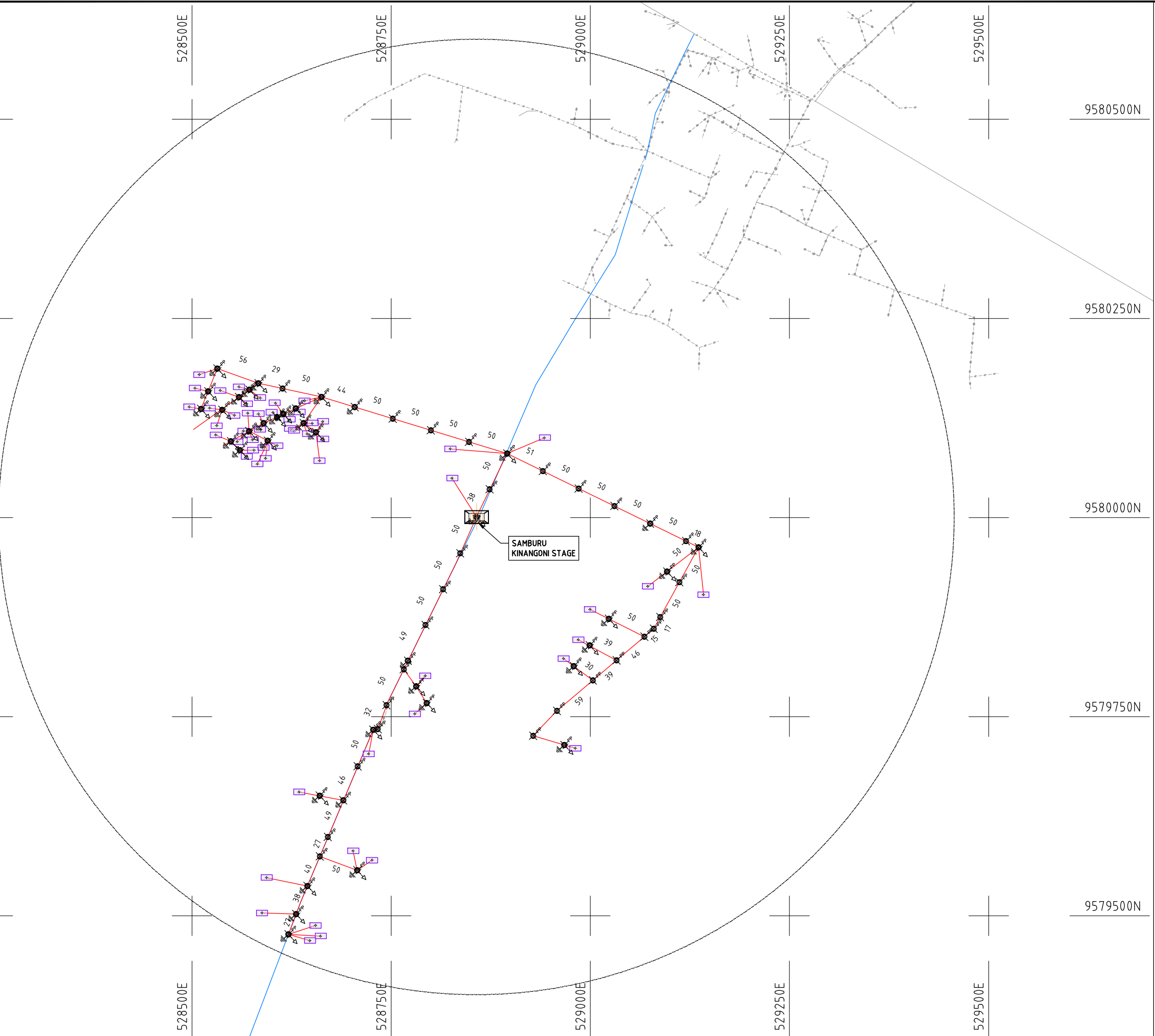
529000E

529250E

529500E

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT:

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: KWALE  
SCHEME: EXTENSION  
PROJECT SITE: SAMBURU KINANGONI STAGE

DRAW. NO.

KWL-EX-002

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

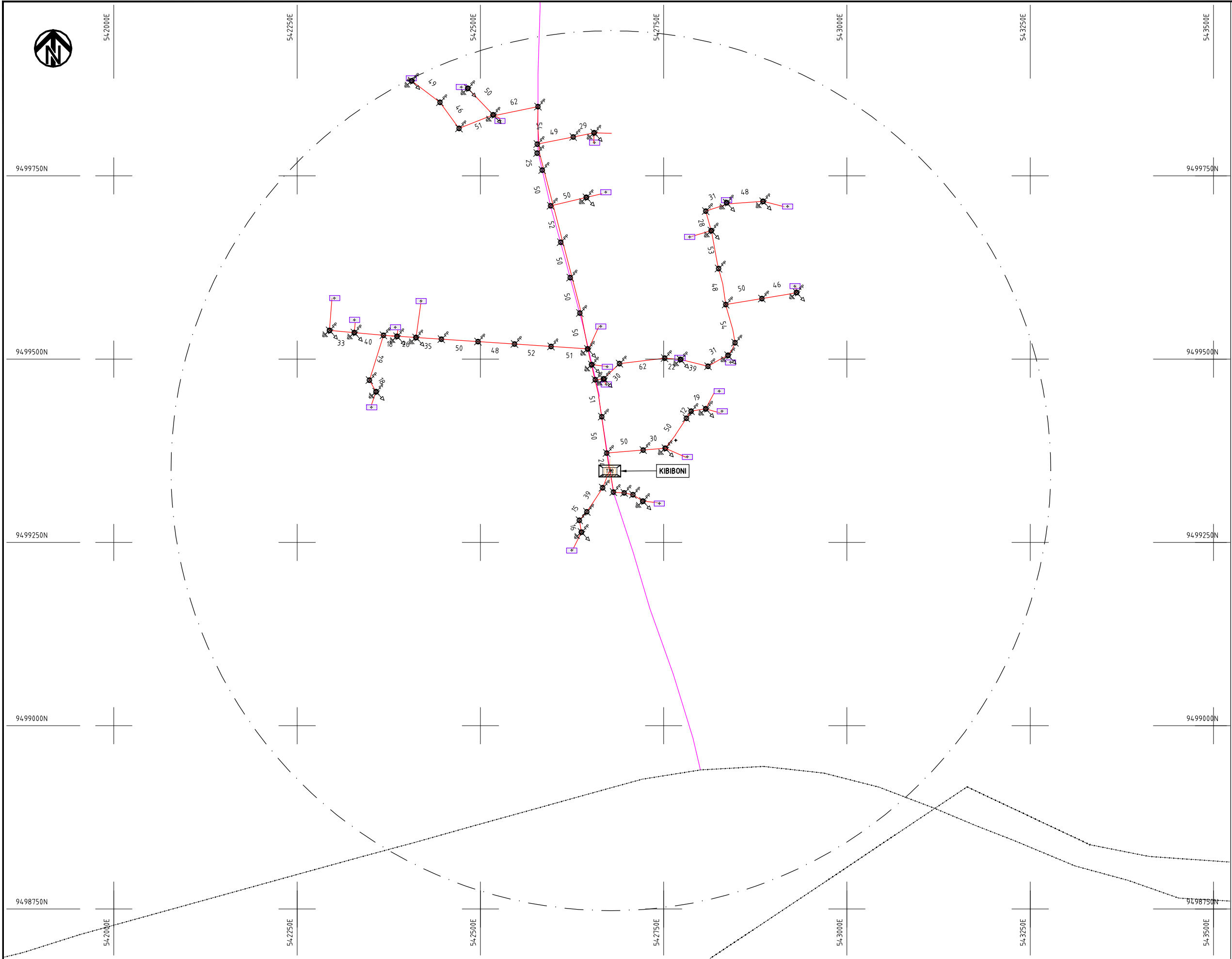
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

	HOUSEHOLDS/ BUILDINGS
	PROPOSED 11kV
	PROPOSED 33kV
	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	WOODEN ELECTRIC POLES
	CP CONCRETE ELECTRIC POLES 12M
	CP CONCRETE ELECTRIC POLES 11M
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	<b>DRAWING TITLE</b>  COUNTY: KWALE SCHEME: EXTENSION PROJECT SITE: KIBIBONI	DRAW. NO.  KWL-EX-003	PREPARED BY A.AKBAR CHECKED BY S.MAETA APPROVED BY Y.TANAKA DATE 10th SEP 2018	
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538250E

538500E

538750E

539000E

539250E

539500E

539750E

9498750N

9498750N

9498500N

9498500N

9498250N

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9497750N

538250E

538500E

538750E

539000E

539250E

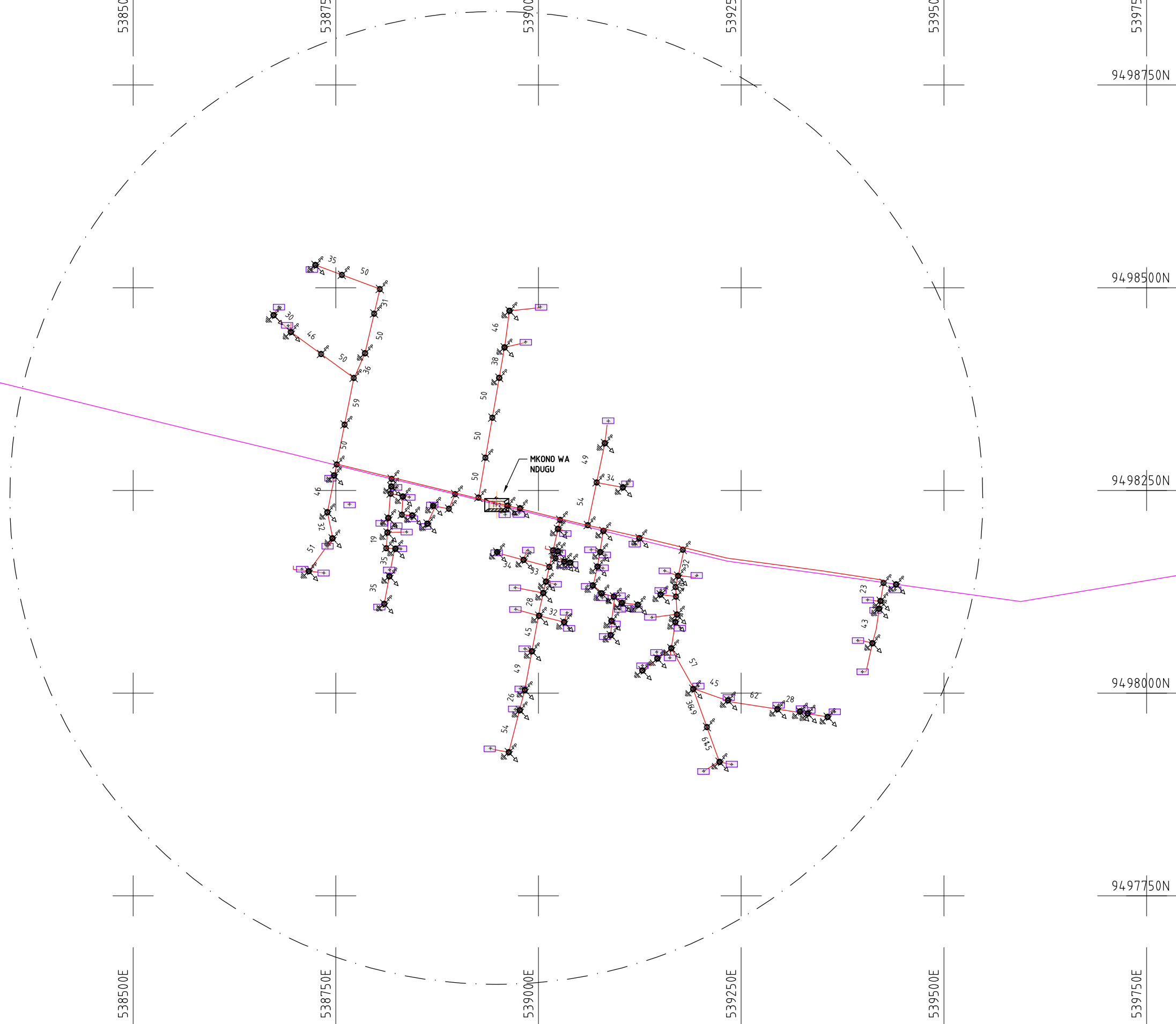
539500E

539750E

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: EXTENSION PROJECT SITE: MKONO WA NDUGU		KWL-EX-004	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





9502750N

9502500N

9502250N

9502000N

9501750N

542000E

542250E

542500E

542750E

543000E

543250E

123364

542000E

542250E

542500E

542750E

543000E

543250E

PROJECT:

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: KWALE  
SCHEME: EXTENSION  
PROJECT SITE: NIKAPHU VILLAGE

DRAW. NO.

KWL-EX-005

PREPARED BY

CHECKED BY

APPROVED BY

DATE

A.AKBAR

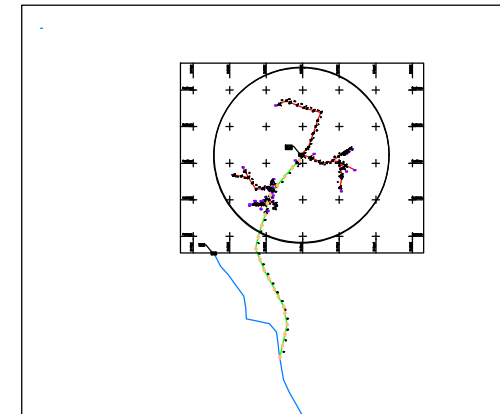
S.MAETA

Y.TANAKA

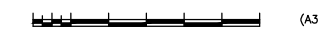
10th SEP 2018

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



(A3)

NIPPON KOEI CO., LTD



536250E

536500E

536750E

537000E

537250E

537500E

537750E

9499250N

9499250N

9499000N

9499000N

9498750N

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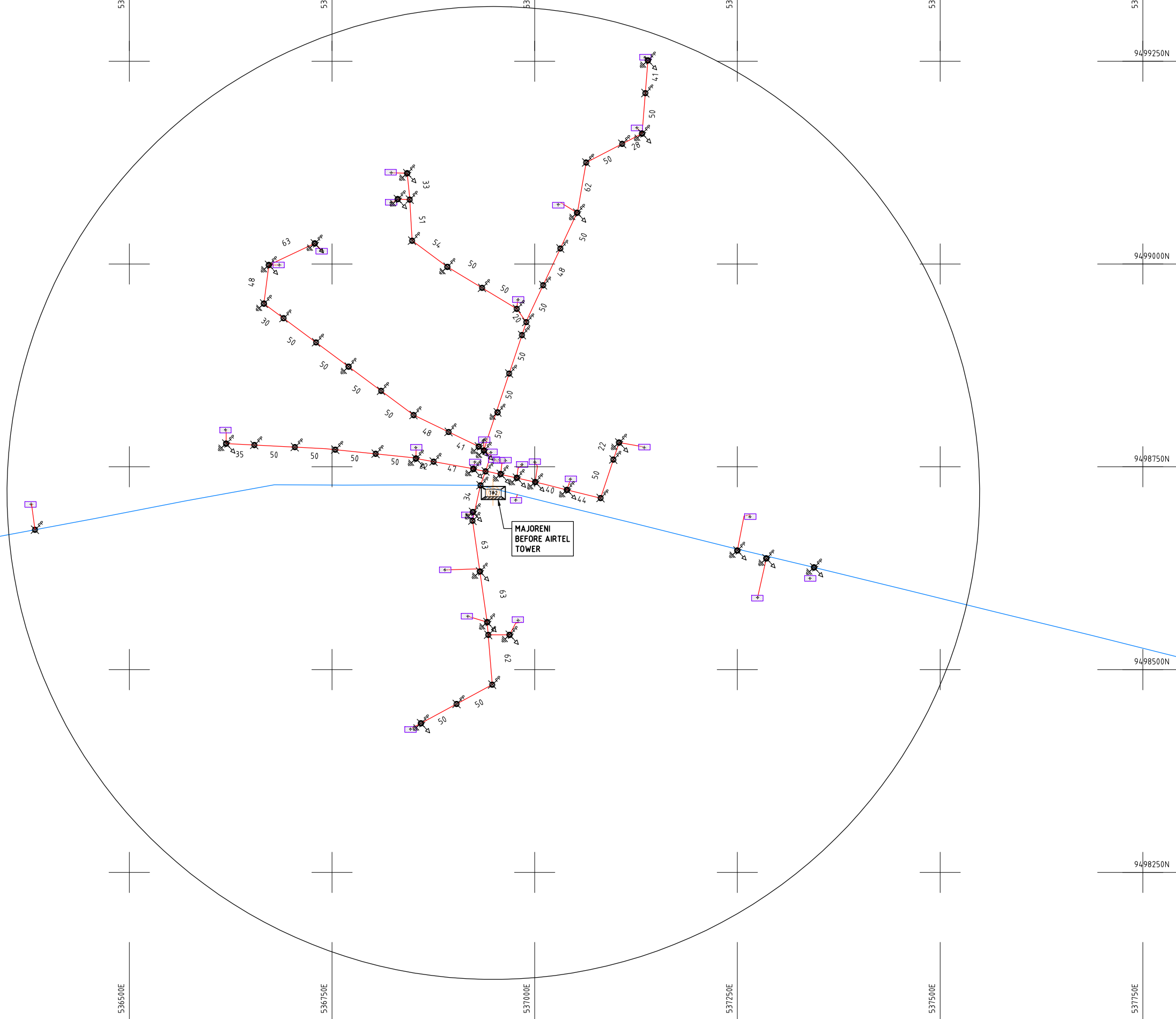
537250E

537500E

537750E

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT:  
**THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE  
 COUNTY: KWALE  
 SCHEME: EXTENSION  
 PROJECT SITE: MAJORENI BEFORE AIRTEL TOWER

DRAW. NO.	PREPARED BY	A.AKBAR
KWL-EX-006	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018







9544250N

566750E

567000E

567250E

567500E

567750E

568000E

9544000N

9544000N

9543750N

9543750N

9543500N

9543500N

9543250N

9543250N

566500E

566750E

567000E

567250E

567500E

567750E

568000E

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

Scale bar and (A3) label.

PROJECT:

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: KWALE  
SCHEME: EXTENSION  
PROJECT SITE: KITEJE BOMBO VILLAGE

DRAW. NO.

KWL-EX-007

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD

9537250N

9537250N

521000E



521250E

521500E

521750E

522000E

522250E

522500E

9537000N

9537000N

9536750N

9536750N

9536500N

9536500N

9536250N

9536250N

9536000N

9536000N

521250E

521500E

521750E

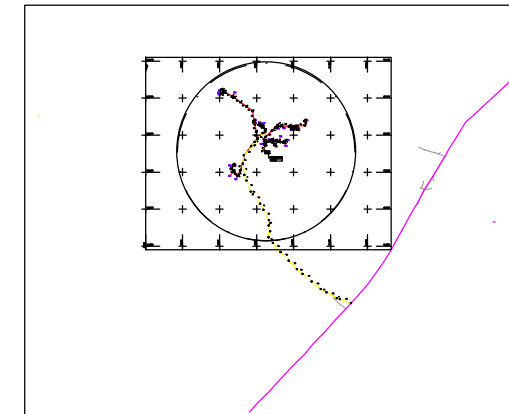
522000E

522250E

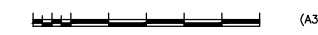
522500E

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



(A3)

PROJECT:

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: KWALE  
SCHEME: EXTENSION  
PROJECT SITE: GULANZE NGAJA VILLAGE

DRAW. NO.

KWL-EX-008

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

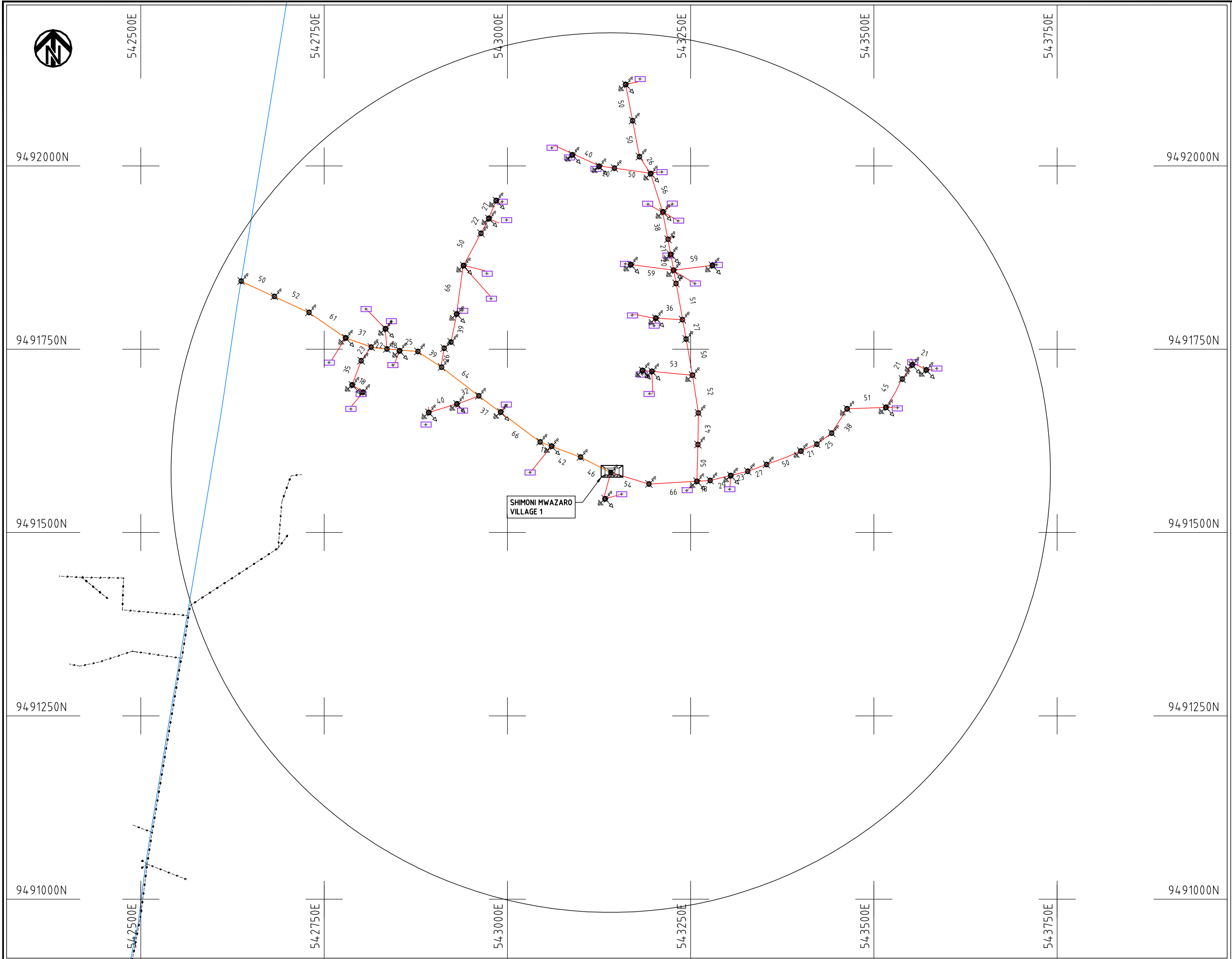
APPROVED BY

Y.TANAKA

DATE

10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT: <b>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</b>	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE		KWL-EX-009	CHECKED BY	S.MAETA
SCHEME: EXTENSION		APPROVED BY		Y.TANAKA	
PROJECT SITE: SHIMONI MWAZARO VILLAGE			DATE	10th SEP 2018	





542500E

542750E

543000E

543250E

543500E

543750E

9491750N

9491750N

9491500N

9491500N

9491250N

9491250N

9491000N

9491000N

9490750N

9490750N

542500E

542750E

543000E

543250E

543500E

543750E

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT:

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: KWALE  
SCHEME: EXTENSION  
PROJECT SITE: SHIMONI MWAZARO VILLAGE

DRAW. NO.

KWL-EX-010

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

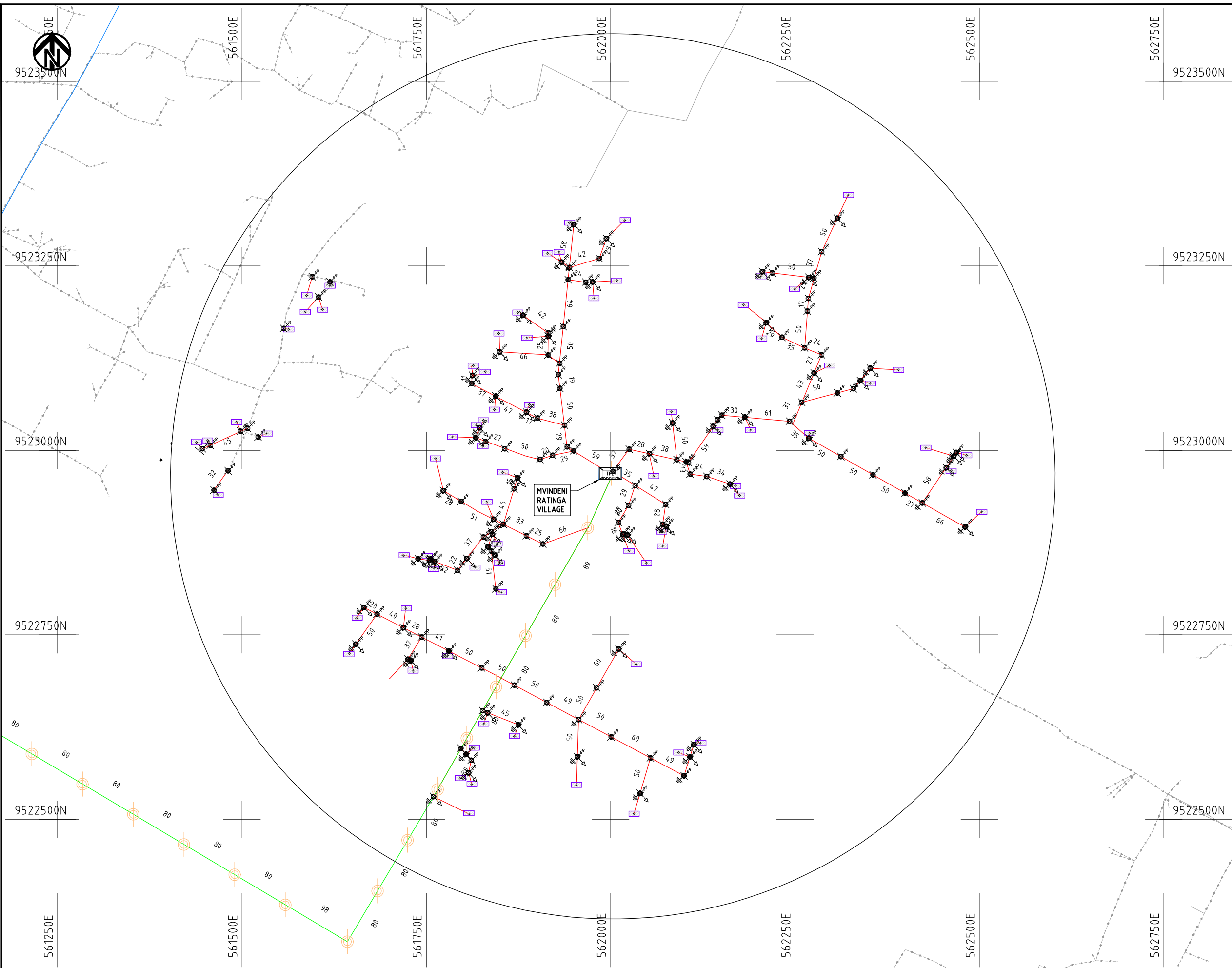
APPROVED BY

Y.TANAKA

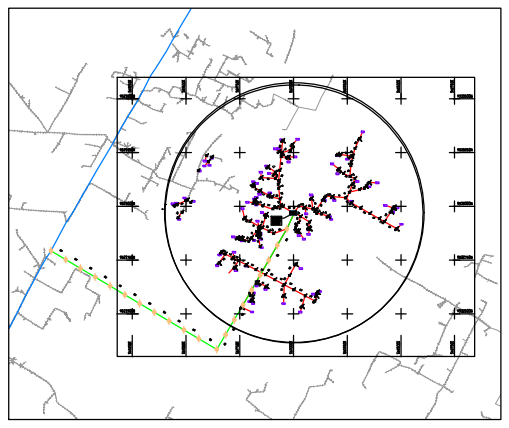
DATE

10th SEP 2018

NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
  4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

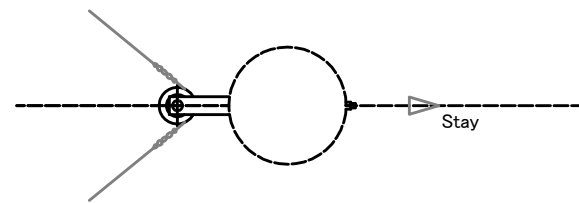
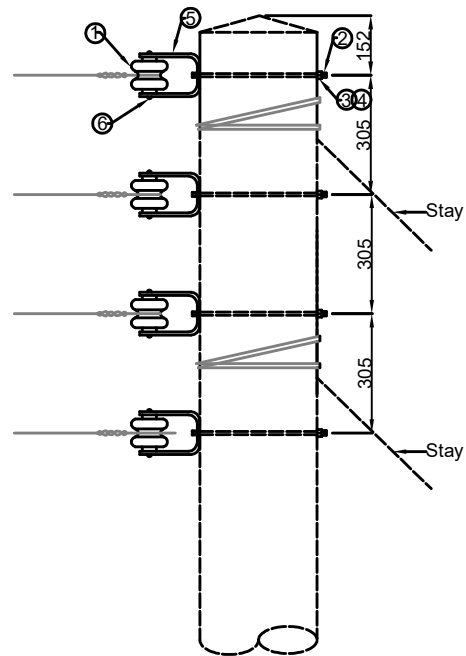


PROJECT:	THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA		DRAWING TITLE	DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE	SCHEME: EXTENSION			CHECKED BY	S.MAETA
	PROJECT SITE: MVINDENI RATINGA VILLAGE			KWL-EX-011	APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018

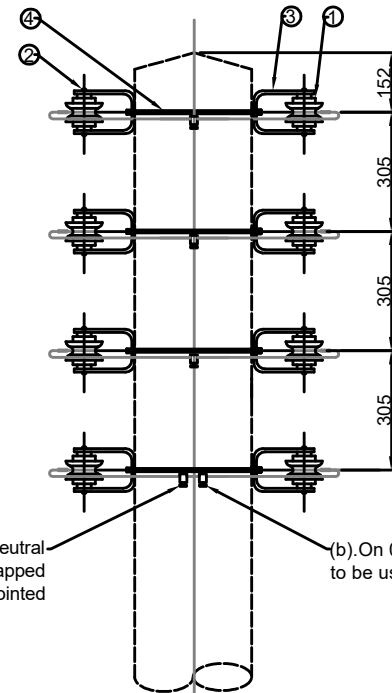


***Typical Drawing***

LV Intermediate pole  
(Single, two and three phase)

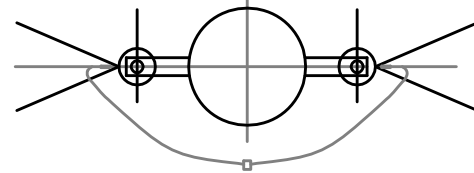


LV Section pole  
(Single, two and three phase)

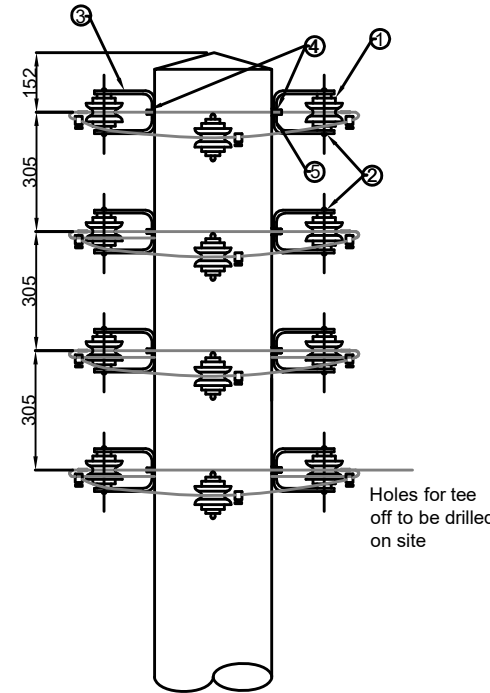


(a). On P.M.E system neutral to be Double line tapped or compression jointed

(b). On 0.1"AA Double line taps to be used on all neutral



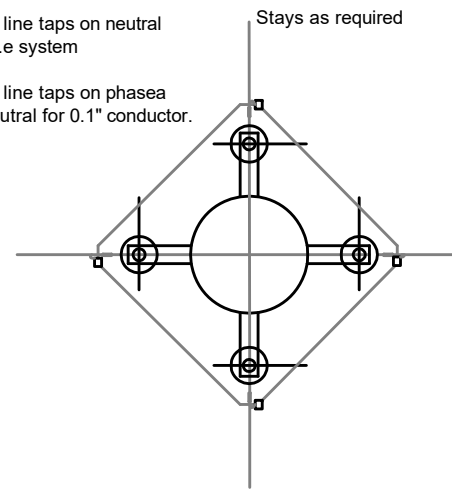
Fittings LV Section pole 3 or 4 way arrangement  
(Single, two and three phase)



Holes for tee off to be drilled on site

(a) Double line taps on neutral on p.m.e system

(d) Double line taps on phasea and neutral for 0.1" conductor.



LV Intermediate pole(Single, two and three phase)				
MATERIALS				
CU	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
10020	1	184836	4	Insulator Shackle, LV
	2	180801	4	Bolt and nut M16 x 325mm (5/8" x 13")
	3	189622	4	Washer square curved M16 (5/8" x 2" x 2")
	4	156322	4	Washer spring M10 (3/8")
	5	181201	4	Bracket D-Iron H.D.GALV
	6	180788	4	Bolt and nut M16 x 175mm (5/8" x 7")
LV Section pole(Single, two and three phase)				
MATERIALS				
10050	1	184836	8	Insulator Shackle, LV
	2	180788	8	Bolt and nut M16 x 175mm (5/8" x 7")
	3	181201	8	Bracket D-Iron H.D.GALV
	4	180796	4	Bolt and nut M16 x 280mm (5/8" x 11")
	5	189613	4	Washer round flat M16 (5/8")
Fittings LV Section pole 3 or 4 way arrangement(Single, two and three phase)				
MATERIALS				
10090	1	184836	16	Insulator Shackle, LV
	2	180788	16	Bolt and nut M16 x 175mm (5/8" x 7")
	3	181201	16	Bracket D-Iron H.D.GALV
	4	180796	8	Bolt and nut M16 x 280mm (5/8" x 11")
	5	189613	8	Washer round flat M16 (5/8")

Scale 1:20

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
AROUND NAIROBI CITY  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

Typical Drawing  
- LV Pole Fitting -

DRAW. NO.

TD-01

PREPARED BY

J. GEOFRY

CHECKED BY

S. MAETA

APPROVED BY

Y. TANAKA

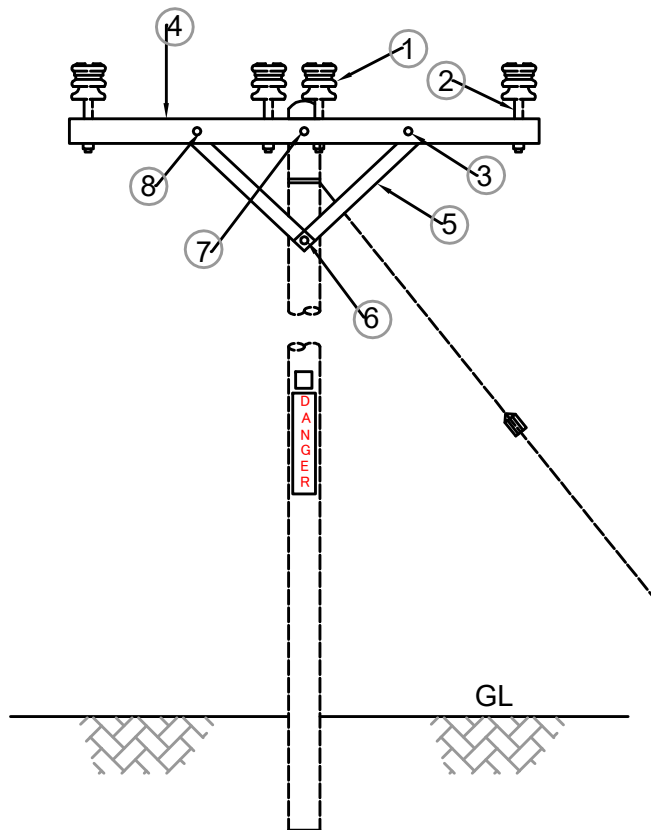
DATE

Aug-15,2018

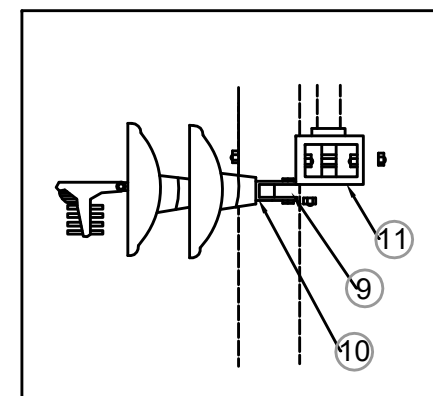
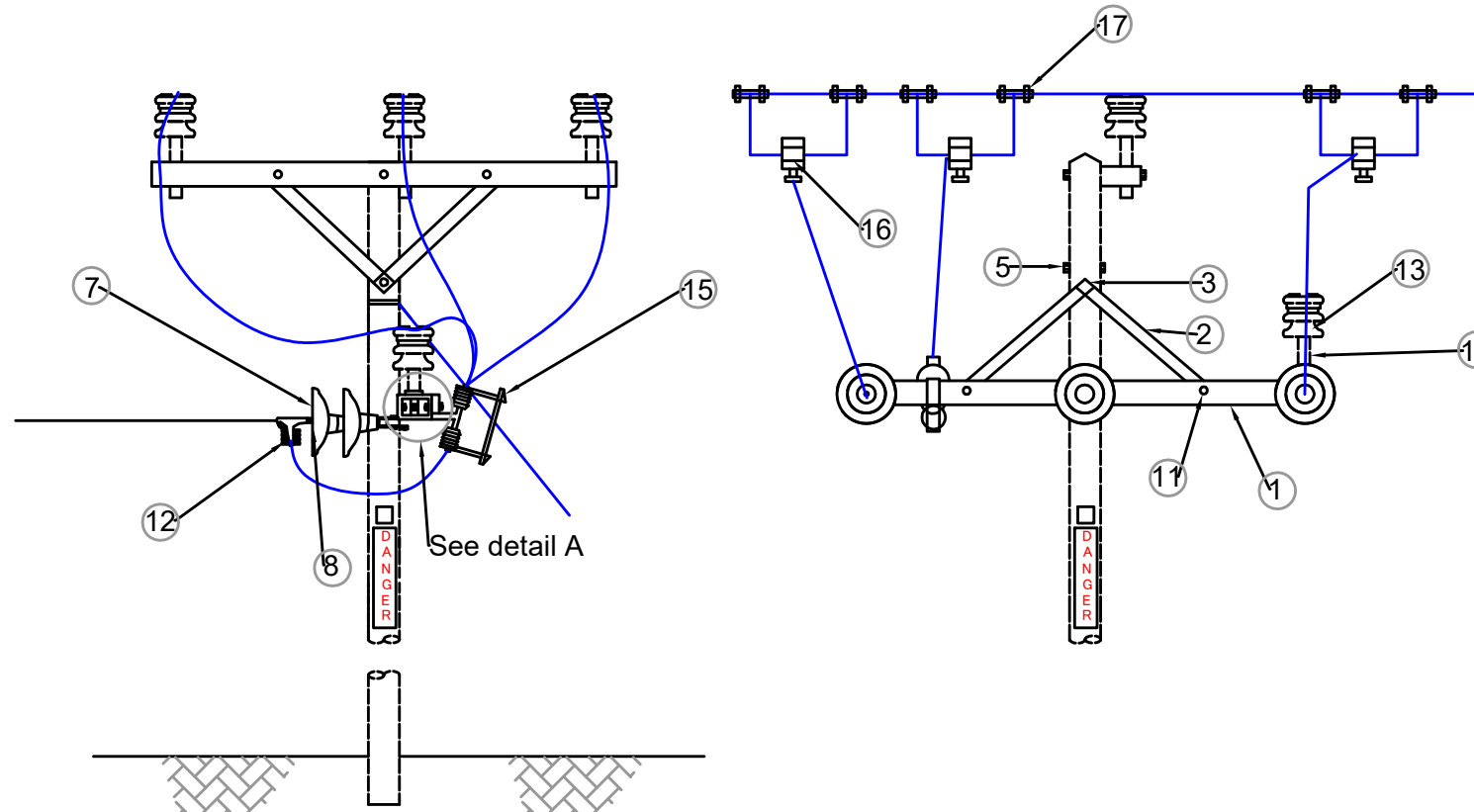
 NIPPON KOEI CO., LTD



Fittings for Intermediate pole 11kV



Fittings Tee-off pole with solid links 11kV



DETAIL A

Fittings for Intermediate pole 11kV				
MATERIALS				
CU	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
15020	1	184805	3	Insulator pin 11kV
	2	187718	3	Spindle 11kV
	3	189626	3	Washer flat M20x64mm
	4	182911	1	Crossarm steel L1650x70x70mm BS1320
	5	188115	2	Tie strap flat steel 11kV 590x40x5mm
	6 and 7	180841	2	Bolt and nut M20x280 (11" x 3/4") pole cross-arm/Tie strap pole
	8	180822	2	Bolt and nut M20x40mm (1.5" x 3/4") Tie strap pole crossarm
	Fittings Tee-off Pole with solid Links 11kV			
MATERIALS				
15330	1	186921	1	Steel Channel U2200x100x50mm
	2	188115	2	Tie straps flat steel 11kV
	3	180841	1	Bolt and nut M20 x 280 (11" x 3/4")
	4	180912	1	Eye bolt and nut M20 x 300 (3/4" x 12")
	5	189632	2	Washer square curved M20x63.5mm
	6	184501	1	Hook ball ended 40kN (Only at central phase)
	7	184860	6	Insulator glass disk 70kN
	8	180116	3	Adaptor socket tongue single hole M16
	9	188107	2	Terminating strap flat 250x75x10mm
	10	180104	2	Adaptor ball clevis M16 (Only with the flat phase)
	11	180822	4	Bolt and nut M20 x 40mm
	12	181920	3	Clamp dead end 100-150mm <sup>2</sup> cond.
	13	184805	2	Insulator pin 11kV
	14	187718	2	Spindle 11kV
	15	188447	3	Isolator solid link 11kV 400A
	16	188757	3	Connector live line tap 50mm <sup>2</sup>
	17	181818	6	Connector P.G. clamp 75-150mm <sup>2</sup> cond

Scale 1:75

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
AROUND NAIROBI CITY  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

Typical Drawing  
- 11kV Pole Fitting No.1 -

DRAW. NO.

TD-02

PREPARED BY

J. GEOFRY

CHECKED BY

S. MAETA

APPROVED BY

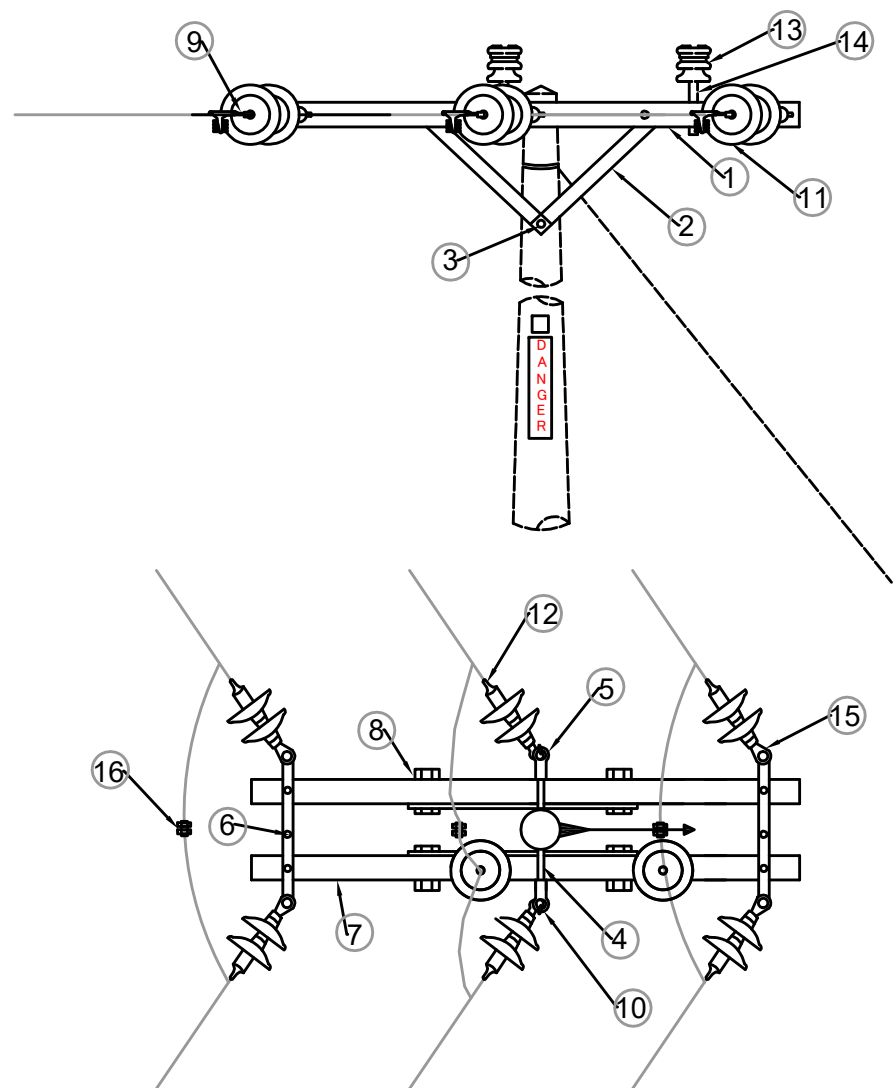
Y. TANAKA

DATE

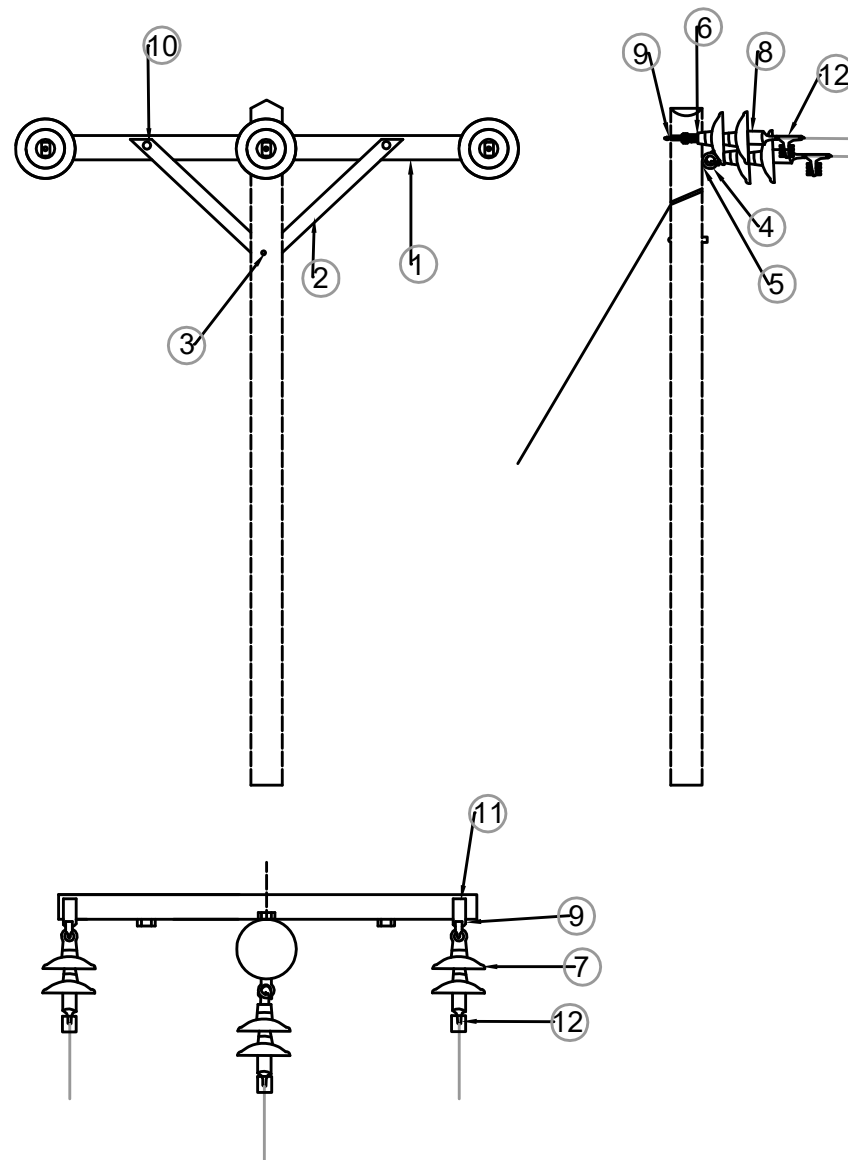
Aug-15,2018

 NIPPON KOEI CO., LTD

Fittings Horizontal Section Pole (@ < 60) 11kV



Fittings Terminal Poles (@ < 60) 11kV



Fittings Horizontal Section Pole (@ < 60) 11kV				
MATERIALS				
CU	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
15110	1	182940	2	Crossarm wood 33kV 2616 x 127mm (8'8" x 5" x 4")
	2	188108	4	Tie strap angle steel 11kV
	3	180841	1	Bolt and nut M20 x 280 (11" x 3/4")
	4	180915	1	Eye bolt and nut M20 x 600 (24" x 3/4")
	5	135131	1	Eye nut M20(3/4")
	6	188109	2	Terminating strap flat 508x50x6mm (20"x2"x1/4")
	7	180833	4	Bolt and nut M20 x 175mm (7" x 3/4")
	8	189626	4	Washer flat square M20x63.5mm <sup>2</sup>
	9	180116	6	Adaptor socket tongue single hole M16
	10	184501	2	Hook ball ended 40kN (Only at central phase)
	11	184860	12	Insulator glass disk70kN
	12	181920	6	Clamp dead end25-75mm <sup>2</sup> cond.
	13	184805	2	Insulator pin 11kV
	14	187718	2	Spindle 11kV
	15	180104	4	Adaptor ball clevis M16 (Only with the flat phase)
	16	181816	3	Connector P.G. clamp Al 25-75mm <sup>2</sup> cond
Fittings Terminal Poles (@ < 60) 11kV				
MATERIALS				
15220	1	182911	1	Crossarm steel angle L 1650x70x70mm BS 1320
	2	188111	2	Tie straps steel angle L580x50x5mm
	3	180841	1	Bolt and nut M20 x 280 (11" x 3/4")
	4	180912	1	Eye bolt and nut M20 x 300 (3/4" x 12") H/D GALV
	5	189632	2	Washer square curved M20x63.5mm
	6	184501	1	Hook ball ended 40kN (Only at central phase)
	7	184860	6	Insulator glass disk70kN
	8	180116	3	Adaptor socket tongue single hole M16
	9	188107	2	Terminating strap flat 250x75x10mm
	10	180104	2	Adaptor ball clevis M16 (Only with the flat phase)
	11	180822	4	Bolt and nut M20 x 40mm
	12	181920	3	Clamp dead end25-75mm <sup>2</sup> cond.

Scale 1:75

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
AROUND NAIROBI CITY  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

Typical Drawing  
- 11kV Pole Fitting No.2 -

DRAW. NO.

TD-03

PREPARED BY

J. GEOFRY

CHECKED BY

S. MAETA

APPROVED BY

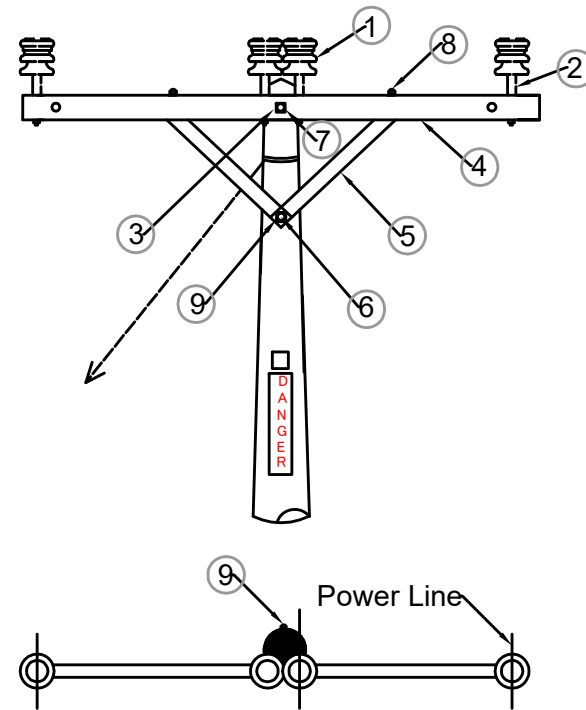
Y. TANAKA

DATE

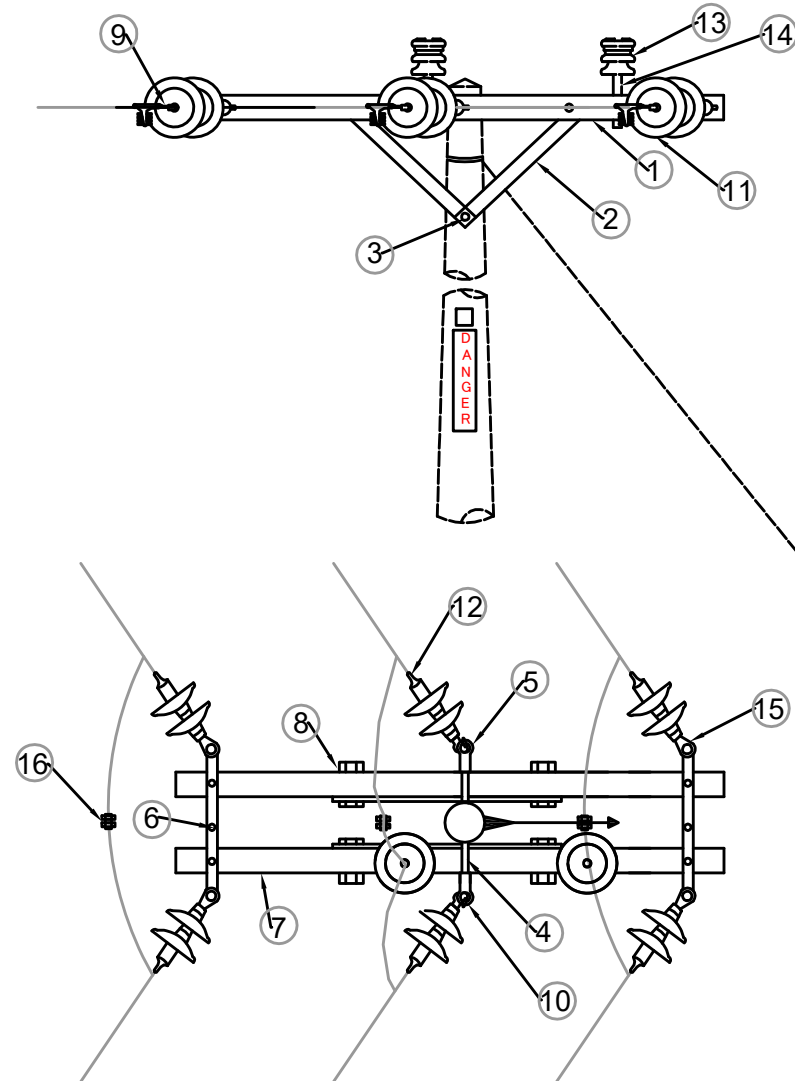
Aug-15,2018

 NIPPON KOEI CO., LTD

Fittings Intermediate and light angle pole 33kV



Fittings Horizontal Section Pole (@ < 60) 33kV



Fittings Intermediate and light angle pole 33kV				
MATERIALS				
CU	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
10380	1	184813	3	Insulator Pin 33kV
	2	187727	3	Spindle 33kV
	3	189626	3	Washer flat M20x64mm (tie strap)
	4	182940	1	Crossarm wood 8'8" x 5" x 4"
	5	188108	2	Tie strap angle steel 33kV
	6	180841	1	Bolt and nut M20x280 (11" x 3/4") Tie straps-pole
	7	180847	1	Bolt and nut M20x350 (14" x 3/4") pole cross-arm
	8	180833	2	Bolt and nut M20x175mm (7" x 3/4") tie strap cross-arm
	9	189632	2	Washer square curved M20x63.5mm
Fittings Horizontal Section Pole (@ < 60) 33kV				
MATERIALS				
CU	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
15430	1	182940	2	Crossarm wood (8'8" x 5" x 4")
	2	188108	2	Tie straps angle steel 33V
	3	180841	1	Bolt and nut M20 x 280 (11" x 3/4")
	4	180915	1	Eye bolt and nut M20 x 600 (24" x 3/4")
	5	135131	1	Eye nut M20(3/4")
	6	188109	2	Terminating strap flat 508x50x6mm (20"x2"x1/4")
	7	180833	8	Bolt and nut M20 x 175mm (7" x 3/4")
	8	189626	8	Washer flat square M20x63.5mm <sup>2</sup>
	9	180116	6	Adaptor socket tongue single hole M16
	10	184501	2	Hook ball ended 40kN (Only at central phase)
	11	184860	18	Insulator glass disk70kN
	12	181920	6	Clamp dead end25-75mm <sup>2</sup> cond.
	13	184813	2	Insulator pin 33kV
	14	187727	2	Spindle 33kV
	15	180104	4	Adaptor ball clevis M16 (Only with the flat phase)
	16	181816	6	Connector P.G. clamp Al 25-75mm <sup>2</sup> cond

Scale 1:75

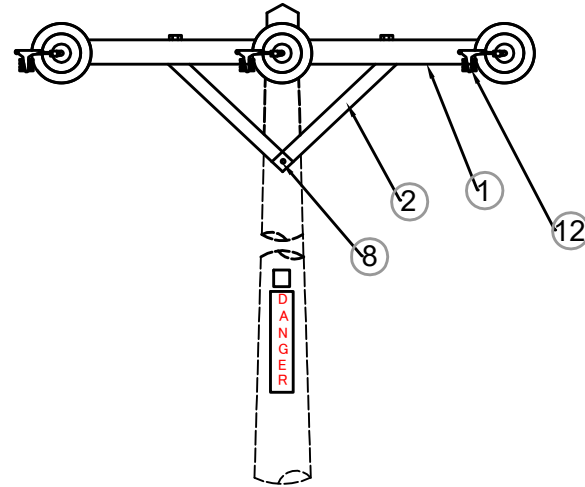
THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
AROUND NAIROBI CITY  
IN THE REPUBLIC OF KENYA

DRAWING TITLE  
Typical Drawing  
- 33kV Pole Fitting No.1 -

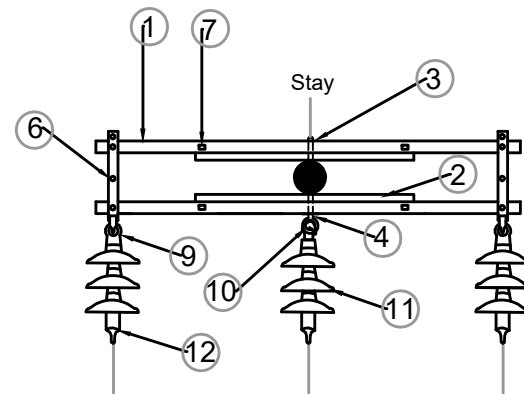
DRAW. NO.	PREPARED BY	J. GEOFRY
TD-04	CHECKED BY	S. MAETA
	APPROVED BY	Y. TANAKA
	DATE	Aug-15,2018

 NIPPON KOEI CO., LTD

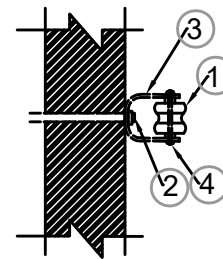
Fittings Terminal Poles (@ < 60) 33kV



Fittings Horizontal Section Pole ( @ < 60 ) 33kV				
MATERIALS				
CU	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
15490	1	182940	2	Crossarm wood 33kV (8'8" x 5" x 4")
	2	188108	2	Pc 33kV Angle tie straps (steel)
	3	180841	1	Bolt and nut M20 x 280 (11" x 3/4")
	4	180915	1	Eye bolt and nut M20 x 600 (24" x 3/4")
	6	188109	2	Terminating strap flat 508x50x6mm (20"x2"x1/4")
	7	180833	8	Bolt and nut M20 x 175mm (7" x 3/4")
	8	189626	8	Washer flat square M20x63.5mm <sup>2</sup>
	9	180116	3	Adaptor socket tongue M16
	10	184501	3	Hook ball ended 40kN (Only at central phase)
	11	184860	9	Insulator glass disk70kN
	12	181920	3	Clamp dead end25-75mm <sup>2</sup> cond.



Service lines wall fittings



Service Lines Fittings				
MATERIALS				
CU	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
10210	1	184836	1	Insulator Shackles, LV
	2	105409	1	Bolt and washer Rawl, M12x120mm(1/2" x 5")
	3	181201	1	Bracket D-Iron H.D.GALV
	4	180788	1	Bolt and nut M16 x 175mm (5/8" x 7")

Scale 1:75

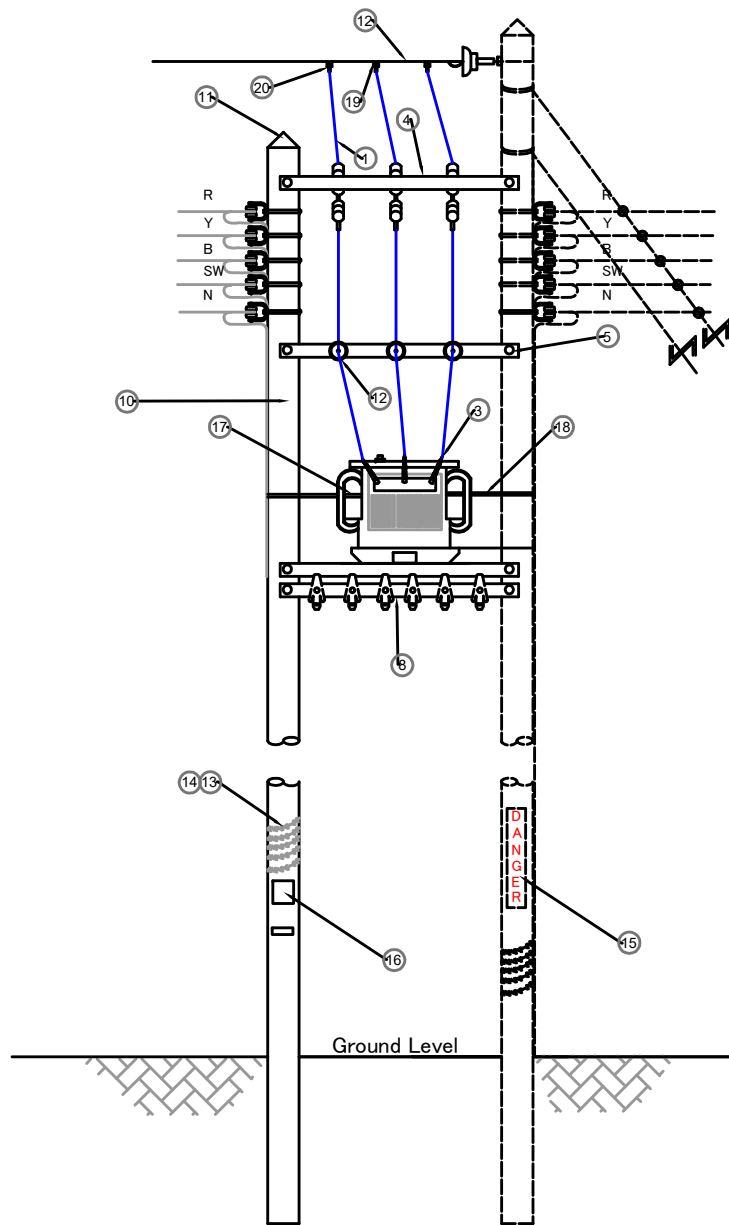
THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
AROUND NAIROBI CITY  
IN THE REPUBLIC OF KENYA

DRAWING TITLE  
Typical Drawing  
- 33kV Pole Fitting No.2 -

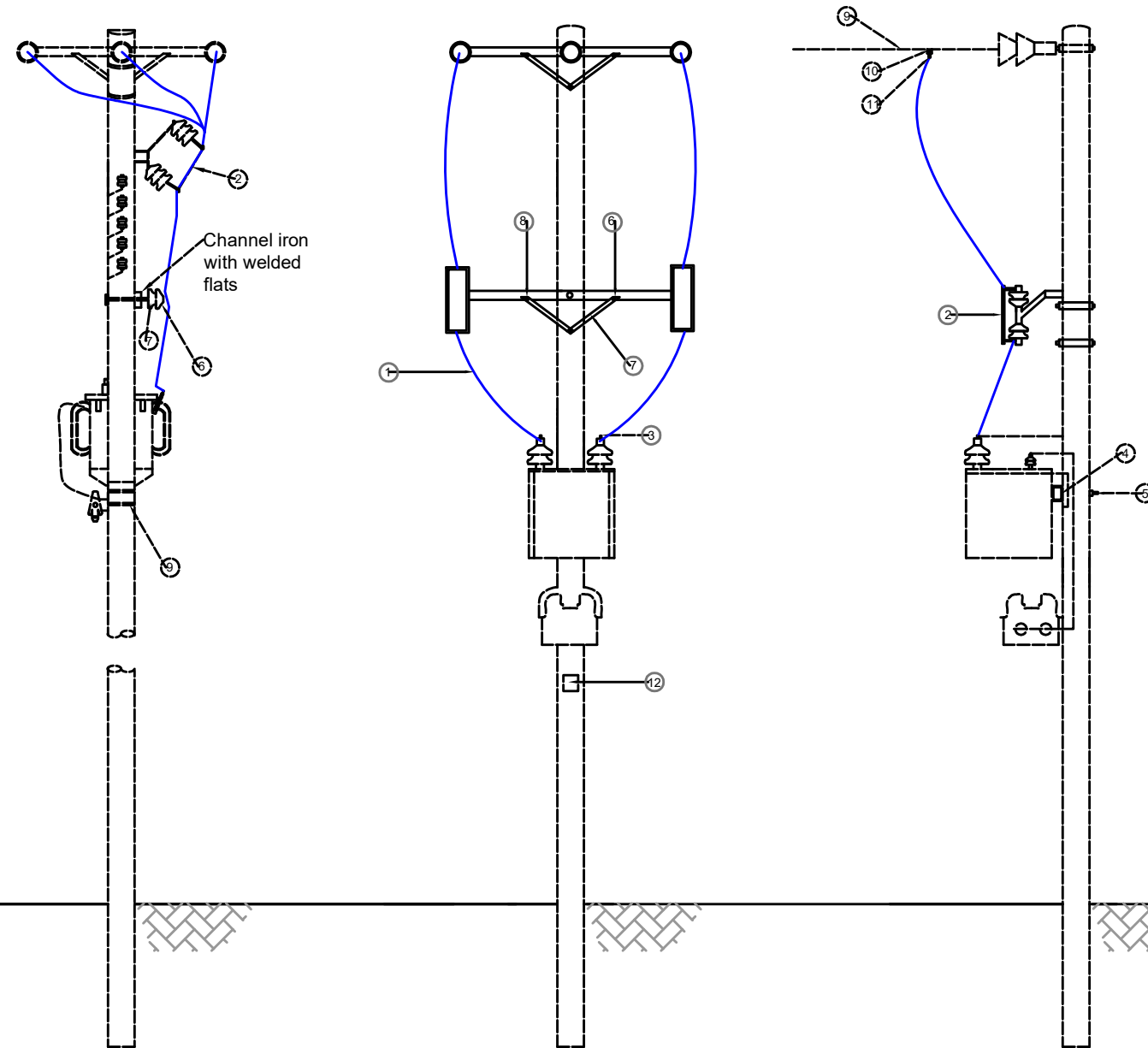
DRAW. NO.	PREPARED BY	J. GEOFRY
TD-05	CHECKED BY	S. MAETA
	APPROVED BY	Y. TANAKA
	DATE	Aug-15,2018

 NIPPON KOEI CO., LTD

H POLE MOUNTED



SINGLE POLE MOUNTED SUBSTATION



H POLE MOUNTED

		MATERIALS		
CU	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
08030	1	182534	12m	Cable 50mm <sup>2</sup> s/c Cu. PVC(19/ 064)
	2	185135	3	Isolator Solid link 33kv
	3	146220	3	Connector lug brass solder 70mm <sup>2</sup> (8D)
	4	186922	4	Steel Channel steady bar U 2286 x 127 x 64mm
	5	180847	6	Bolt and nut M20 x 280mm (3/4" x 11")
	6	184813	3	Insulator pin 33kV
	7	187727	3	Spindle 33kV
	8	186932	1	Fuse bar wood 7' 6" x 5" x 4"
	9	180847	2	Bolt and nut M20 x 350mm (3/4" x 14")
	10	186187	1	Pole wood C 9.8 medium
	11	181251	1	Cover pole cap
	12	189705	12m	Binding wire No 9 AIPVC
	13	157201	7.5m	M barbed wire
	14	134301	0.1kg	Clout nails
	15	186006	1	Plate DANGER/HATARI
	16	---	1	Plate substation number
	17	189306	1	Tumbacle D/Screw 5/8" x 10"
	18	189748	4m	Stay wire 4/8
	19	182404	0.5m	Conductor 50mm <sup>2</sup> AA HD bare
	20	188757	3	Connector live line tap 50mm <sup>2</sup>

SINGLE POLE MOUNTED SUBSTATION

		MATERIALS		
CU	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
08070	1	182534	12m	Cable 50mm <sup>2</sup> s/c Cu. PVC(19/ 064)
	2	188447	3	Isolator Solid link 11kv
	3	146220	3	Connector lug brass solder 70mm <sup>2</sup> (8D)
	4	186914	1	Single-pole mounted transformer platform
	5	180841	3	Bolt and nut M20 x 280mm (3/4" x 11")
	6	182911	1	Crossarm Steel 11kV L 1650 x 70 x 70mm
	7	188115	2	Tie strap Flat 590 x 40 x 5mm (11kV)
	8	180822	2	Bolt and nut M20 x 40mm (3/4" x 1 1/2")
	9	189705	12m	Binding wire No 9 AIPVC
	10	182402	1.5m	Conductor 50mm <sup>2</sup> AA HD bare
	11	188757	3	Connector live line tap 50mm <sup>2</sup>
	12	----	1	Plate substation number

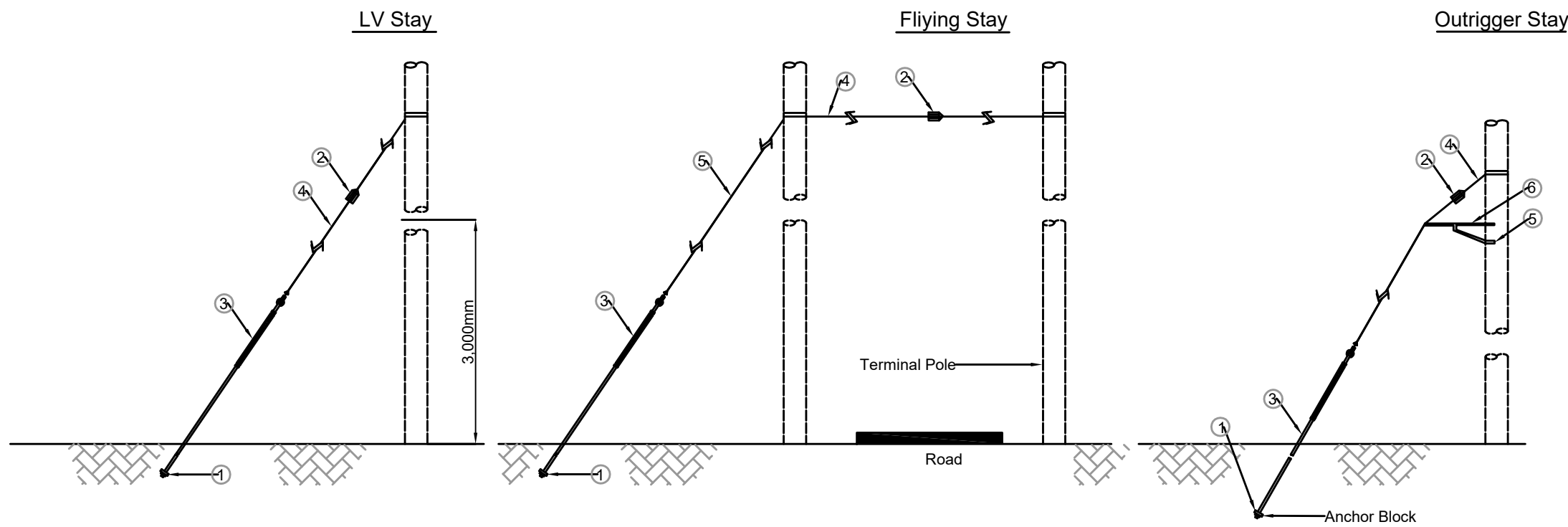
Scale 1:75

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
AROUND NAIROBI CITY  
IN THE REPUBLIC OF KENYA

DRAWING TITLE  
Typical Drawing  
- Pole Mounted Sub Station -

DRAW. NO. TD-06  
PREPARED BY J. GEOFRY  
CHECKED BY S. MAETA  
APPROVED BY Y. TANAKA  
DATE Aug-15,2018

 NIPPON KOEI CO., LTD



LV Stay				
CU	MATERIALS			
	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
10250	1	180618	1	Stay block 3/4' Concrete
	2	184841	1	Stay Insulator
	3	186525	1	Stay Rod (1/2" x 6")
	4	189748	15m	Stay Wire 4/8
Flying Stay LV				
CU	MATERIALS			
	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
10260	1	180618	1	Stay block 3/4' Concrete
	2	184841	1	Stay Insulator
	3	186525	1	Stay Rod (1/2" x 6")
	4	189306	1	Turnbuckle D/Screw (5/8" x 10")
	5	189748	45m	Stay Wire 4/8
Outrigger Stay				
CU	MATERIALS			
	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
10270	1	180618	1	Stay block 3/4' Concrete
	2	184841	1	Stay Insulator
	3	186525	1	Stay Rod (1/2" x 6")
	4	189748	15m	Stay Wire 4/8
	5	143666	2	Screw Coach M12 x 80mm (1/2" x 3")
	6	181222	1	Bracket Outrigger

MV Stay				
CU	MATERIALS			
	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
15590	1	180618	1	Stay block 3/4' Concrete
	2	184841	1	Insulator stay 11kV
	3	186531	1	Stay Rod 8x3/4'
	4	189748	20m	Stay Wire 7/8
Flying Stay MV				
CU	MATERIALS			
	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
10260	1	180618	1	Stay block 3/4' Concrete
	2	184841	1	Insulator stay 11kV
	3	186531	1	Stay Rod 8x3/4'
	4	189306	1	Turn buckel double screw GALV. 10" 5/8"
	5	189737	20m	Stay Wire 7/8

Scale 1:75

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
AROUND NAIROBI CITY  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

Typical Drawing  
- Stay LV / MV -

DRAW. NO.

TD-07

PREPARED BY

J. GEOFRY

CHECKED BY

S. MAETA

APPROVED BY

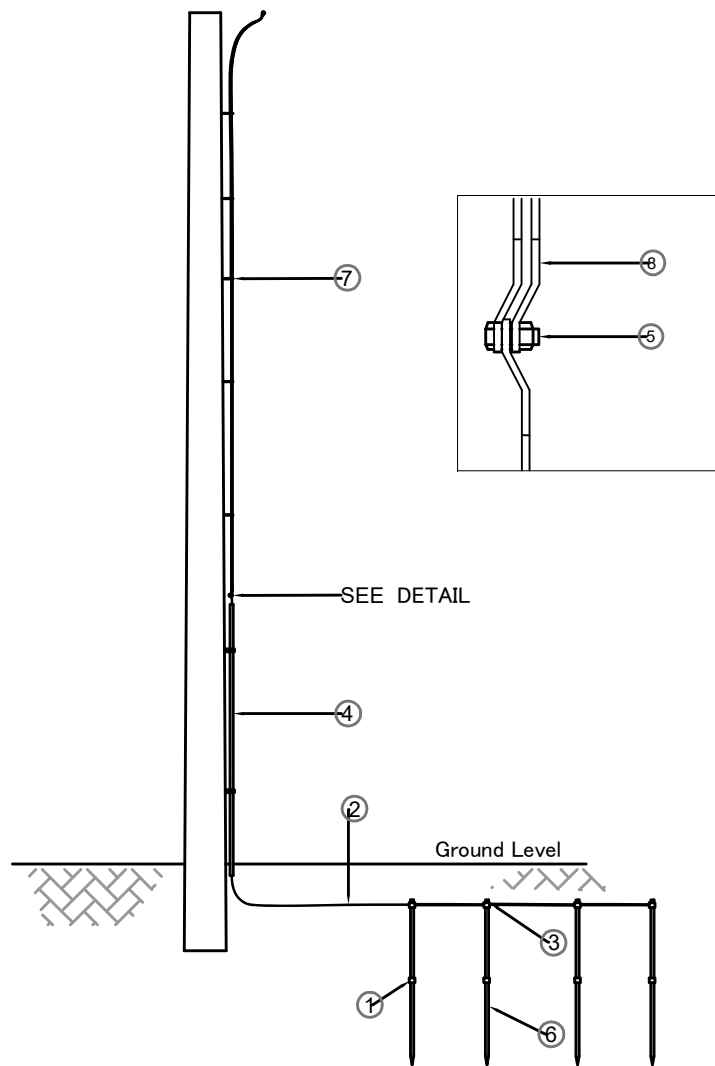
Y. TANAKA

DATE

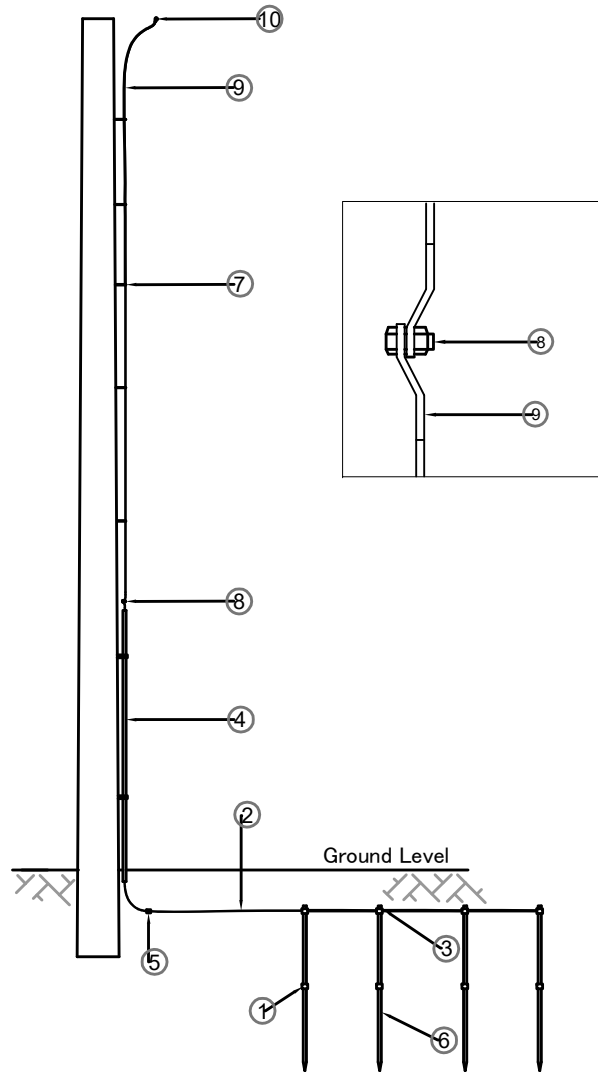
Aug-15,2018

 NIPPON KOEI CO., LTD

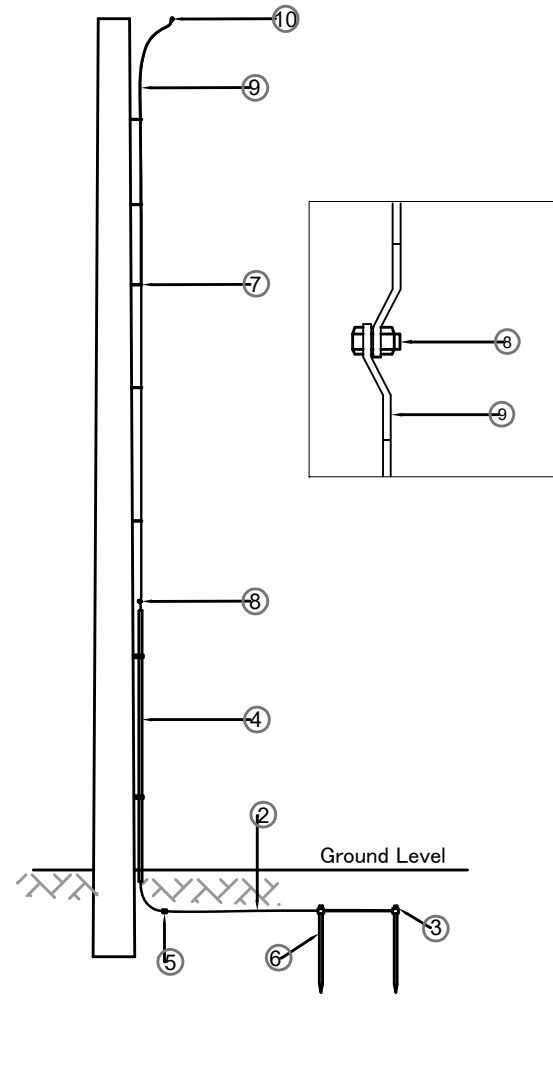
**MEDIUM VOLTAGE SUBSTATION  
EARTH/SURGE EARTH**



**LOW VOLTAGE EARTHING**



**PROTECTIVE MULTIPLE EARTH**



MEDIUM VOLTAGE SUBSTATION EARTH/SURGE EARTH				
MATERIALS				
CU	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
14010	1	186546	4	Couplings for earth rods 1/2"
	2	182534	20	Cable 50mm <sup>2</sup> S/C Cu. PVC
	3	186550	4	Earth rod clamp 5/8 "
	4	112631	1	Cable guard PVC 1/2 " x 8' 6"
	5	105563	1	Bolt and nut brass M20 x 25mm (3/8" x 1")
	6	186544	8	Earth rod copper 1/2 " x 5"
	7	142802	6	Saddles for cables 5/8 "
	8	146220	3	Connector lug brass solder 70mm <sup>2</sup> (8D)
	9	134301	0.1kg	Clout nails 1"
LOW VOLTAGE EARTHING				
MATERIALS				
14030	1	186546	4	Couplings for earth rods 1/2"
	2	182534	12	Cable 50mm <sup>2</sup> S/C Cu. PVC
	3	186550	4	Earth rod clamp
	4	112631	1	Cable guard PVC 1/2 " x 8' 6"
	5	182532	8	Conductor 50mm <sup>2</sup> AA A/D bare
	6	186544	8	Earth rod copper 1/2 " x 5"
	7	142802	6	Saddles for cables 5/8 "
	8	105563	1	Bolt and nut brass M20 x 25mm (3/8" x 1")
	9	146220	3	Connector line tap Al. 70mm <sup>2</sup> (8D)
	10	188743	1	Connector line tap Al. 100mm <sup>2</sup>
	11	134301	0.1kg	Clout nails 1"
PROTECTIVE MULTIPLE EARTH				
MATERIALS				
14060	2	182534	12	Cable 50mm <sup>2</sup> S/C Cu. PVC
	3	186550	2	Earth rod clamp 5/8 "
	4	112631	1	Cable guard PVC 1/2 " x 8' 6"
	5	182532	8	Conductor 50mm <sup>2</sup> AA A/D bare
	6	186544	2	Earth rod copper 1/2 " x 5"
	7	142802	6	Saddles 5/8 "
	8	105563	1	Bolt and nut brass 3/8 " x 1"
	9	146220	3	Connector lug brass solder 70mm <sup>2</sup> (8D)
	10	188743	1	Connector line tap Al. 100mm <sup>2</sup>
	11	134301	0.1kg	Clout nails 1"

Scale 1:75

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
AROUND NAIROBI CITY  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

Typical Drawing  
- Earthing -

DRAW. NO.

TD-08

PREPARED BY

J. GEOFRY

CHECKED BY

S. MAETA

APPROVED BY

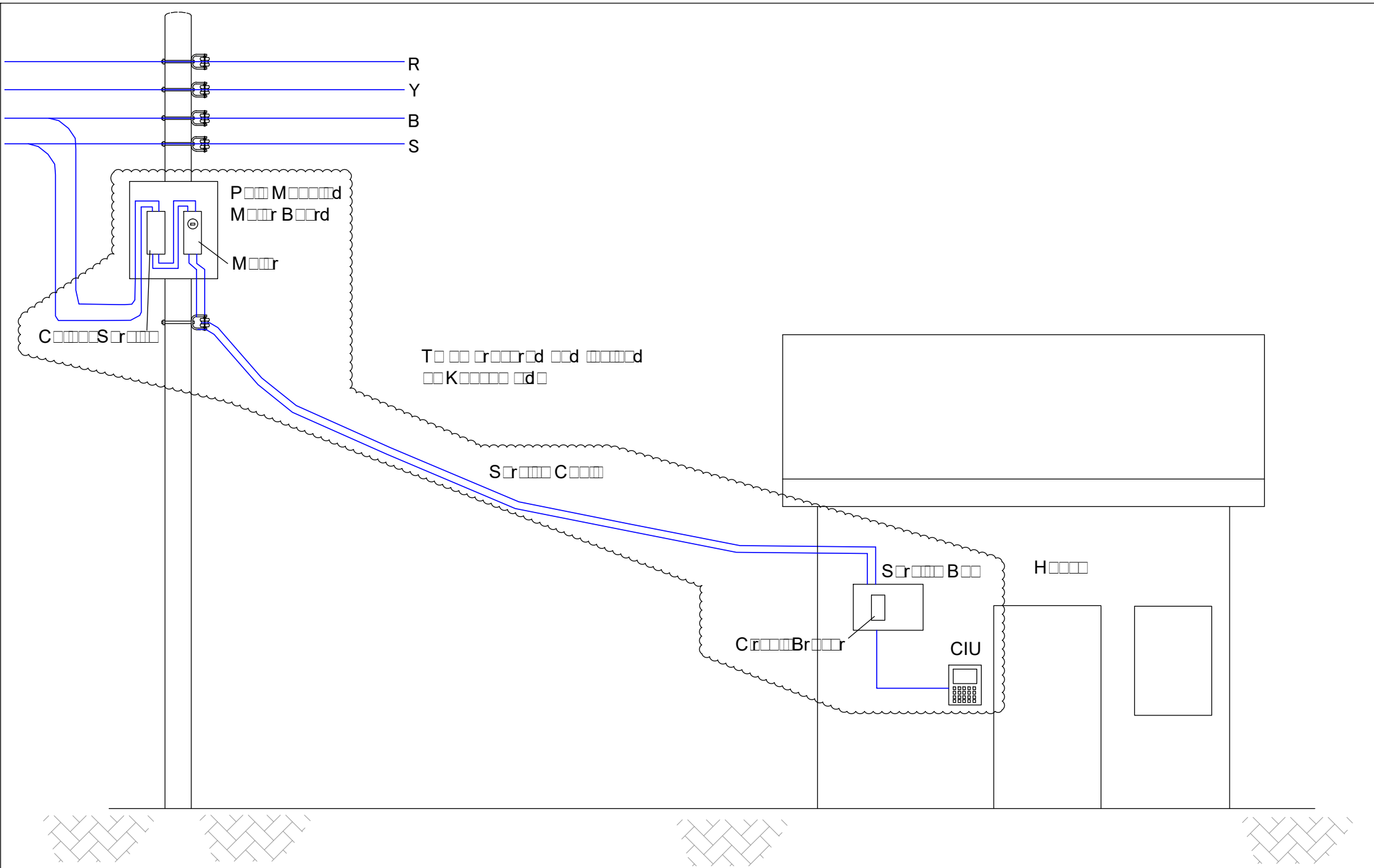
Y. TANAKA

DATE

Aug-15,2018

 NIPPON KOEI CO., LTD





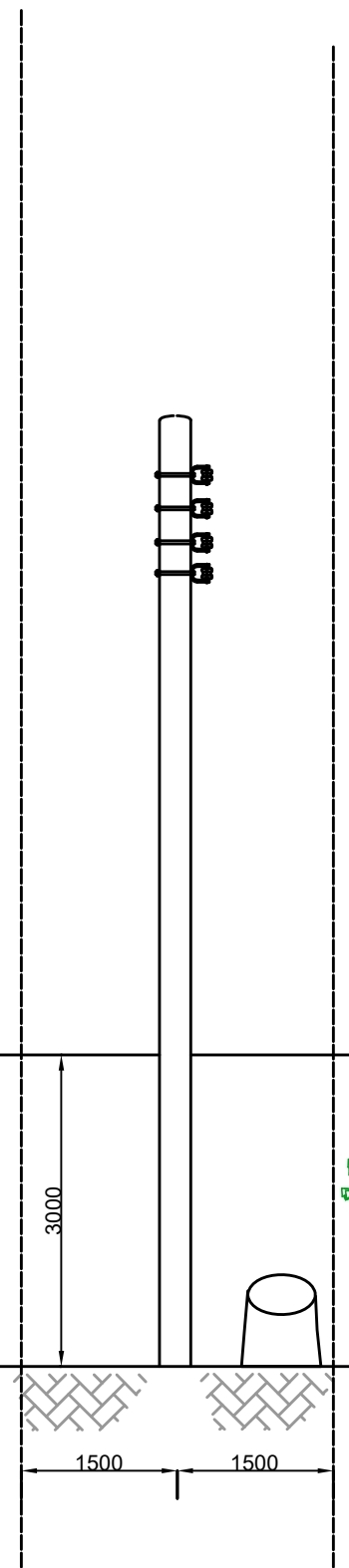
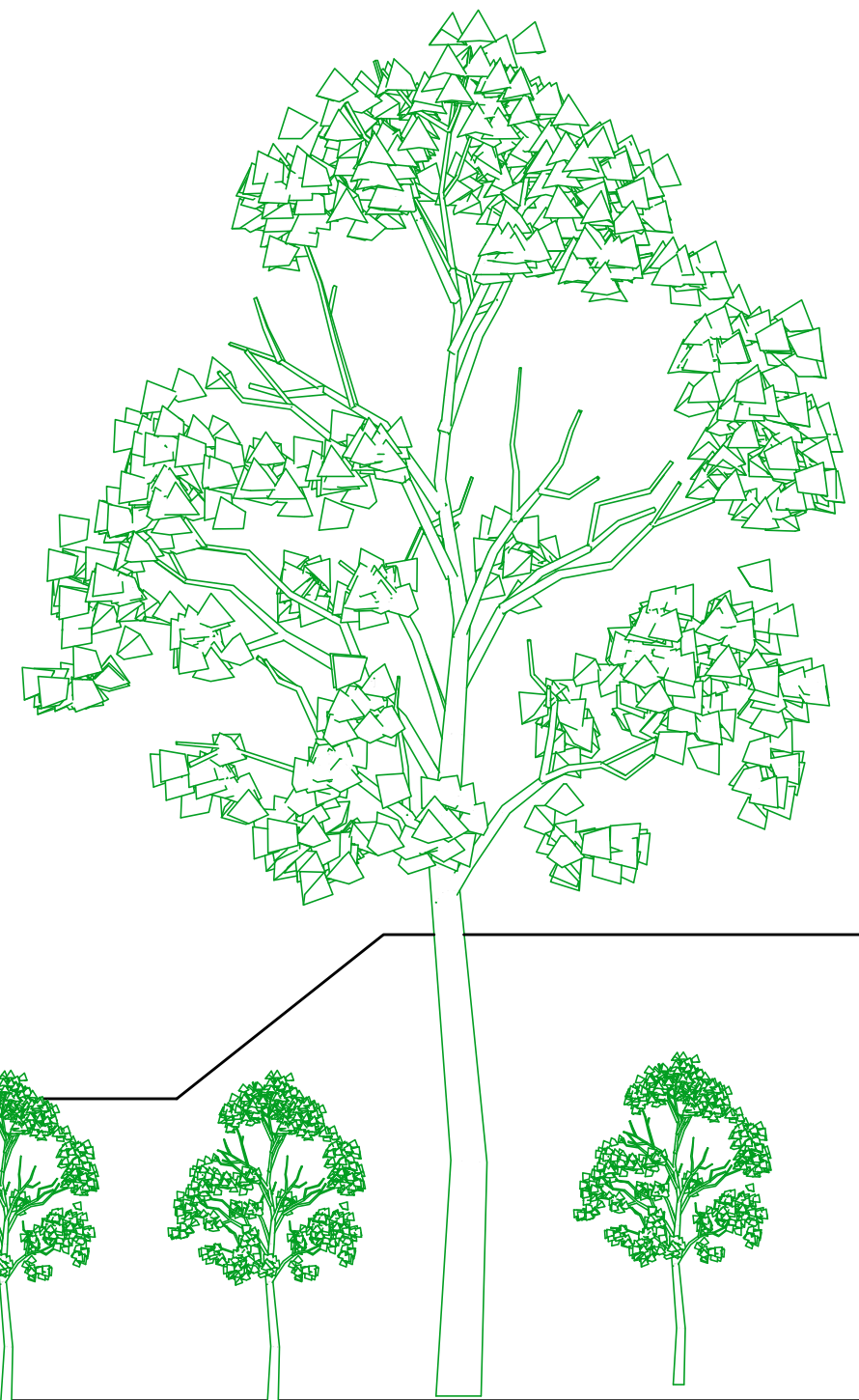
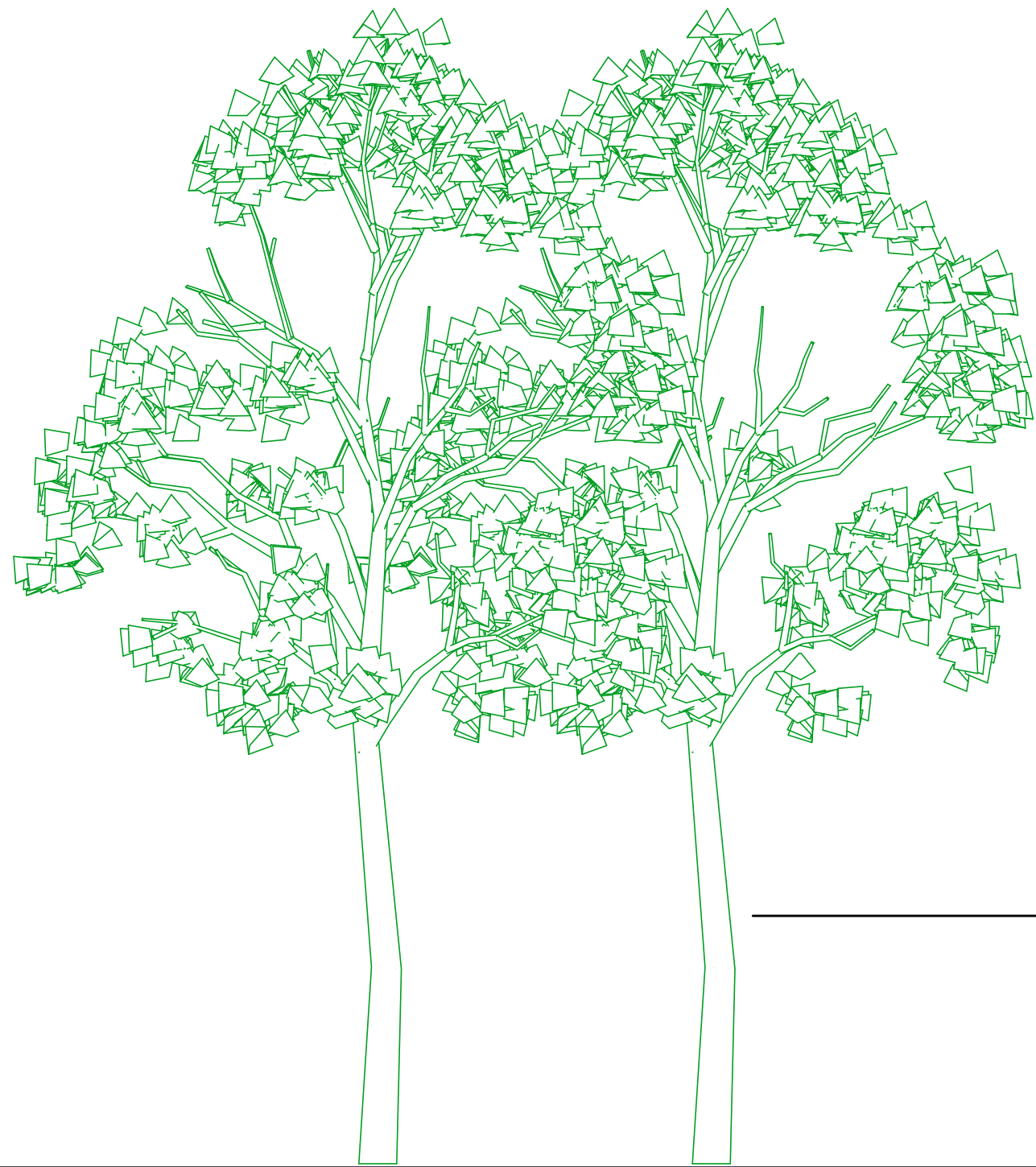
THE PREPARATORY SURVEY  
 ON THE PROJECT FOR IMPROVEMENT  
 OF POWER DISTRIBUTION SYSTEM  
 AROUND NAIROBI CITY  
 IN THE REPUBLIC OF KENYA

DRAWING TITLE  
 Typical Drawing  
 - Service Line -

DRAW. NO.  
 TD-09

PREPARED BY	J. GEOFRY
CHECKED BY	S. MAETA
APPROVED BY	Y. TANAKA
DATE	Aug-15,2018





3000

1500

1500

Scale 1:75

THE PREPARATORY SURVEY  
ON THE PROJECT FOR IMPROVEMENT  
OF POWER DISTRIBUTION SYSTEM  
AROUND NAIROBI CITY  
IN THE REPUBLIC OF KENYA

DRAWING TITLE

Typical Drawing  
- Tree Cutting -

DRAW. NO.

TD-10

PREPARED BY

CHECKED BY

APPROVED BY

DATE

J. GEOFRY

S. MAETA

Y. TANAKA

Aug-15,2018



NIPPON KOEI CO., LTD