

ケニア共和国
エネルギー省
ケニア配電公社

ケニア共和国
ナクル市及びその周辺並びにモンバサ市周辺
配電設備整備計画
先行公開版

協力準備調査報告書

平成 31 年 3 月
(2019 年)

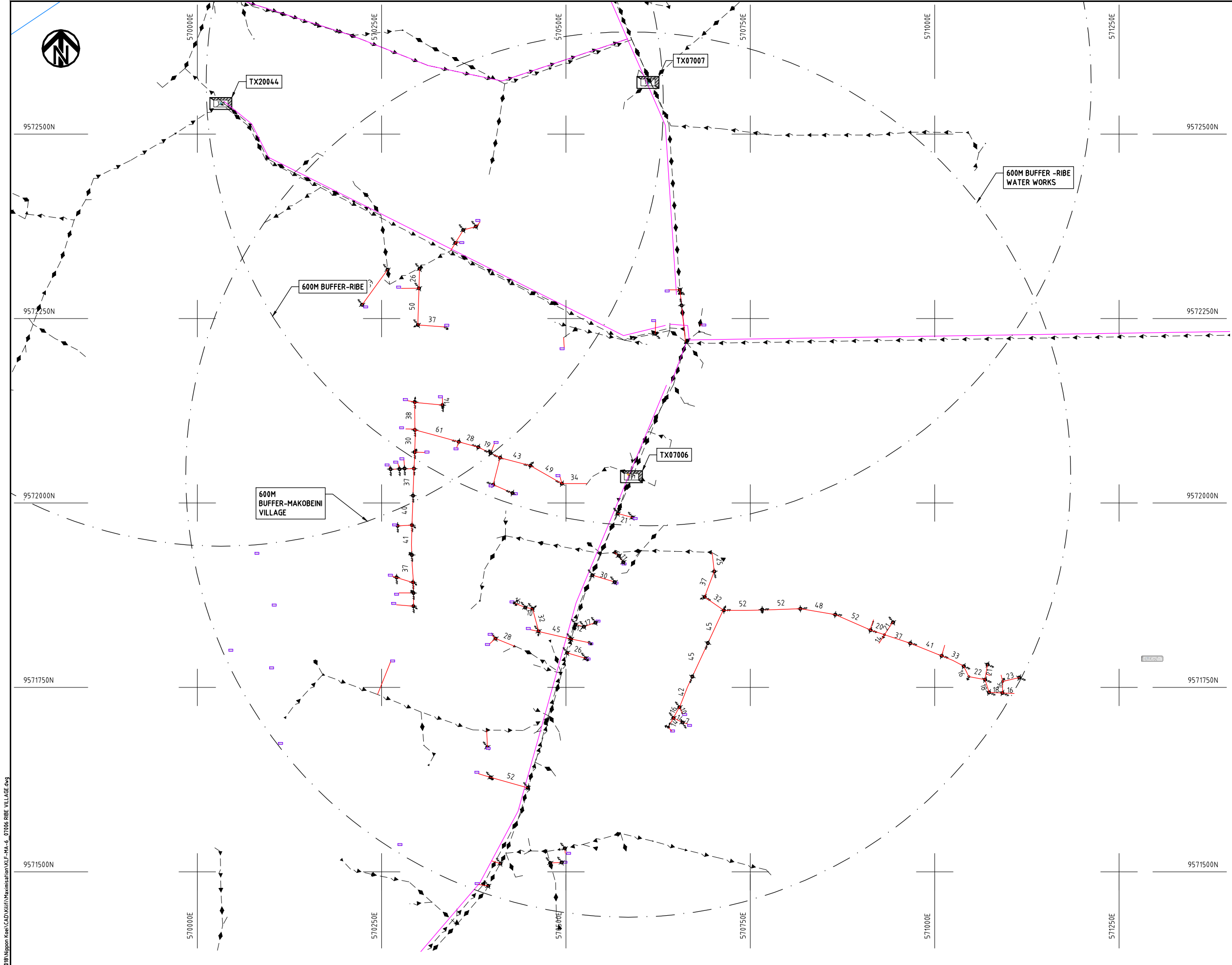
独立行政法人
国際協力機構 (JICA)

日本工営株式会社

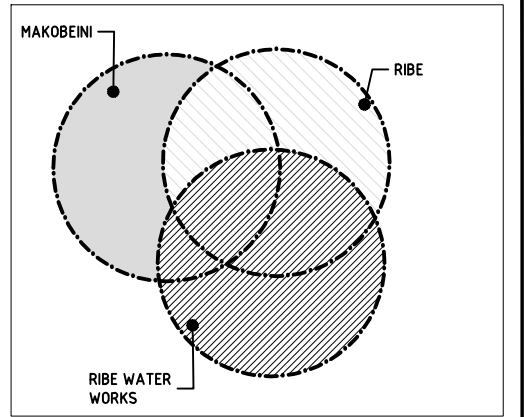
産業
JR (P)
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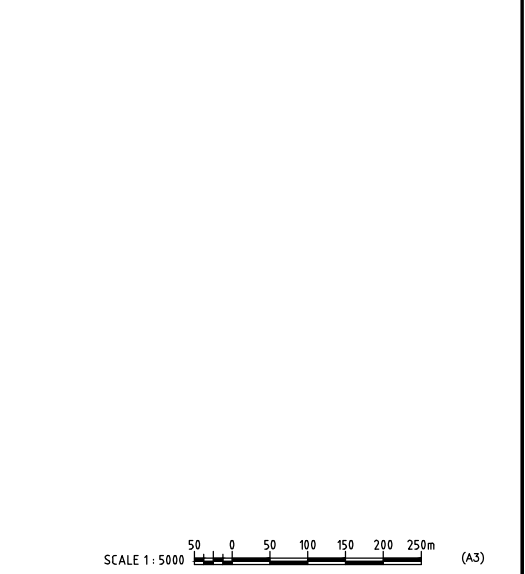
Maximization



- 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.



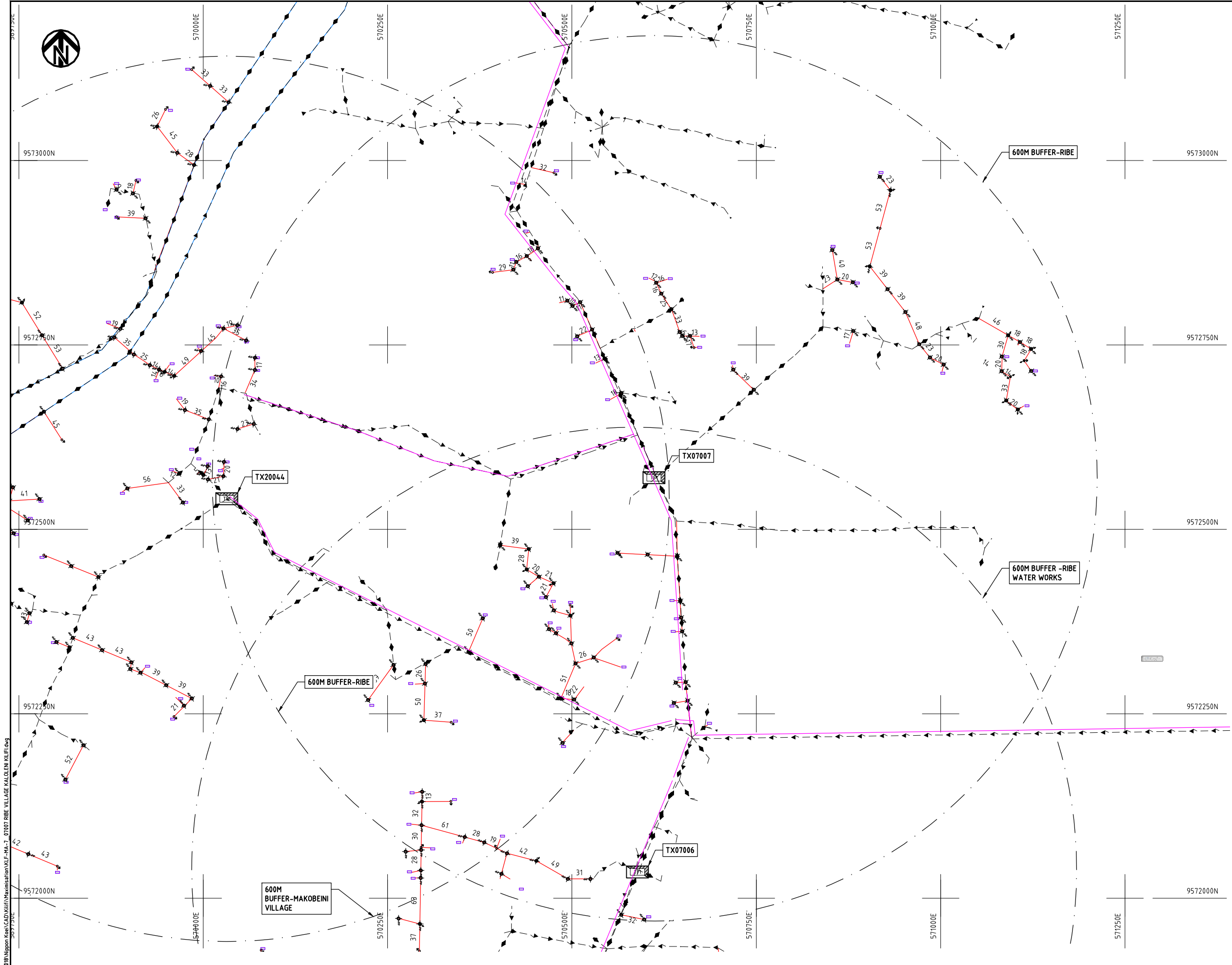
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



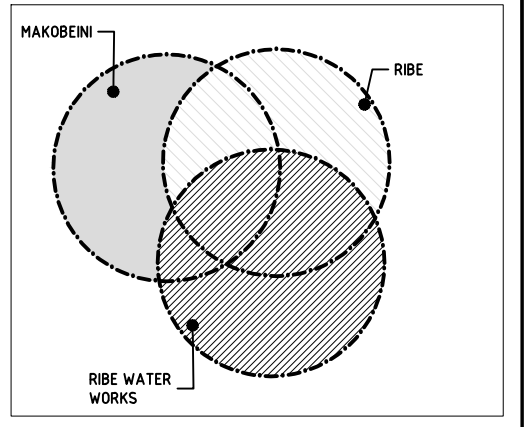
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		COUNTY: KILIFI		KLF-MA-6	CHECKED BY	S.MAETA
		SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
		PROJECT SITE: 07006-RIBE VILLAGE			DATE	10th SEP 2018



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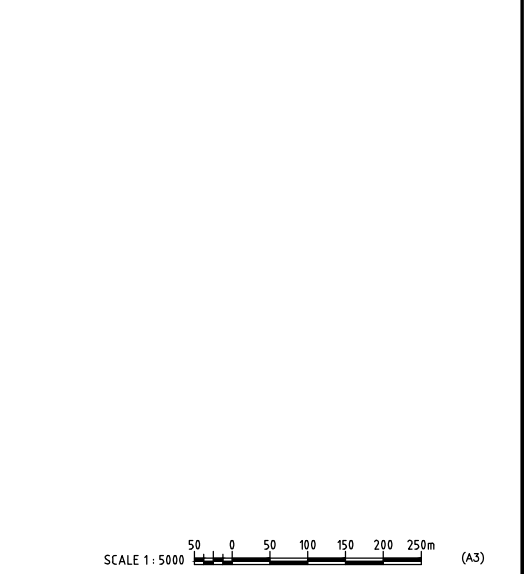


- NOTES:**
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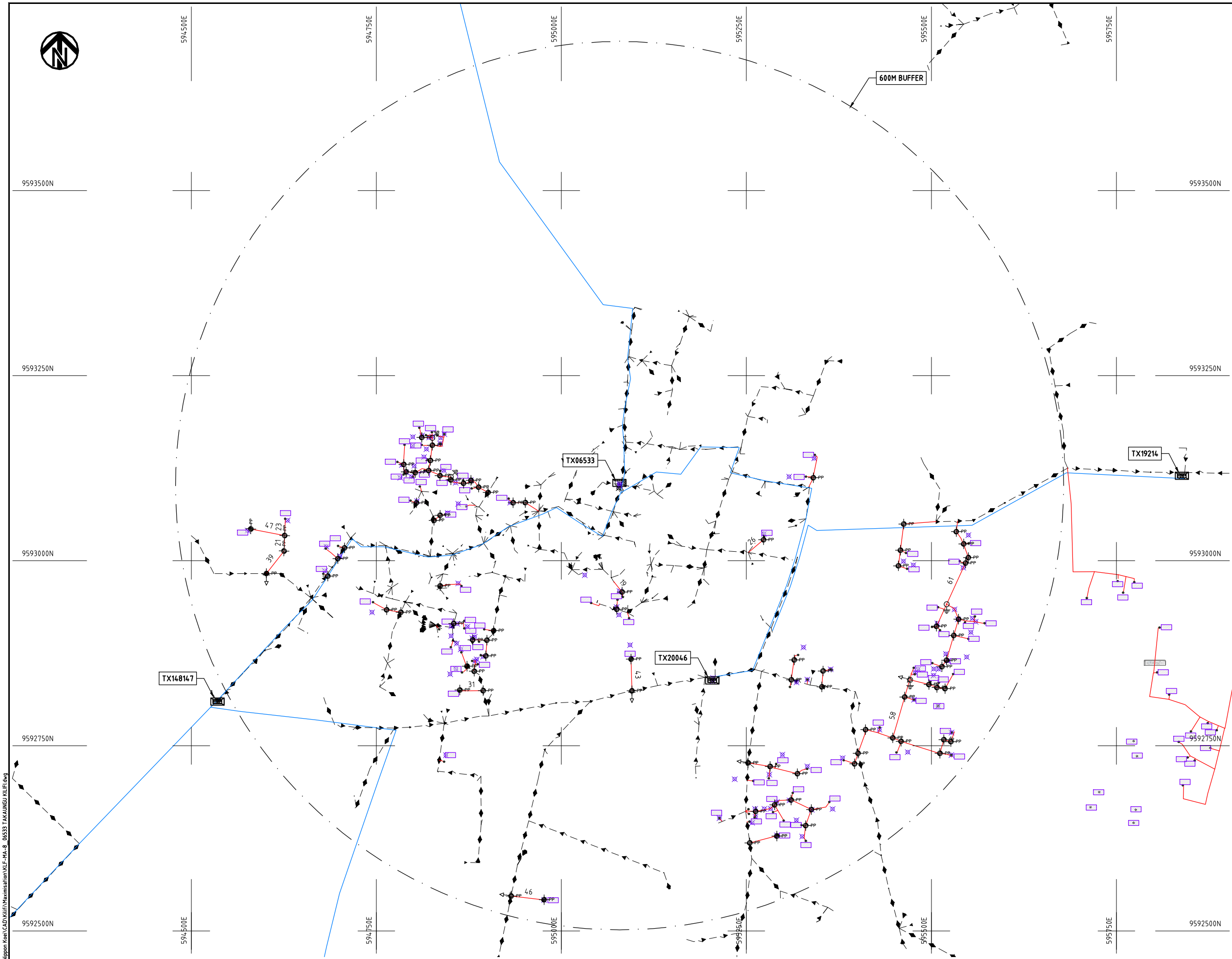


KEY PLAN

- 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



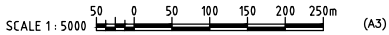
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- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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 5. POLES NOT SHOWN WHERE PME OR LV EARTH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

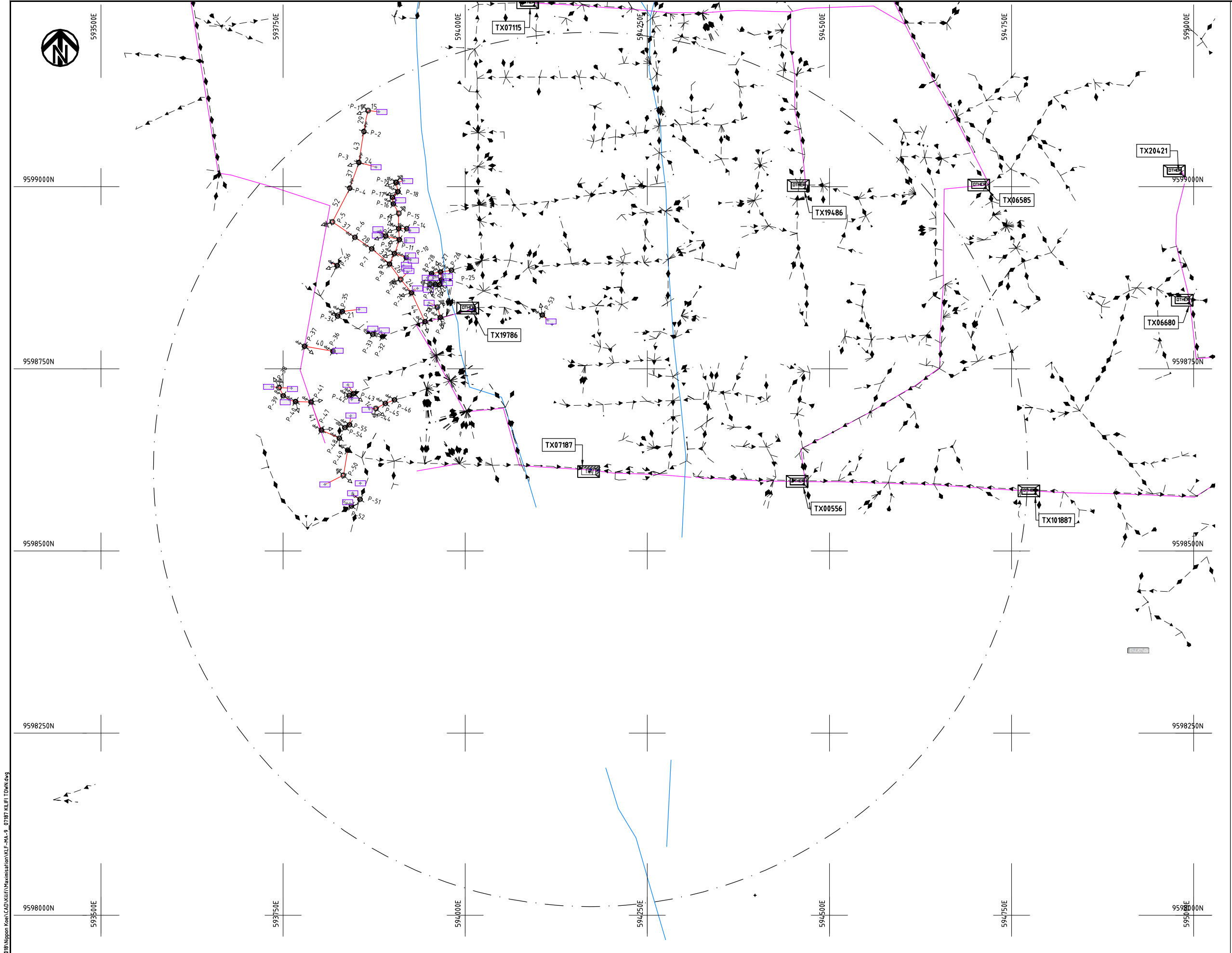
LEGEND

- 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



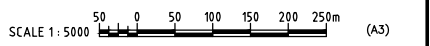
PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	KILIFI	KLF-MA-8	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	06533 TAKAUNGU KILIFI		DATE	10th SEP 2018





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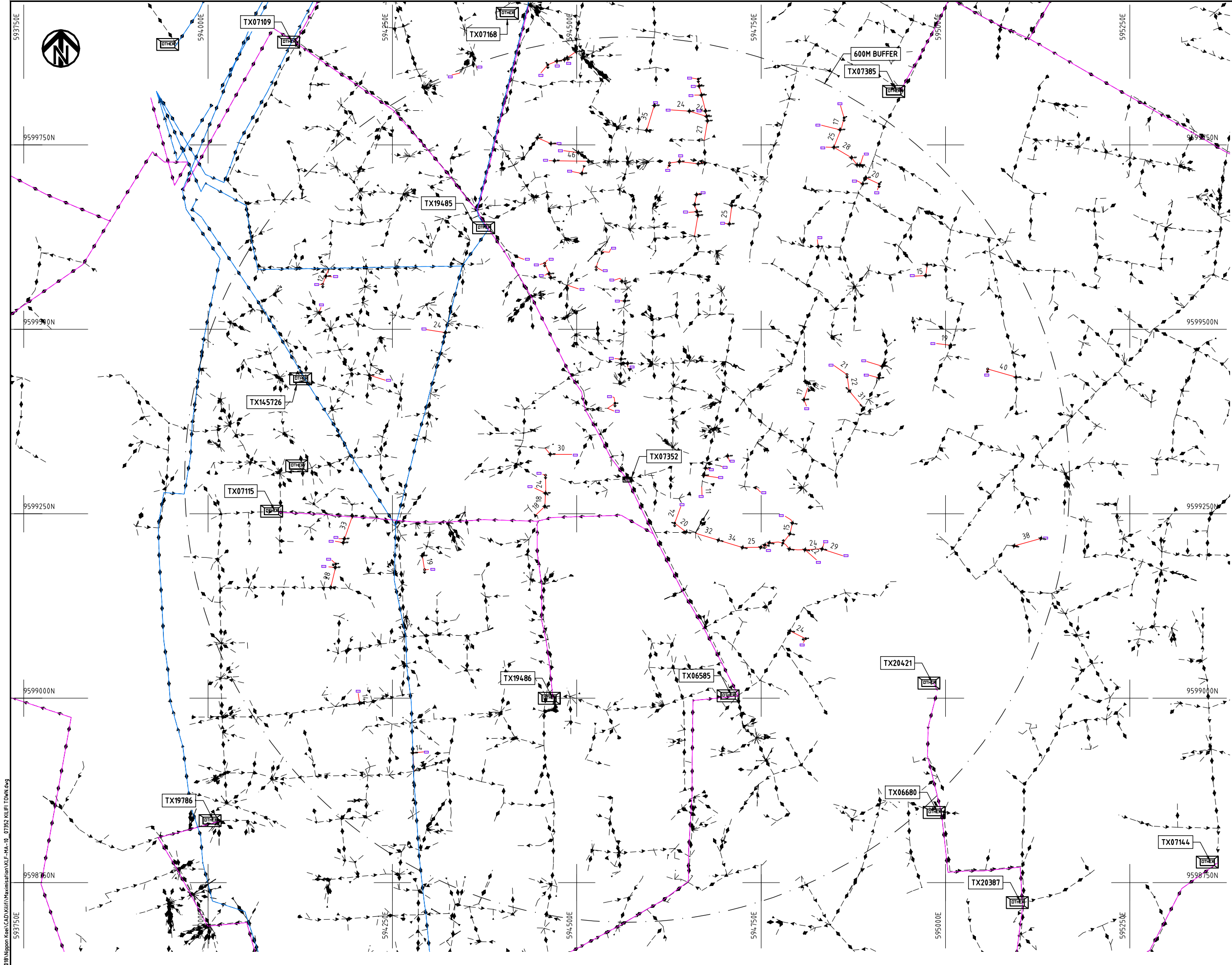
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE 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		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	KILIFI	KLF-MA-9	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	07187 KILIFI TOWN		DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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LEGEND

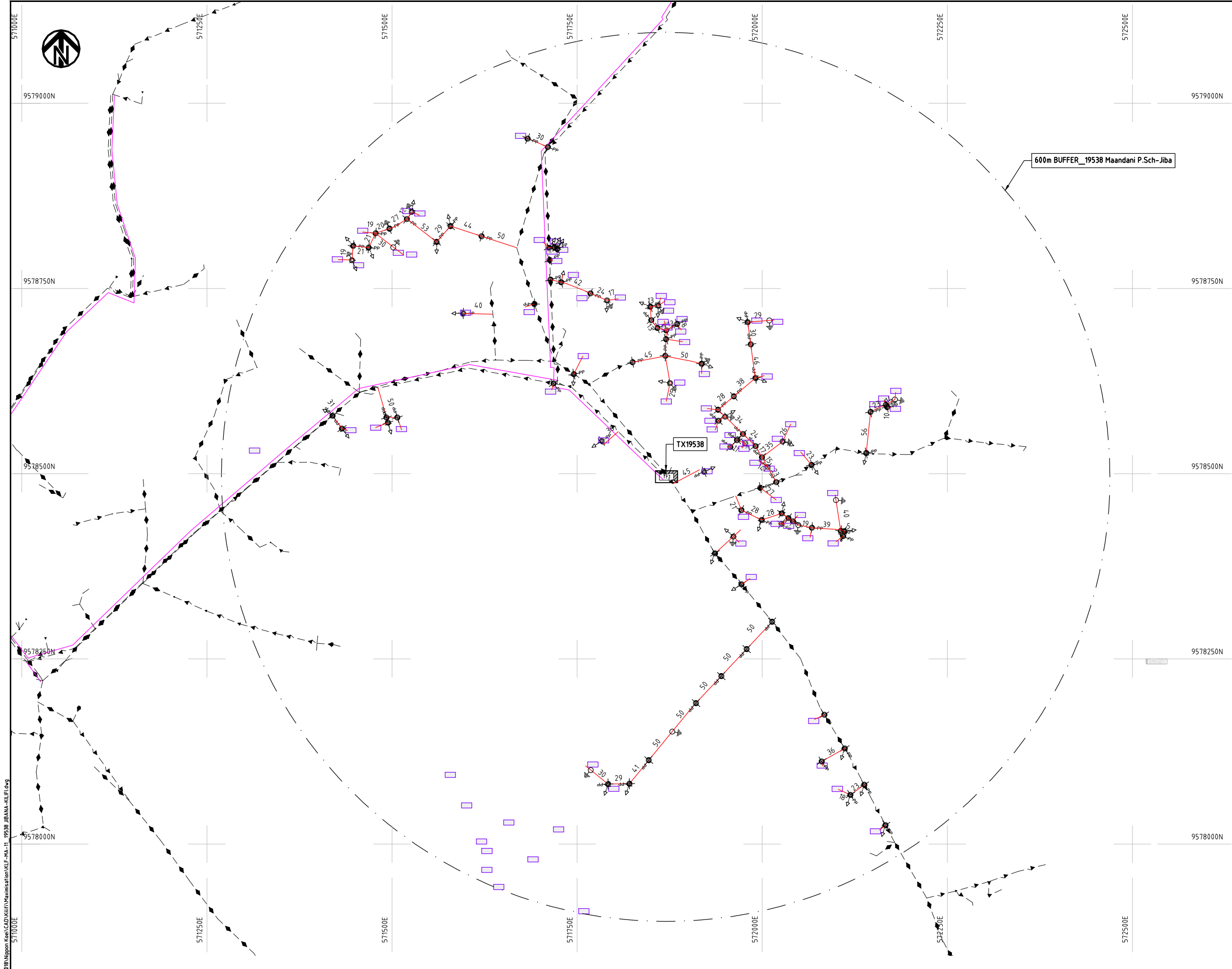
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- 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		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	KILIFI	KLF-MA-10	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	07352-KILIFI TOWN		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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 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

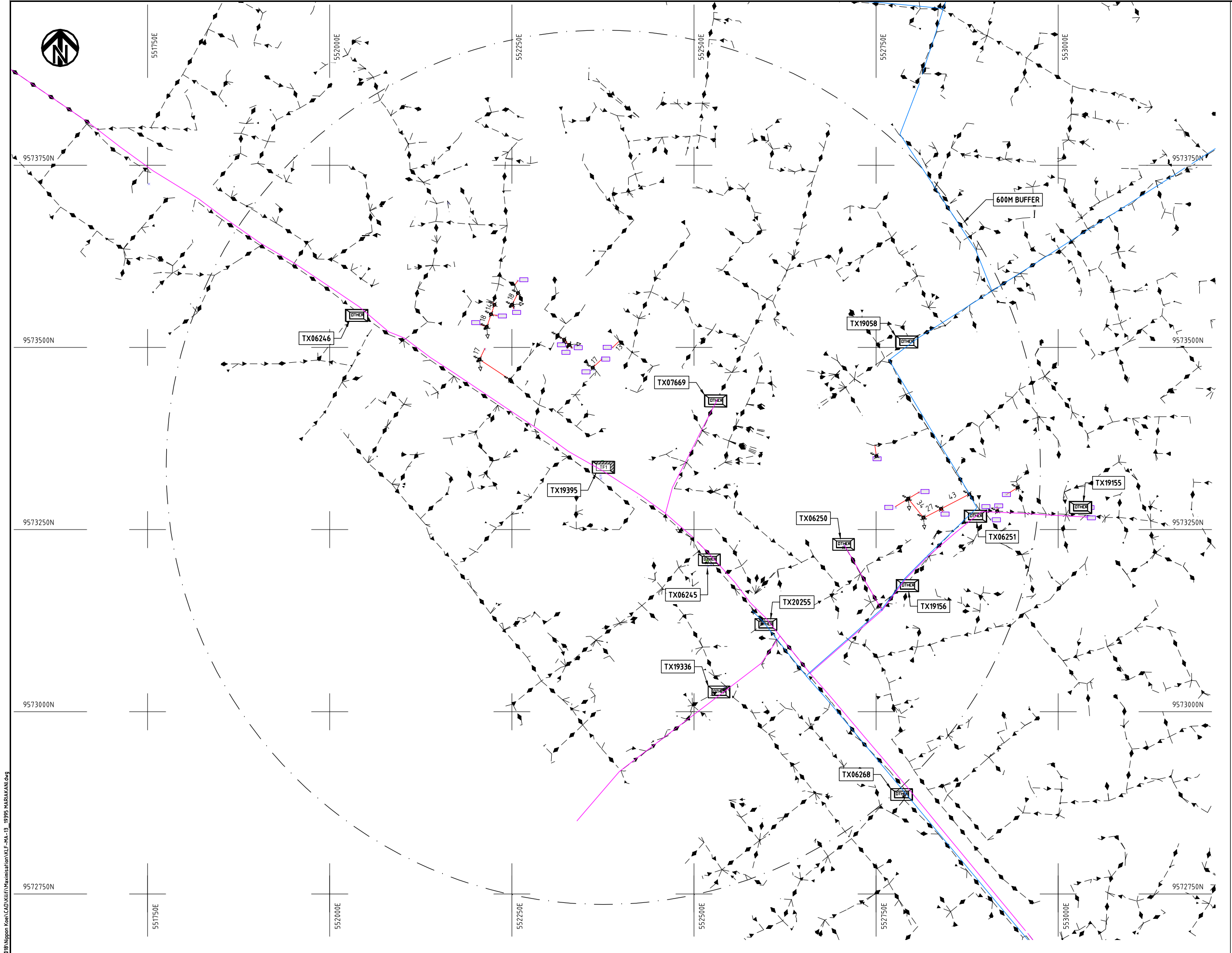
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



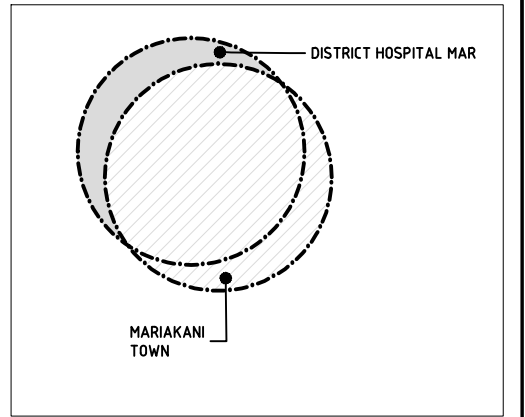
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PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	KILIFI	KLF-MA-11	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA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



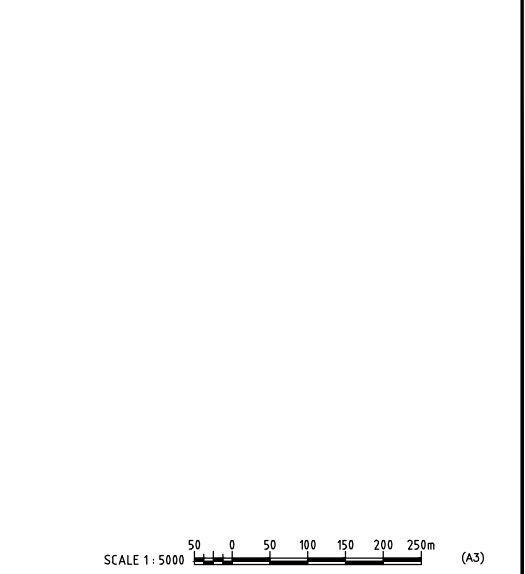


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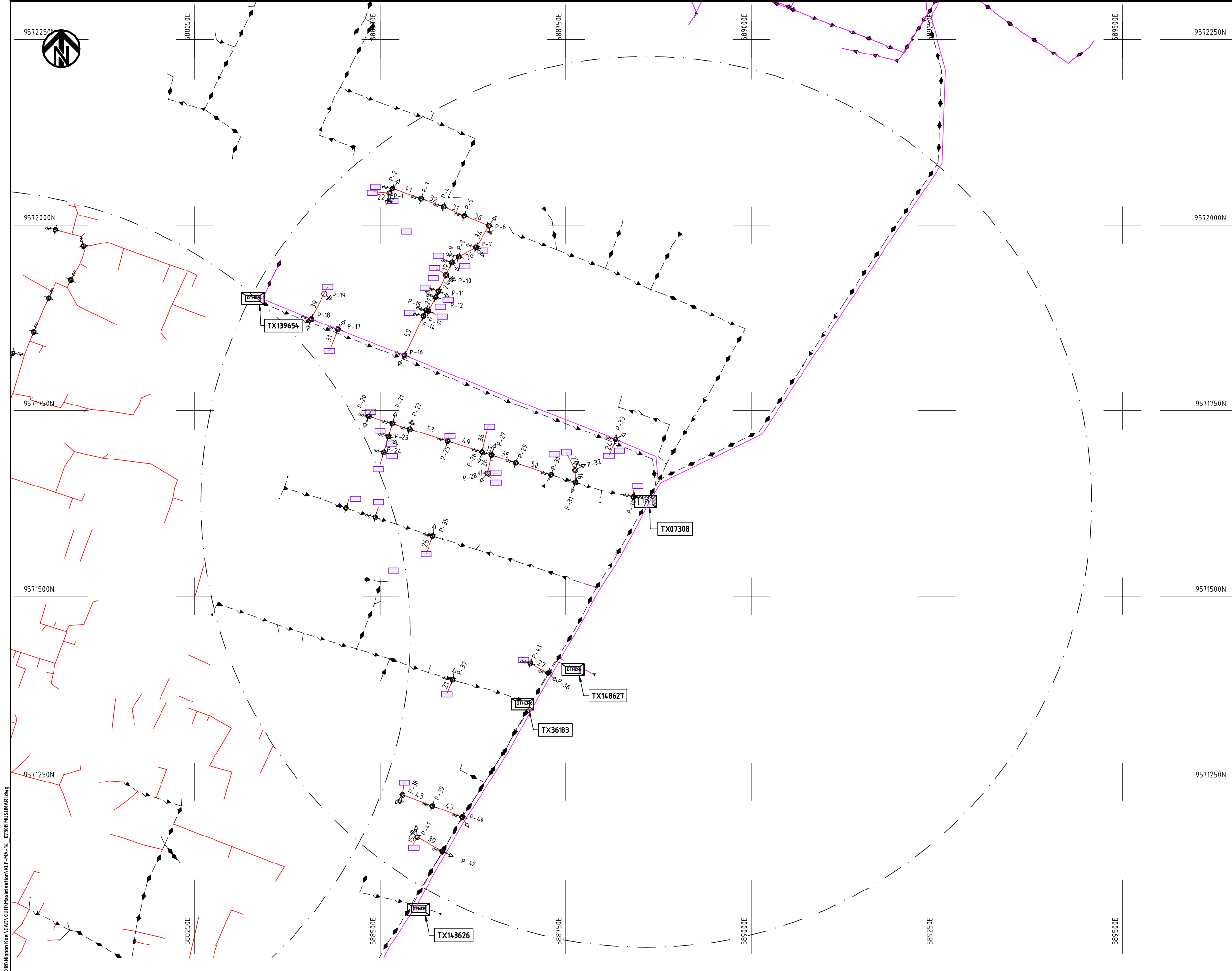
KEY PLAN

- 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



Cdr File No. DA/Enrk-Prj/2018	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 PROJECT SITE: 19395 MARIAKANI		KLF-MA-13	CHECKED BY	S.MAETA	
					APPROVED BY	Y.TANAKA	
					DATE		10th SEP 2018

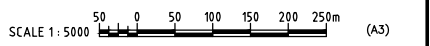
 NIPPON KOEI CO., LTD



- NOTES:**
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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

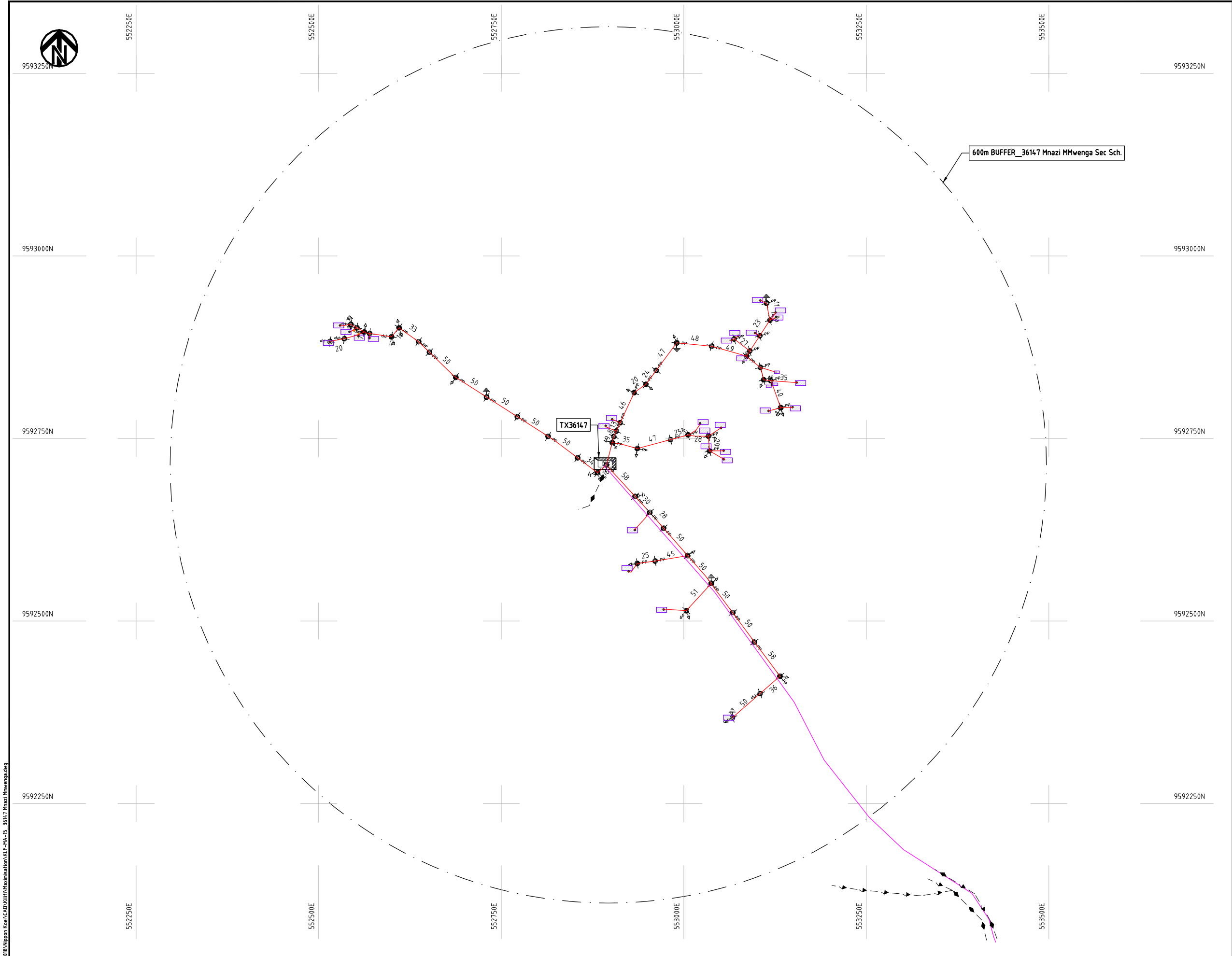


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PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	KILIFI	KLF-MA-14	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA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



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NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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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: 36147 MNAZIMWENGA

DRAW. NO.

KLF-MA-15

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

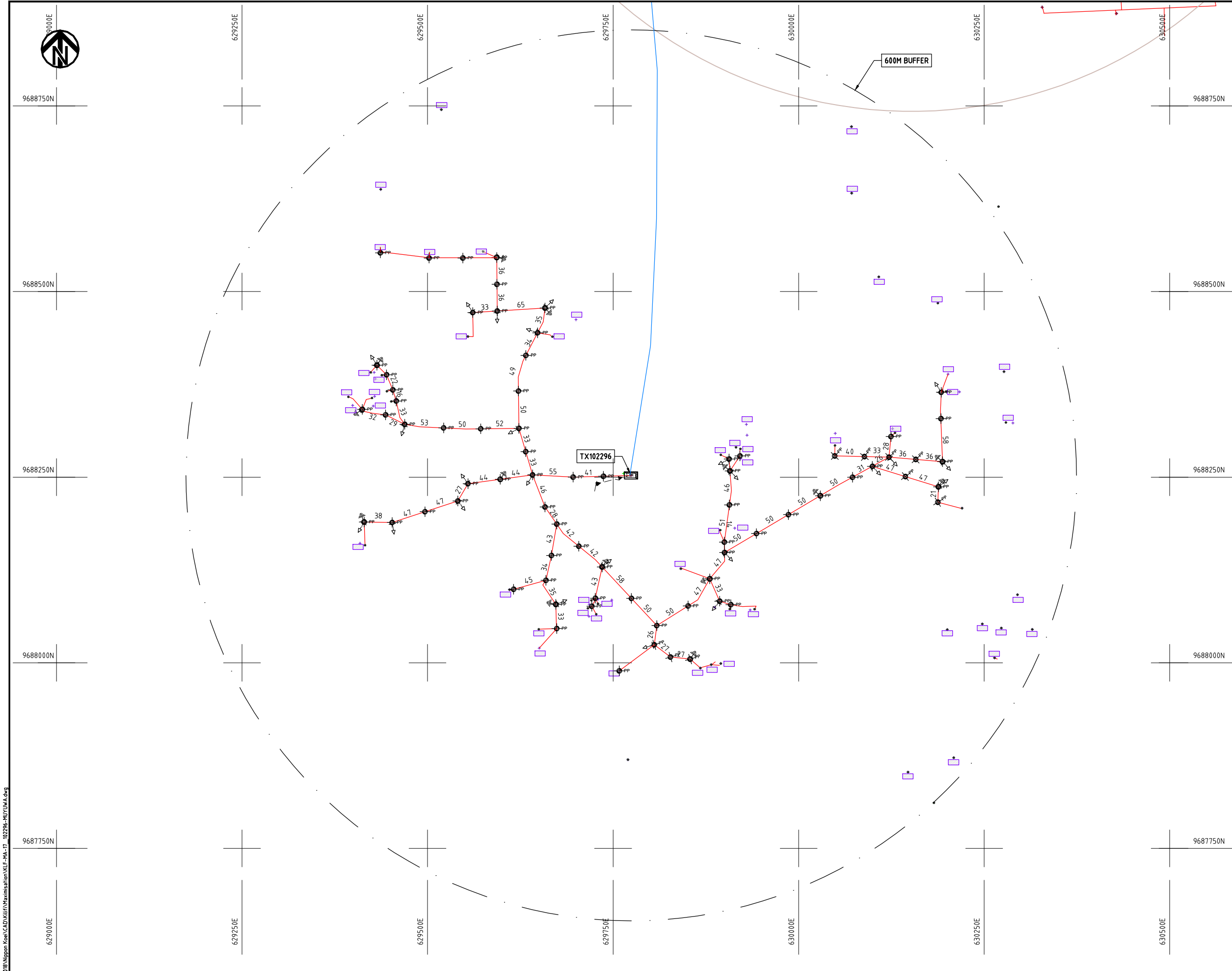
Y.TANAKA

DATE

10th SEP 2018



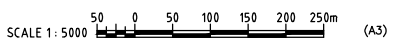
NIPPON KOEI CO., LTD



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LEGEND

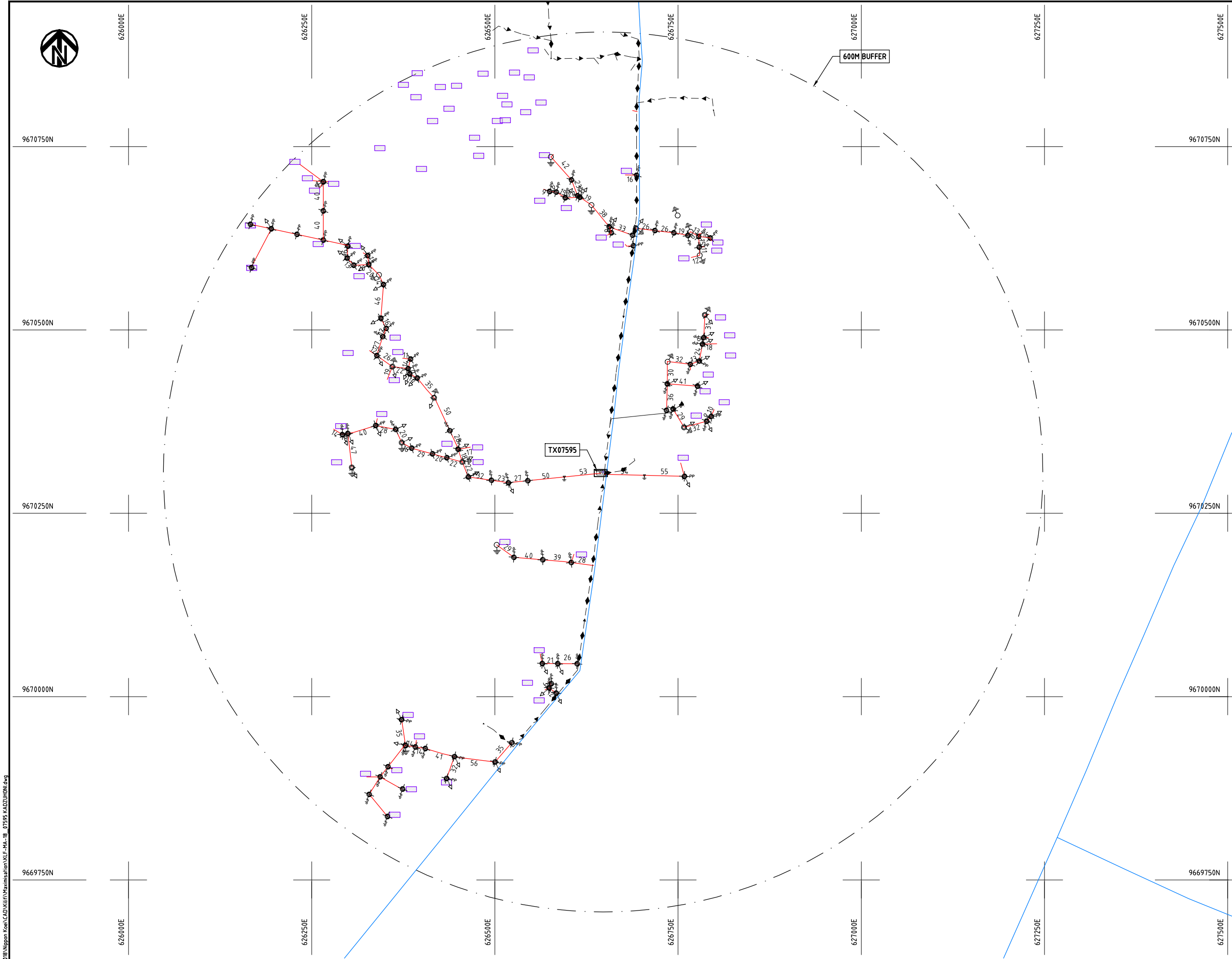
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH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



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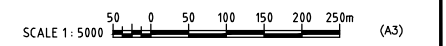


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- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - PP WOODEN ELECTRIC POLES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

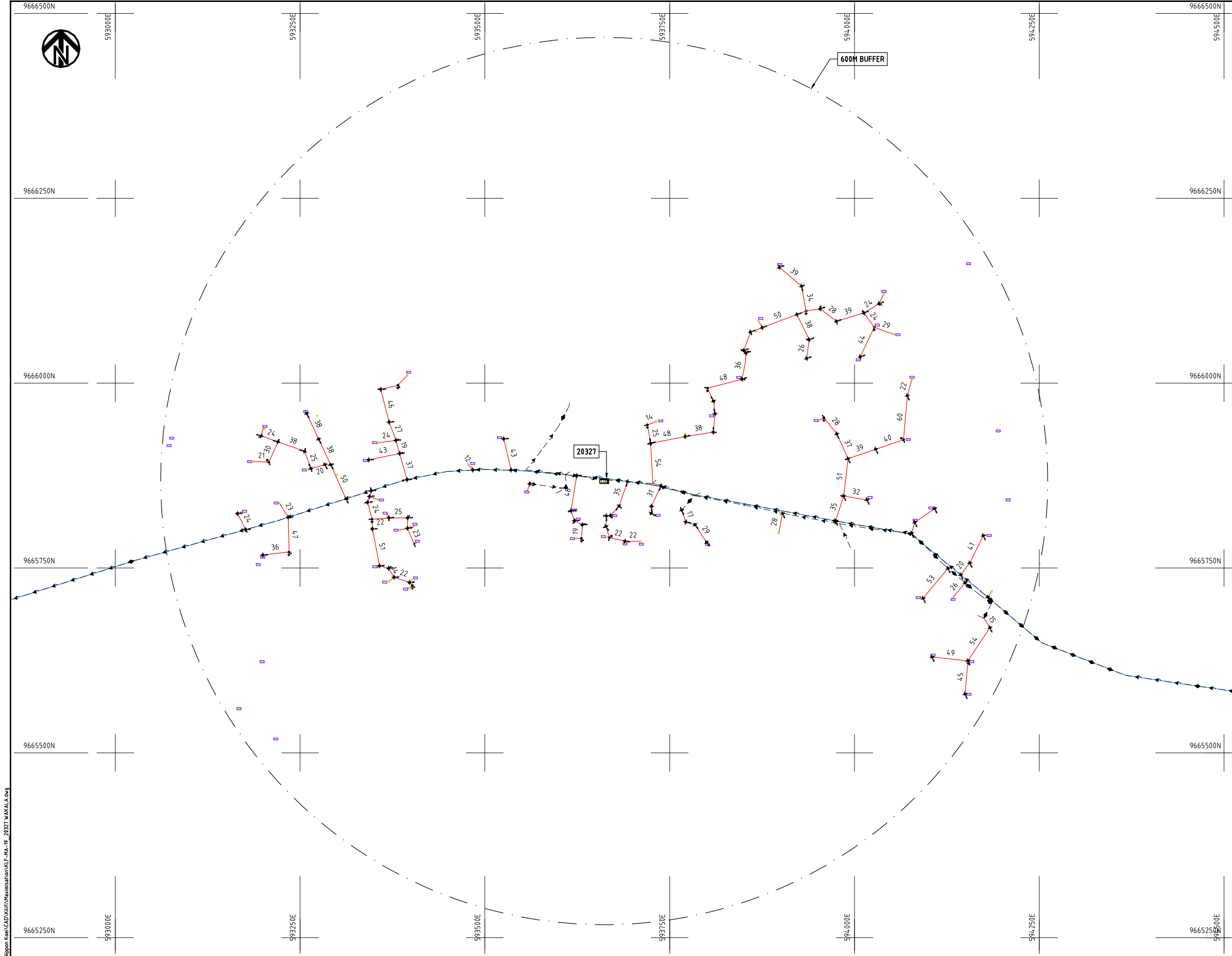


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PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07595 KADZUHONI		KLF-MA-18	CHECKED 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.
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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 50 0 50 100 150 200 250m (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: 20327-WAKALA

DRAW. NO.

KLF-MA-19

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

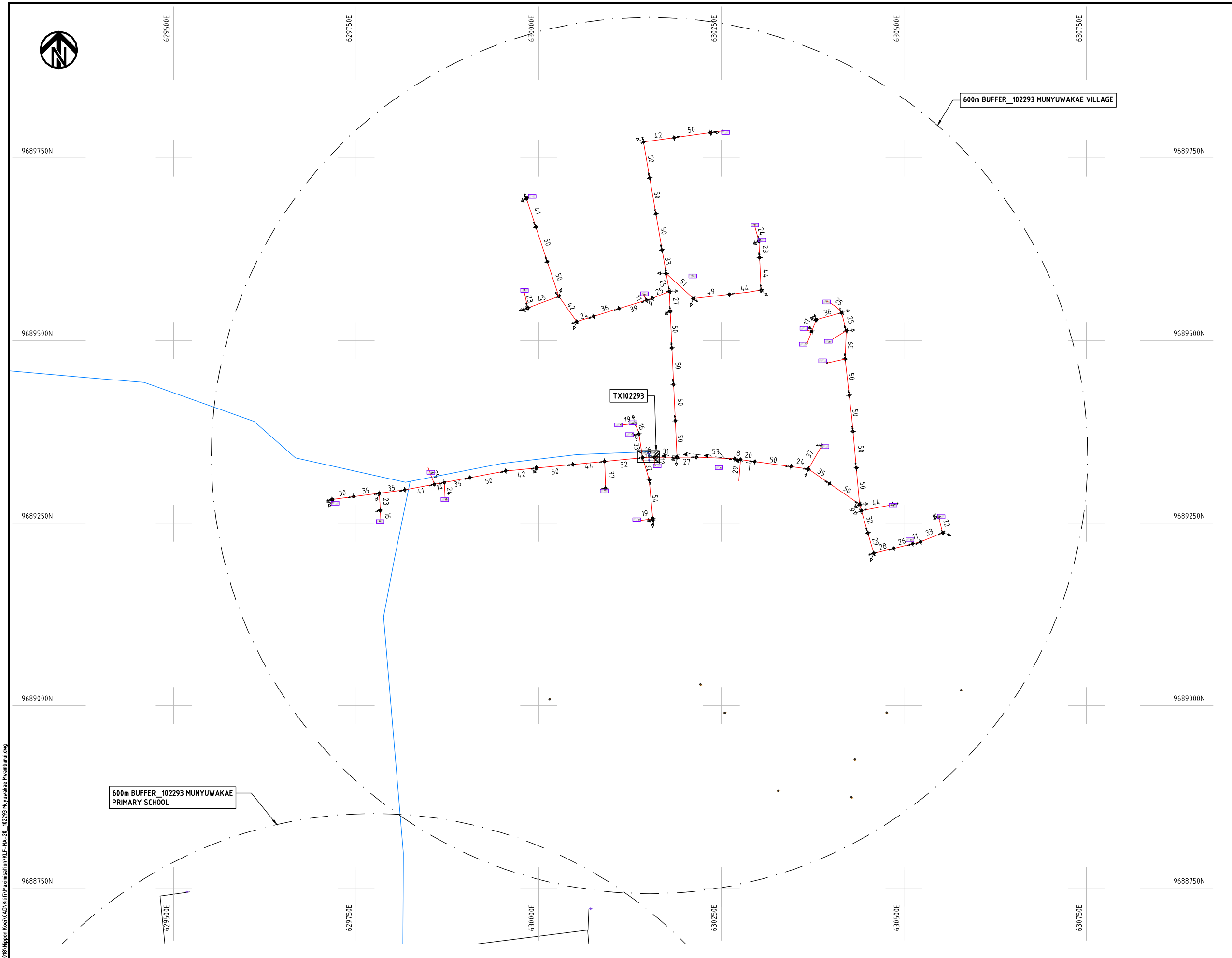
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



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1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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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: 102293 MUYUWAKAE Mwamburui

DRAW. NO.

KLF-MA-20

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

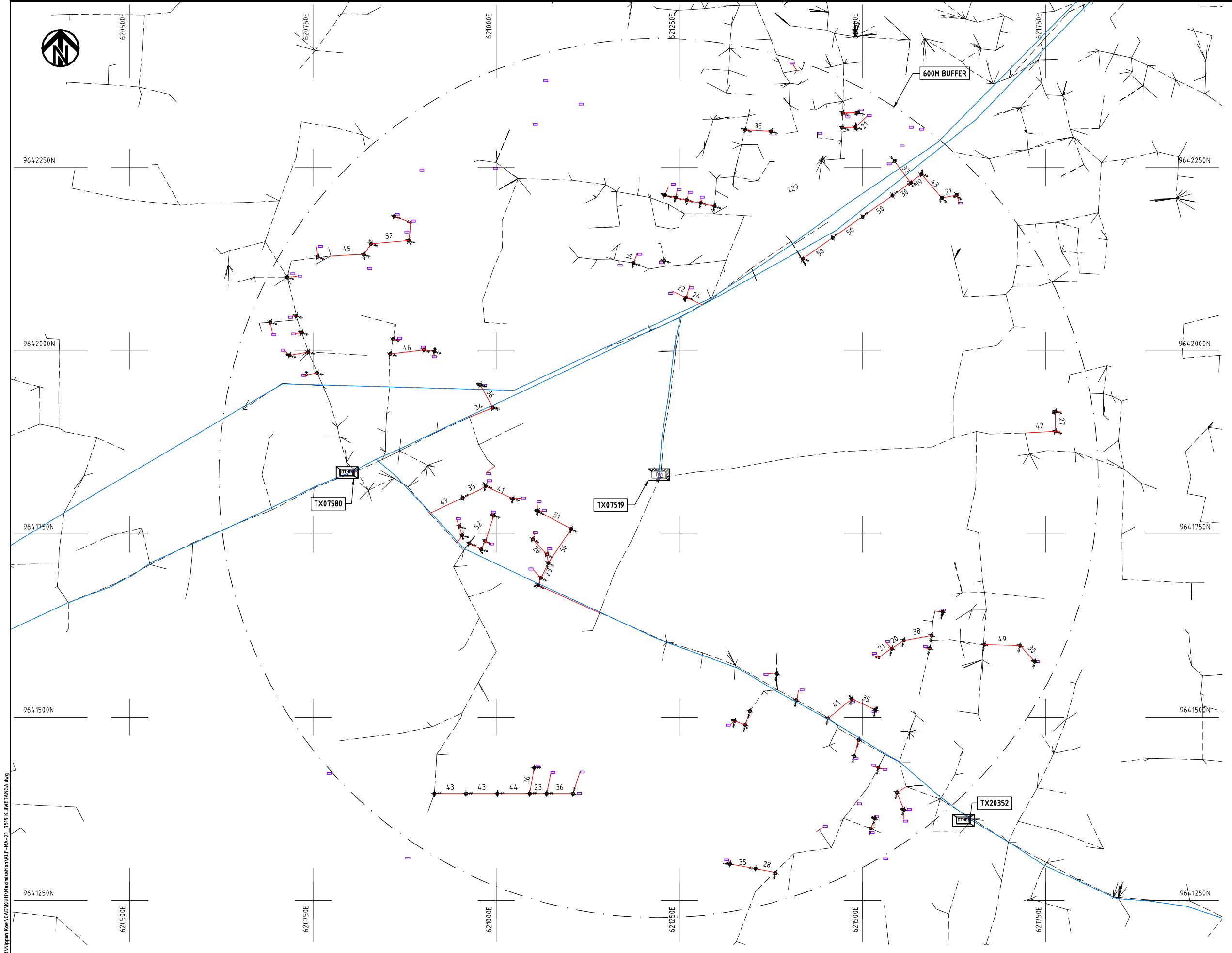
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

SCALE 1:5000 50 0 50 100 150 200 250m (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.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

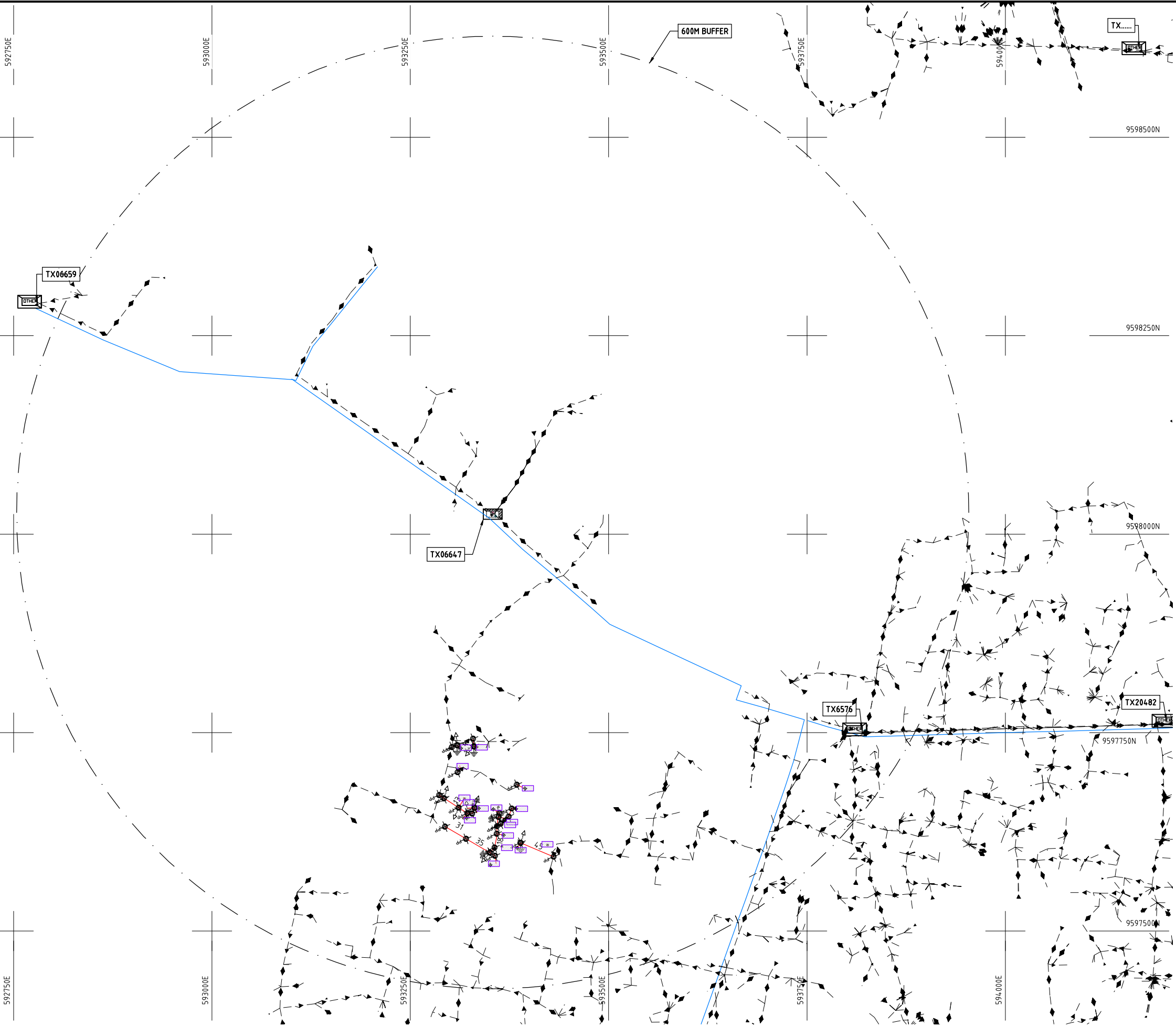
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



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

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	KLF-MA-21	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	07519-KIJIWETANGA		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)

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: 06647 KILIFI

DRAW. NO.

KLF-MA-22

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

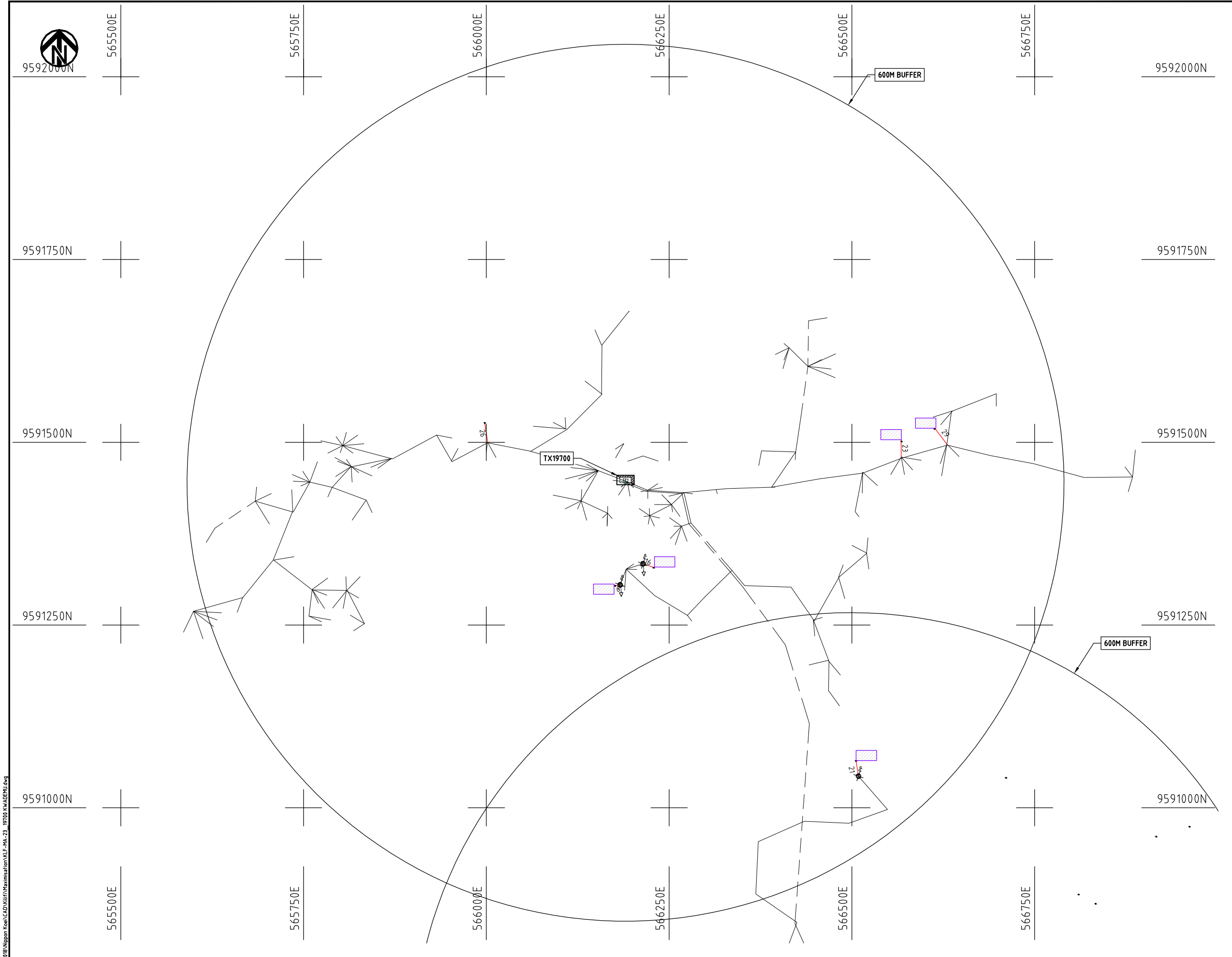
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximization\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
- 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: 19700- KWADEMU

DRAW. NO.

KLF-MA-23

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

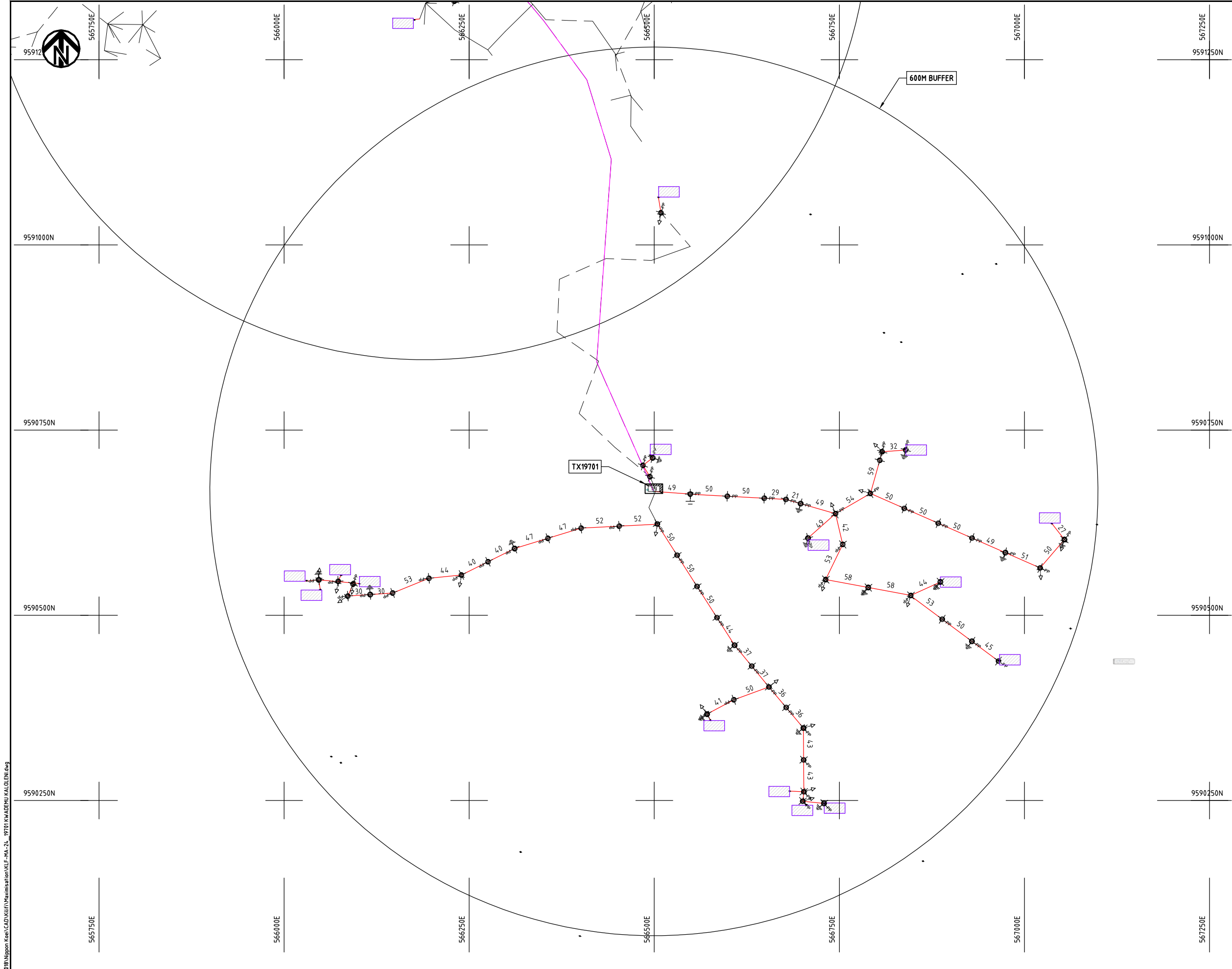
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-24_19701-KWADEMU KALOENI.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

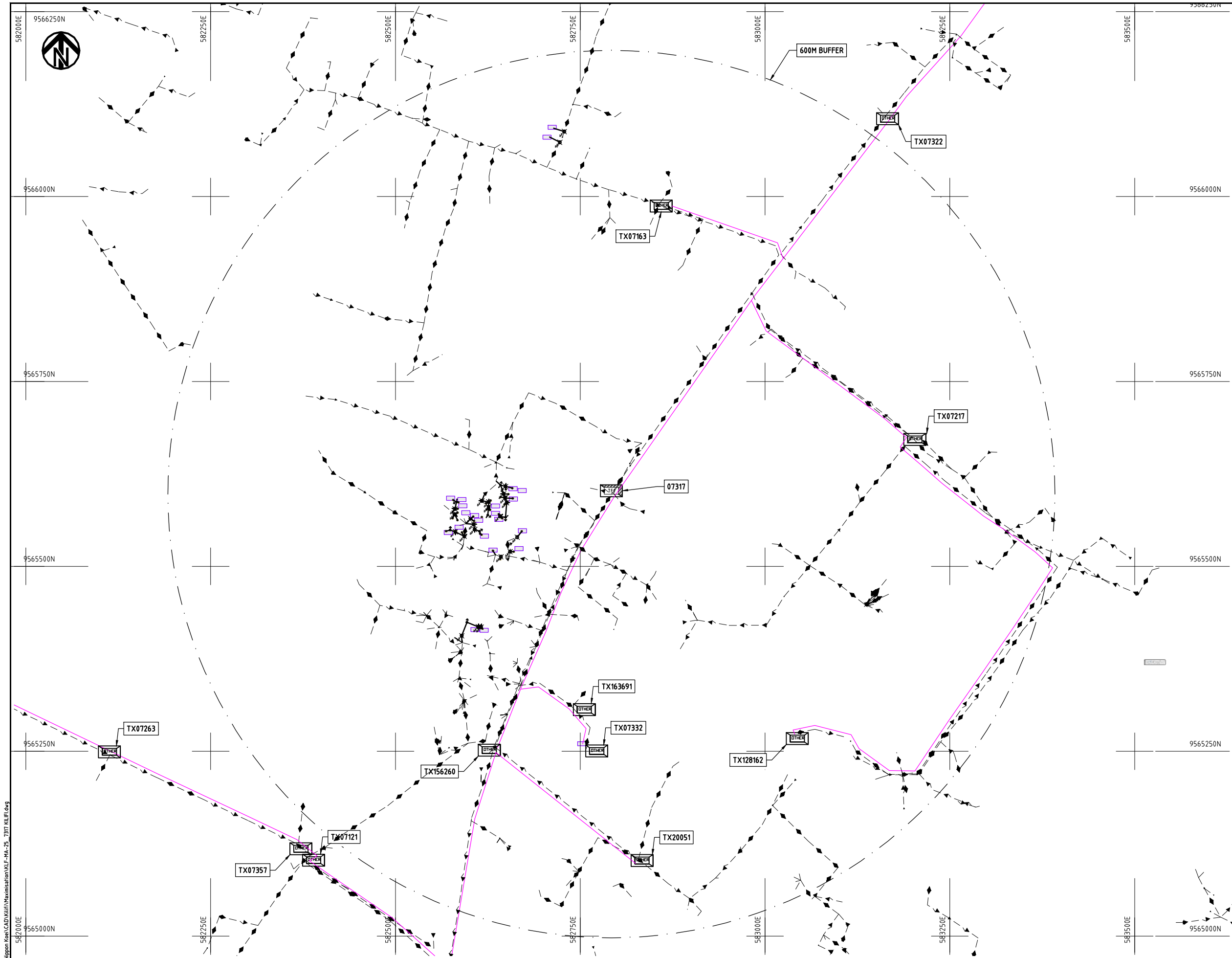
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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

SCALE 1: 5000 (A3)

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	KLF-MA-24	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	19701 - KWADEMU KALOENI		DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-25_7317 KILIF.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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

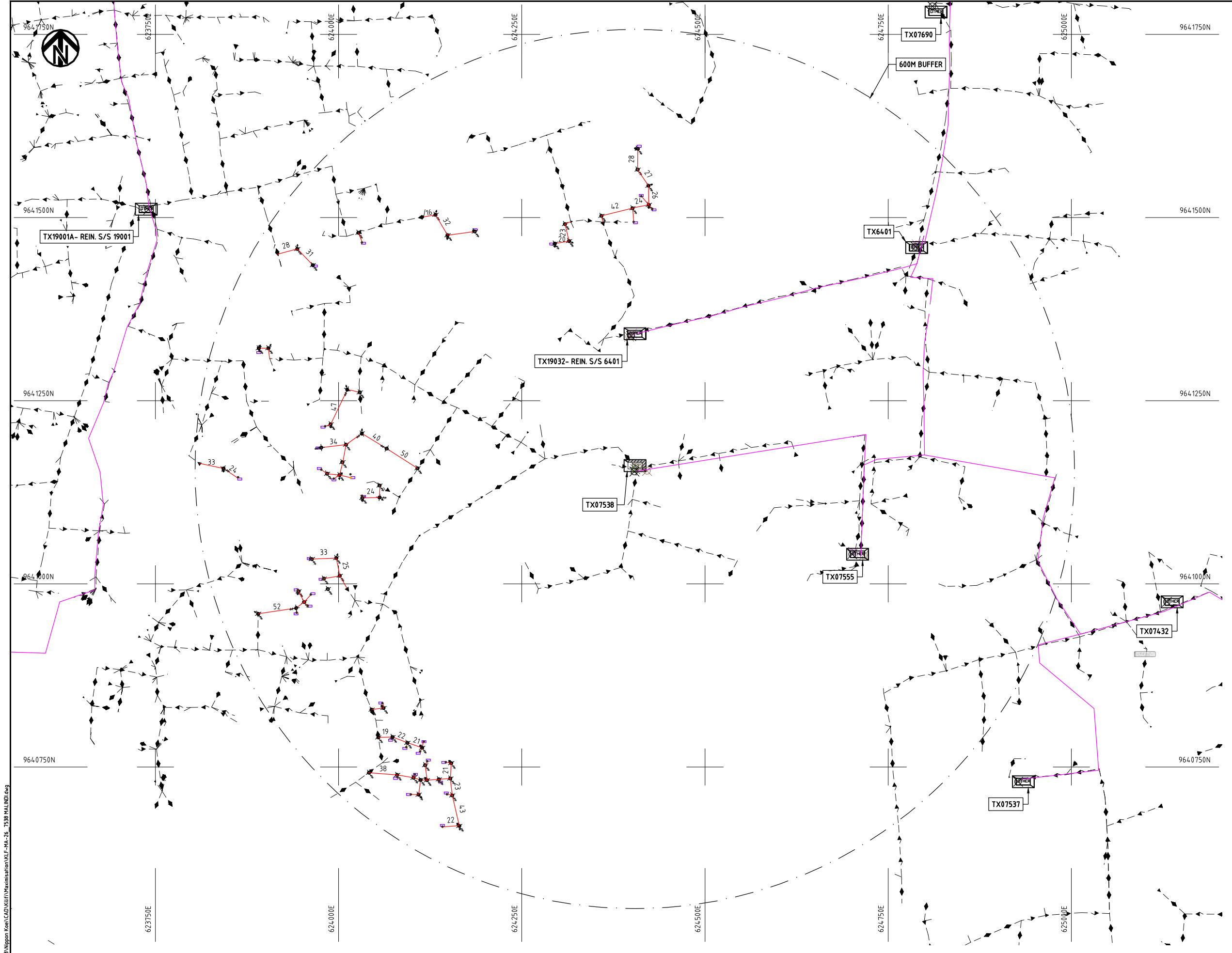
SCALE 1: 5000 (A3)

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: 07317-KILIFI

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-25	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018

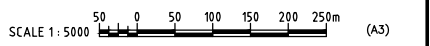




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE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

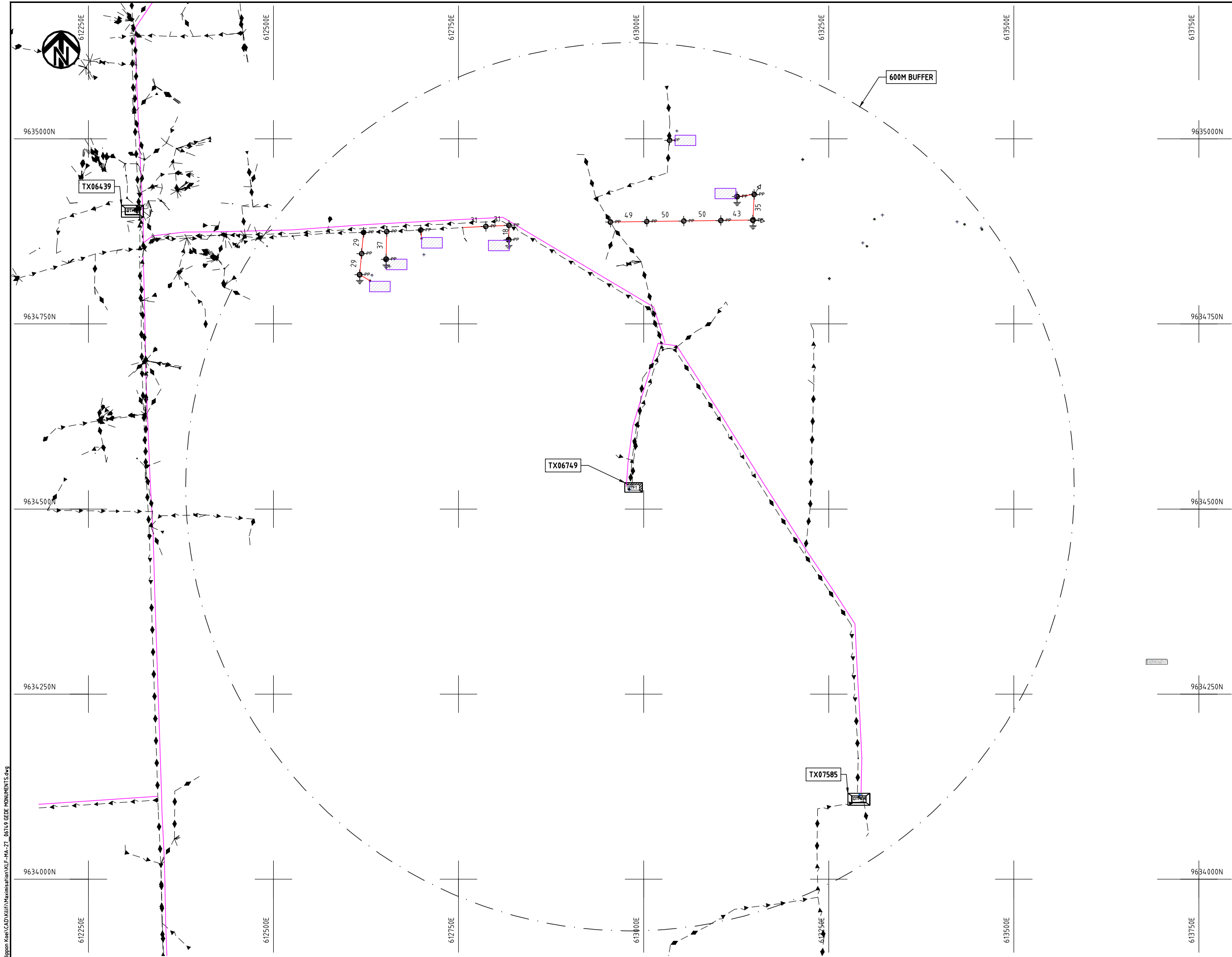


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PROJECT:	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA		KLF-MA-26	CHECKED BY	S.MAETA
		COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07538-MALINDI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



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-27_06149 GEDE MONUMENTS.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
- 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: 06749 GEDE MONUMENTS

DRAW. NO.

KLF-MA-27

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

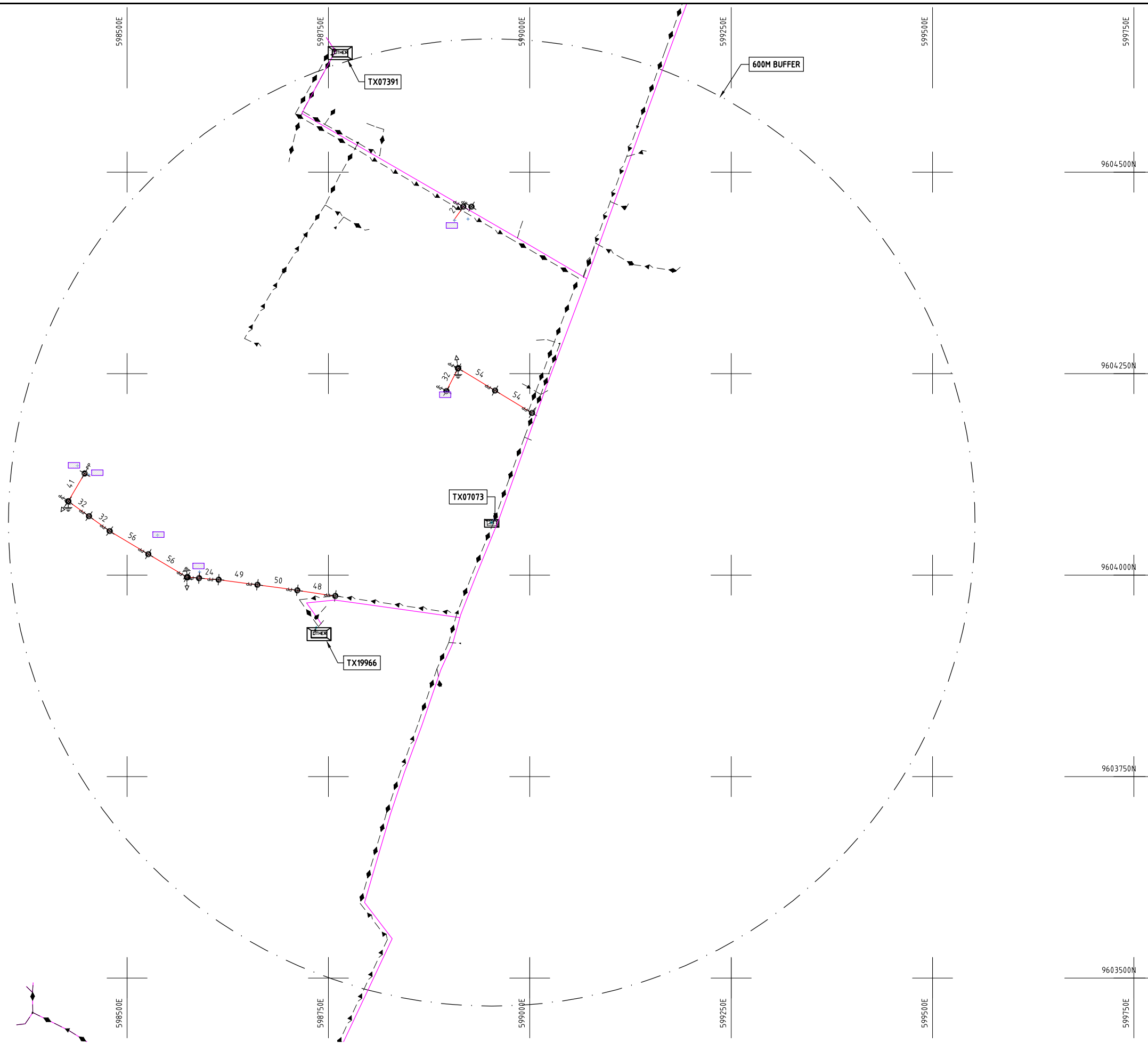
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10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-28_07073 B0FA.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
- 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: 07073 B0FA

DRAW. NO.

KLF-MA-28

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

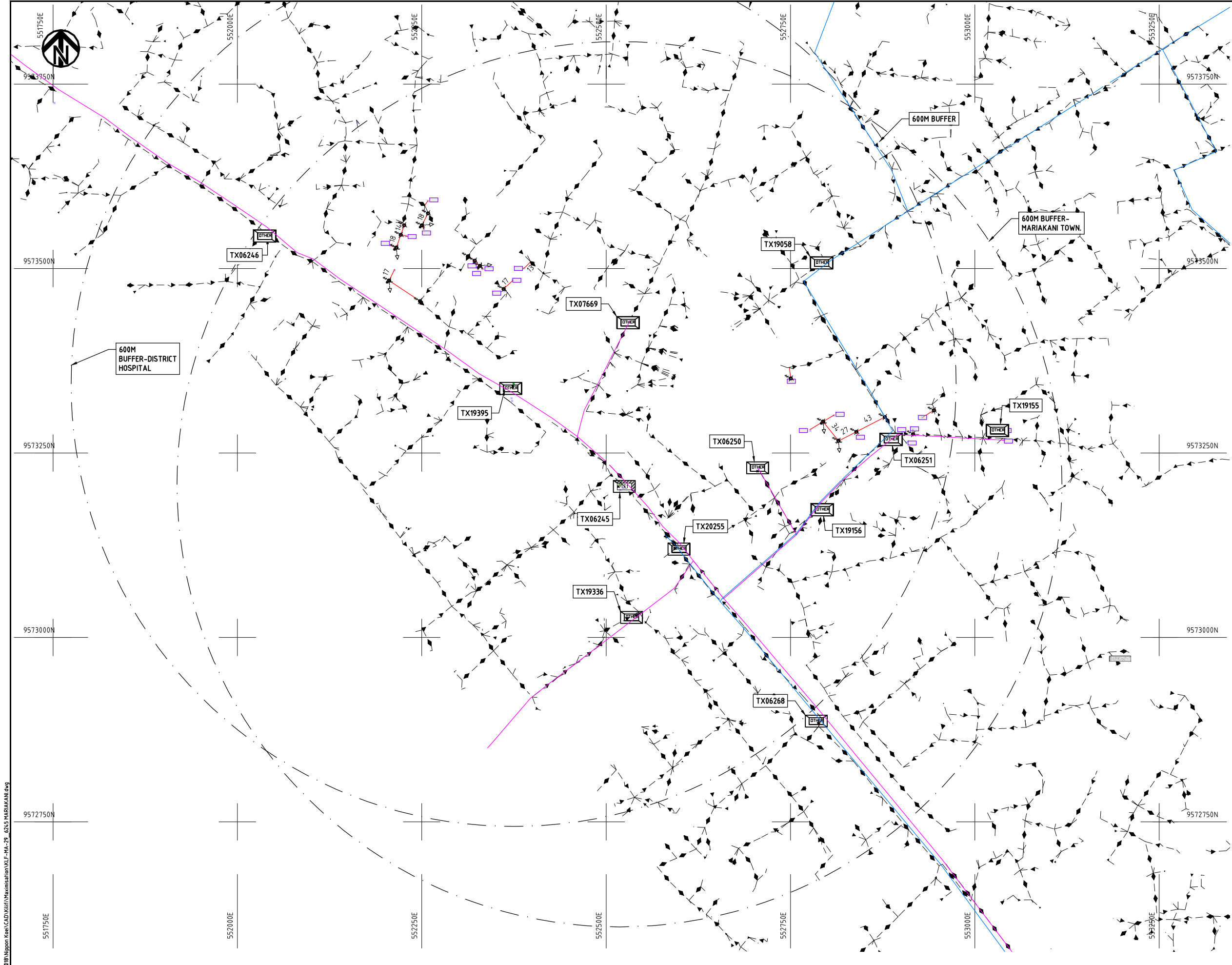
Y.TANAKA

DATE

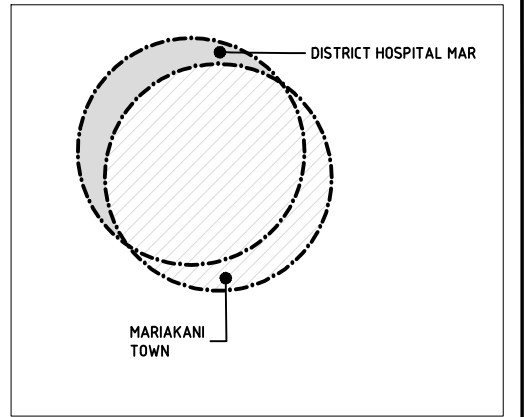
10th SEP 2018



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

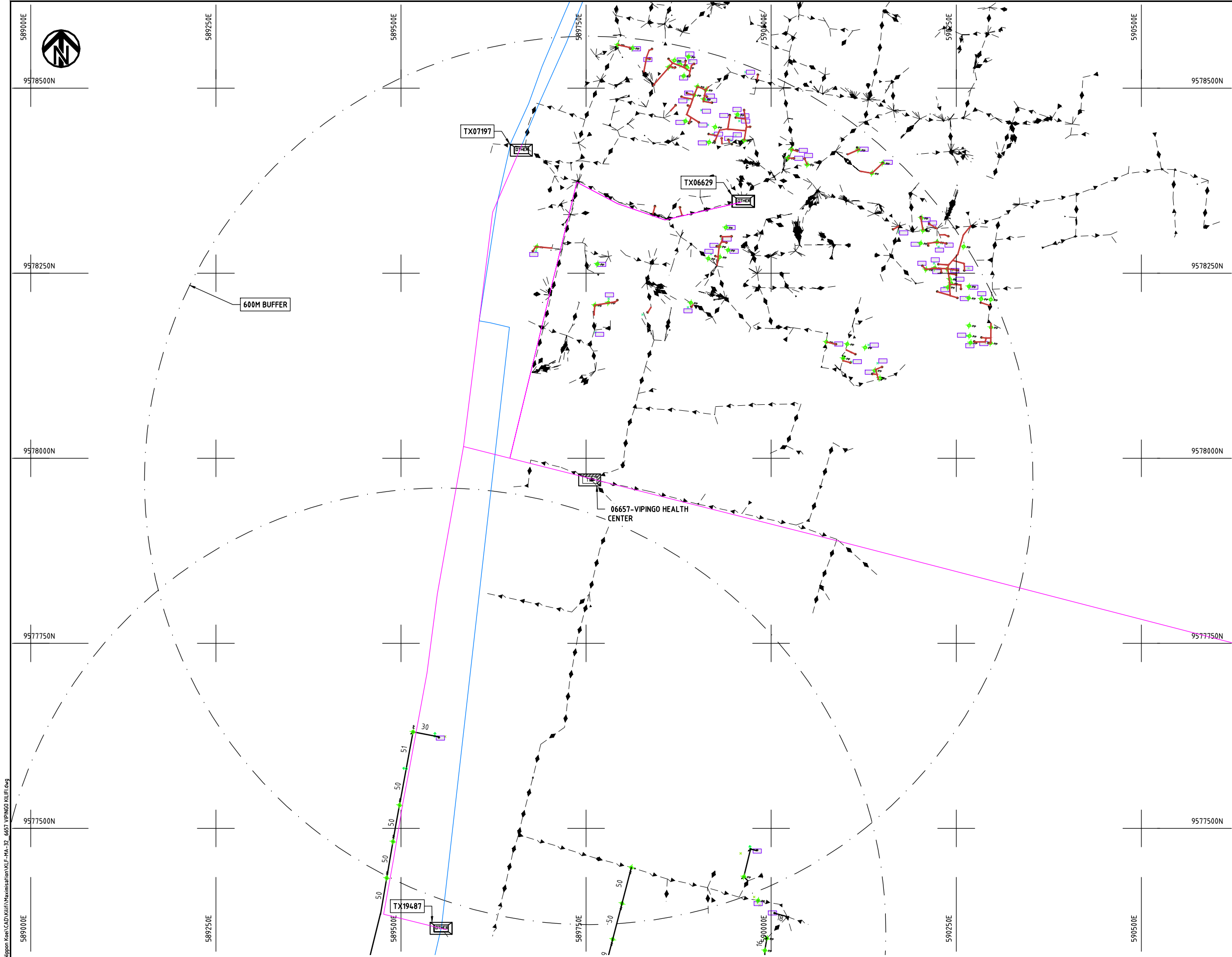
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



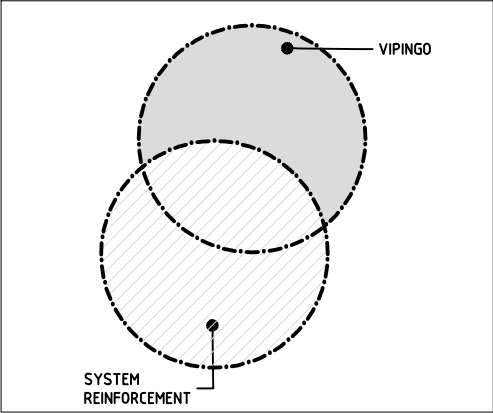
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PROJECT:	DRAWING TITLE		DRAW. NO.		PREPARED BY	
			KLF-MA-29		A.AKBAR	
			DATE		10th SEP 2018	
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA		COUNTY: KILIFI		CHECKED BY		S.MAETA
		SCHEME: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





- 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

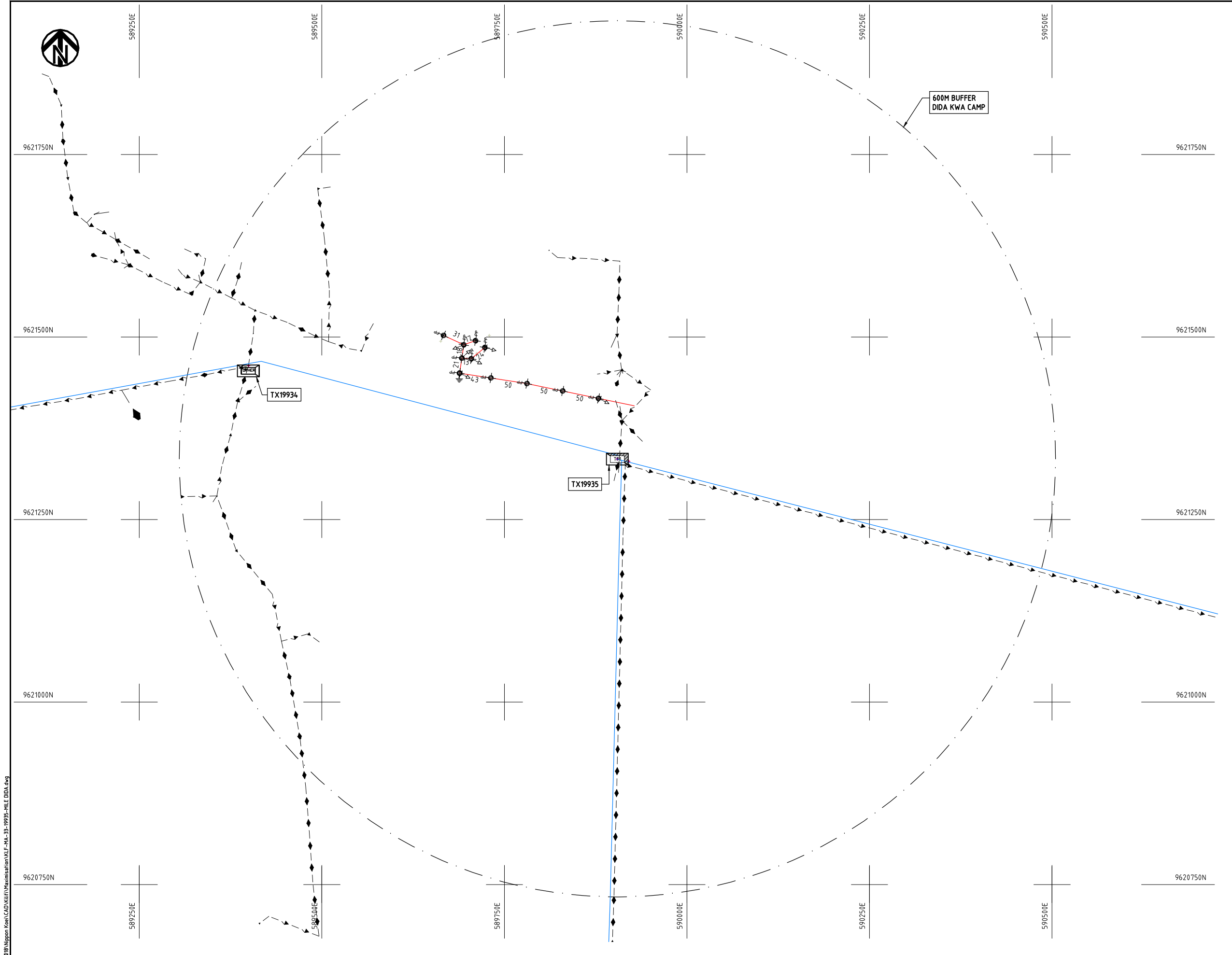
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PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	KILIFI	KLF-MA-32	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA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



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-33-19935-MILE DIDA.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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

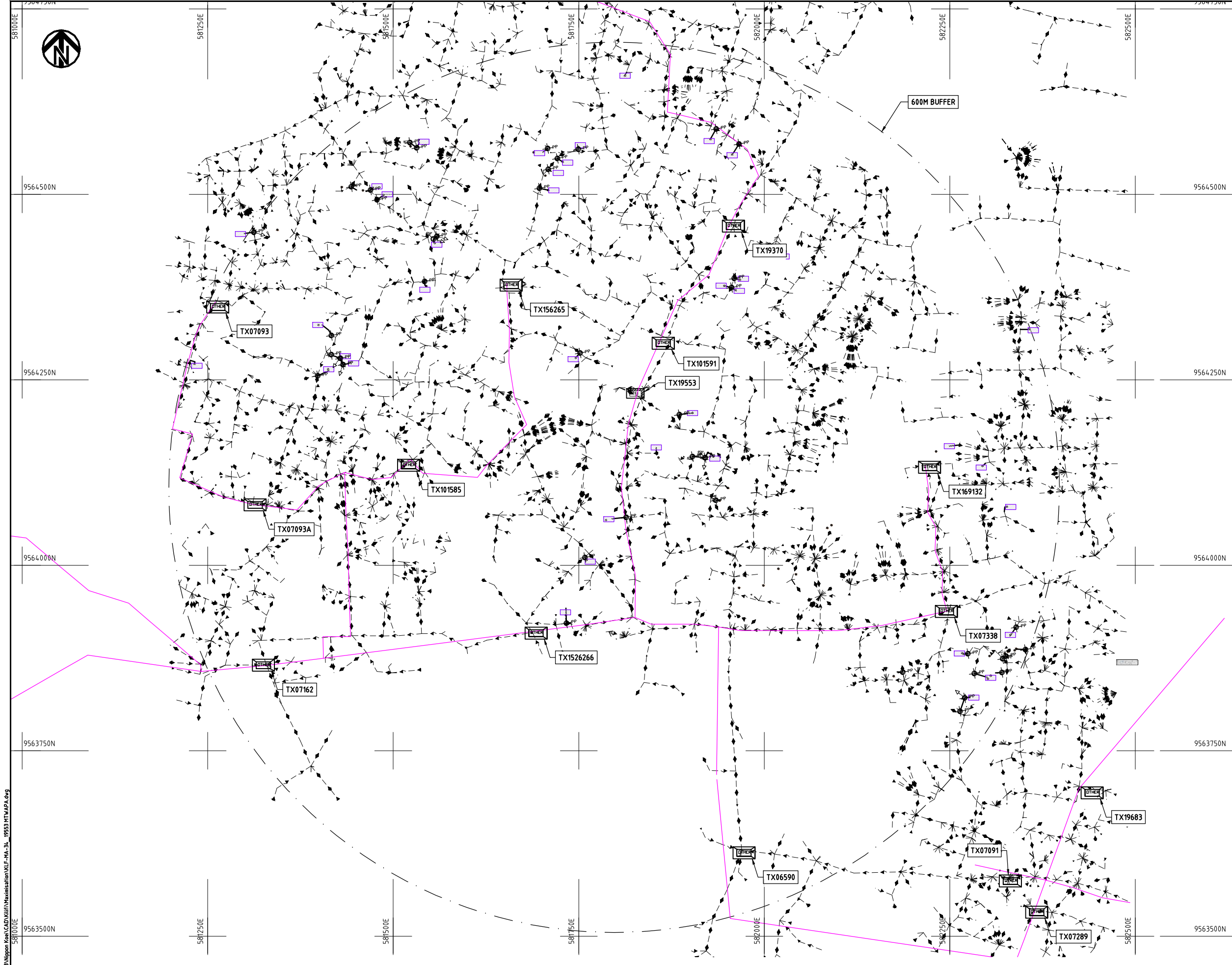
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PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE
COUNTY: KILIFI
SCHEME: MAXIMIZATION
PROJECT SITE: 19935 MILE DIDA

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-33	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.

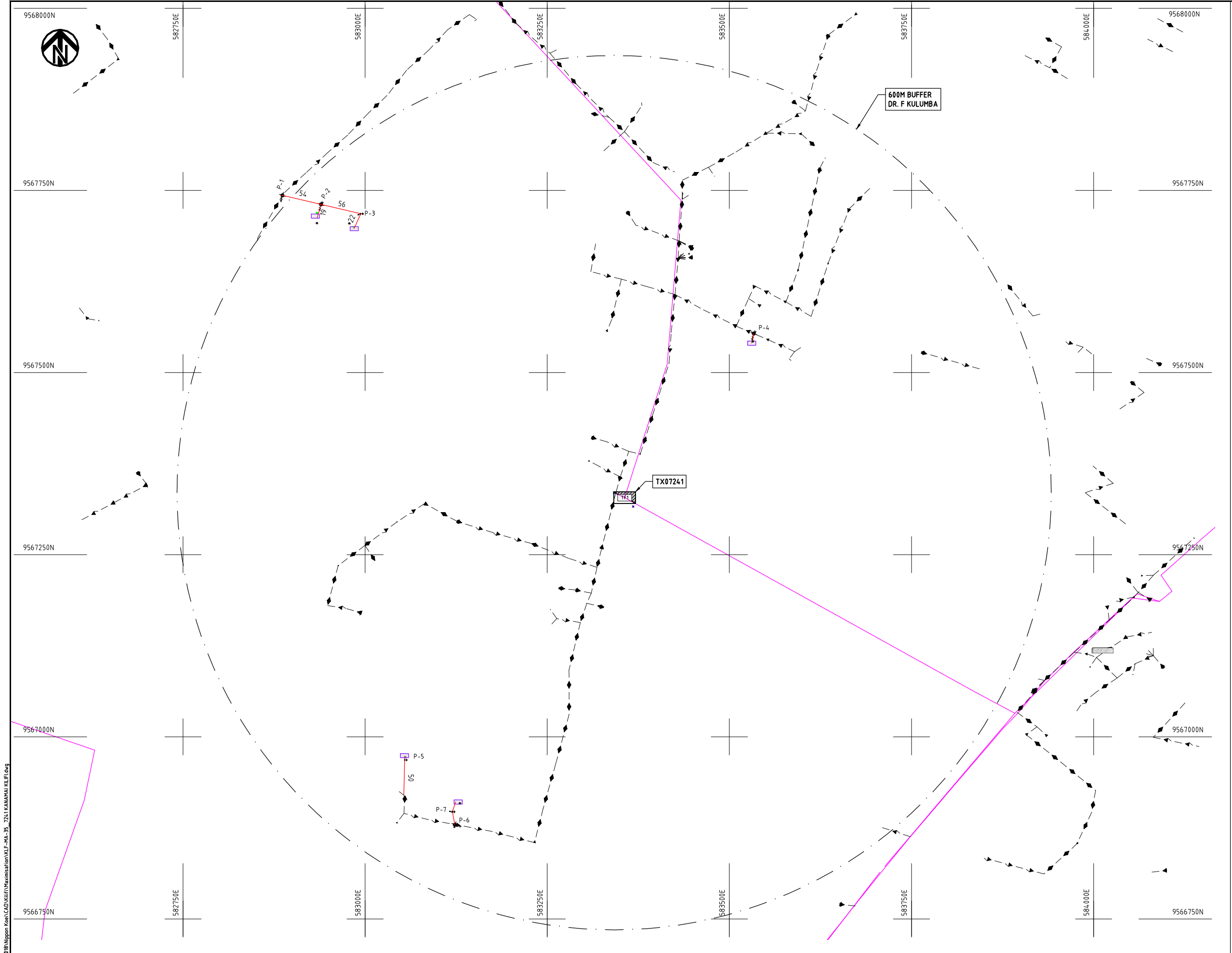
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



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

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 PROJECT SITE: 19553 MTWAPA		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

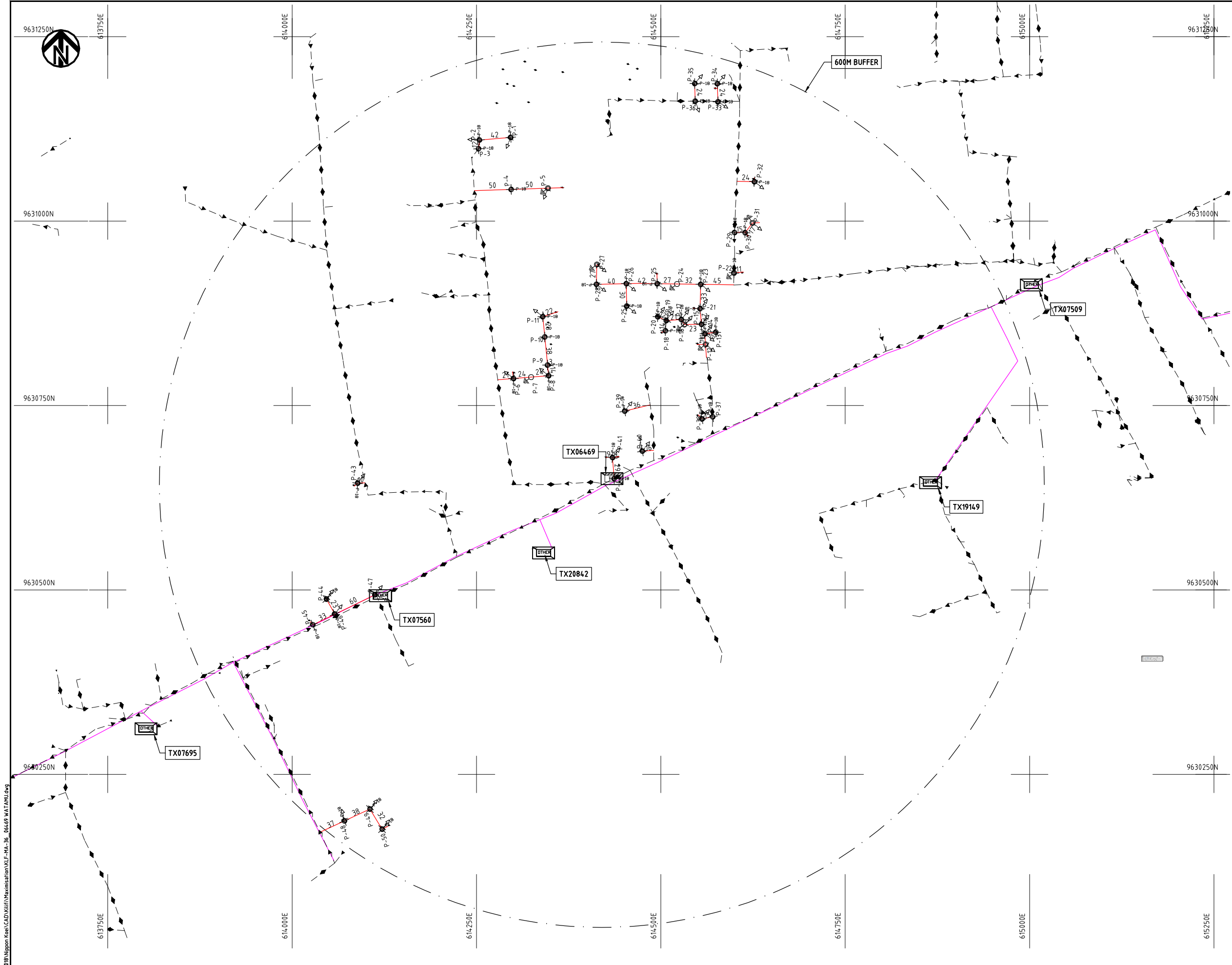
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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

SCALE 1:5000 (A3)

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-35_7241 KANAMAI KILIFI.dwg

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	KLF-MA-35	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	07241-KANAMAI 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.

LEGEND

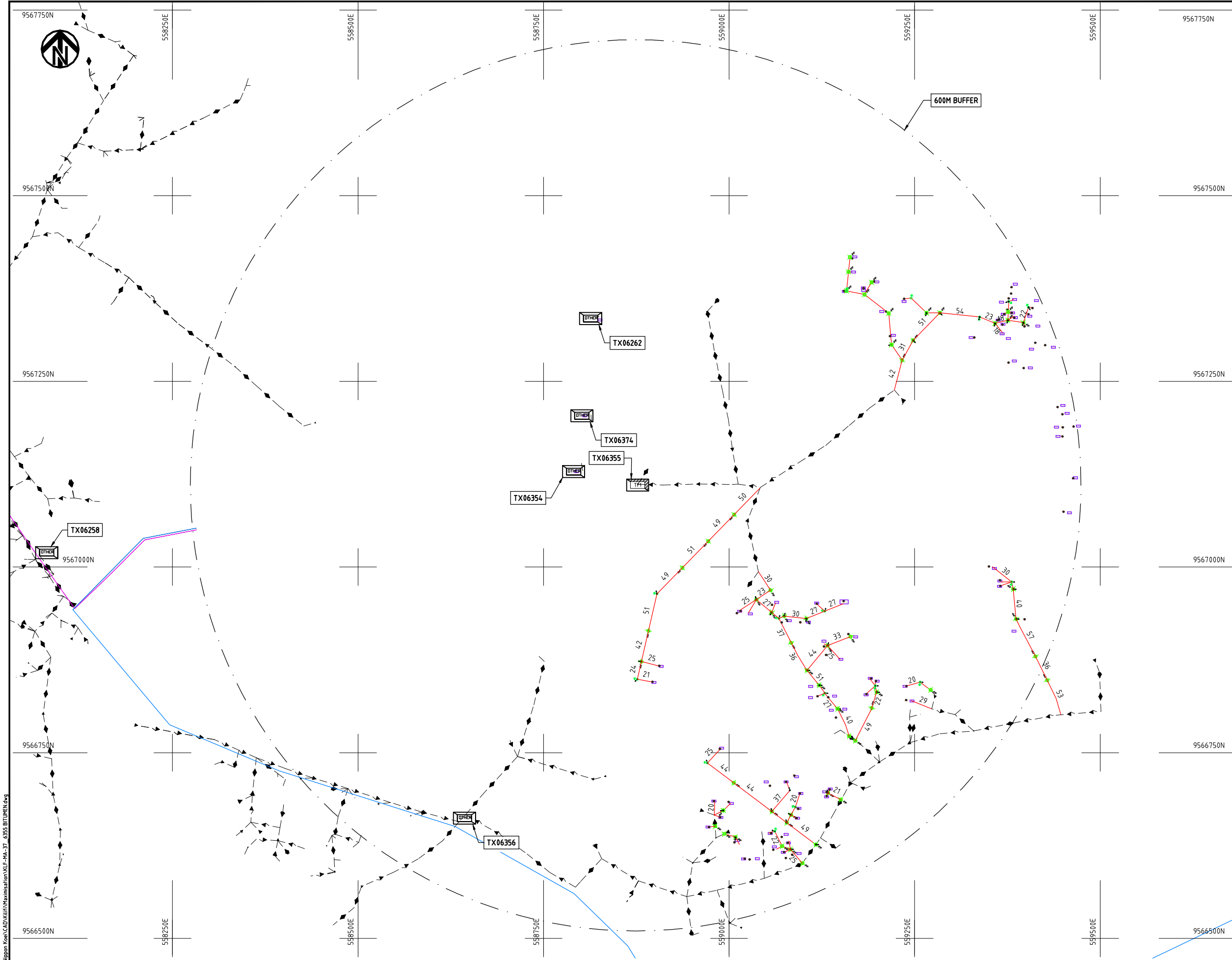
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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

SCALE 1:5000 (A3)

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

PROJECT: 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	KLF-MA-36	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	06469 WATAMU		DATE	10th SEP 2018

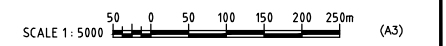




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

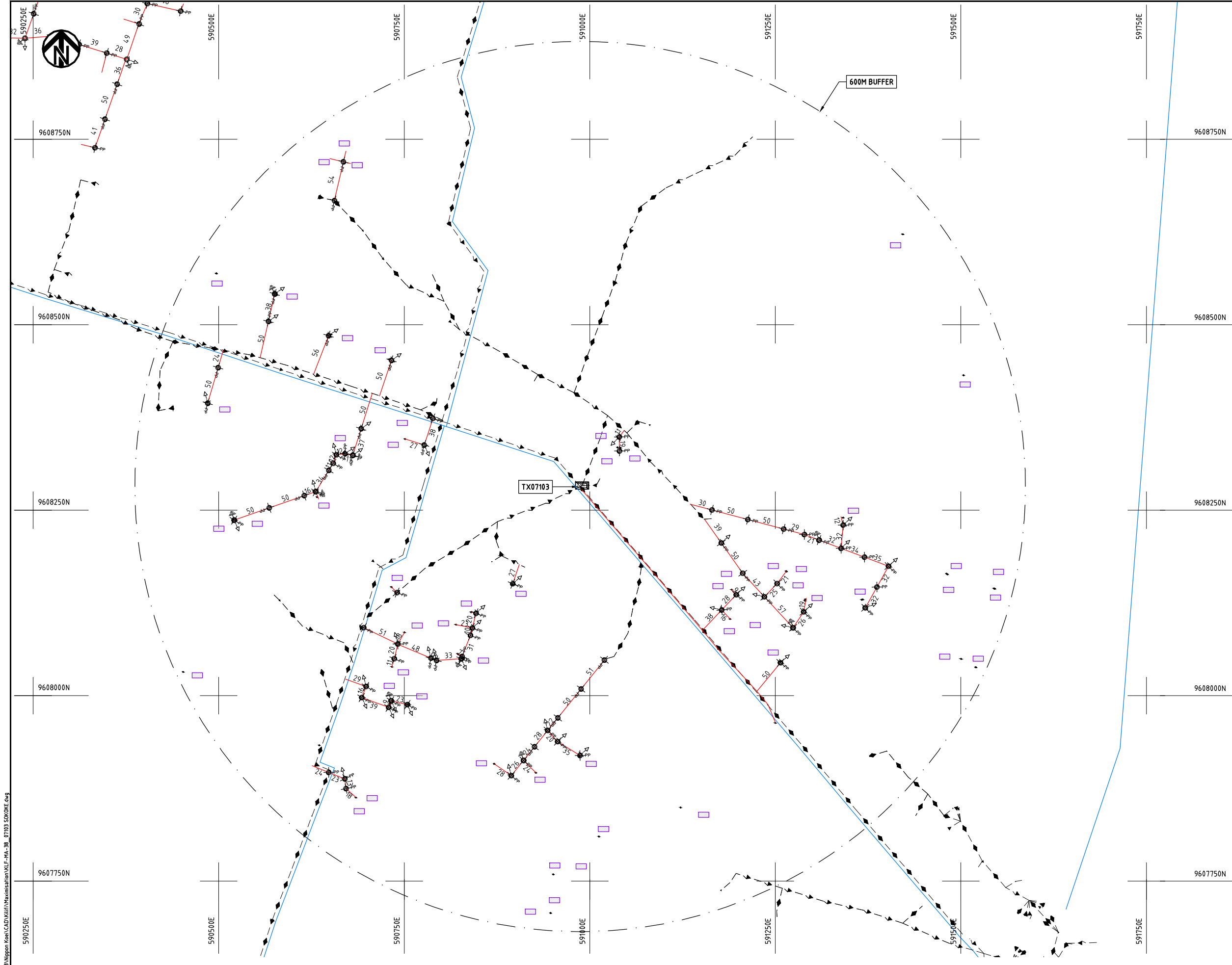
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH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



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-37_4355 BITUMEN.dwg

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		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.

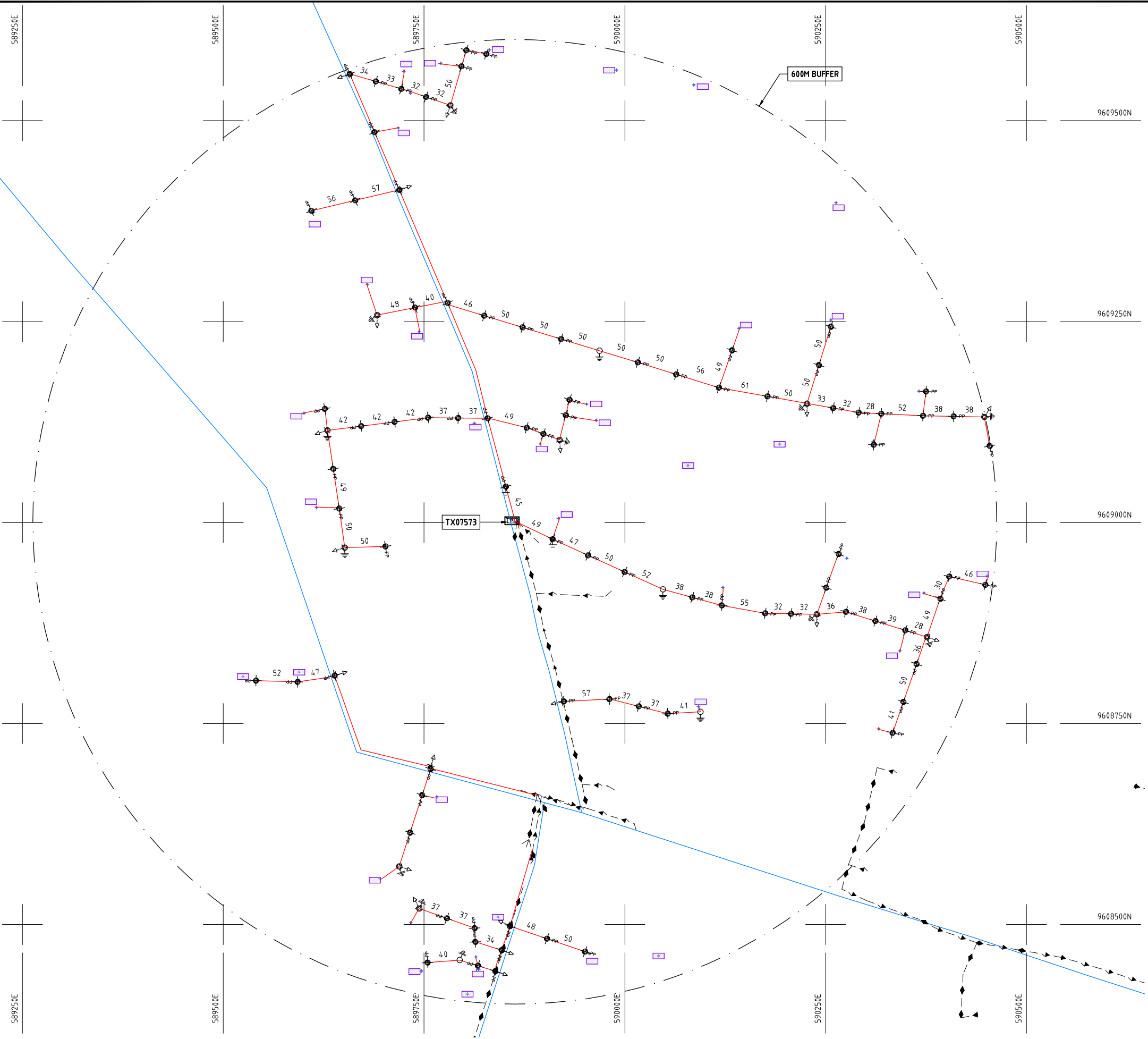
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - PP WOODEN ELECTRIC POLES
 - CP CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



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

PROJECT:	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07103 SOKOKE		KLF-MA-38	CHECKED BY	S.MAETA
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA				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)

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: 07573 WATER WORKS

DRAW. NO.

KLF-MA-39

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

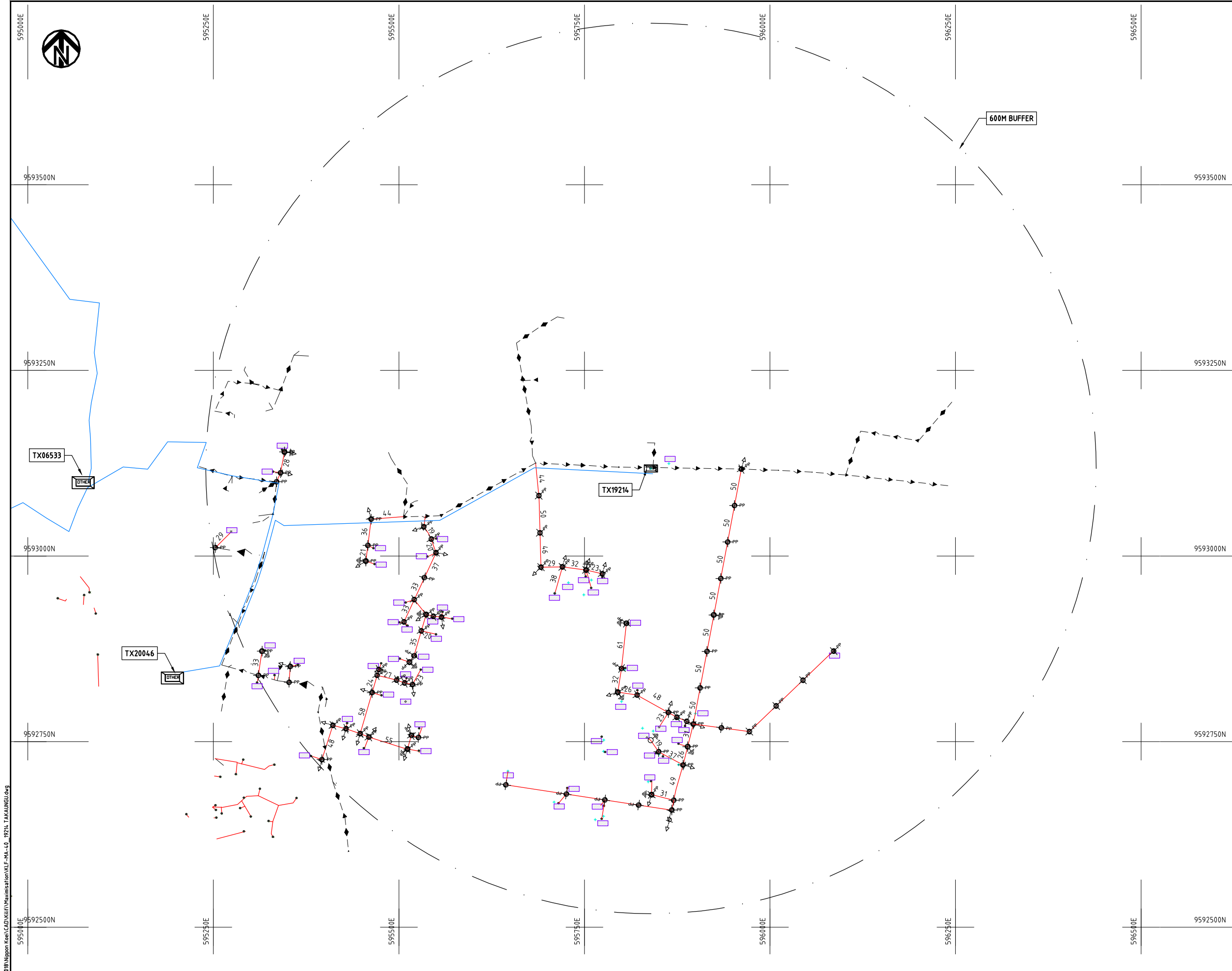
Y.TANAKA

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-40_19214_TAKAUNGU.dwg

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	KLF-MA-40	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	19214 TAKAUNGU		DATE	10th SEP 2018





568750E

569000E

569250E

569500E

569750E

570000E

9584500N

9584500N

9584250N

9584250N

9584000N

9584000N

9583750N

9583750N

9583500N

9583500N

568750E

569000E

569250E

569500E

569750E

570000E

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: 36034 HON. GUNGA

DRAW. NO.

KLF-MA-41

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

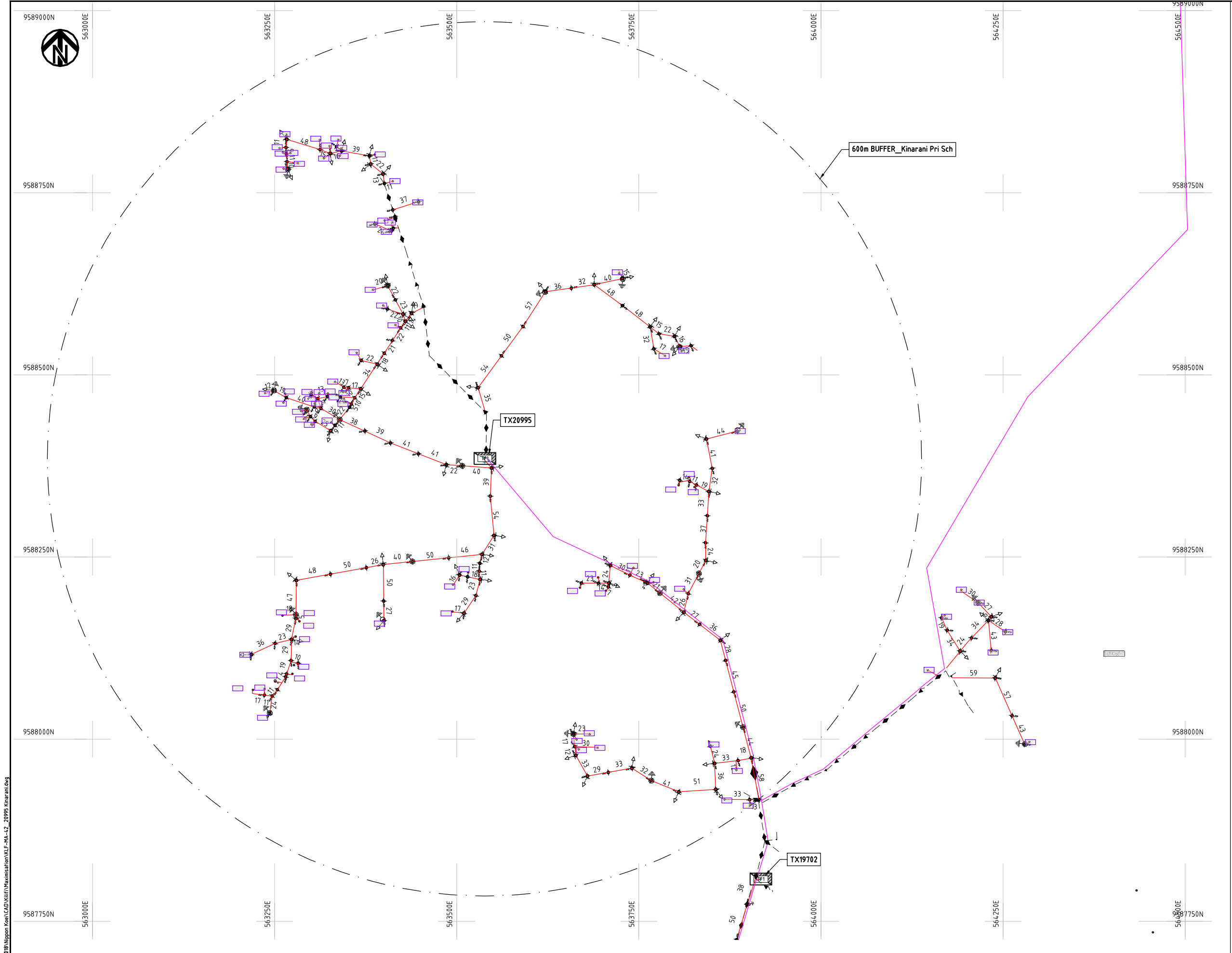
Y.TANAKA

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.

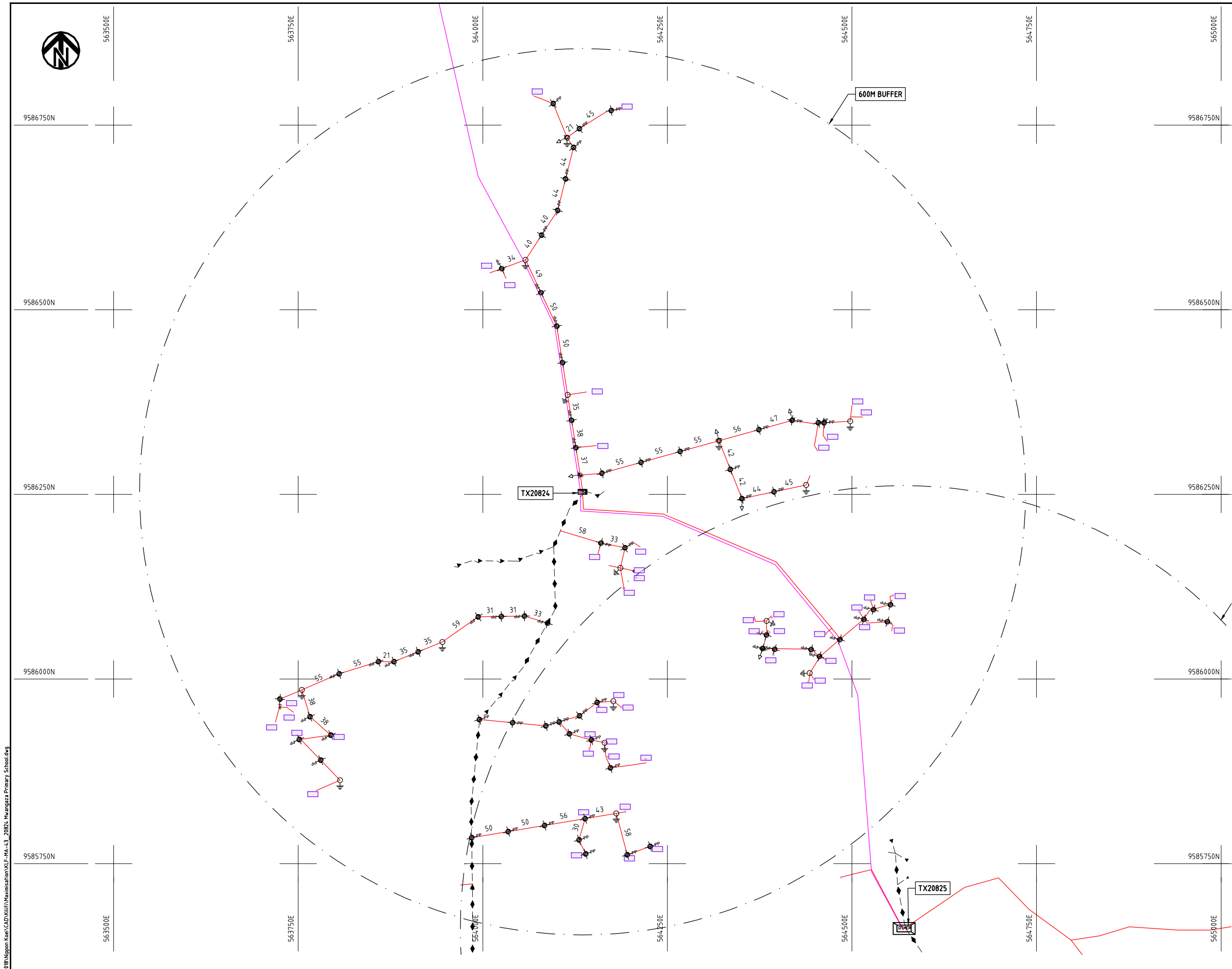
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



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

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 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

SCALE 1:5000 50 0 50 100 150 200 250m (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: 20824 MWANGAZA PRIMARY SCHOOL

DRAW. NO.

KLF-MA-43

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

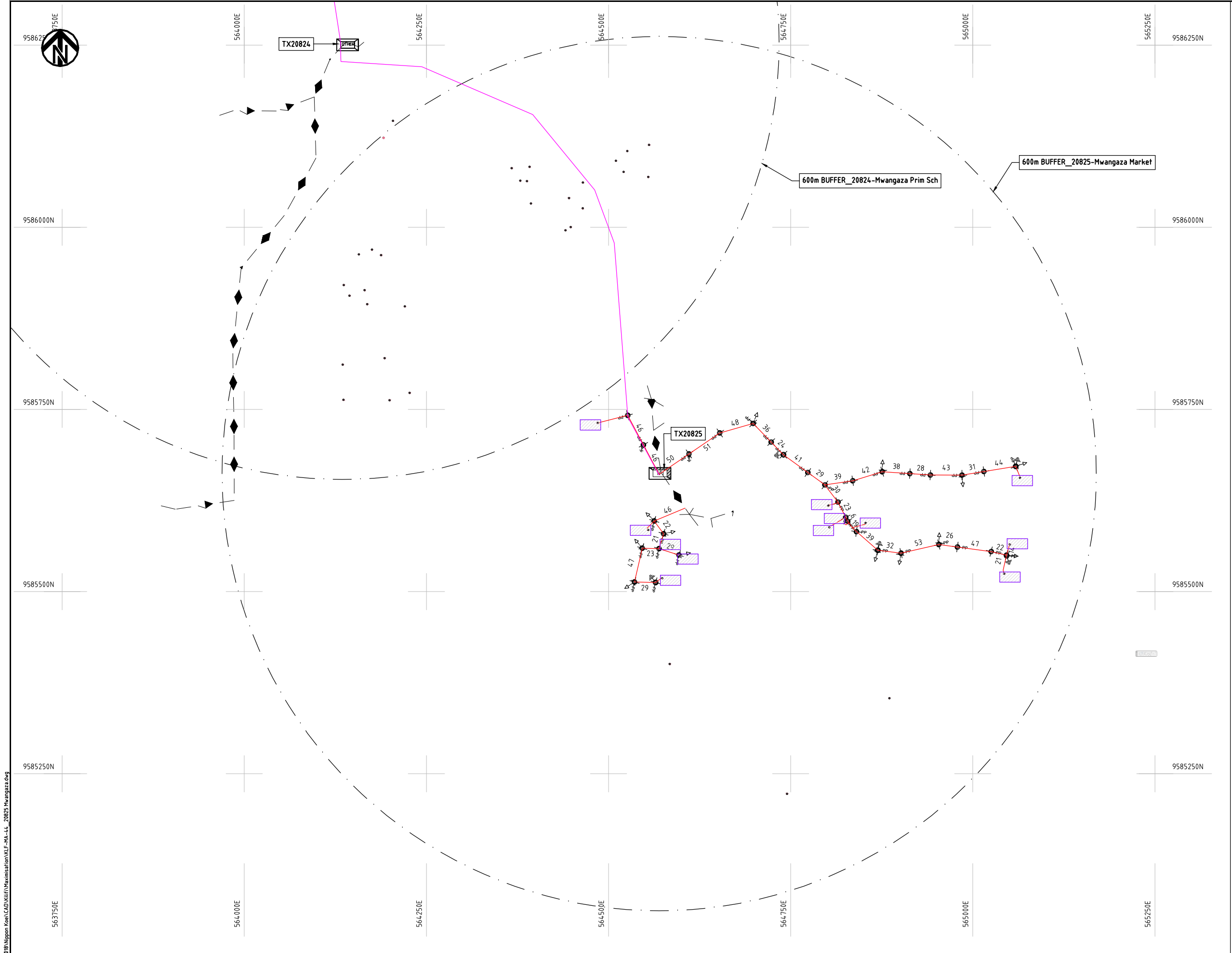
Y.TANAKA

DATE

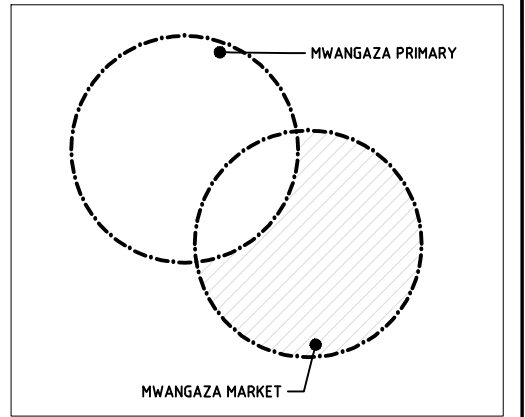
10th SEP 2018



NIPPON KOEI CO., LTD

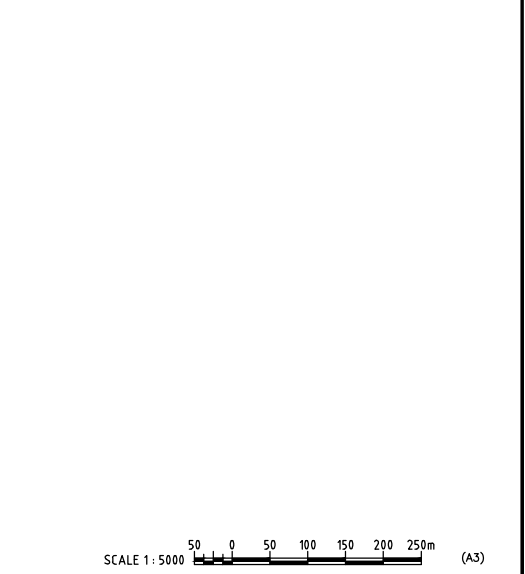


- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE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



KEY PLAN

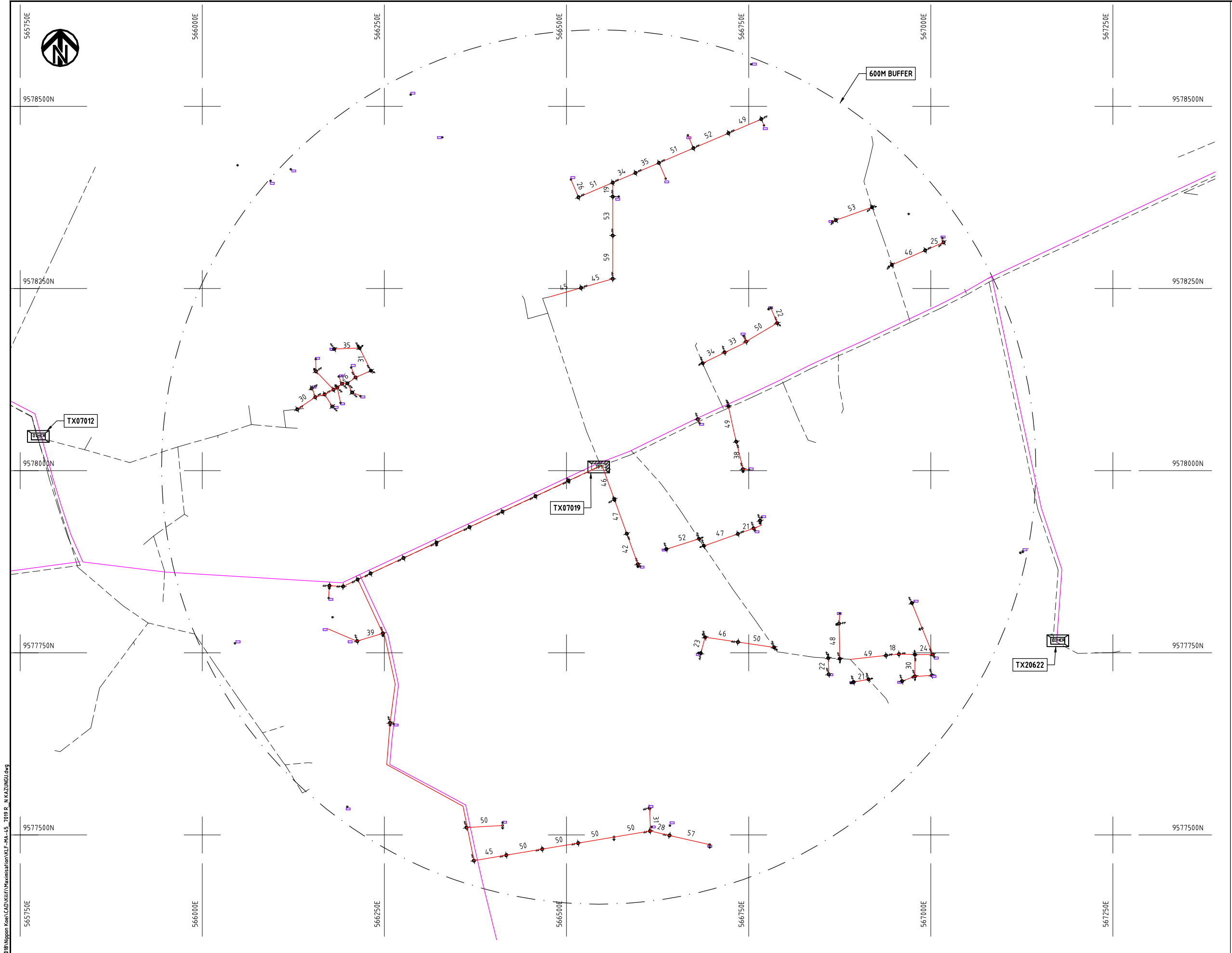
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - PP WOODEN ELECTRIC POLES
 - CP CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



Cdr File No. DA/Frank-Proj/2018	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 PROJECT SITE: 20825 MWANGAZA	KLF-MA-44	CHECKED BY	S.MAETA	
				APPROVED BY	Y.TANAKA	
				DATE	10th SEP 2018	



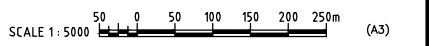
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- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m 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\Kilifi\Maximisation\KLF-MA-45_7019-R-N-KANZUNGU.dwg

PROJECT:	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



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



9594000N

557500E

9593750N

9593500N

9593250N

9593000N

557500E

557750E

557750E

558000E

558000E

558250E

558250E

558500E

558500E

558750E

558750E

559000E

559000E

9594000N

9593750N

9593500N

9593250N

9593000N

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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP 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: 19718-KABATHENI MARKET

DRAW. NO.

KLF-MA-46

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

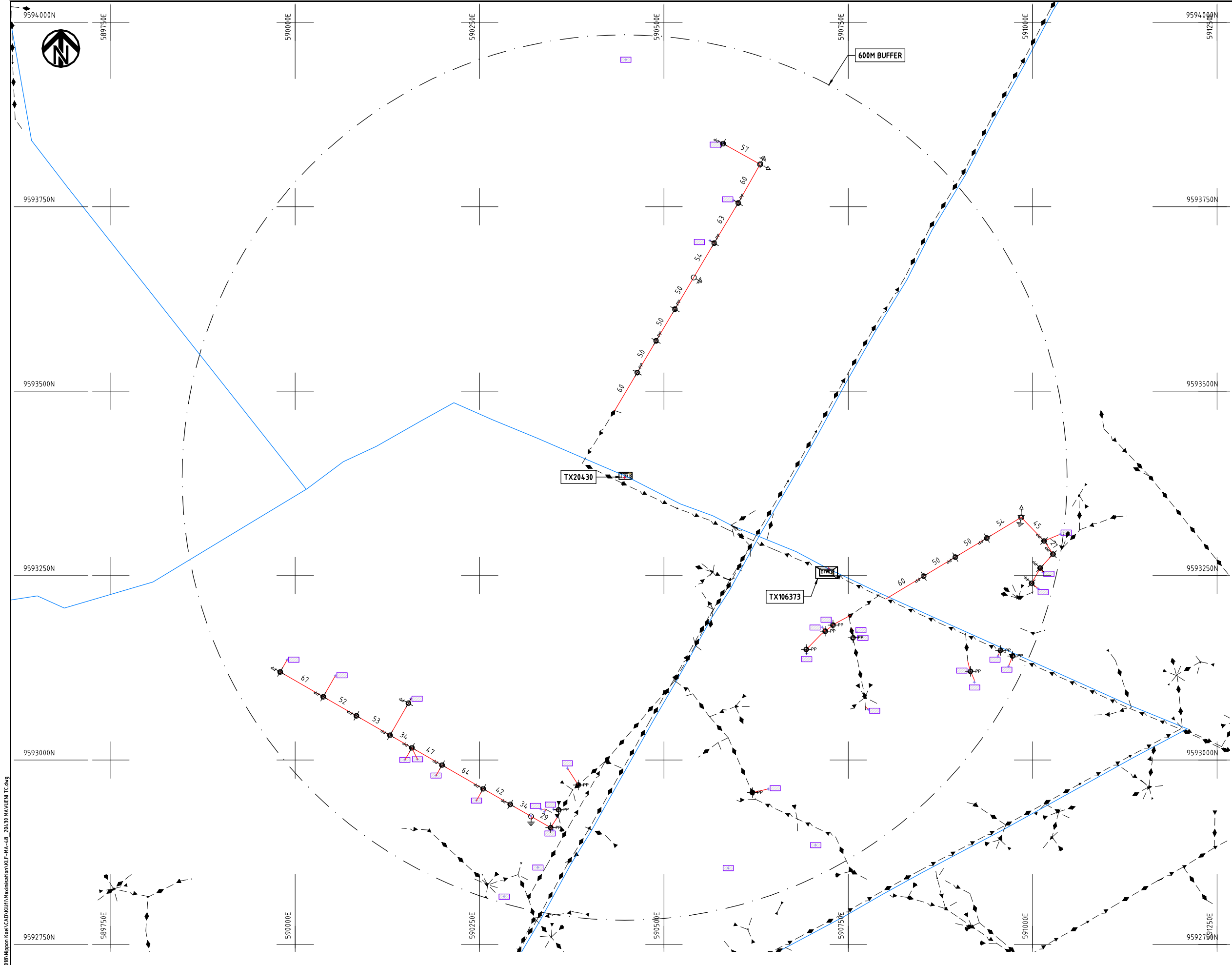
Y.TANAKA

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.

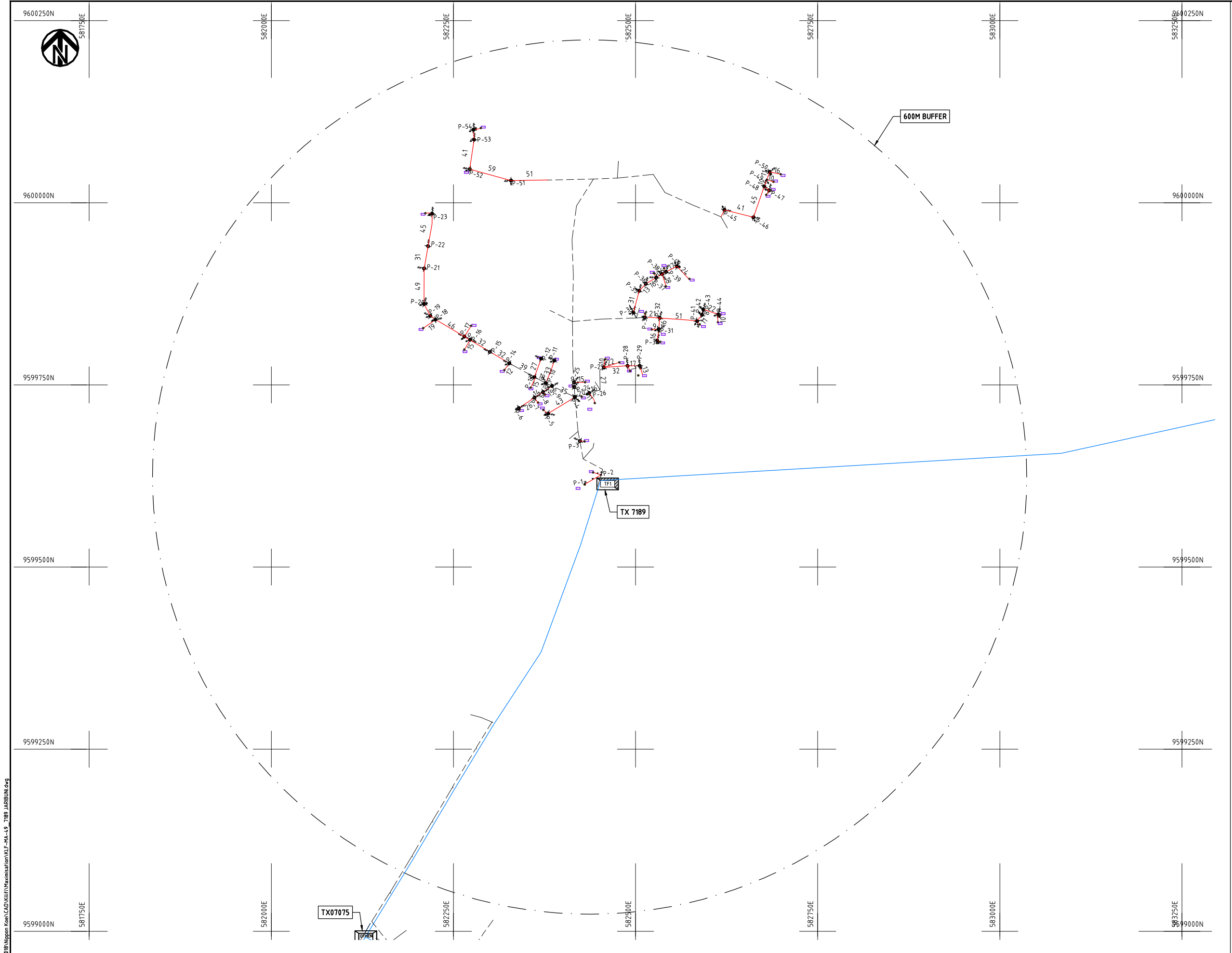
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - PROPOSED 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES 12M
 - CONCRETE ELECTRIC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



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

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	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.

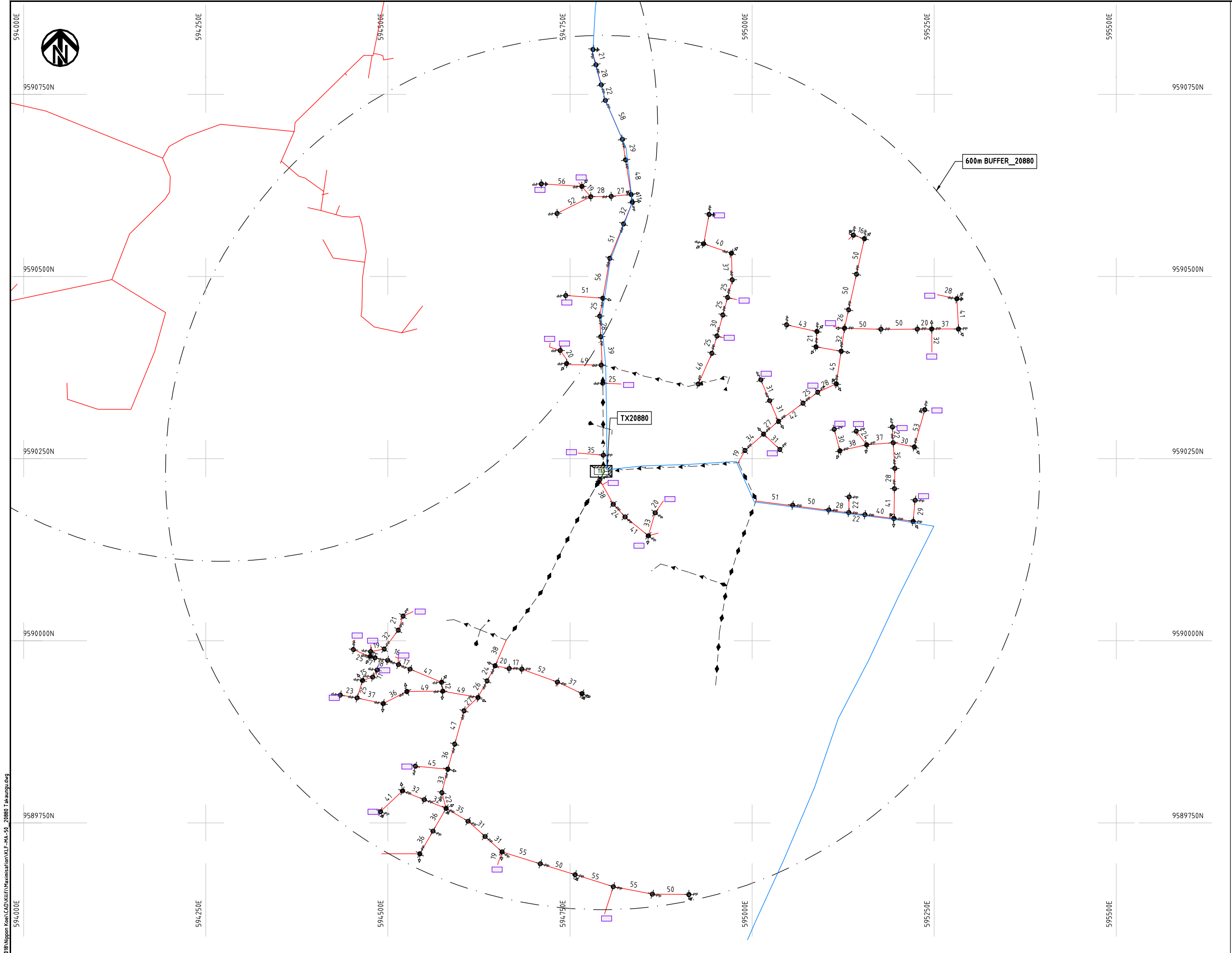
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



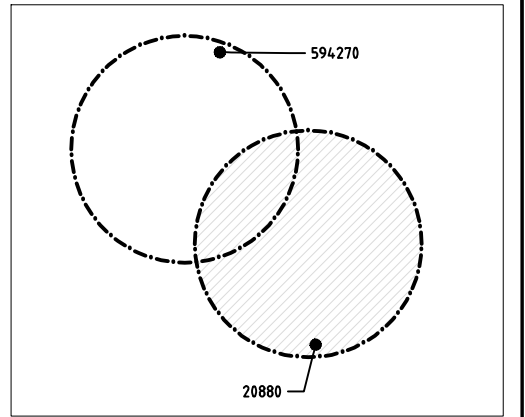
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PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	KILIFI	KLF-MA-49	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA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

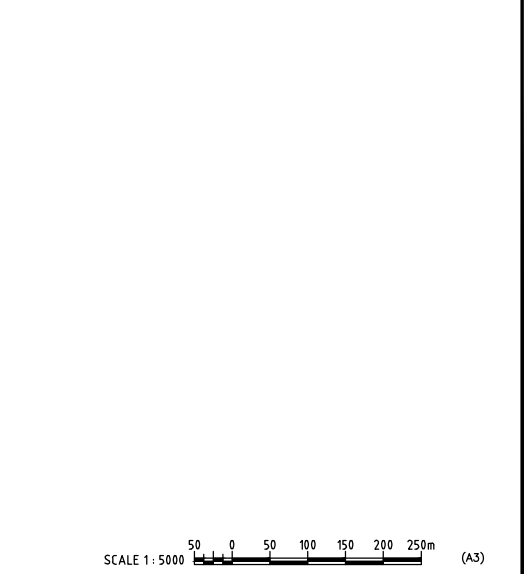




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
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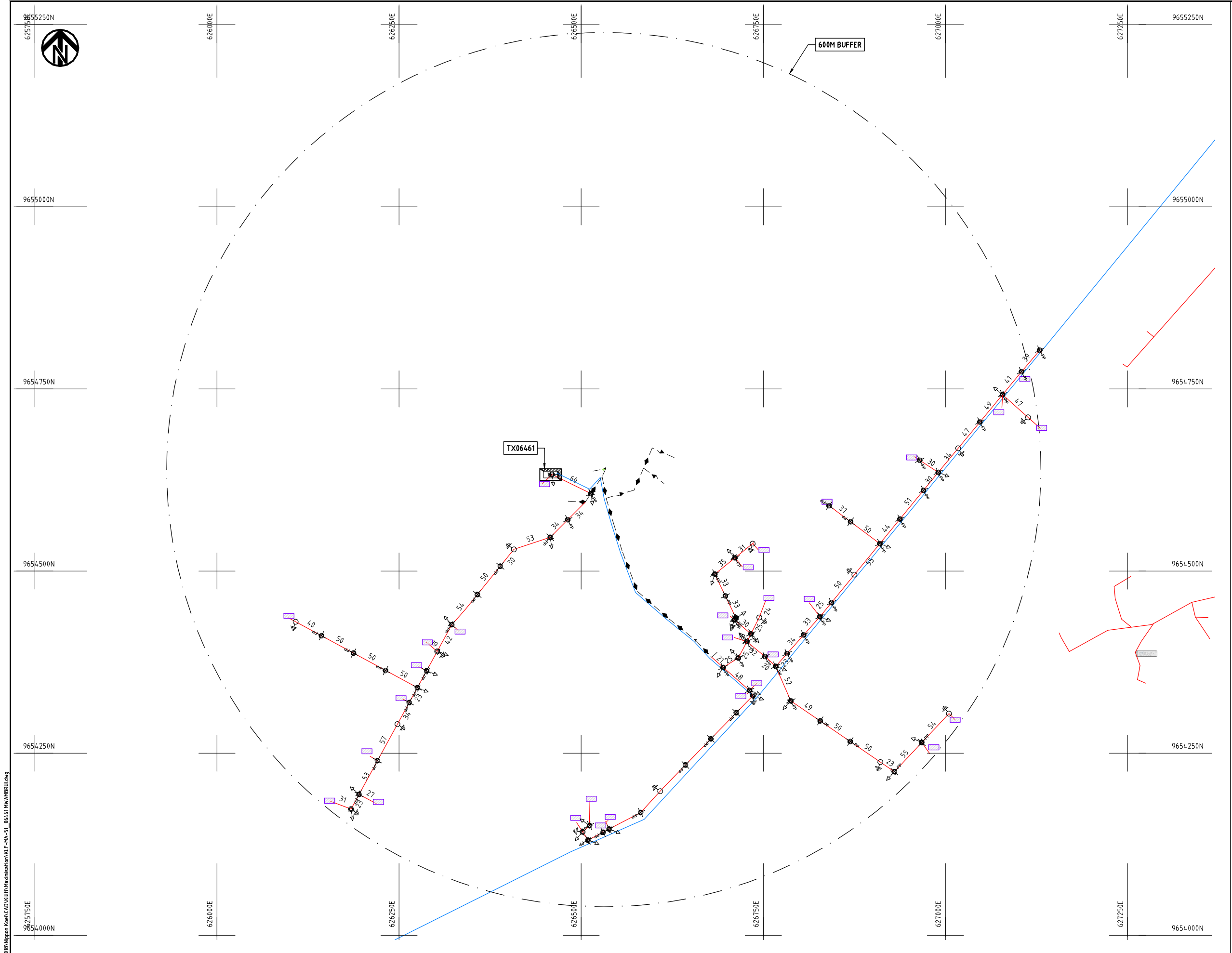
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY



Cdr File No. DA/Frank-Proj/2018	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		KLF-MA-50	CHECKED BY	S.MAETA
		SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
		PROJECT SITE: 20880 TAKAUNGU			DATE	10th SEP 2018



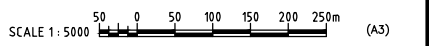
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- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m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

LEGEND

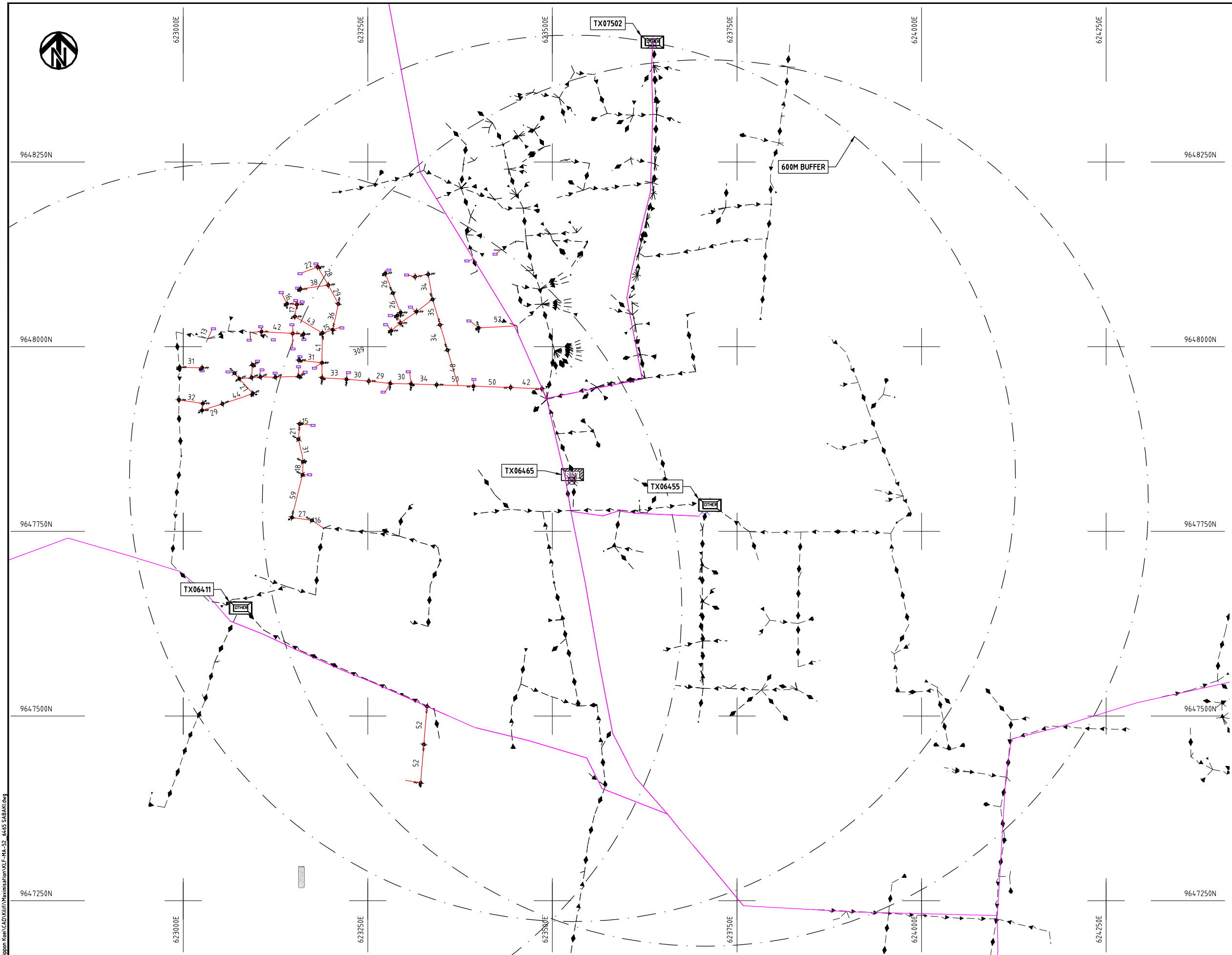
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH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



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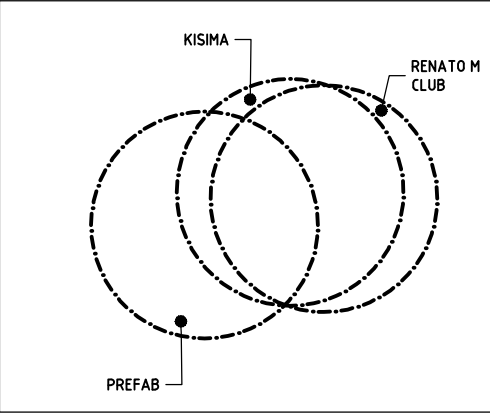
	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY:	KILIFI	KLF-MA-51	CHECKED BY	S.MAETA
		SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
		PROJECT SITE:	06461 MWAMBRUI		DATE	10th SEP 2018





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

SCALE 1:5000 50 0 50 100 150 200 250m (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: 06465-SABAKI

DRAW. NO.

KLF-MA-52

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

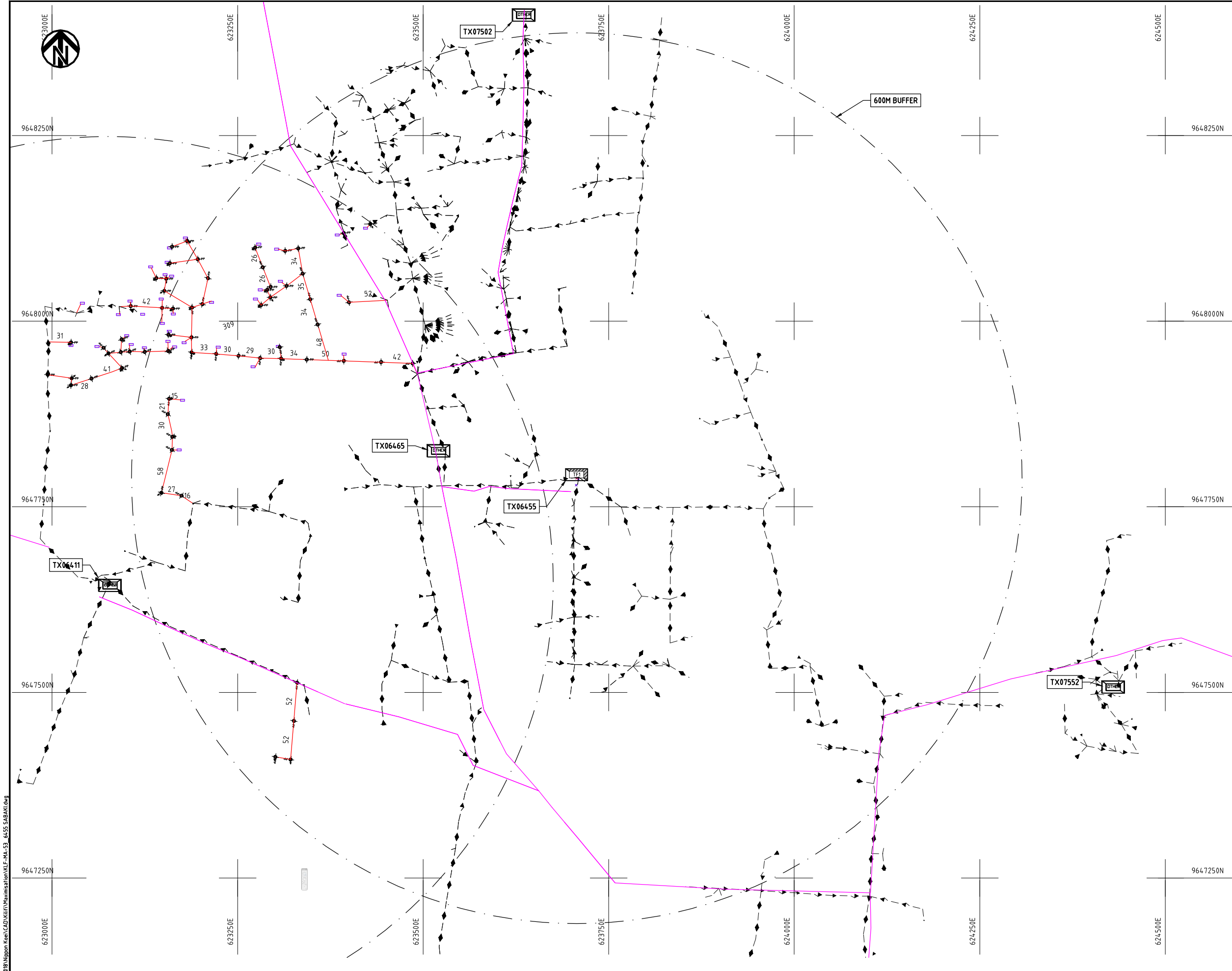
Y.TANAKA

DATE

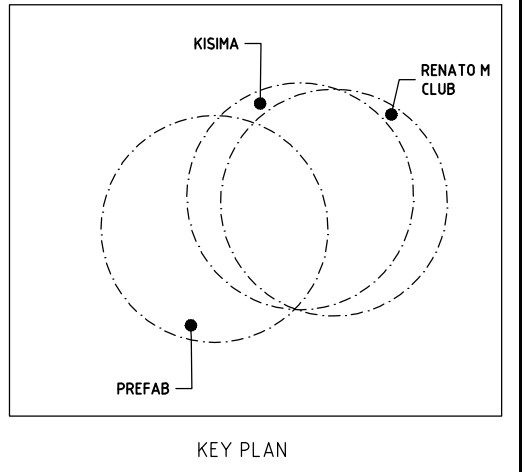
10th SEP 2018



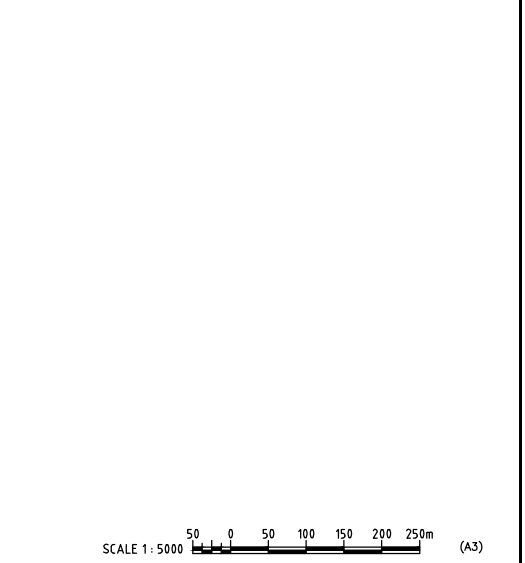
NIPPON KOEI CO., LTD



- 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.



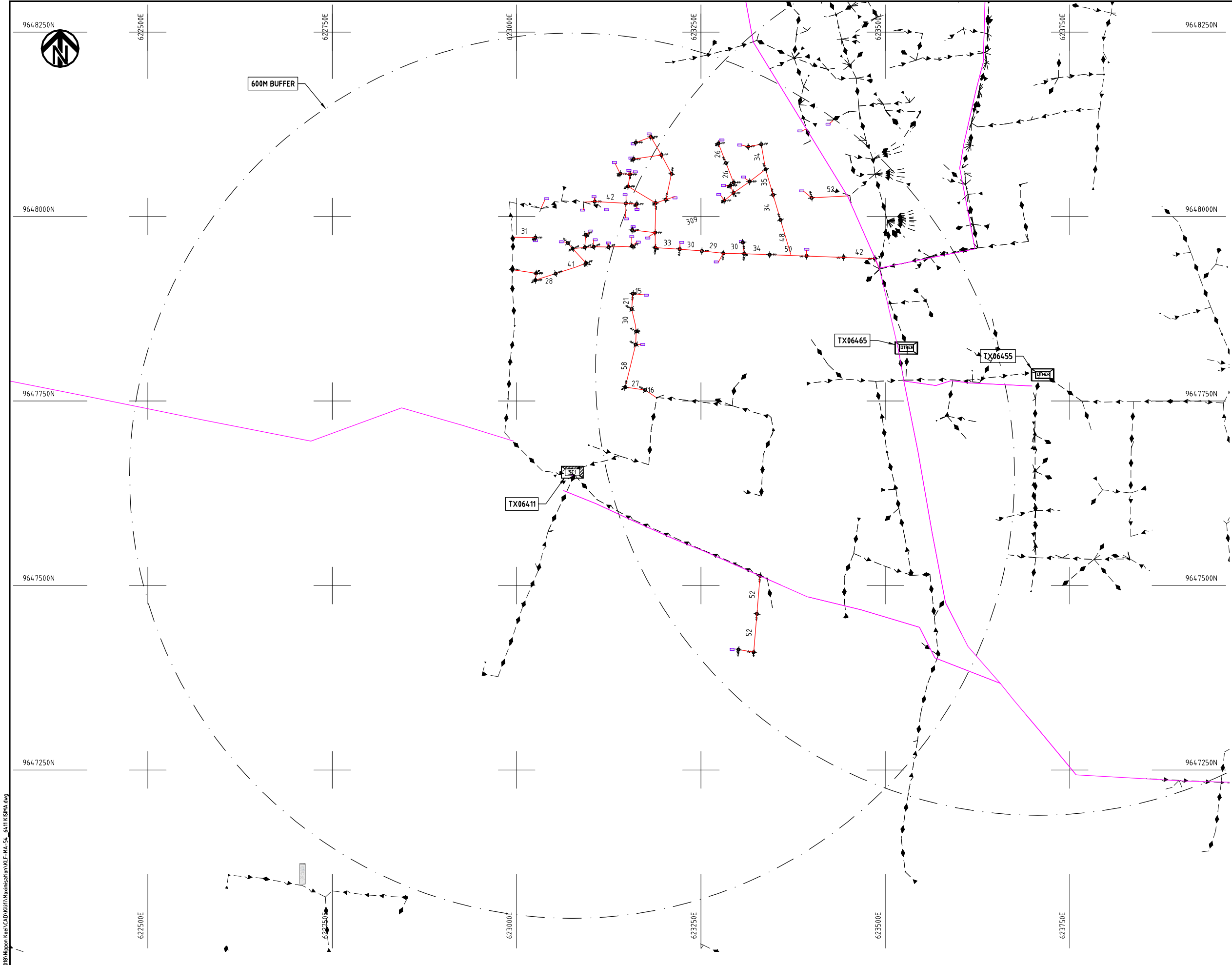
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



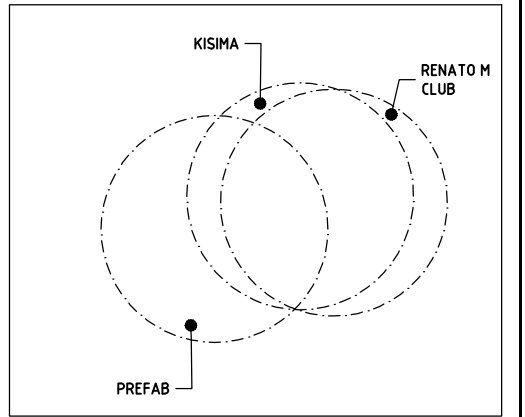
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PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	KILIFI	KLF-MA-53	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA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



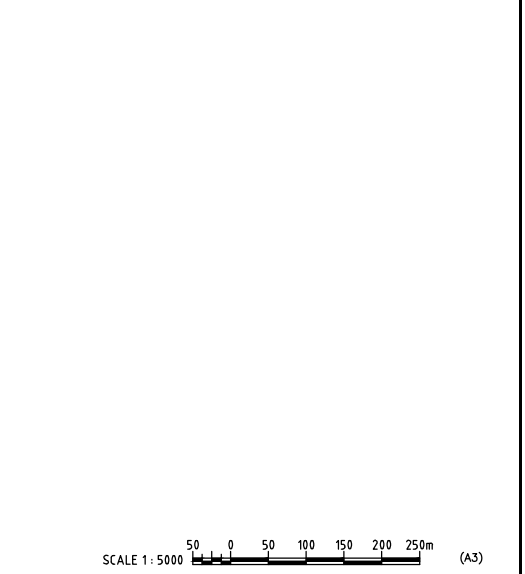


- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE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



KEY PLAN

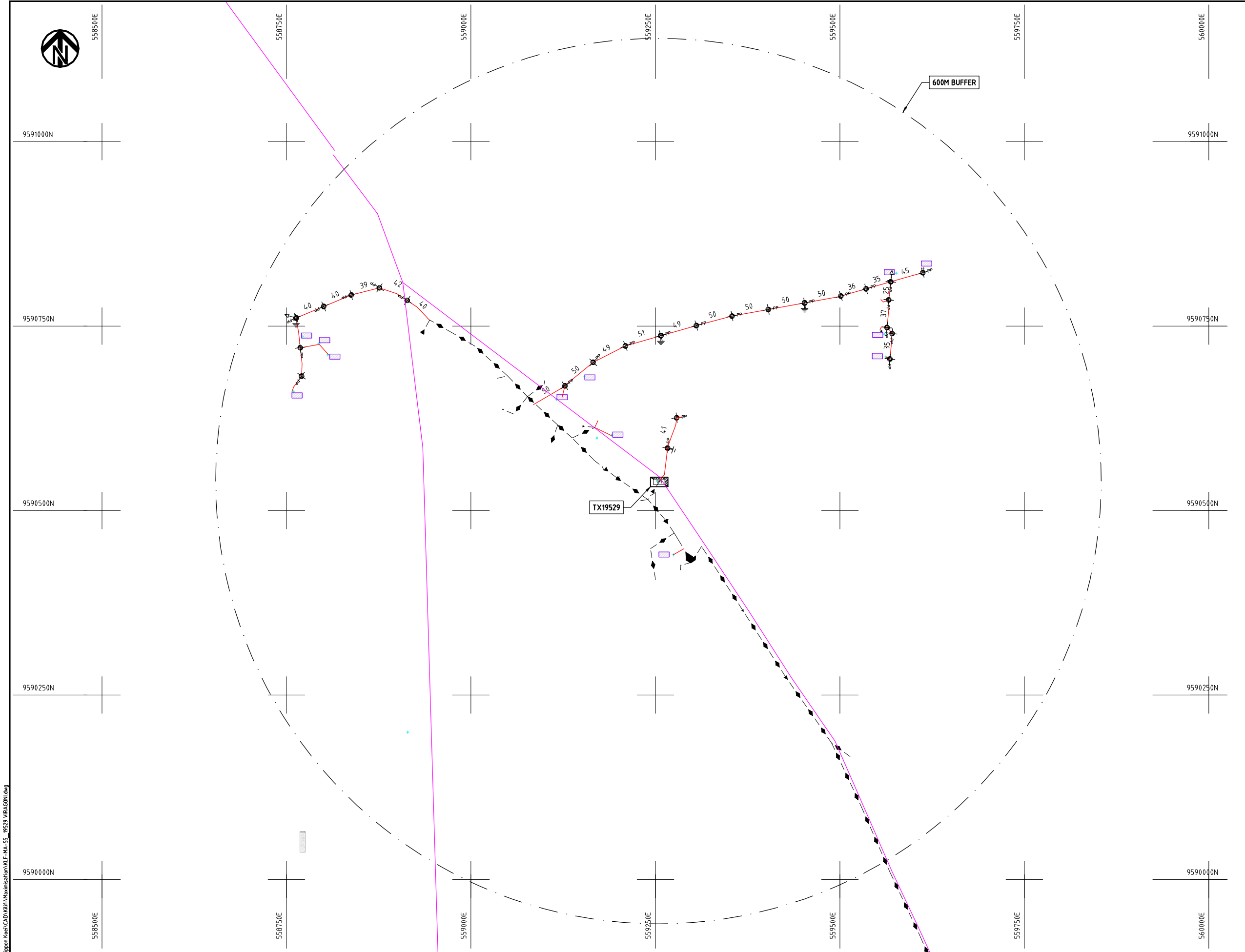
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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





- 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.

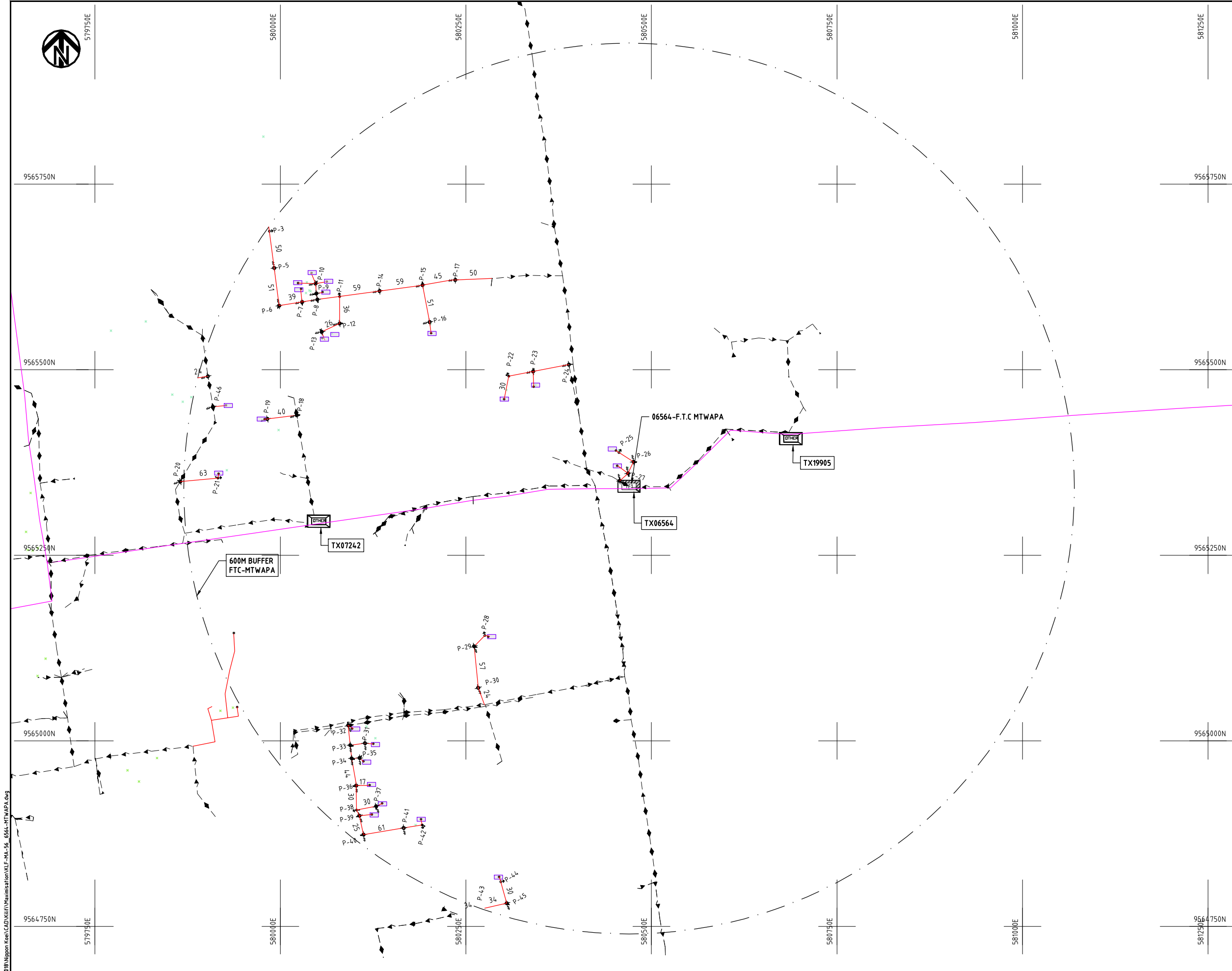
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - PROPOSED 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES 12M
 - CONCRETE ELECTRIC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

SCALE 1:5000 50 0 50 100 150 200 250m (A3)

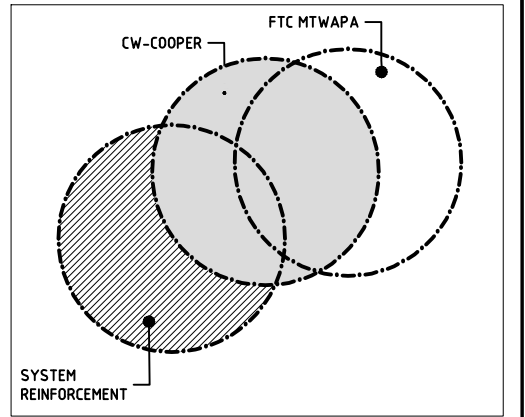
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		COUNTY: KILIFI		KLF-MA-55	CHECKED BY	S.MAETA
		SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
		PROJECT SITE: 19529 VIRAGONI			DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\Kilifi\Maximisation\KLF-MA-55-19529 VIRAGONI.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.



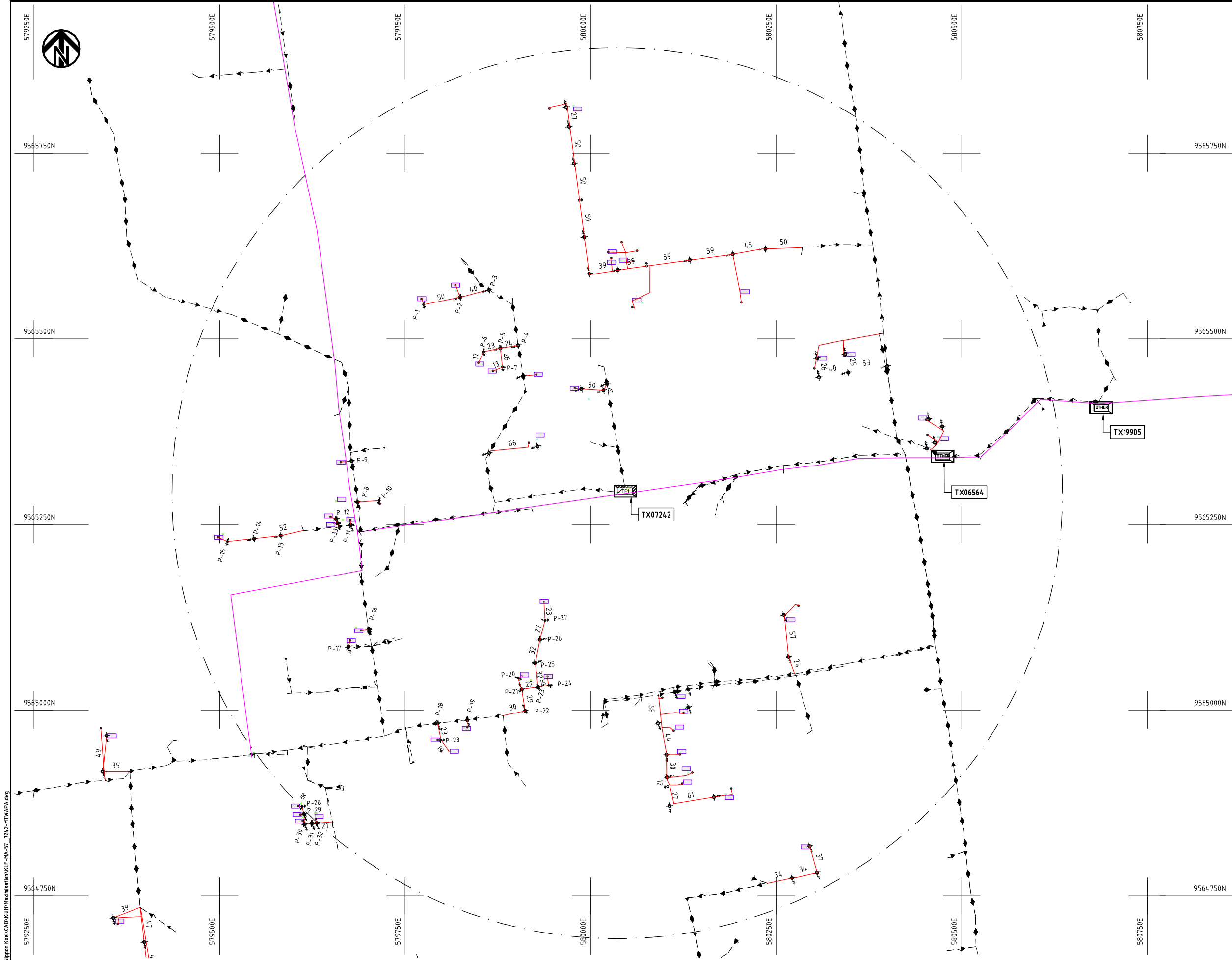
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - PROPOSED 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES 12M
 - CONCRETE ELECTRIC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



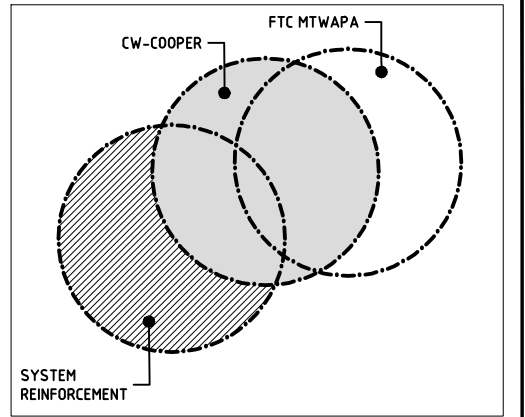
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	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 06564-MTWAPA	KLF-MA-56	CHECKED BY	S.MAETA	
				APPROVED BY	Y.TANAKA	
				DATE	10th SEP 2018	



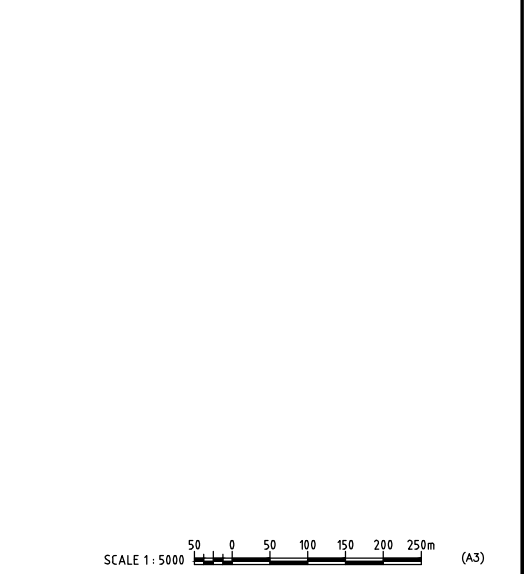


- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



KEY PLAN

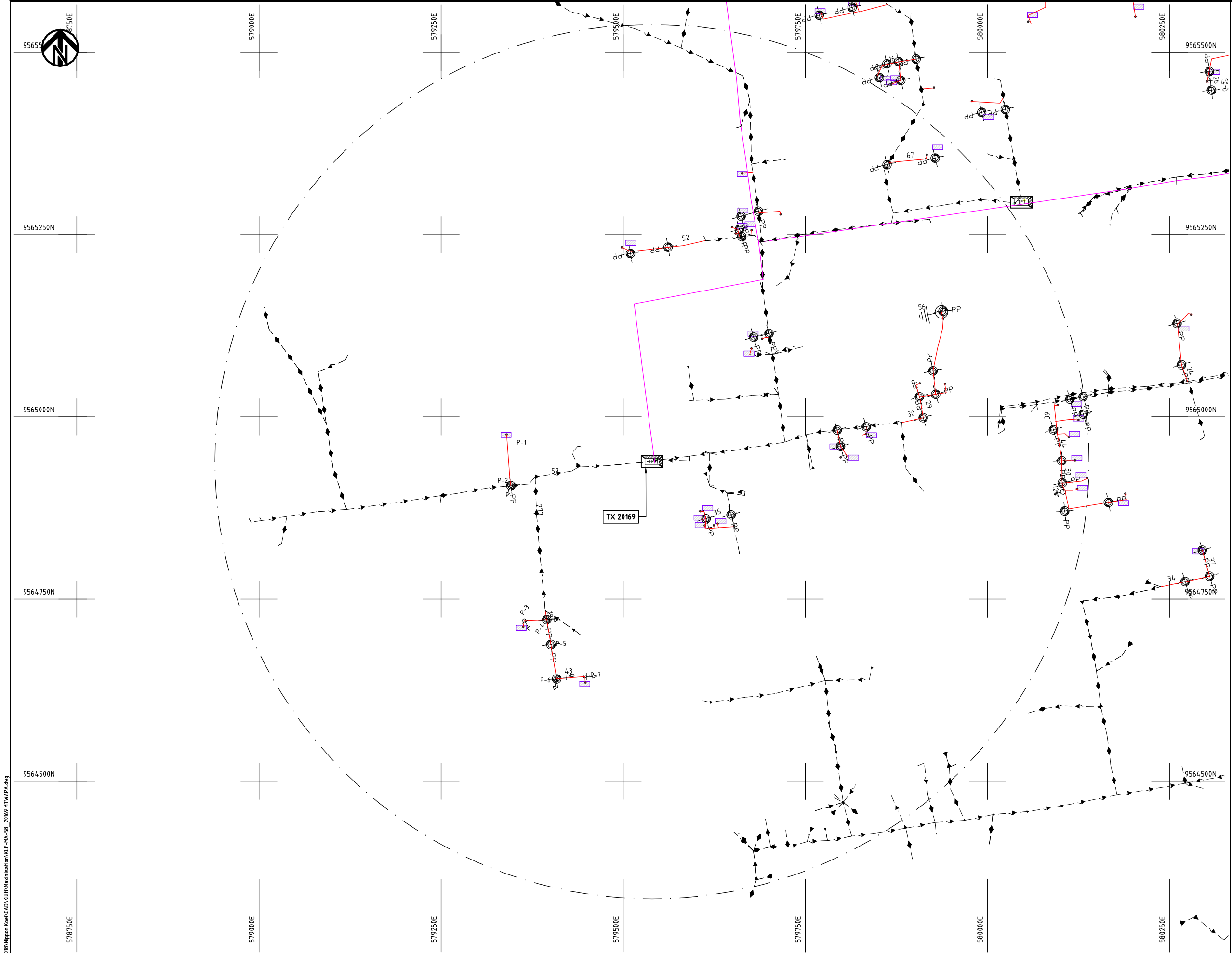
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - PROPOSED 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES 12M
 - CONCRETE ELECTRIC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



Cdr File No. DA/Frank-Proj/2018/001	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 PROJECT SITE: 7242-MTWAPA	KLF-MA-57	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-57_7242-MTWAPA.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

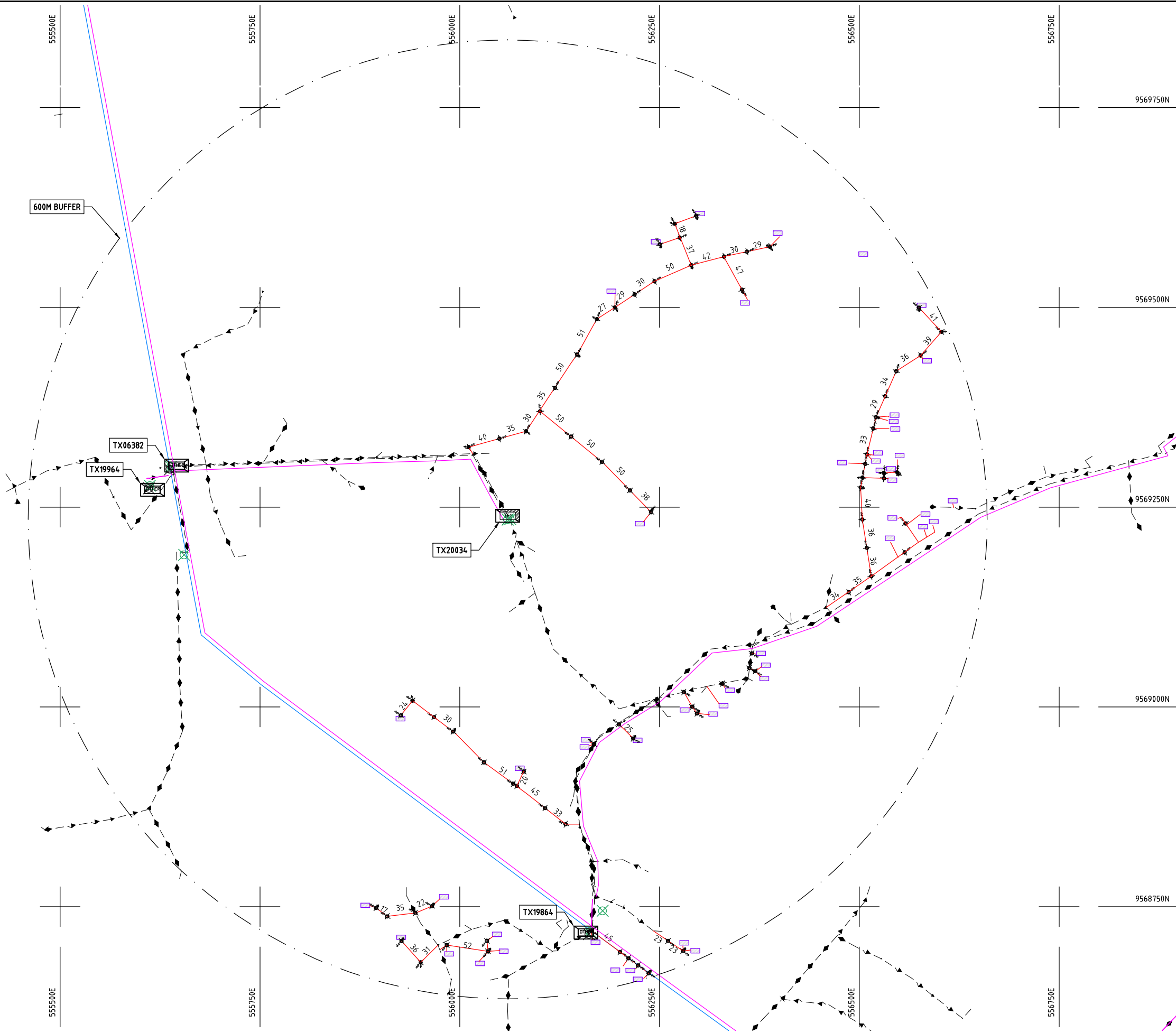


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PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	KILIFI	KLF-MA-58	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA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

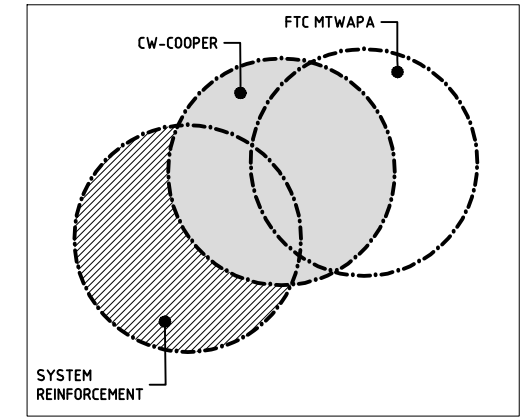


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NOTES:

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.



KEY PLAN

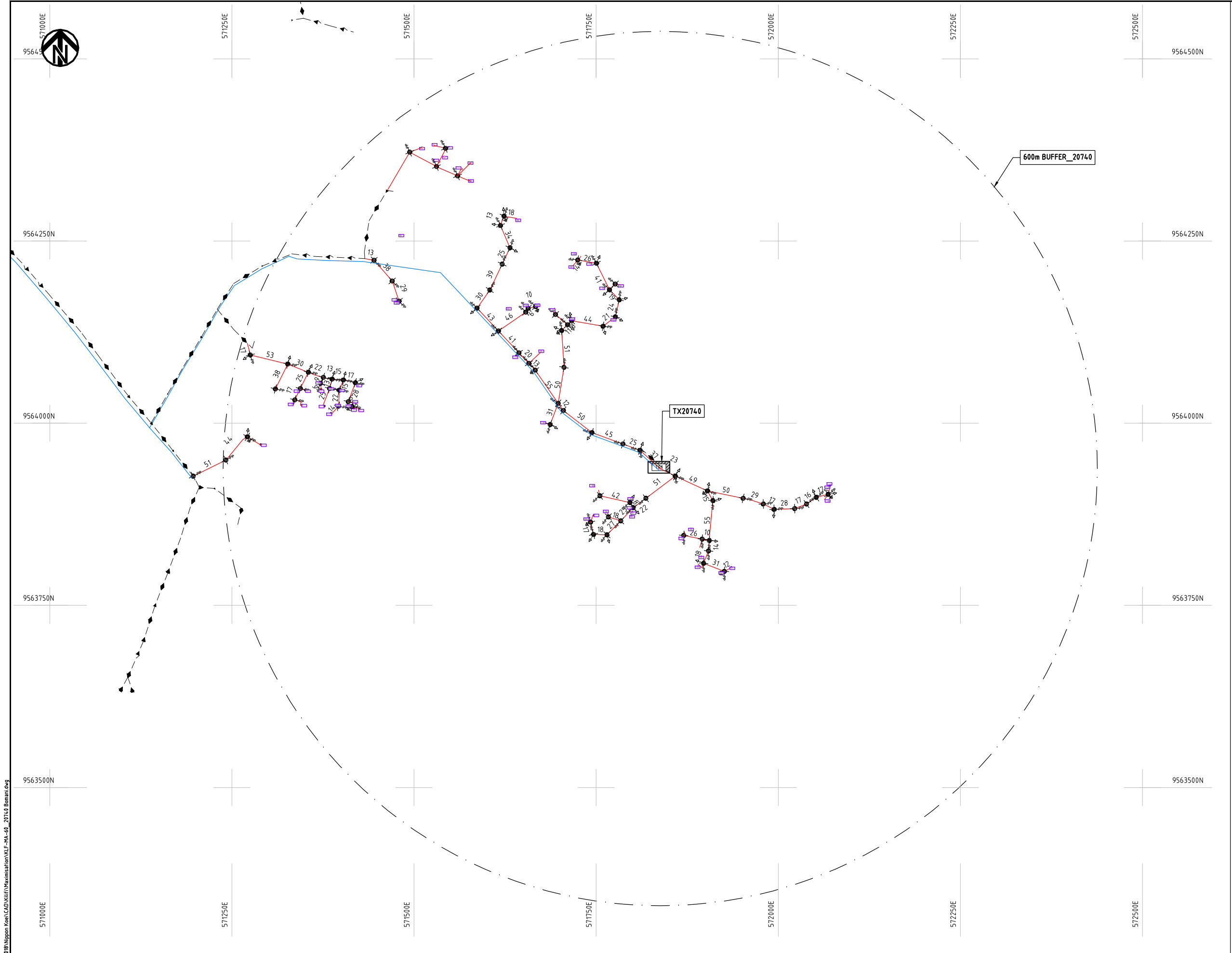
LEGEND

- 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

SCALE 1: 5000 (A3)

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		COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 20034 - MARIKANI SLAUGHTER		KLF-MA-59	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018

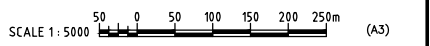




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE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



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





587250E

587500E

587750E

588000E

588250E

588500E

588750E

9638000N

9638000N

9637750N

9637750N

9637500N

9637500N

9637250N

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587750E

588000E

588250E

588500E

588750E

600M BUFFER

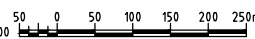
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NOTES:

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

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: 06473-KIRUBI

DRAW. NO.

KLF-MA-61

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

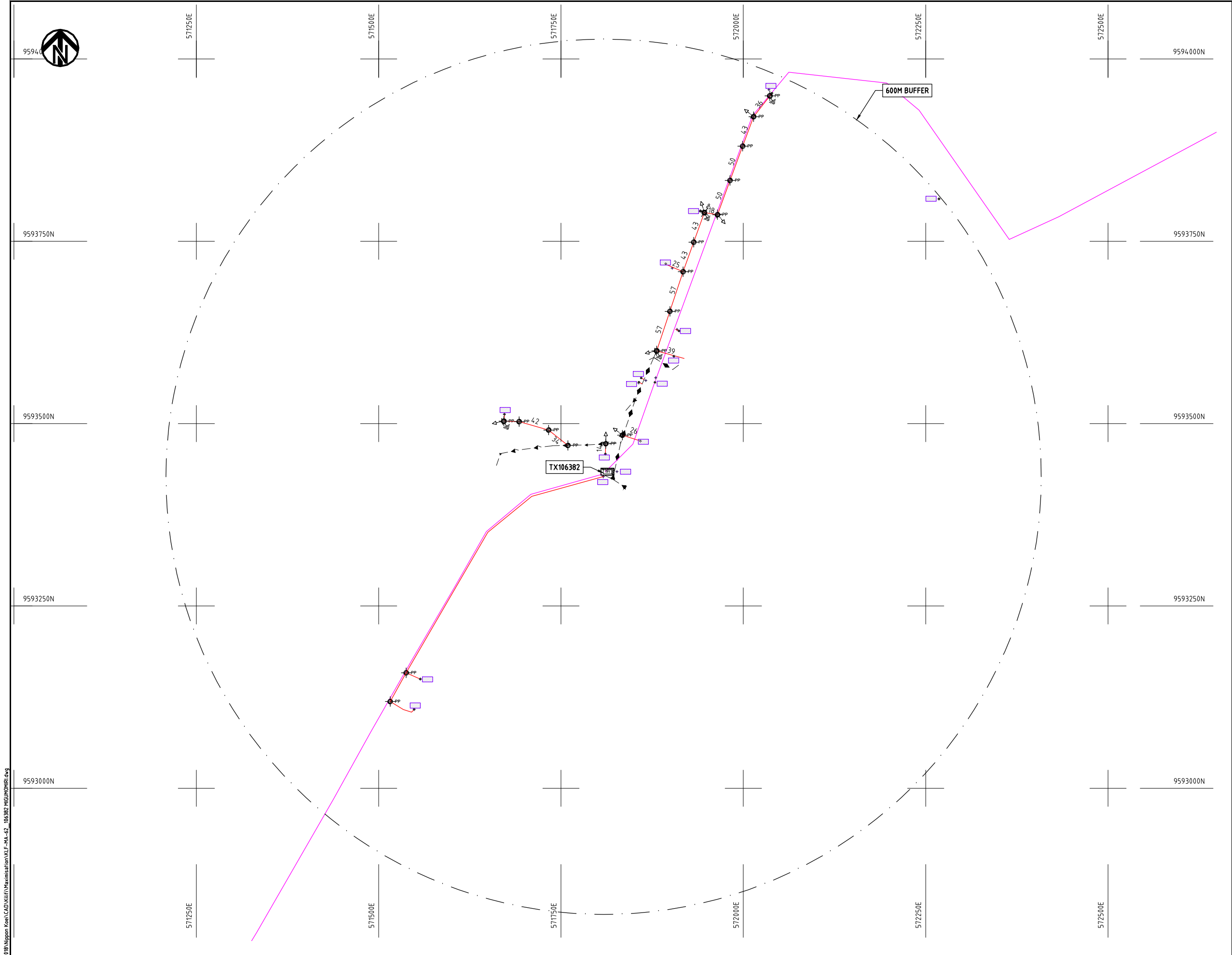
DATE

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

SCALE 1:5000 (A3)

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

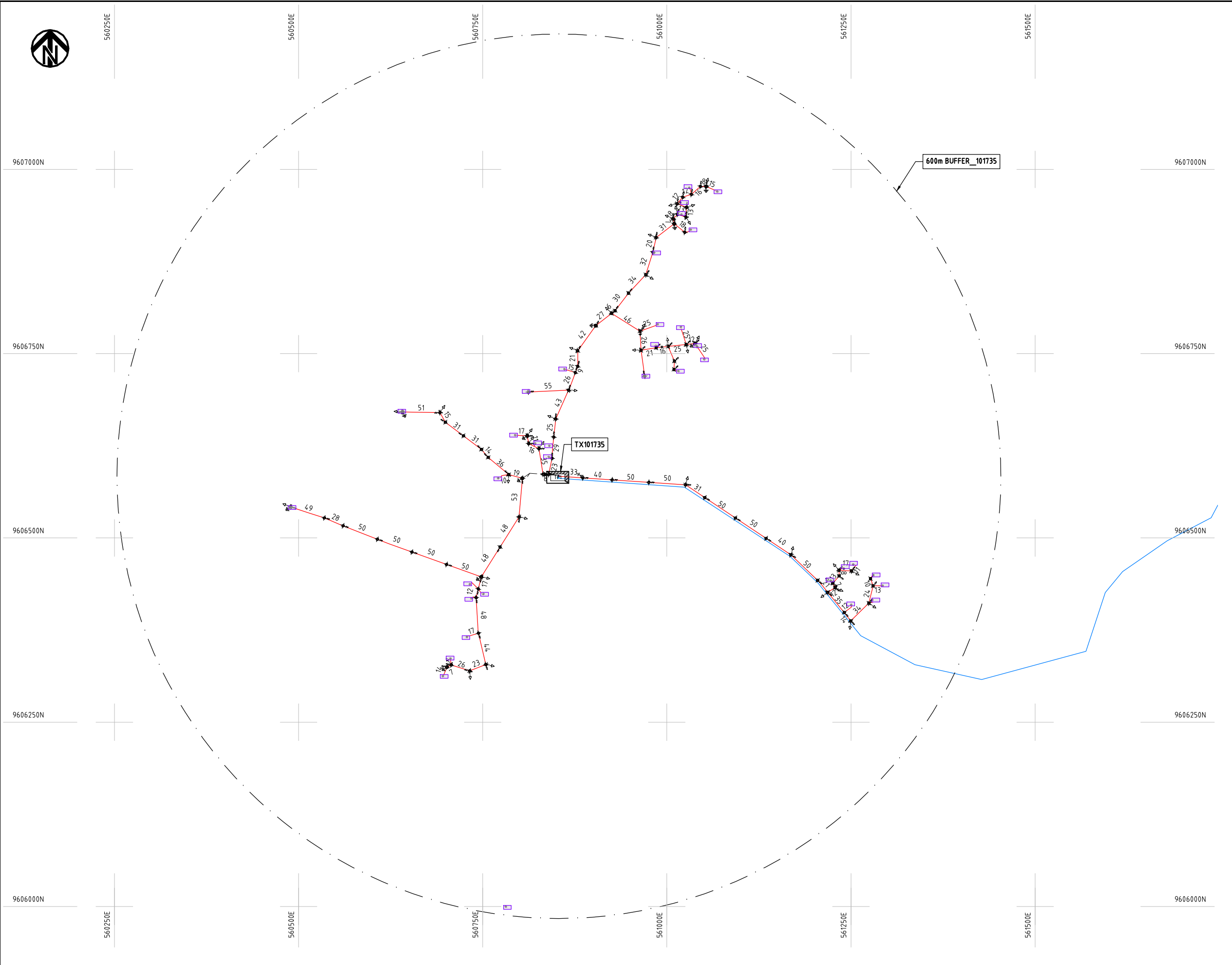
DRAWING TITLE
**COUNTY: KILIFI
SCHEME: MAXIMIZATION
PROJECT SITE: 106382 MIGUMOMIRI**

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-62	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_Kalongoni.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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

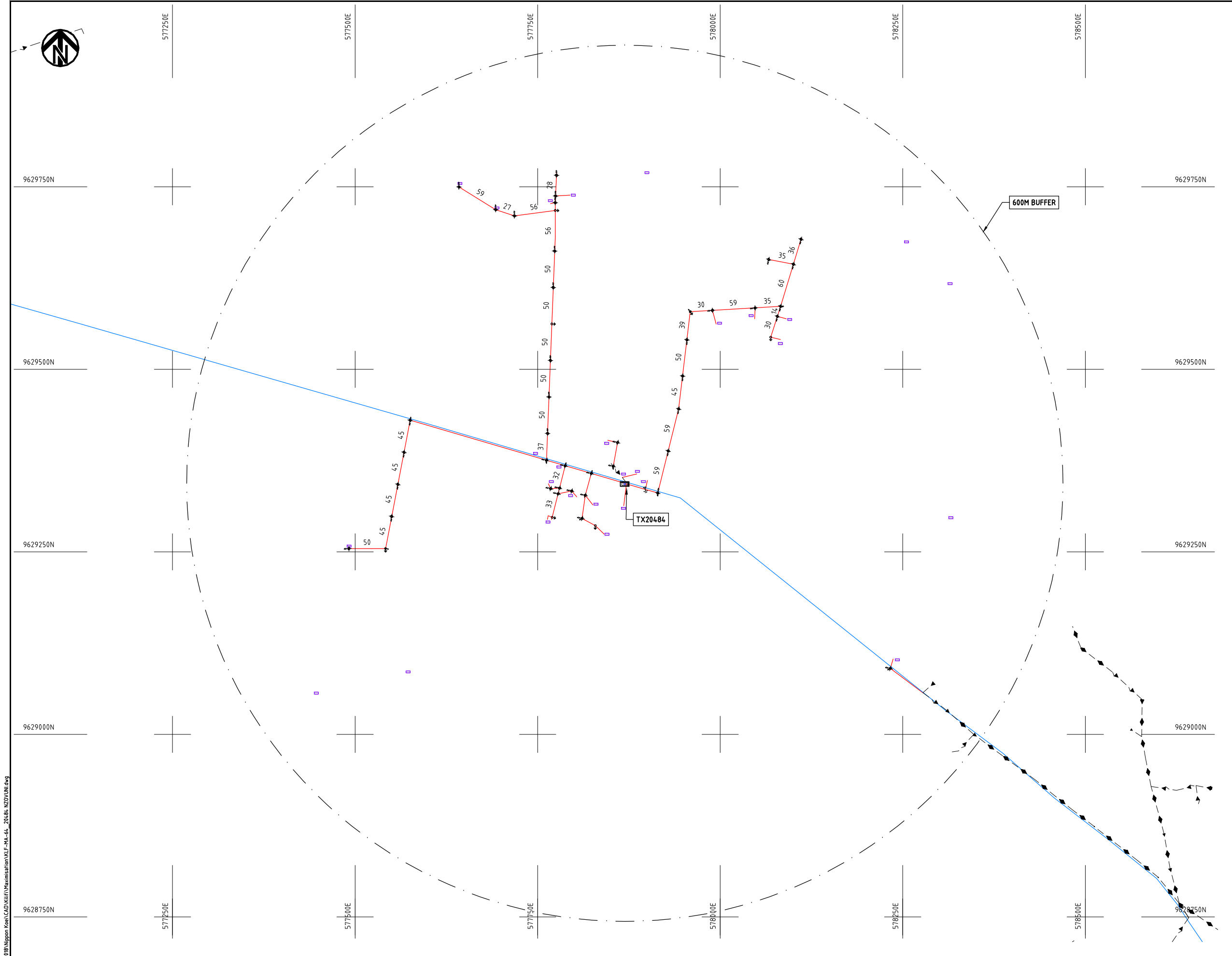
SCALE 1:5000 (A3)

PROJECT:	DRAWING TITLE		DRAW. NO.		PREPARED BY		A.AKBAR
					CHECKED BY		S.MAETA
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 101735 KALONGONI		KLF-MA-63		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

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: 20484-NZOVUNI

DRAW. NO.

KLF-MA-64

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



9604250N

554250E

554500E

554750E

555000E

555250E

555500E

9604250N

9604000N

9604000N

9603750N

9603750N

9603500N

9603500N

9603250N

9603250N

554250E

554500E

554750E

555000E

555250E

555500E

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: 107277 CHAPUNGU

DRAW. NO.

KLF-MA-65

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

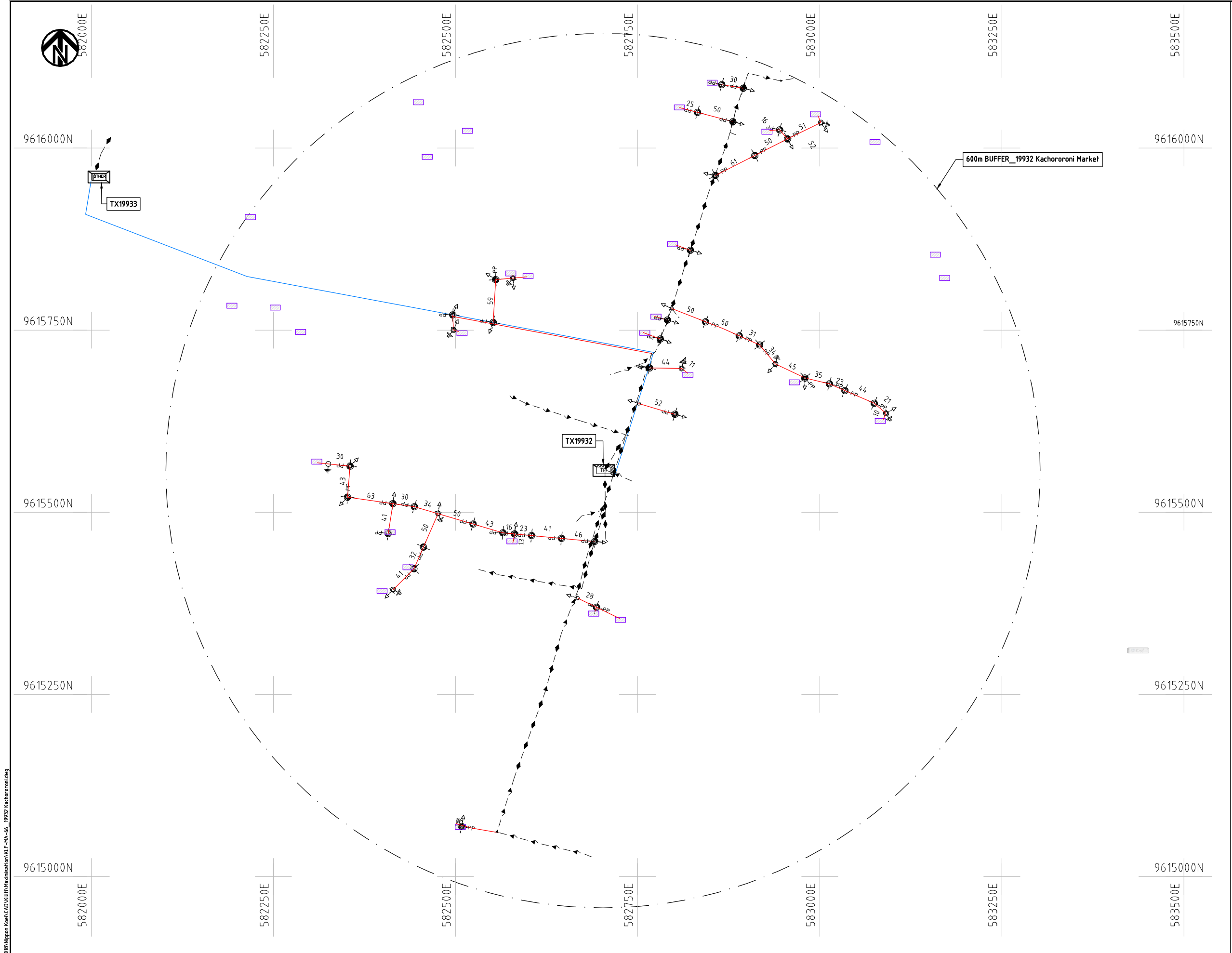
Y.TANAKA

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
 - PP WOODEN ELECTRIC POLES
 - CP CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

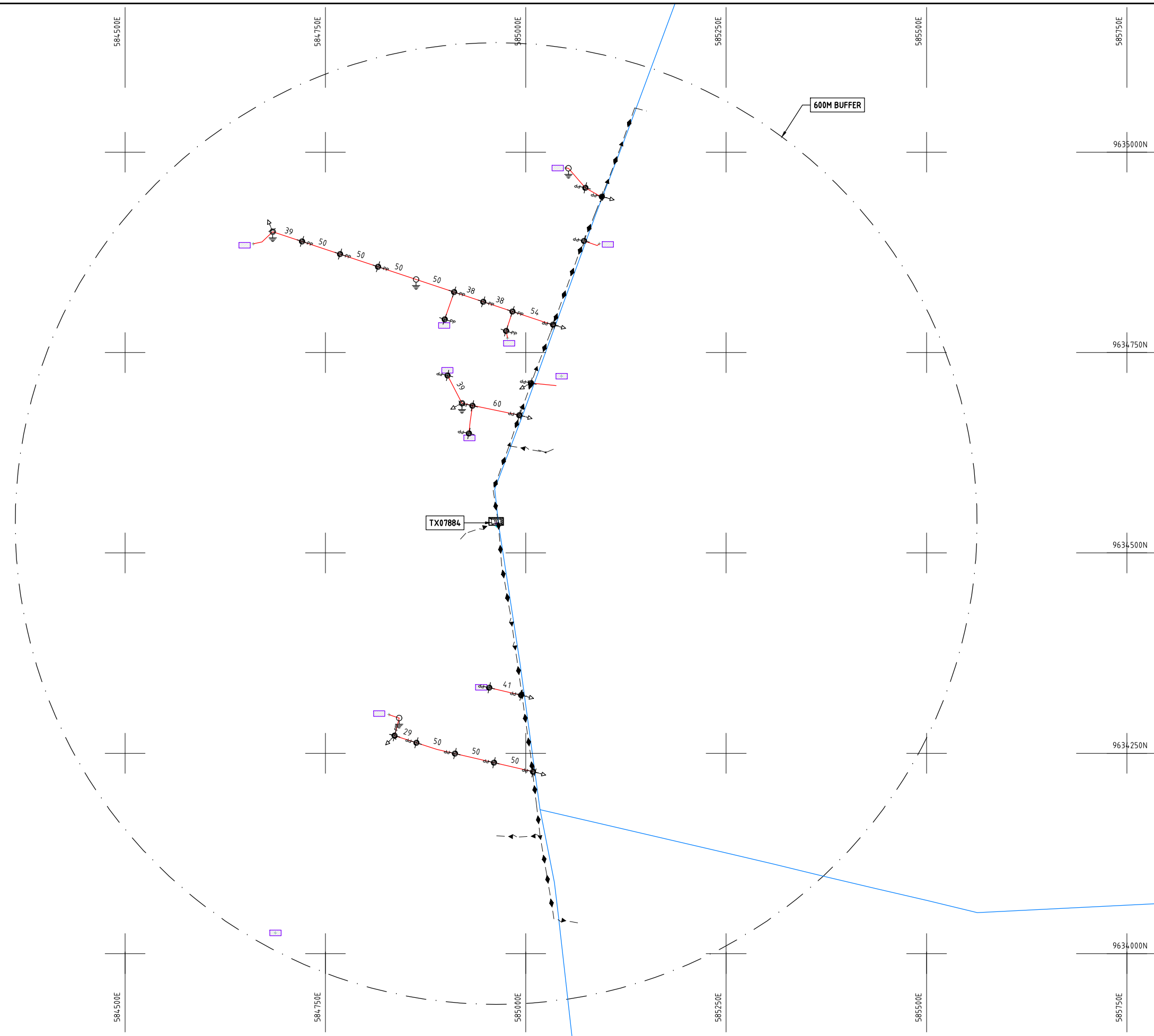


Cdr File No. DA/Frank-Proj/2018	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 19932 KACHORORONI		KLF-MA-66	CHECKED BY	S.MAETA
					APPROVED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



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

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-67_07884_MWAHERA.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
- CP CONCRETE ELECTRIC POLES 12M
- CP 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: 07884-MWAHERA

DRAW. NO.

KLF-MA-67

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

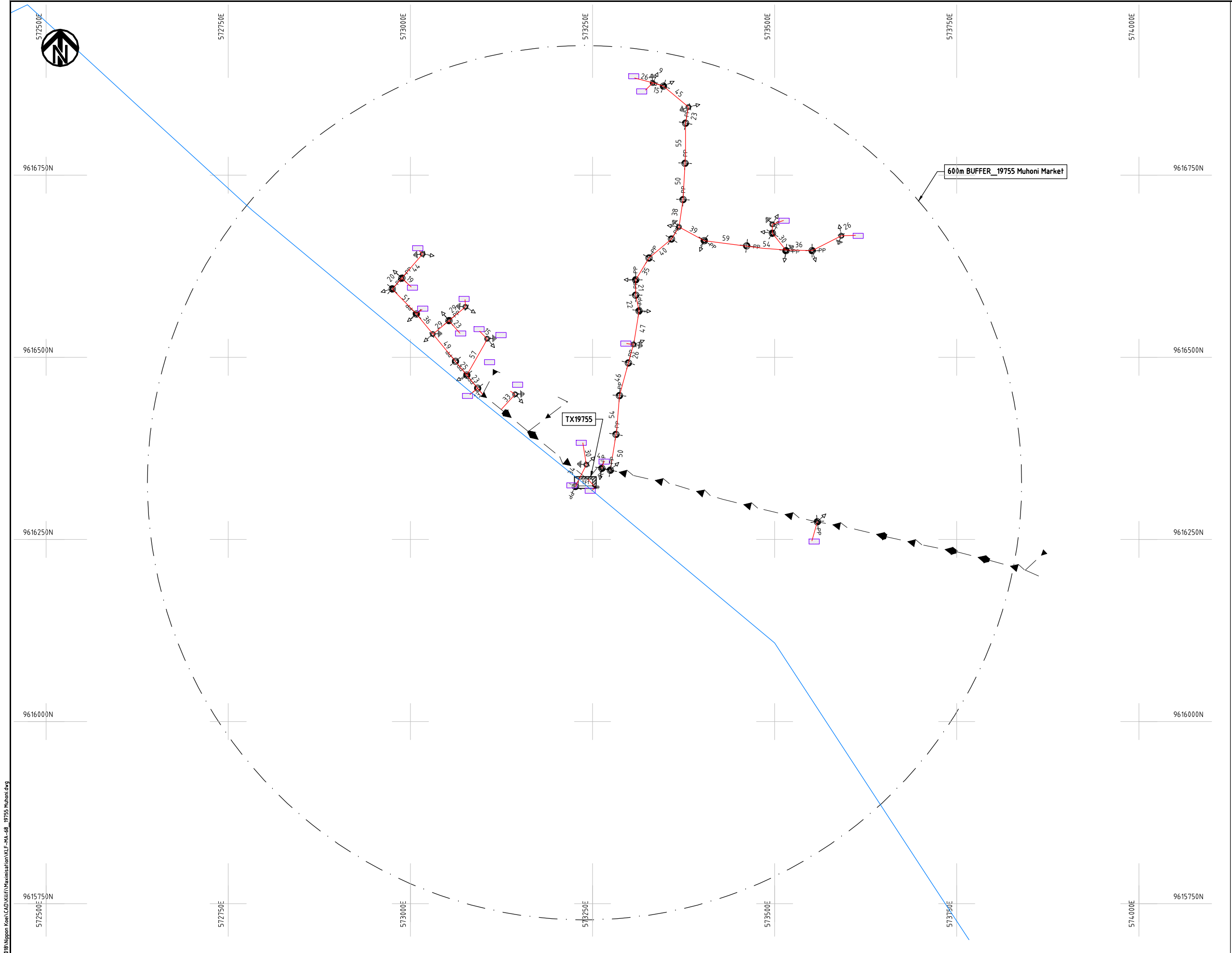
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-68_19755 Muhoni.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

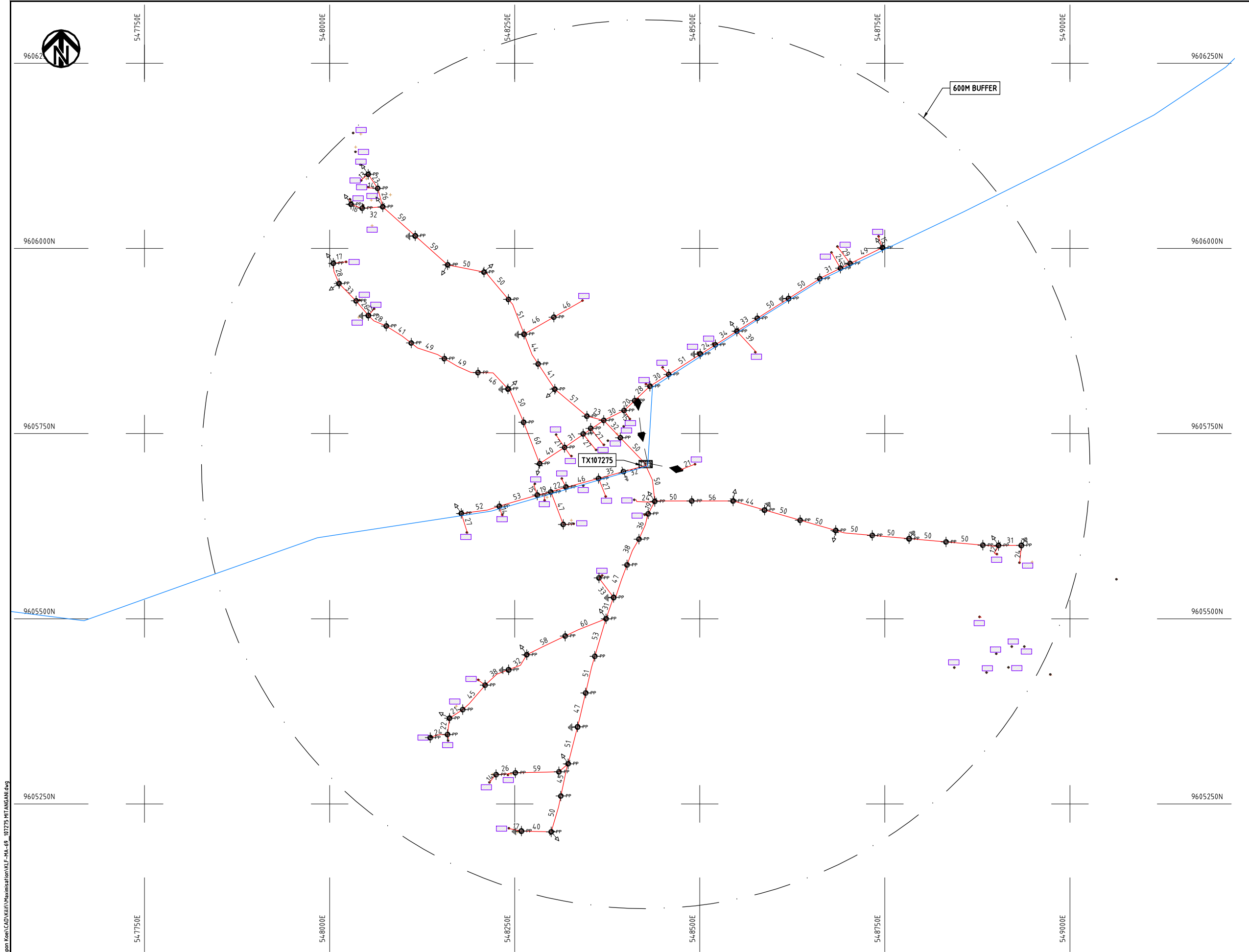
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- 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		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	KILIFI	KLF-MA-68	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	19755 MUHONI		DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-69_107275 MITANGANI.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

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: 107275 MITANGANI

DRAW. NO.

KLF-MA-69

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

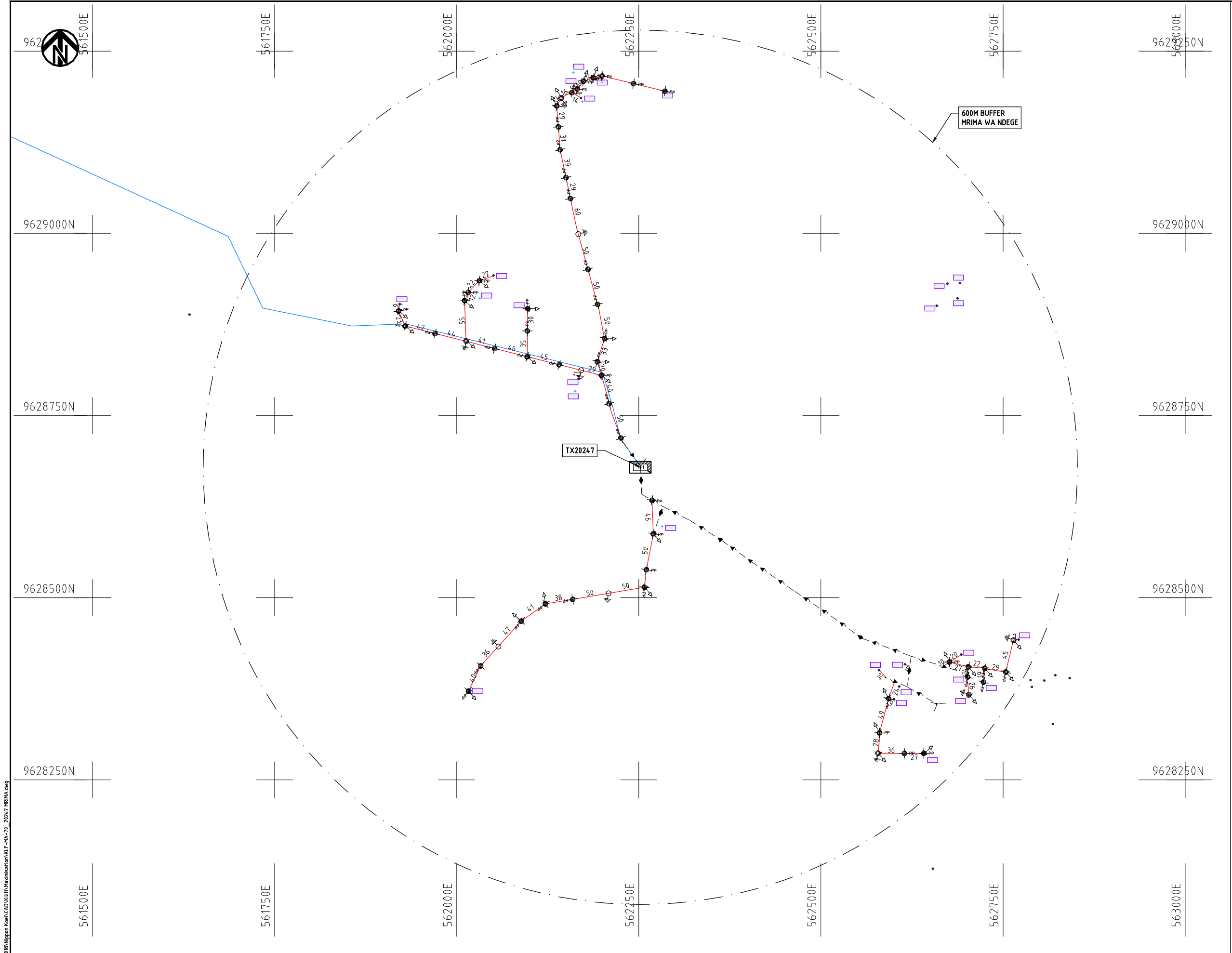
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-70_20247_MRMA.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.

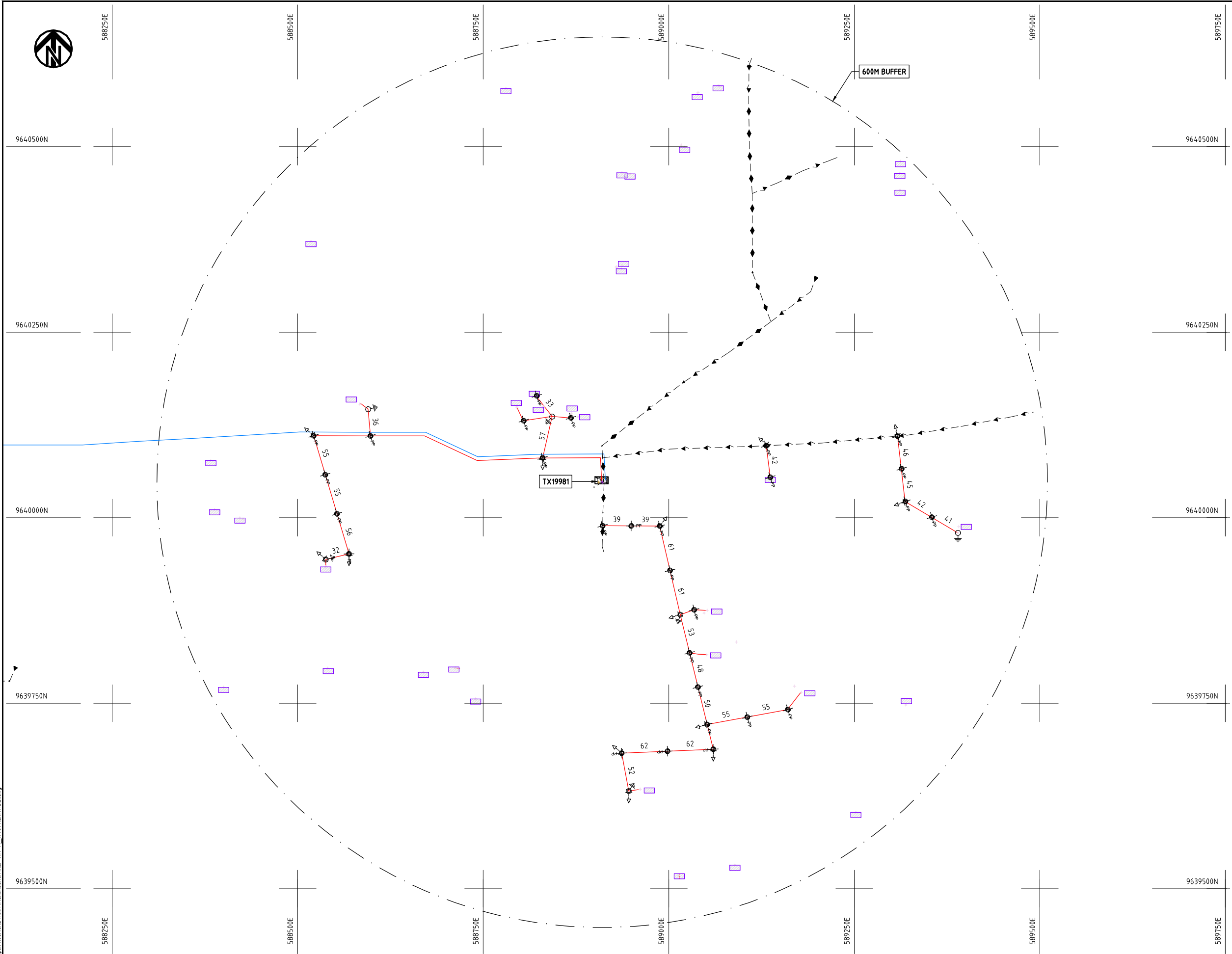
LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- 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		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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP 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: 19981 MEKATILILI

DRAW. NO.

KLF-MA-71

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

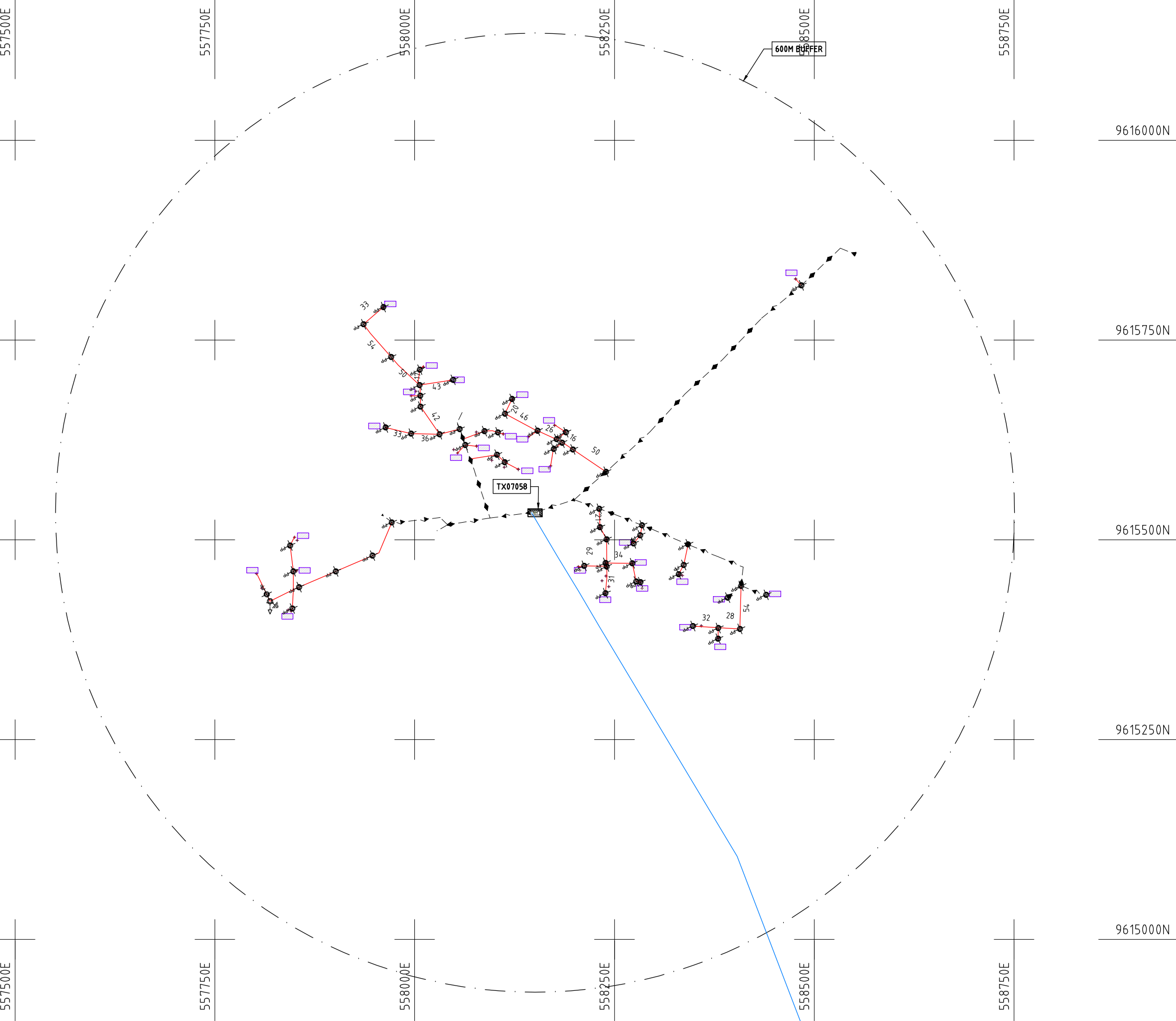
Y.TANAKA

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

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: 07058 BANDARI MARKET

DRAW. NO.

KLF-MA-73

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

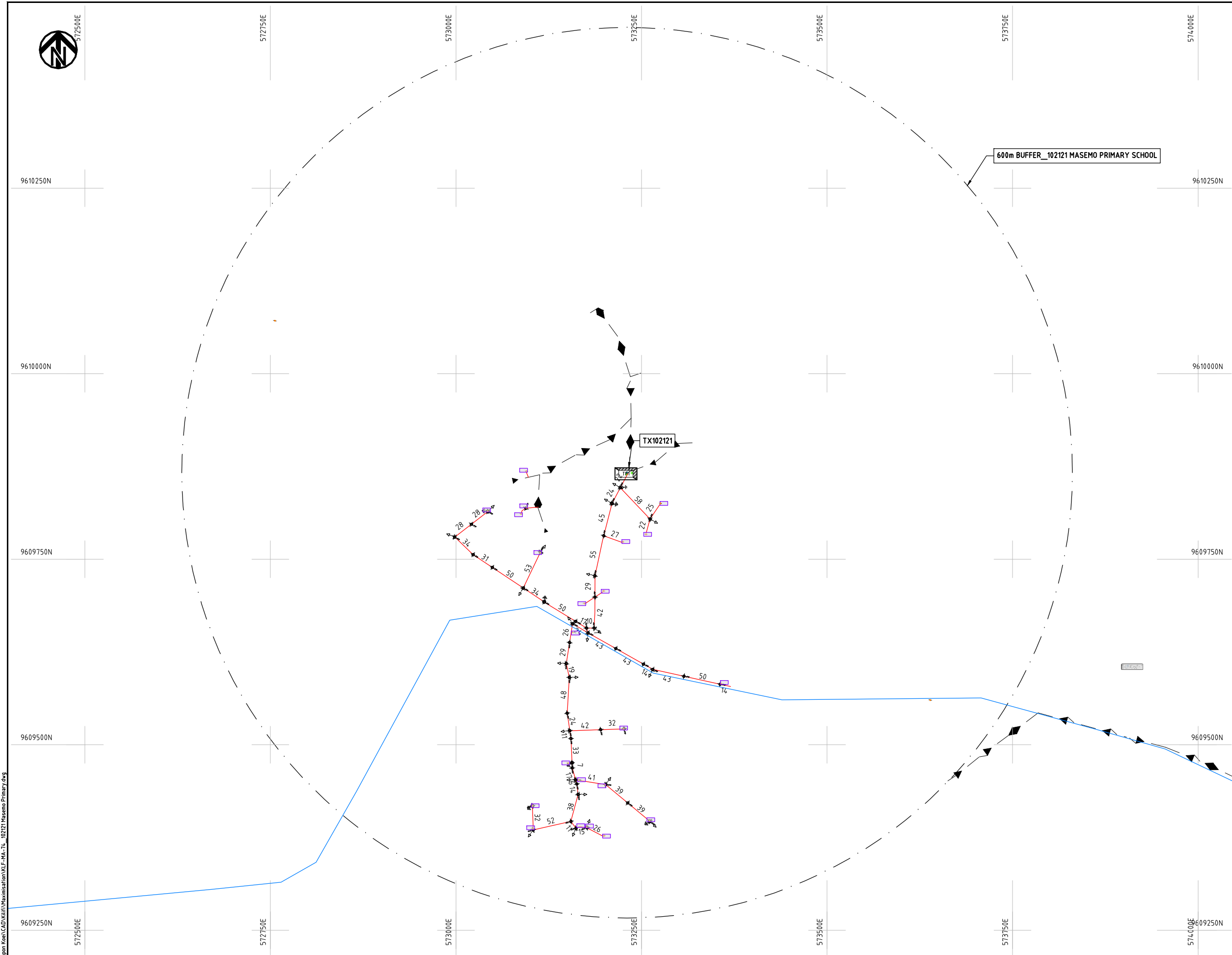
Y.TANAKA

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)

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: 102121 MASEMO PRIMARY

DRAW. NO.

KLF-MA-74

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

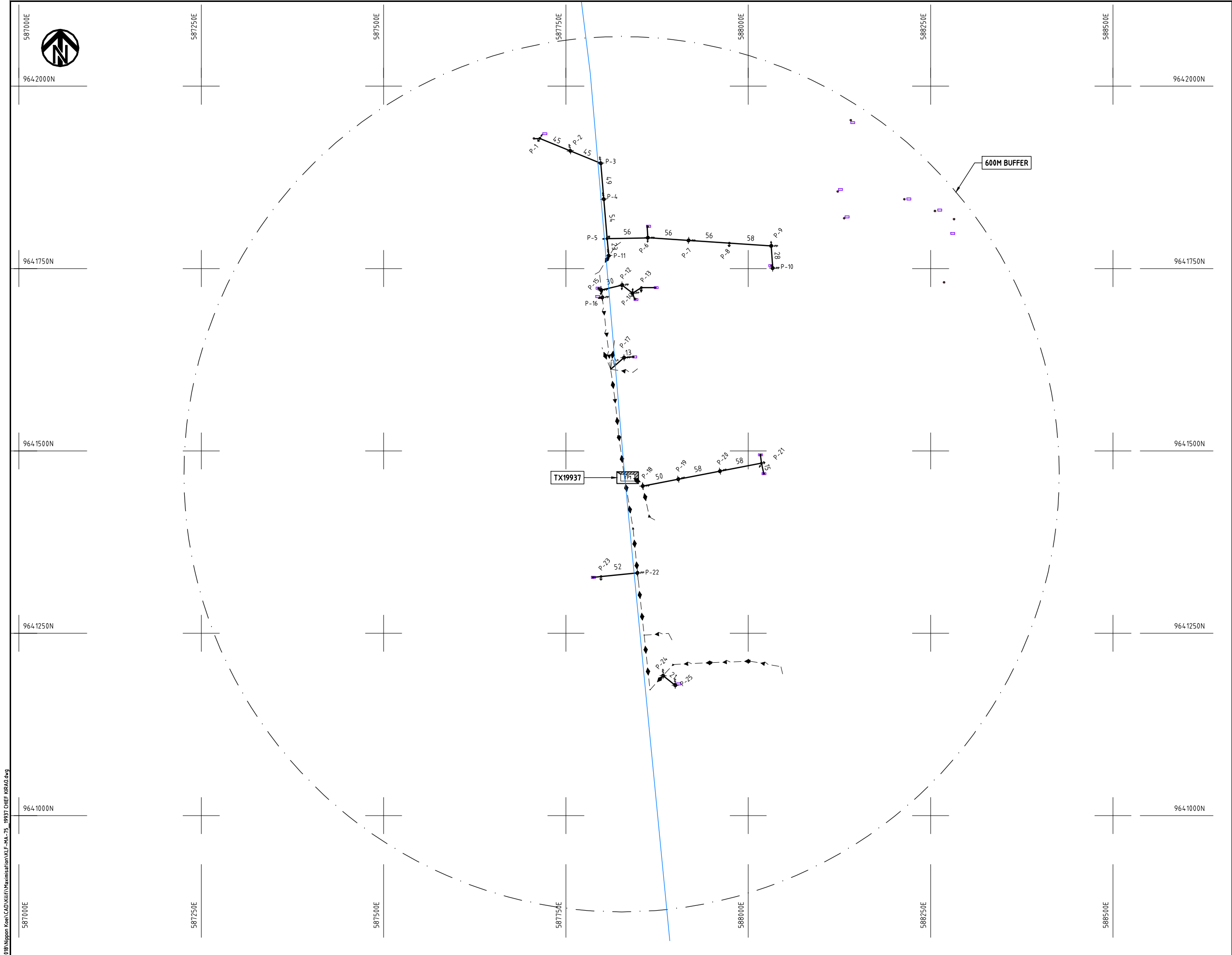
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-75_1993T CHIEF KIRA0.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
- CP CONCRETE ELECTRIC POLES 12M
- CP 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: 19937-CHIEF KIRA0

DRAW. NO.

KLF-MA-75

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

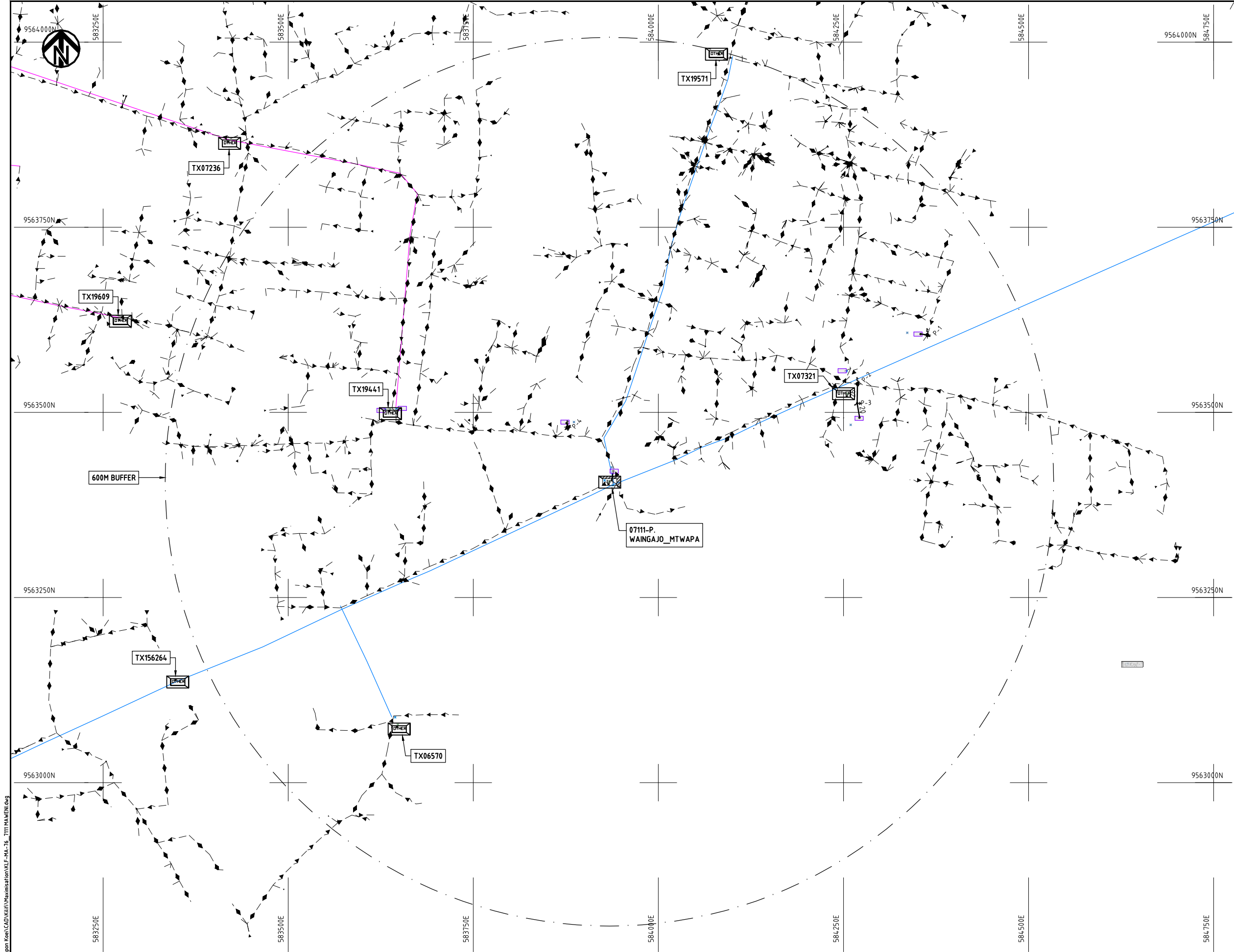
Y.TANAKA

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.

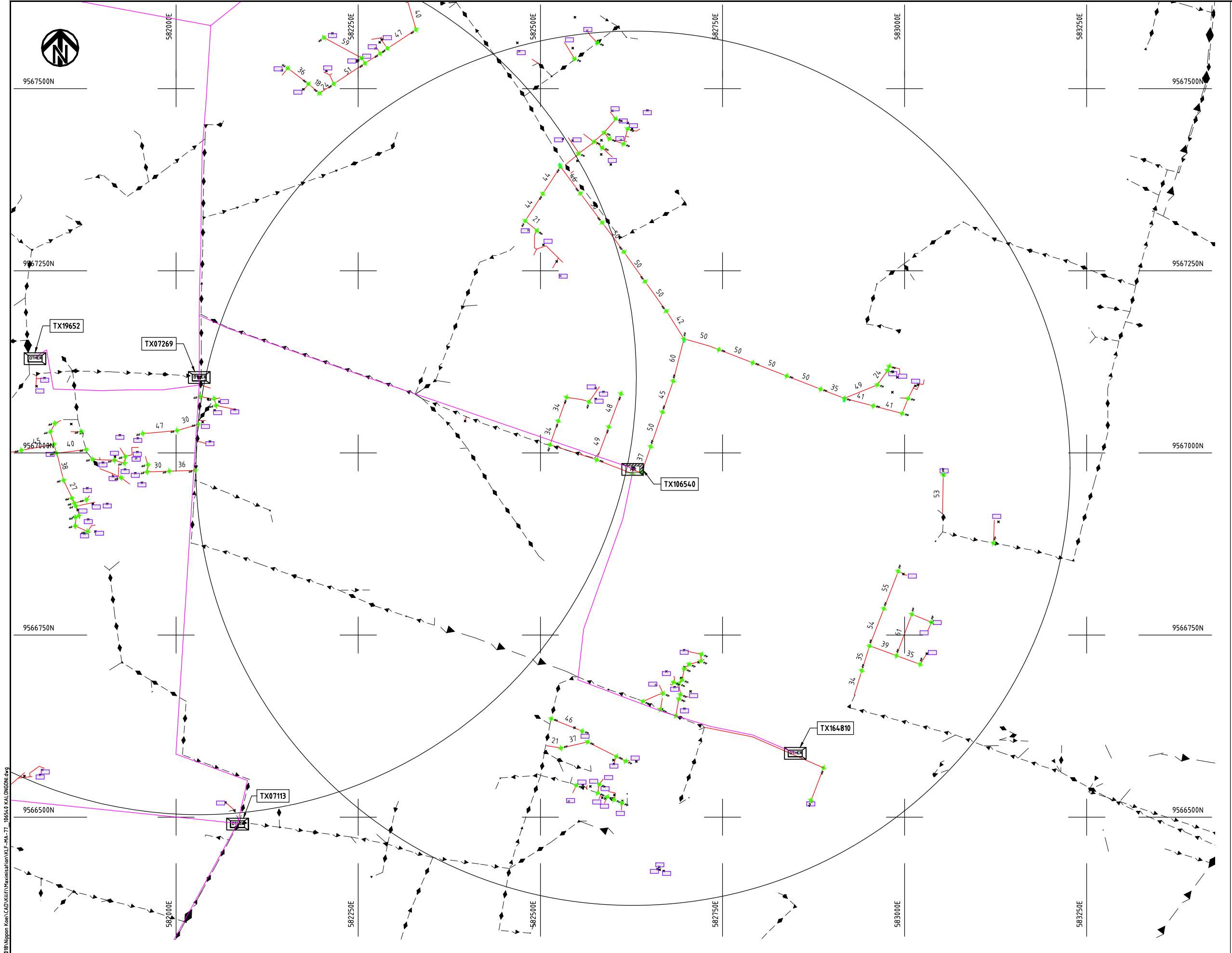
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - PROPOSED 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES 12M
 - CONCRETE ELECTRIC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



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PROJECT: 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	KLF-MA-76	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	07111-MAWENI		DATE	10th SEP 2018

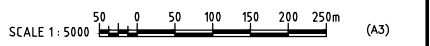




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE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

LEGEND

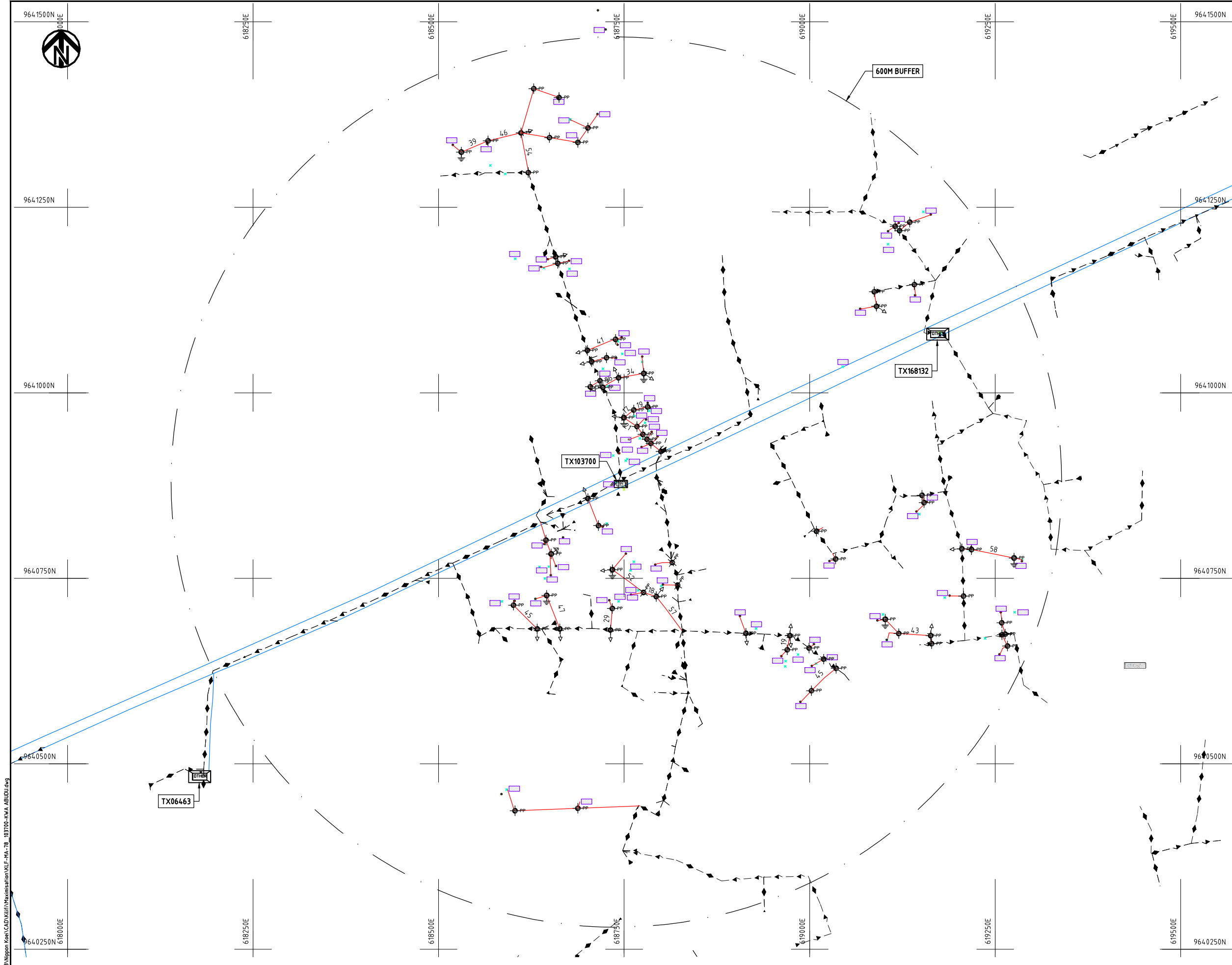
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-77_106540 KALONGONI.dwg

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	KLF-MA-77	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	106540 KALONGONI		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

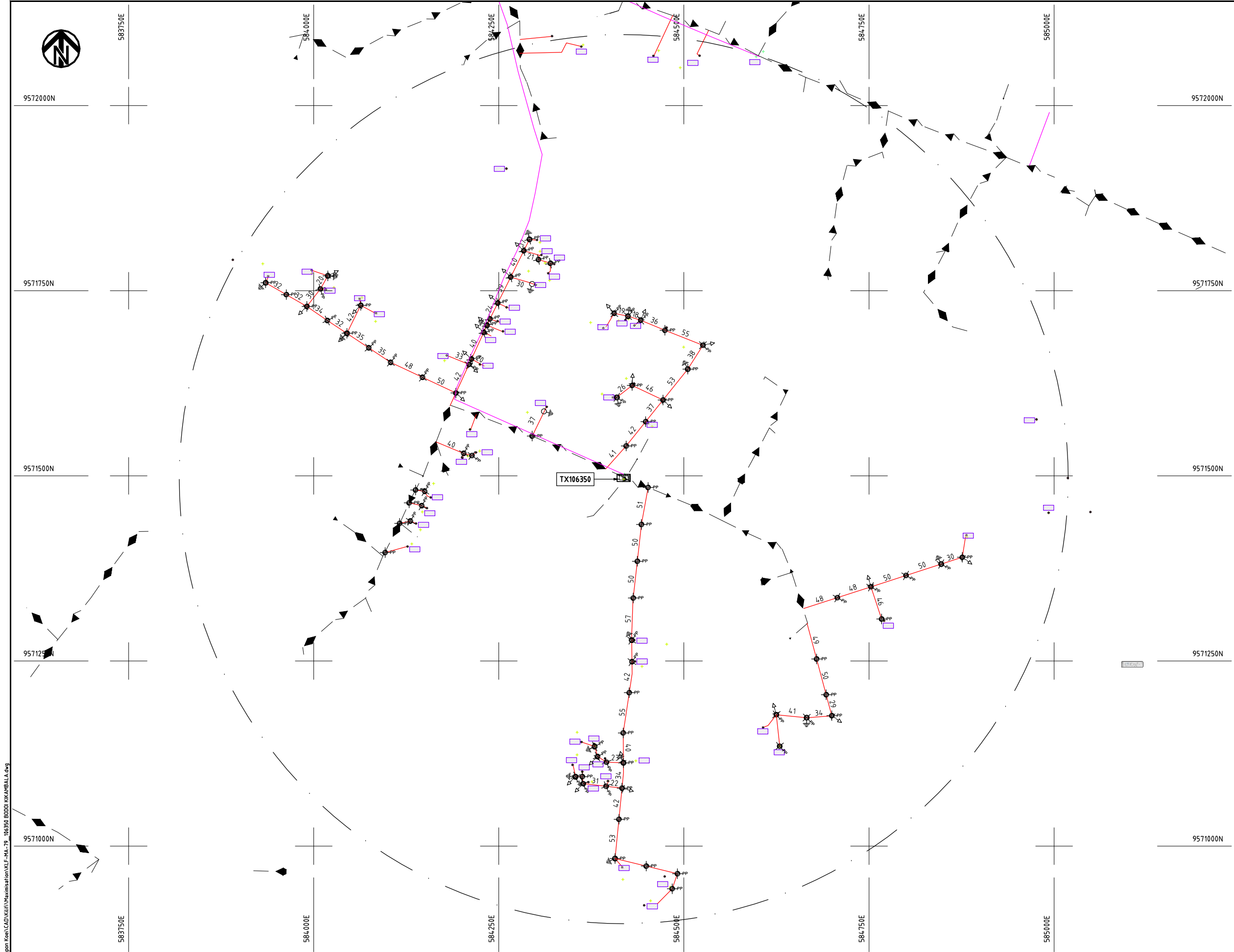


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	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: KILIFI		KLF-MA-78	CHECKED BY	S.MAETA
		SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA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



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-79_106350 BODOI KIKAMBALA.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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP 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: 106350 BODOI KIKAMBALA

DRAW. NO.

KLF-MA-79

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

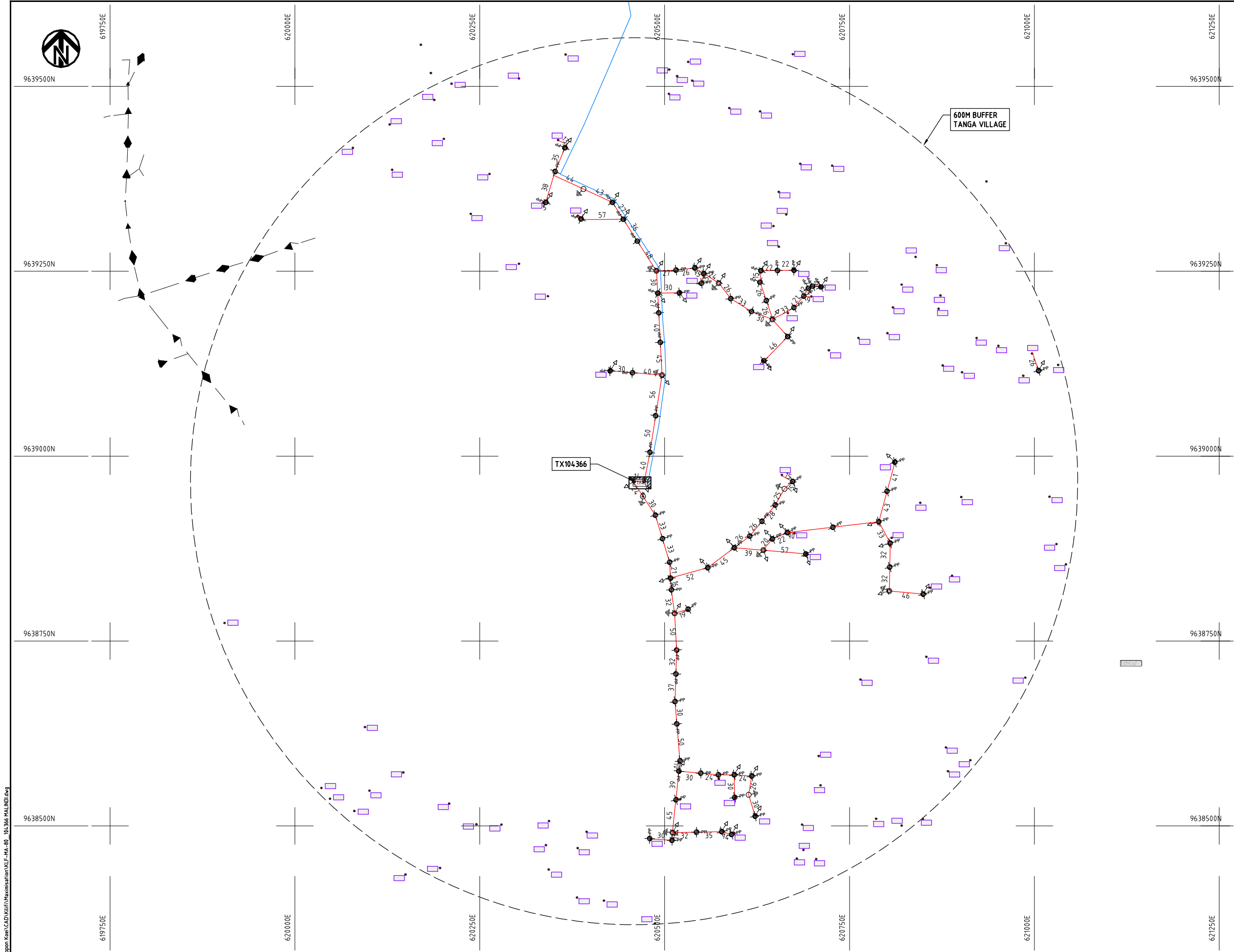
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-80_104366 MALINDI.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
- 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: 104366 MALINDI

DRAW. NO.

KLF-MA-80

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

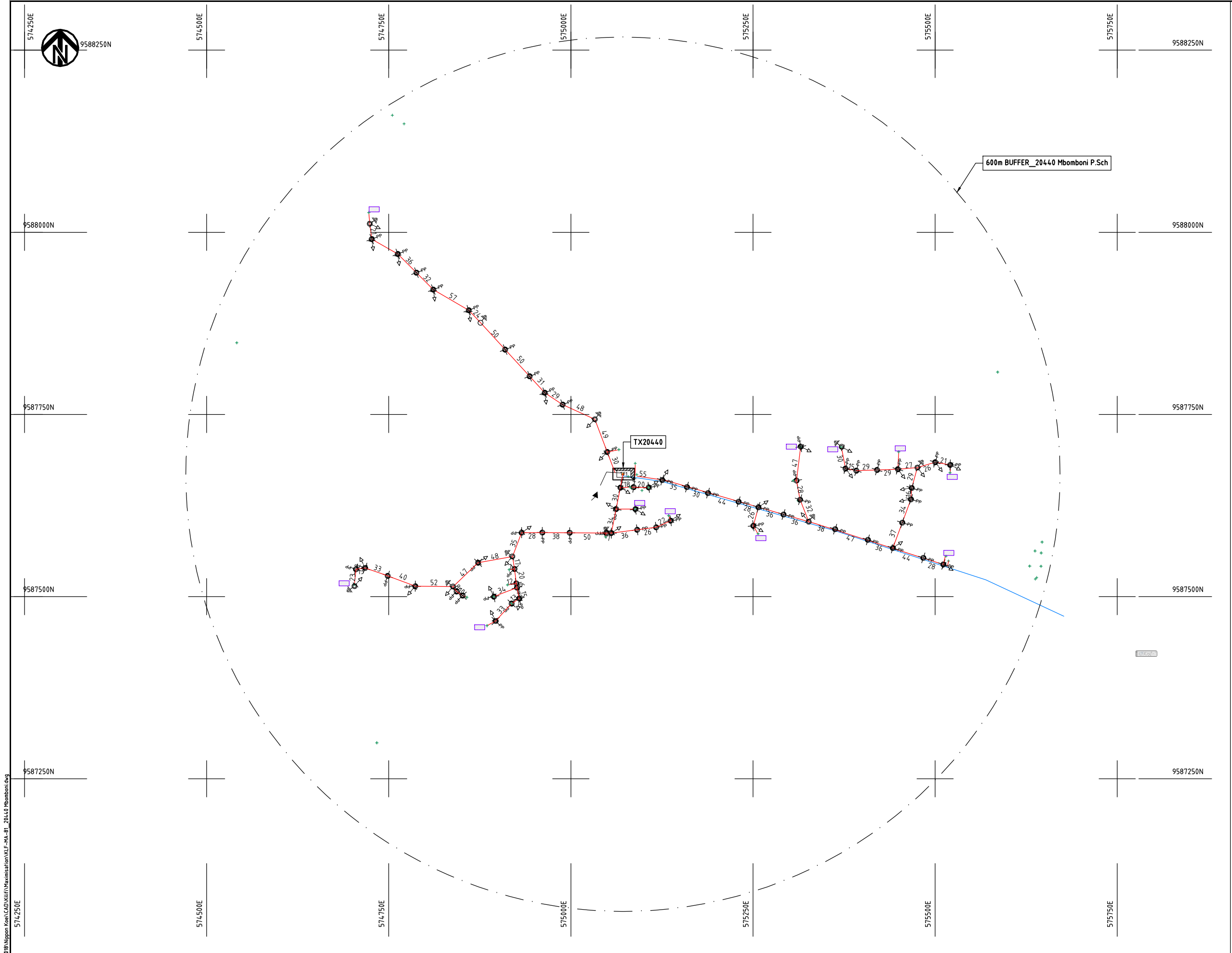
Y.TANAKA

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

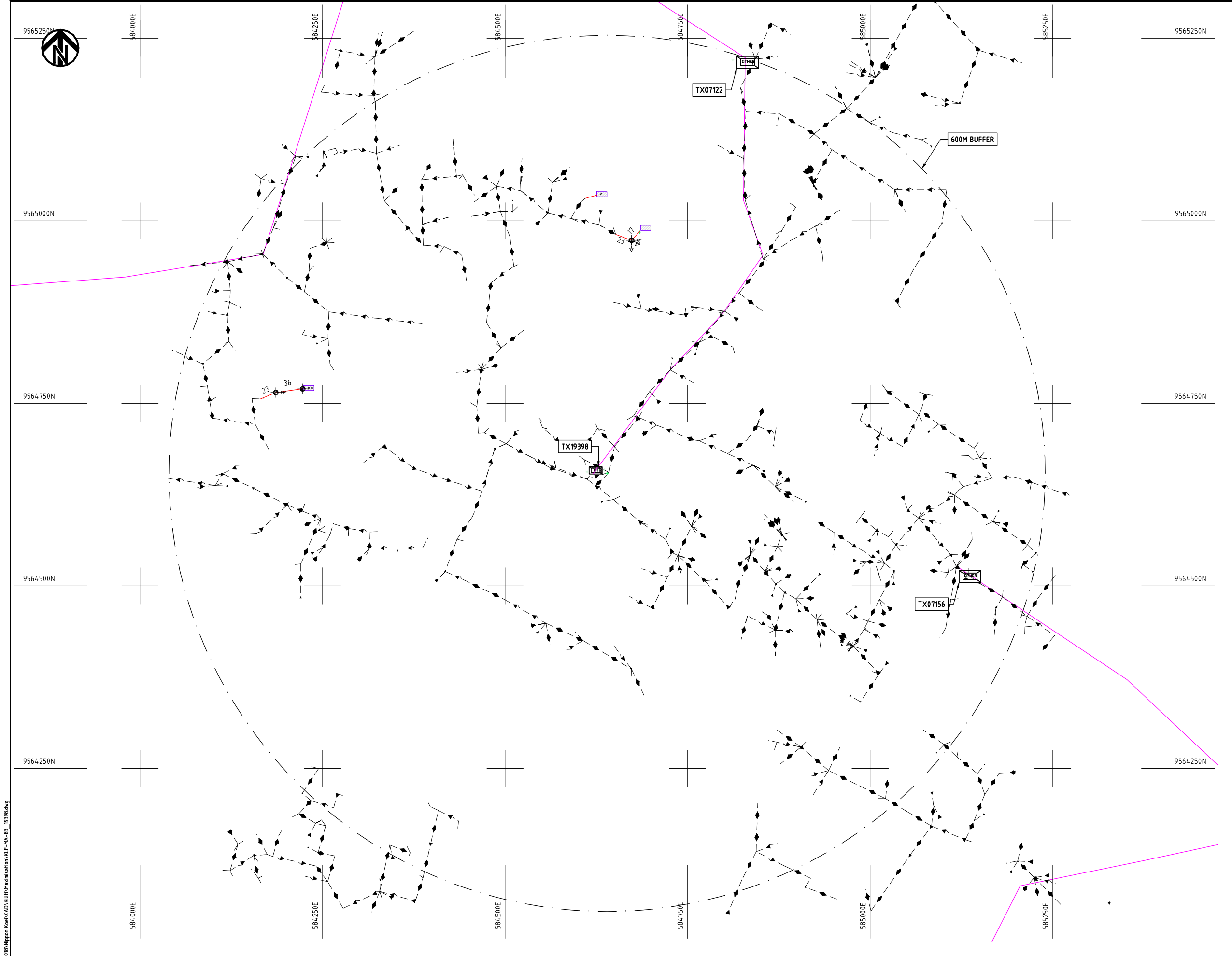


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	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY:	KILIFI	KLF-MA-81	CHECKED BY	S.MAETA
		SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA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



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-83_19398.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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP 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: 19398 -19398

DRAW. NO.

KLF-MA-83

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

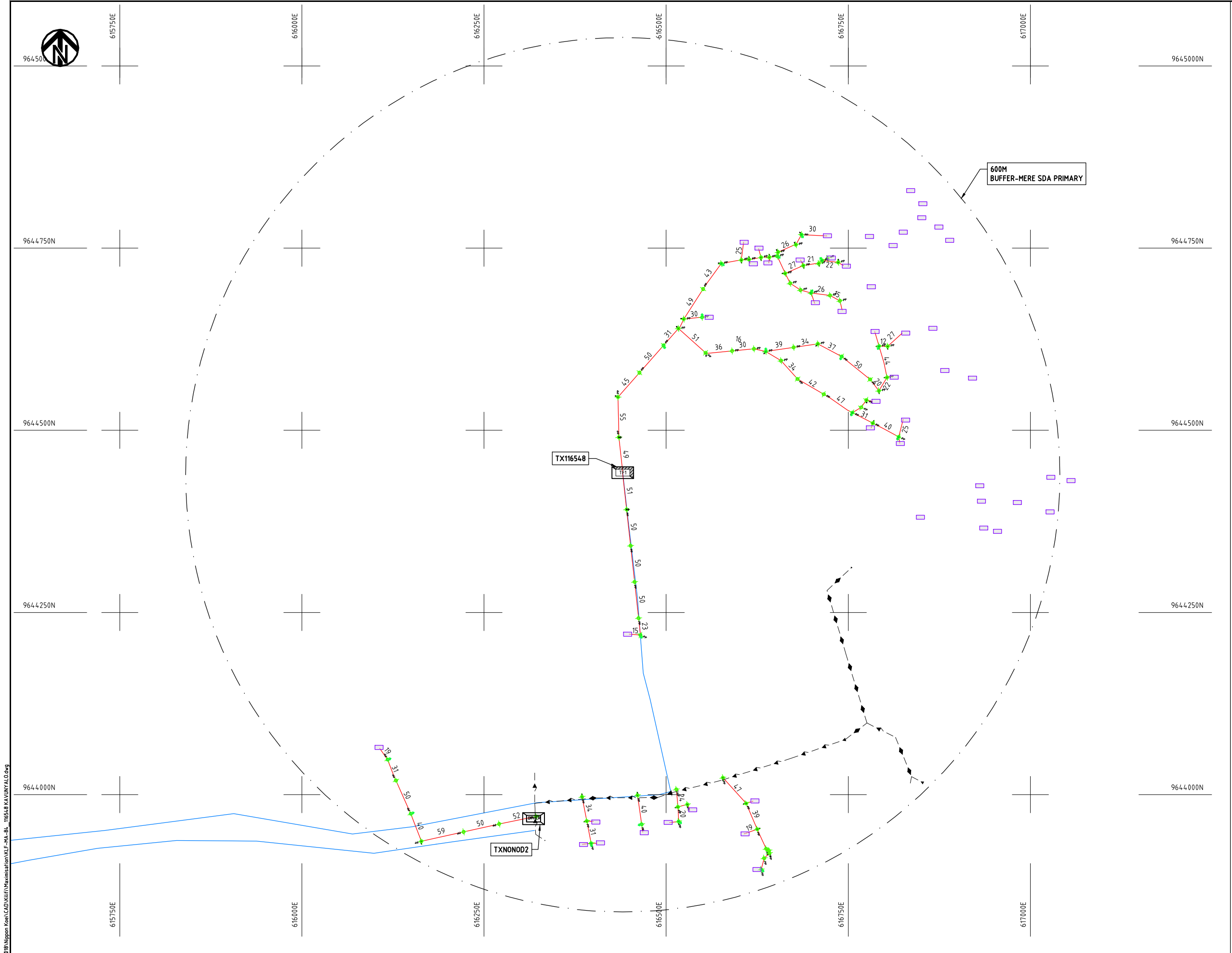
Y.TANAKA

DATE

10th SEP 2018

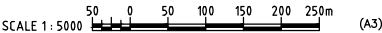


NIPPON KOEI CO., LTD



- 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.

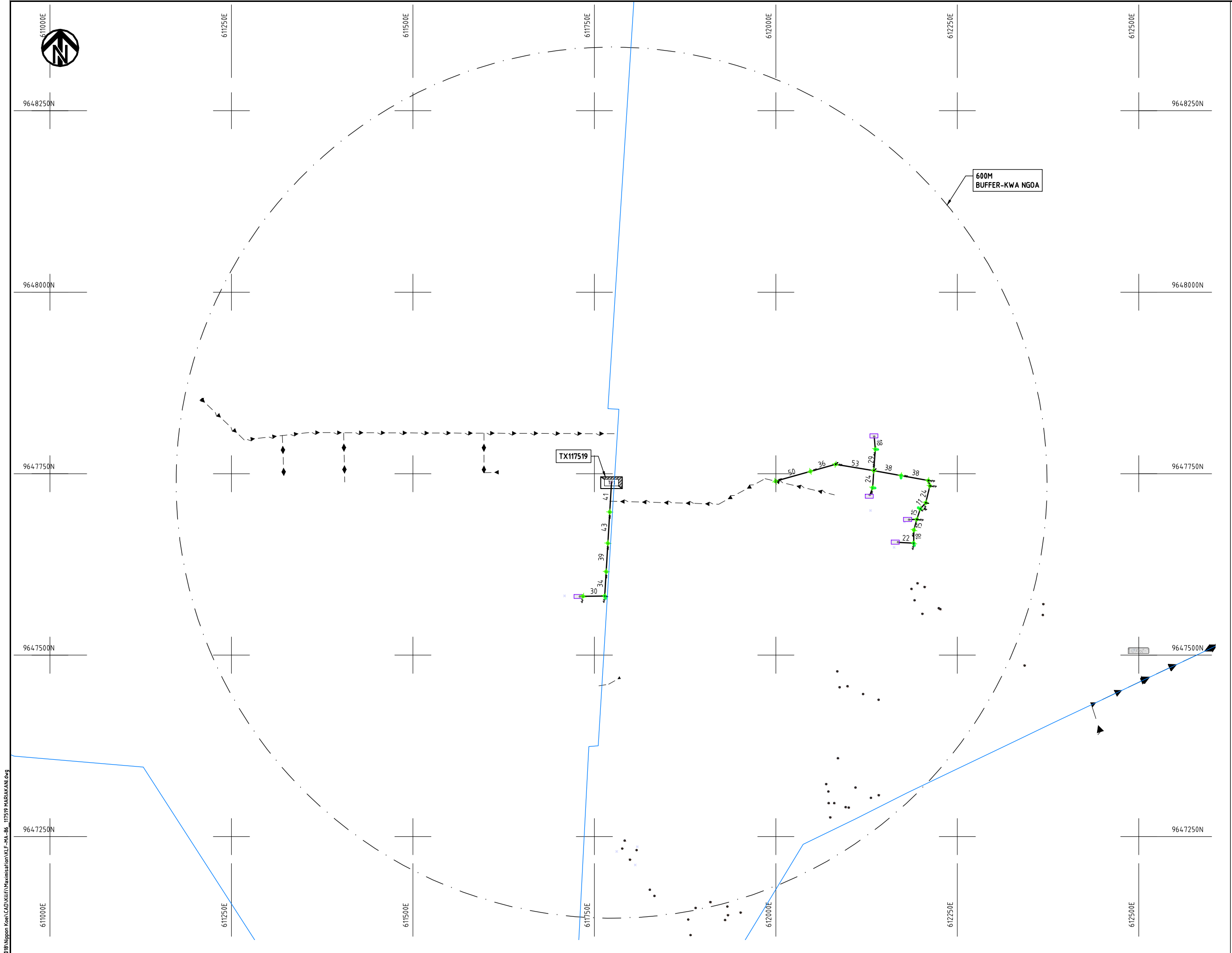
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - PROPOSED 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES 12M
 - CONCRETE ELECTRIC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



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-84_116548 KAVUNYALO.dwg

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	KLF-MA-84	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	116548 KAVUNYALO		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.

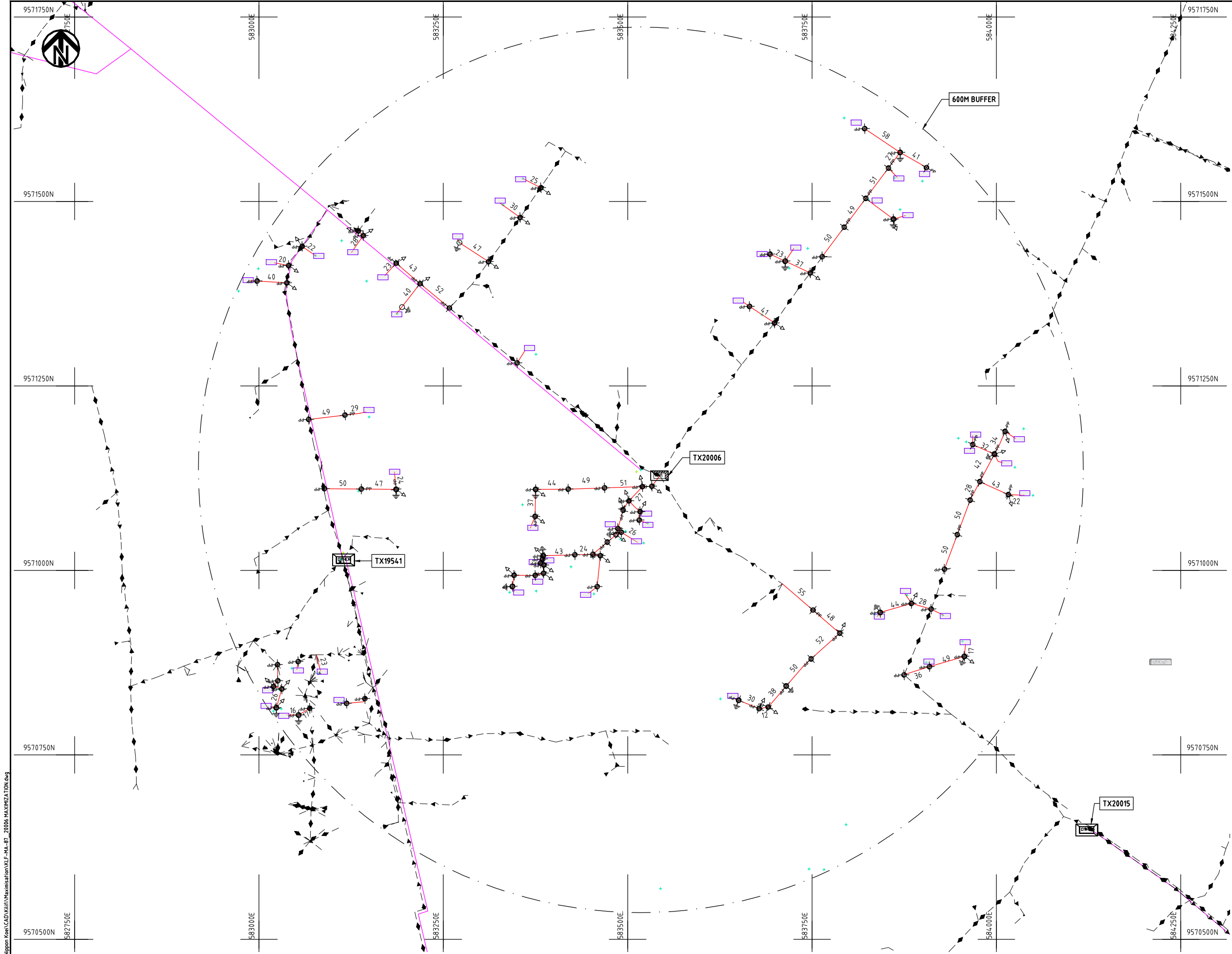
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - PROPOSED 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES 12M
 - CONCRETE ELECTRIC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

SCALE 1:5000 50 0 50 100 150 200 250m (A3)

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-86_117519 MARIKANI.dwg

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	KLF-MA-86	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	117519 MARIAKANI		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

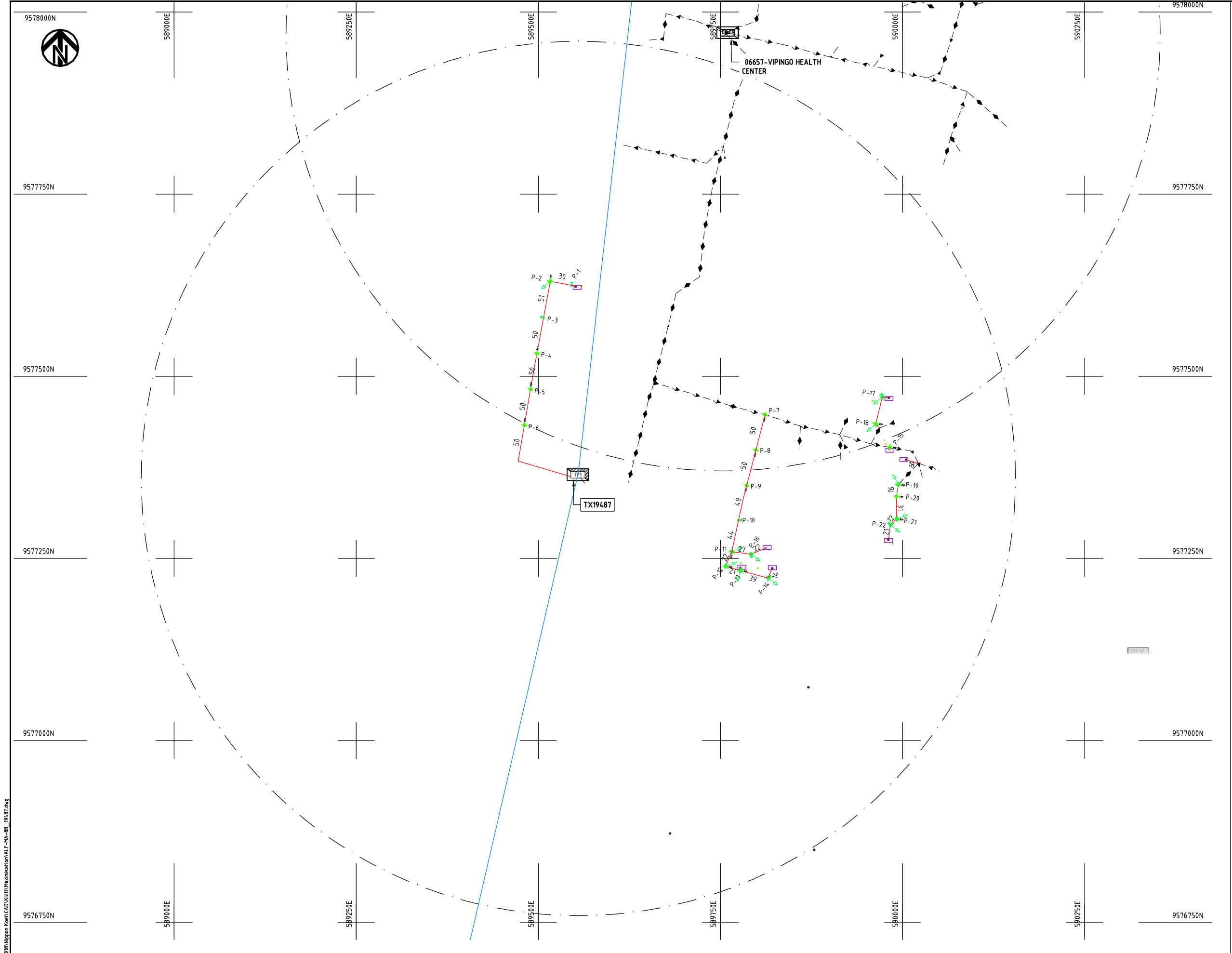
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH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



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximization\KLF-MA-87_20006 MAXIMIZATION.dwg

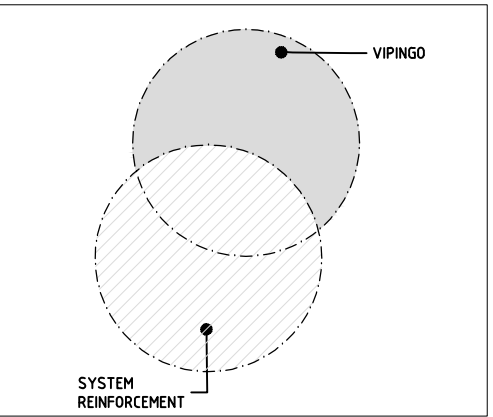
PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	KILIFI	KLF-MA-87	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	20006 MAXIMIZATION		DATE	10th SEP 2018





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

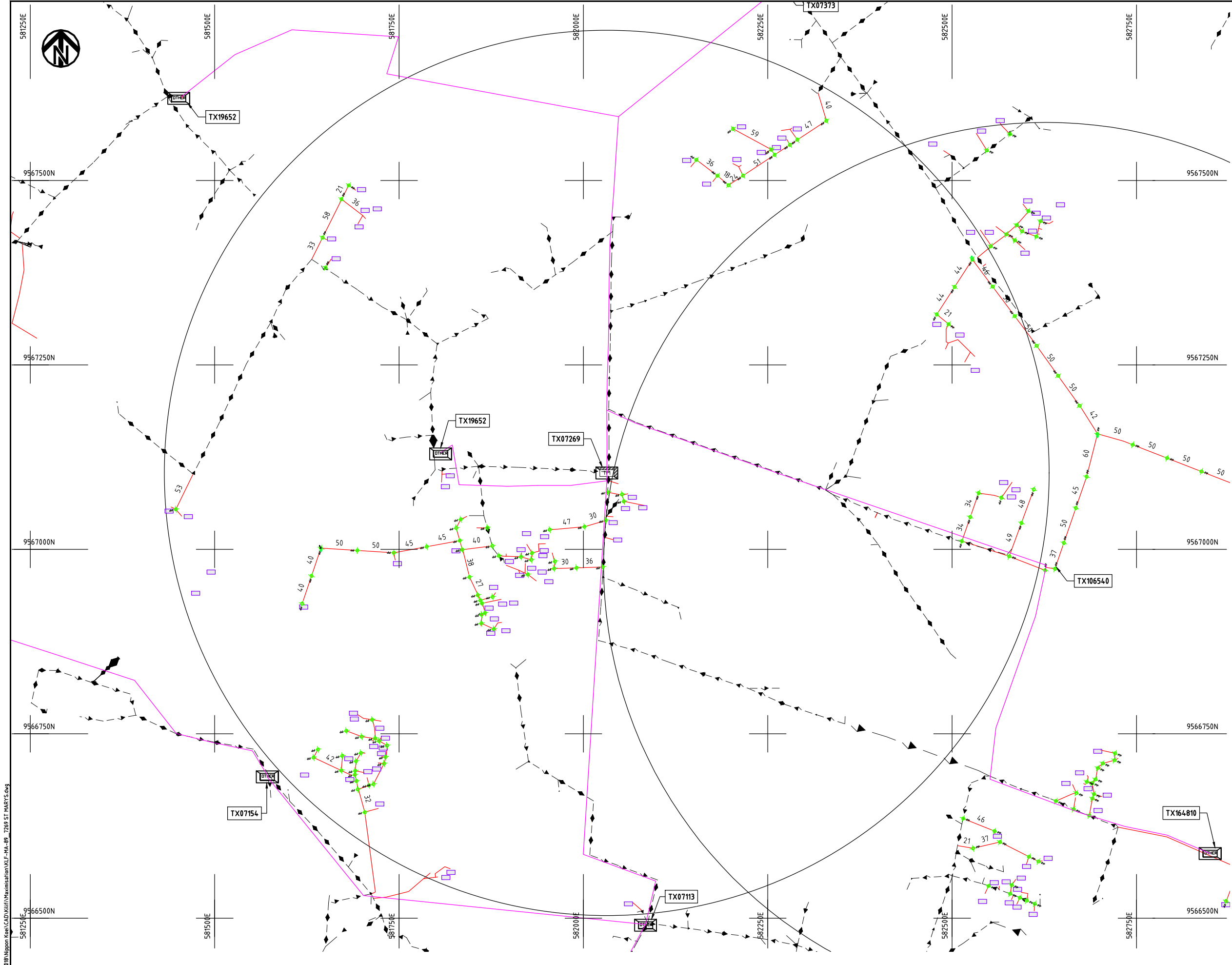
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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



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

PROJECT: 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	KLF-MA-88	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	19487-19487		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

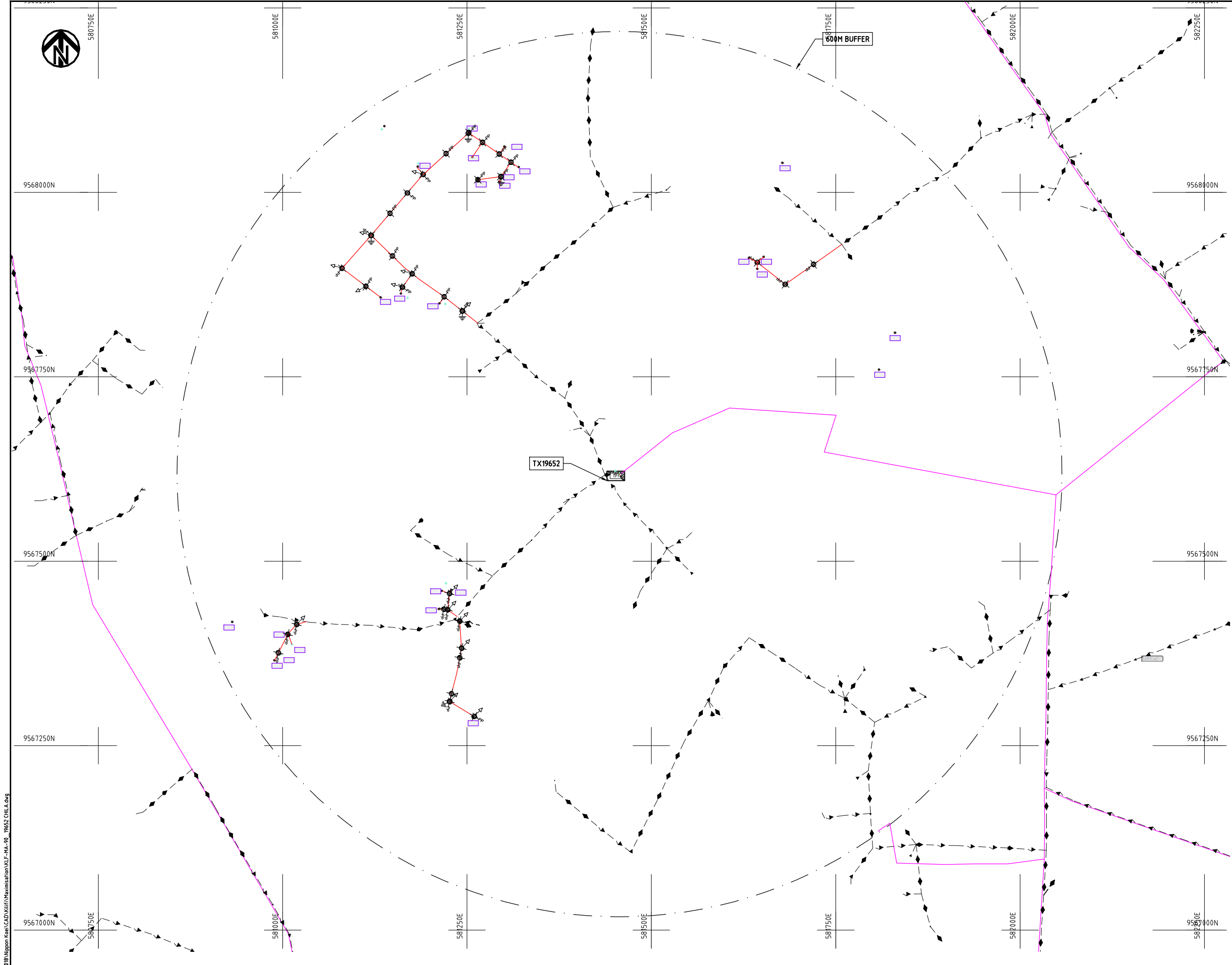
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - PROPOSED 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES 12M
 - CONCRETE ELECTRIC 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: 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	KLF-MA-89	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	07269-ST MARYS		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.

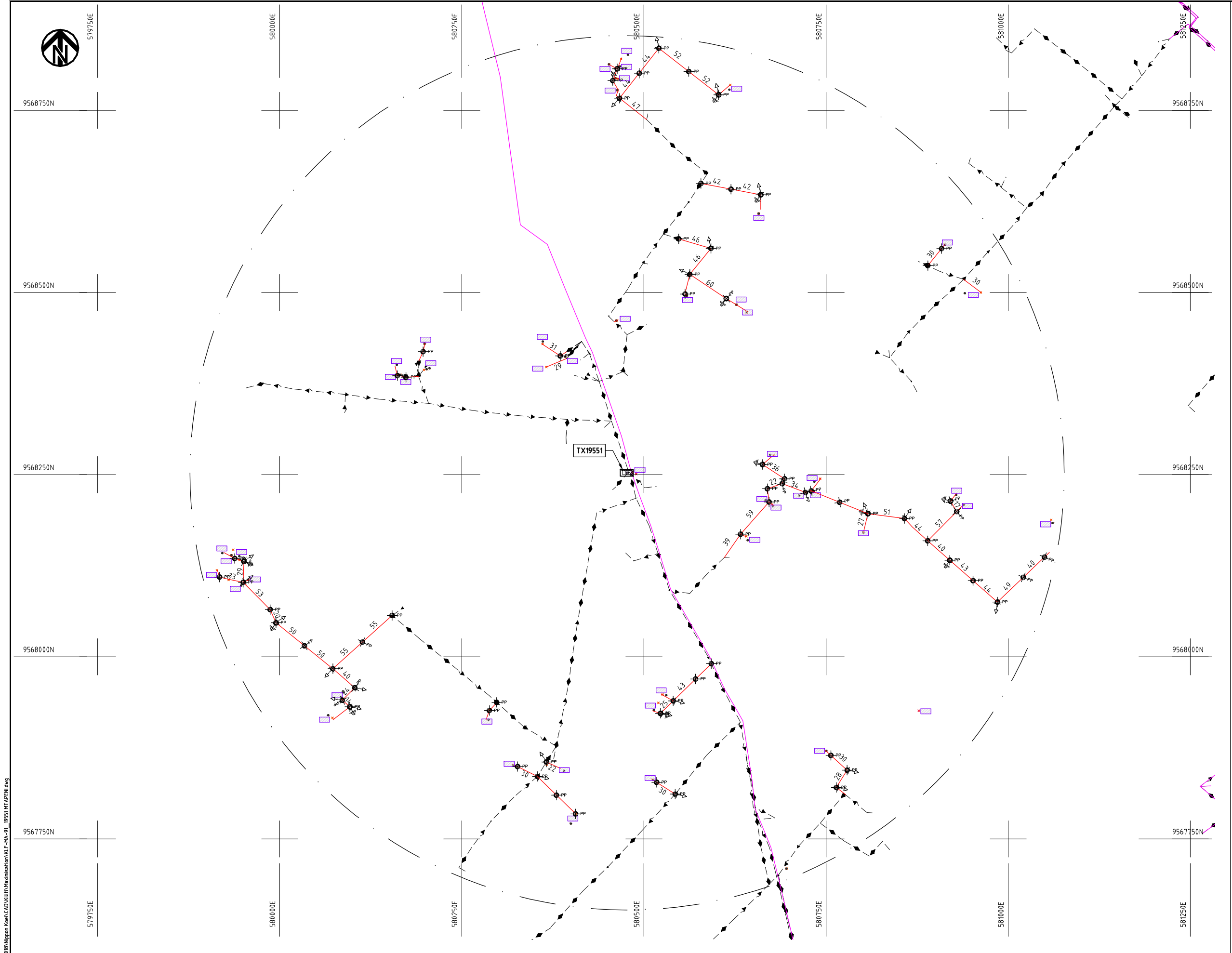
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE 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		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	KILIFI	KLF-MA-90	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	19652 CHILA		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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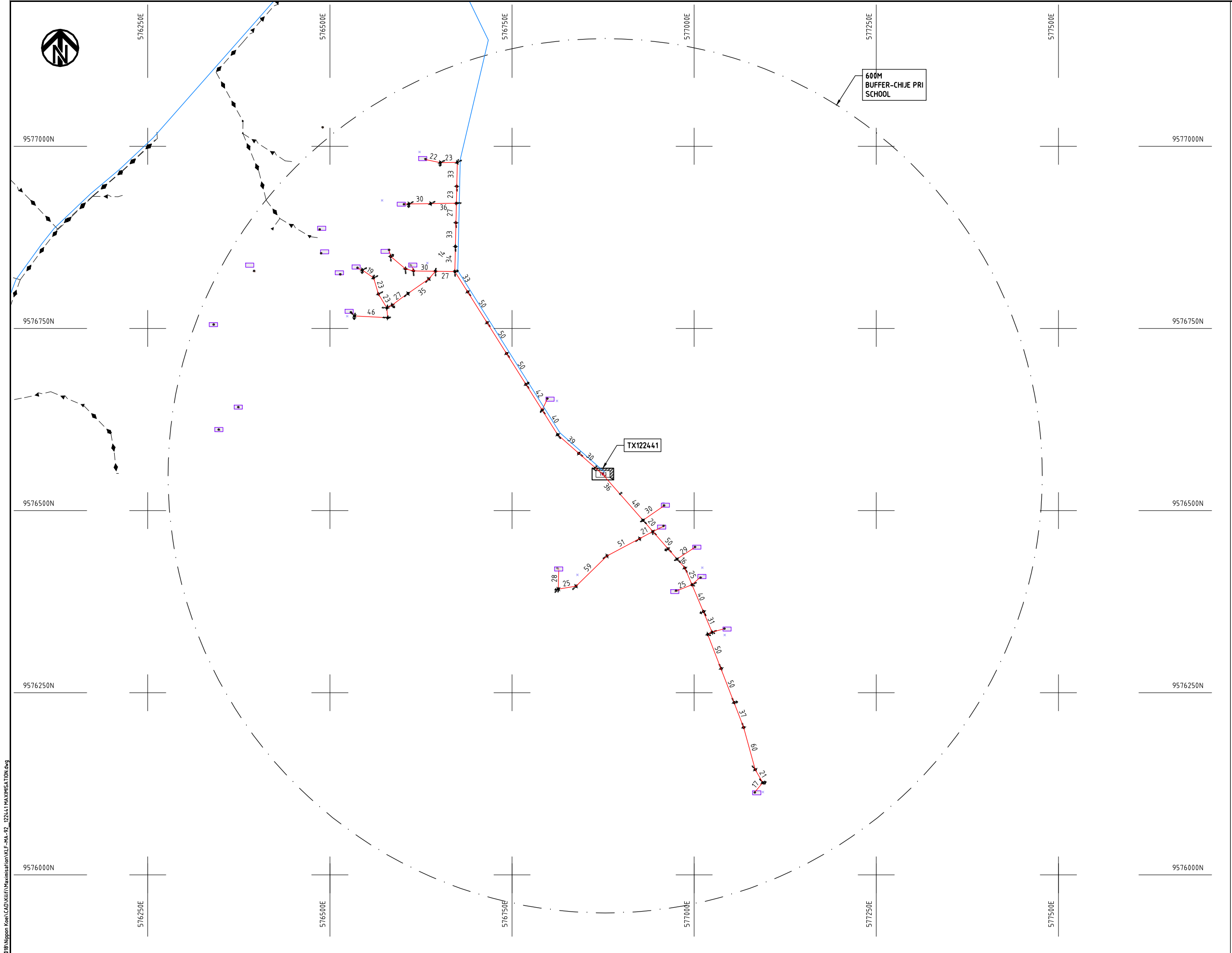
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - PP WOODEN ELECTRIC POLES
 - CP CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY



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

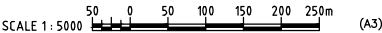
PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	KILIFI	KLF-MA-91	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	19551 MTAPENI		DATE	10th SEP 2018





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

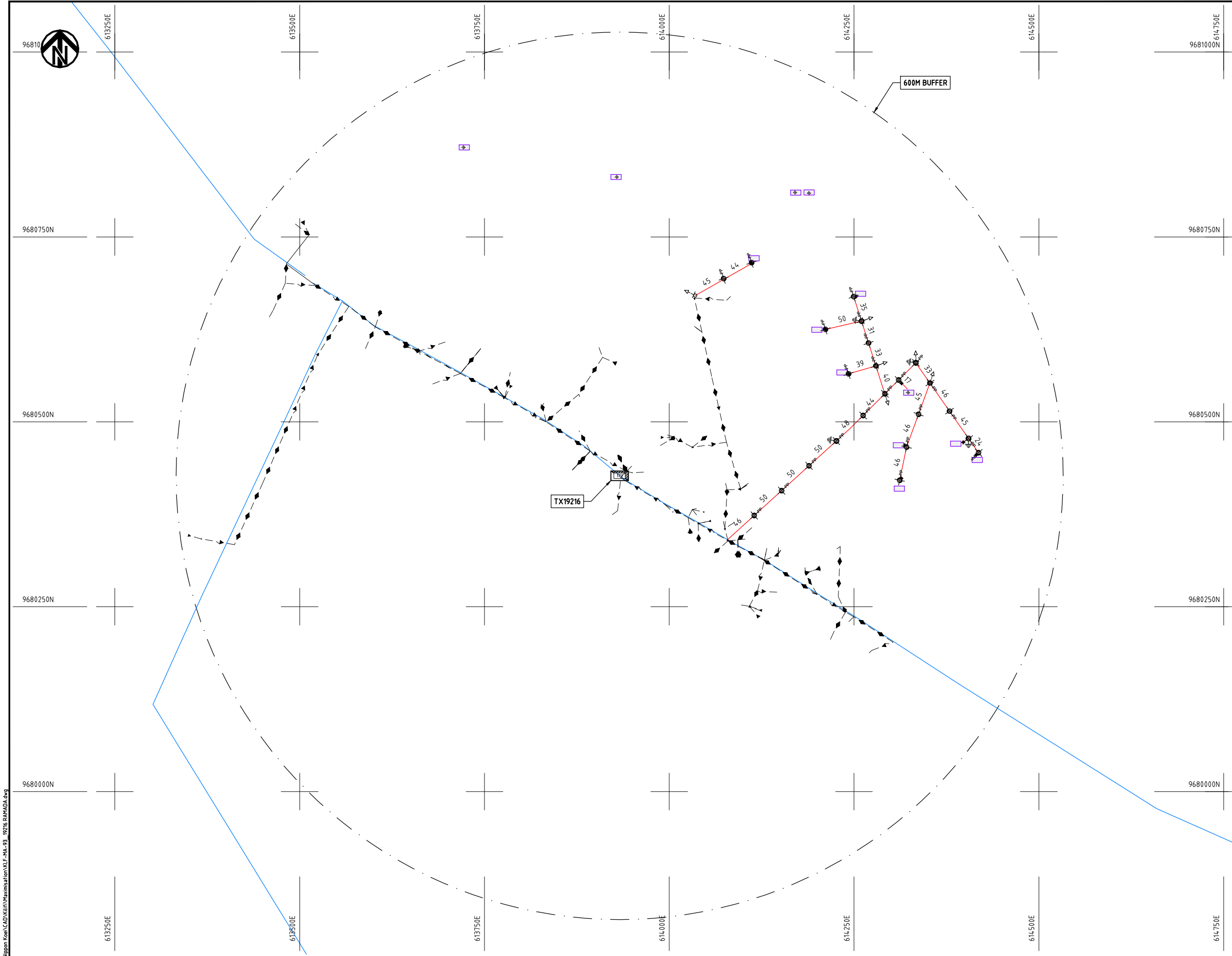
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - PROPOSED 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - PP WOODEN ELECTRIC POLES
 - CP CONCRETE ELECTRIC POLES 12M
 - CP CONCRETE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



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PROJECT:	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 122441 MAXIMISATION		KLF-MA-92	CHECKED BY	S.MAETA
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA				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

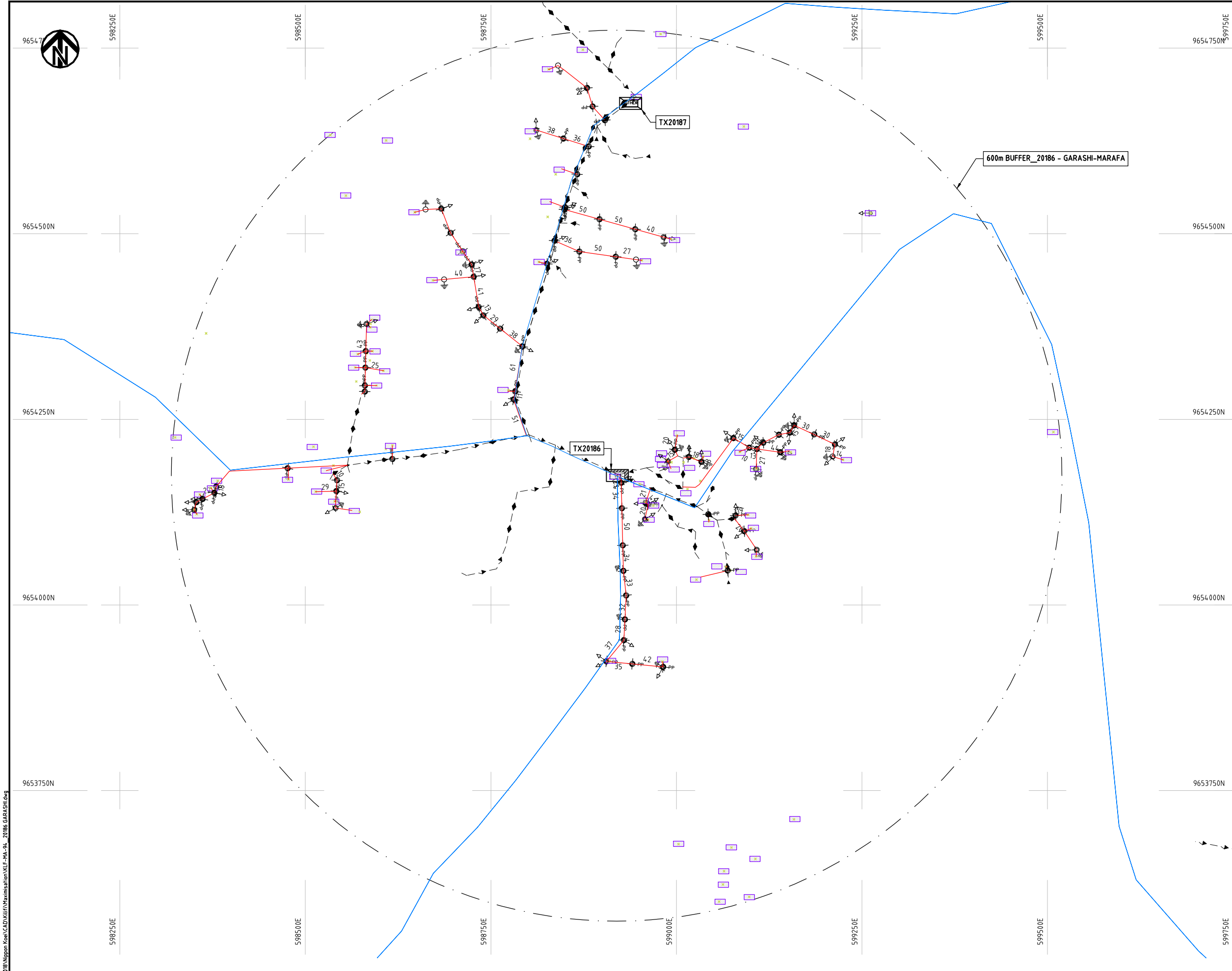
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH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

SCALE 1: 5000 (A3)

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-93_19216 RAMADA.dwg

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	KLF-MA-93	CHECKED BY	S.MAETA
	SCHEME :	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE :	19216 RAMADA		DATE	10th SEP 2018

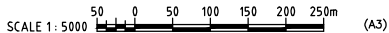




- NOTES:**
- 1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 - 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 - 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 - 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 - 5. POLES NOT SHOWN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

LEGEND

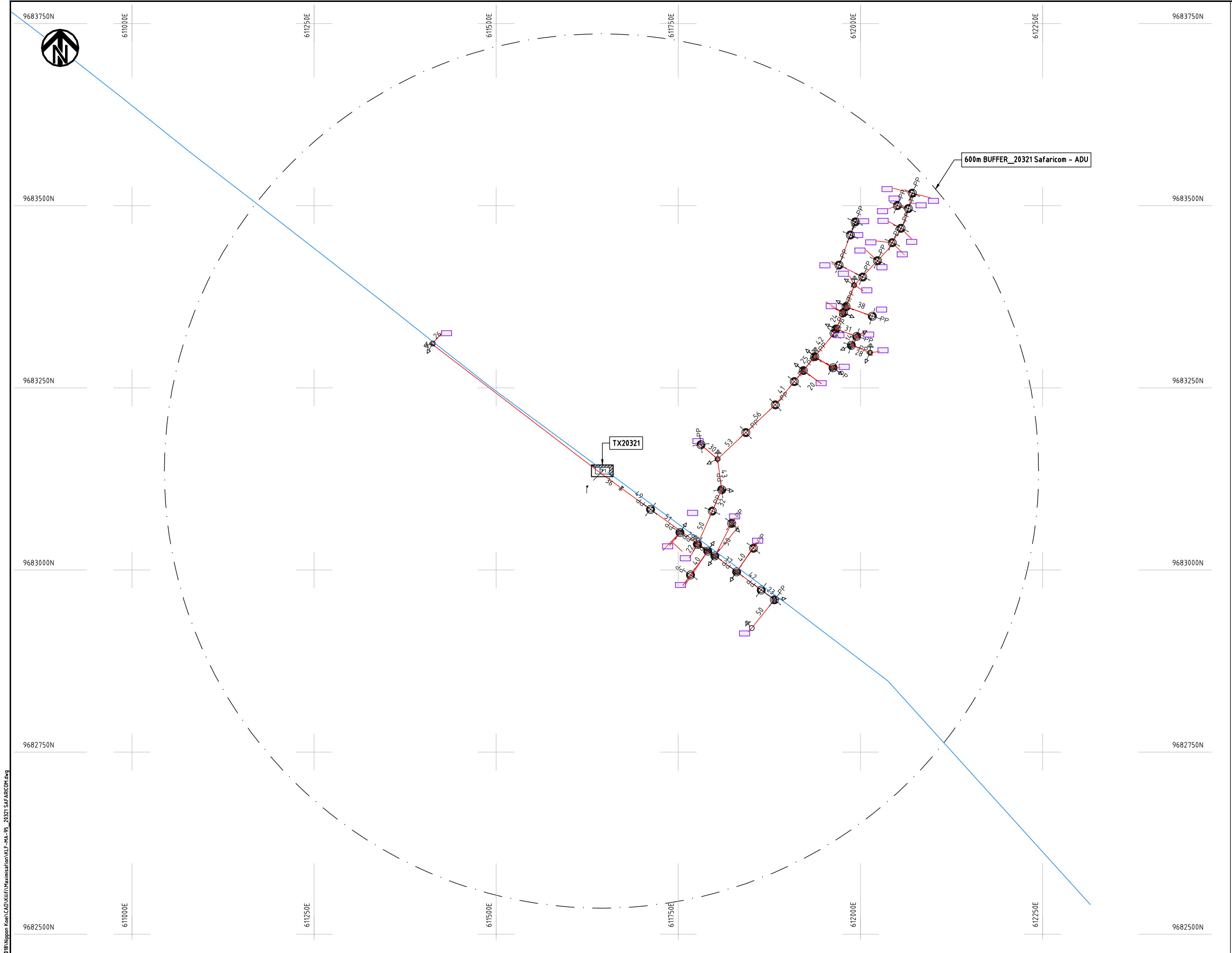
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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



Cad File No. D:\Frank-Proj 2018\Nippon Koei\Kilifi\Maximisation\KLF-MA-94_20186 GARASHI.dwg

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		KLF-MA-94	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 20186-GARASHI			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\Kilifi\Maximisation\KLF-MA-95_20321 SAFARICOM.dwg

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	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



569500E

569750E

570000E

570250E

570750E

9573000N

9572750N

9572500N

9572250N

9572000N

569500E

569750E

570000E

570250E

570500E

570750E

9573000N

9572750N

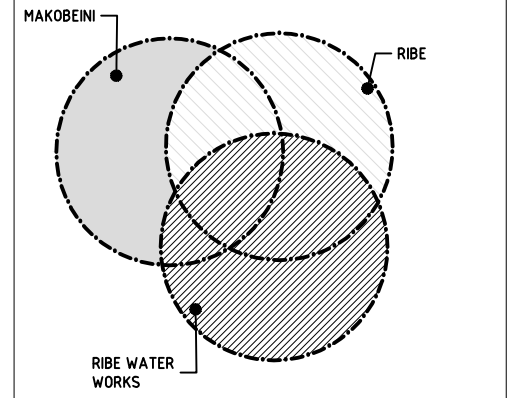
9572500N

9572250N

9572000N

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

SCALE 1:5000 50 0 50 100 150 200 250m (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: 20044-MAKOBENI

DRAW. NO.

KLF-MA-97

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018

 NIPPON KOEI CO., LTD



569500E

569750E

570000E

570250E

570500E

570750E

9575000N

9574750N

9574500N

9574250N

9574000N

569500E

569750E

570000E

570250E

570500E

570750E

9575000N

9574750N

9574500N

9574250N

9574000N

TX07284

OTHER

600M BUFFER

TX07021

OTHER

TX07009

OTHER

TX20727

OTHER

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)

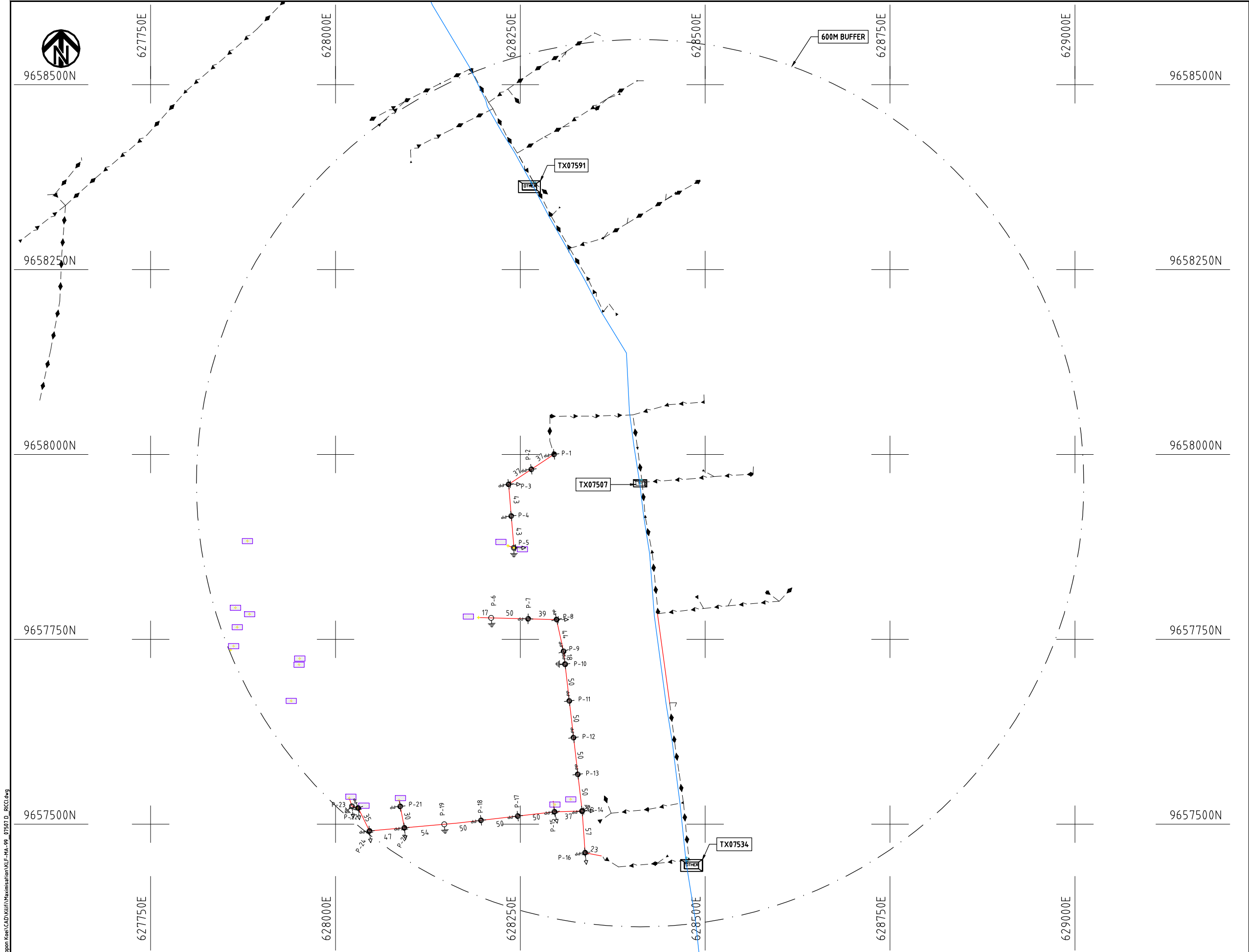
PROJECT:
**THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA**

DRAWING TITLE
**COUNTY: KILIFI
SCHEME: MAXIMIZATION
PROJECT SITE: 07009-BONDORA**

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-98	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.

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: 07507 D_RICCI

DRAW. NO.

KLF-MA-99

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

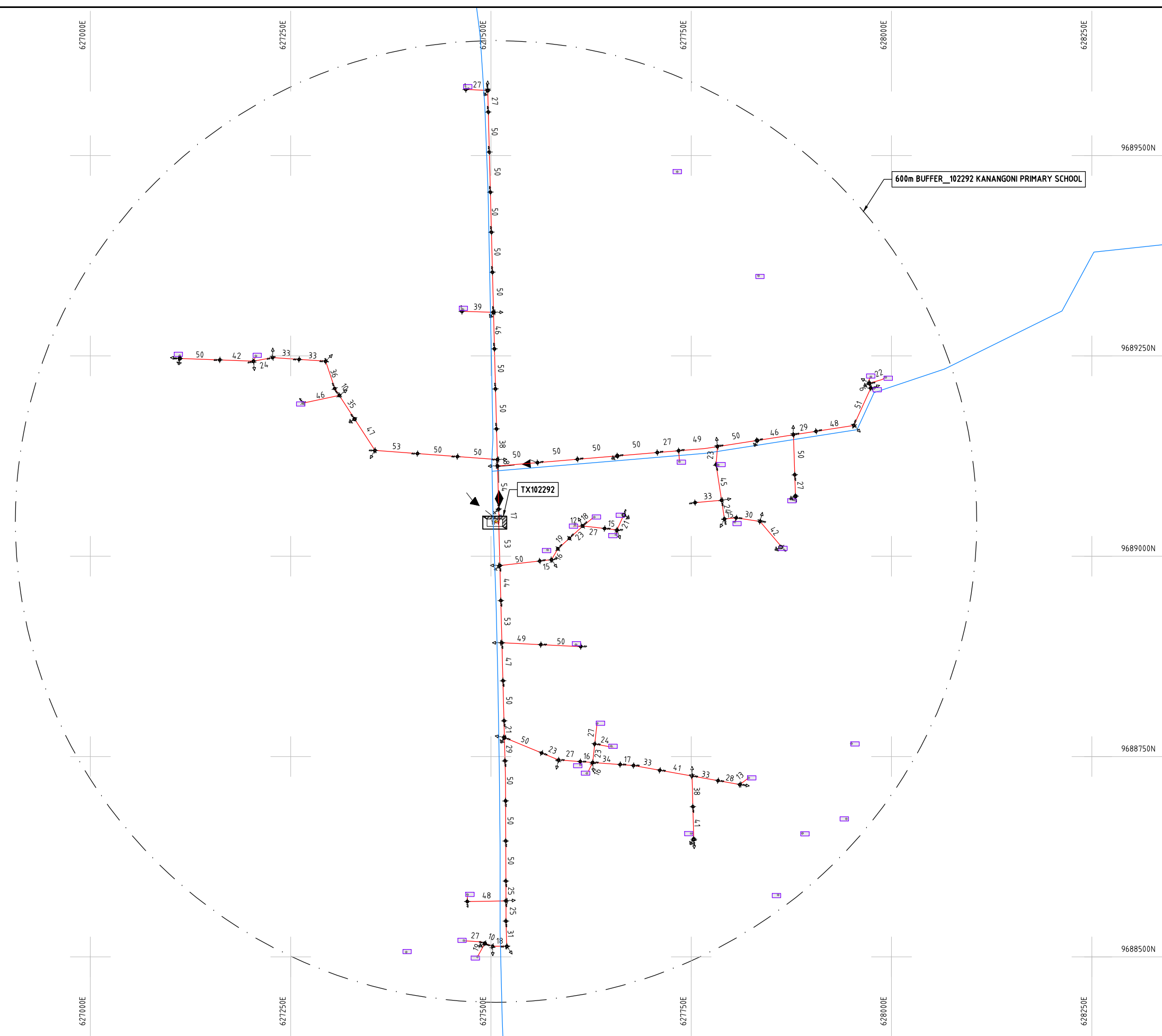
Y.TANAKA

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

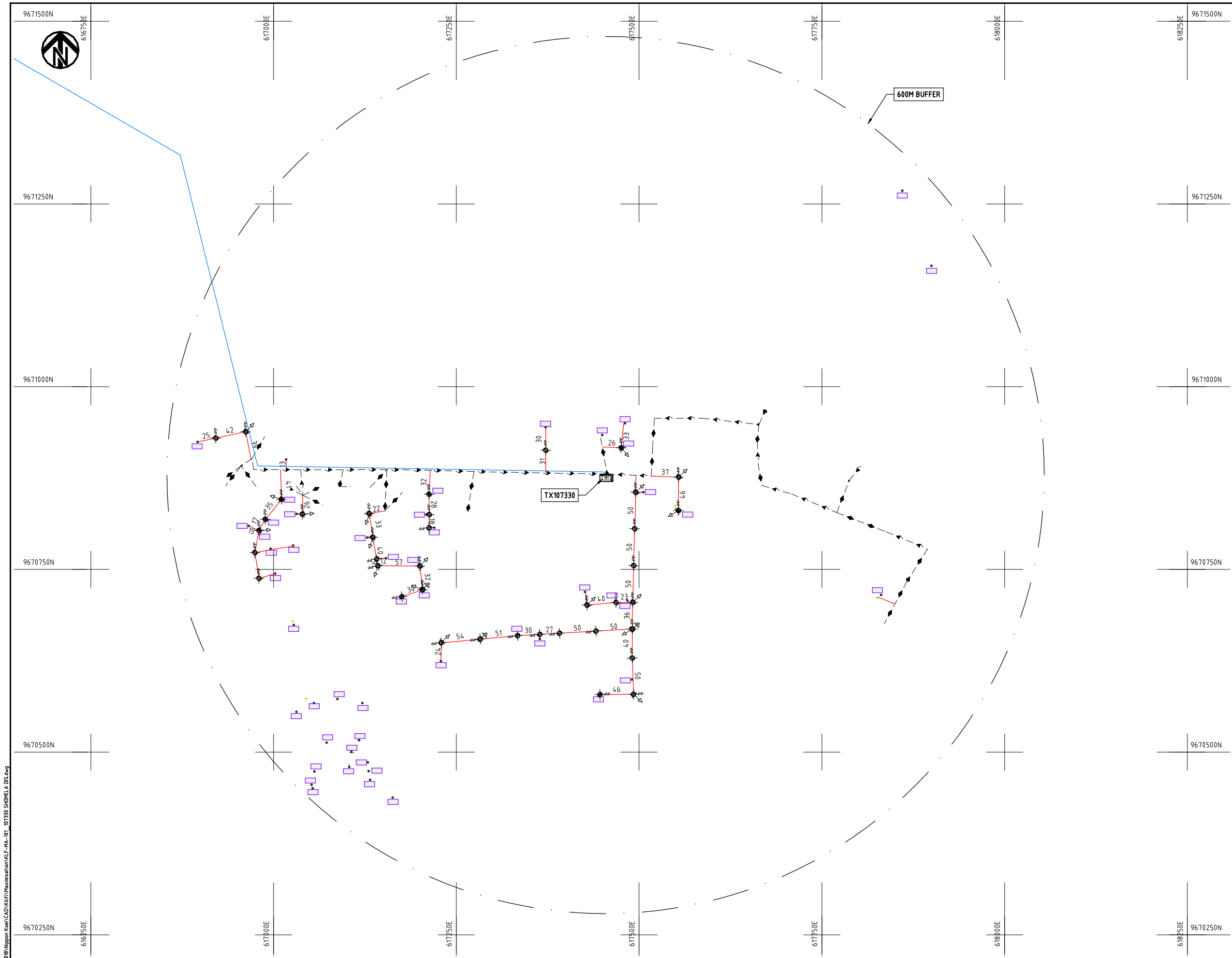
	HOUSEHOLDS/ BUILDINGS
	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	OTHER EXISTING TRANSFORMER
	WOODEN ELECTRIC POLES
	CONCRETE ELECTRIC POLES
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING
	STAY

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

PROJECT:	DRAWING TITLE			DRAW. NO.		PREPARED BY		A.AKBAR
						CHECKED BY		S.MAETA
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 102292 KANANGONI			KLF-MA-100		APPROVED BY		Y.TANAKA
						DATE		10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-101_107330 SHOMELA DIS.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
- 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: 107330 SHOMELA DIS

DRAW. NO.

KLF-MA-101

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



9671000N

612750E

613000E

613250E

613500E

613750E

614000E

9671000N

9670750N

9670750N

9670500N

9670500N

9670250N

9670250N

9670000N

9670000N

612750E

613000E

613250E

613500E

613750E

614000E

600M BUFFER

TX107329

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: 107329 KABIBUNI PRY

DRAW. NO.

KLF-MA-102

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

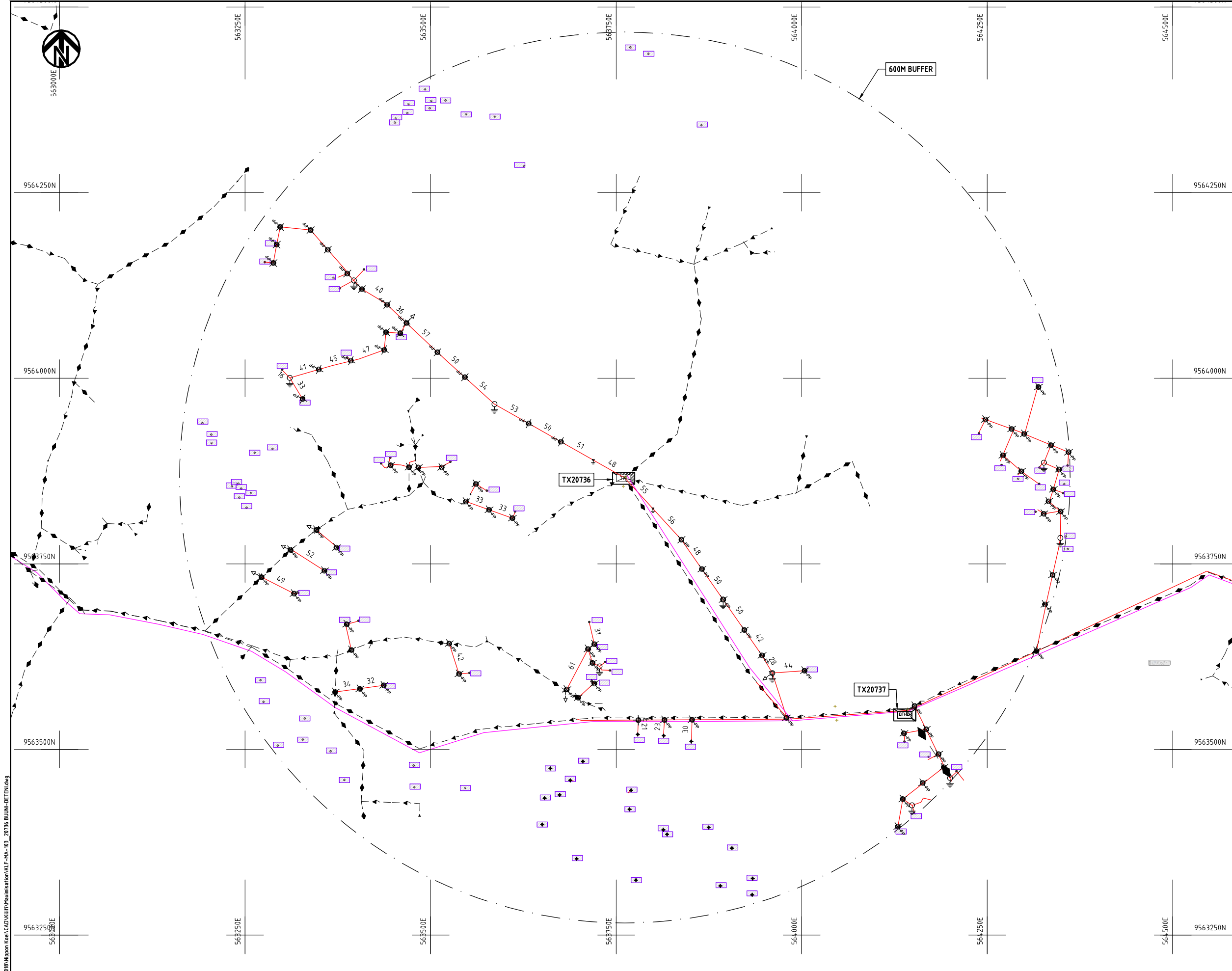
Y.TANAKA

DATE

10th SEP 2018



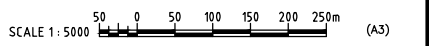
NIPPON KOEI CO., LTD



- 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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP 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: 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 PROJECT SITE: 20736-BUUNI-DETENI		KLF-MA-103	CHECKED BY APPROVED BY DATE	S.MAETA Y.TANAKA 10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-104_19930_B0FU.dwg



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

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

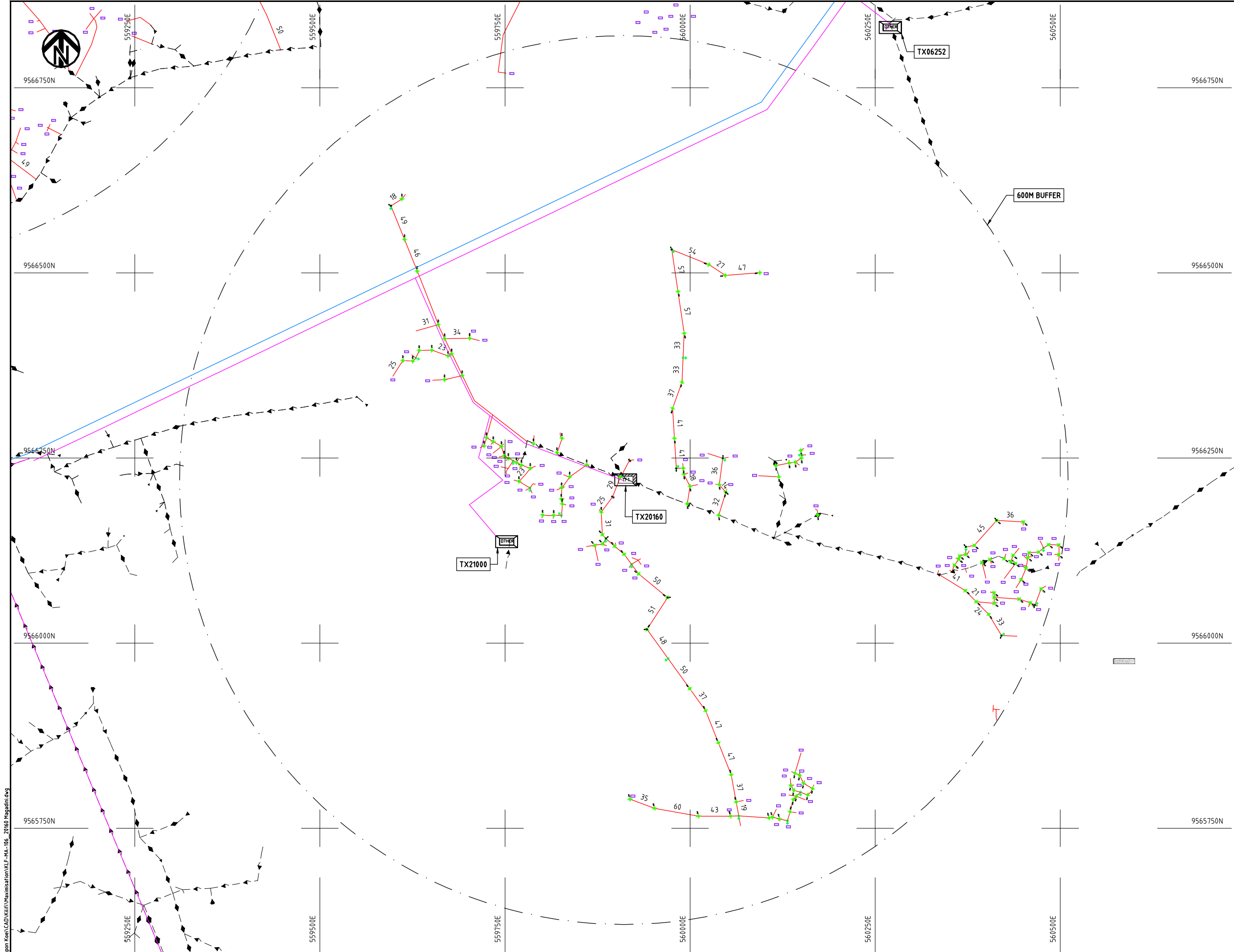
Y.TANAKA

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

SCALE 1:5000 (A3)

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-106_20160 Magadini.dwg

	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 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

560000E

561250E

561500E

561750E

9562000N

9561750N

9561500N

9561250N

9561000N

560500E

560750E

561000E

561250E

561500E

561750E

600M BUFFER

TX06241

TX076188

TX07648

06253 -MAZERAS
POULTRY FARM

TX06383

TX06285

TX06273

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: 06253-MAZERAS

DRAW. NO.

KLF-MA-107

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

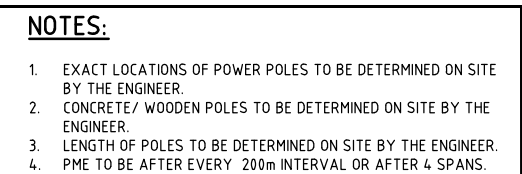
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



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

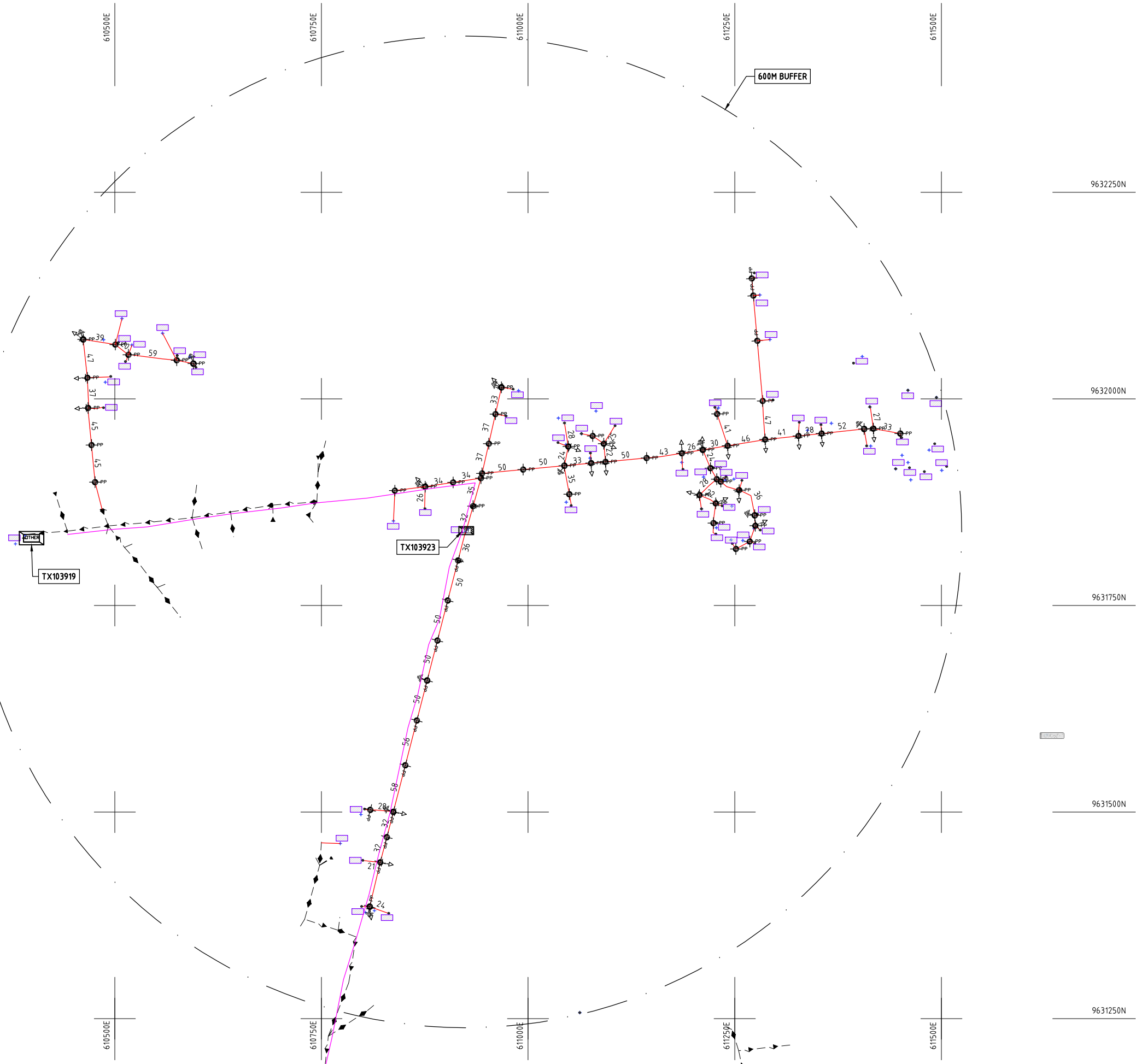
LV-EARTH

PME -PROTECTIVE MULTIPLE EARTHING

STAY



Oct 31, 2018 - 2:43pm



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: 103923-DABASO

DRAW. NO.

KLF-MA-109

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD

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



605750E

606000E

606250E

606500E

606750E

607000E

607250E

9626000N

9626000N

9625750N

9625750N

9625500N

9625500N

9625250N

9625250N

9625000N

9625000N

605750E

606000E

606250E

606500E

606750E

607000E

607250E

600M BUFFER

TX20957

48

51

61

29

31

31

42

42

55

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: 20957-CHIPANDE PRI SCHOOL

DRAW. NO.

KLF-MA-110

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.

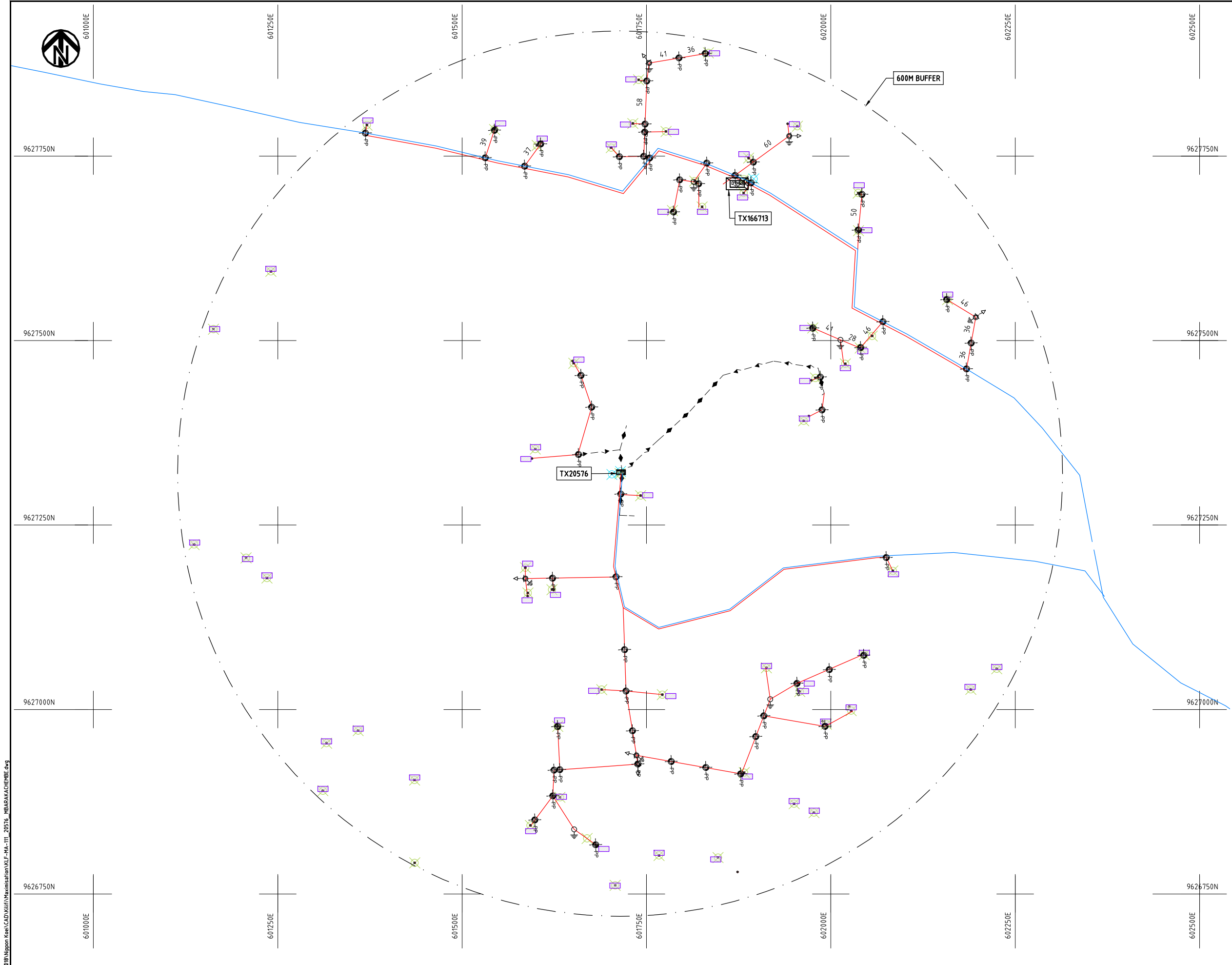
LEGEND

- 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

SCALE 1:5000 (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.
 - 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

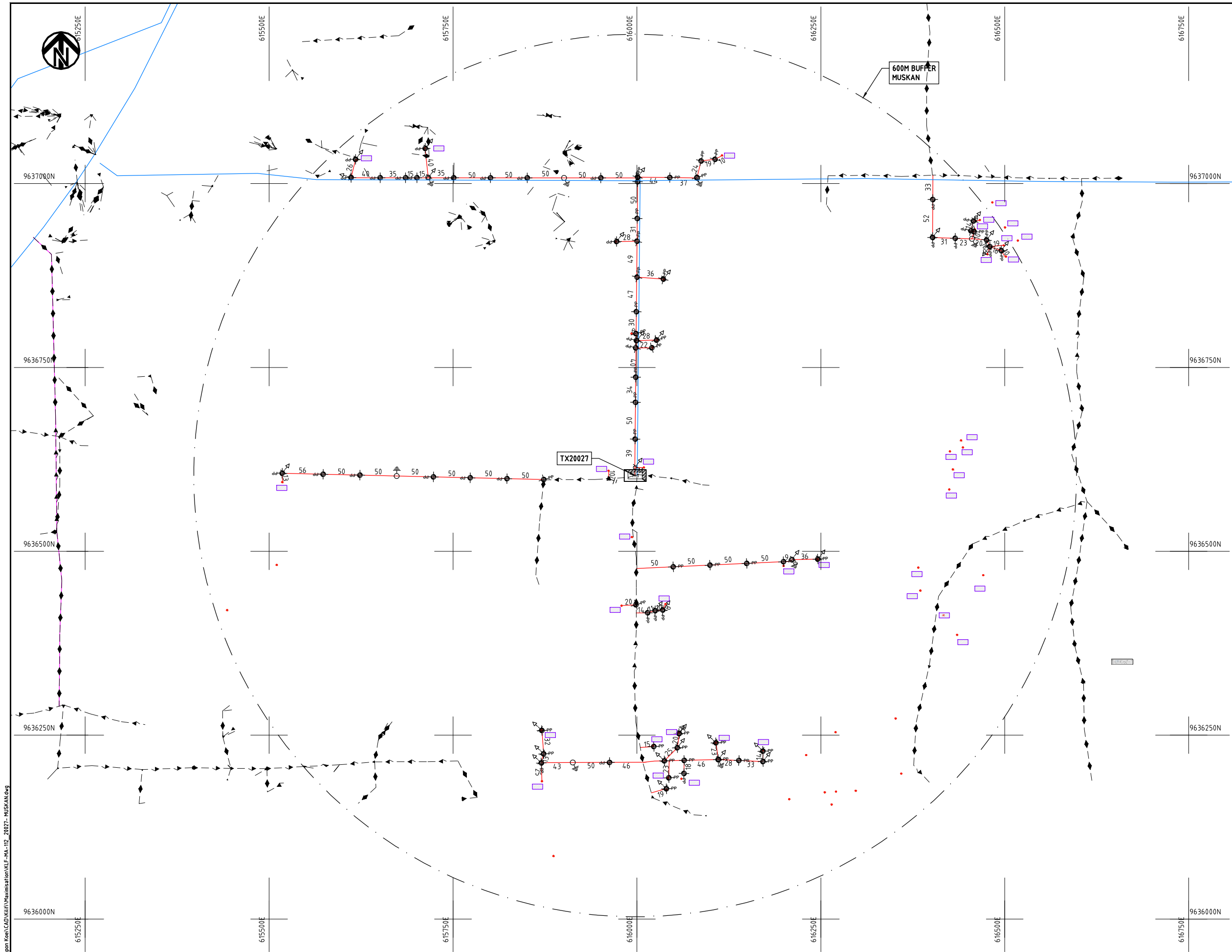


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PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 20576-MBARAKACHEMBE		KLF-MA-111	CHECKED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



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-112_20027- MUSKAN.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

SCALE 1:5000 50 0 50 100 150 200 250m (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: 20027 MUSKAN

DRAW. NO.

KLF-MA-112

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

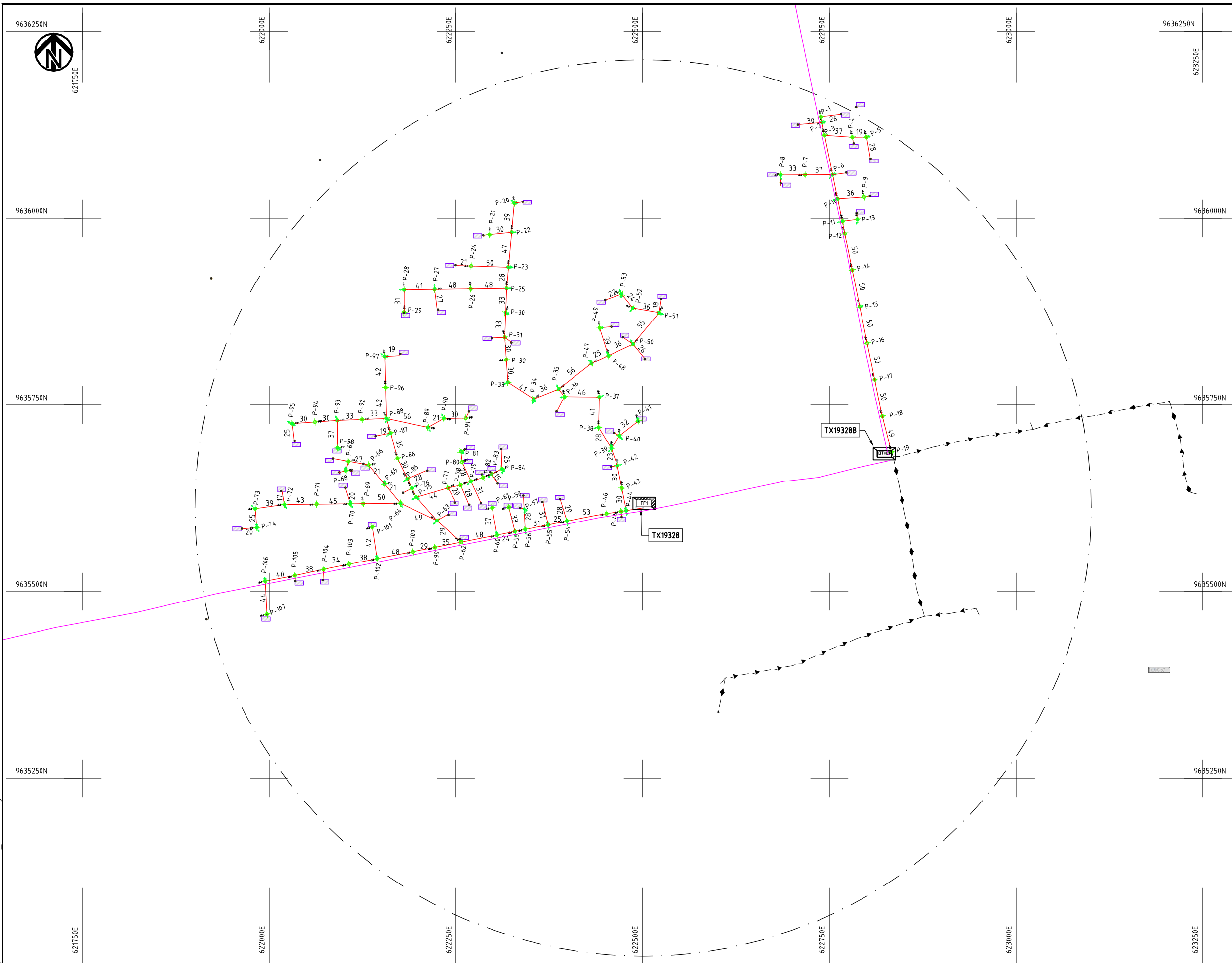
Y.TANAKA

DATE

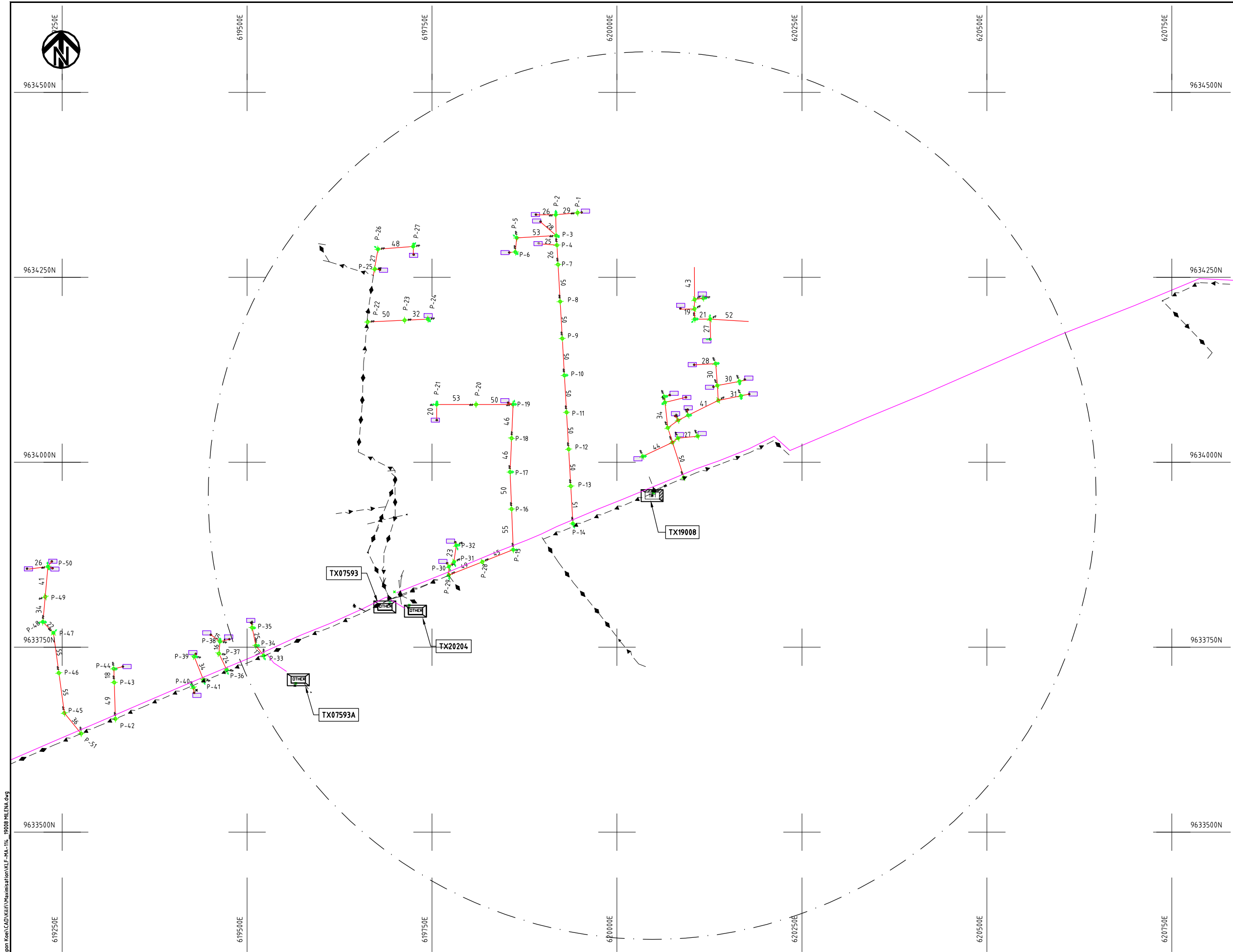
10th SEP 2018



NIPPON KOEI CO., LTD



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

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

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: 19008 - MELINA

DRAW. NO.

KLF-MA-114

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

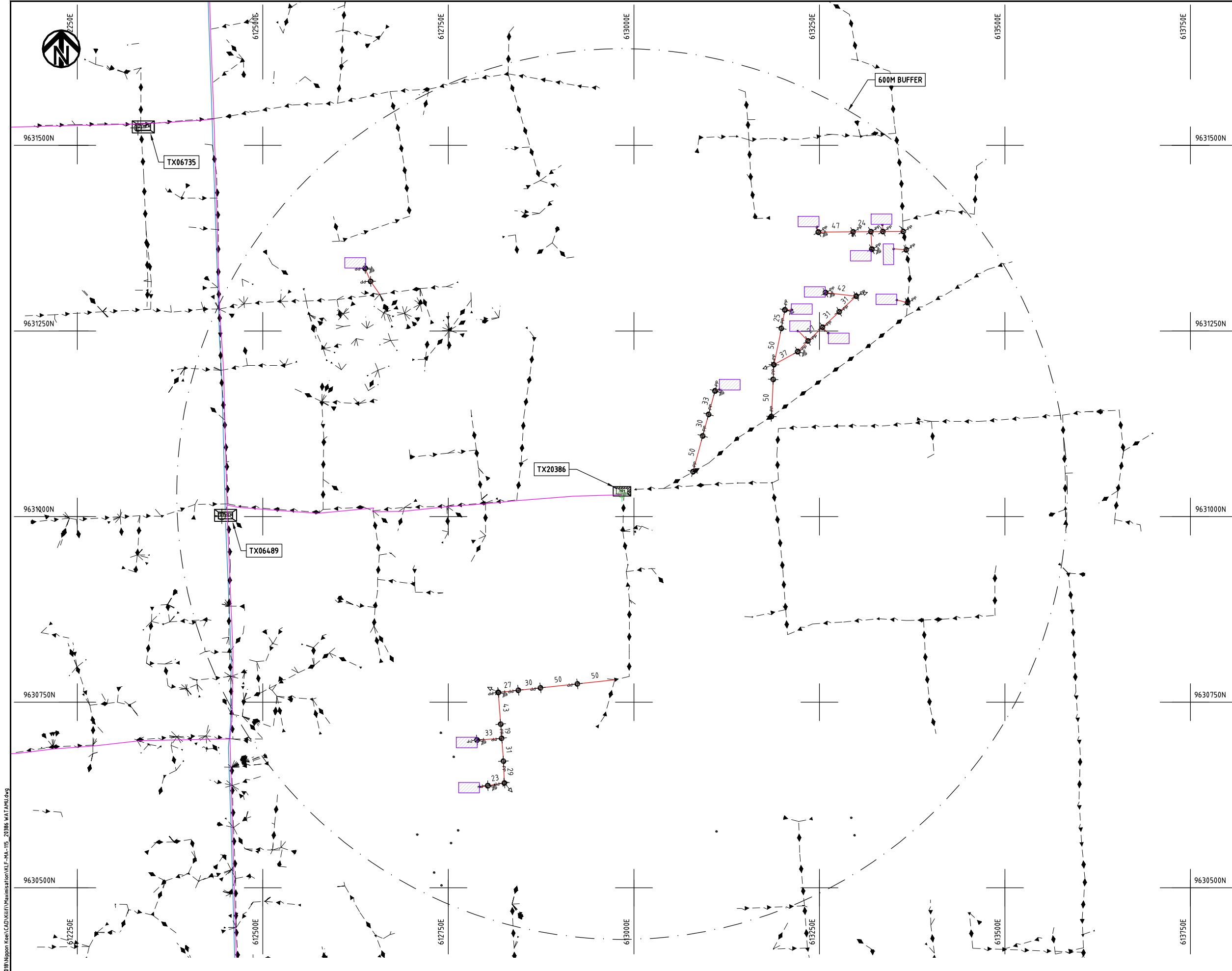
Y.TANAKA

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.

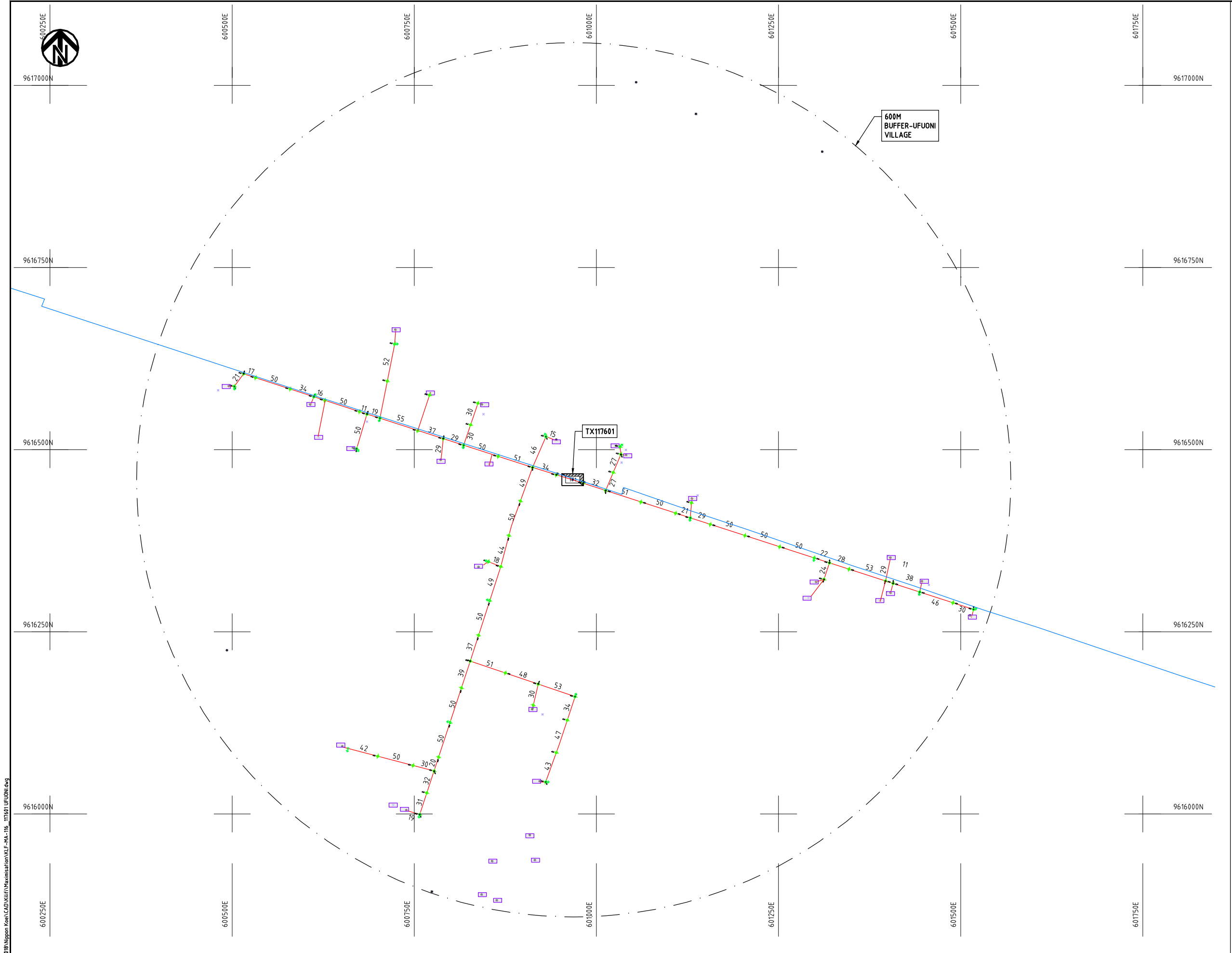
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - PP WOODEN ELECTRIC POLES
 - CP CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-115_20386_WATAMU.dwg

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	KLF-MA-115	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		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

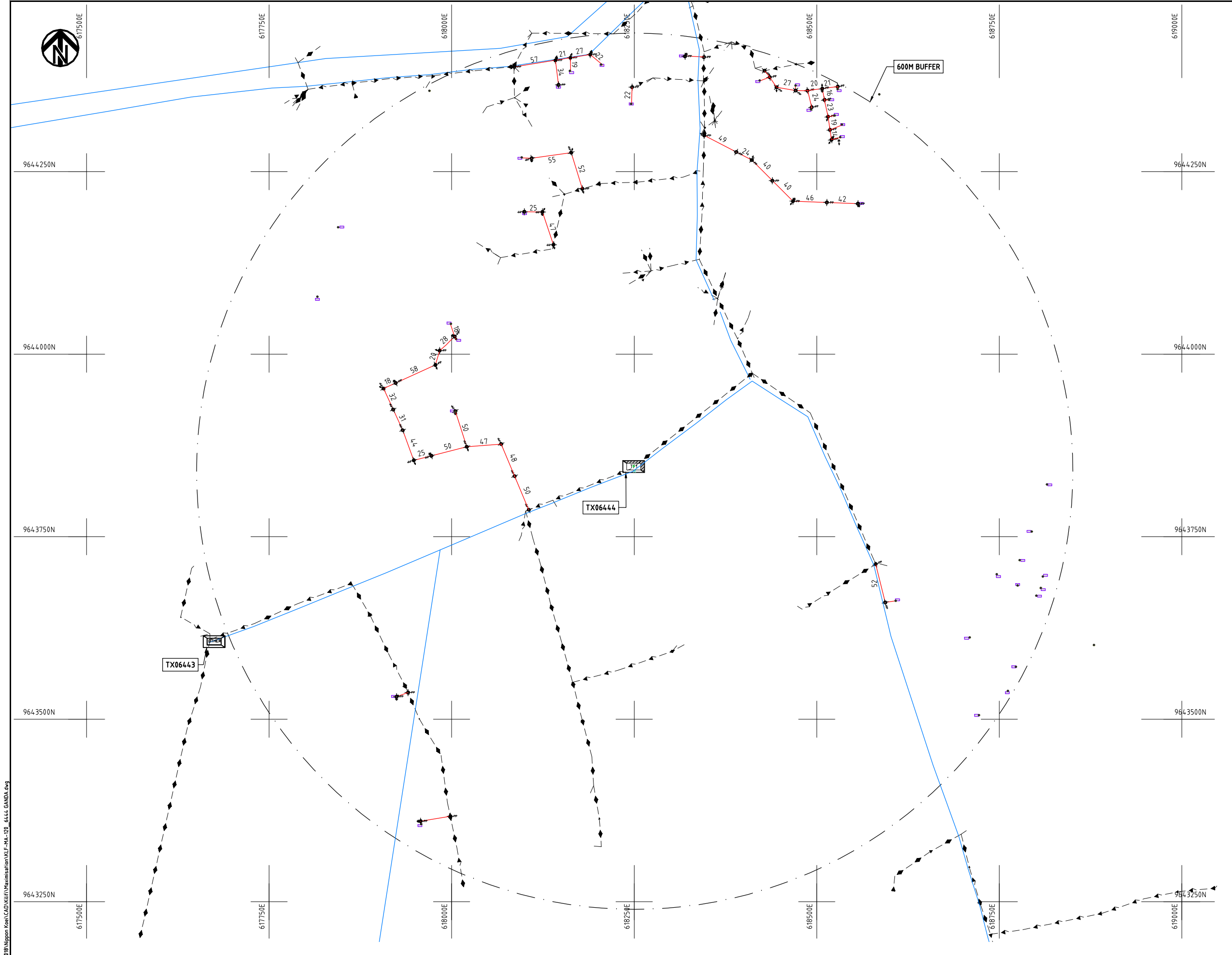


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PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	KILIFI	KLF-MA-116	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	117601 UFUONI		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

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: 06444-GANDA

DRAW. NO.

KLF-MA-120

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

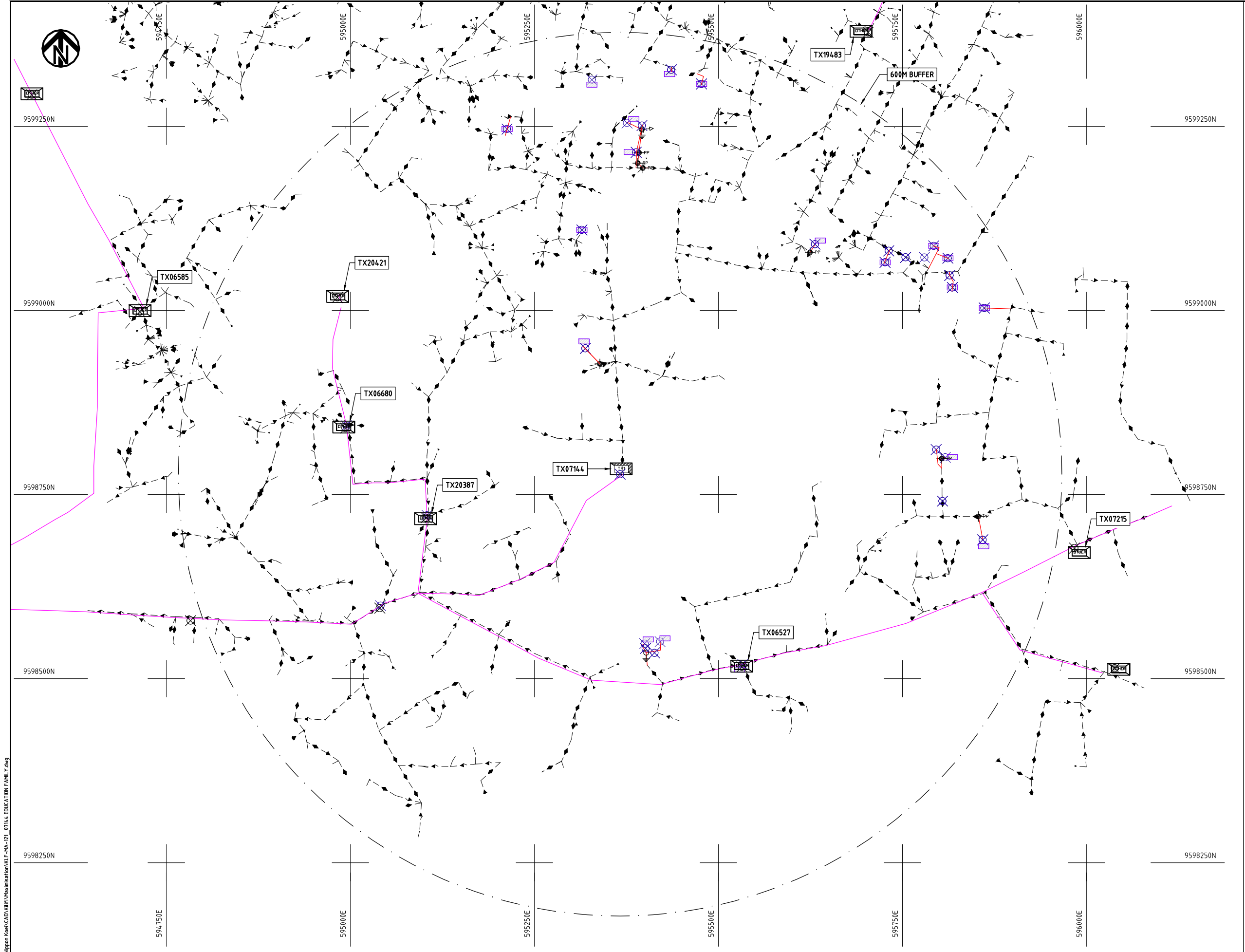
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-121_07144_EDUCATION FAMILY.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.

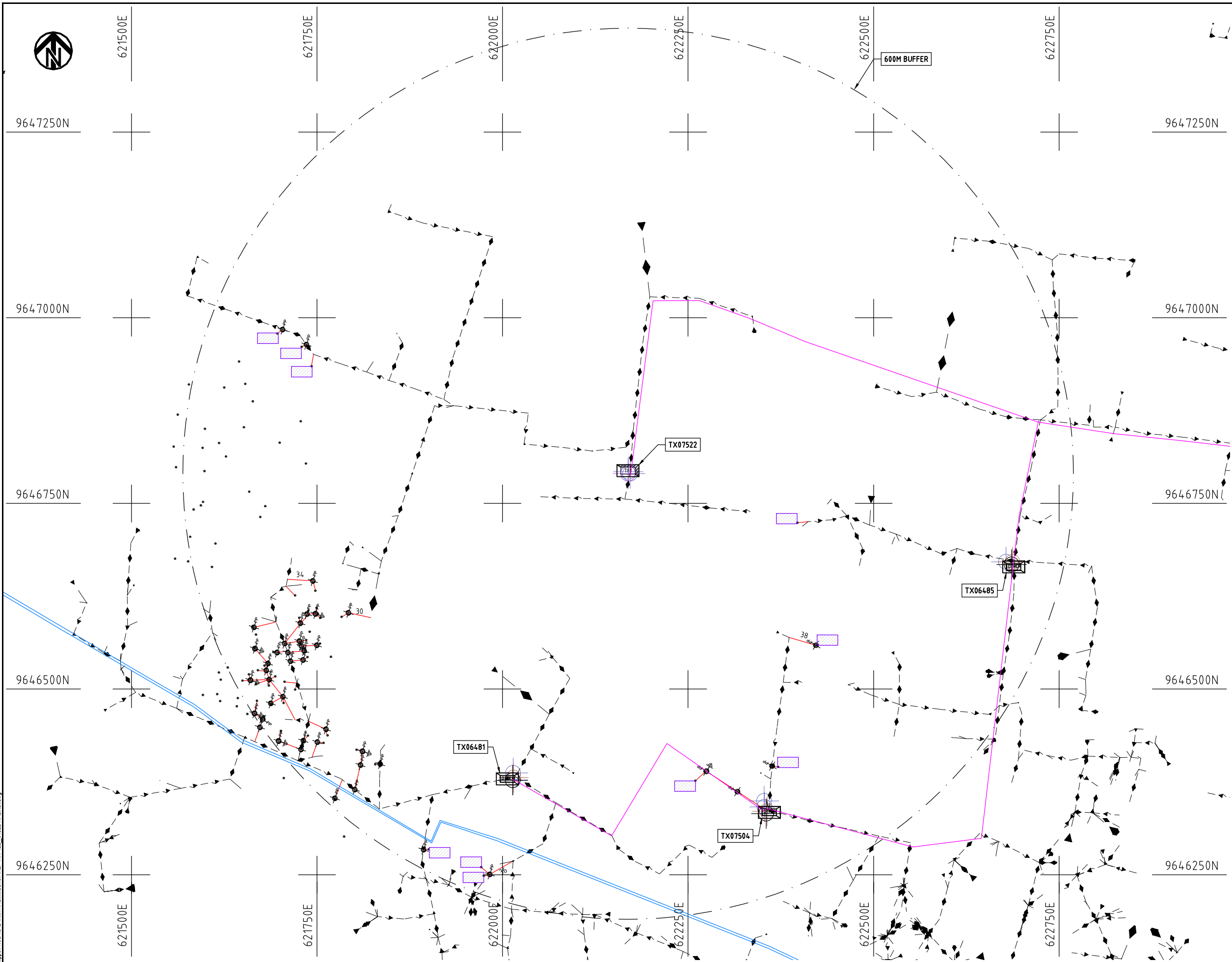
LEGEND

- 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



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	KLF-MA-121	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	07144 EDUCATION FAMILY		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)

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: 07522 MALINDI

DRAW. NO.

KLF-MA-122

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



9639250N

615500E

615750E

616000E

616250E

616500E

616750E

9639250N

9639000N

9639000N

9638750N

9638750N

9638500N

9638500N

9638250N

9638250N

615500E

615750E

616000E

616250E

616500E

616750E

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: 07691 MINISTRY

DRAW. NO.

KLF-MA-123

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

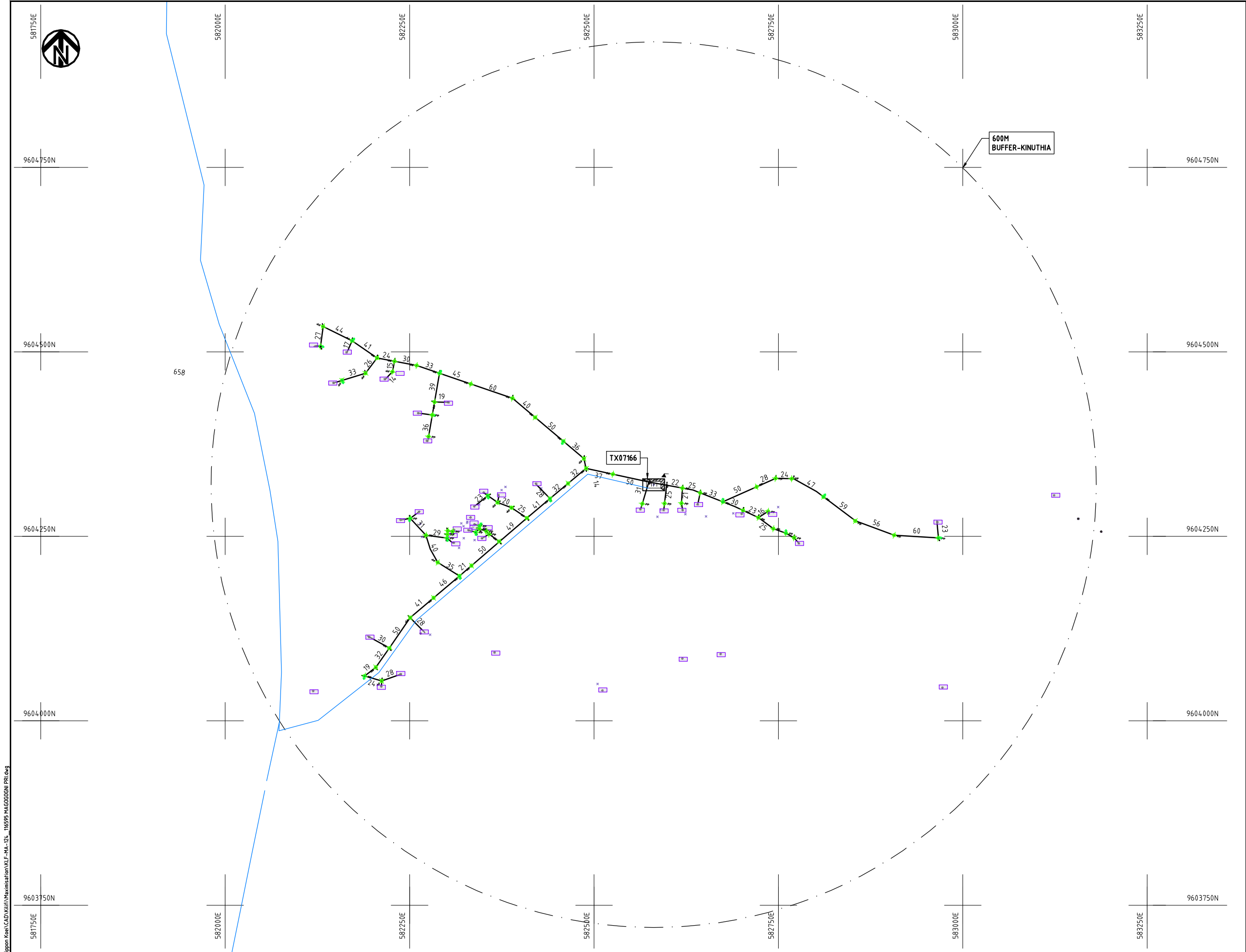
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

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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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP 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: 116595 MAGOGOGNI PRIMARY

DRAW. NO.

KLF-MA-124

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



577250E

577500E

577750E

578000E

578250E

578500E

578750E

9600750N

9600750N

9600500N

9600500N

9600250N

9600250N

9600000N

9600000N

9599750N

9599750N

577250E

577500E

577750E

578000E

578250E

578500E

578750E

600M BUFFER

TX116598

TF1

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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP 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: 116598 -116598

DRAW. NO.

KLF-MA-125

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD

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9635750N

9635500N

9635250N

9635000N

9634750N

610000E

610250E

610500E

610750E

611000E

611250E

610000E

610250E

610500E

610750E

611000E

611250E

600M BUFFER

TX064.77

9635750N

9635500N

9635250N

9635000N

9634750N

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: 06477-GEDE FOREST

DRAW. NO.

KLF-MA-126

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

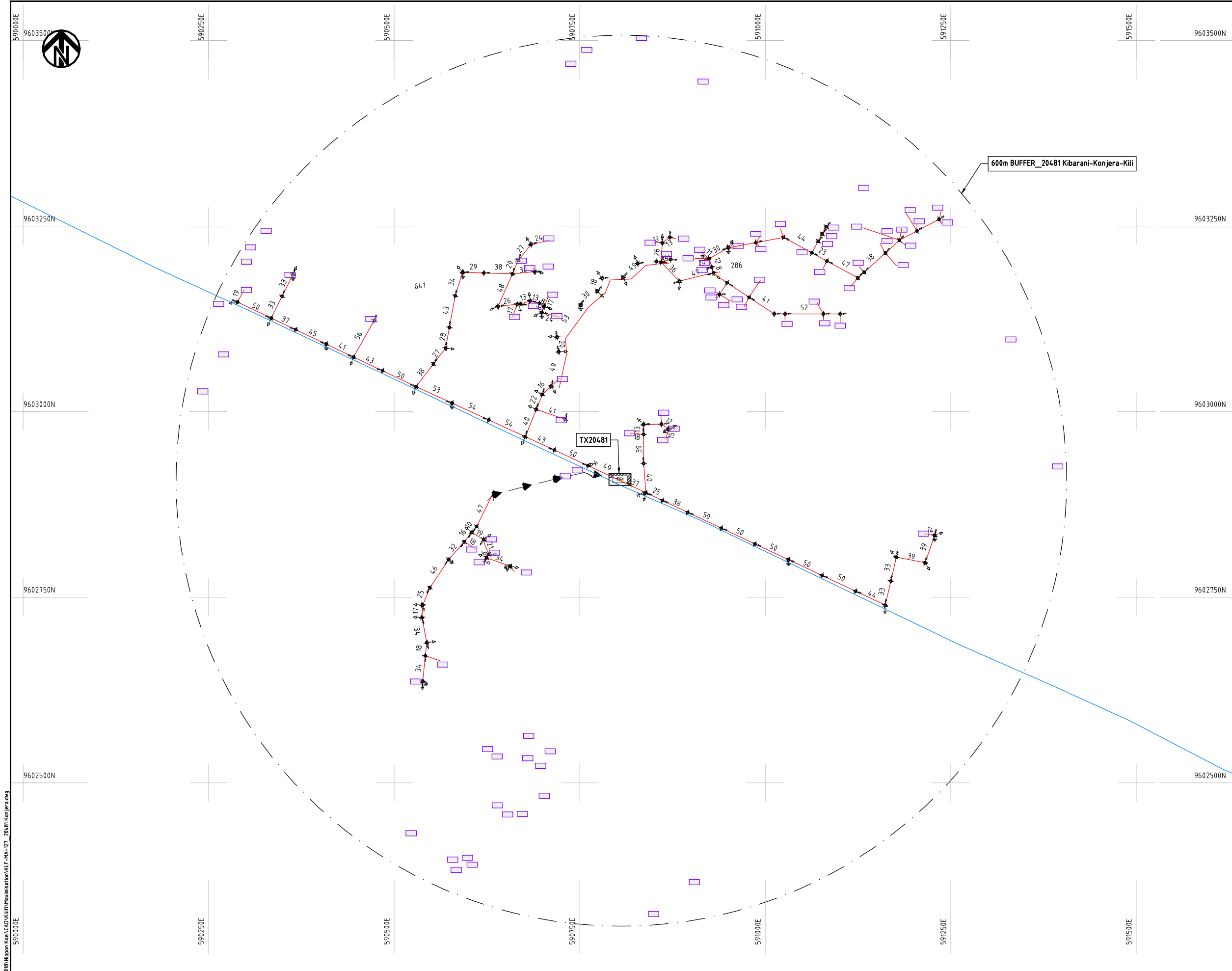
Y.TANAKA

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

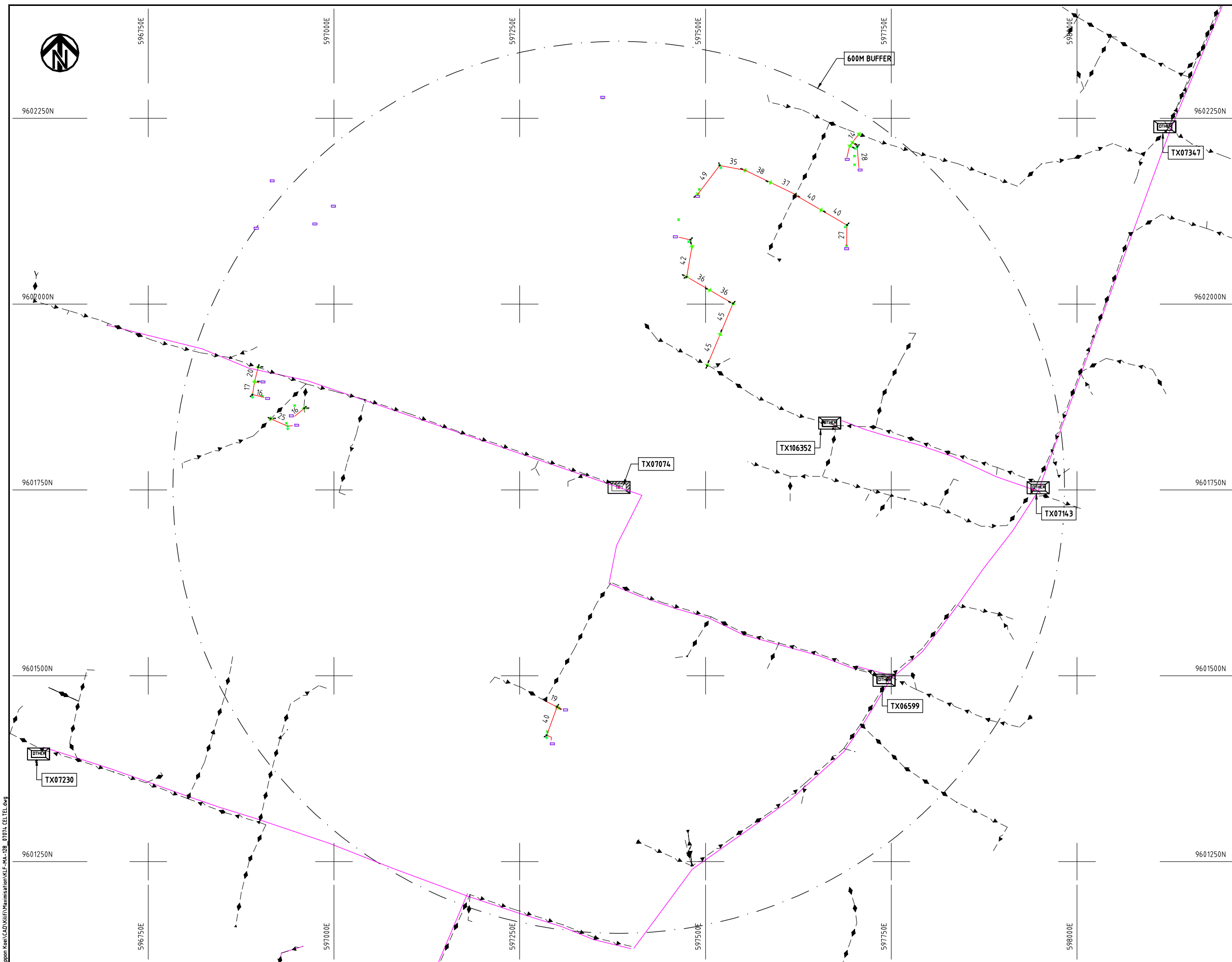
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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



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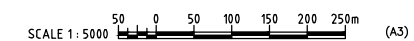
PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	KILIFI	KLF-MA-127	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	20481 KONJERA		DATE	10th SEP 2018



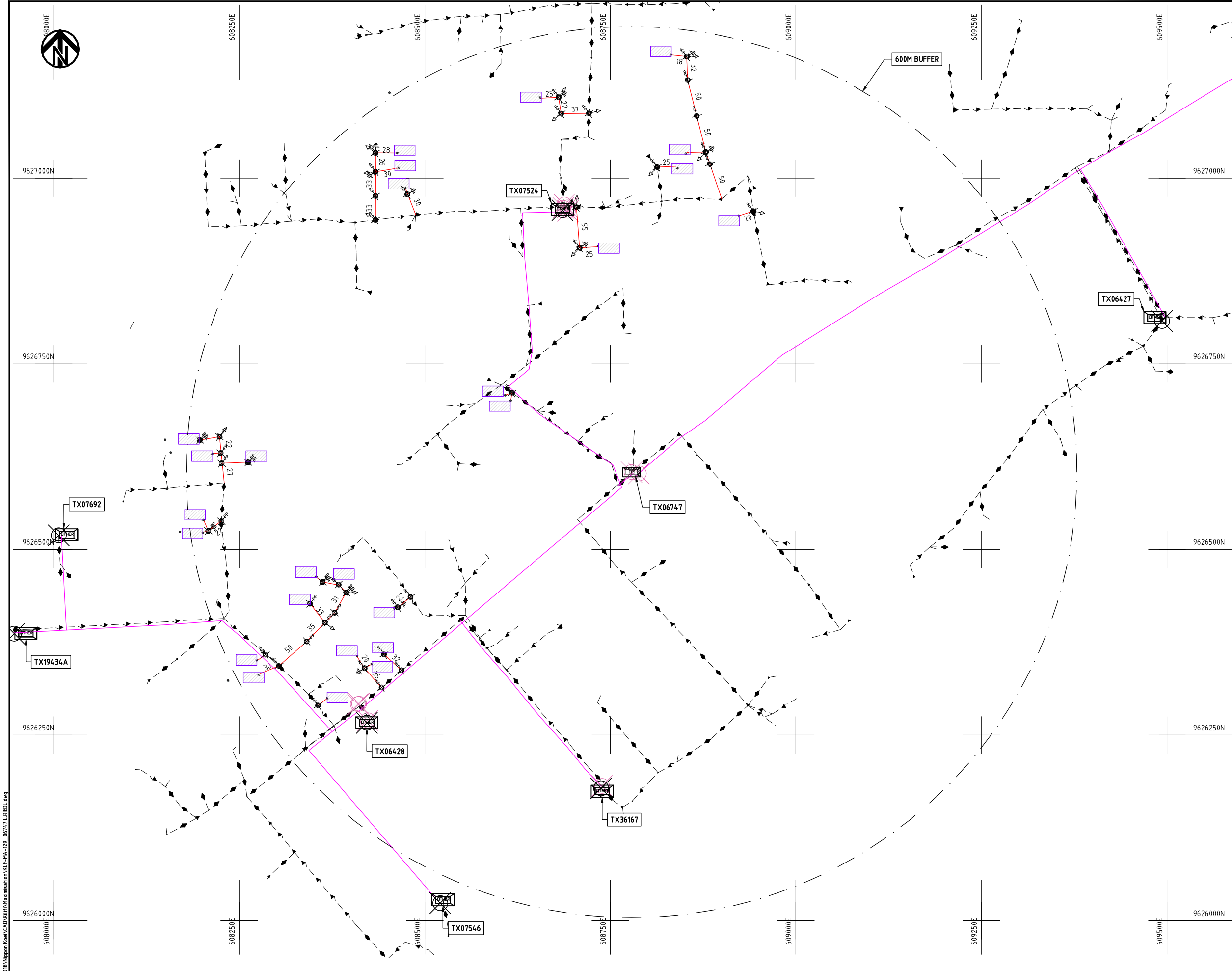


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LEGEND



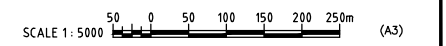
PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 07074-CELTEL		KLF-MA-128	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018



- 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

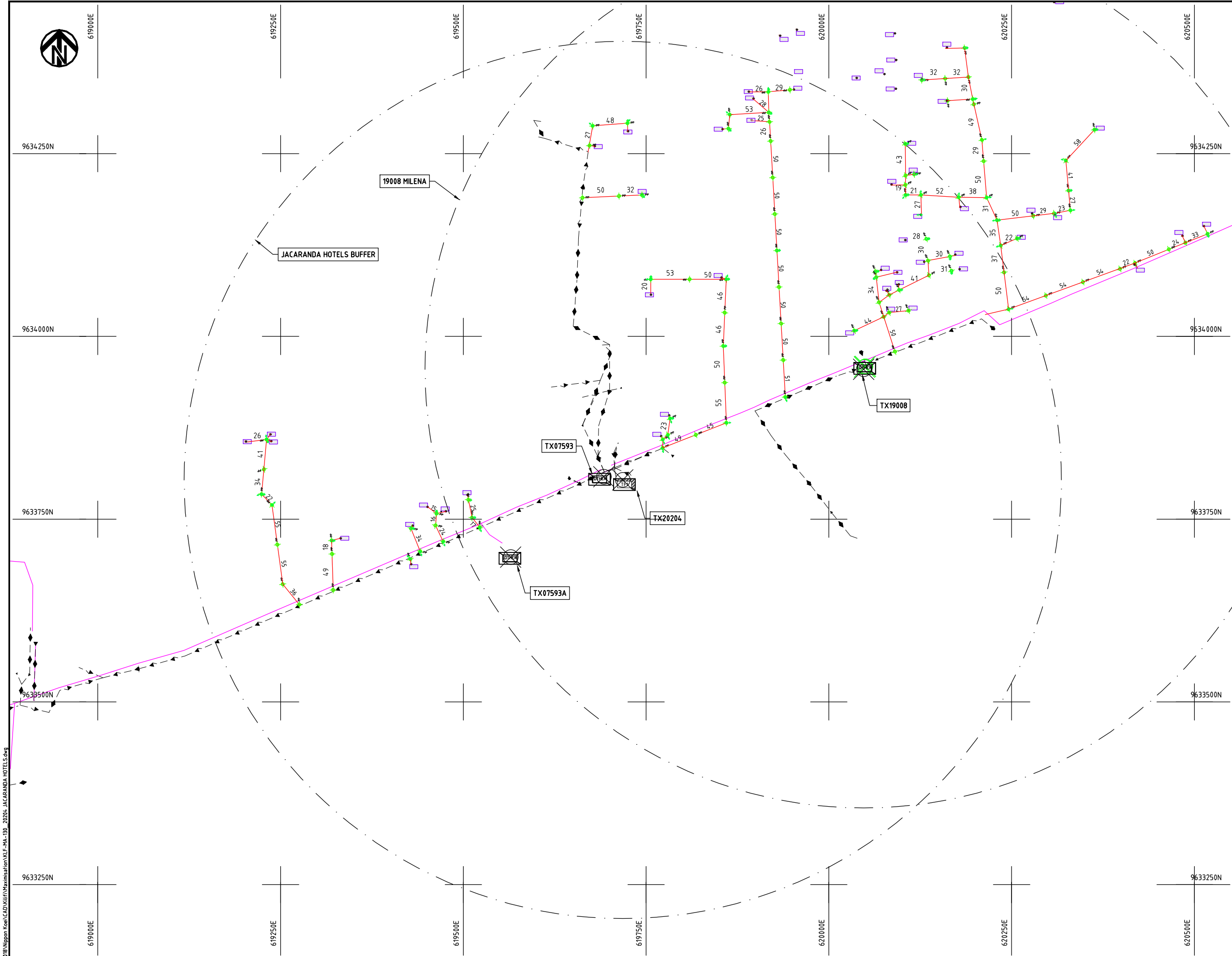
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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



Cad File No. D:\Frank-Proj 2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-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		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: 06747 - L. RIEDL		KLF-MA-129	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

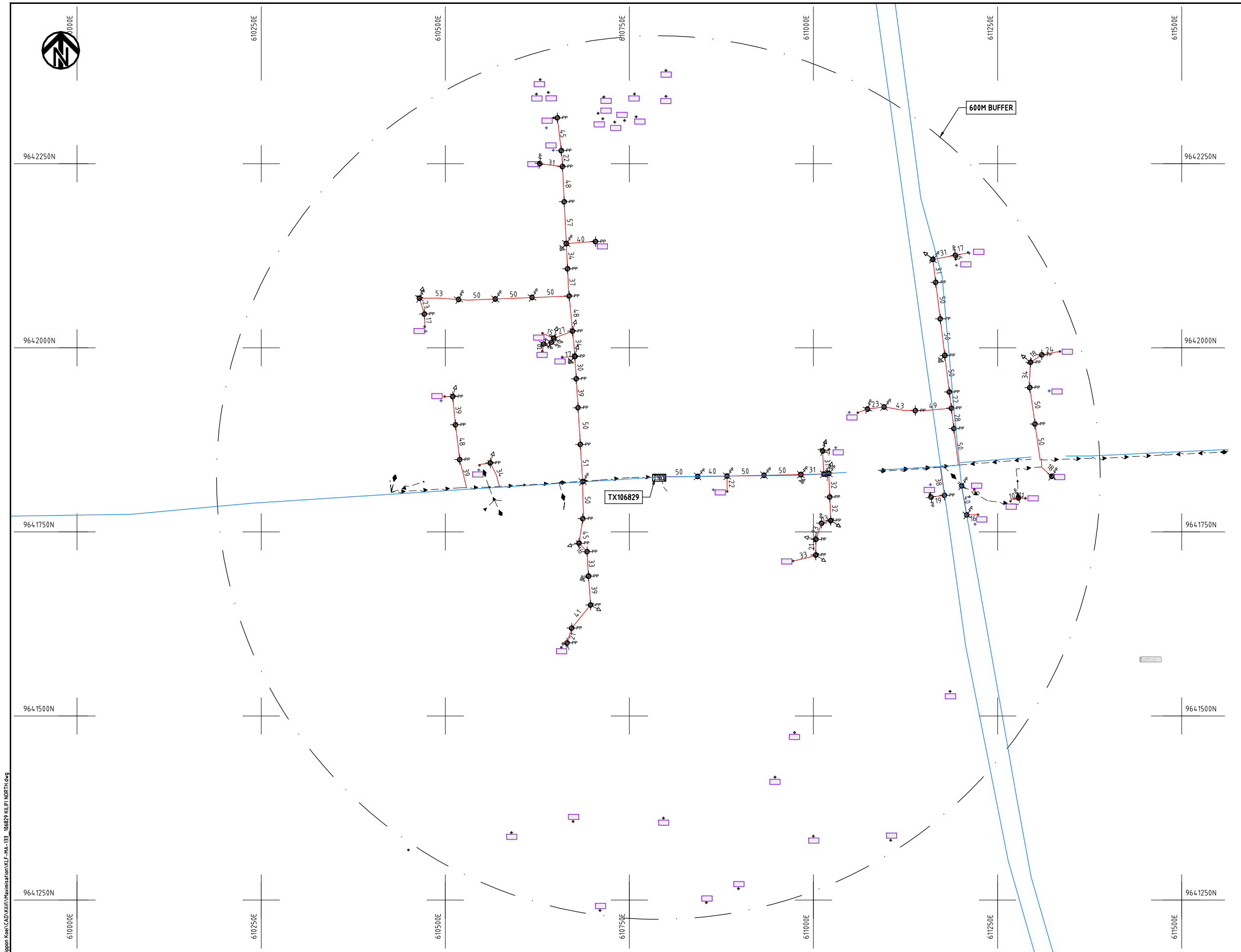
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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

SCALE 1: 5000 (A3)

Cad File No. D:\Frank-Proj 2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-130_20204- JACARANDA- HOTELS.dwg

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 PROJECT SITE: 20204-JACARANDA HOTELS		KLF-MA-130	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-133_106829 KILIFI NORTH.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

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: 106829 KILIFI NORTH

DRAW. NO.

KLF-MA-133

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

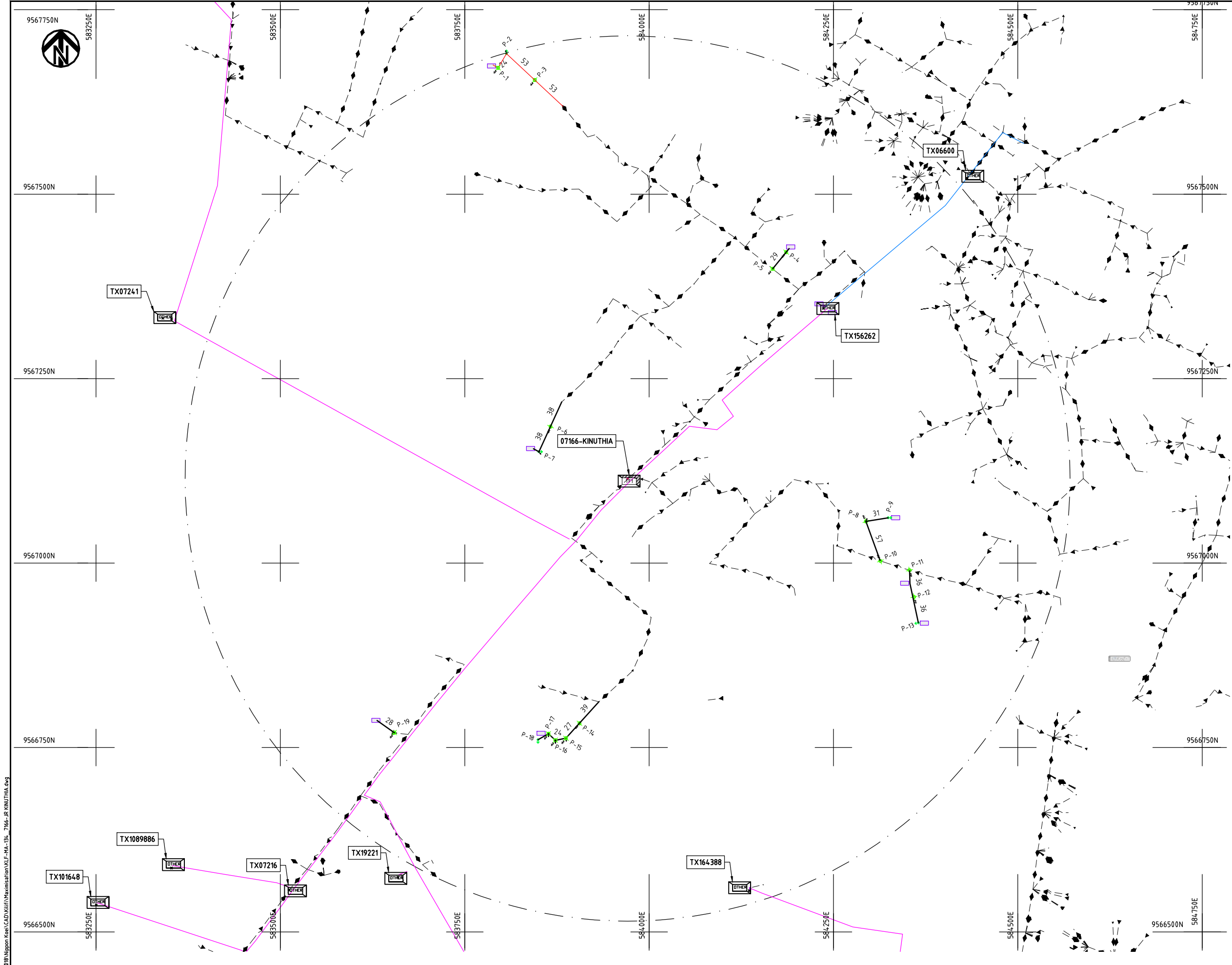
Y.TANAKA

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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

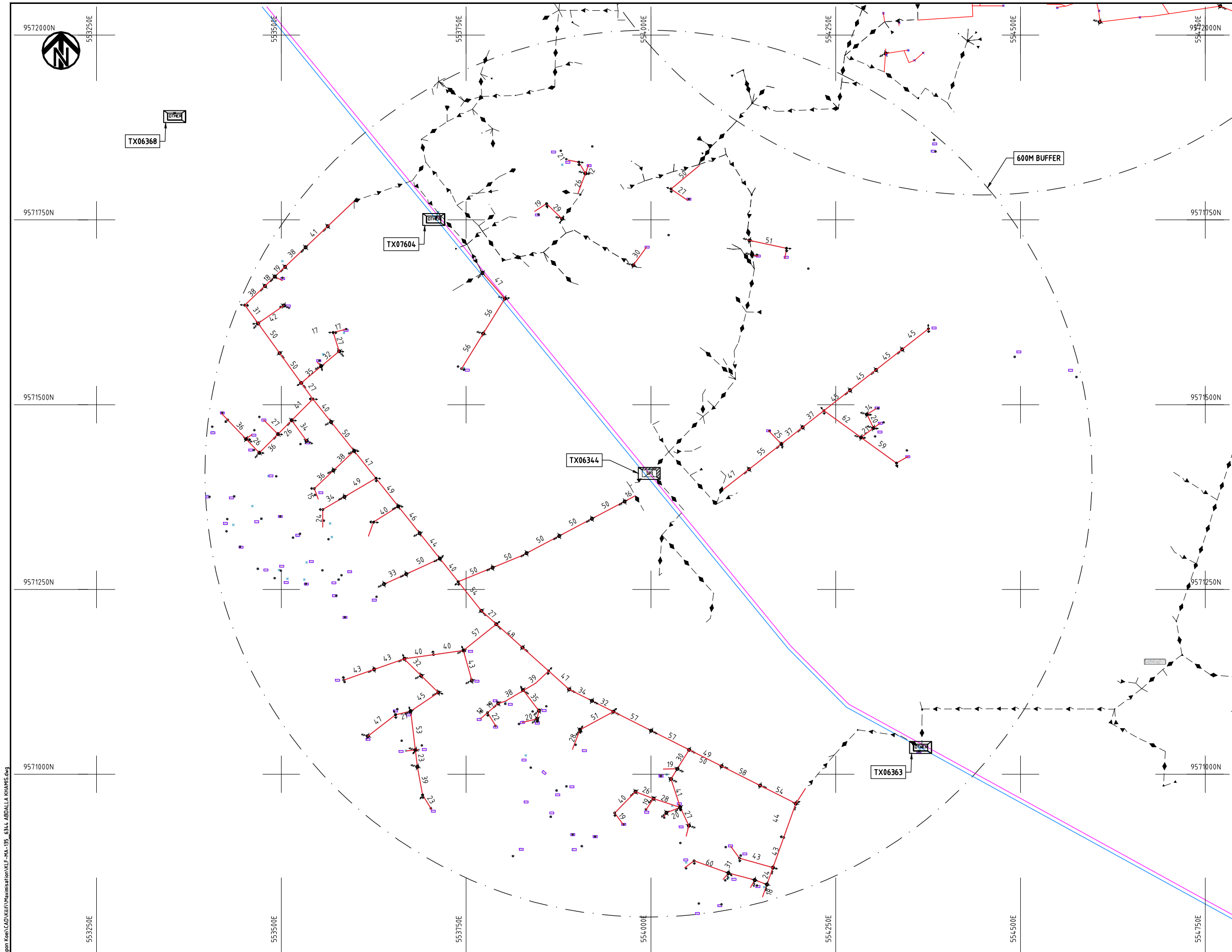


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PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	KILIFI	KLF-MA-134	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA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



Cad File No. D:\Frank-Proj\2018\Nippon Koei\Kilifi\Maximisation\KLF-MA-135_6344-ABDALLA KHAMIS.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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

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		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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP 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

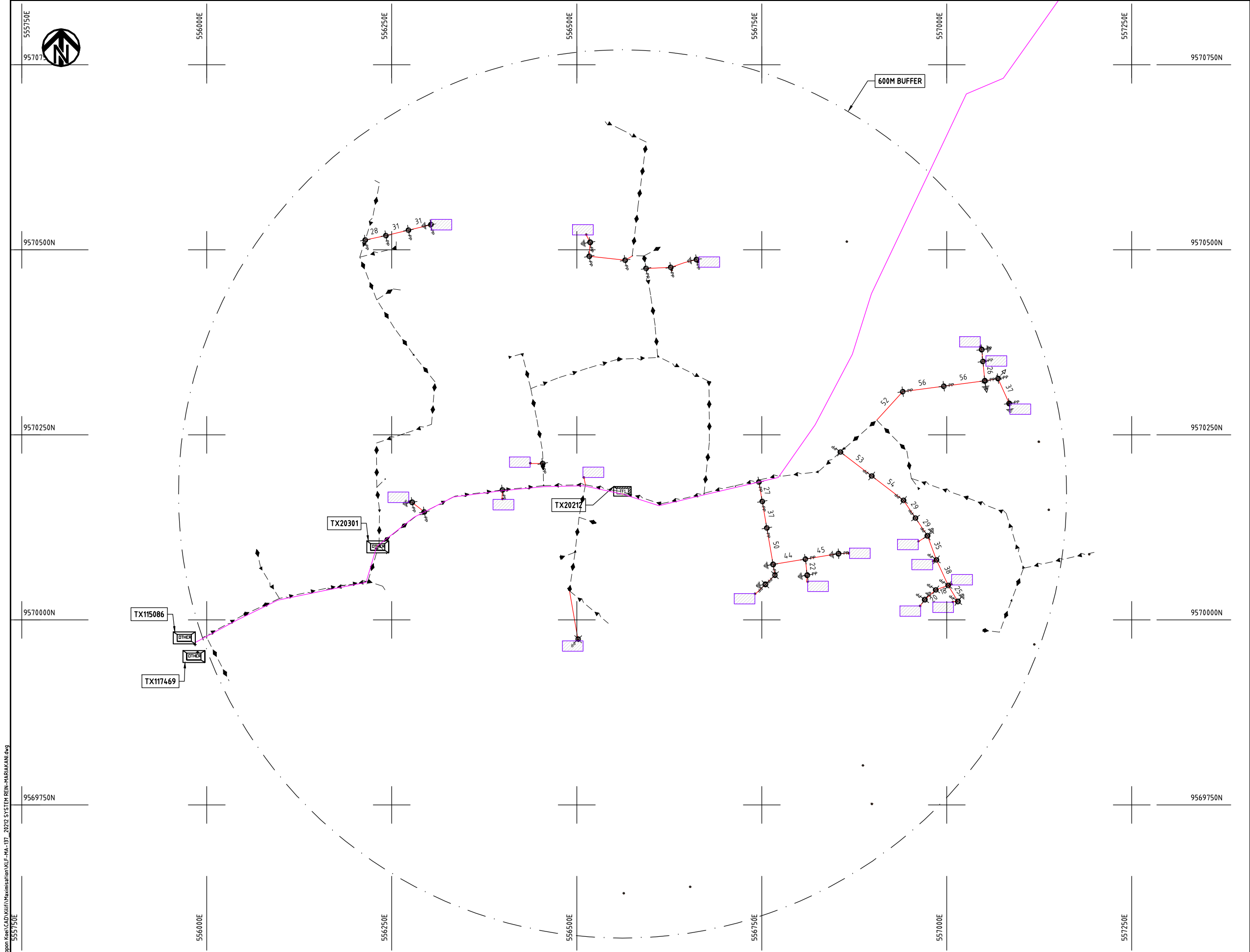
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-137_2018 SYSTEM REIN-MARIAKANI.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
- 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: 20212 - SYSTEM REIN MARIAKANI

DRAW. NO.

KLF-MA-137

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



9586000N

9585750N

9585500N

9585250N

9585000N

558250E

558500E

558750E

559000E

559250E

559500E

9586000N

9585750N

9585500N

9585250N

9585000N

558250E

558500E

558750E

559000E

559250E

559500E

600m BUFFER_36004 Kinangoni Village

TX36004

TX19630

OTHER

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: 36004 KINAGONI VILLAGE GOTANI

DRAW. NO.

KLF-MA-138

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

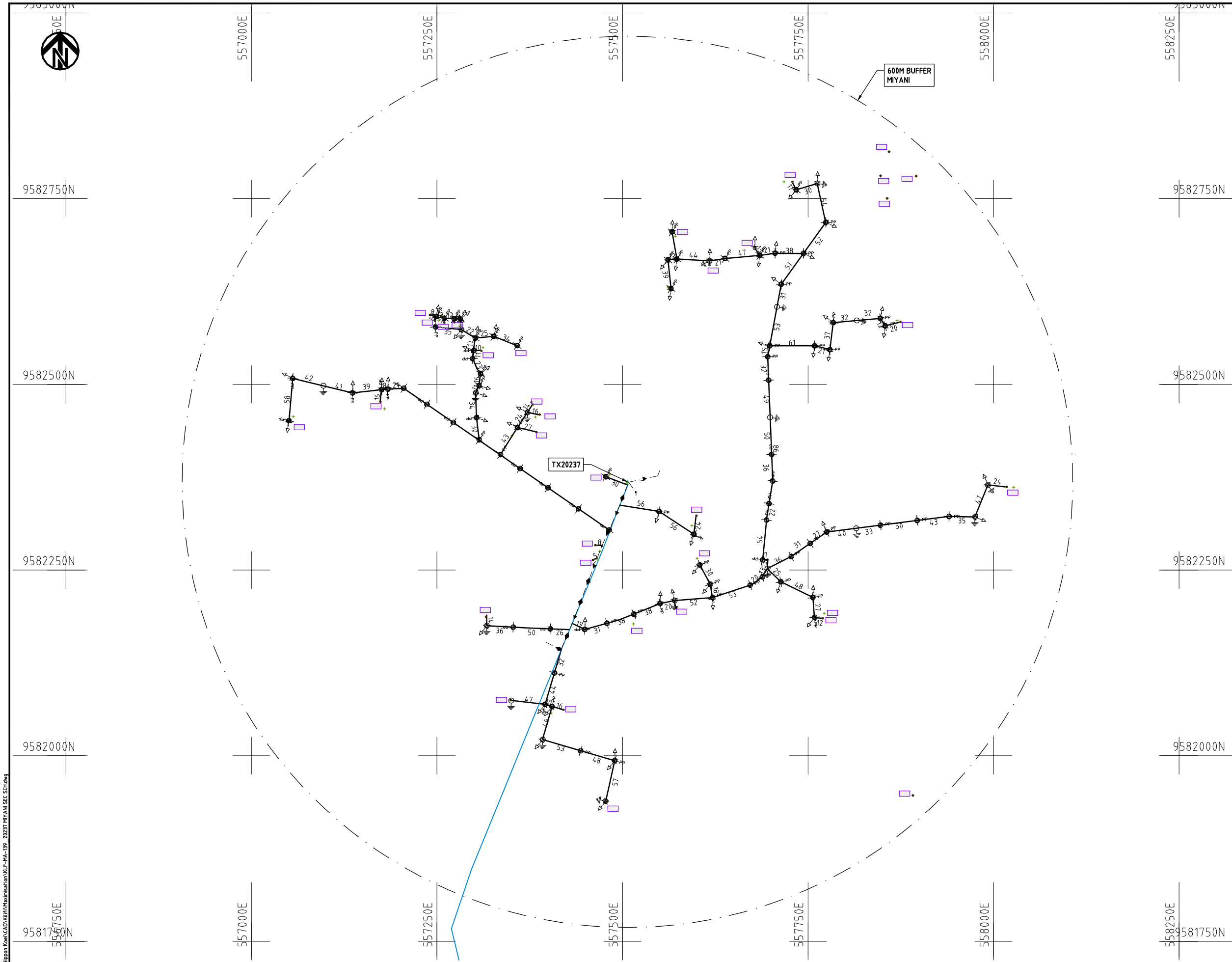
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kilifi\Maximisation\KLF-MA-139_20237 MIYANI SEC 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

- 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: 20237 MIYANI SEC SCH

DRAW. NO.

KLF-MA-139

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

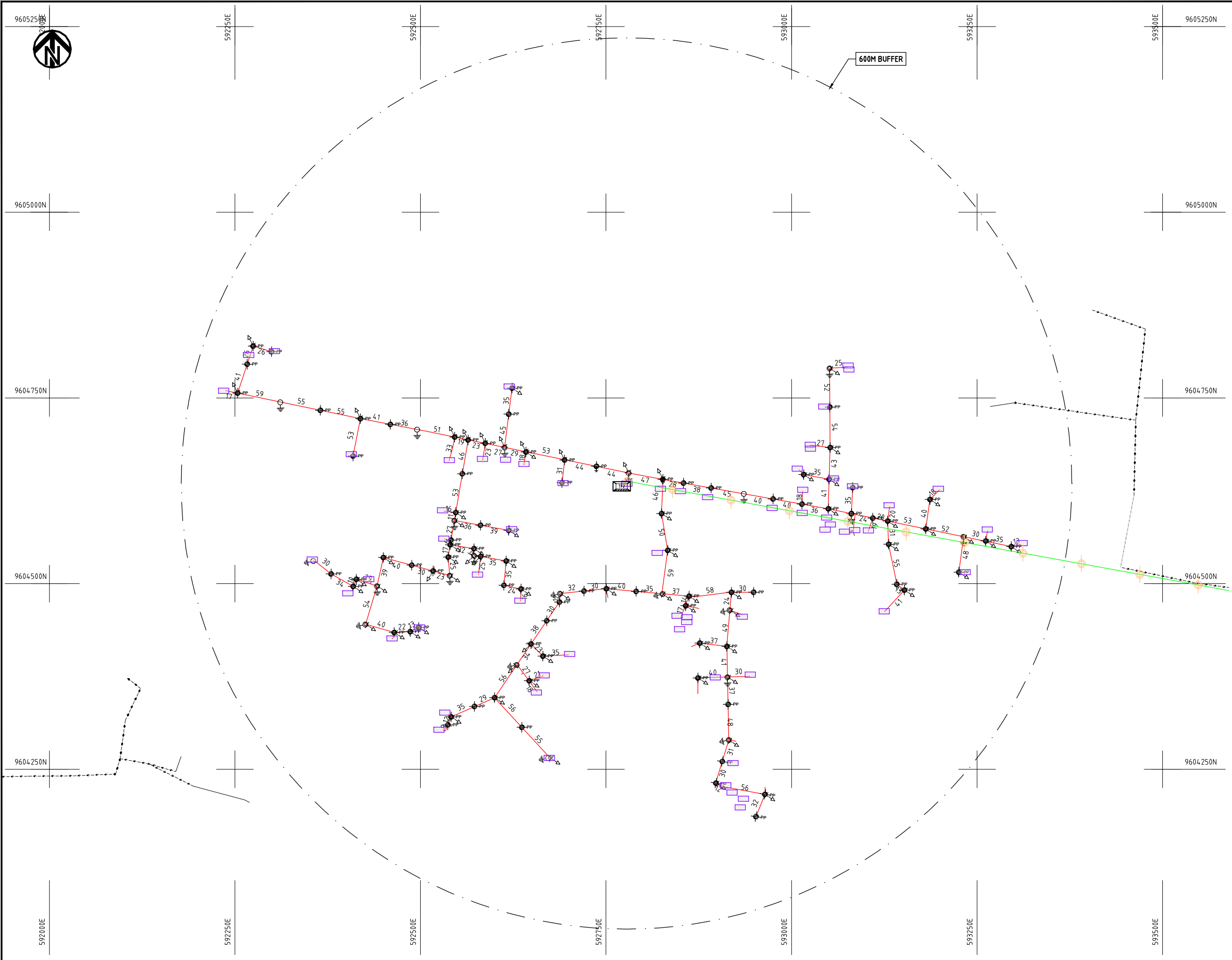
10th SEP 2018



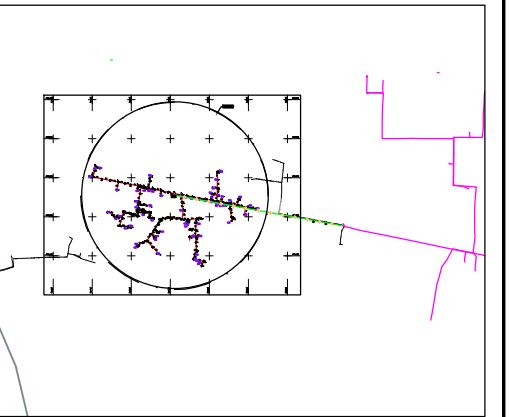
NIPPON KOEI CO., LTD

キリフィ郡

Extension and Maximization



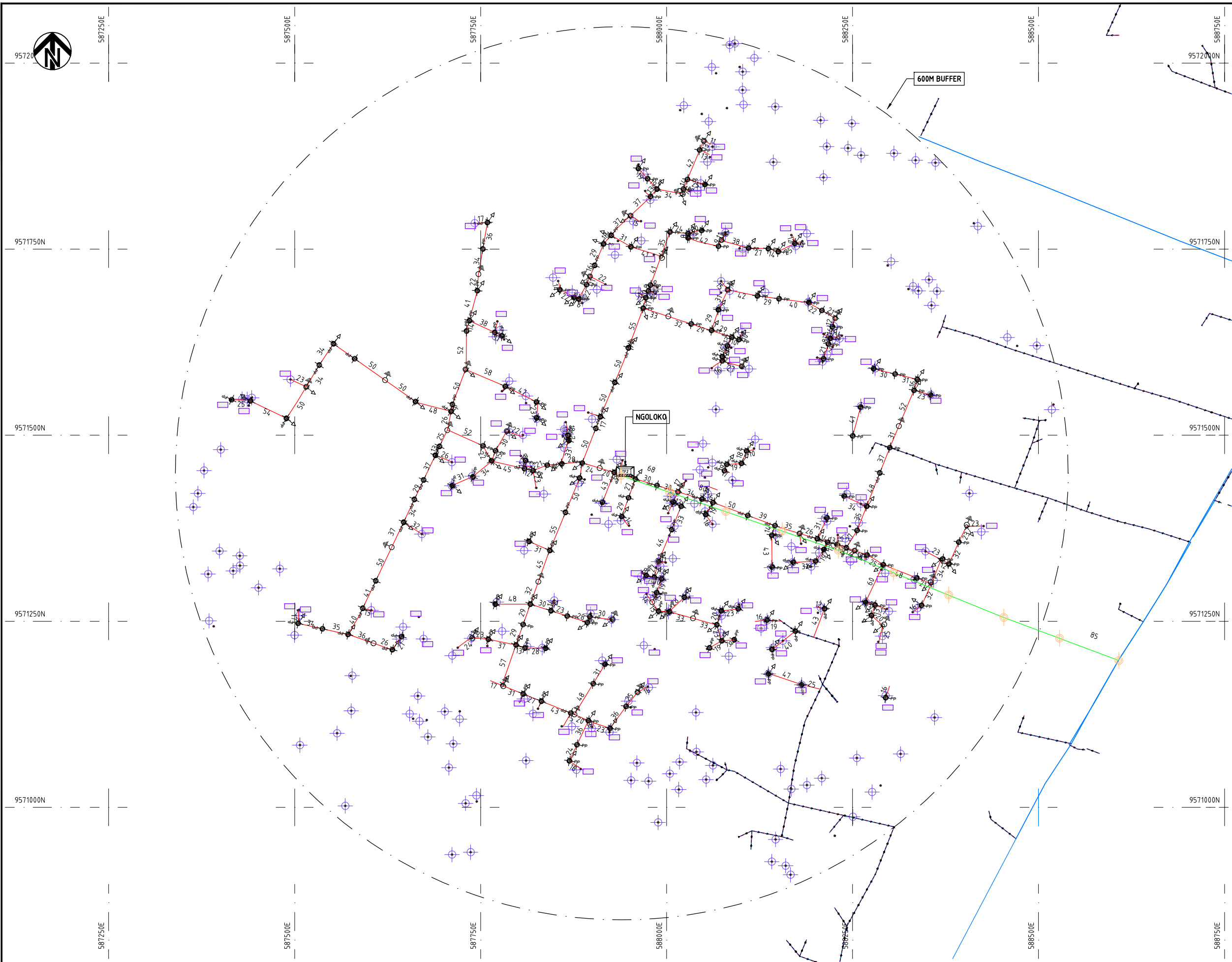
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



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



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

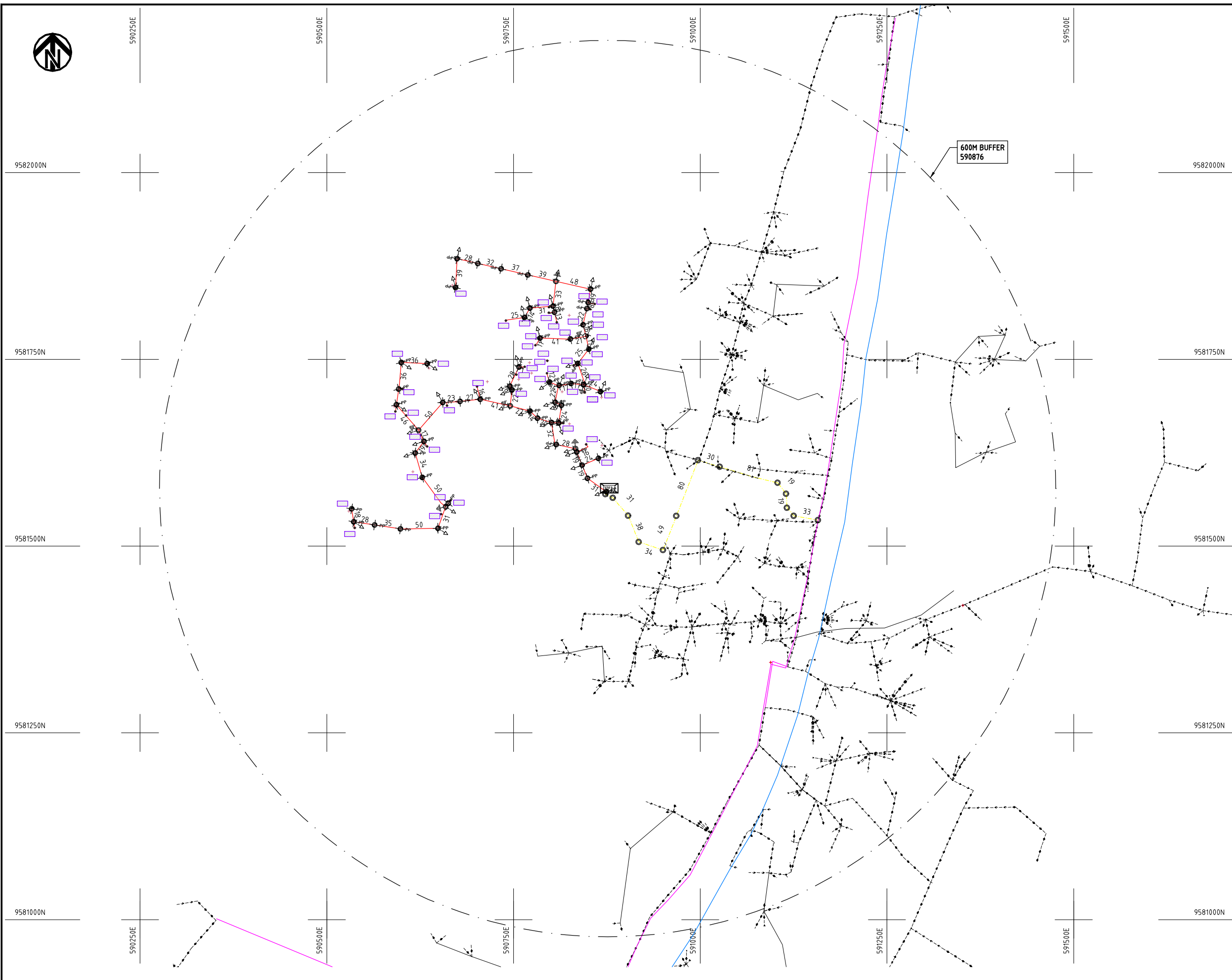
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PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE
COUNTY: KILIFI
SCHEME: EXTENSION
PROJECT SITE: NGOLOKO VILLAGE

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-EX-2	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018

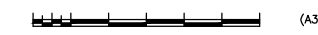
NIPPON KOEI CO., LTD



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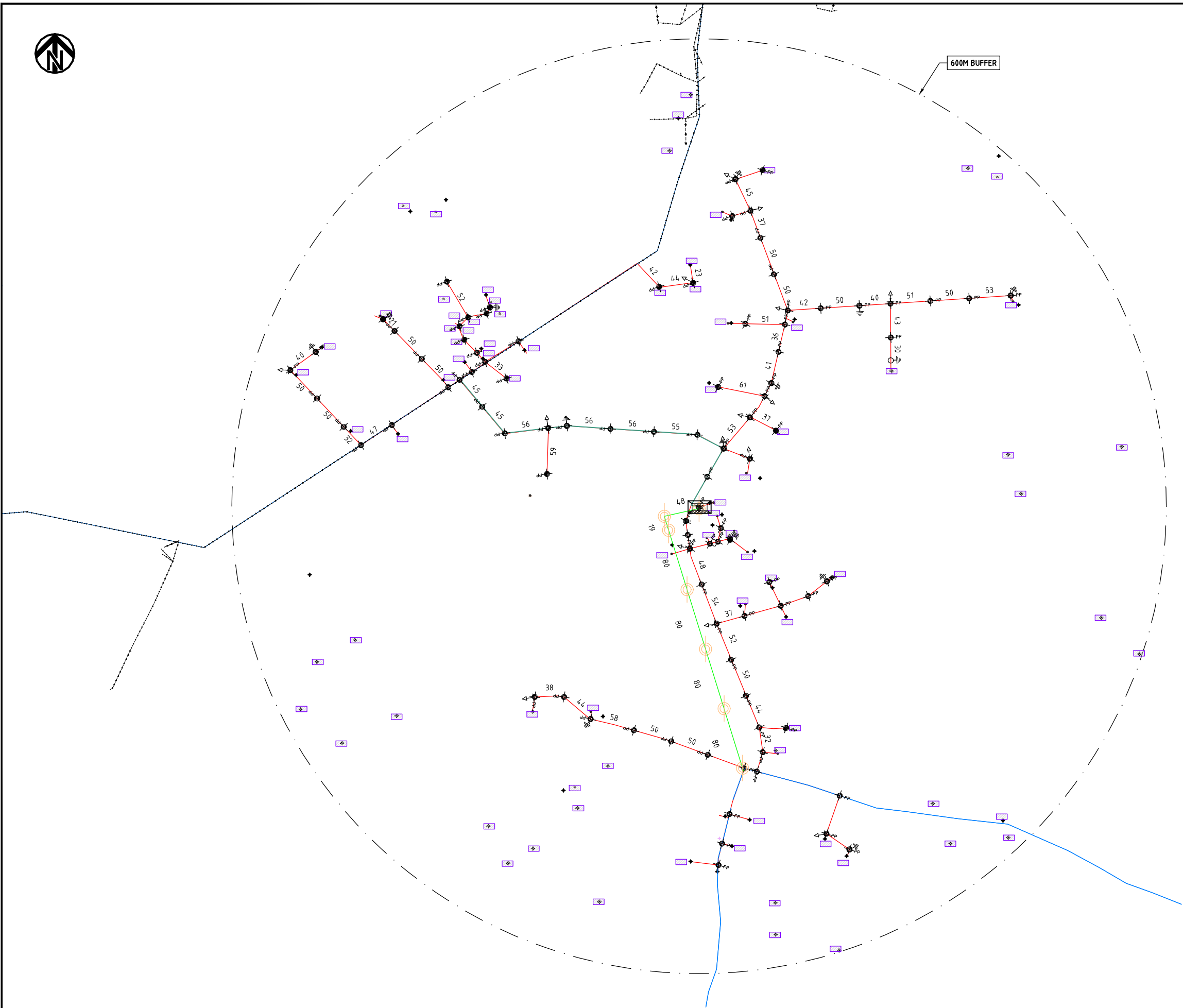
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- 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		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	KILIFI	KLF-EX-3	CHECKED BY	S.MAETA
	SCHEME:	EXTENSION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	SHARIANYI MAJENGO MAPYA		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: 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	KLF-EX-4	CHECKED BY	S.MAETA
		SCHEME:	EXTENSION		APPROVED BY	Y.TANAKA
		PROJECT SITE:	KWA ABEID MWARAKAYA		DATE	10th SEP 2018



577250E

577500E

577750E

578000E

578250E

578500E

578750E

9585500N

9585250N

9585000N

9584750N

9584500N

577250E

577500E

577750E

578000E

578250E

578500E

578750E

9585500N

9585250N

9585000N

9584750N

9584500N

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
- CP CONCRETE ELECTRIC POLES 12M
- CP 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: KILIFI
SCHEME: MAXIMIZATION
PROJECT SITE: KATIKIRIENYI VILLAGE CHONYI

DRAW. NO.

KLF-EX-5

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

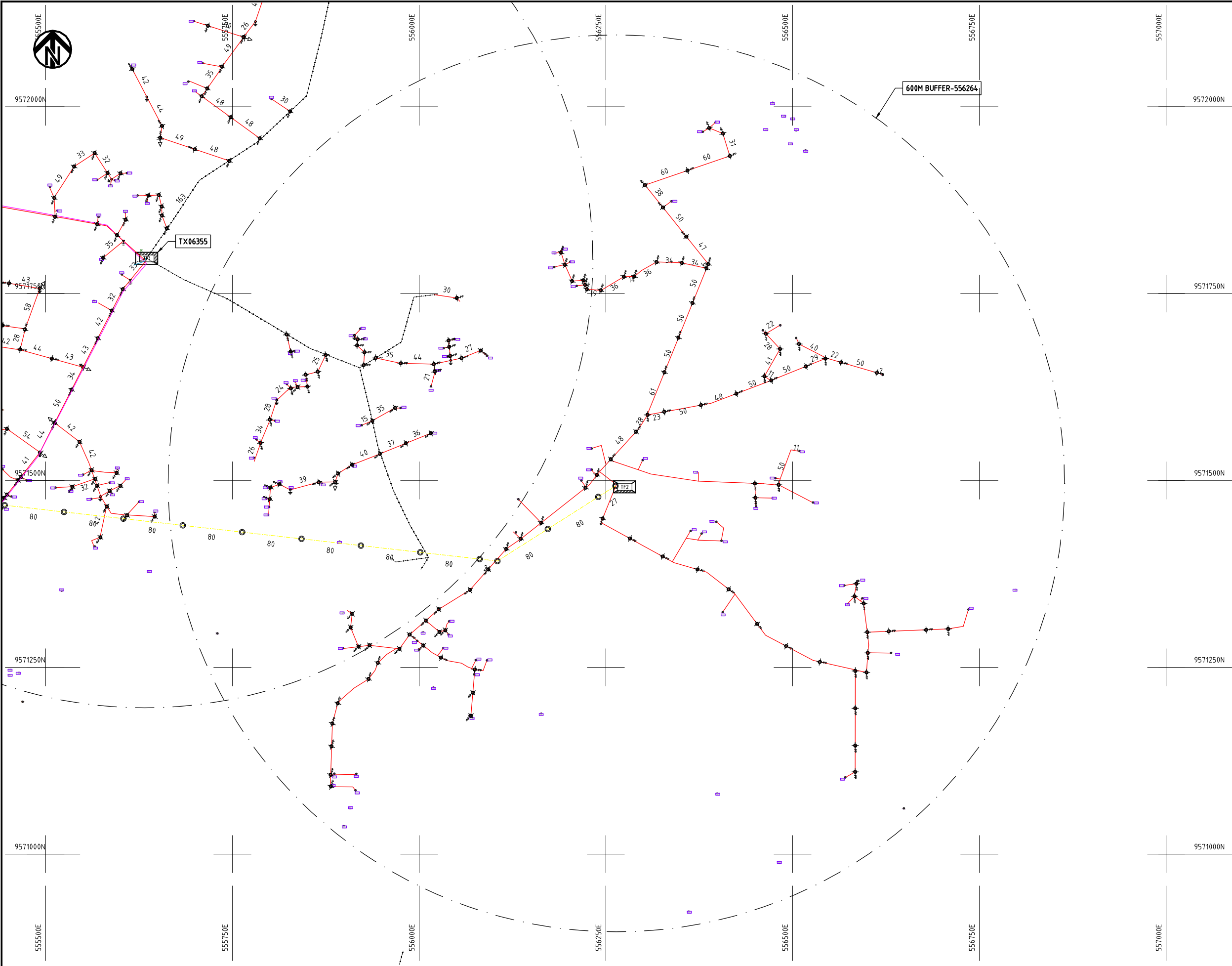
Y.TANAKA

DATE

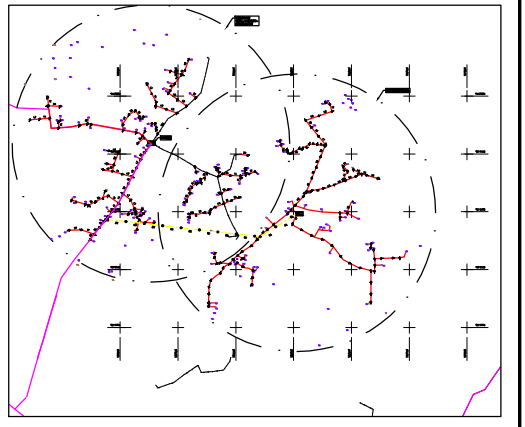
10th SEP 2018



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.

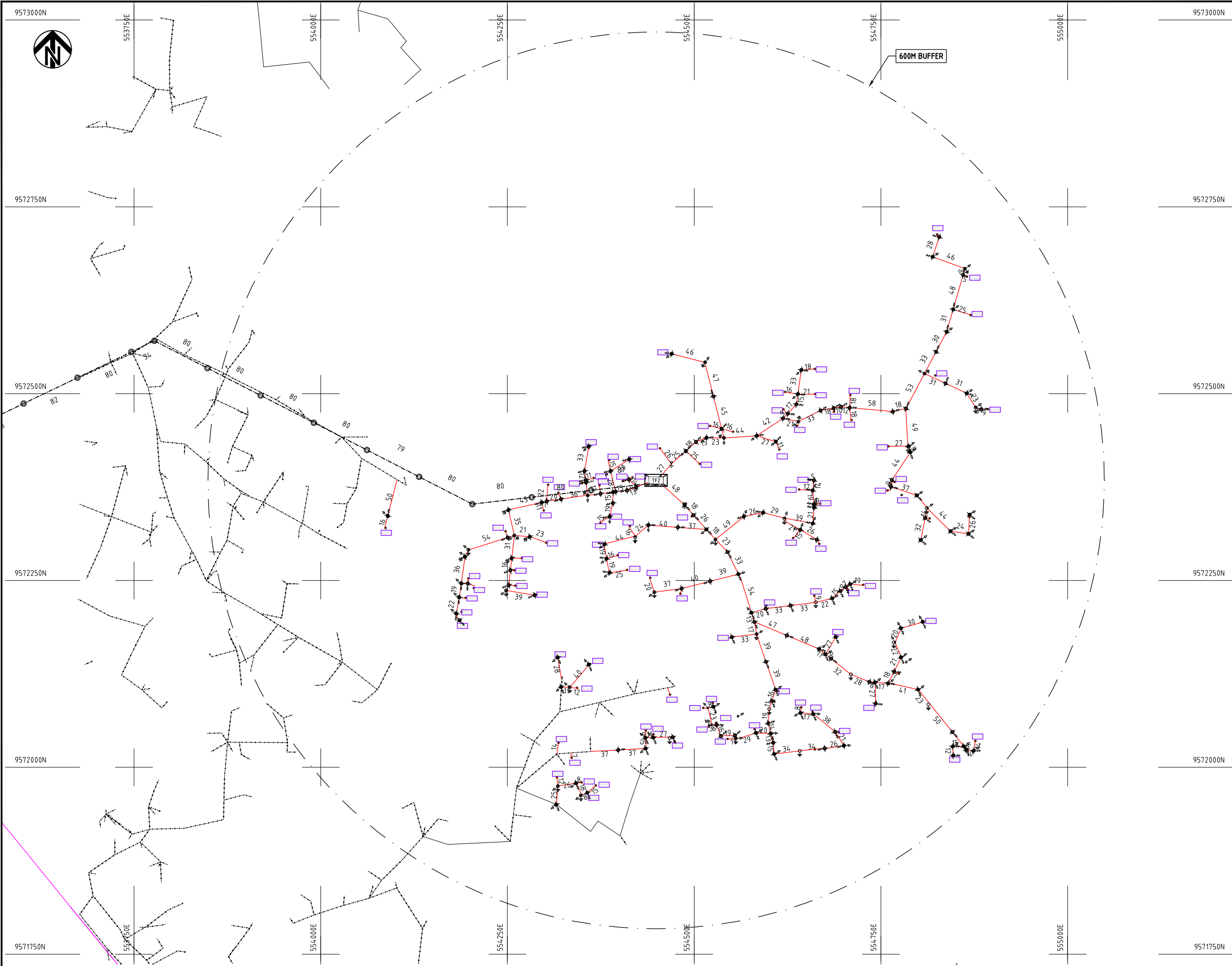


- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
-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

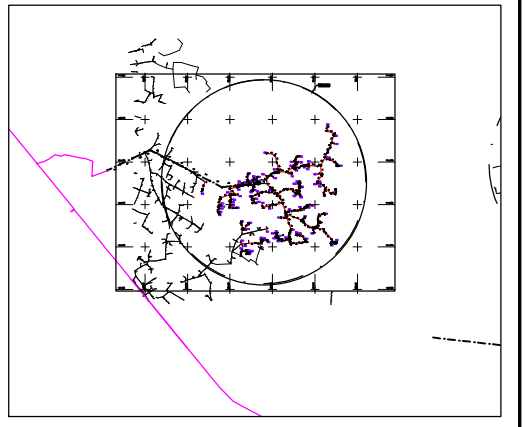


	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY:	KILIFI	KLF-EX-6	CHECKED BY	S.MAETA
		SCHEME:	EXTENSION		APPROVED BY	Y.TANAKA
		PROJECT SITE:	KWA CHIKOLOLO VILLAGE MARIKANI		DATE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

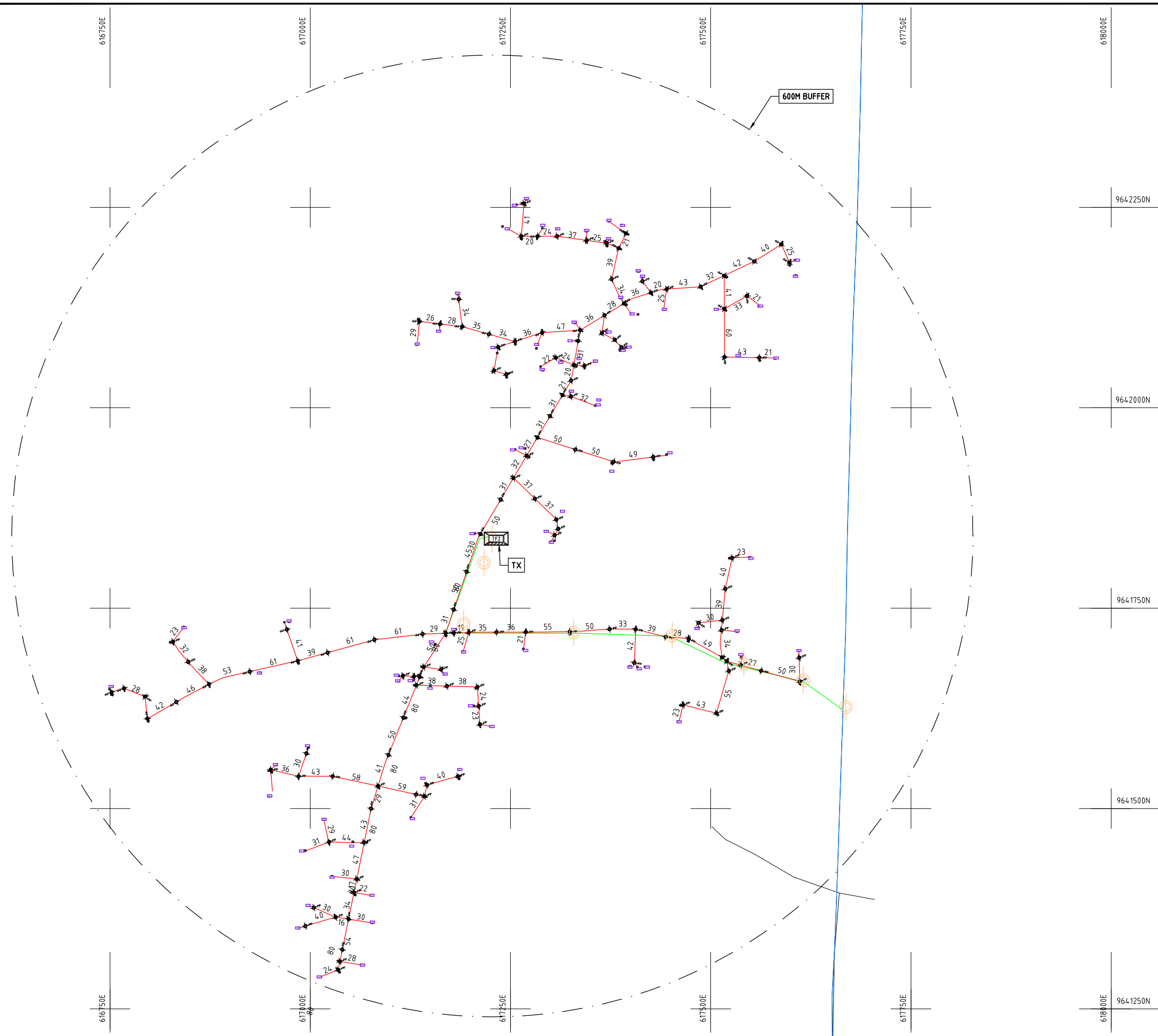


- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
-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



	PROJECT: 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	KLF-EX-7	CHECKED BY	S.MAETA
		SCHEME:	EXTENSION		APPROVED BY	Y.TANAKA
		PROJECT SITE:	MKWAJUNI VILLAGE MARIAKANI		DATE	10th SEP 2018



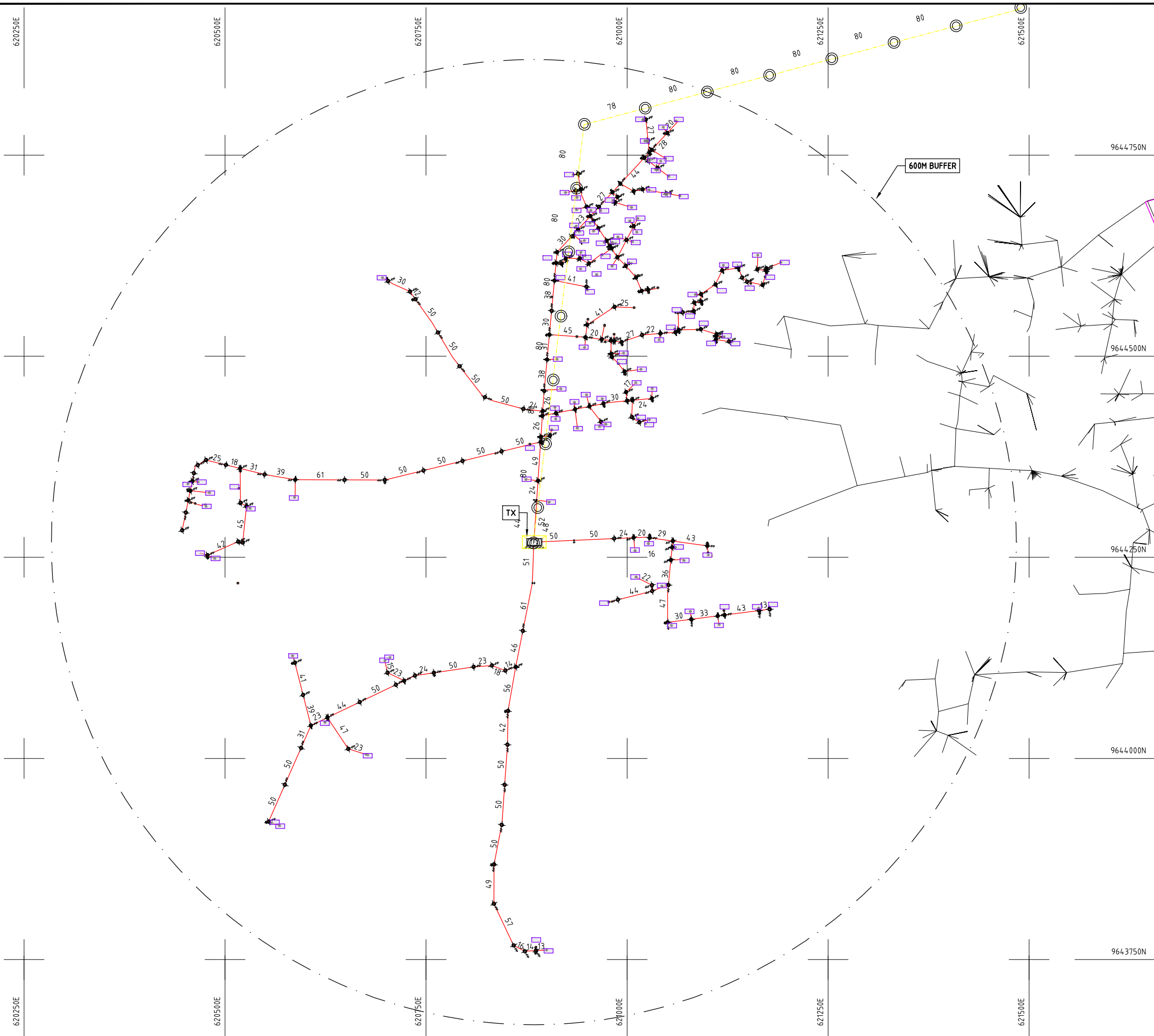


- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- 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

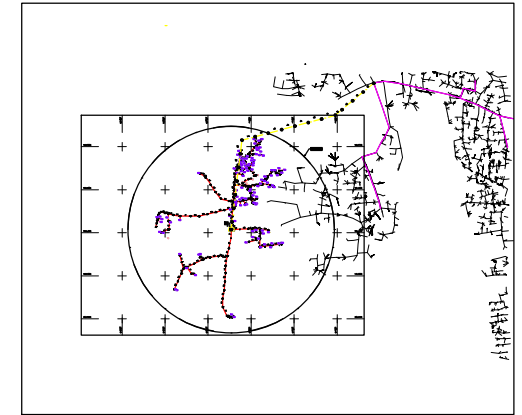
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PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR	 NIPPON KOEI CO., LTD
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: MSHONGOLENI JUNCTION	KLF-EX-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

1:10000 (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: GANDA VURUNZI

DRAW. NO.

KLF-EX-9

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

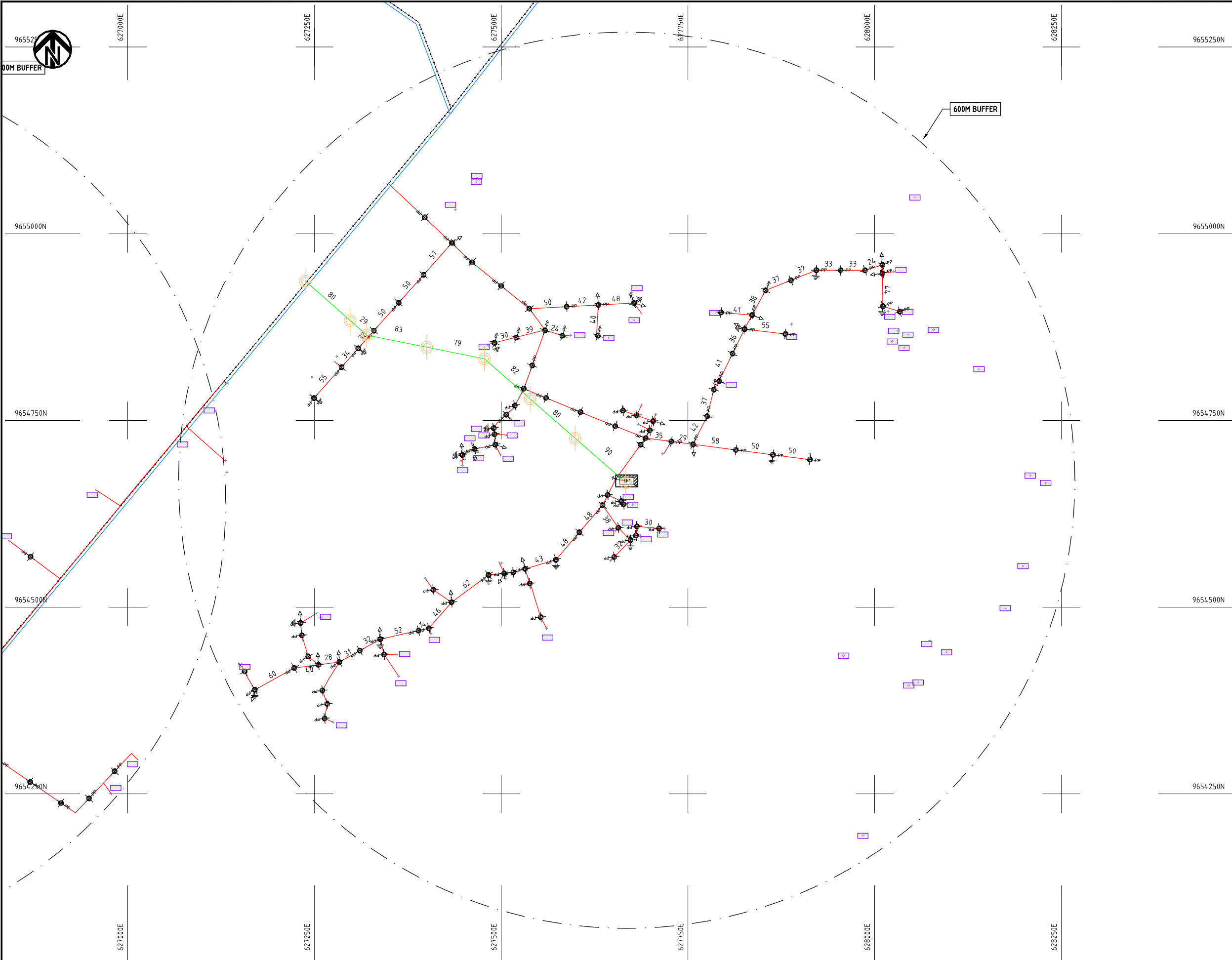
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



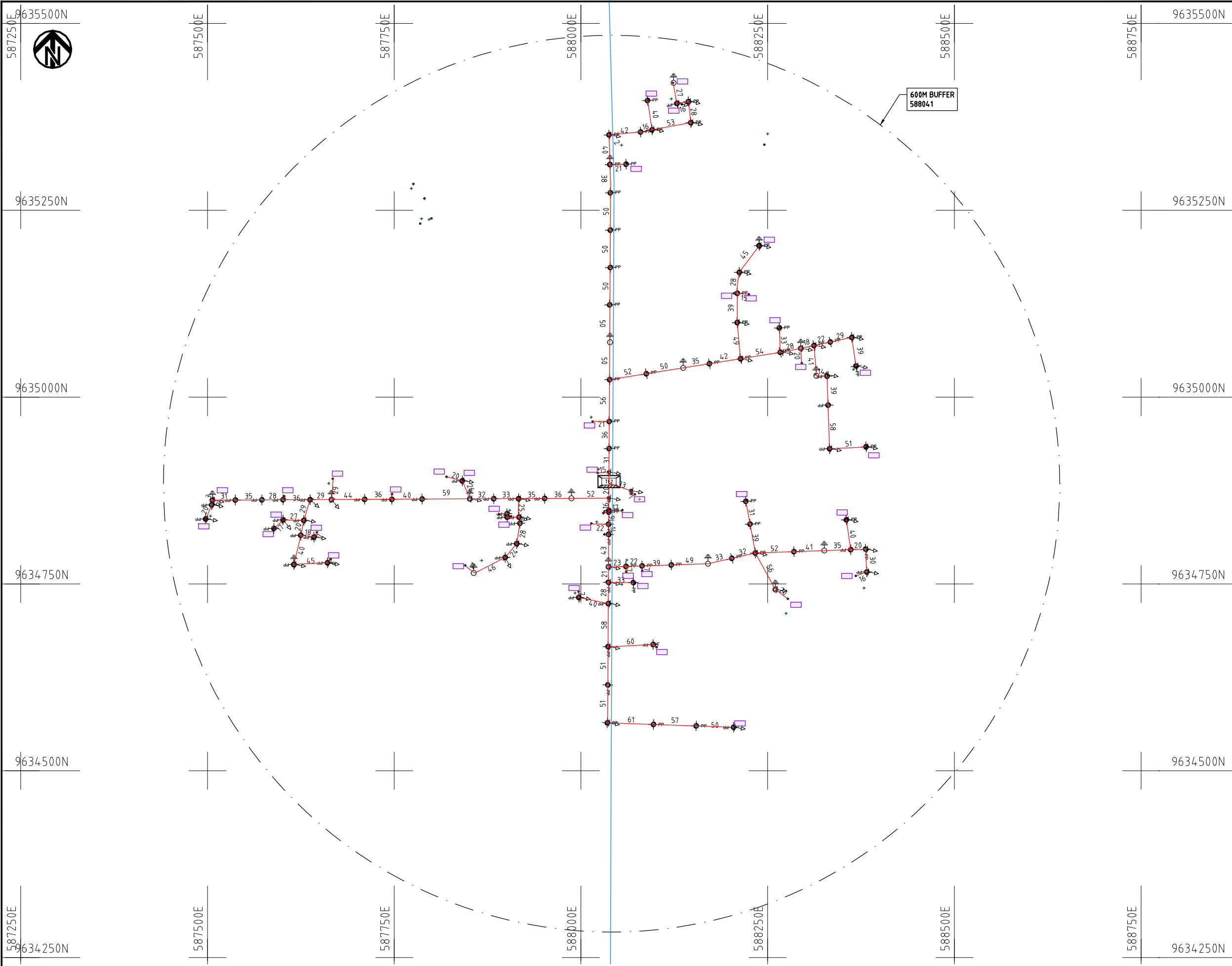
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- 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-10	CHECKED BY	S.MAETA
		COUNTY: KILIFI SCHEME: EXTENSION PROJECT SITE: MAMBRUI		APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018



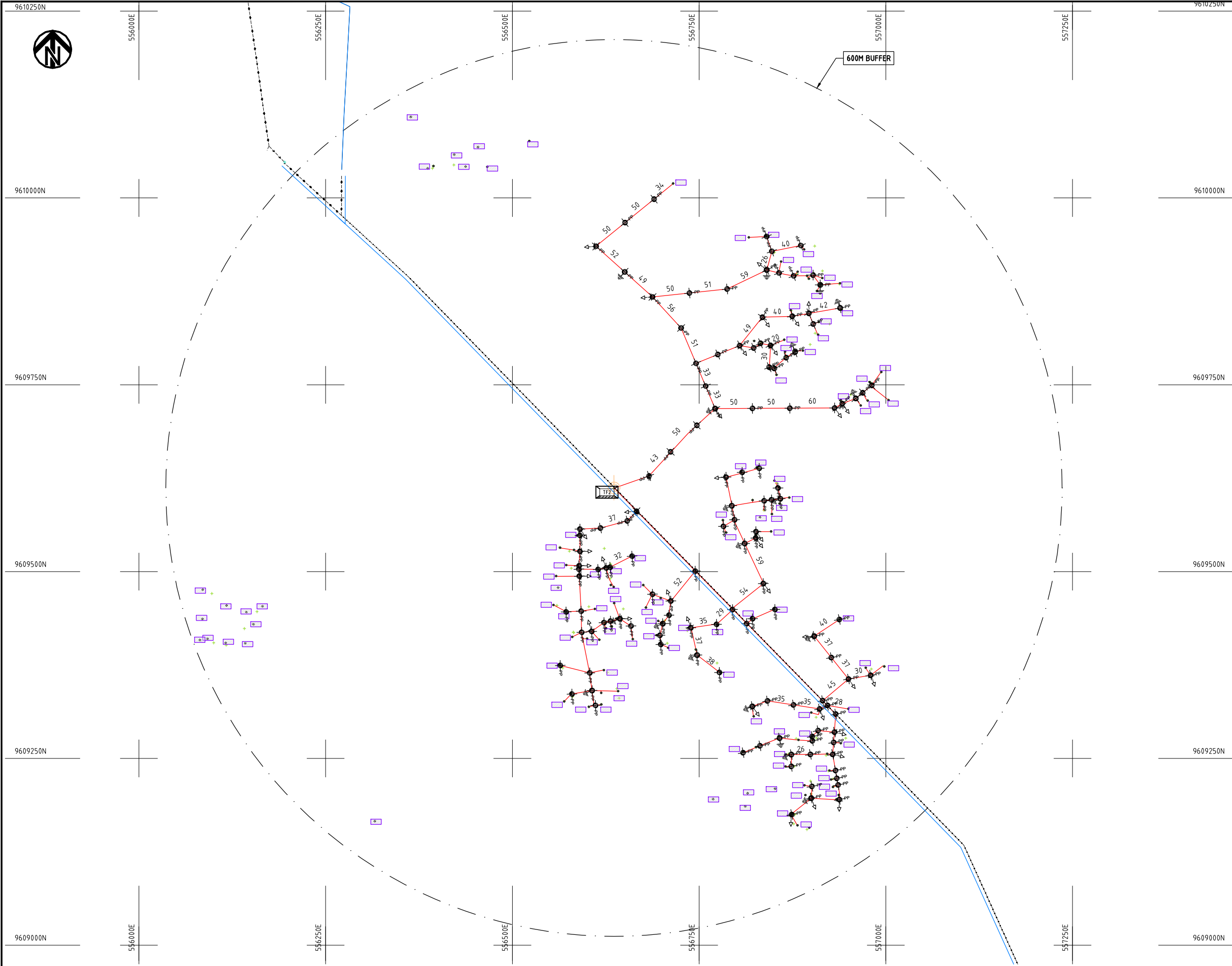


- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- 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		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

1:10000 (A3)

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: MWENZAMOYO BAMBA

DRAW. NO.

KLF-EX-12

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

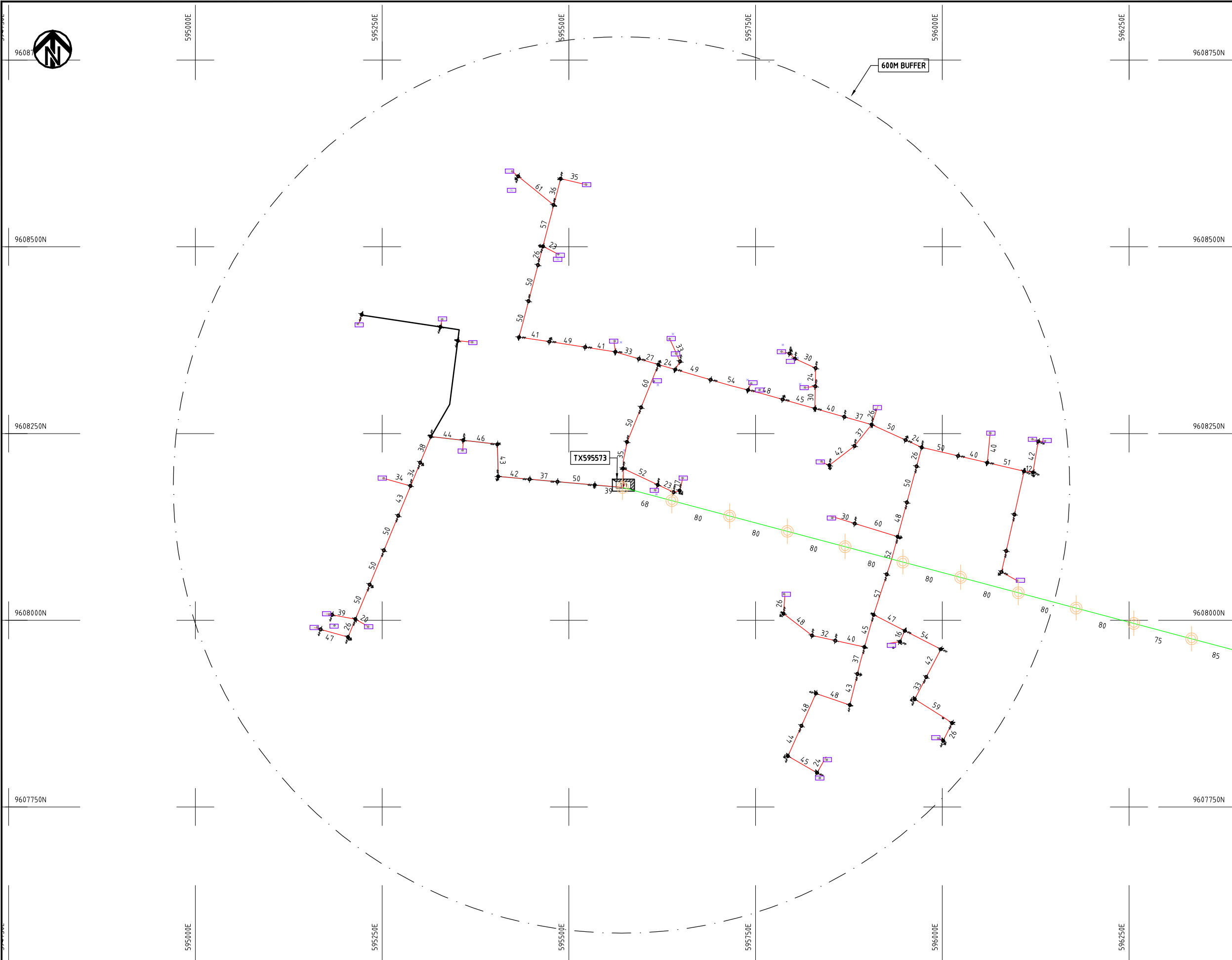
Y.TANAKA

DATE

10th SEP 2018

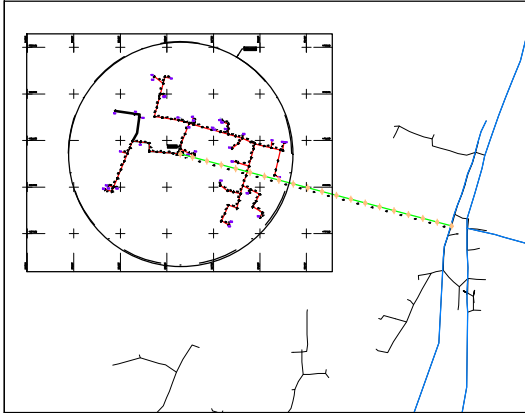


NIPPON KOEI CO., LTD



NOTES:

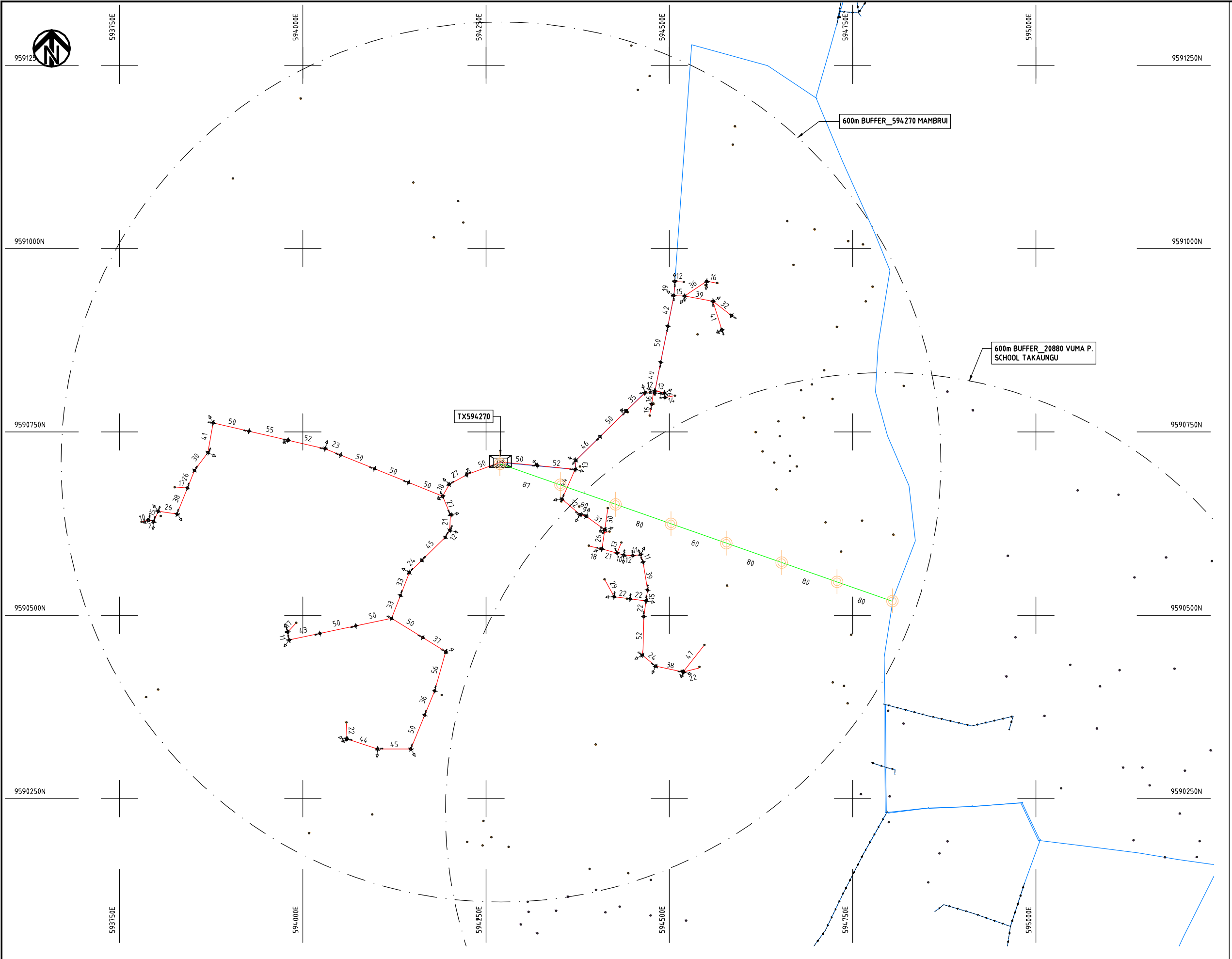
- 1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
- 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
- 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
- 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- 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

(A3)

	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 PROJECT SITE: KITUONI TEZO	KLF-DL-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.

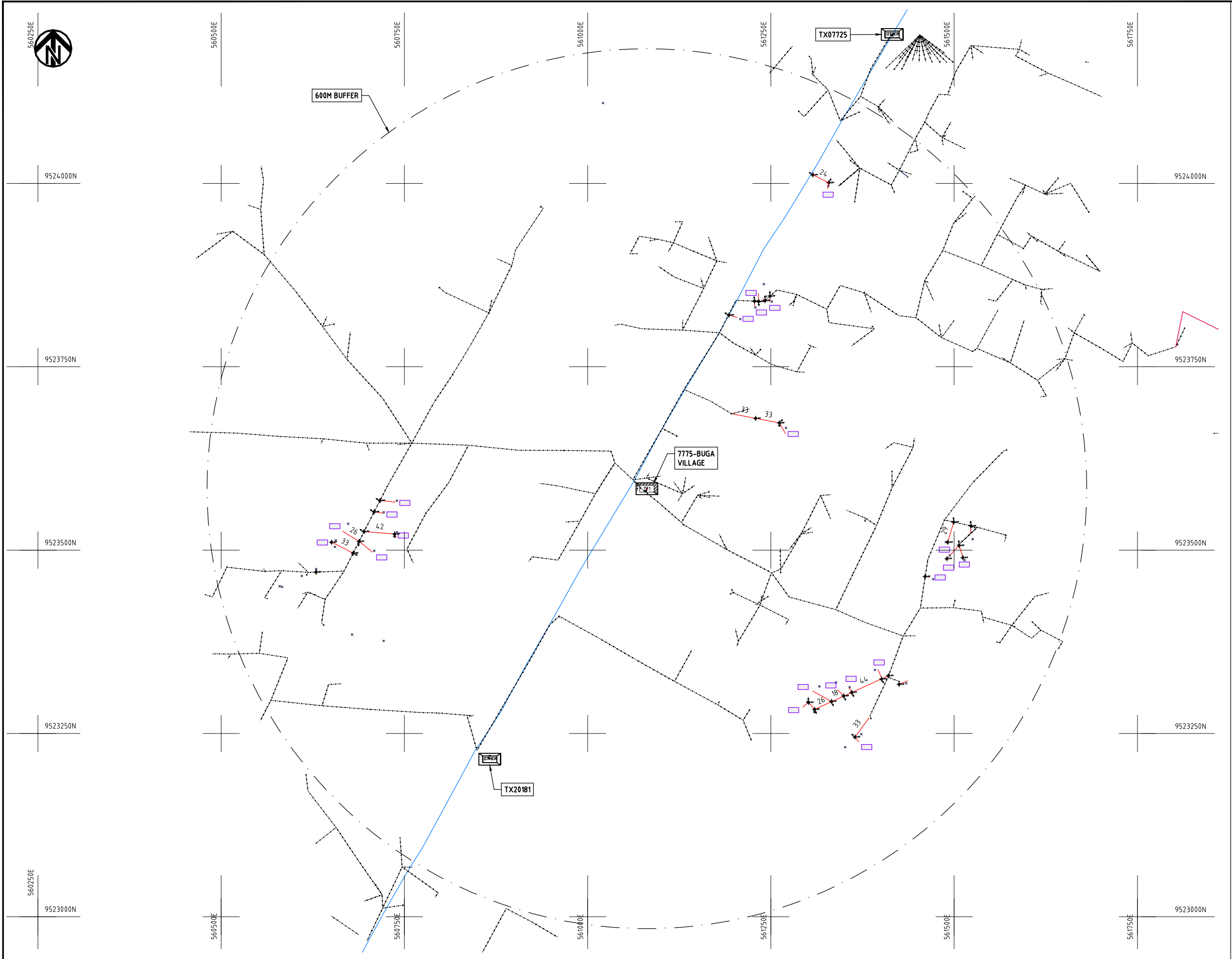
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
-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



PROJECT:	DRAWING TITLE			DRAW. NO.		PREPARED BY	A.AKBAR
						CHECKED BY	S.MAETA
	COUNTY: KILIFI SCHEME: MAXIMIZATION PROJECT SITE: TAKAUNGU VUMA -KAYANDA VILLAGE			KLF-EX-14		APPROVED BY	Y.TANAKA
						DATE	10th SEP 2018

クワレ郡

Maximization



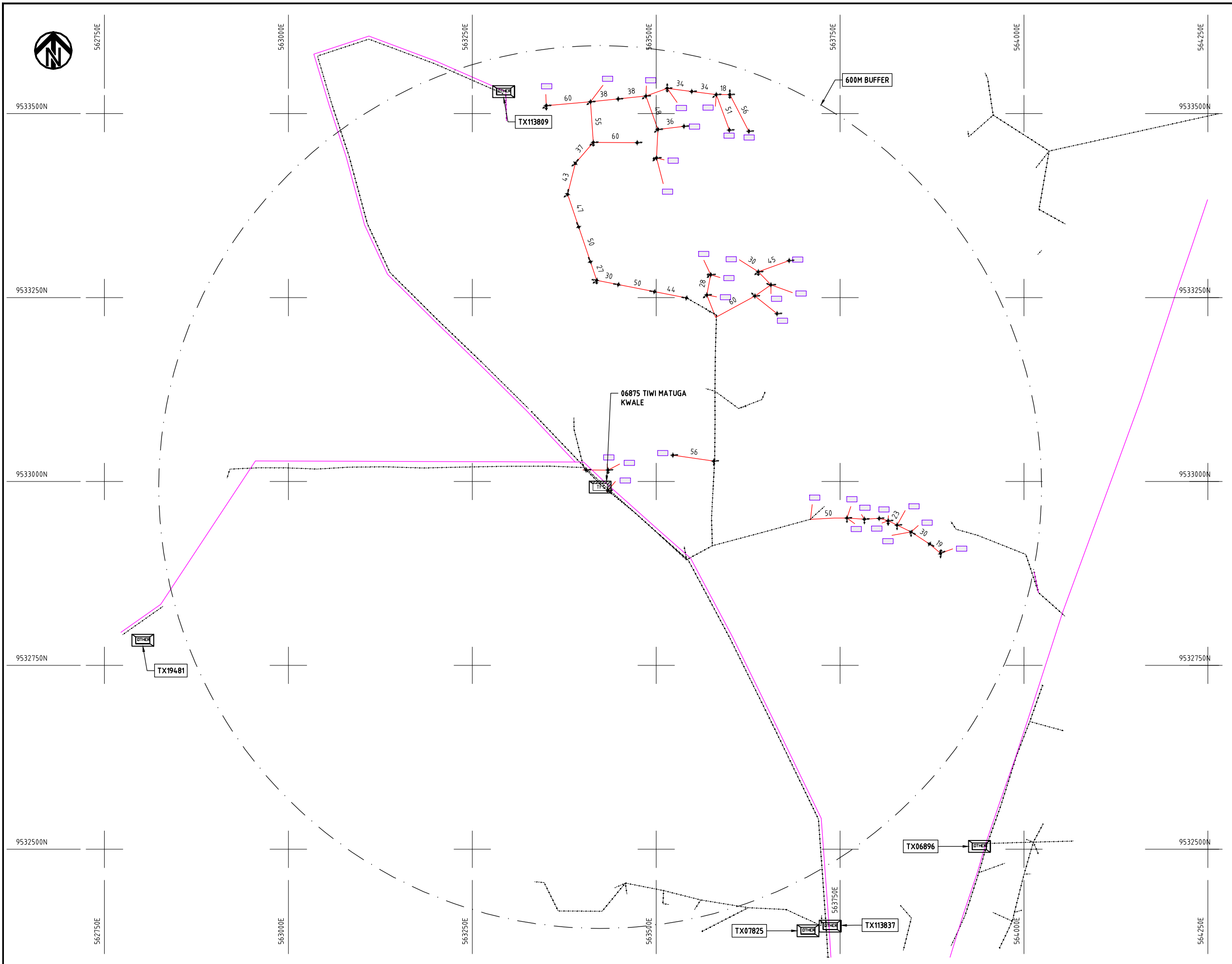
NOTES:

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:	DRAWING TITLE			DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 7775 BUGA VILLAGE VUGA TSIMBA			KWL-MA-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
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

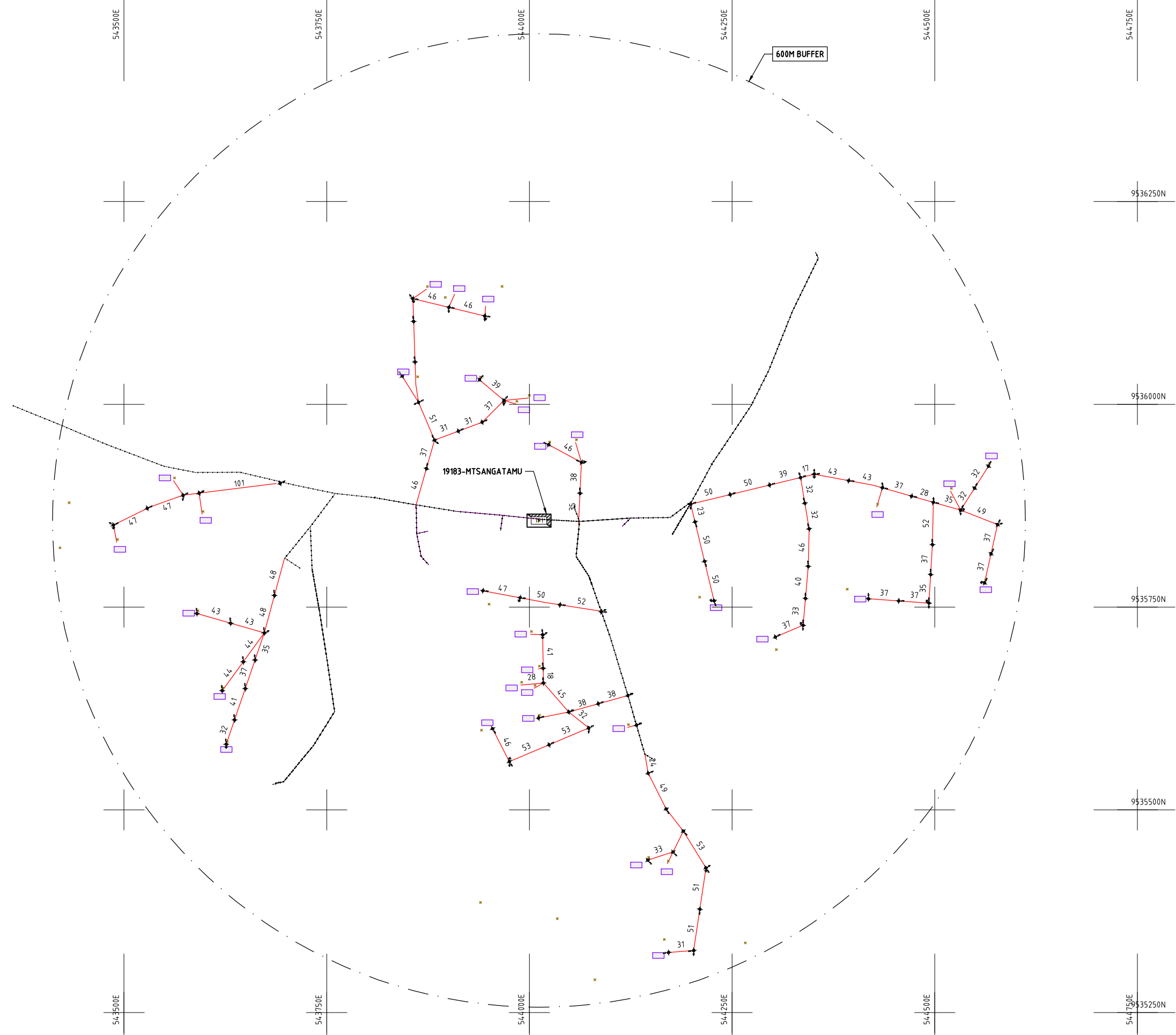


(A3)

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

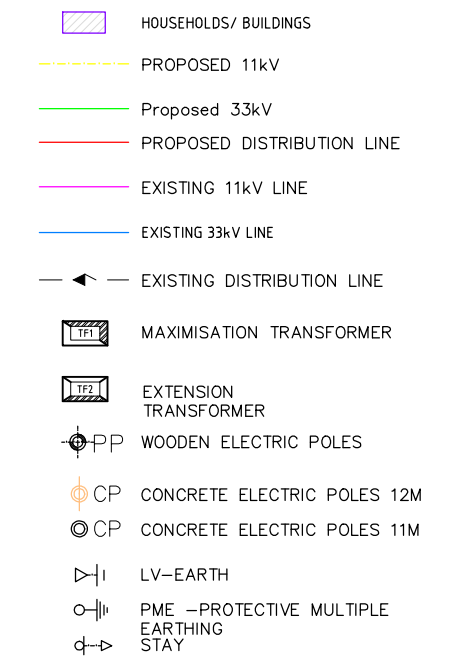


NIPPON KOEI CO., LTD



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.



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: 19183 MTSANGATAMU

DRAW. NO.

KWL-MA-4

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

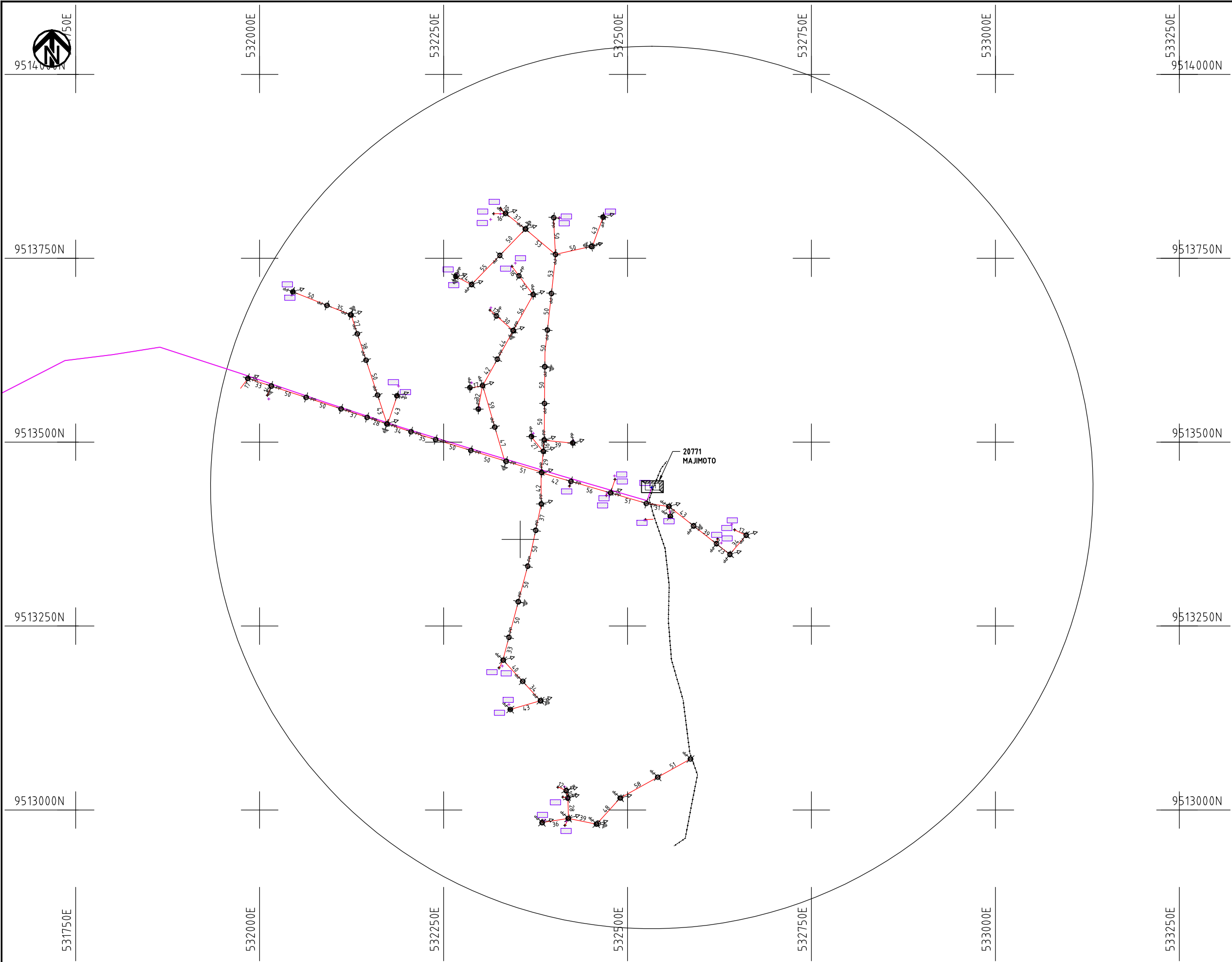
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



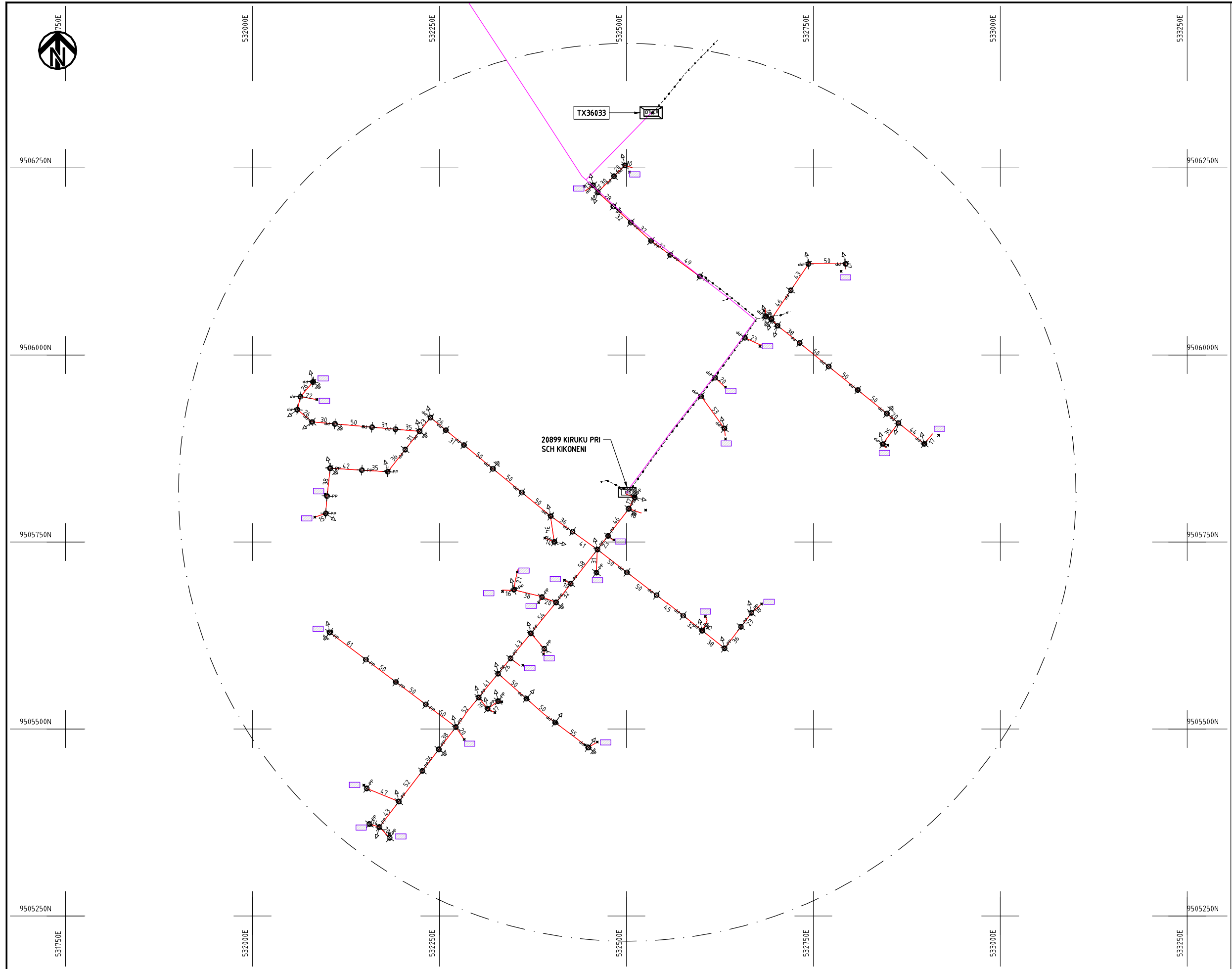
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- 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

(A3)

	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: 20771 MAJIMOTO		KLF-MA-5	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018

NIPPON KOEI CO., LTD



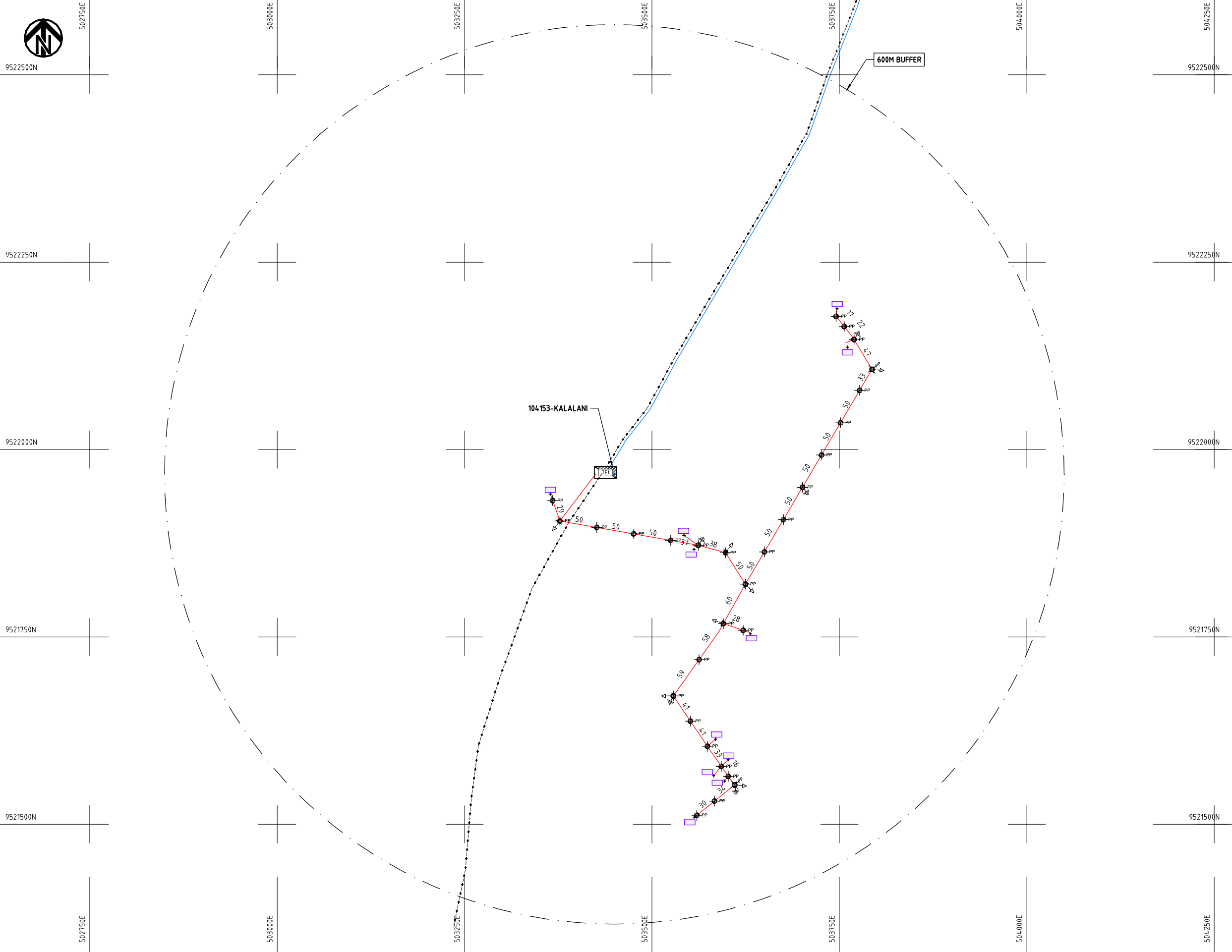
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

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





- 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

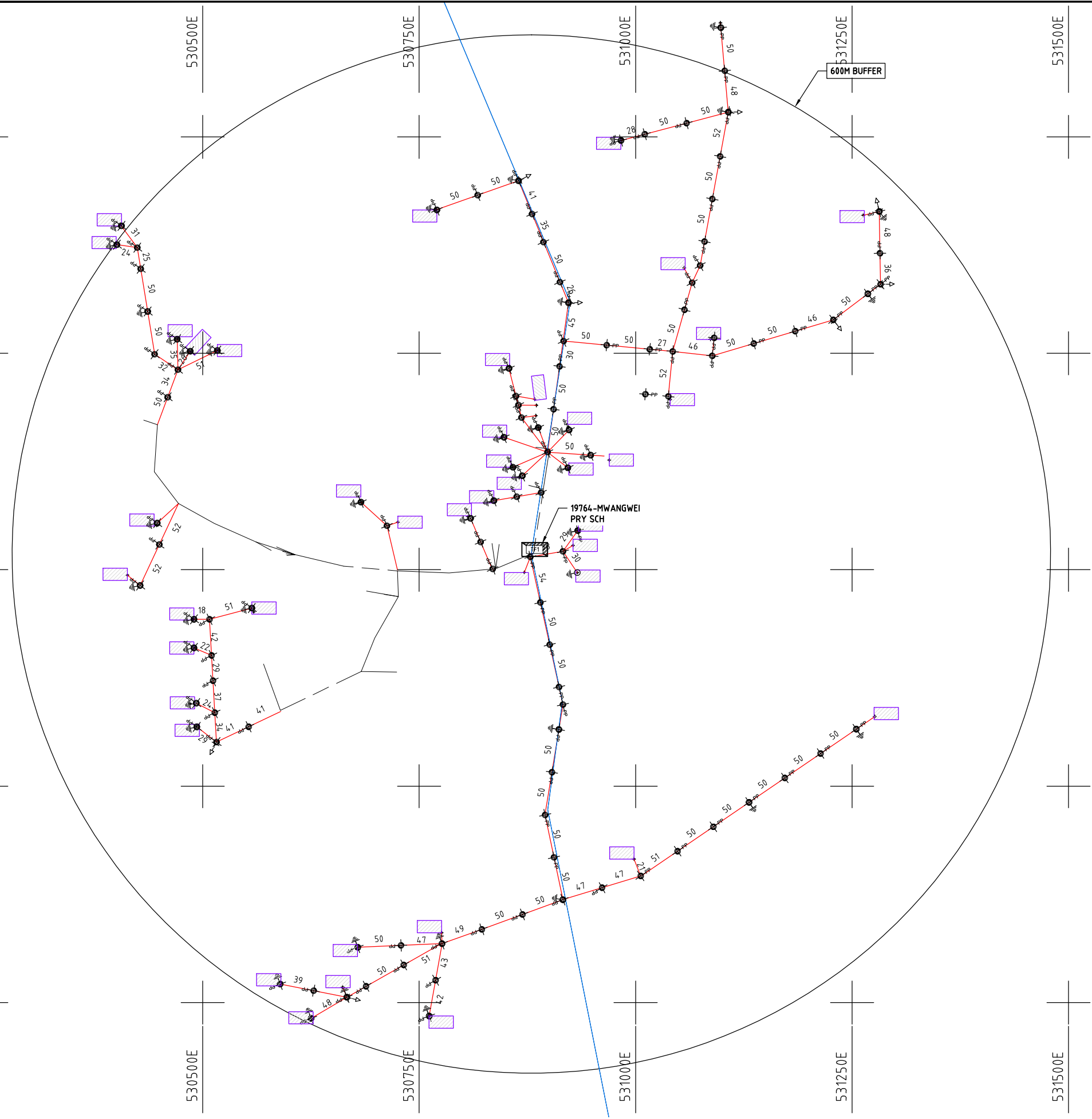
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PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

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





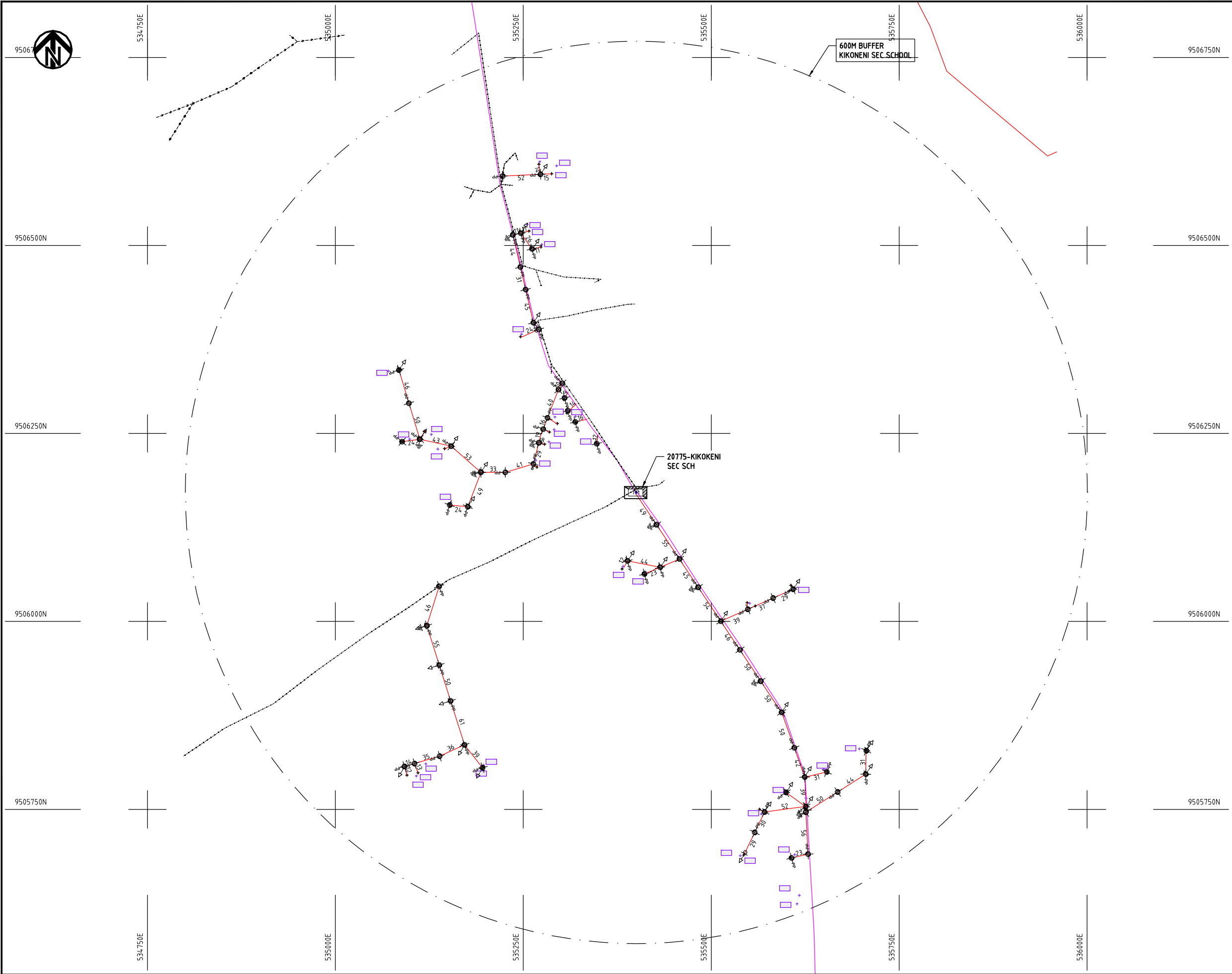
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- 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
- 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: 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 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: 20775 KIKOKENI SEC SCH

DRAW. NO.	PREPARED BY	A.AKBAR
KLF-MA-010	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	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

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.

KLF-MA-12

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.

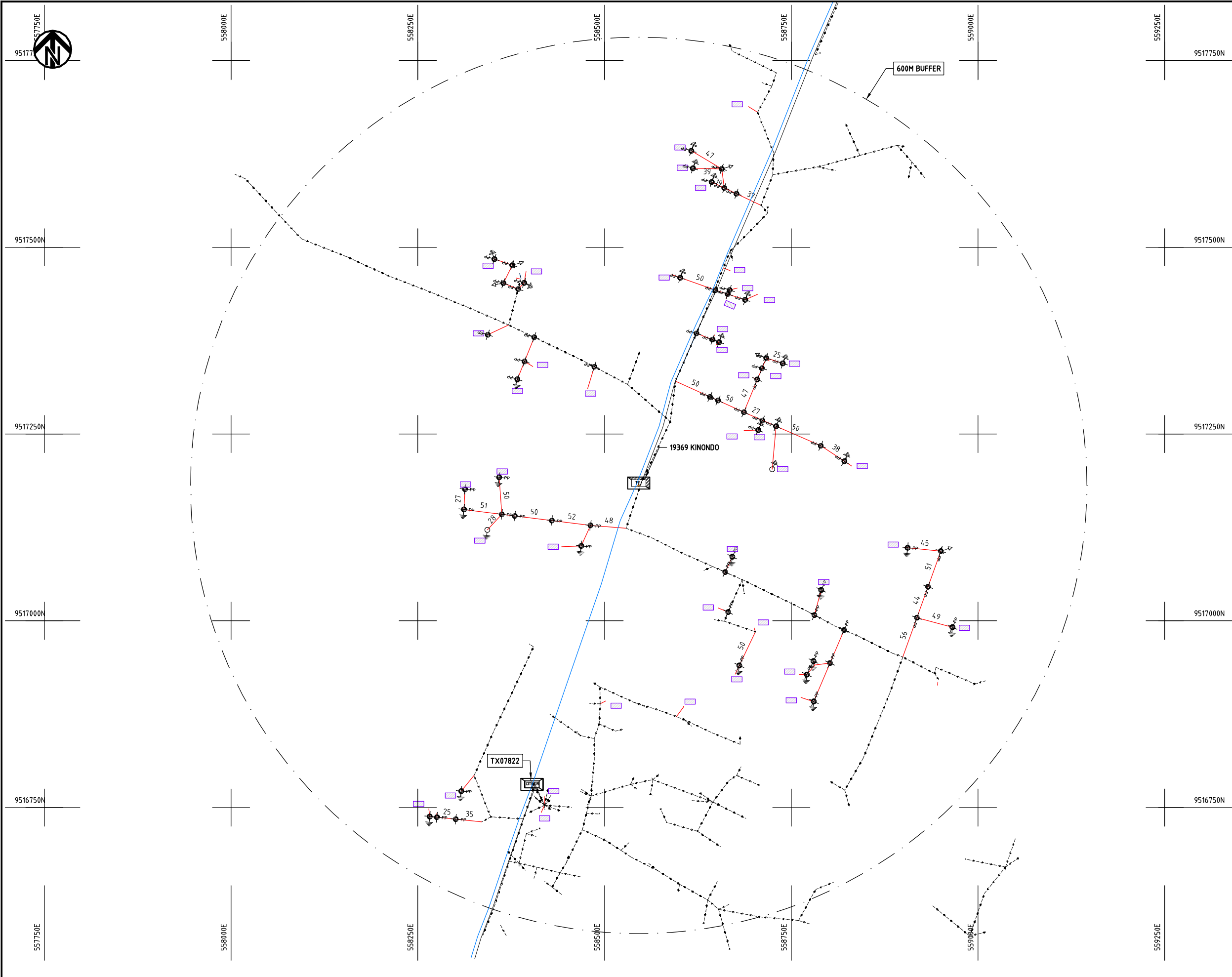
-  HOUSEHOLDS/ BUILDINGS
-  PROPOSED 11kV
-  Proposed 33kV
-  PROPOSED DISTRIBUTION LINE
-  EXISTING 11kV LINE
-  EXISTING 33kV LINE
-  EXISTING DISTRIBUTION LINE
-  MAXIMISATION TRANSFORMER
-  EXTENSION TRANSFORMER
-  PP WOODEN ELECTRIC POLES
-  CP CONCRETE ELECTRIC POLES 12M
-  CP CONCRETE ELECTRIC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



(A3)



NIPPON KOEI CO., LTD



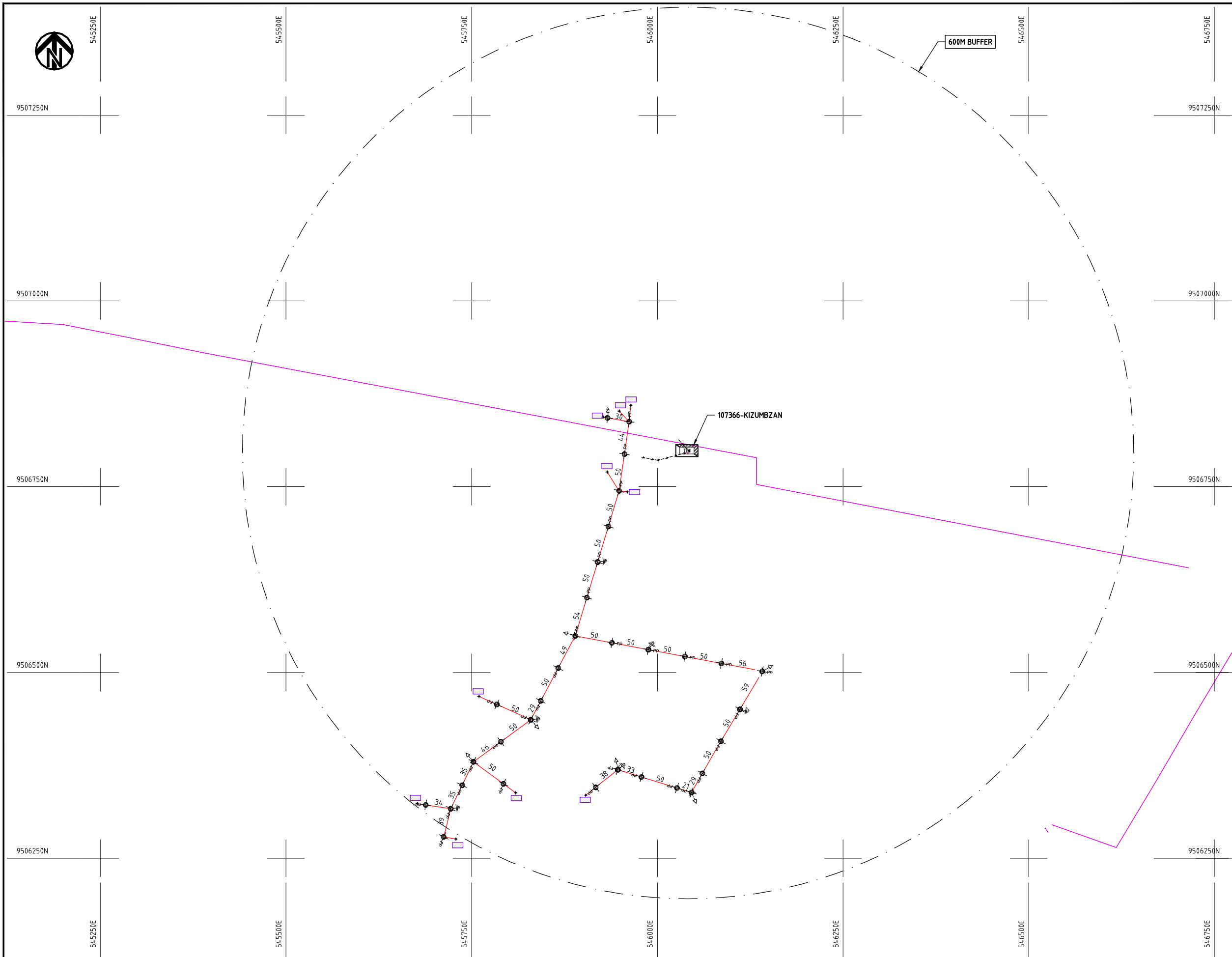
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE 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		KWL-MA-15	CHECKED BY	S.MAETA
		SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
		PROJECT SITE: 19369 - KINONDO			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
- 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		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: KWALE		KLF-MA-17	CHECKED BY	S.MAETA
		SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
		PROJECT SITE: 107366 KIZUMBZAN			DATE	10th SEP 2018





551250E

551500E

551750E

552000E

552250E

552500E

9517000N

9517000N

9516750N

9516750N

9516500N

9516500N

9516250N

9516250N

9516000N

9516000N

551250E

551500E

551750E

552000E

552250E

552500E

600M BUFFER

1119770-MAGAONI

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
- PP WOODEN ELECTRIC POLES
- CP 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: 119770 MAGAONI

DRAW. NO.

KLF-MA-18

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

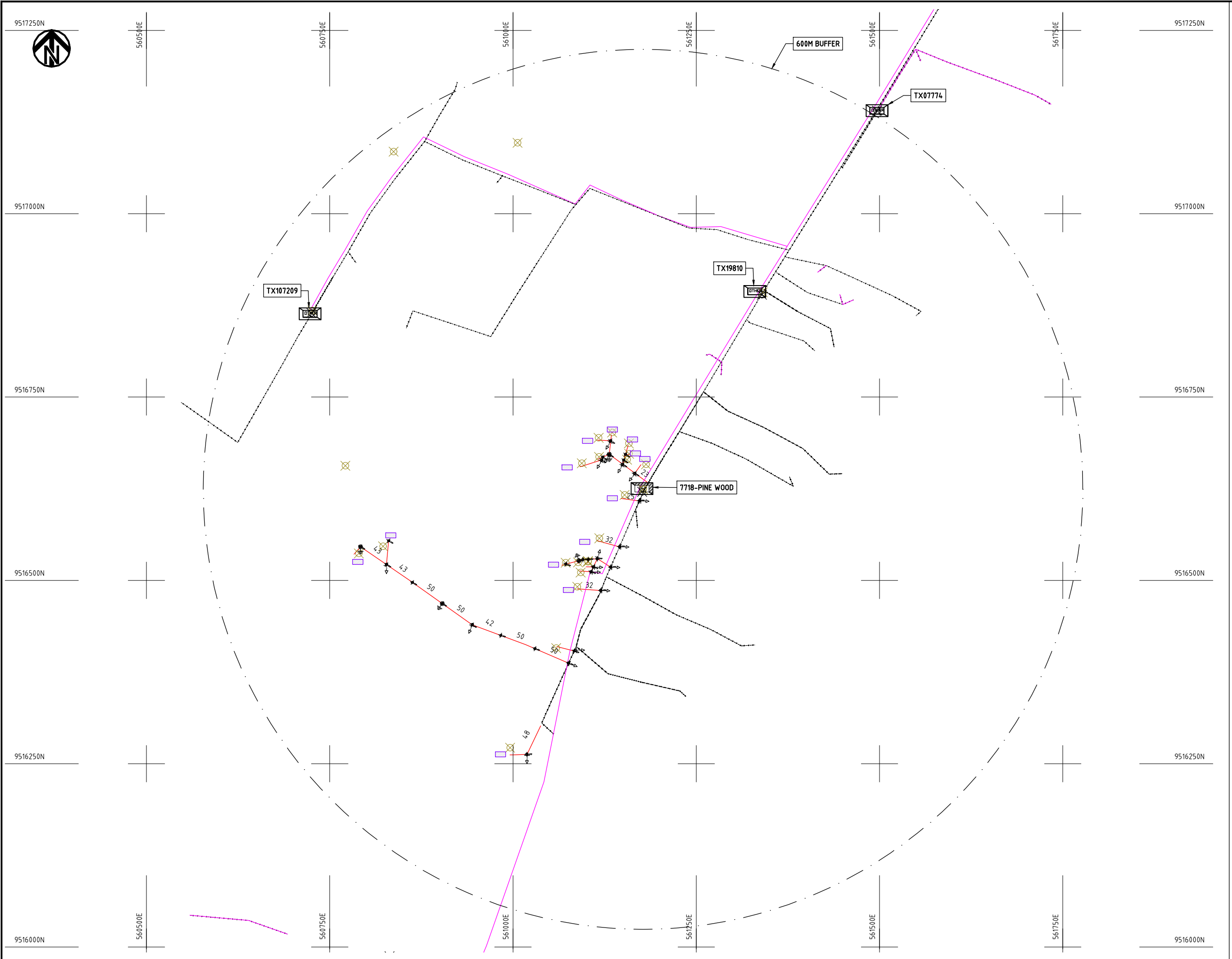
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



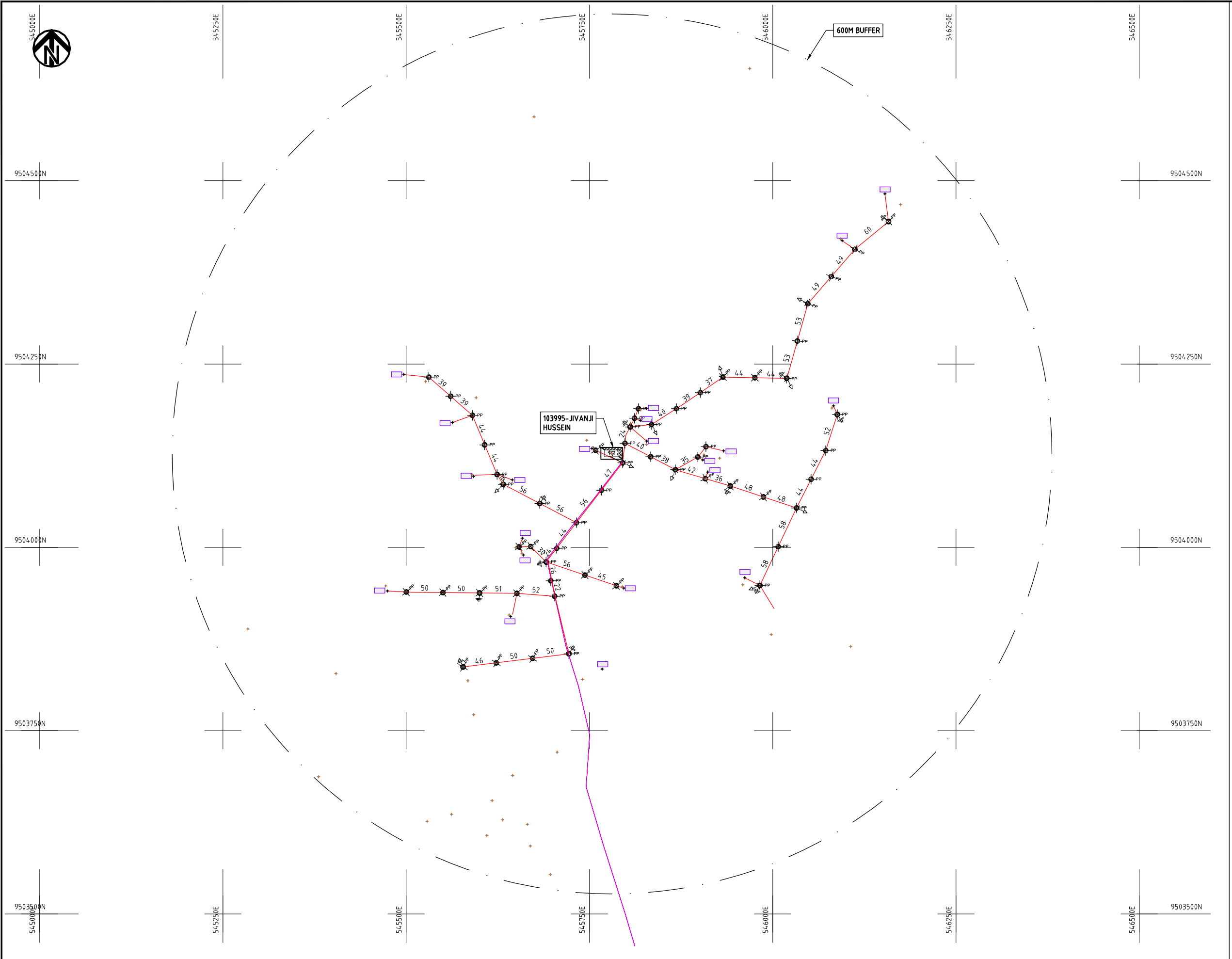
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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 5. POLES NOT SHOWN WHERE PME 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
- 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		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 07718 PINEWOOD		KWL-MA-20	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018





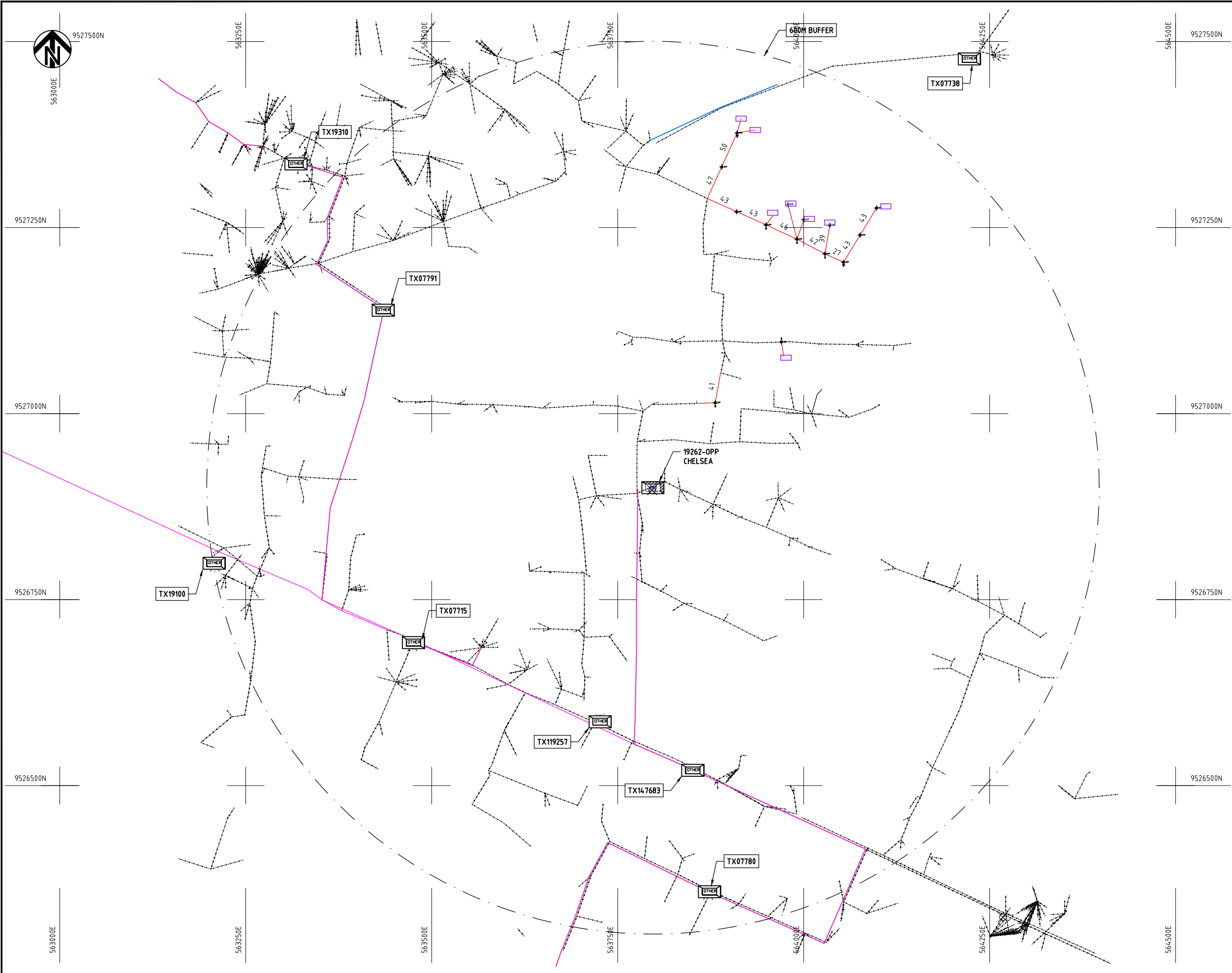
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE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



	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		KWL-MA-21	CHECKED BY	S.MAETA
		SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
		PROJECT SITE: 103995-JIVANJI HUSSEIN			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
- PP WOODEN ELECTRIC POLES
- CP 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: 19262 OPP. CHELSEA

DRAW. NO.

KWL-MA-22

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

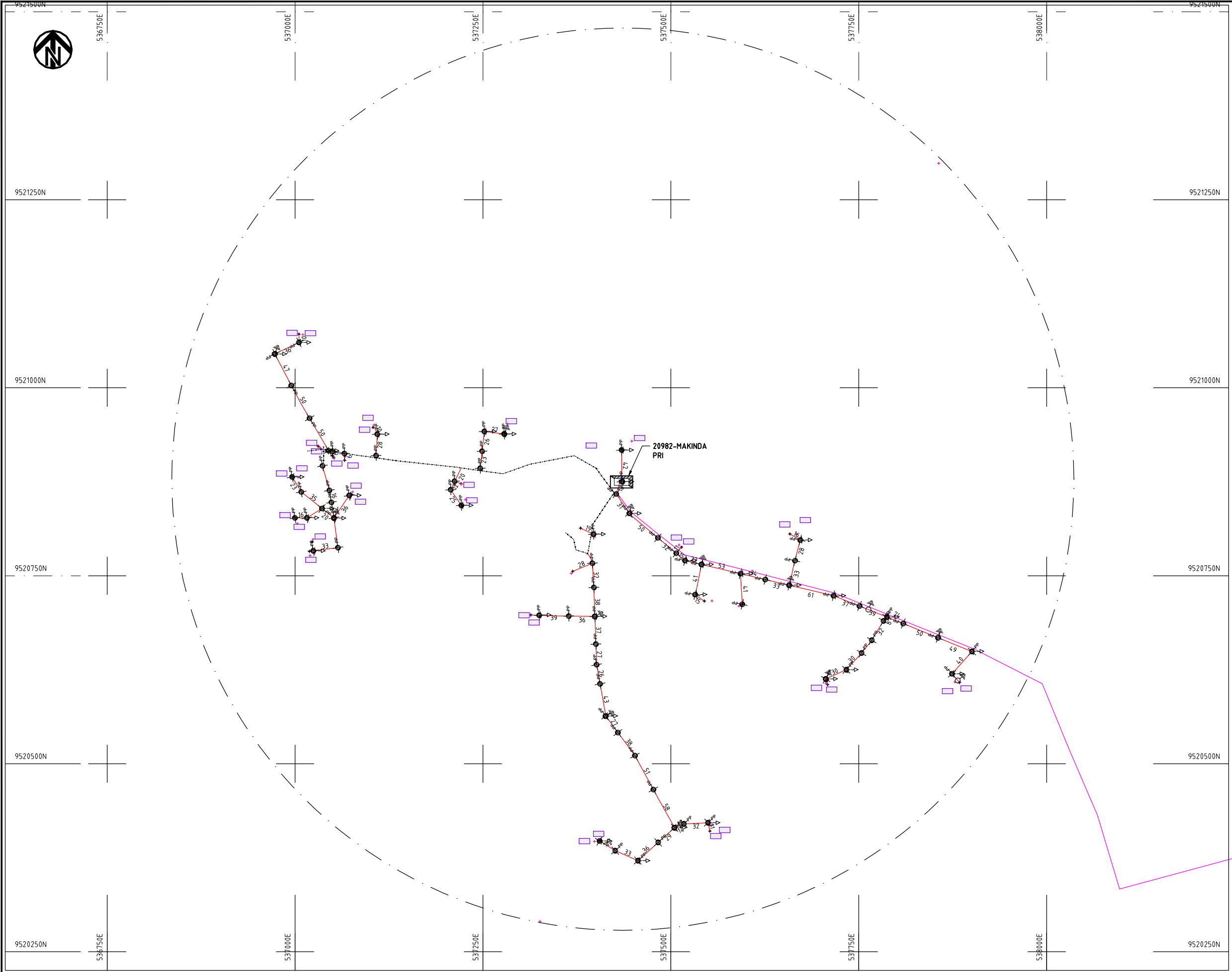
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



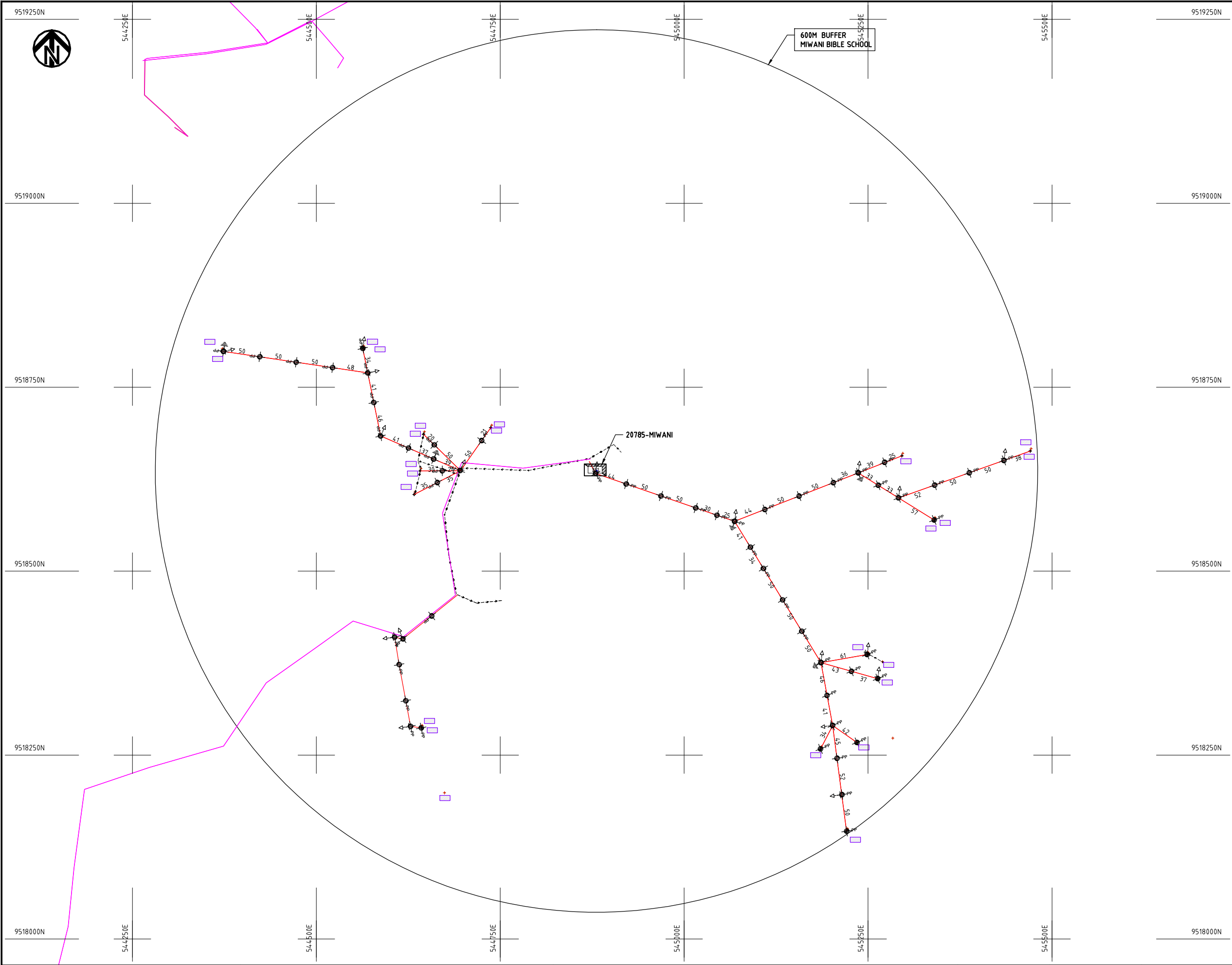
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE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



	PROJECT: 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		KLF-MA-23	CHECKED BY	S.MAETA
		SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
		PROJECT SITE: 20982-MKANDA PRIMARY			DATE	10th SEP 2018



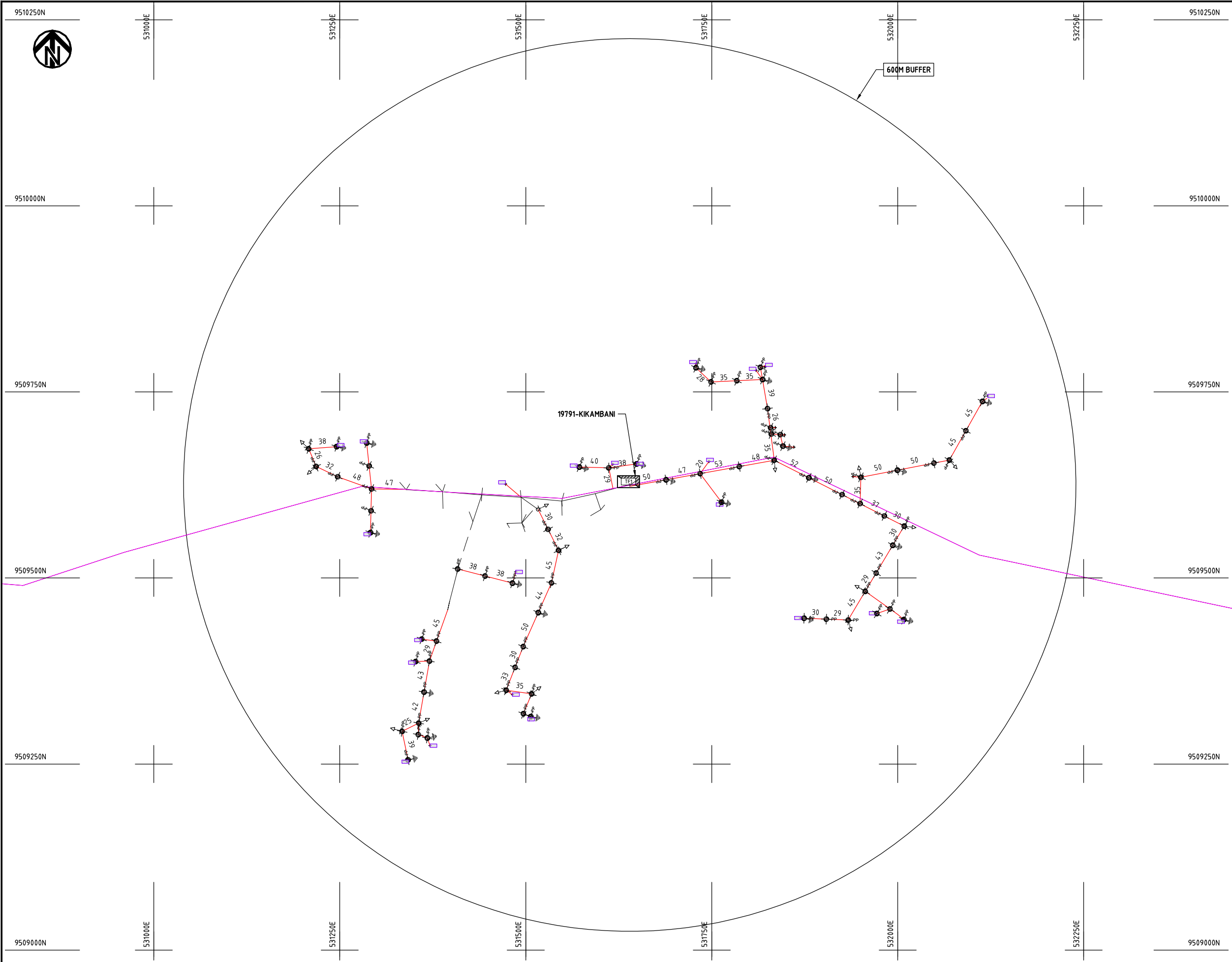


- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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- HOUSEHOLDS/ BUILDINGS
- PROPOSED 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
- PME OR LV EARTH INTERSECT FOR CLARITY

1:1000 (A3)

	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: 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.
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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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

1:1000 (A3)

	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: 19791 - KIKAMBANI		KWL-MA-25	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018



9530250N

557000E

557250E

557500E

557750E

558000E

558250E

9530250N

9530000N

9530000N

9529750N

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9529500N

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9529250N

9529250N

557000E

557250E

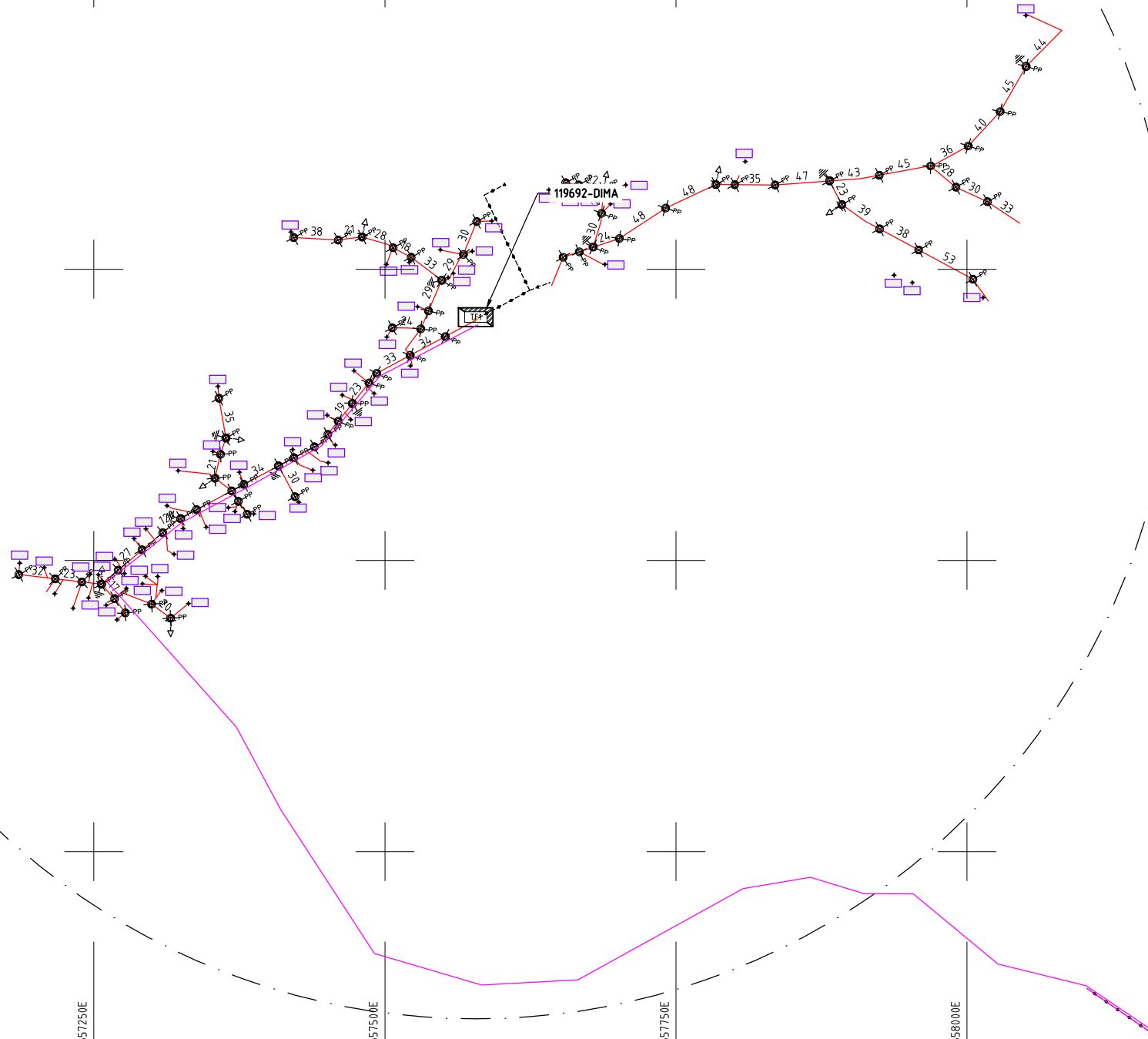
557500E

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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- 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

1:10000 (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: 119692-DIMA

DRAW. NO.

KLF-MA-26

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



535750E

536000E

536250E

536500E

536750E

537000E

952000N

9519750N

9519500N

9519250N

9519000N

535750E

536000E

536250E

536500E

536750E

537000E

952000N

9519750N

9519500N

9519250N

9519000N

600M BUFFER

20953-KWA MUSA
BORE HOLE

TX

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
- PP WOODEN ELECTRIC POLES
- CP 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: 20953 KWA MUSA BORE HOLE

DRAW. NO.

KWL-MA-27

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

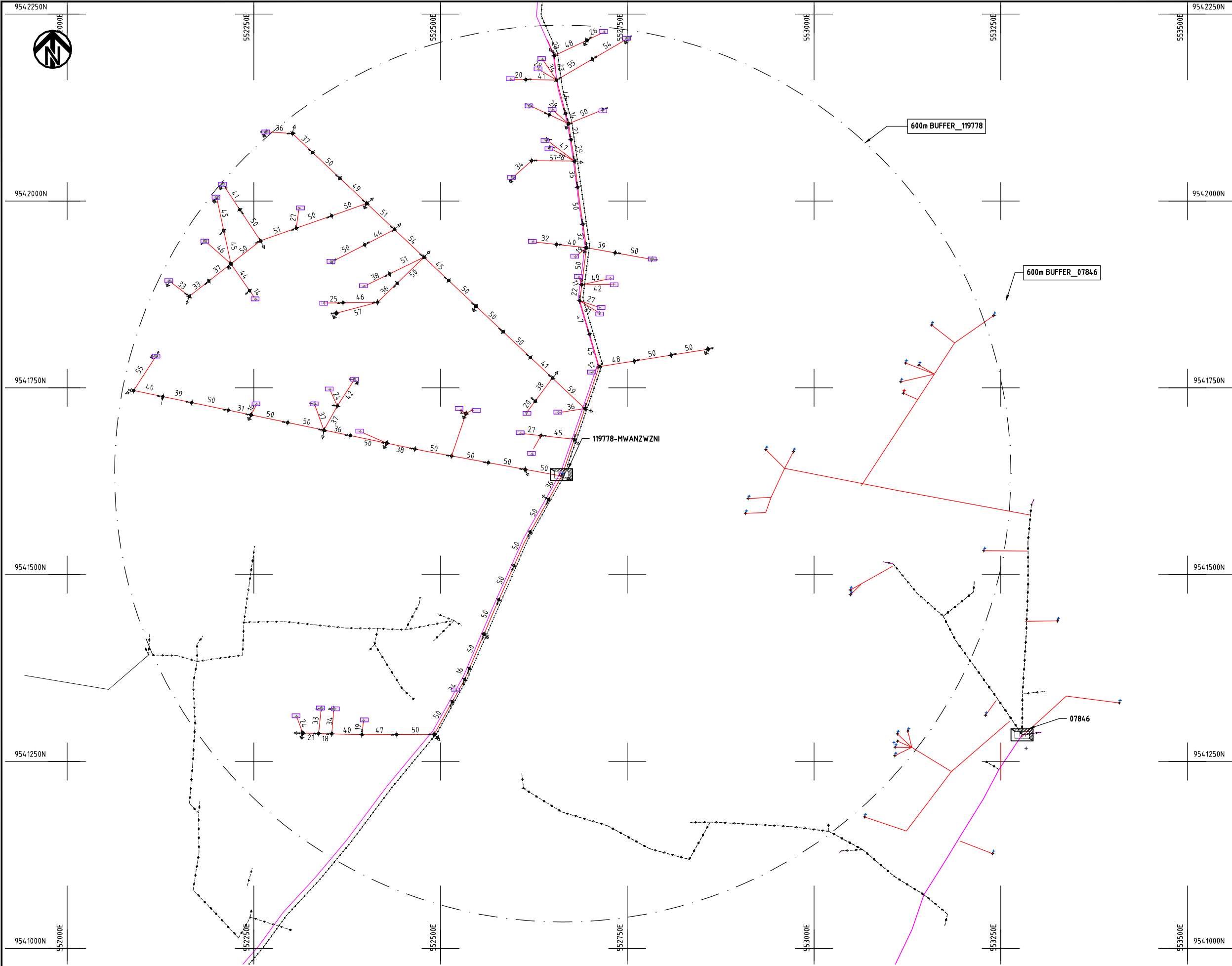
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



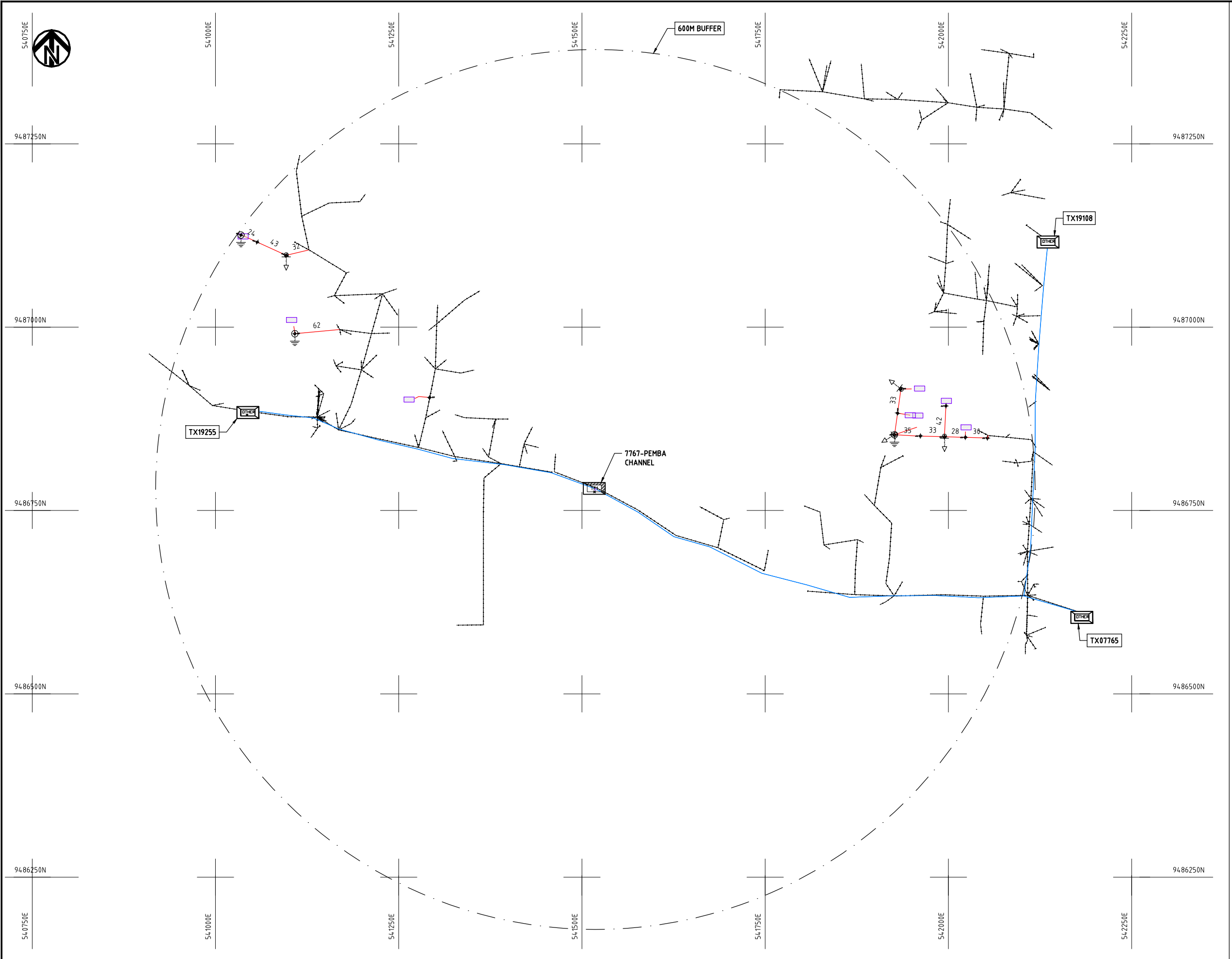
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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- HOUSEHOLDS/ BUILDINGS
- PROPOSED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



PROJECT:	DRAWING TITLE			DRAW. NO.		PREPARED BY	A.AKBAR
						CHECKED BY	S.MAETA
						APPROVED BY	Y.TANAKA
						DATE	10th SEP 2018
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA			COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 119778 - MWANZWNI	KLF-MA-28			





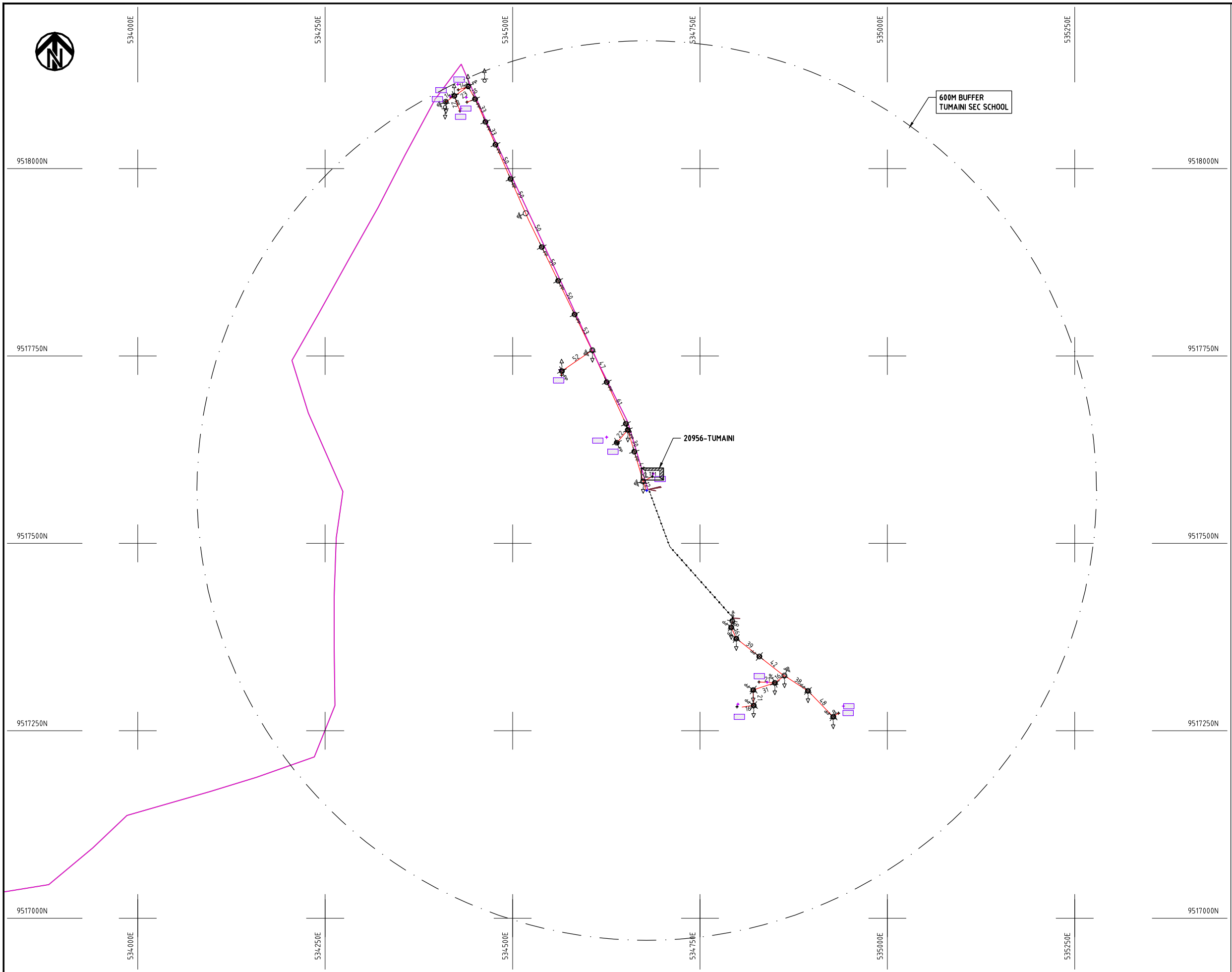
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING 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		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 07767 PEMBA CHANNEL		KWL-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.
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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

1:1000 (A3)

	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		KLF-MA-30	CHECKED BY	S.MAETA
		SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
		PROJECT SITE: 20956 TUMAINI			DATE	10th SEP 2018





531000E

531250E

531500E

531750E

532000E

532250E

9530250N

9530250N

9530000N

9530000N

9529750N

9529750N

9529500N

9529500N

9529250N

9529250N

531000E

531250E

531500E

531750E

532000E

532250E

600m BUFFER_103673

103673-MWAMT0B0
PRI**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: 103673 - MWAMT0B0 PRIMARY

DRAW. NO.

KLF-MA-31

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

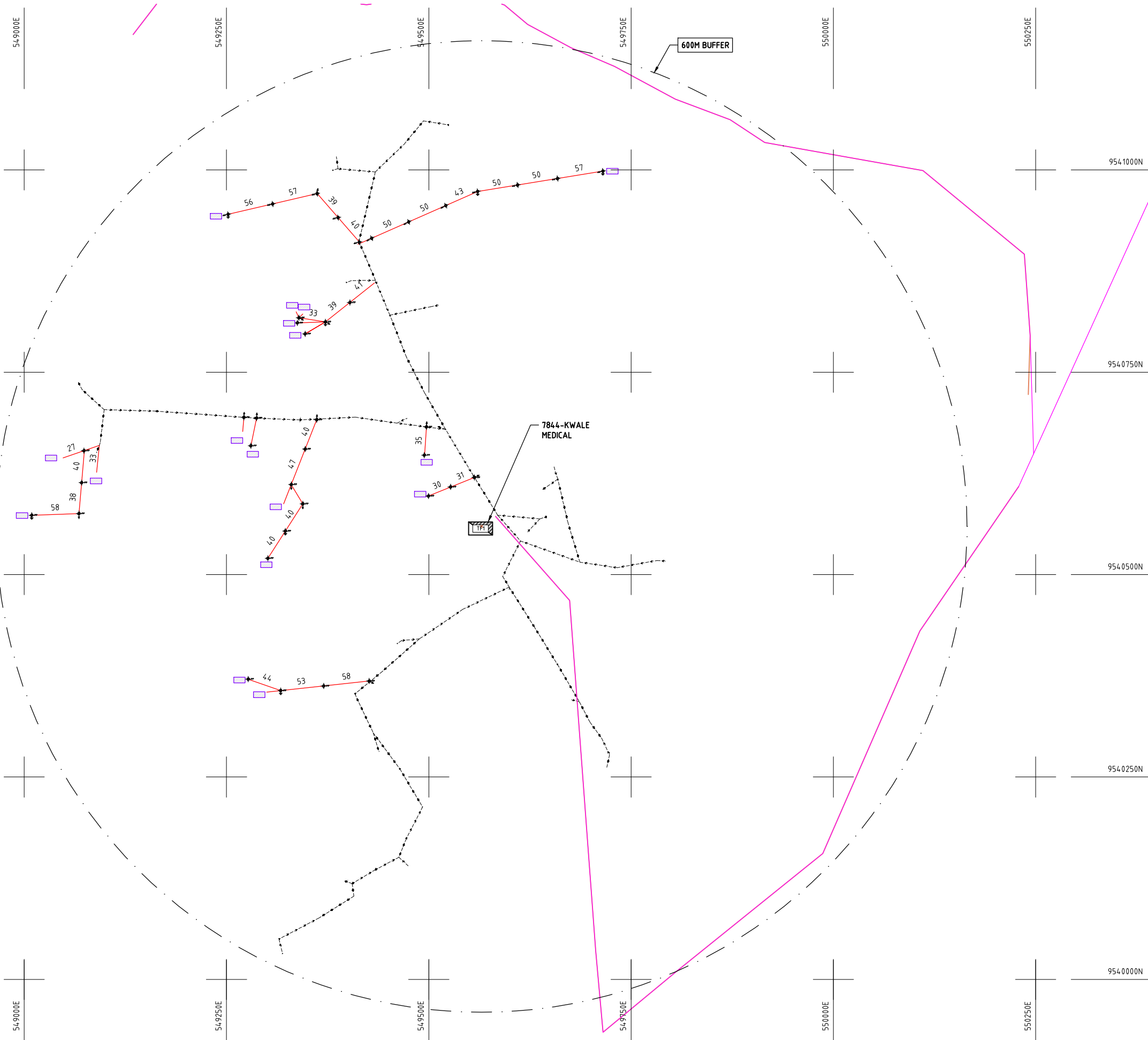
Y.TANAKA

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.

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





563250E

563500E

563750E

564000E

564250E

564500E

9536500N

9536500N

9536250N

9536250N

9536000N

9536000N

9535750N

9535750N

9535500N

9535500N

563250E

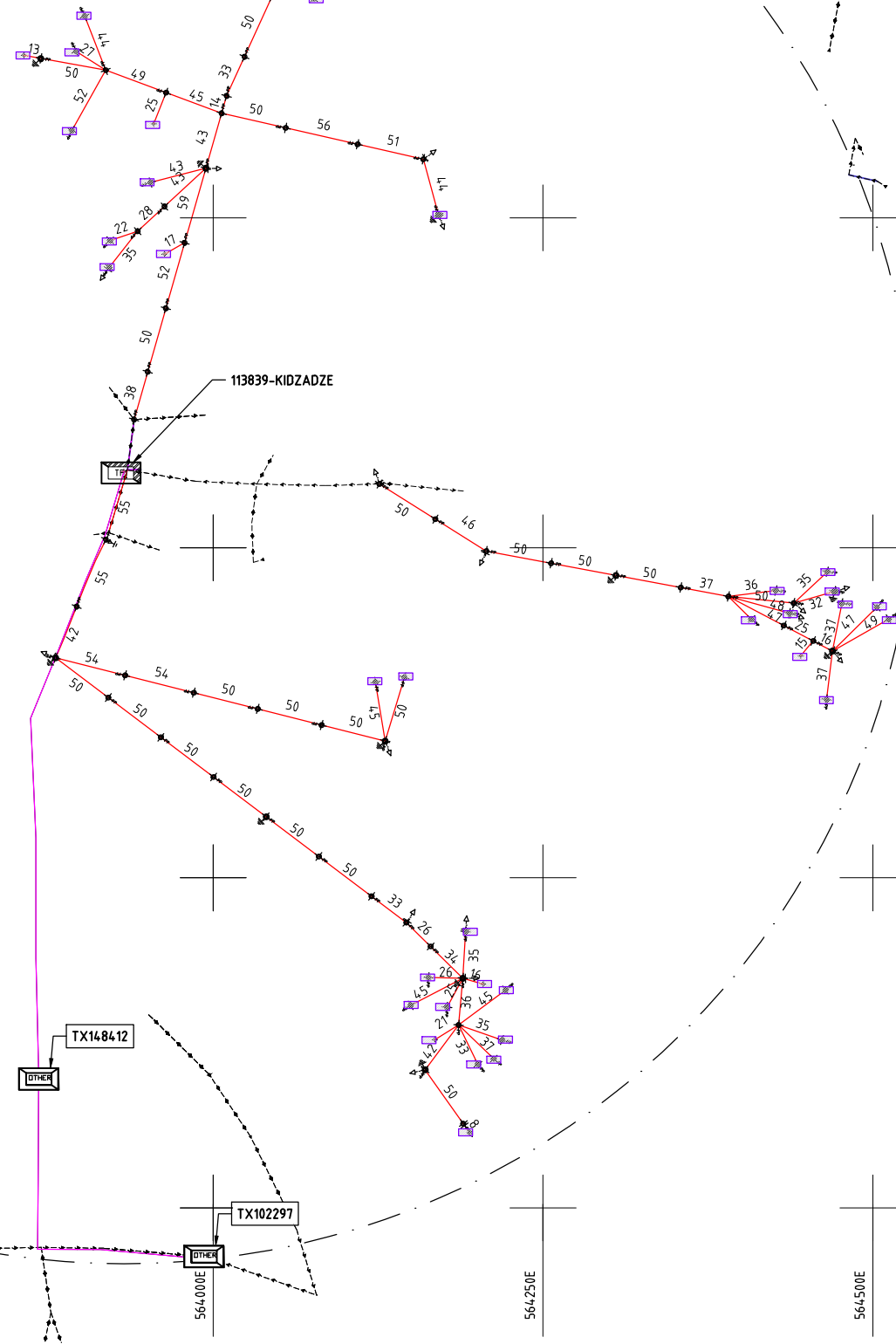
563500E

563750E

564000E

564250E

564500E

TX113840
OTHERTX148412
OTHERTX102297
OTHERTX07816A
OTHER**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: 113839 - KIDZADZE

DRAW. NO.

KLF-MA-33

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

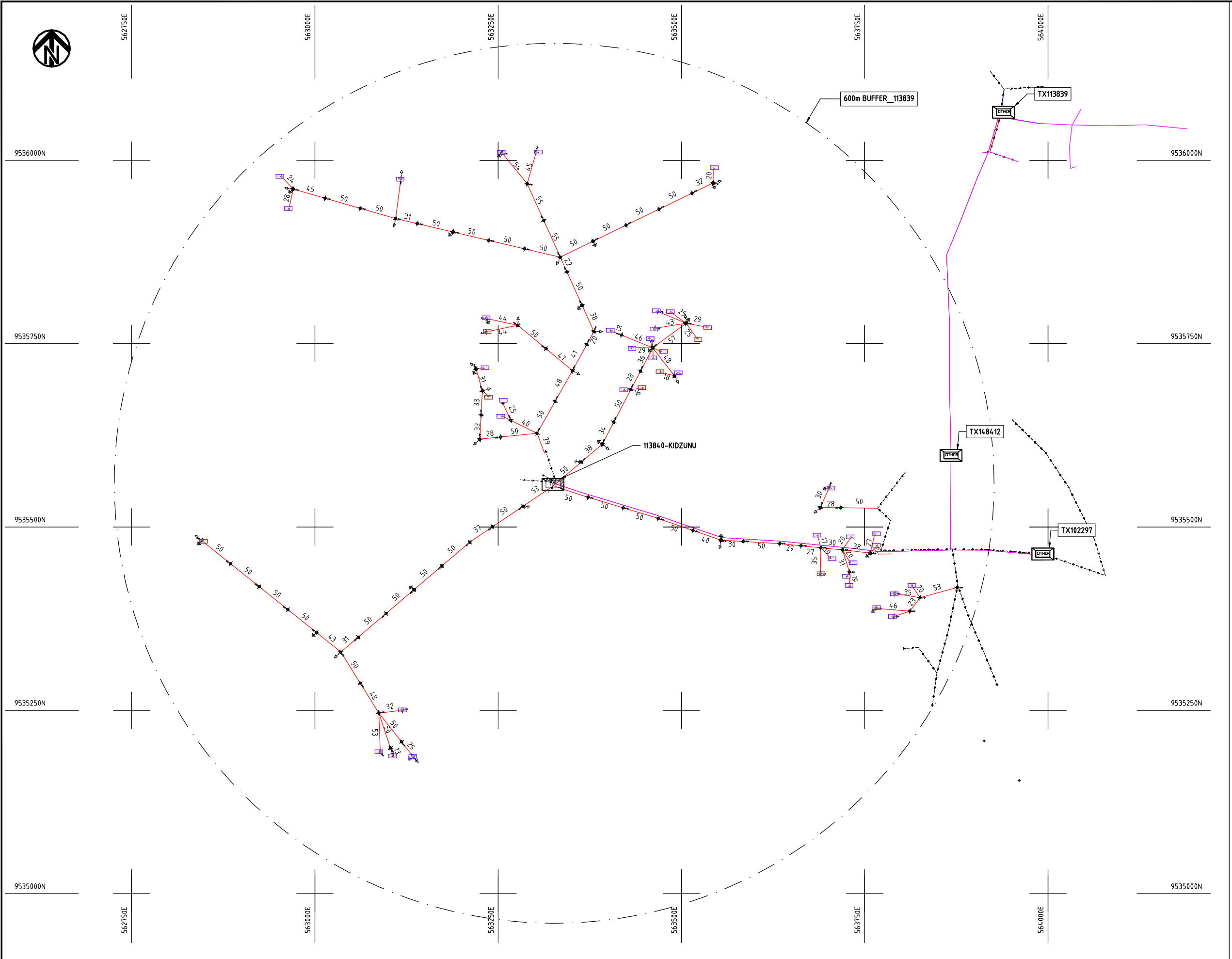
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



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

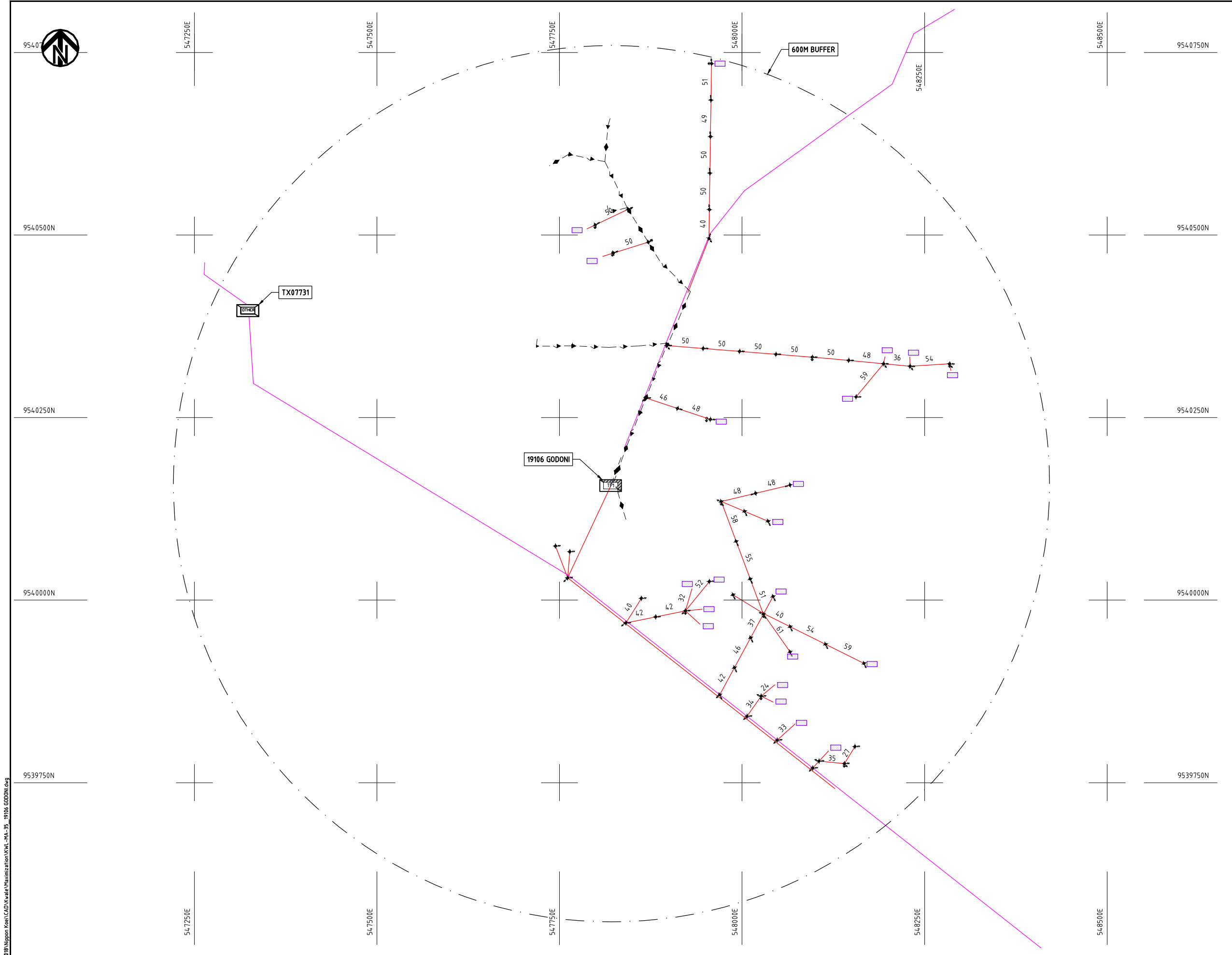
STAY



	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		KLF-MA-34	CHECKED BY	S.MAETA
		SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
		PROJECT SITE: 113840 - KIDZUNU			DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-35_19106 GODONI.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

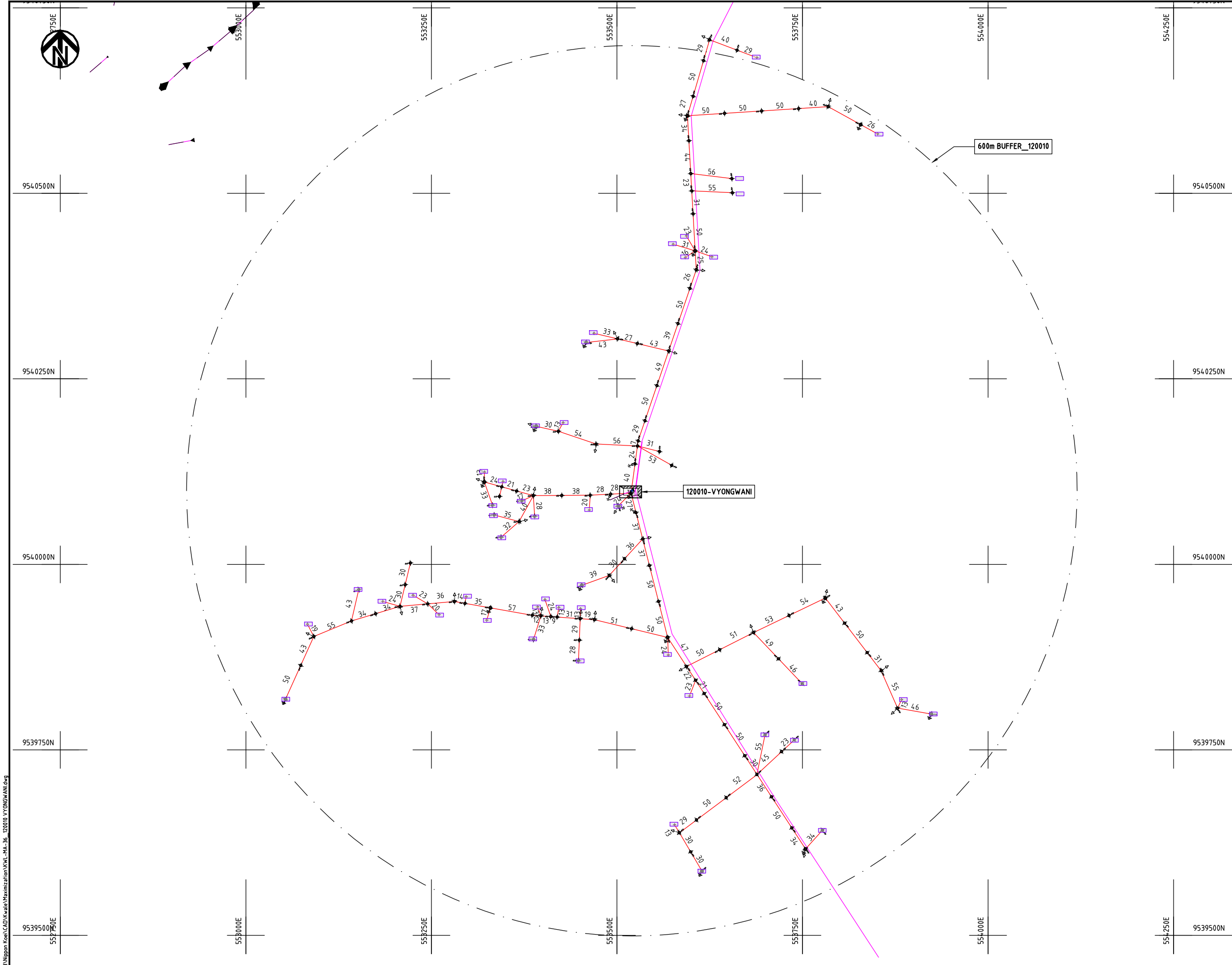
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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

SCALE 1:5000 (A3)

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	KWL-MA-35	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	19106 GODONI KWALE		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

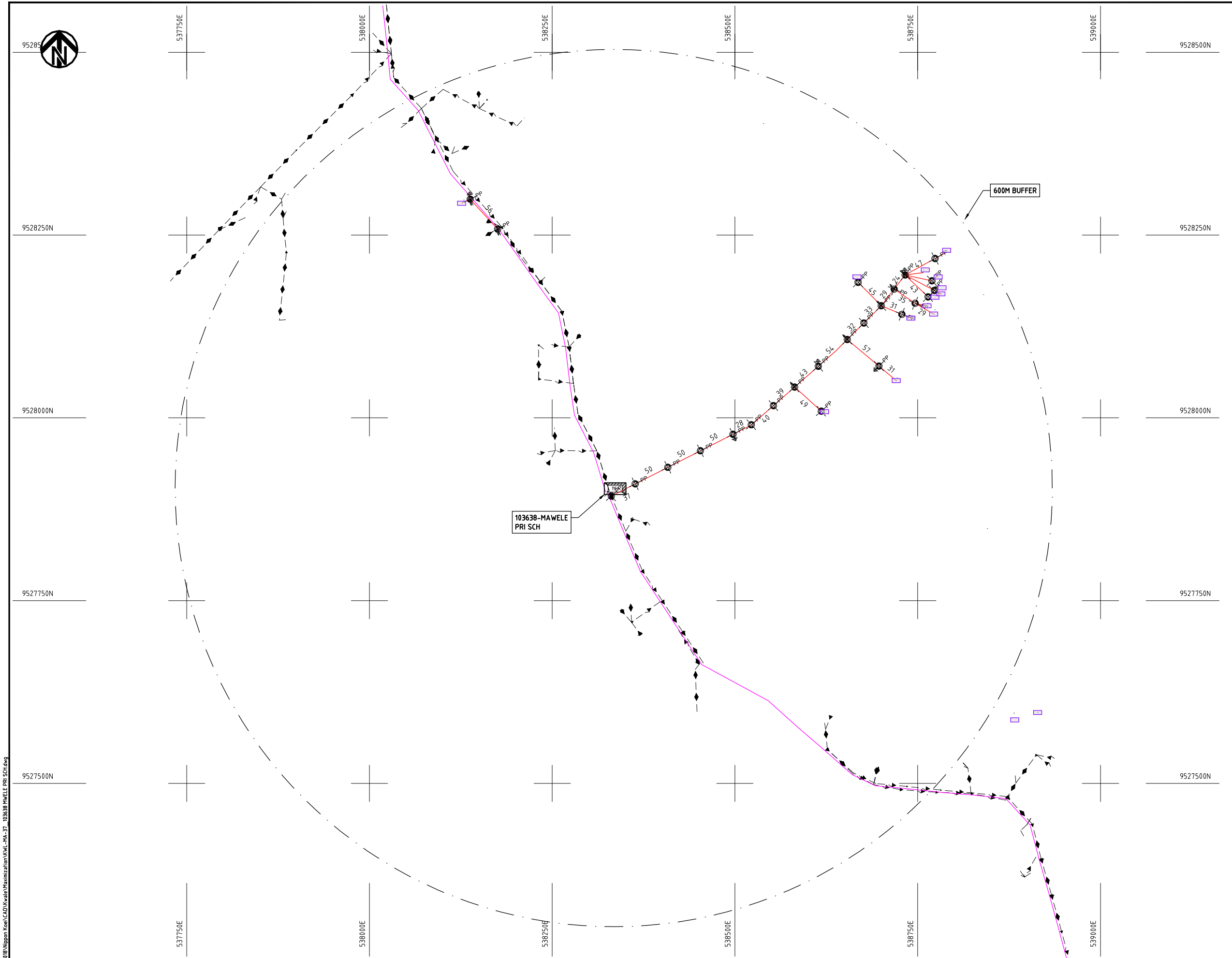
SCALE 1: 5000 50 0 50 100 150 200 250m (A3)

Cad File No. D:\Frank-Proj 2018\Nippon Koei\CAD\Kwale\Maximization\Kw-Ma-36 120010 VYONGWANI.dwg

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	KLF-MA-36	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	120010 - VYONGWANI		DATE	10th SEP 2018



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

- 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 50 0 50 100 150 200 250m (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: 103638 MWELE PRI SCH

DRAW. NO.

KWL-MA-37

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

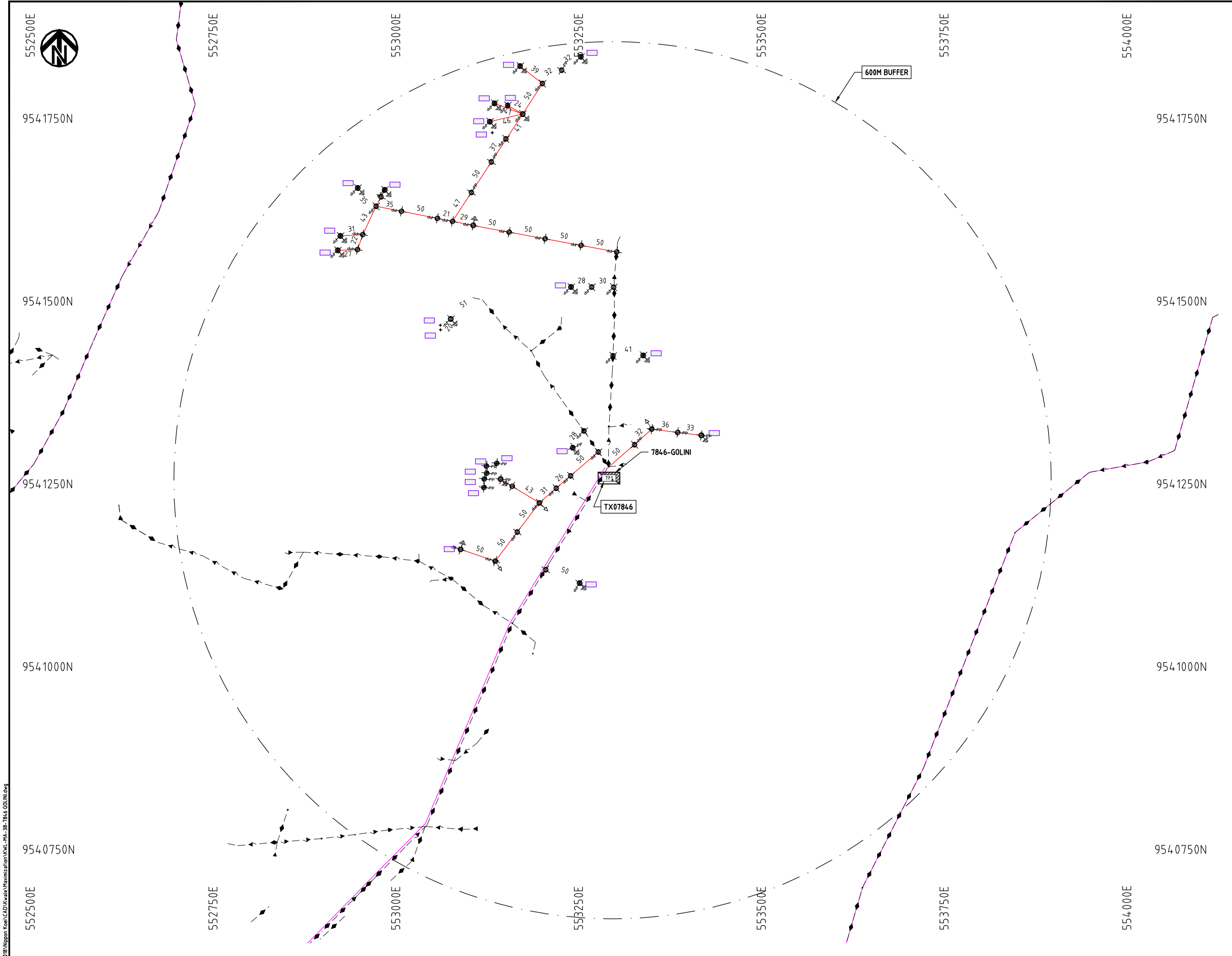
Y.TANAKA

DATE

10th SEP 2018

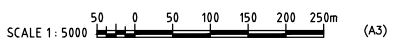


NIPPON KOEI CO., LTD



- 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.

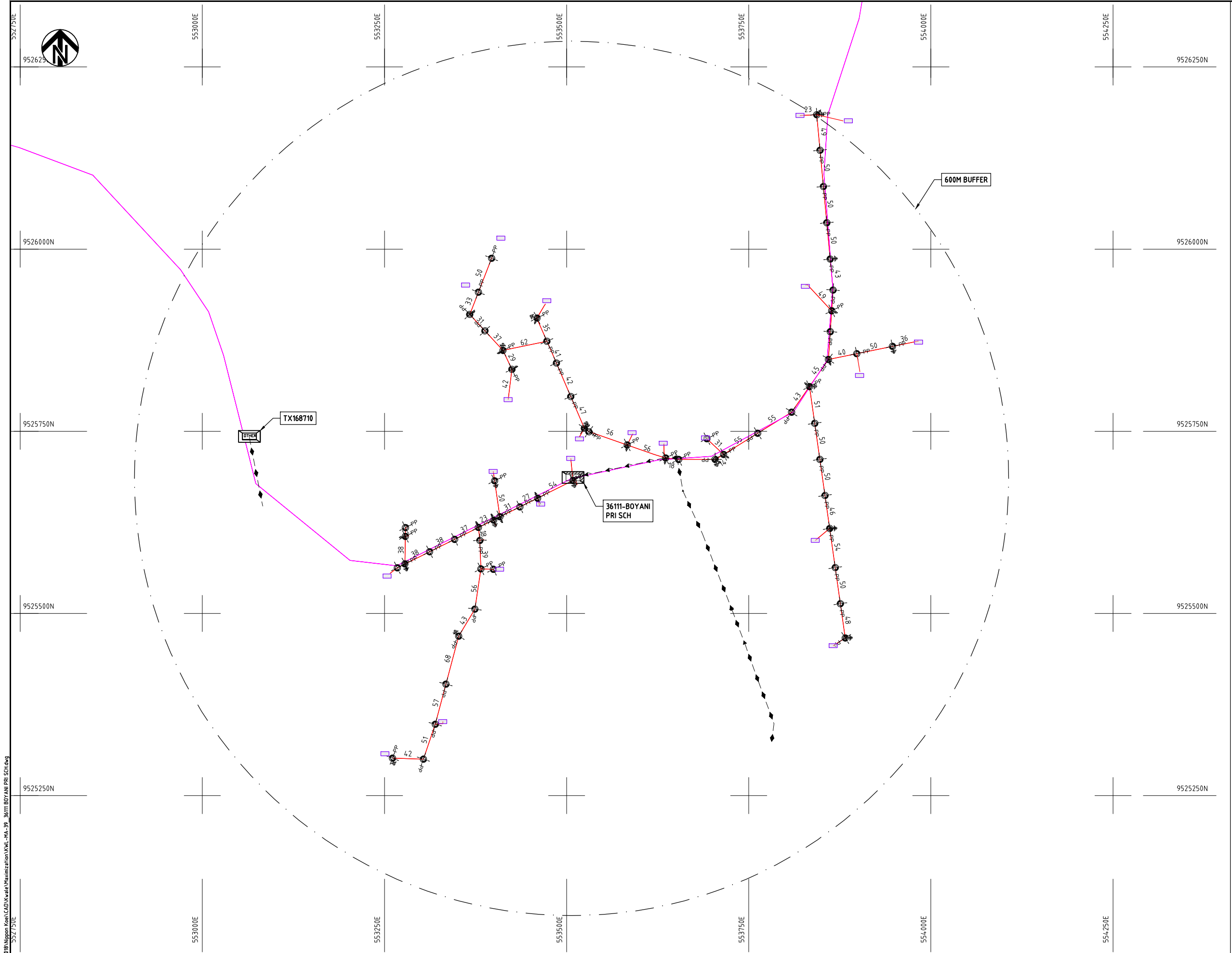
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER (TF1)
 - EXTENSION TRANSFORMER (TF2)
 - OTHER EXISTING TRANSFORMER (OTHER)
 - WOODEN ELECTRIC POLES (PP)
 - CONCRETE ELECTRIC POLES (CP)
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY



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

PROJECT:	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 07846 - GOLINI		KWL-MA-38	CHECKED BY	S.MAETA
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA				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

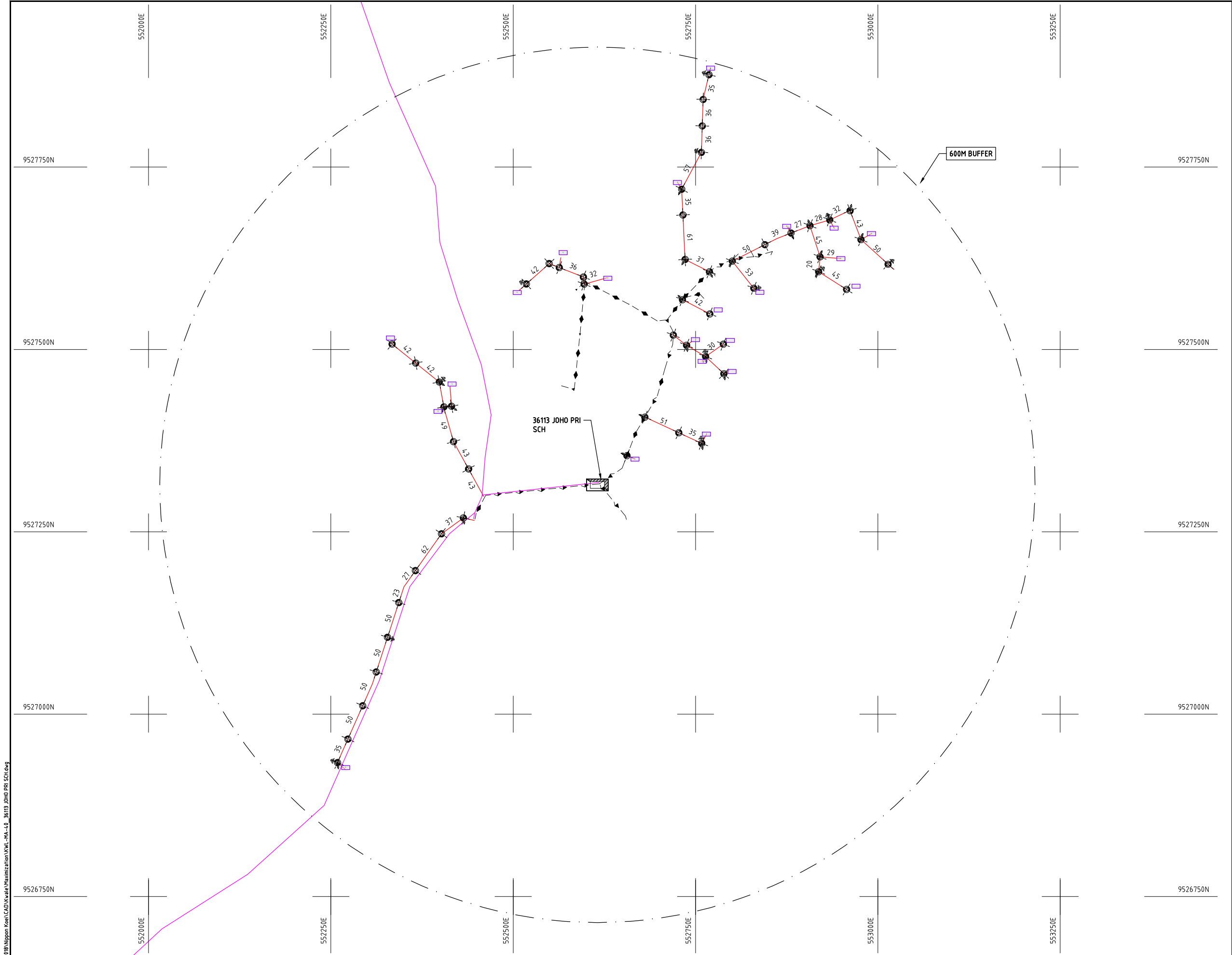


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PROJECT:	DRAWING TITLE				DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 36111 BOYANI PRIMARY SCHOOL				KWL-MA-39	CHECKED BY	S.MAETA
						APPROVED BY	Y.TANAKA
						DATE	10th SEP 2018



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
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 50 0 50 100 150 200 250m (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: 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



NIPPON KOEI CO., LTD

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



9519000N

9518750N

9518500N

9518250N

9518000N

545750E

546000E

546250E

546500E

546750E

547000E

9519000N

9518750N

9518500N

9518250N

9518000N

545750E

546000E

546250E

546500E

546750E

547000E

600M BUFFER

19363
KWA D.O.

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: 19363 - KWA D.O.

DRAW. NO.

KWL-MA-41

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

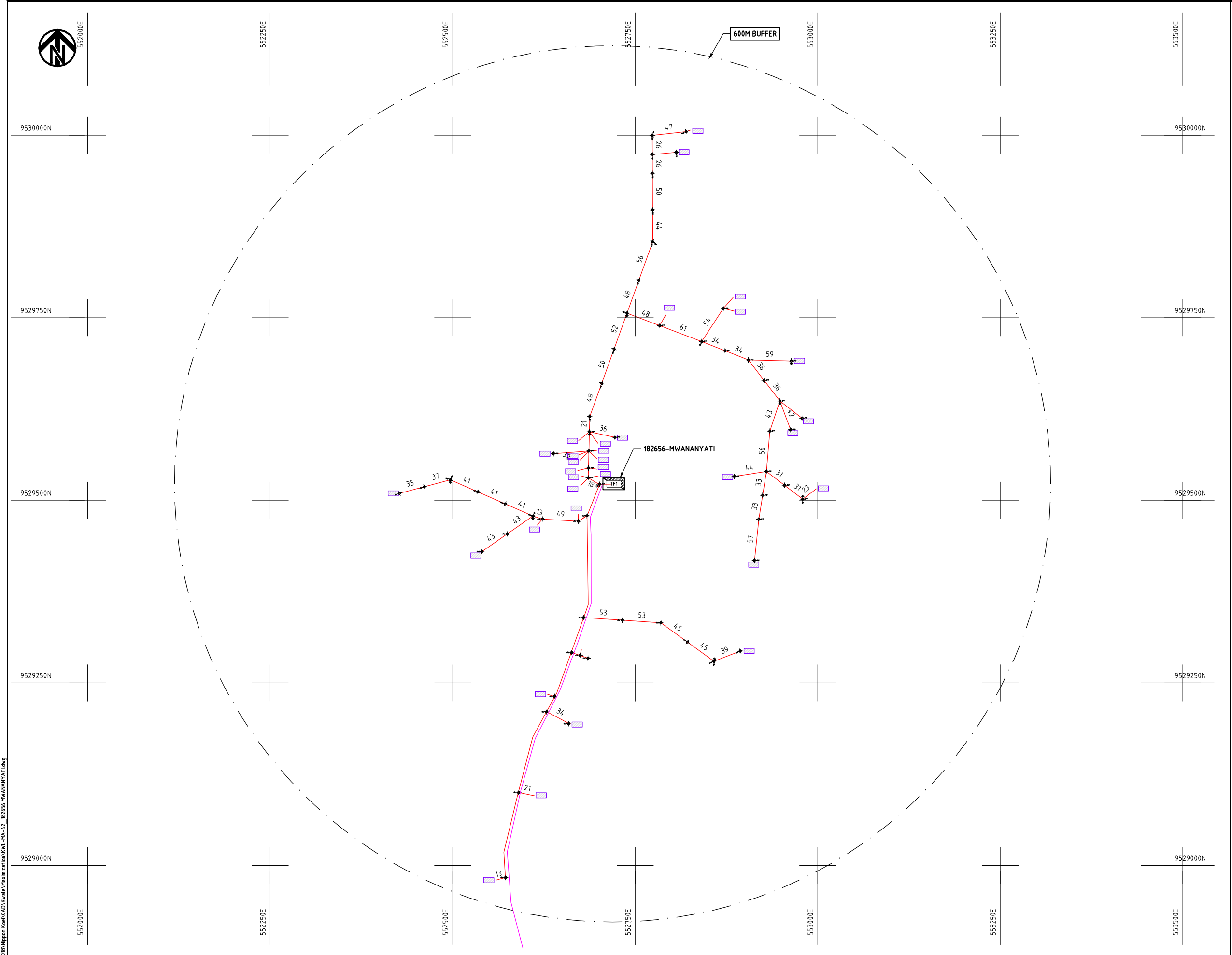
Y.TANAKA

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
- 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: 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





548250E

548500E

548750E

549000E

549250E

549500E

9524250N

9524250N

9524000N

9524000N

9523750N

9523750N

9523500N

9523500N

9523250N

9523250N

548250E

548500E

548750E

549000E

549250E

549500E

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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP 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: 107373 FOOT PRT

DRAW. NO.

KLF-MA-45

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\Kw-Ma-46_124552-NGAURO PRIMARY SCH.dwg



9533500N

525000E

525250E

525500E

525750E

526000E

526250E

9533500N

9533250N

9533250N

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526000E

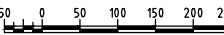
526250E

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: KWALE
SCHEME: MAXIMIZATION
PROJECT SITE: 124552 - NGAURO PRI. SCH00L

DRAW. NO.

KLF-MA-46

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

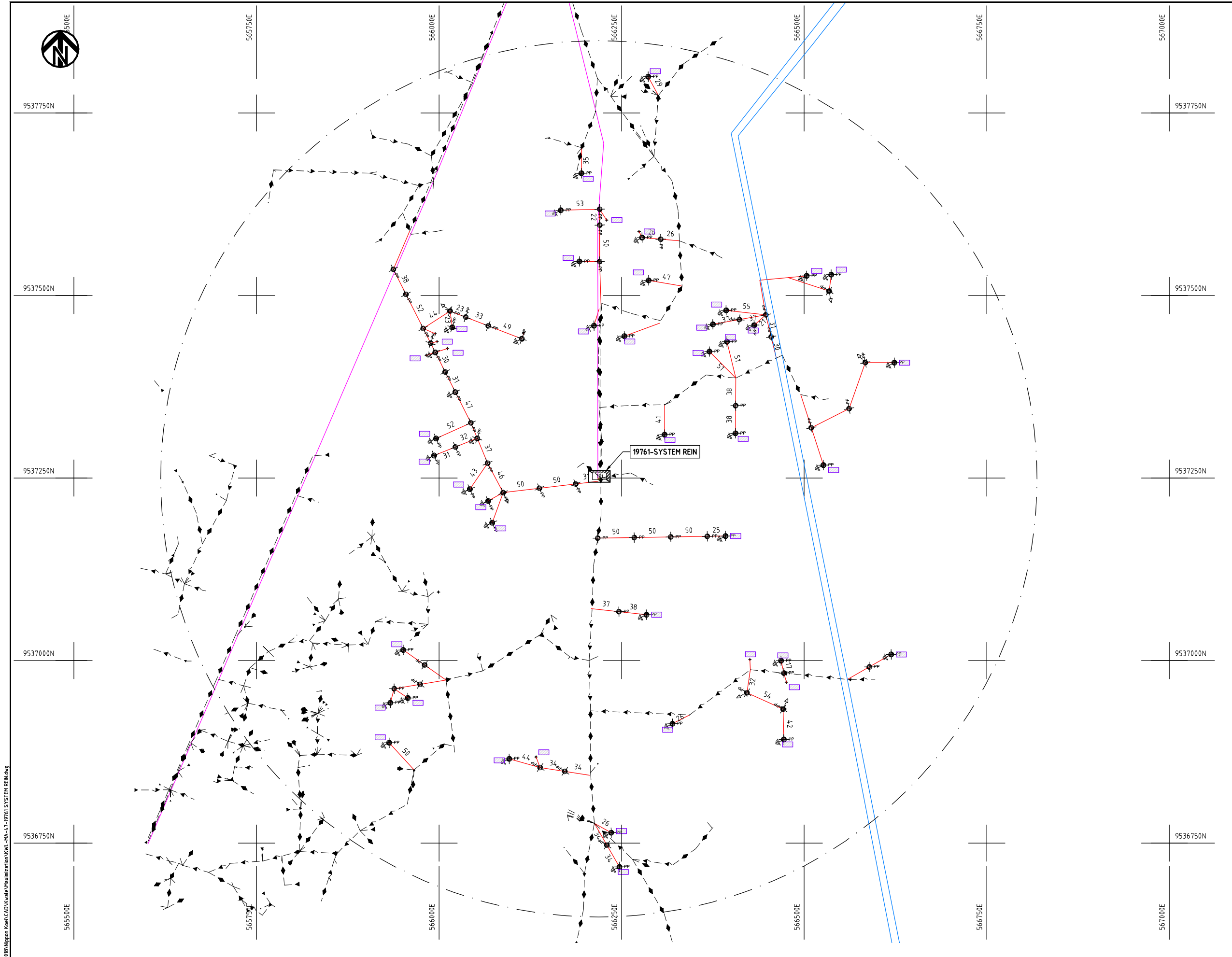
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-47-19761 SYSTEM REIN.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
- 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: KWALE
SCHEME: MAXIMIZATION
PROJECT SITE: 19761 - SYSTEM REIN

DRAW. NO.

KWL-MA-47

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

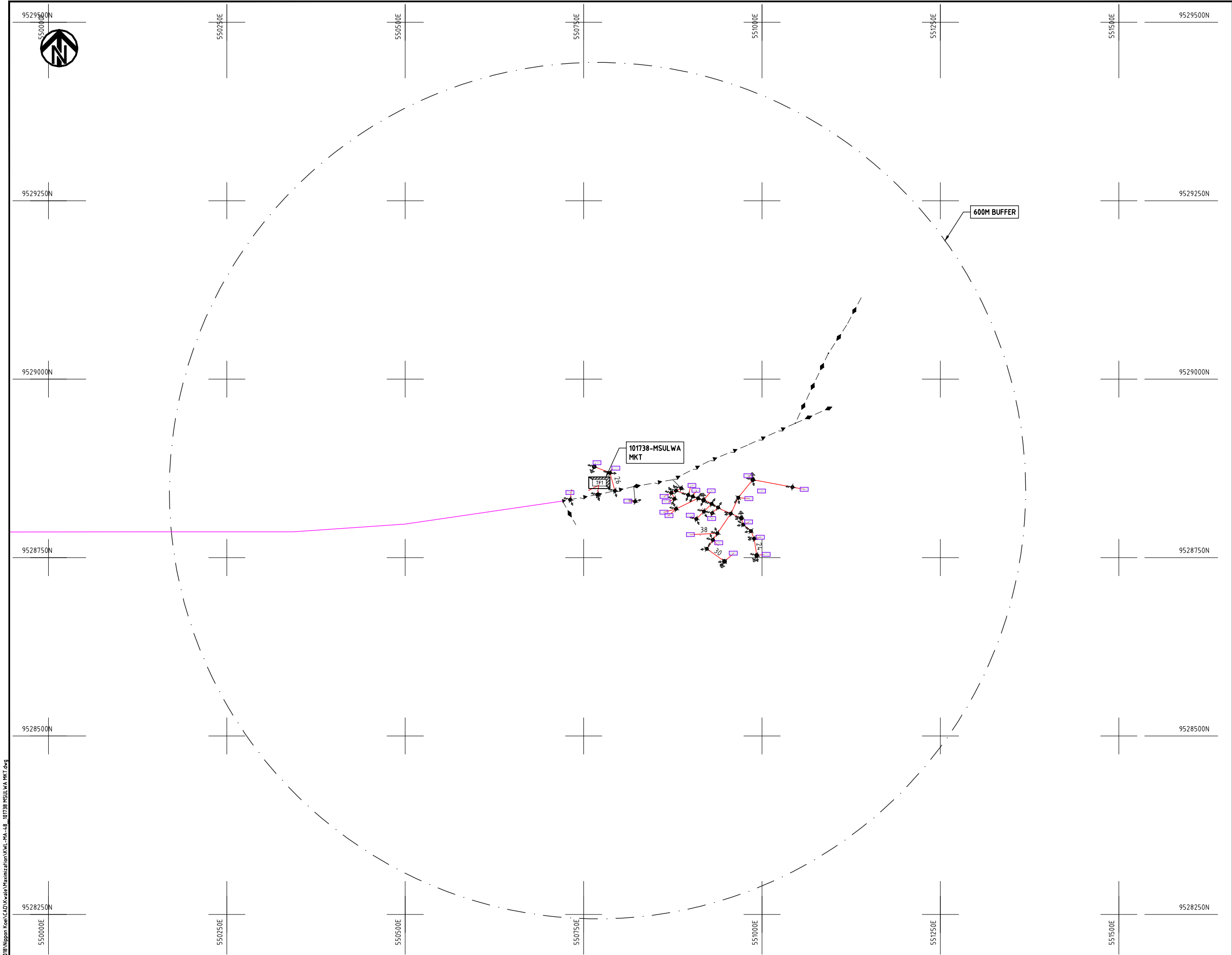
Y.TANAKA

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
 - PP WOODEN ELECTRIC POLES
 - CP CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

SCALE 1 : 5000 (A3)

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-48_101738 MSULWA MKT.dwg

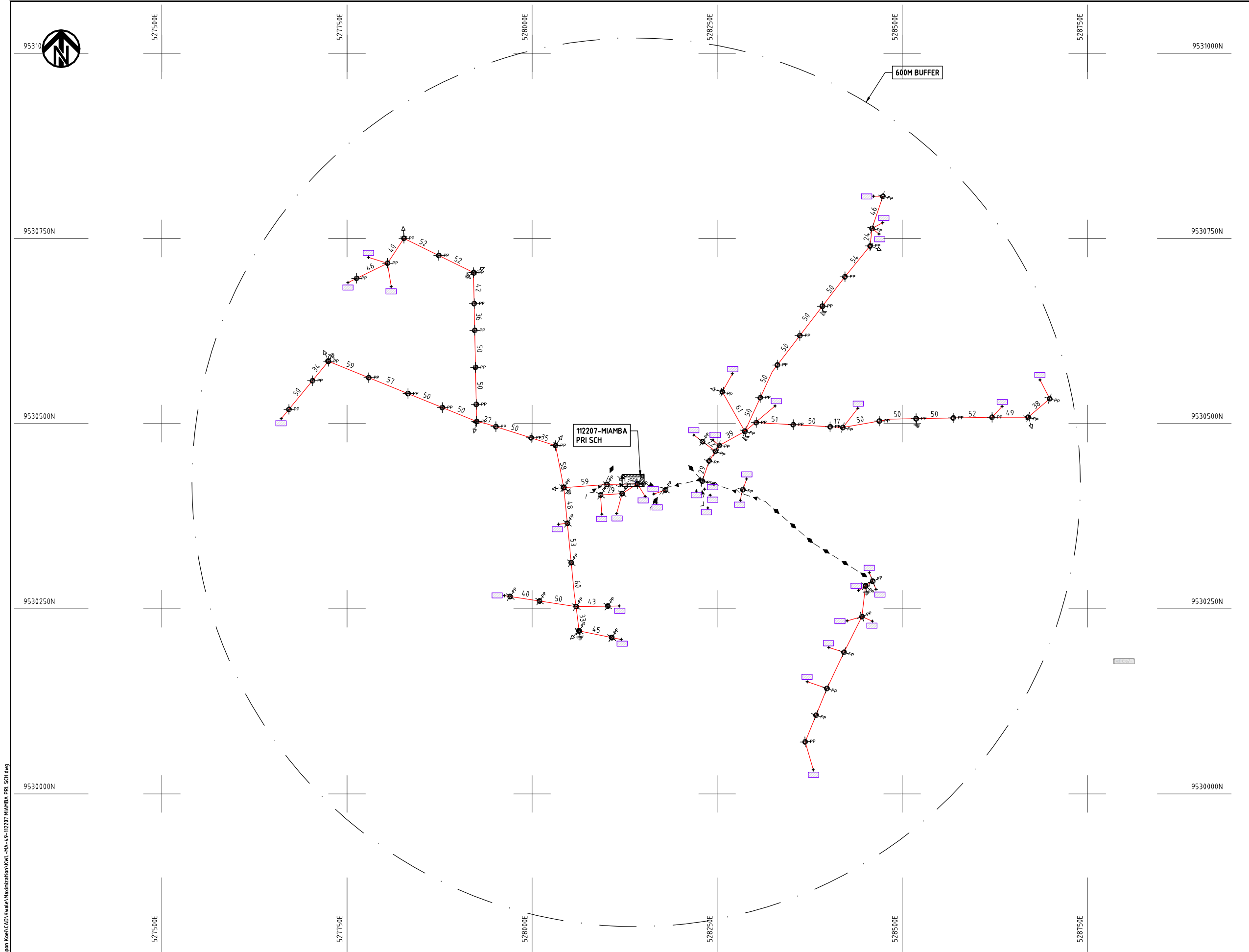
PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE
COUNTY: KWALE
SCHEME: MAXIMIZATION
PROJECT SITE: 101738 MSULWA MKT

DRAW. NO.	PREPARED BY	A.AKBAR
KWL-MA-48	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-49-112207 MIAMBA PRI. 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.

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: 112207 MIAMBA PRI. SCH.

DRAW. NO.

KWL-MA-49

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

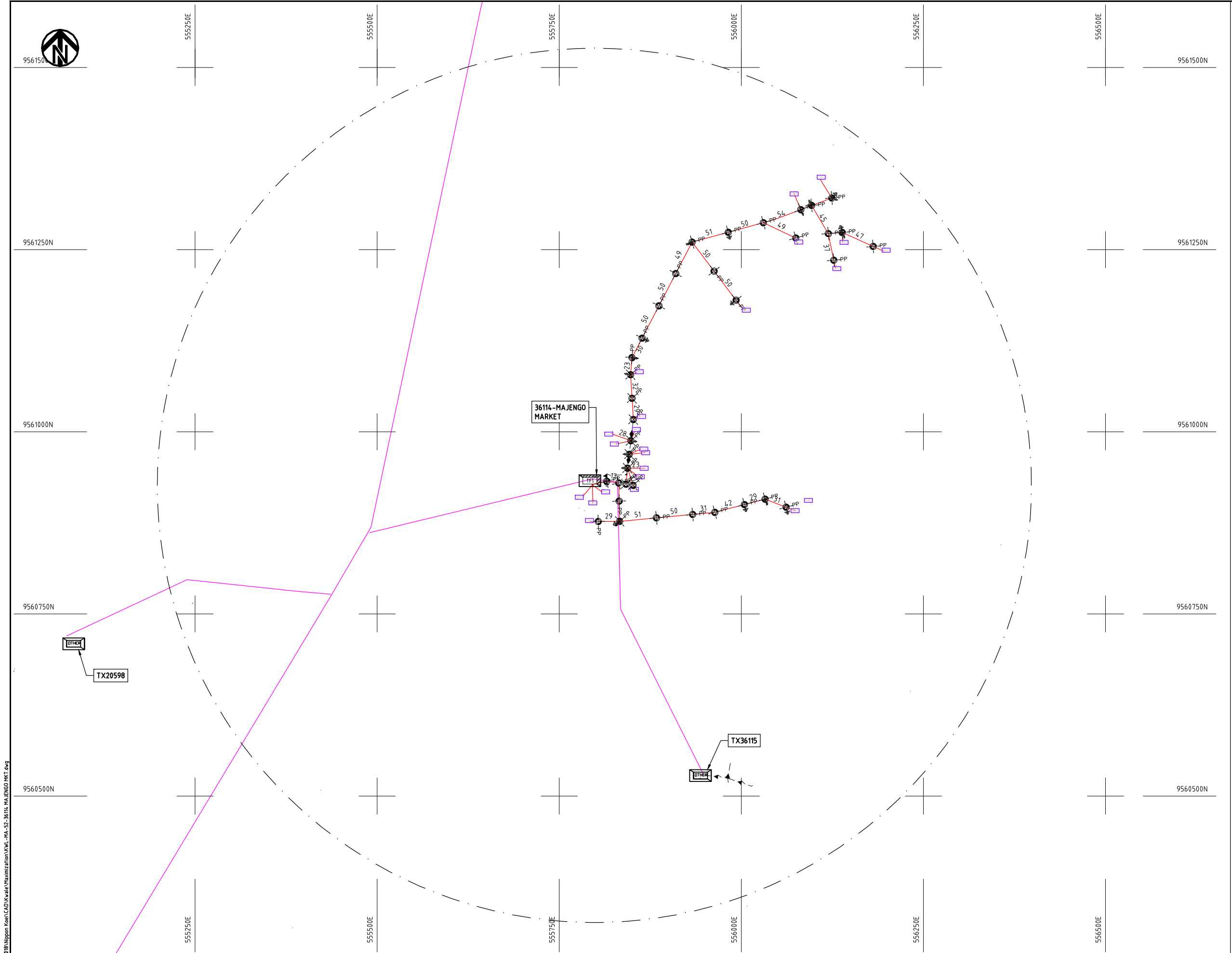
Y.TANAKA

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

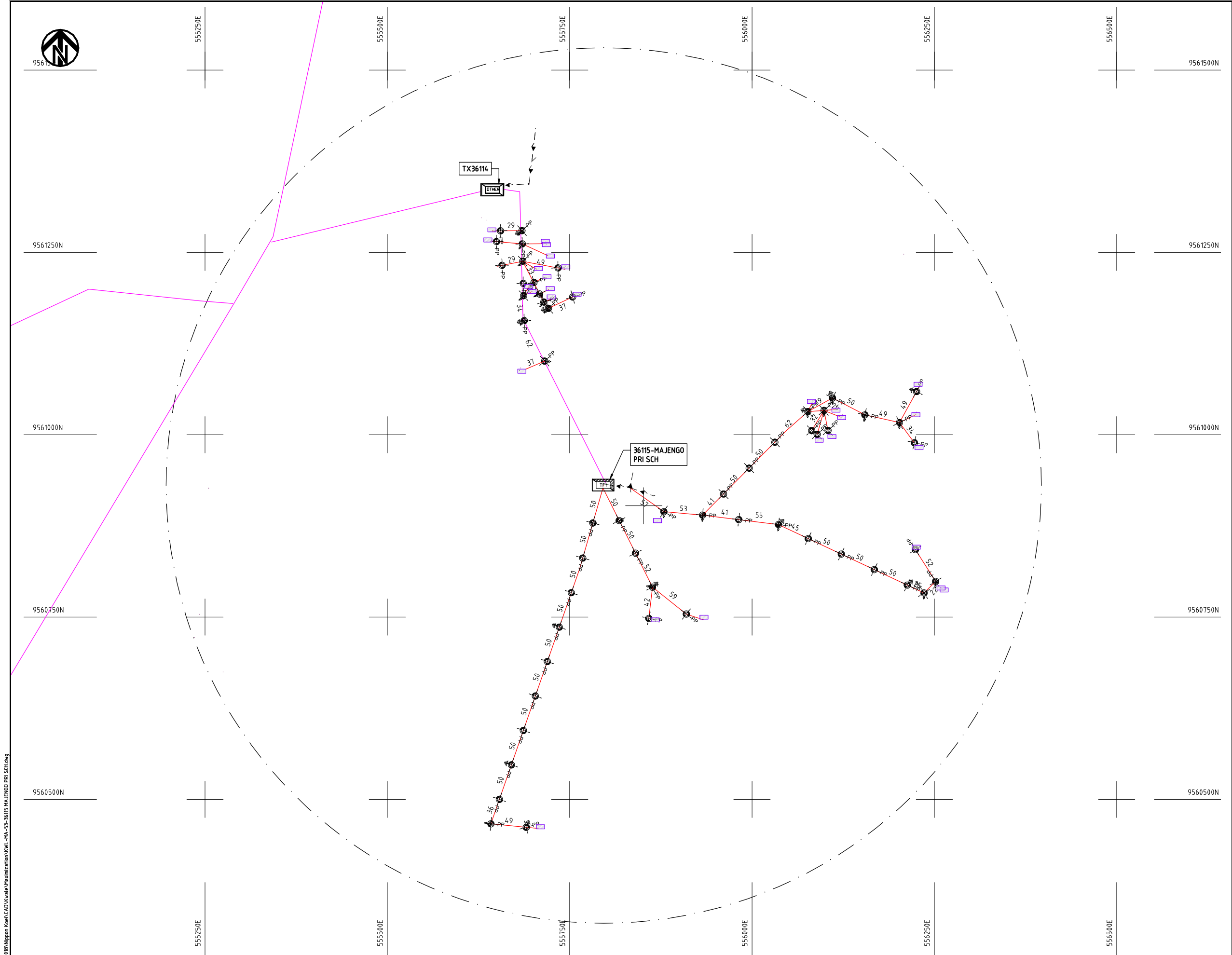


Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-52-36114-MAJENGO MKT.dwg

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: 36114 MAJENGO MKT		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-53-36115 MAJENGO PRI 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

- 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: 36115 MAJENGO PRY SCH

DRAW. NO.

KWL-MA-53

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

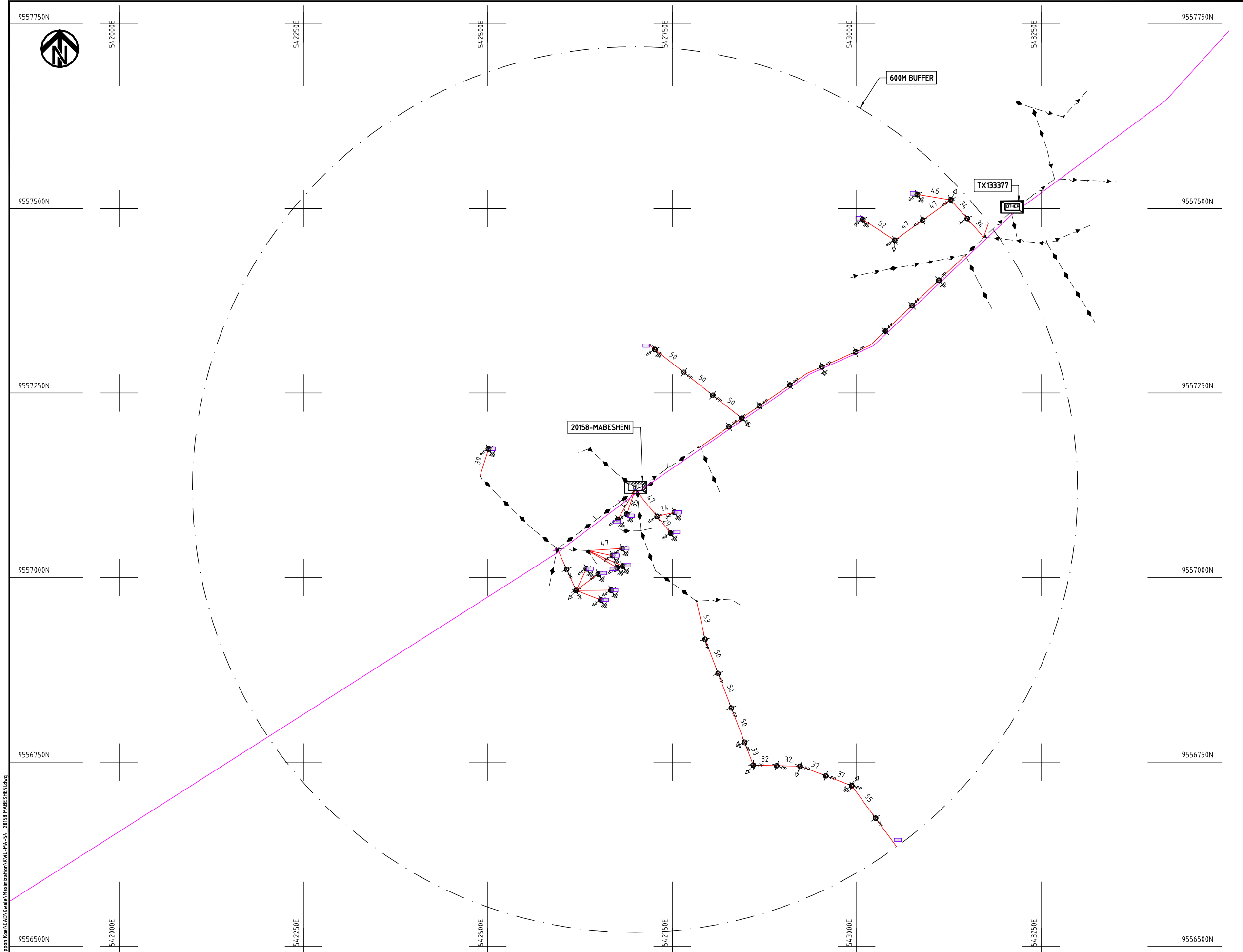
Y.TANAKA

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.

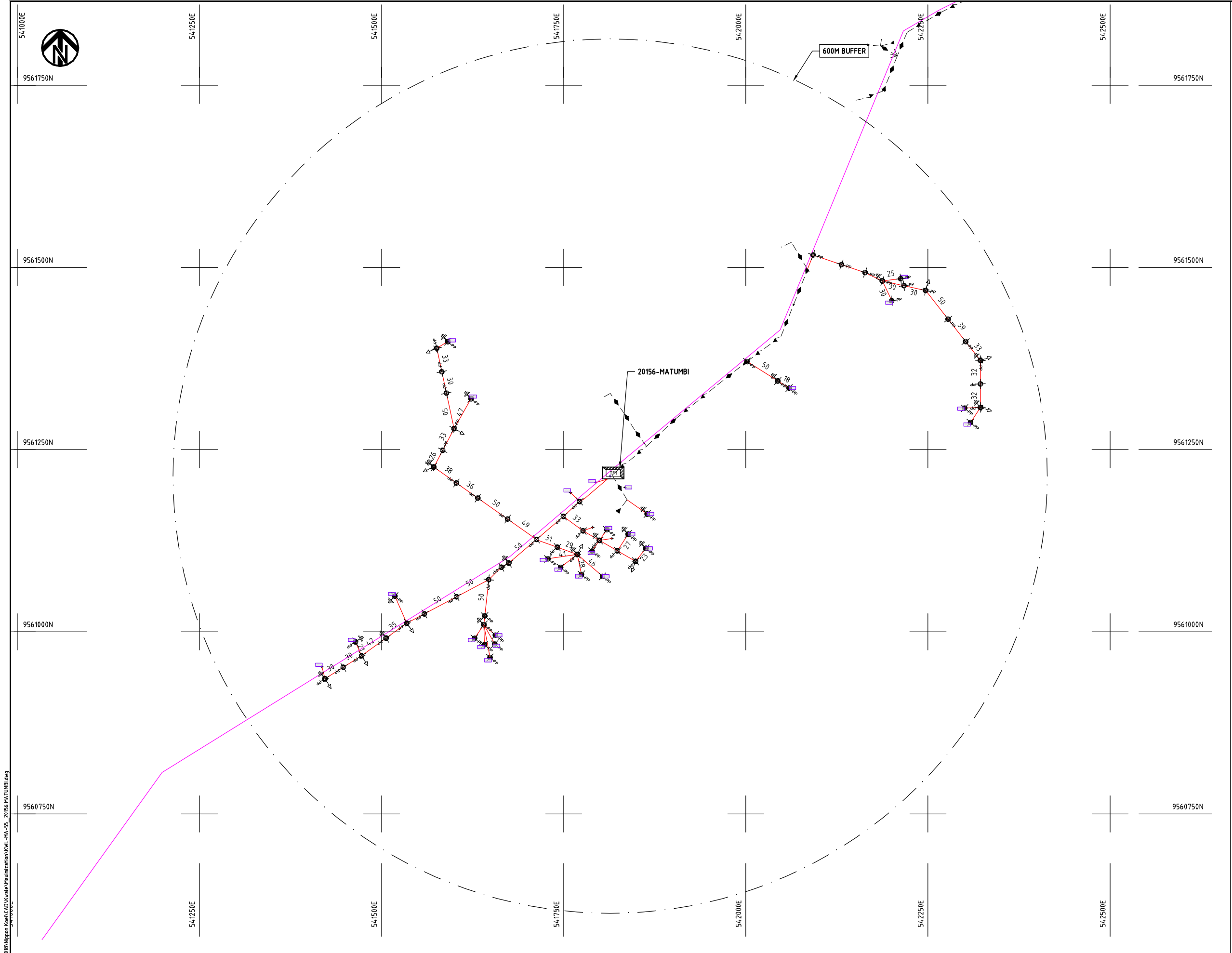
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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

SCALE 1:5000 50 0 50 100 150 200 250m (A3)

Cad File No. D:\Frank-Proj 2018\Nippon Koei\CAD\Kenya\Maximization\KWL-MA-54_20158 MABESHENI.dwg

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	KWL-MA-54	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	20158 - MABESHENI		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

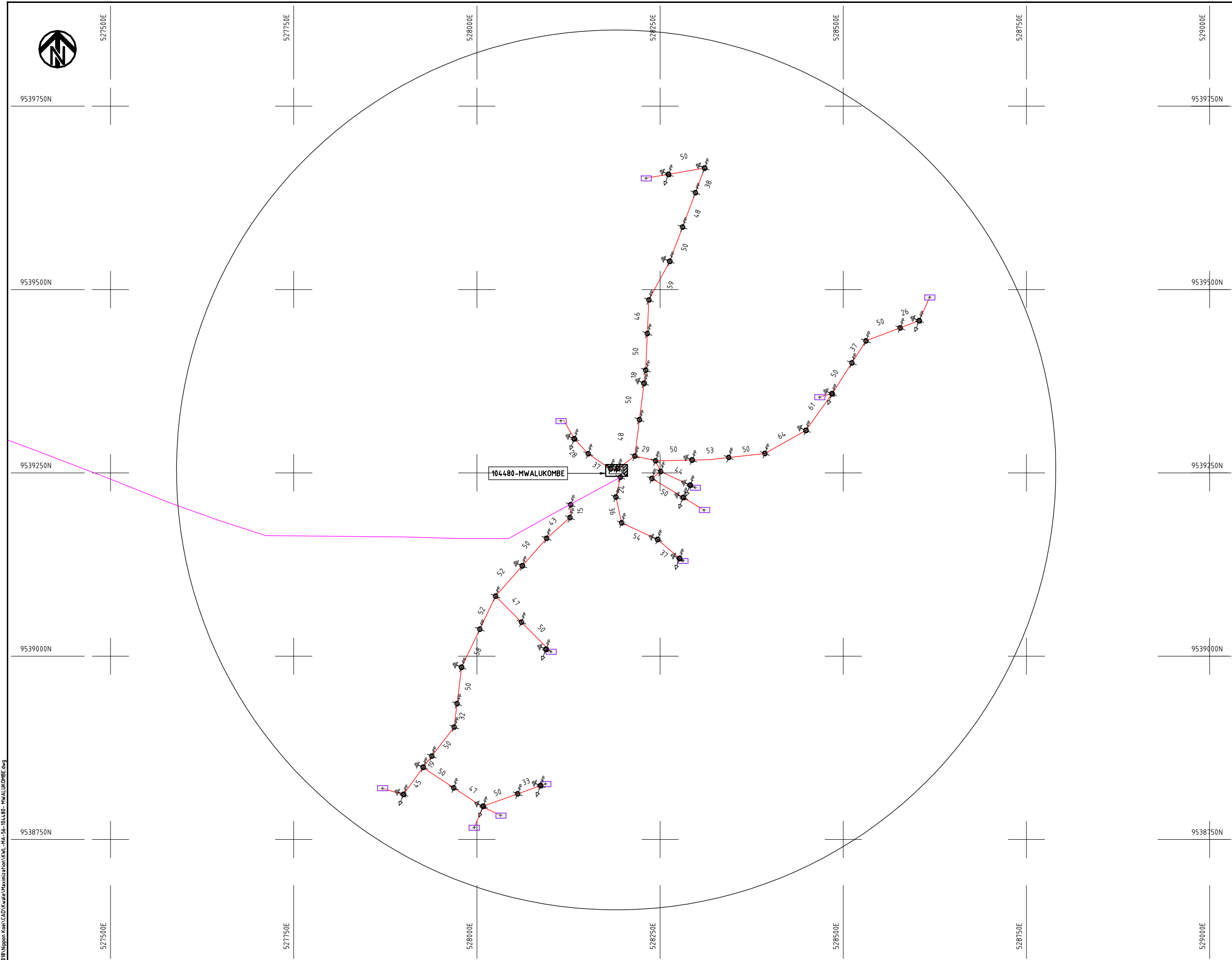


Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-55_20156 MATUMBI.dwg

PROJECT:	DRAWING TITLE			DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 20156 - MATUMBI			KWL-MA-55	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018

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





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: 104480 MWALUKOMBE

DRAW. NO.

KWL-MA-56

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

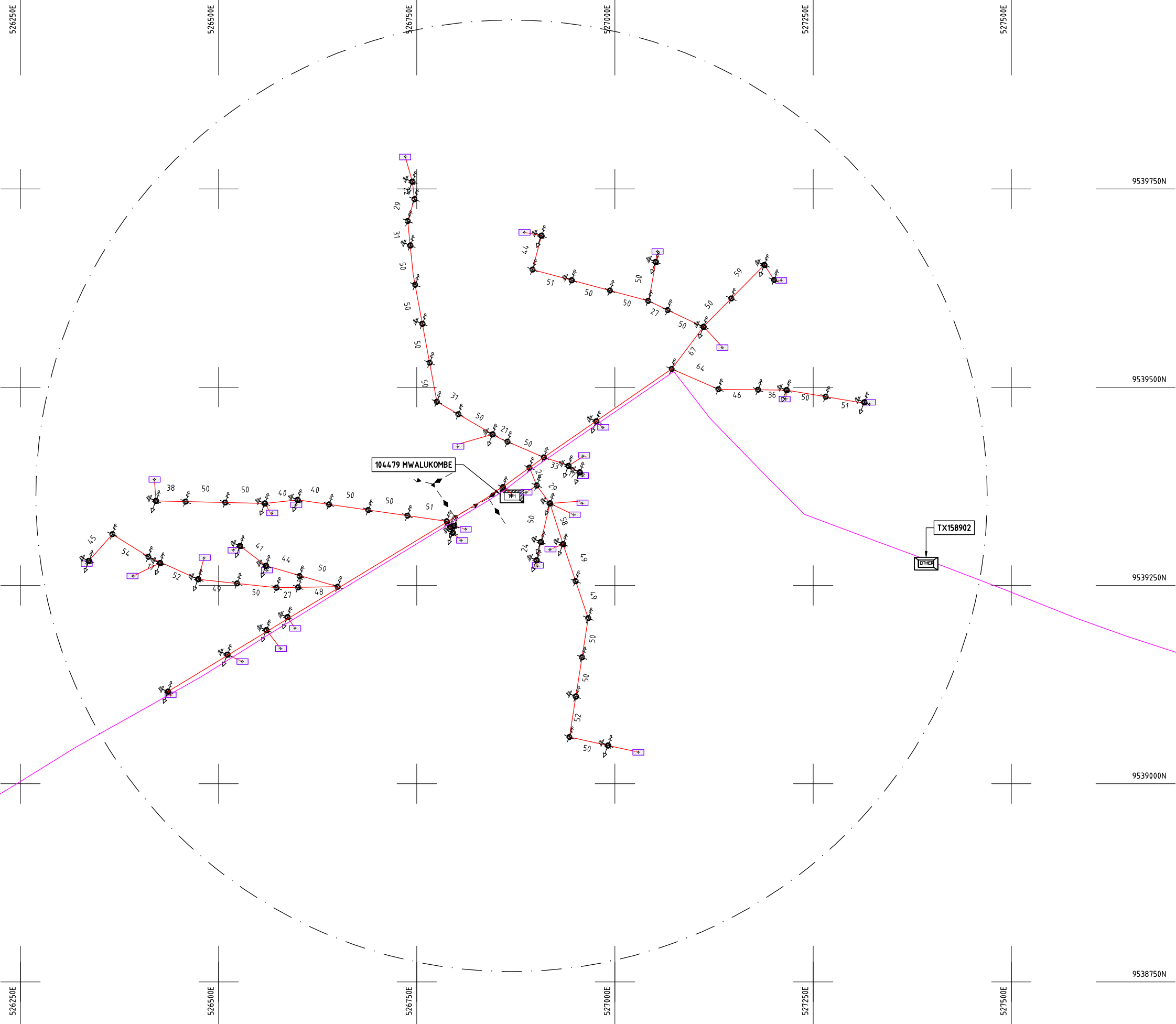
Y.TANAKA

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

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: 104479 MWALUKOMBE

DRAW. NO.	PREPARED BY	A.AKBAR
KWL-MA-57	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





525750E

526000E

526250E

526500E

526750E

527000E

9537250N

9537250N

9537000N

9537000N

9536750N

9536750N

9536500N

9536500N

9536250N

9536250N

525750E

526000E

526250E

526500E

526750E

527000E

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
- CP CONCRETE ELECTRIC POLES 12M
- CP 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

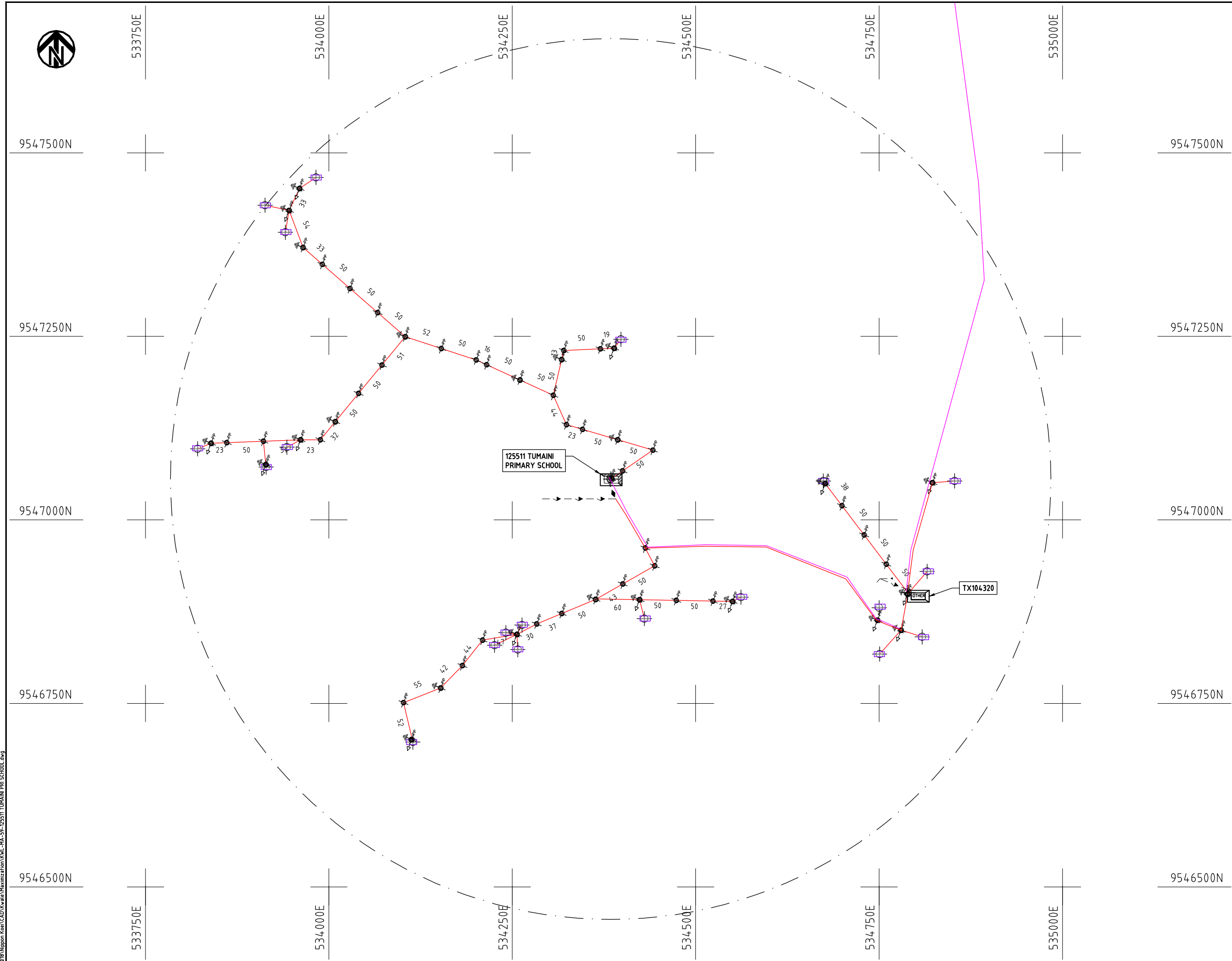
Y.TANAKA

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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP 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: 125511 TUMAINI PRI SCHOOL

DRAW. NO.

KWL-MA-59

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

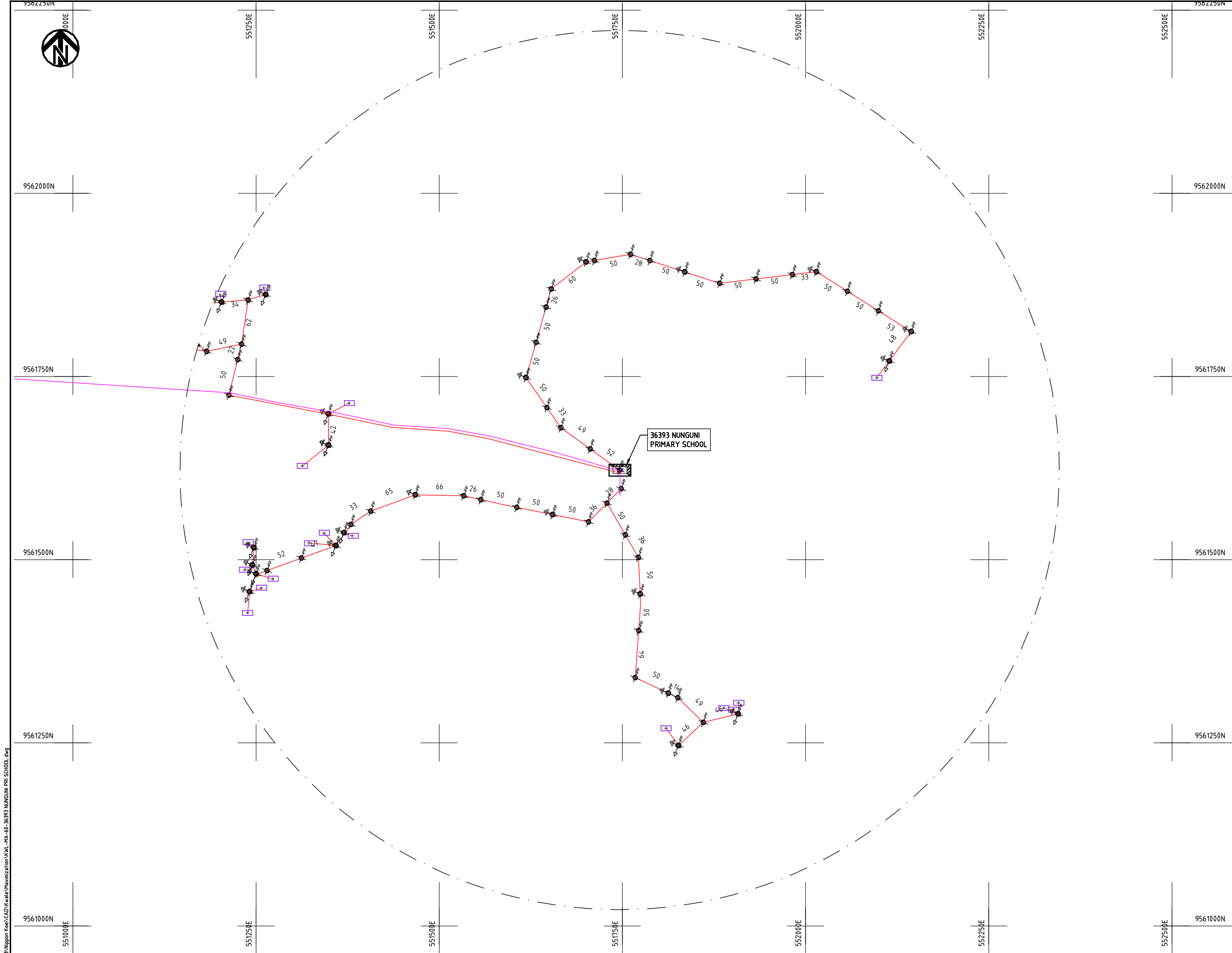
Y.TANAKA

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:	DRAWING TITLE				DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 36393 NUNGUNI PRI SCH				KWL-MA-60	CHECKED BY	S.MAETA
						APPROVED BY	Y.TANAKA
						DATE	10th SEP 2018



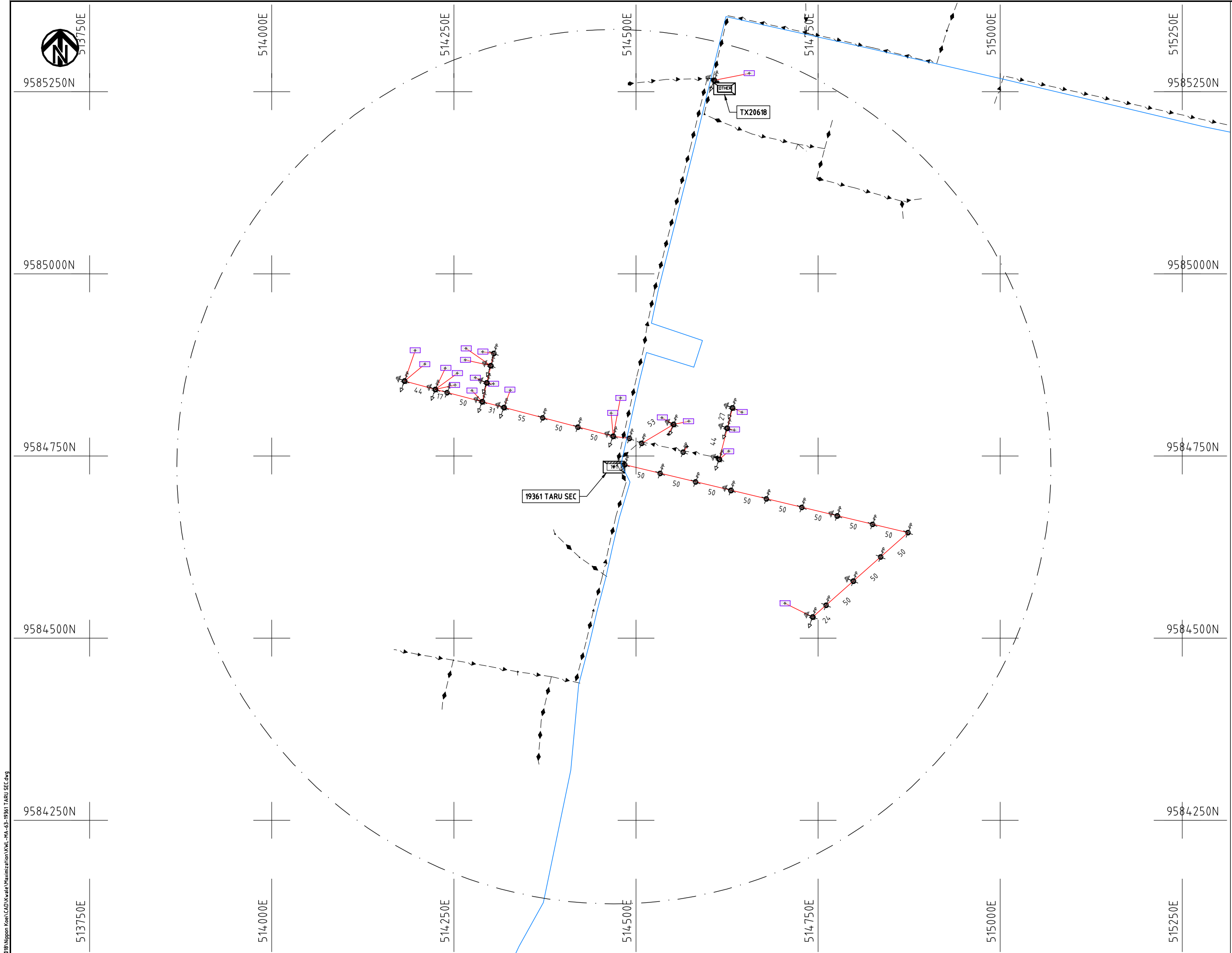


- ### LEGEND

- SCALE 1 : 5000  (A3)

 NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-63-19361 TARU SEC.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
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

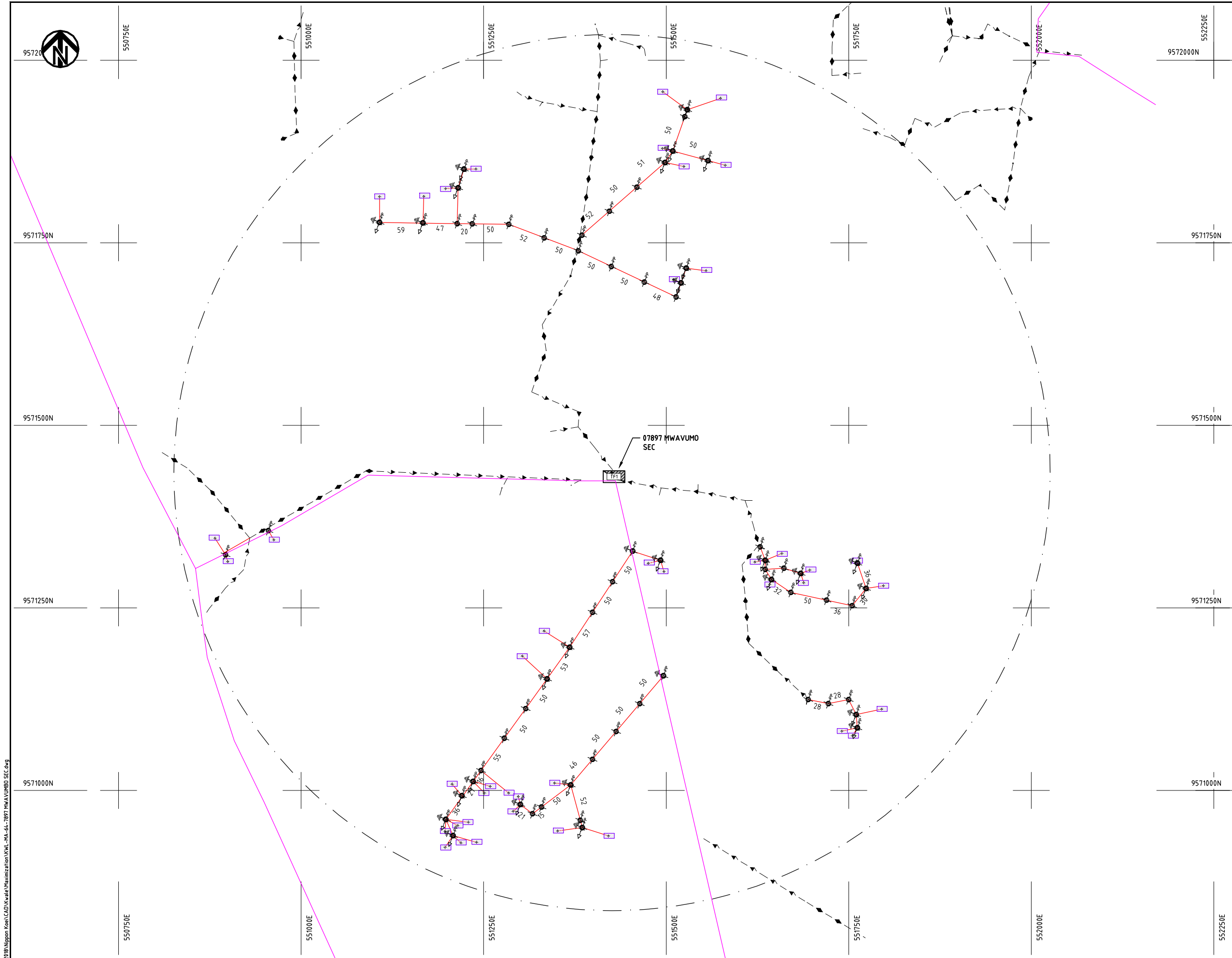
PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

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

DRAW. NO.	PREPARED BY	A.AKBAR
KWL-MA-63	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-64-1897 MWAVUMBO SEC.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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP 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: 7897 MWAVUMBO SEC

DRAW. NO.

KWL-MA-64

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

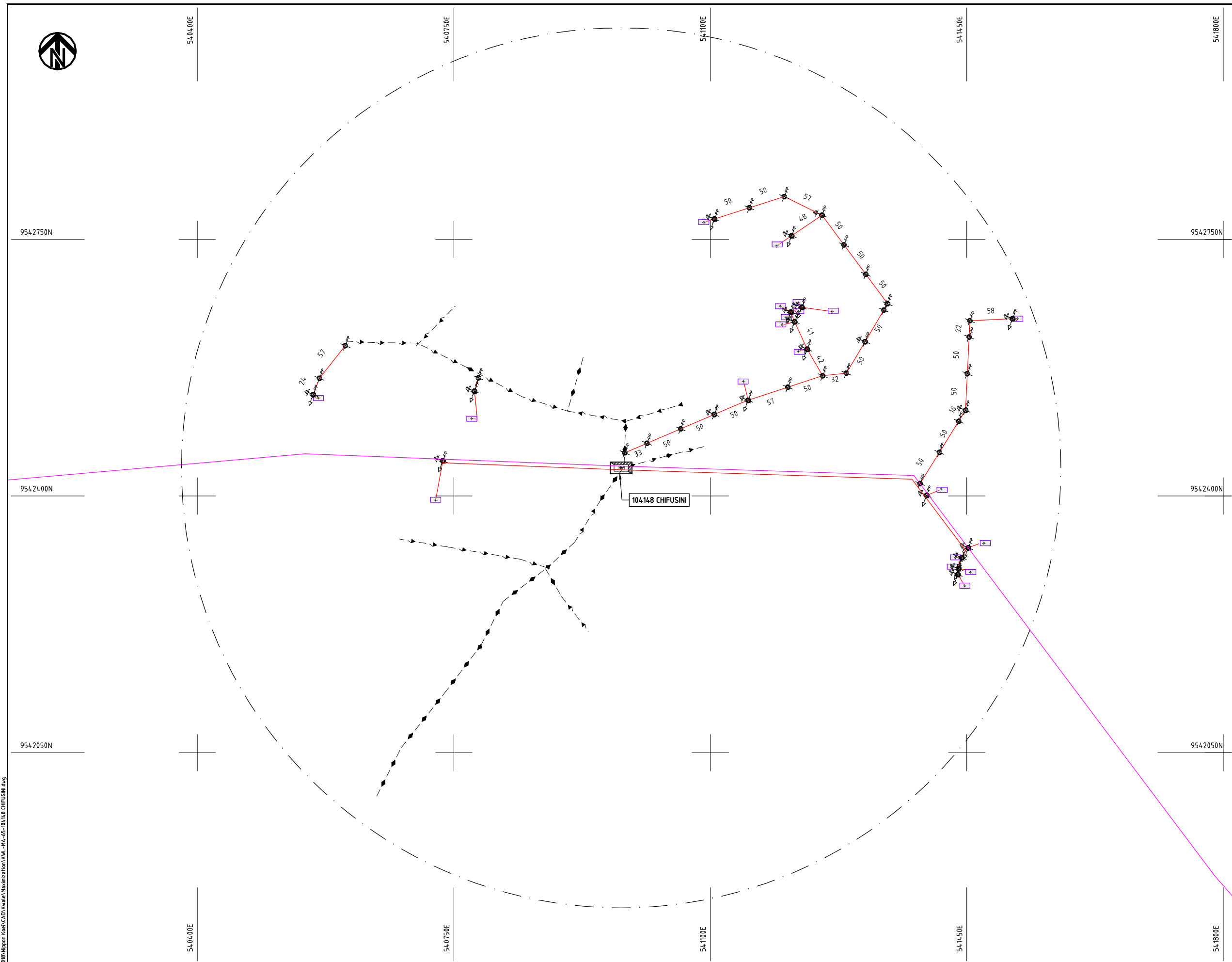
Y.TANAKA

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

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: 104148 CHIFUSINI

DRAW. NO.

KWL-MA-65

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

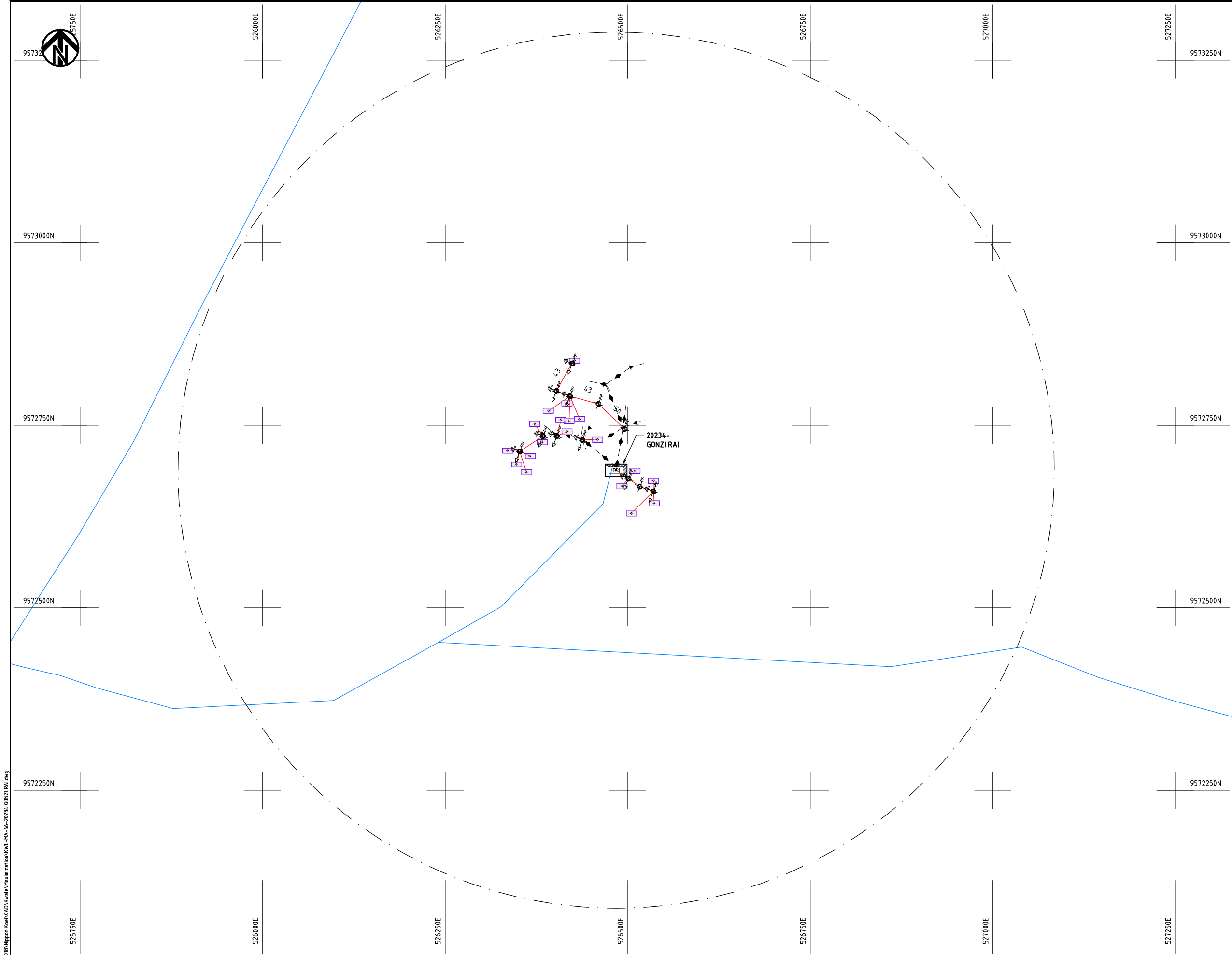
Y.TANAKA

DATE

10th SEP 2018

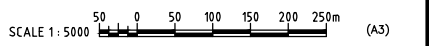


NIPPON KOEI CO., LTD



- 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
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 - MAXIMISATION TRANSFORMER
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 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES 12M
 - CONCRETE ELECTRIC POLES 11M
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

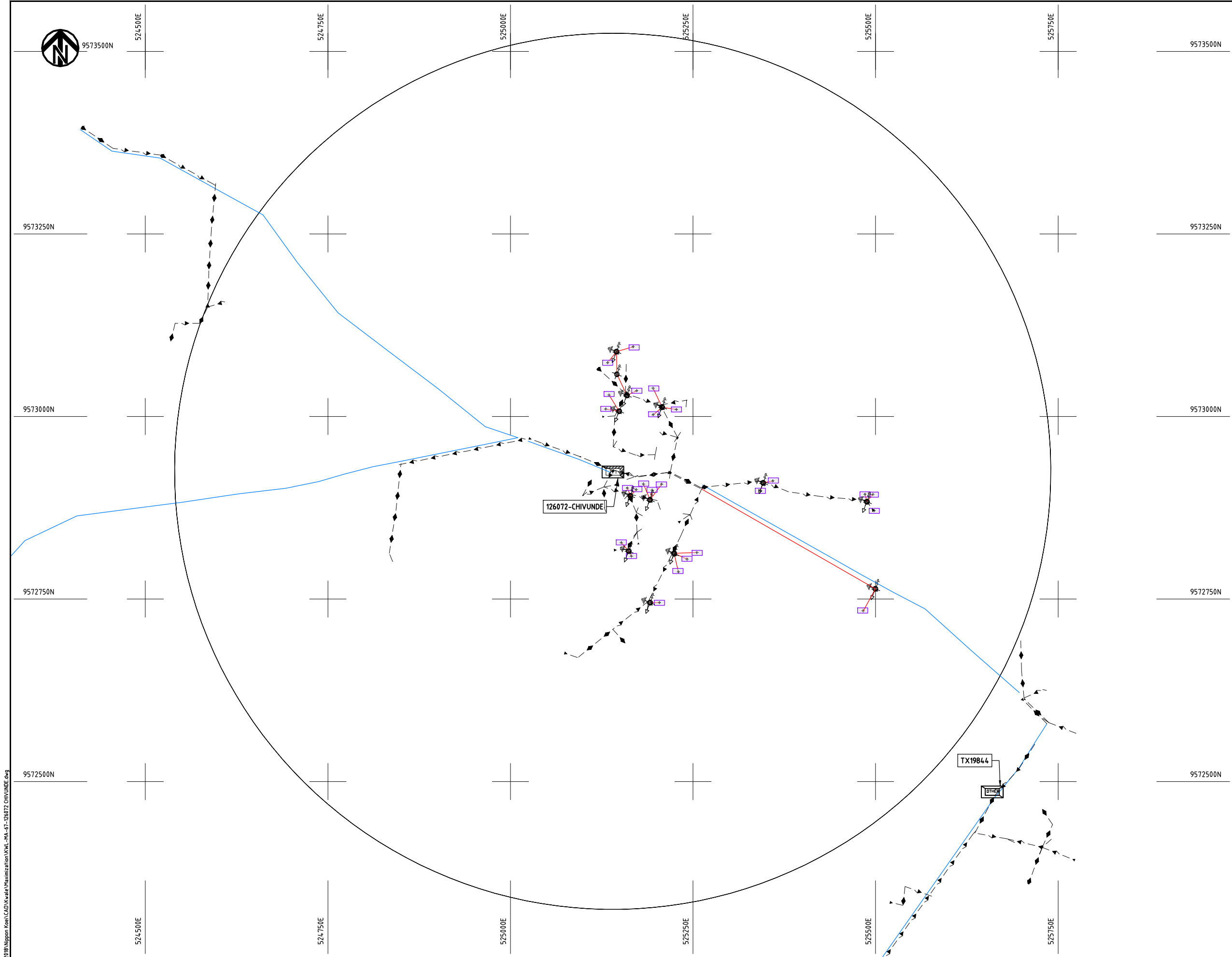


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PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	KWALE	KWL-MA-66	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA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



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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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP 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: 126072 CHIVUNDE

DRAW. NO.

KWL-MA-67

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

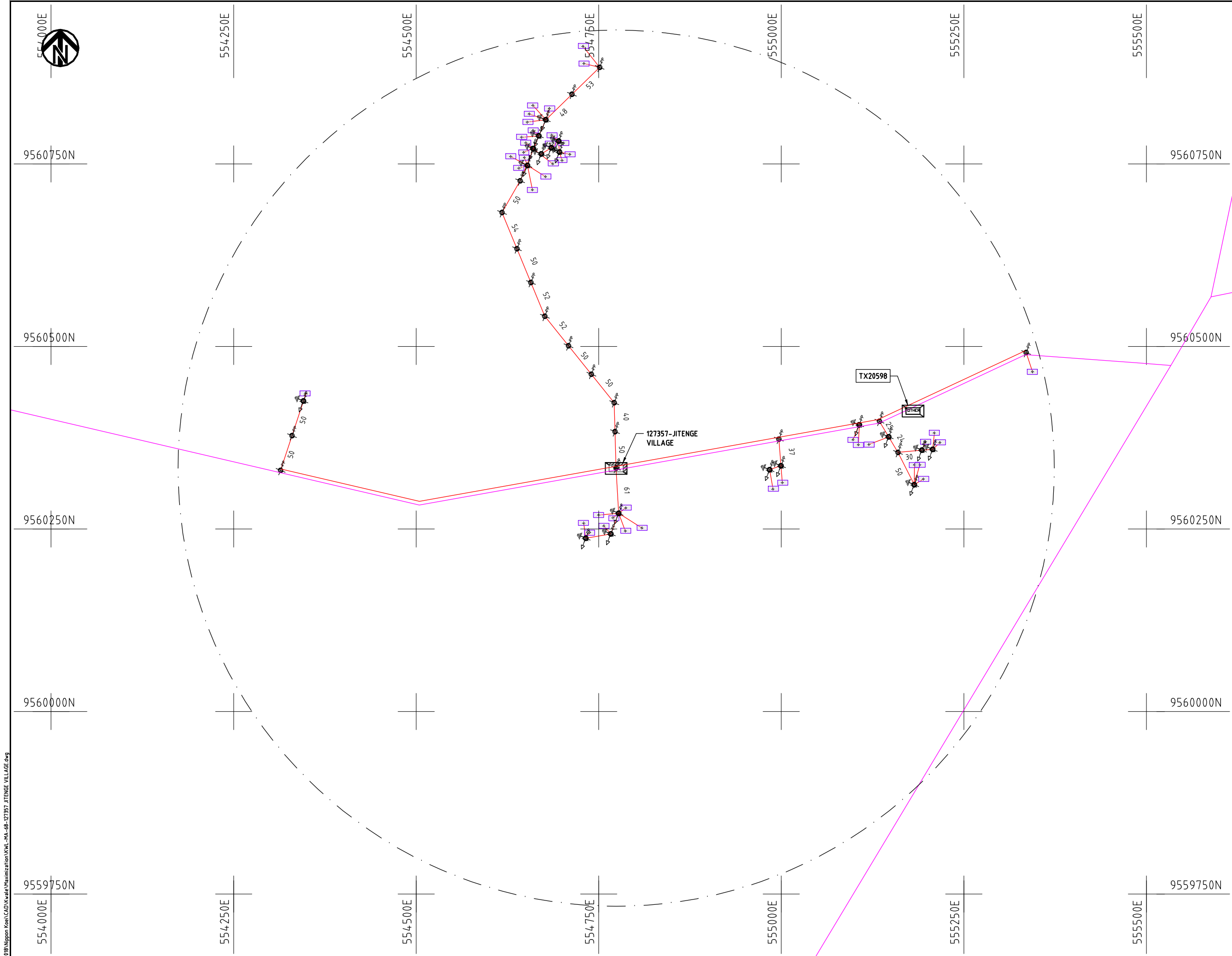
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

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

- 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

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: 127357 JITENGE VILLAGE

DRAW. NO.

KWL-MA-68

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-69-126449 MWANDIMU VILLAGE.dwg



9540250N

9540000N

9539750N

9539500N

9539250N

500750E

501000E

501250E

501500E

501750E

502000E

9540250N

9540000N

9539750N

9539500N

9539250N

500750E

501000E

501250E

501500E

501750E

502000E

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: 126449 MWANDIMU VILLAGE

DRAW. NO.

KWL-MA-69

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.

LEGEND

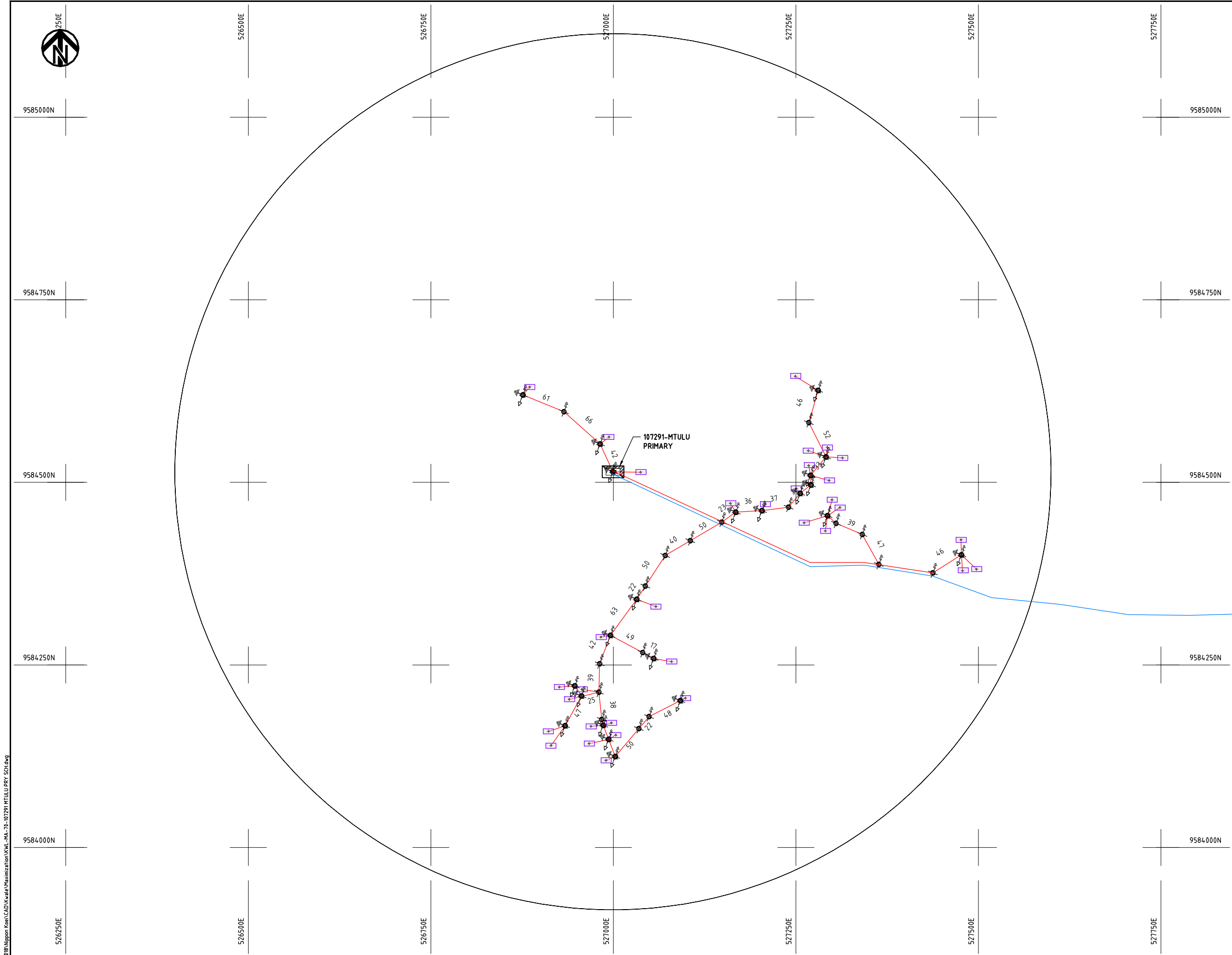
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
-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

SCALE 1:5000 (A3)



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\Kwale\Maximization\KWL-MA-70-107291 MTULU PRI 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.
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LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
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- 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: 107291 MUTULU PRI SCH

DRAW. NO.

KWL-MA-70

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



536750E

537000E

537250E

537500E

537750E

538000E

9503000N

9503000N

9502750N

9502750N

9502500N

9502500N

9502250N

9502250N

9502000N

9502000N

536750E

537000E

537250E

537500E

537750E

538000E

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: 112539 CHIGOMBERO VILLAGE L_LUNGA KWALE

DRAW. NO.

KWL-MA-72

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018

NOTES:

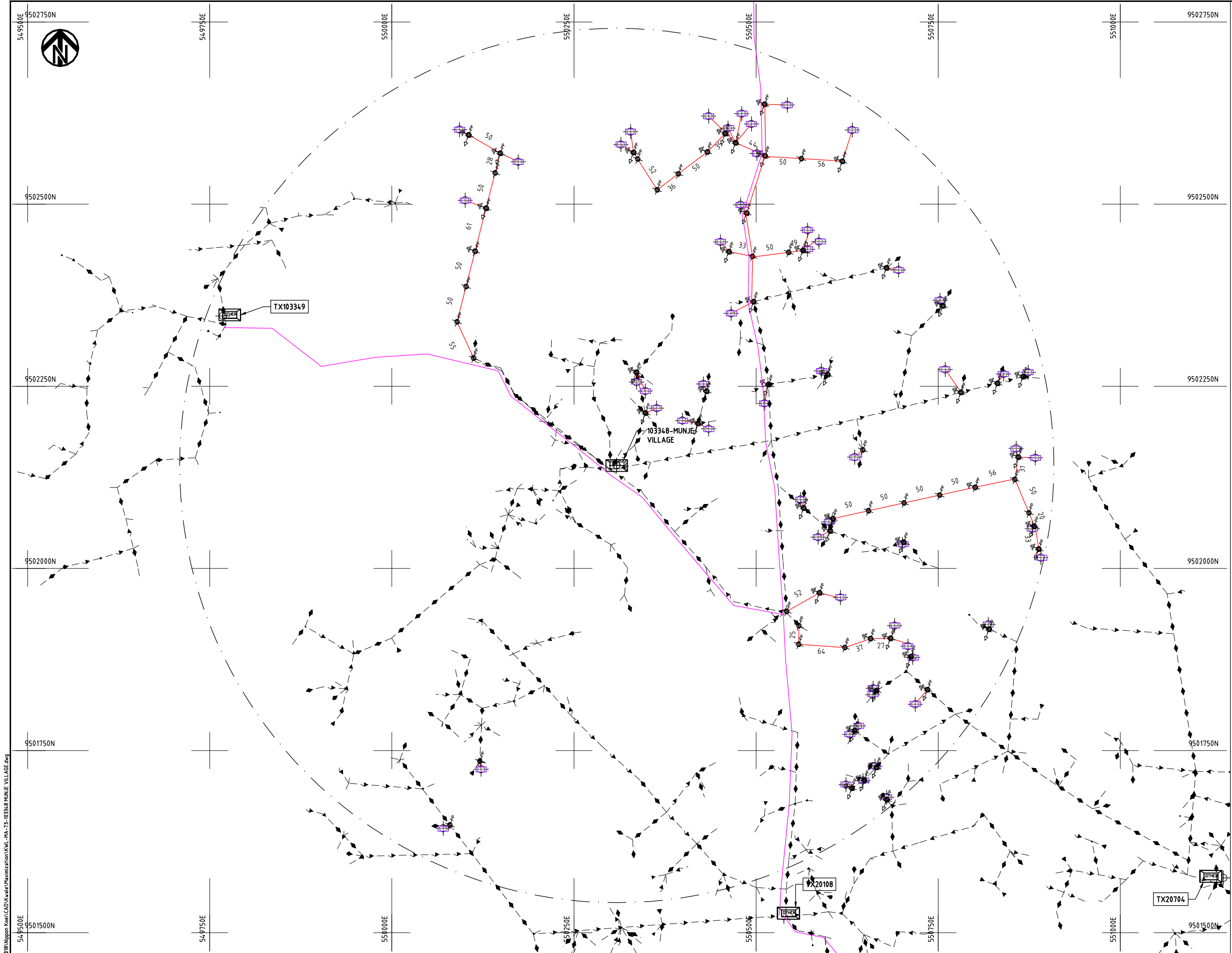
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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LEGEND

- 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

SCALE 1:5000 (A3)

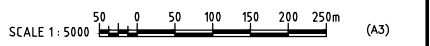
NIPPON KOEI CO., LTD



- 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.
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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-73-103348 MUNJE VILLAGE.dwg

PROJECT:	DRAWING TITLE			DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 103348 MUNJE VILLAGE			KWL-MA-73	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018





546500E

546750E

547000E

547250E

547500E

547750E

548000E

9520500N

9520250N

9520000N

9519750N

9519500N

9520500N

9520250N

9520000N

9519750N

9519500N

102377-MAJIMBONI
S/HILLS

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
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- 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

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: 102377 MAJIMBONI S/HILLS

DRAW. NO.

KWL-MA-74

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



535750E

536000E

536250E

536500E

536750E

537000E

9518250N

9518250N

9518000N

9518000N

9517750N

9517750N

9517500N

9517500N

9517250N

9517250N

535750E

536000E

536250E

536500E

536750E

537000E

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: 102376 LUKORE

DRAW. NO.

KWL-MA-75

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.

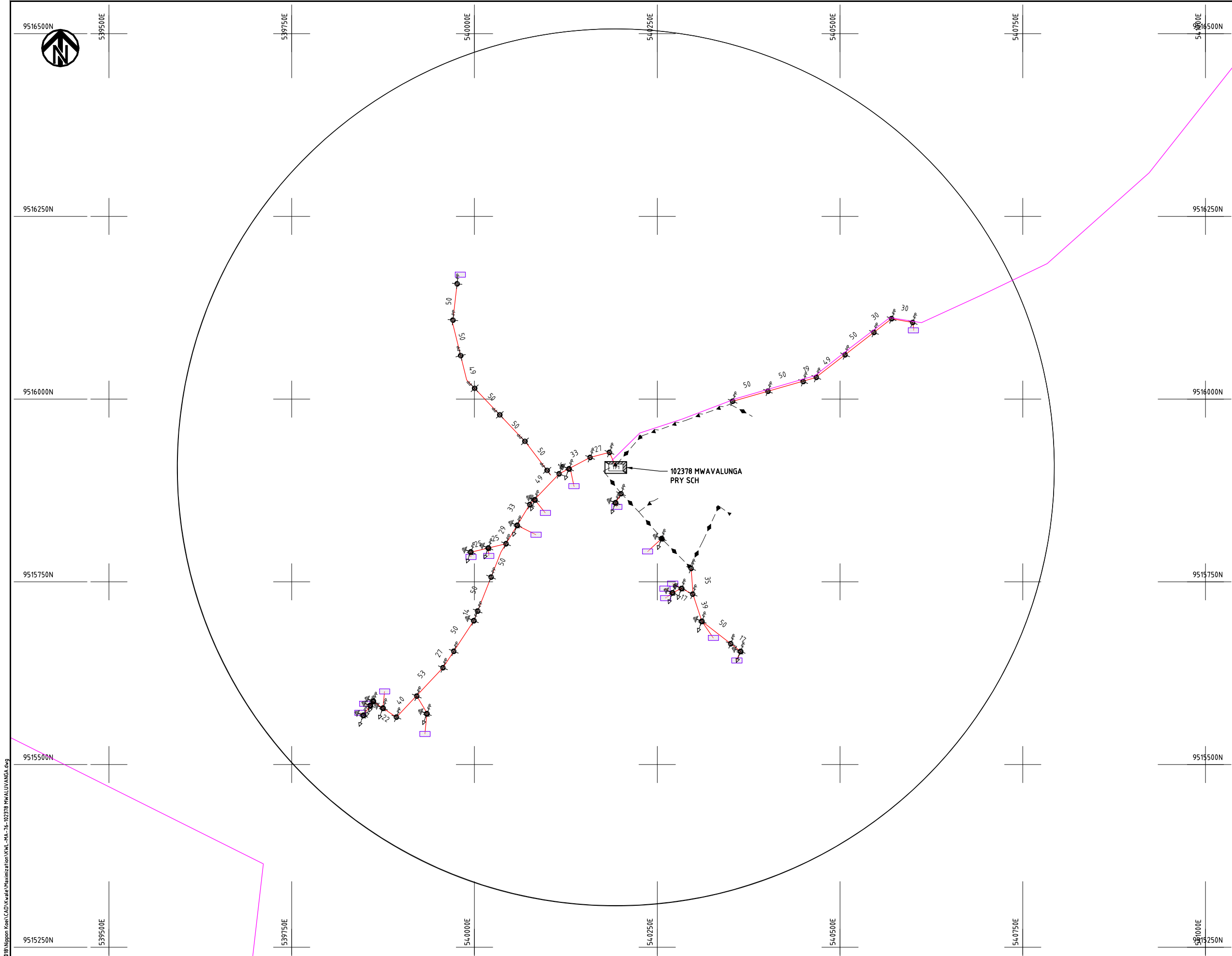
LEGEND

- 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

SCALE 1:5000 (A3)



NIPPON KOEI CO., LTD



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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LEGEND

- HOUSEHOLDS/ BUILDINGS
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- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
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- 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

SCALE 1:5000 (A3)

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

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	KWL-MA-76	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	102378 MWALUVANGA PRY SCH		DATE	10th SEP 2018





9522500N

9522250N

9522000N

9521750N

9521500N

5443500E

5443750E

5444000E

5444250E

5444500E

5444750E

9522500N

9522250N

9522000N

9521750N

9521500N

102445-KIDONGO
VILLAGE

TX104147

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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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: 102445 KIDONGO VILLAGE

DRAW. NO.

KWL-MA-77

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

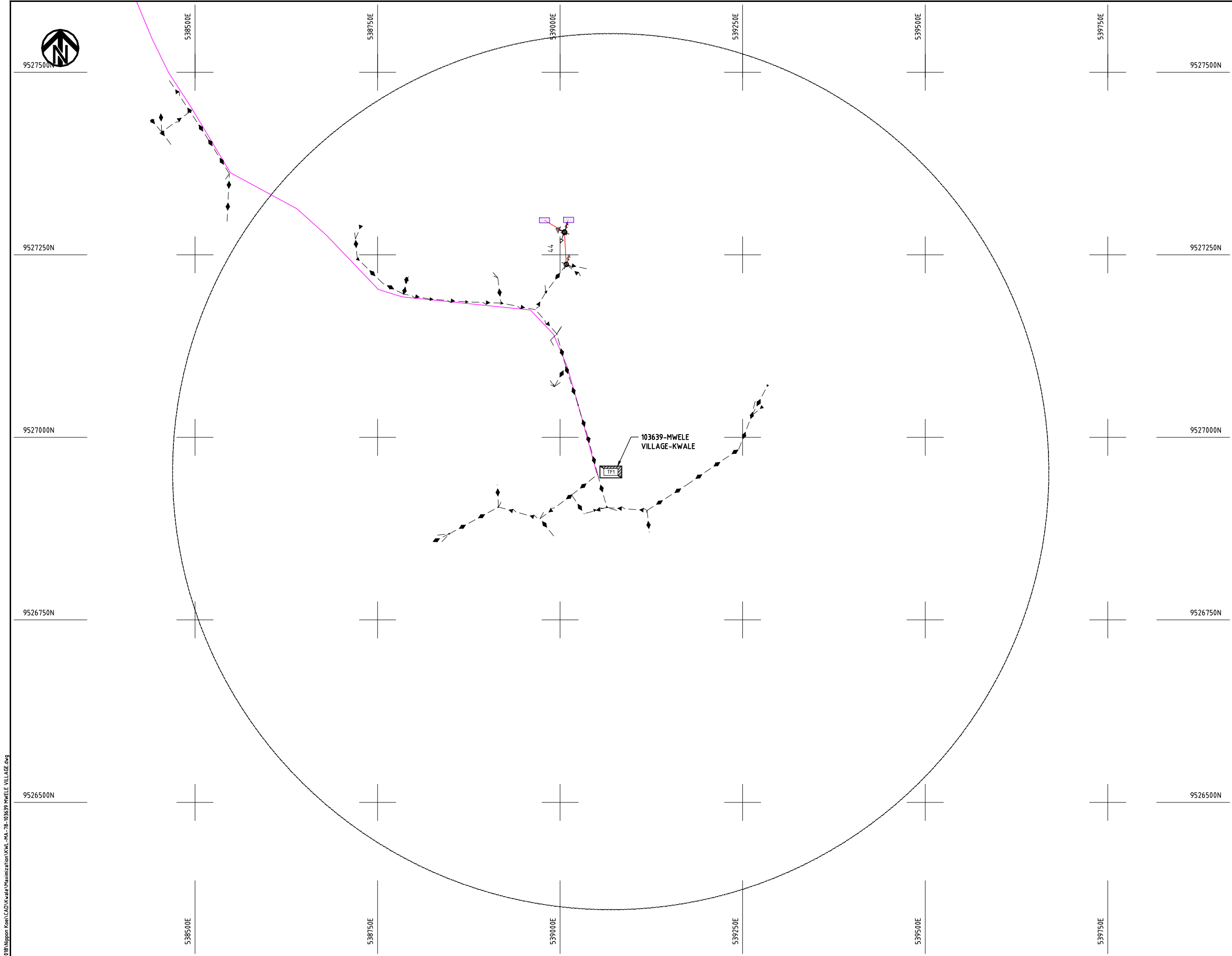
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

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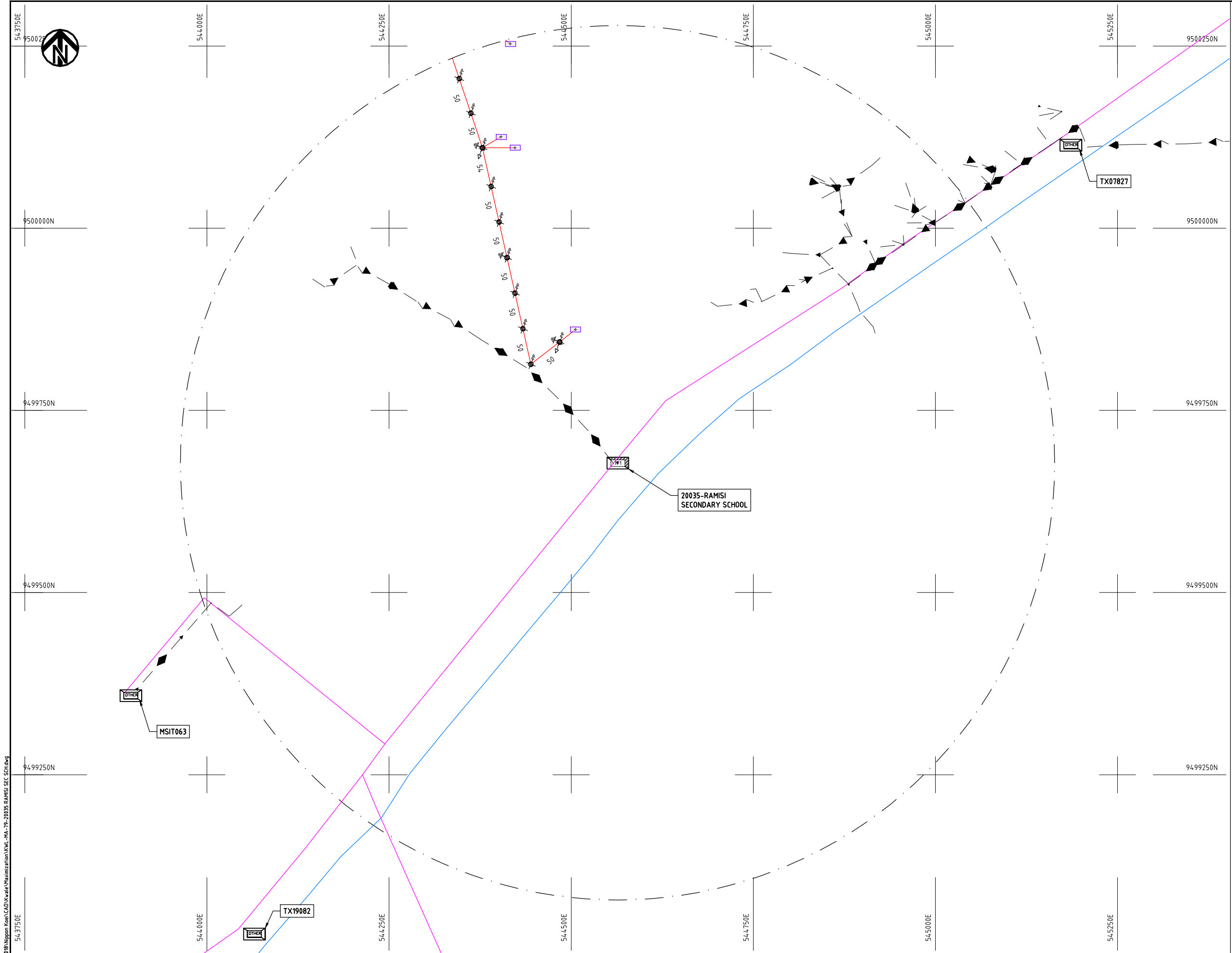
NOTES:

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.
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LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
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- 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





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

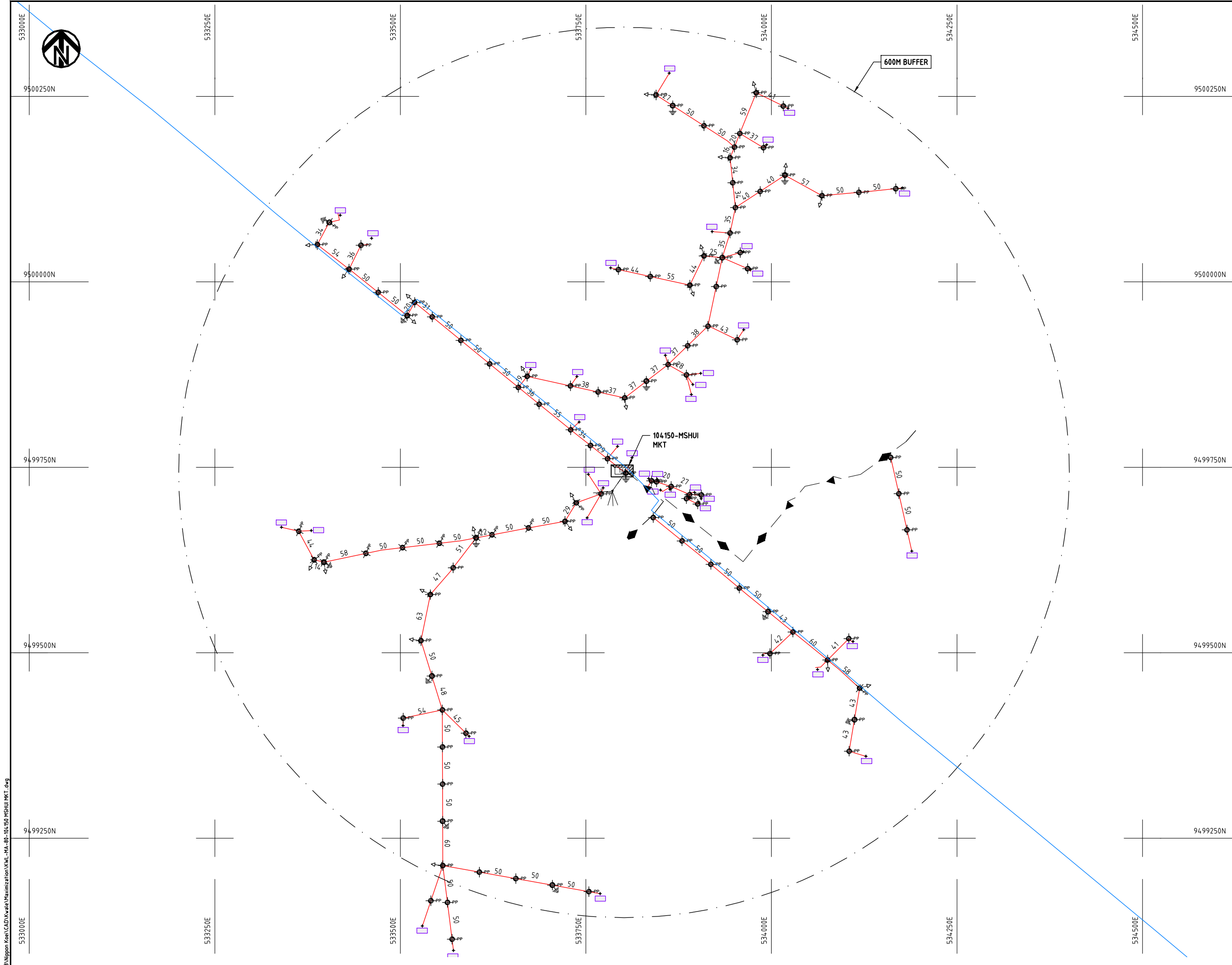
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH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

SCALE 1:5000 (A3)

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-79-20035 RAMISI SEC SCH.dwg

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

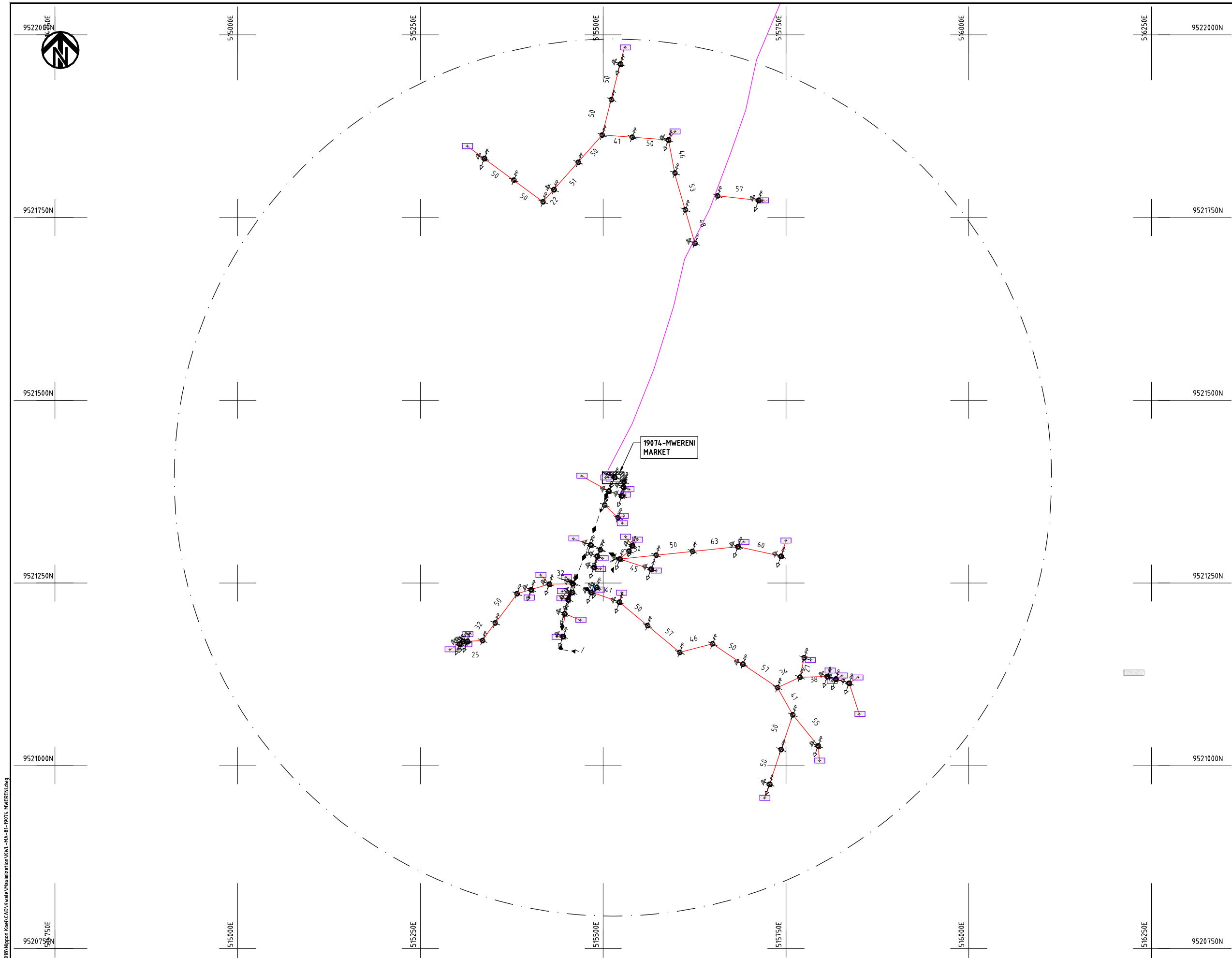


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PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	KWALE	KWL-MA-80	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA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

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: 19074 MWERENI

DRAW. NO.

KWL-MA-81

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

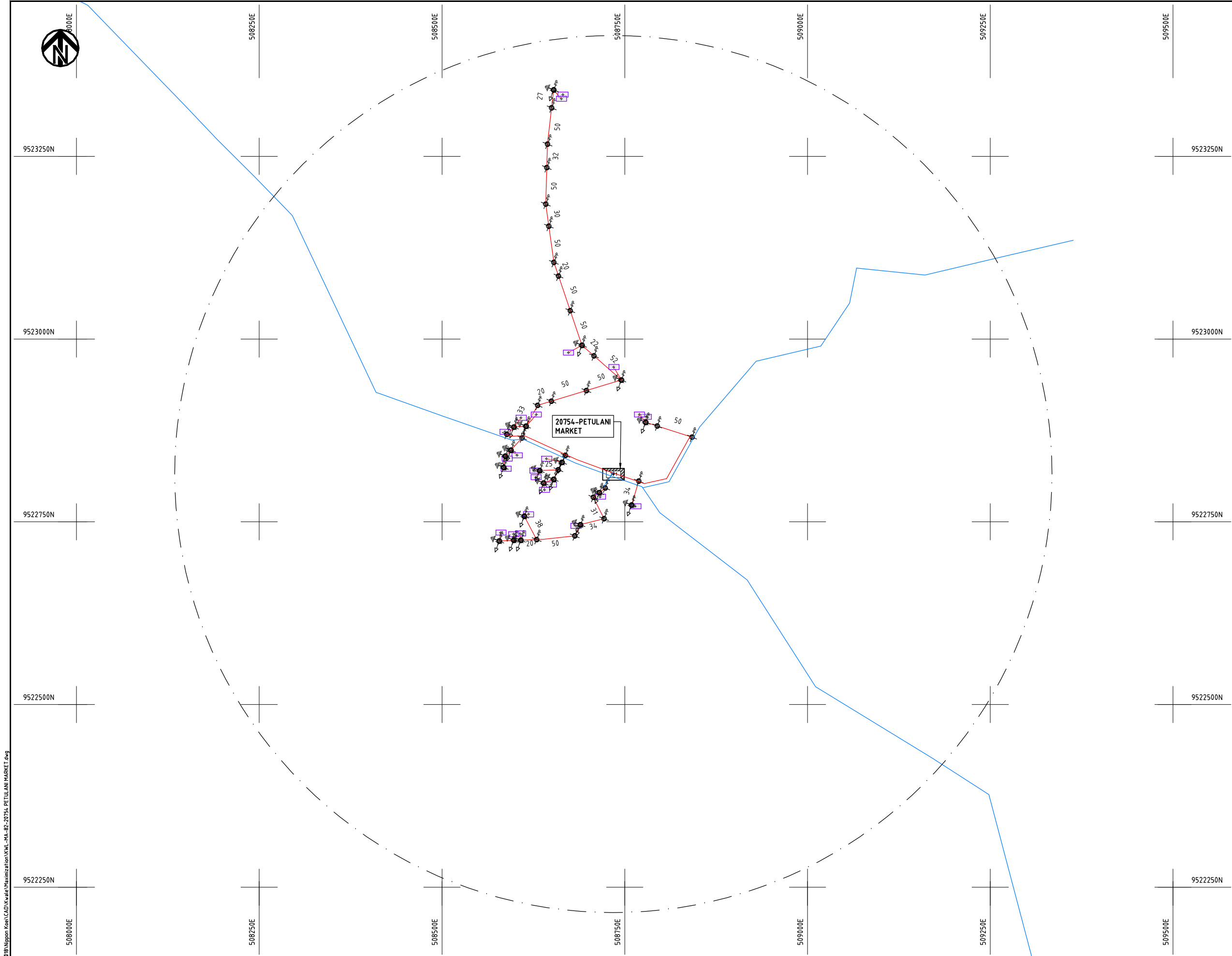
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

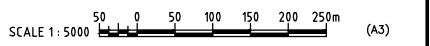
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- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m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

LEGEND

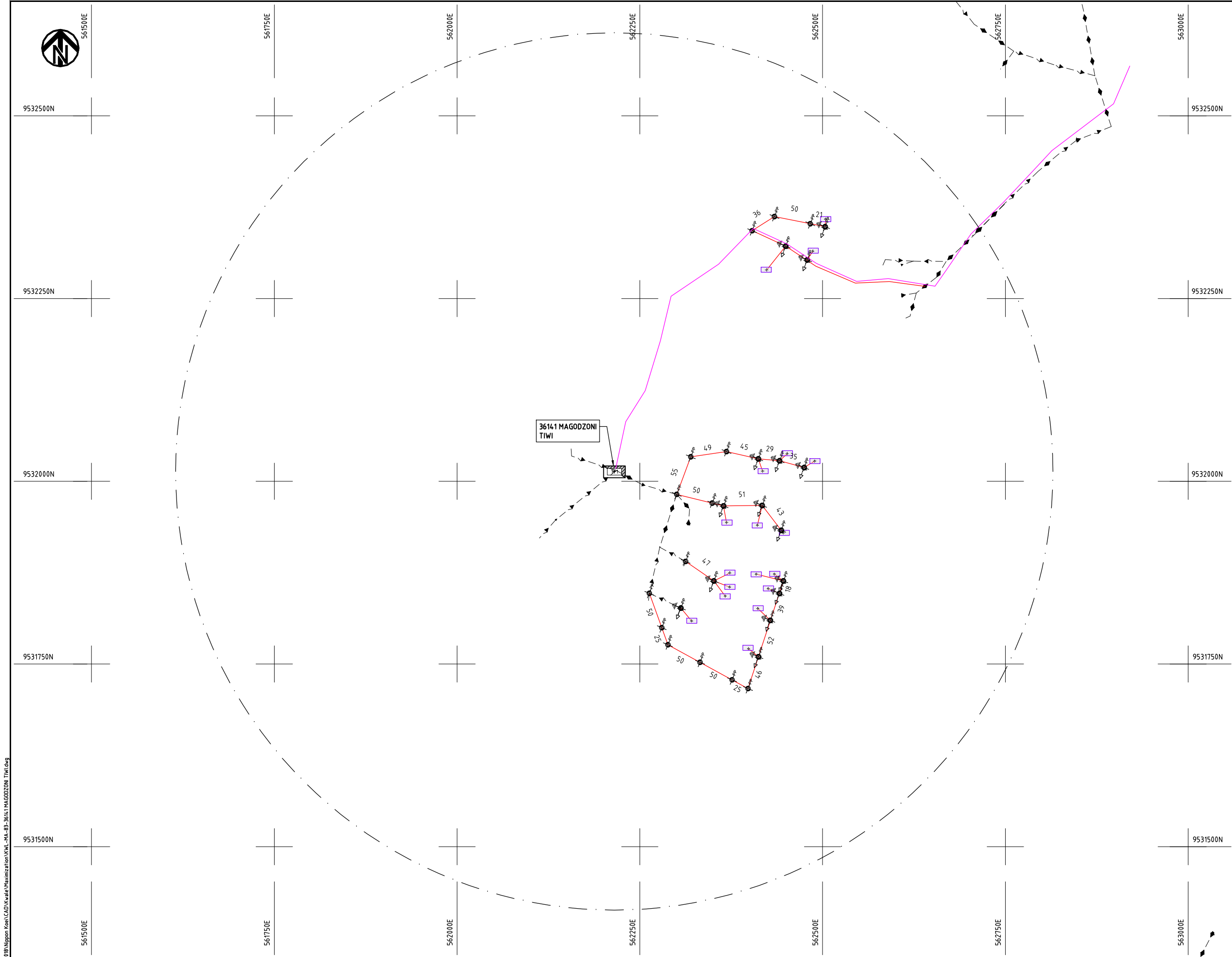
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH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



PROJECT:	DRAWING TITLE			DRAW. NO.		PREPARED BY		A.AKBAR
						CHECKED BY		S.MAETA
	COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 20754 PETULANI MARKET			KWL-MA-82		APPROVED BY		Y.TANAKA
						DATE		10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Kwale\Maximization\KWL-MA-83-3611 MAGODZONI TIWI.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

SCALE 1:5000 50 0 50 100 150 200 250m (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: 36141 MAGODZONI TIWI

DRAW. NO.

KWL-MA-83

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



9535000N

524000E

524250E

524500E

524750E

525000E

525250E

9535000N

9534750N

9534750N

9534500N

9534500N

9534250N

9534250N

9534000N

9534000N

524000E

524250E

524500E

524750E

525000E

525250E

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

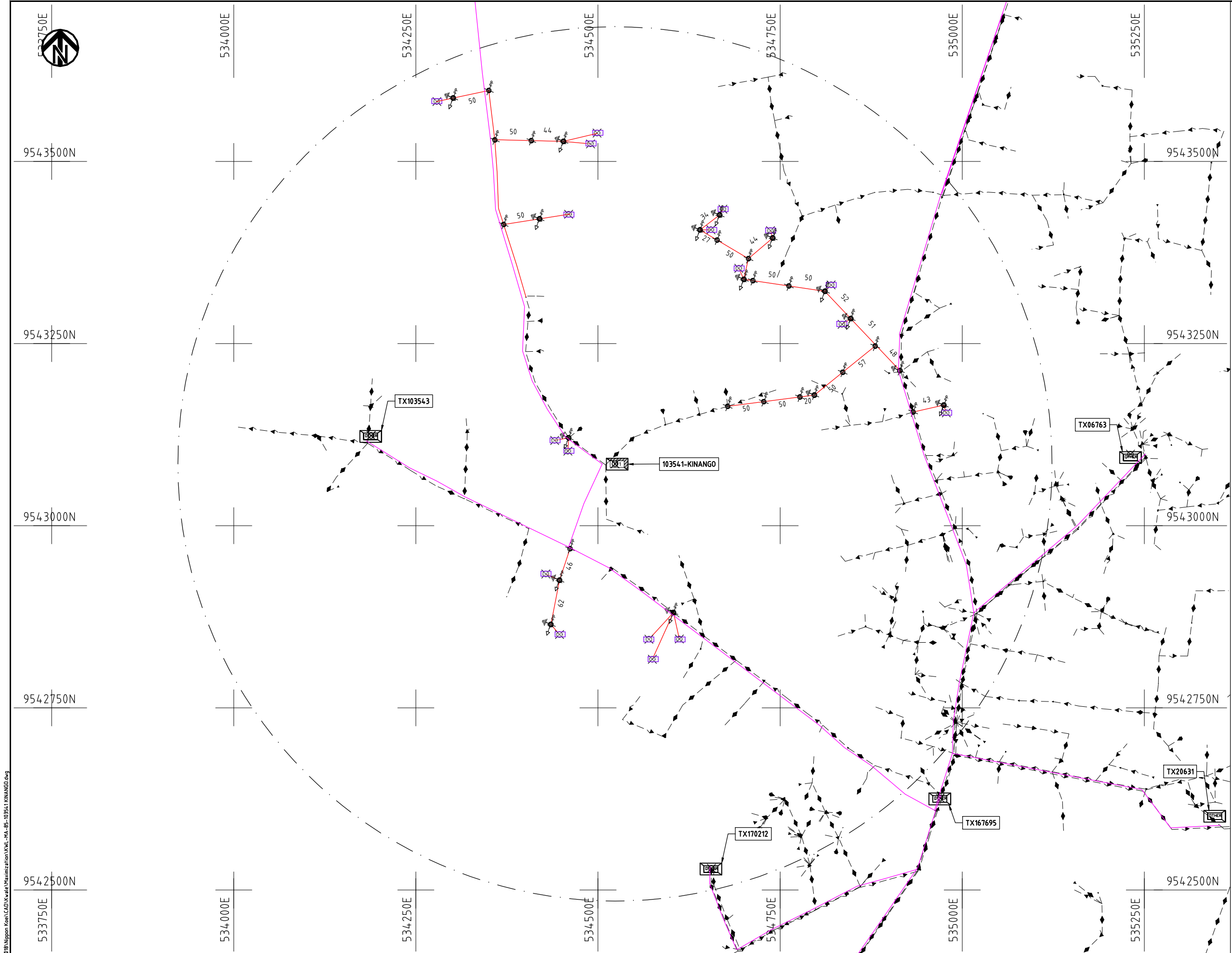
Y.TANAKA

DATE

10th SEP 2018



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
 - PP WOODEN ELECTRIC POLES
 - CP CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

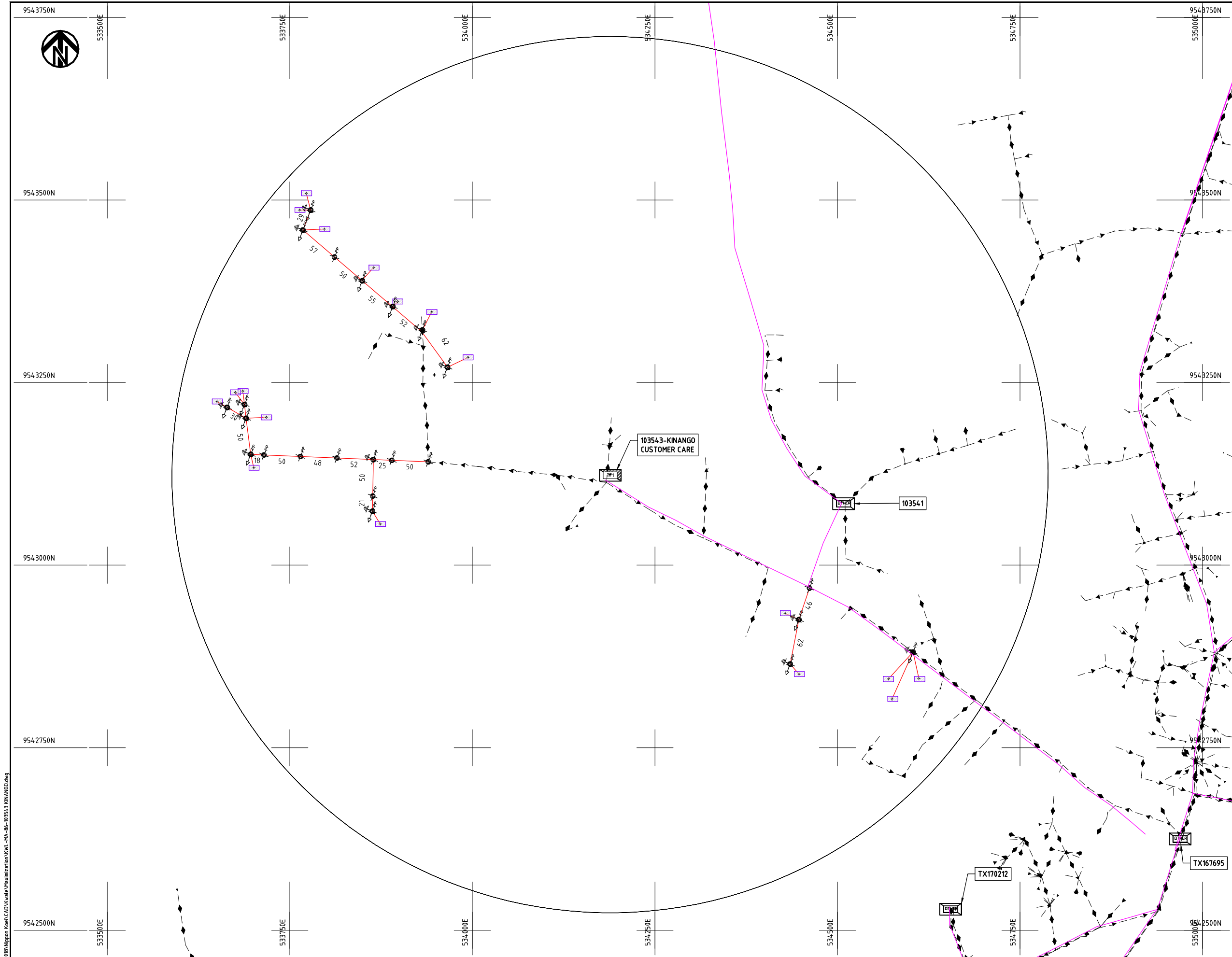


PROJECT:		DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA		COUNTY: KWALE SCHEME: MAXIMIZATION PROJECT SITE: 103541 KINANGO		KWL-MA-85	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 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

SCALE 1:5000 50 0 50 100 150 200 250m (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: 103543 KINANGO

DRAW. NO.

KWL-MA-86

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

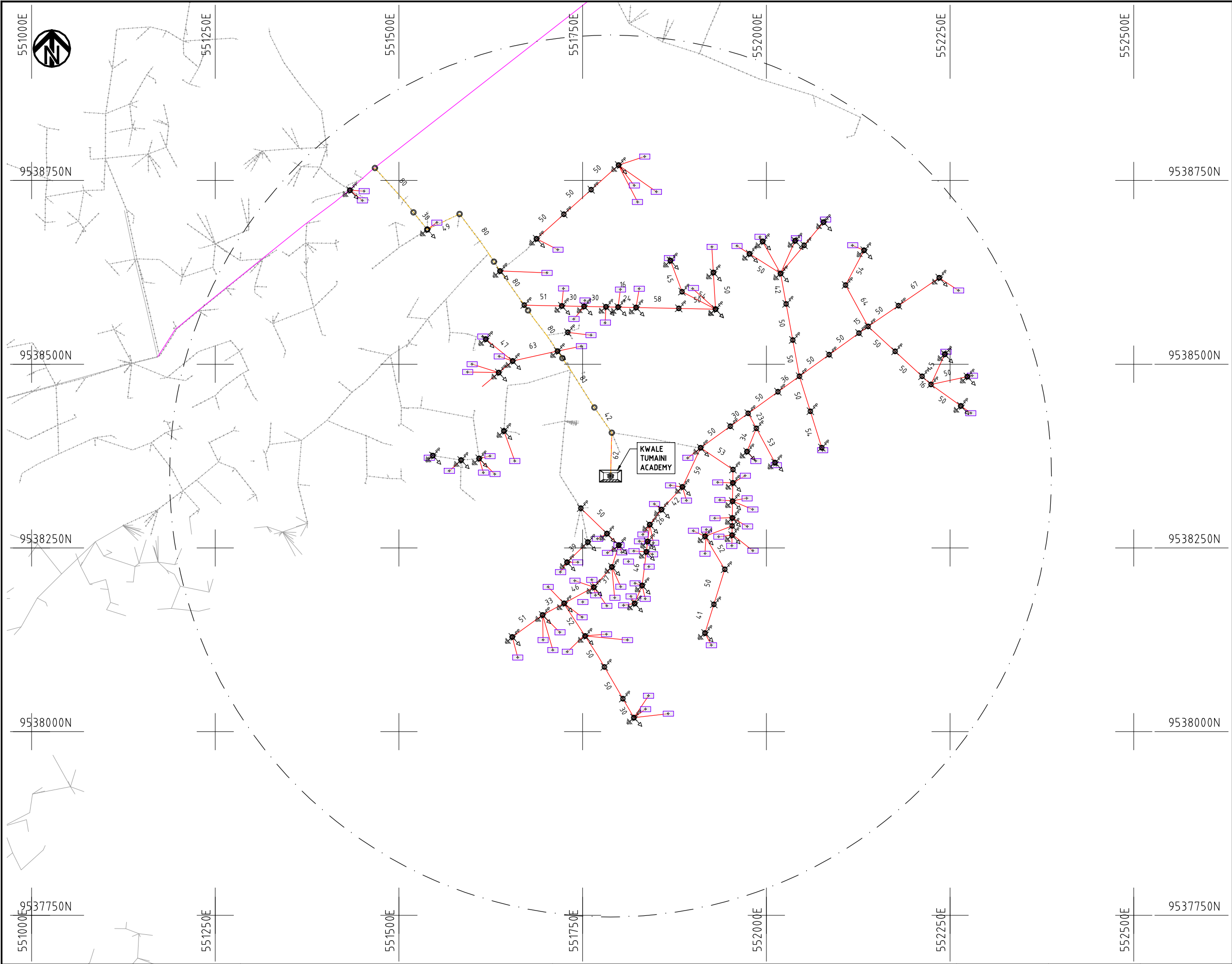
10th SEP 2018



NIPPON KOEI CO., LTD

クワレ郡

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:	DRAWING TITLE			DRAW. NO.	PREPARED BY	A.AKBAR
				KWL-EX-001	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA			COUNTY: KWALE SCHEME: EXTENSION PROJECT SITE: KWALE TUMAINI ACADEMY			



9580500N

9580250N

9580000N

9579750N

9579500N

528250E

528500E

528750E

529000E

529250E

529500E

9580500N

9580250N

9580000N

9579750N

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
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

1:1000 (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: SAMBURU KINANGONI STAGE

DRAW. NO.

KWL-EX-002

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

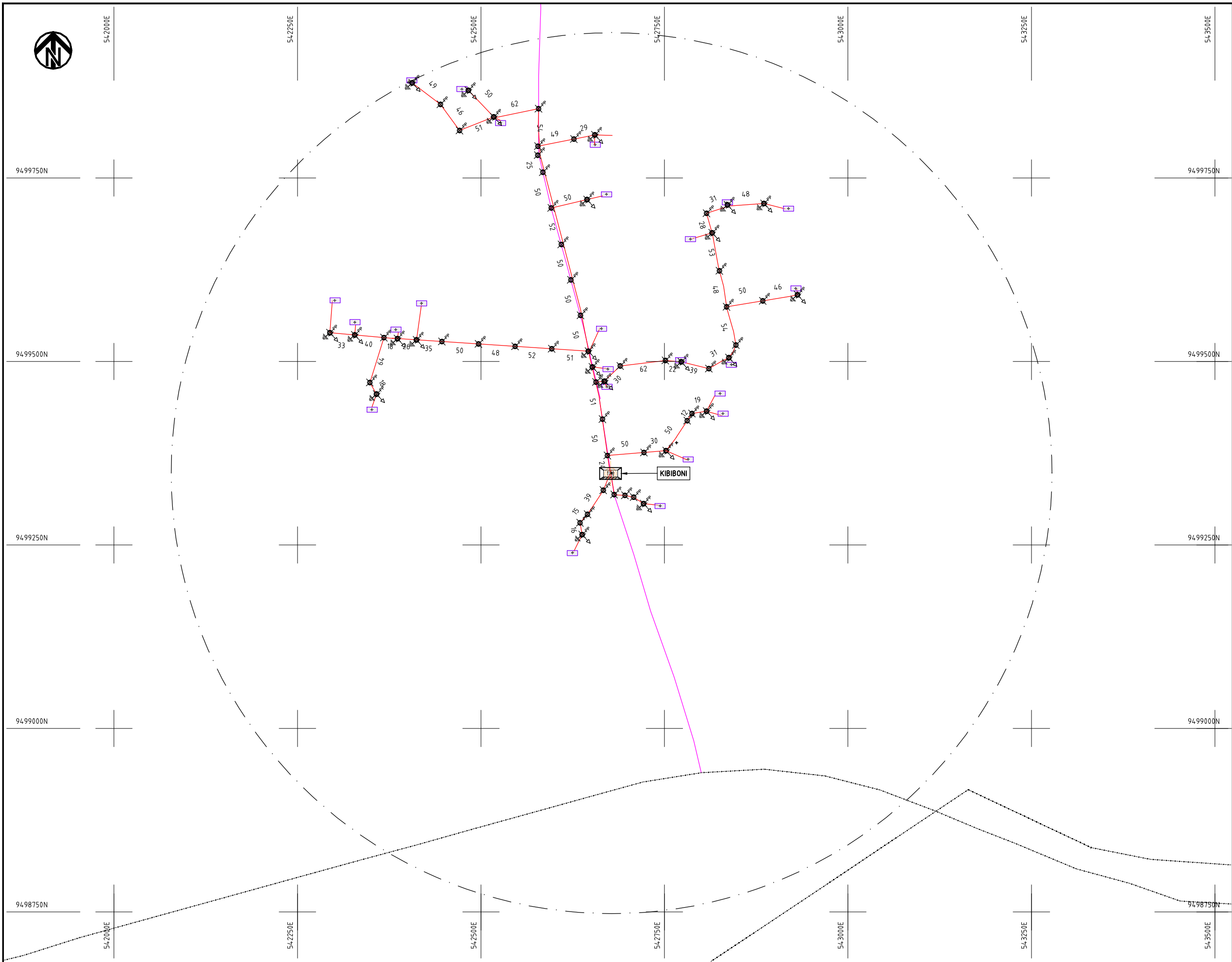
Y.TANAKA

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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP 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		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: KWALE		KWL-EX-003	CHECKED BY	S.MAETA
		SCHEME: EXTENSION			APPROVED BY	Y.TANAKA
		PROJECT SITE: KIBIBONI			DATE	10th SEP 2018



538250E

538500E

538750E

539000E

539250E

539500E

539750E

9498750N

9498750N

9498500N

9498500N

9498250N

9498250N

9498000N

9498000N

9497750N

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

(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: MKONO WA NDUGU

DRAW. NO.

KWL-EX-004

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

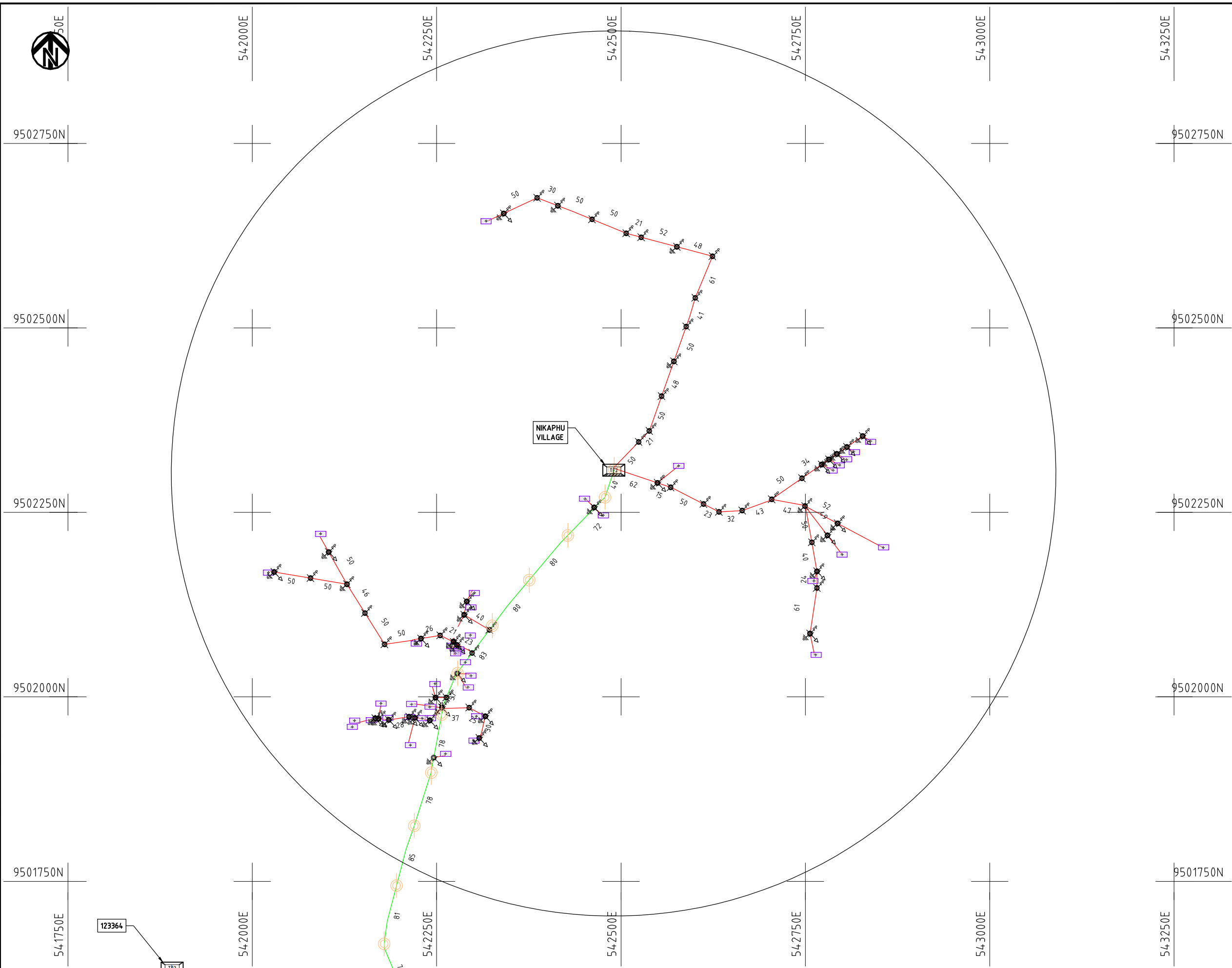
Y.TANAKA

DATE

10th SEP 2018

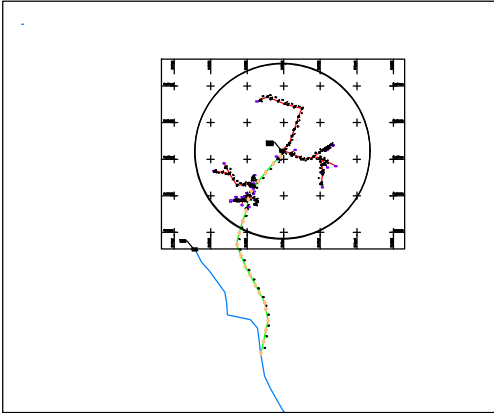


NIPPON KOEI CO., LTD



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

1:1000 (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: NIKAPHU VILLAGE

DRAW. NO.

KWL-EX-005

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



9499250N

536250E

536500E

536750E

537000E

537250E

537500E

537750E

9499000N

9499000N

9498750N

9498750N

9498500N

9498500N

9498250N

9498250N

536250E

536500E

536750E

537000E

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
- 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: MAJORENI BEFORE AIRTEL TOWER

DRAW. NO.

KWL-EX-006

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



9544250N

9544000N

9543750N

9543500N

9543250N

566500E

566750E

567000E

567250E

567500E

567750E

568000E

566750E

567000E

567250E

567500E

567750E

568000E

9544250N

9544000N

9543750N

9543500N

9543250N

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: KITEJE BOMBO VILLAGE

DRAW. NO.

KWL-EX-007

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

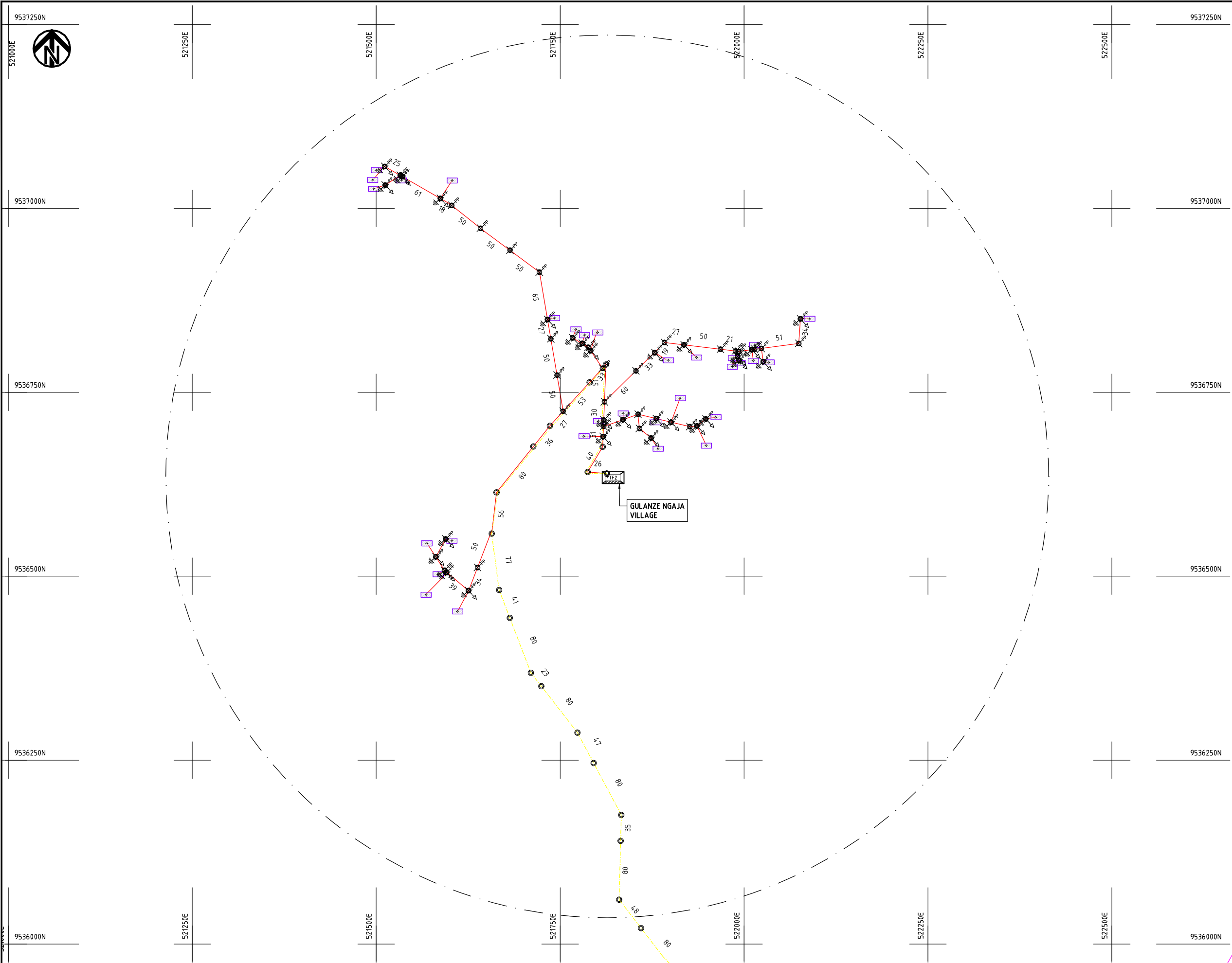
Y.TANAKA

DATE

10th SEP 2018

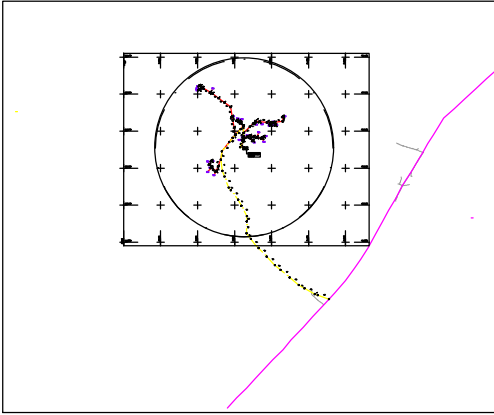


NIPPON KOEI CO., LTD



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: GULANZE NGAJA VILLAGE

DRAW. NO.

KWL-EX-008

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

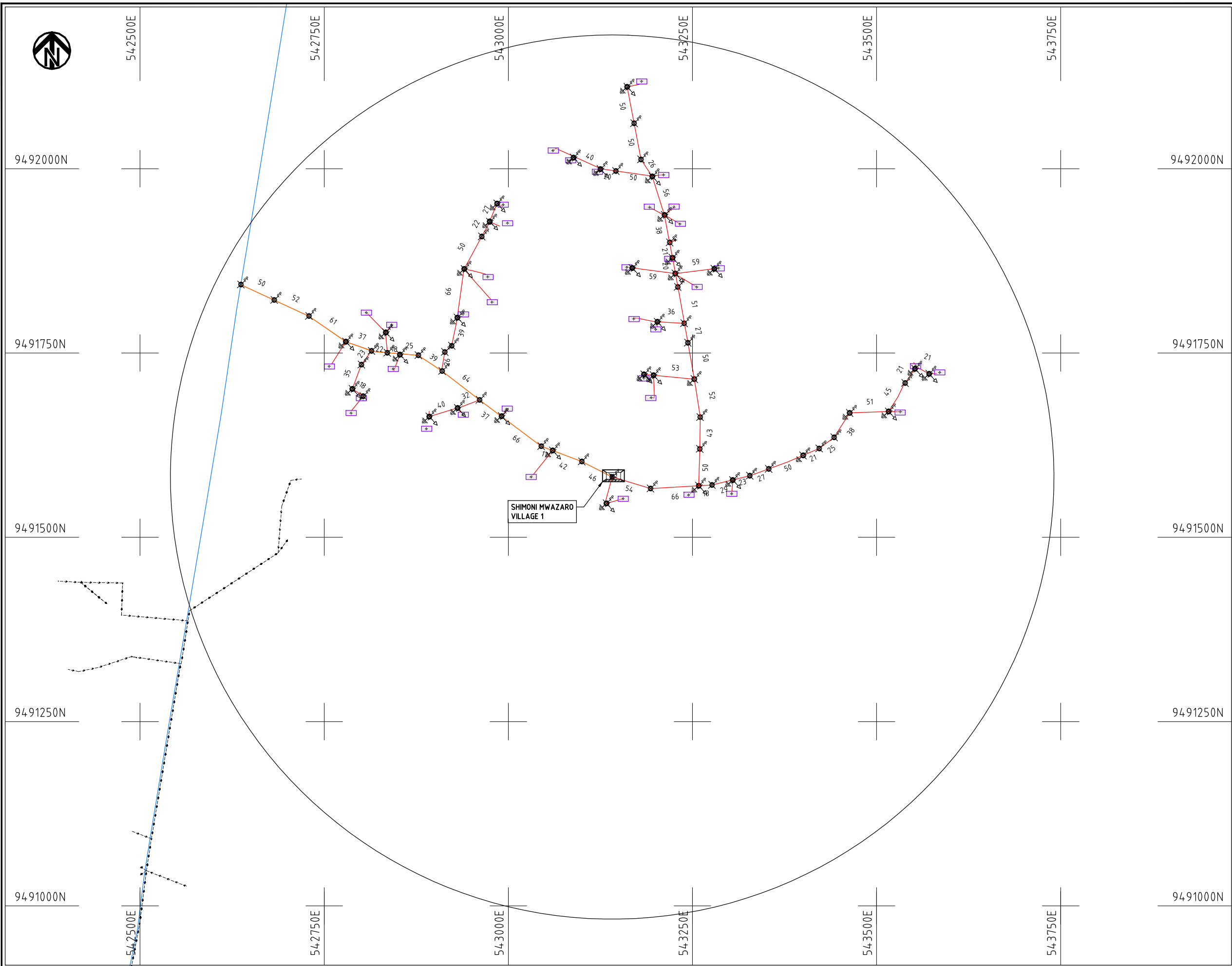
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

1:10000 (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.

- 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:	DRAWING TITLE			DRAW. NO.	PREPARED BY	A.AKBAR
				KWL-EX-009	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA			COUNTY: KWALE	NIPPON KOEI CO., LTD		
			SCHEME: EXTENSION			
			PROJECT SITE: SHIMONI MWAZARO VILLAGE			



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
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP 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: SHIMONI MWAZARO VILLAGE

DRAW. NO.

KWL-EX-010

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

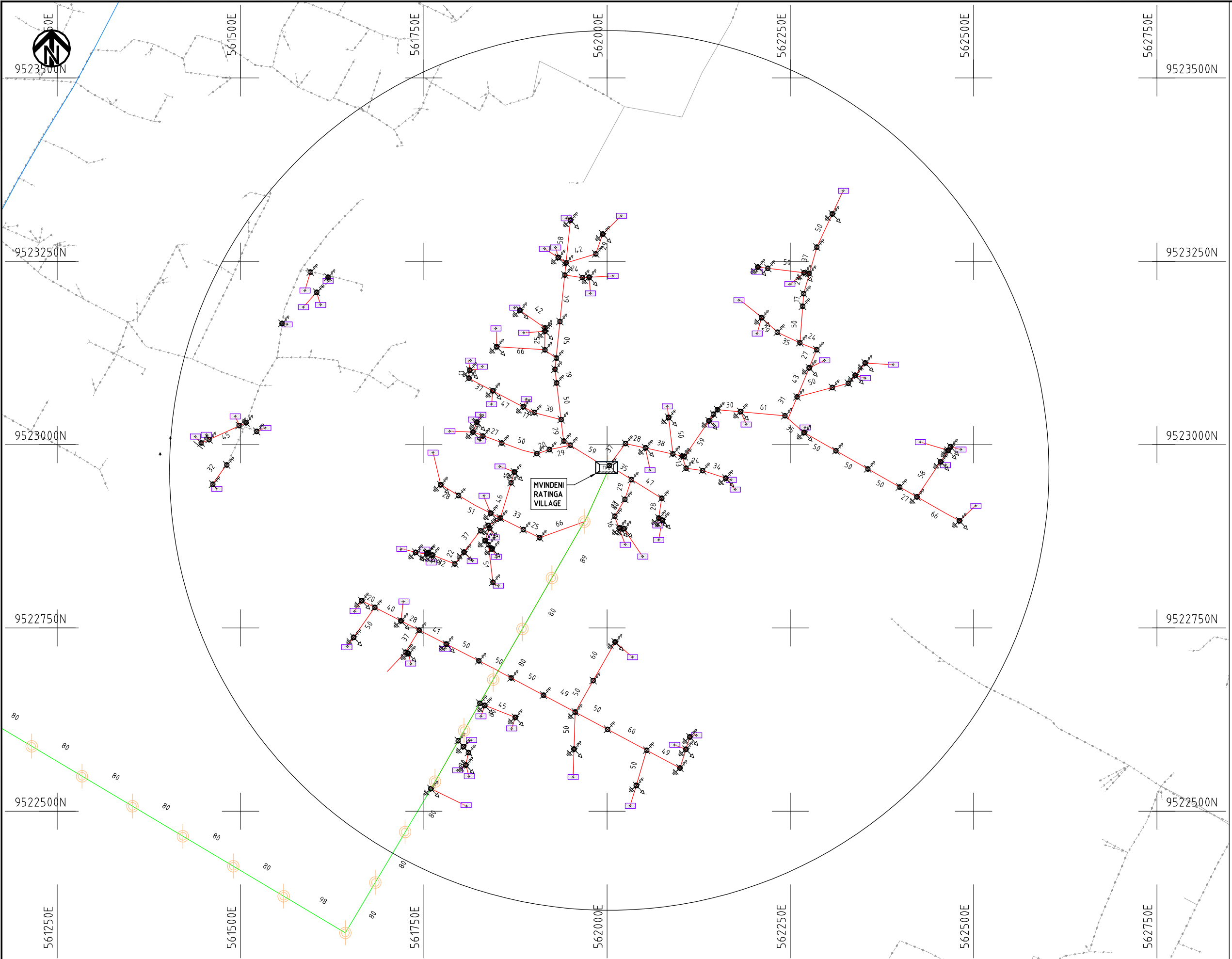
Y.TANAKA

DATE

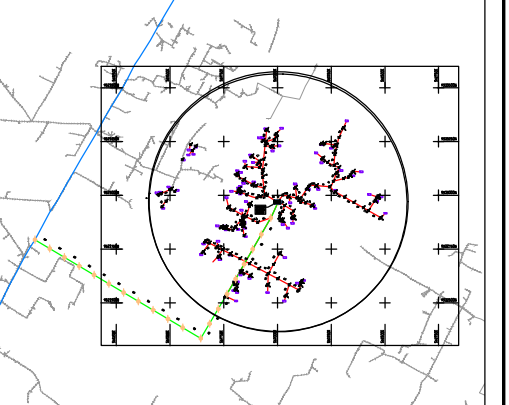
10th SEP 2018



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.

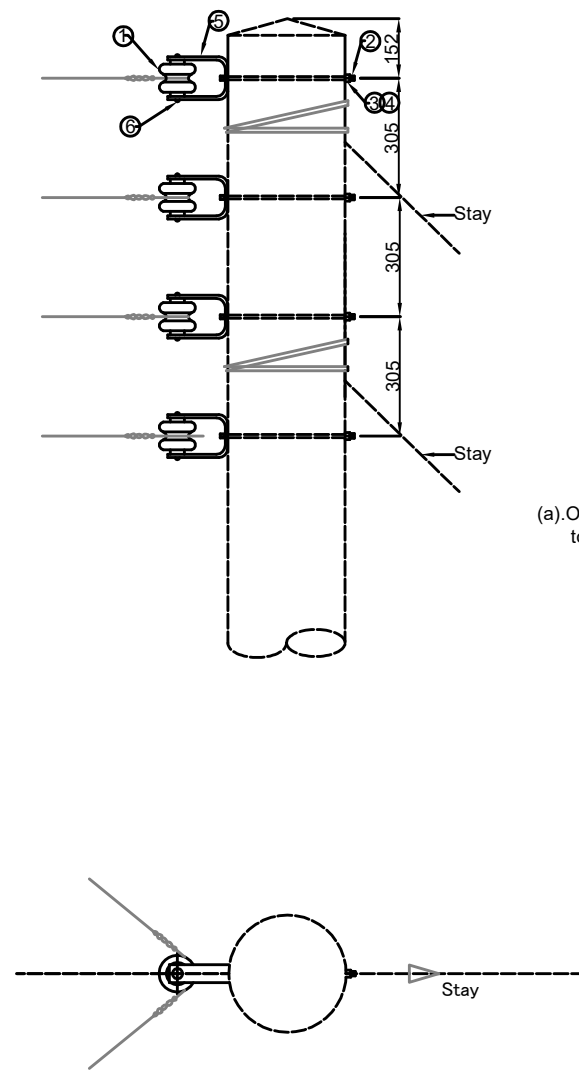


- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH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

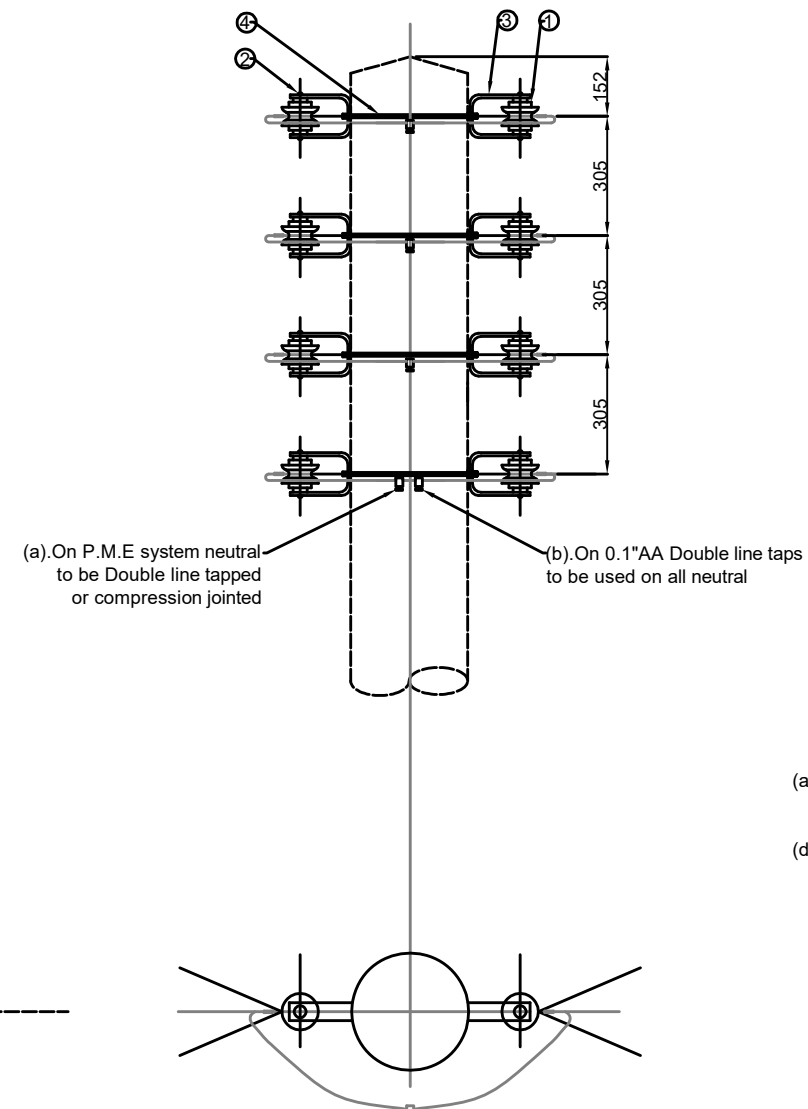
	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: KWALE		KWL-EX-011	CHECKED BY	S.MAETA
		SCHEME: EXTENSION			APPROVED BY	Y.TANAKA
		PROJECT SITE: MVINDENI RATINGA VILLAGE			DATE	10th SEP 2018

一般図

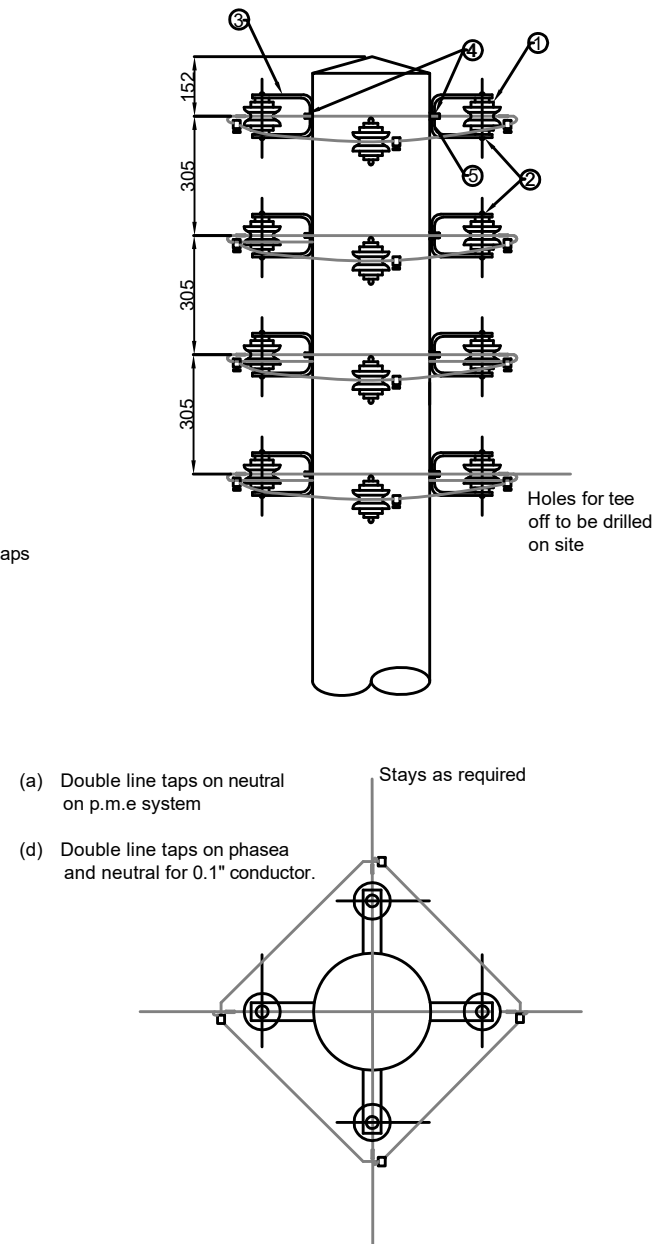
LV Intermediate pole
(Single, two and three phase)



LV Section pole
(Single, two and three phase)



Fittings LV Section pole 3 or 4 way arrangement
(Single, two and three phase)



LV Intermediate pole(Single, two and three phase)				
CU	MATERIALS			
	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)				
CU	MATERIALS			
	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
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)				
CU	MATERIALS			
	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
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

CHECKED BY

APPROVED BY

DATE

J. GEOFRY

S. MAETA

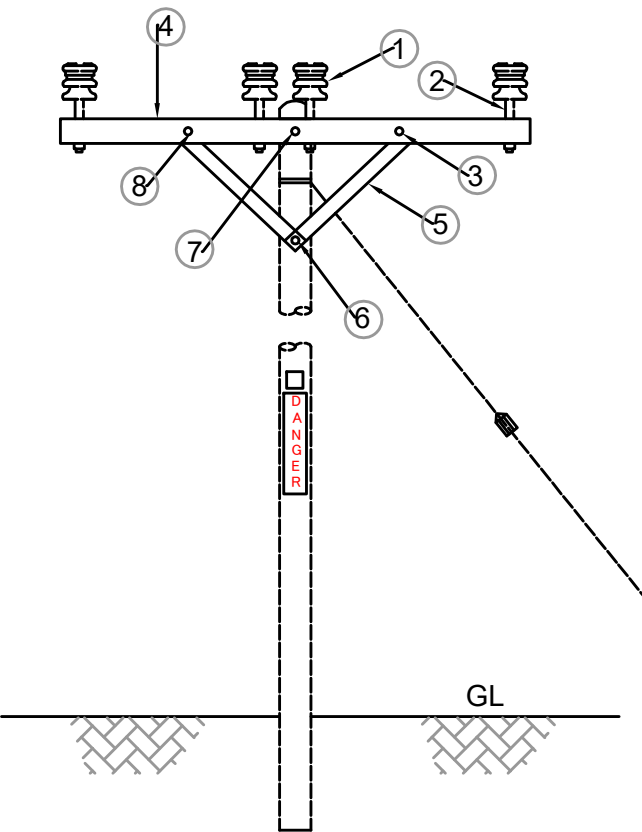
Y. TANAKA

Aug-15,2018

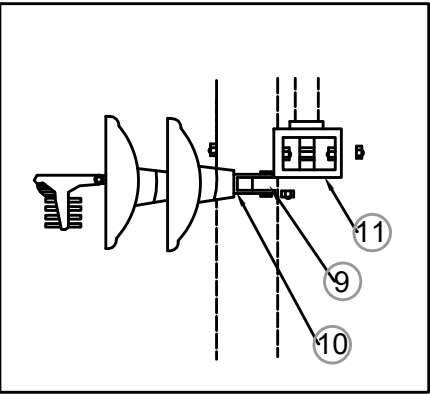
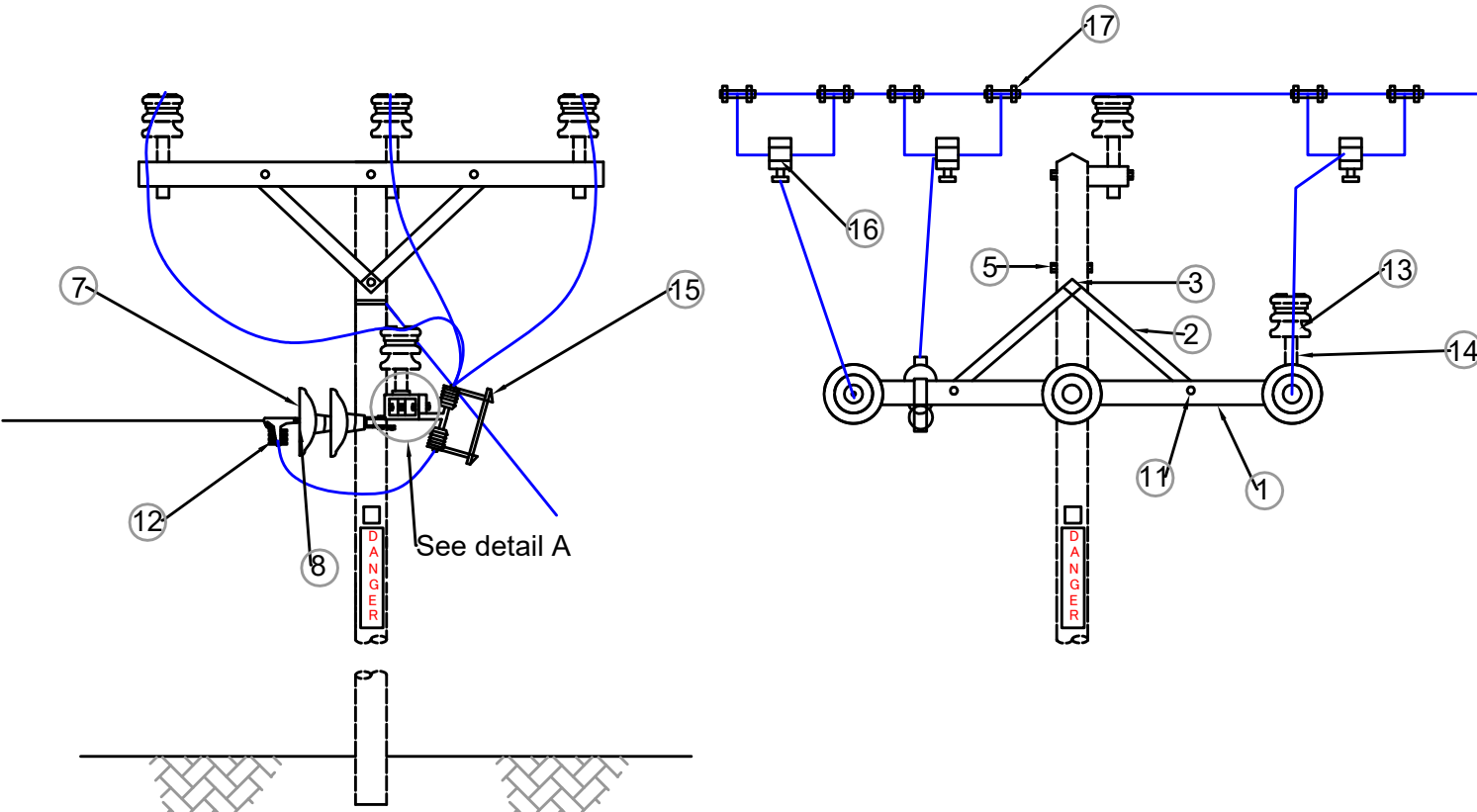


NIPPON KOEI CO., LTD

Fittings for Intermediate pole 11kV



Fittings Tee-off pole with solid links 11kV



DETAIL A

Fittings for Intermediate pole11kV				
CU	MATERIALS			
	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-armTie 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 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 end100-150mm ² 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 ²
	17	181818	6	Connector P.G. clamp 75-150mm ² cond

Scale 1:75

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

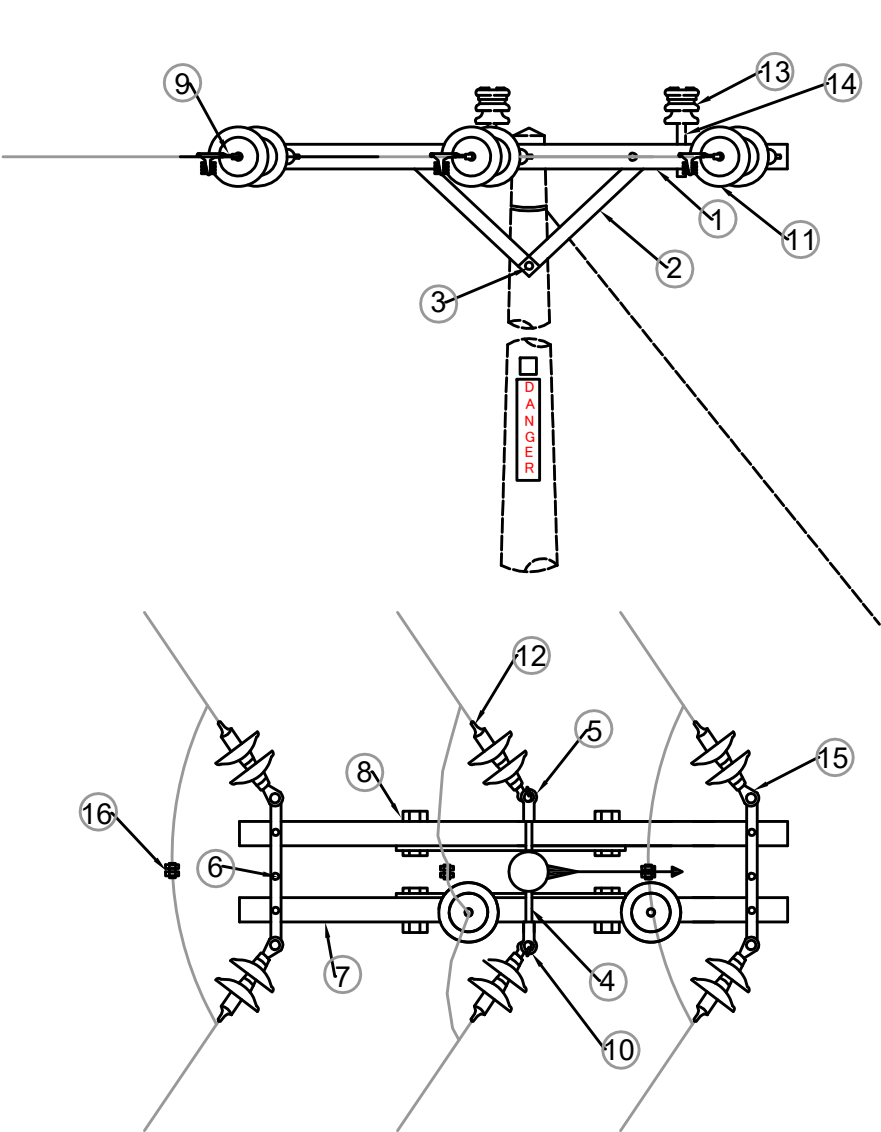
DRAWING TITLE

Typical Drawing
- 11kV Pole Fitting No.1 -

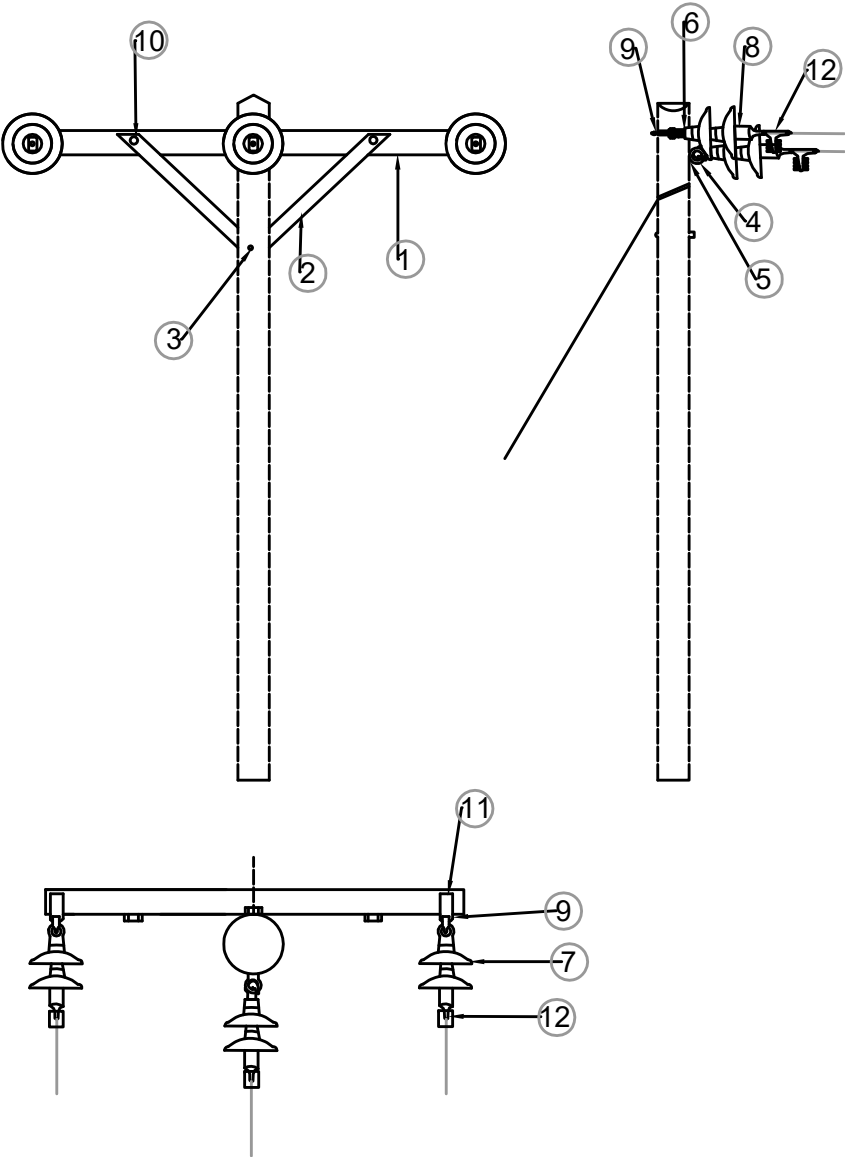
DRAW. NO.	PREPARED BY	J. GEOFRY
	CHECKED BY	S. MAETA
	APPROVED BY	Y. TANAKA
	DATE	Aug-15,2018



Fittings Horizontal Section Pole (@ < 60) 11kV



Fittings Terminal Poles (@ < 60) 11kV



Fittings Horizontal Section Pole (@ < 60) 11kV				
CU	MATERIALS			
	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 ²
	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 ² 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 ² cond
15220	Fittings Terminal Poles (@ < 60) 11kV			
	MATERIALS			
	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 ² cond.

Scale 1:75

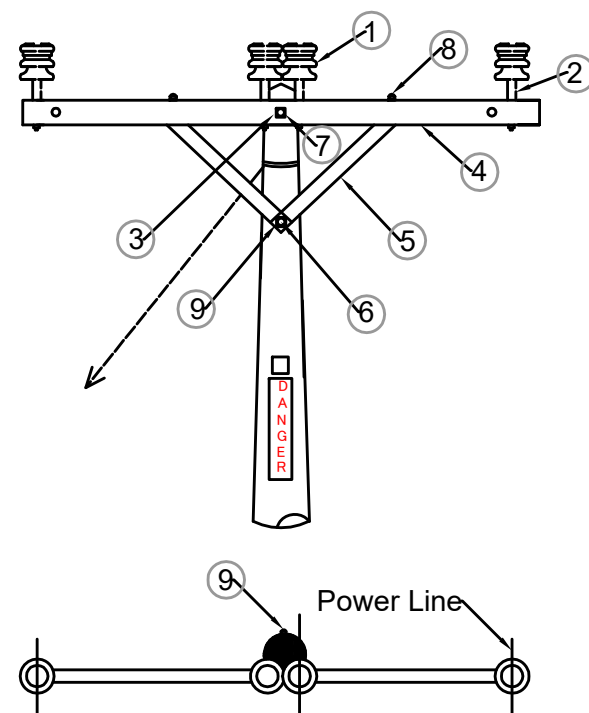
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
AROUND NAIROBI CITY
IN THE REPUBLIC OF KENYA

DRAWING TITLE
Typical Drawing
- 11kV Pole Fitting No.2 -

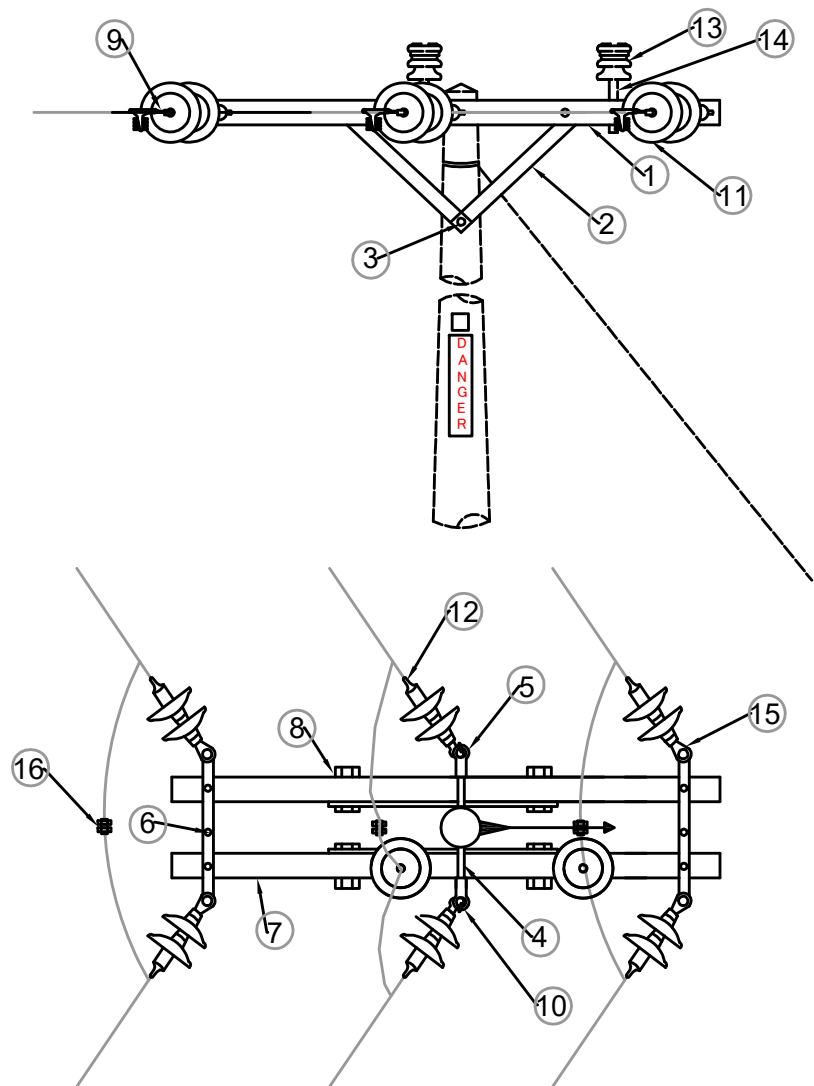
DRAW. NO. TD-03
PREPARED BY J. GEOFRY
CHECKED BY S. MAETA
APPROVED BY Y. TANAKA
DATE Aug-15,2018



Fittings Intermediate and light angle pole 33kV



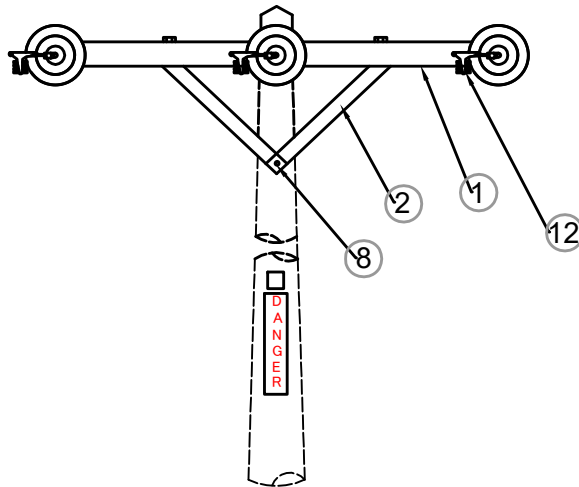
Fittings Horizontal Section Pole (@ < 60) 33kV



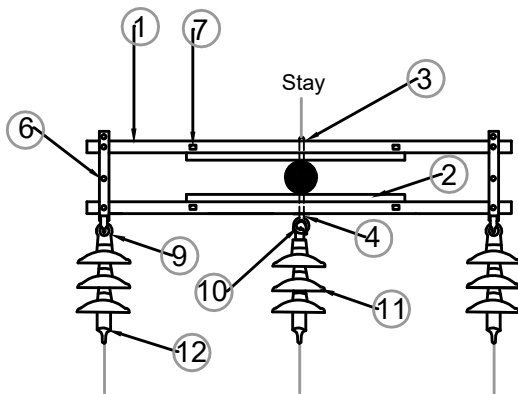
Fittings Intermediate and light angle pole 33kV				
CU	MATERIALS			
	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
10380	1	184813	3	Insulator Pin 33kV
	2	187727	3	Spindle 33kV
	3	189626	3	Washer flat M20x64mm (tie strap)
	4	182940	1	Crossarm wood 8'8" x 5" x 4"
	5	188108	2	Tie strap angle steel 33kV
	6	180841	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				
CU	MATERIALS			
	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 ²
	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 ² 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 ² cond

Scale 1:75

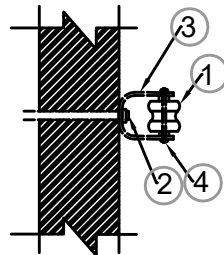
Fittings Terminal Poles (@ < 60) 33kV



Fittings Horizontal Section Pole (@ < 60) 33kV				
CU	MATERIALS			
	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 ²
	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 ² cond.

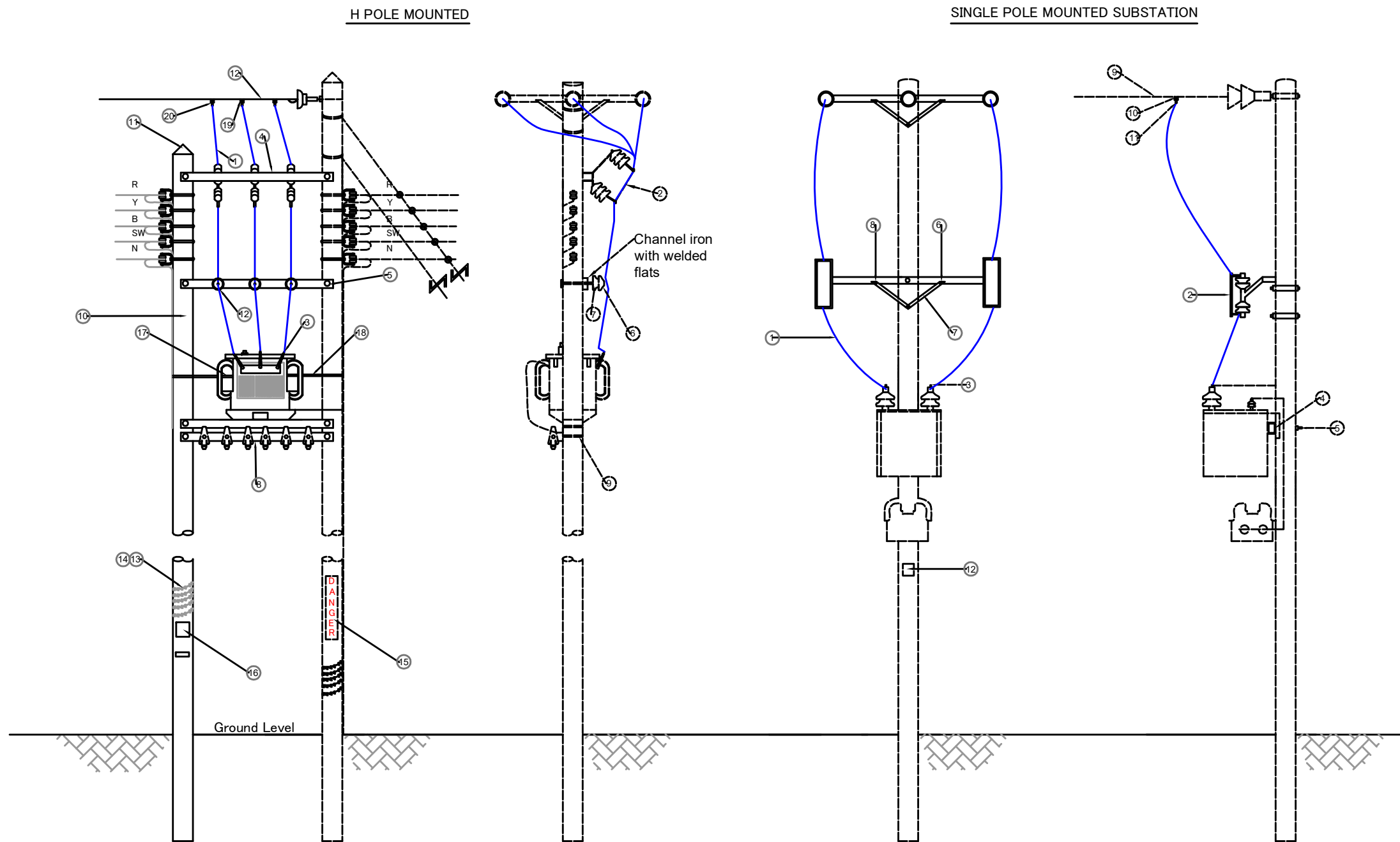


Service lines wall fittings



Service Lines Fittings				
CU	MATERIALS			
	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
10210	1	184836	1	Insulator Shackle, 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



H POLE MOUNTED

MATERIALS				
CU	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
08030	1	182534	12m	Cable 50mm ² s/c Cu. PVC(19/ 064)
	2	185135	3	Isolator Solid link 33kv
	3	146220	3	Connector lug brass solder 70mm ² (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 ² AA HD bare
	20	188757	3	Connector live line tap 50mm ²

SINGLE POLE MOUNTED SUBSTATION

MATERIALS				
CU	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
08070	1	182534	12m	Cable 50mm ² s/c Cu. PVC(19/ 064)
	2	188447	3	Isolator Solid link 11kv
	3	146220	3	Connector lug brass solder 70mm ² (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 11/2")
	9	189705	12m	Binding wire No 9 AIPVC
	10	182402	1.5m	Conductor 50mm ² AA HD bare
	11	188757	3	Connector live line tap 50mm ²
	12	---	1	Plate substation number

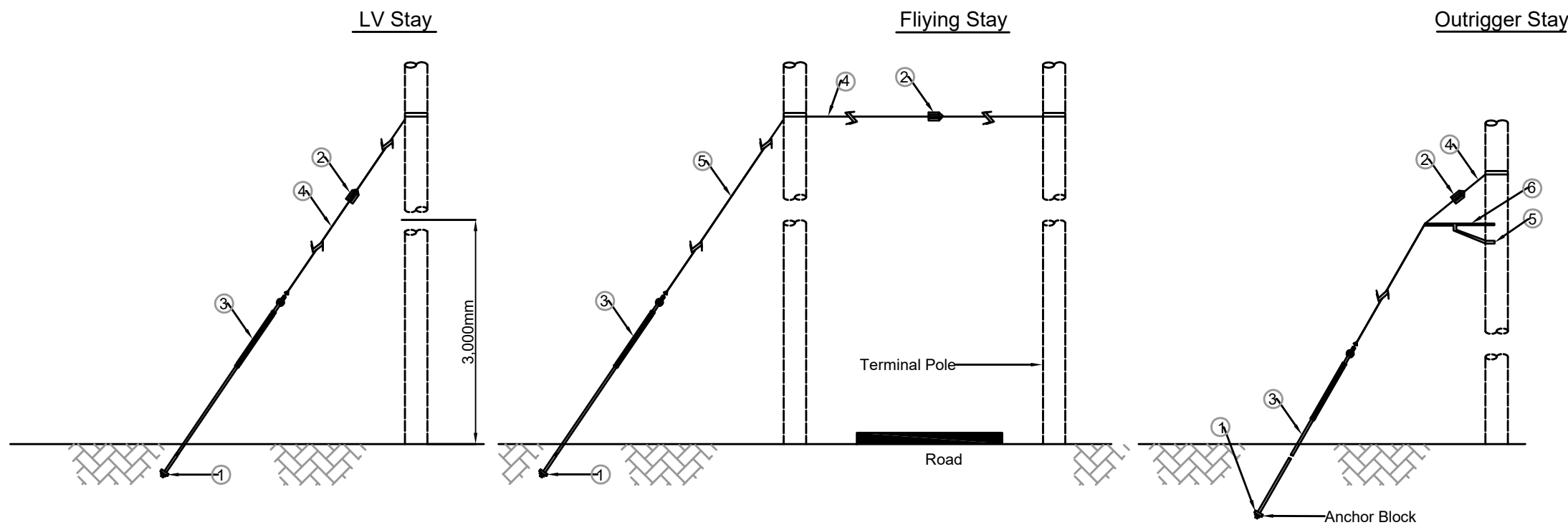
Scale 1:75

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





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	Turnbuckel 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

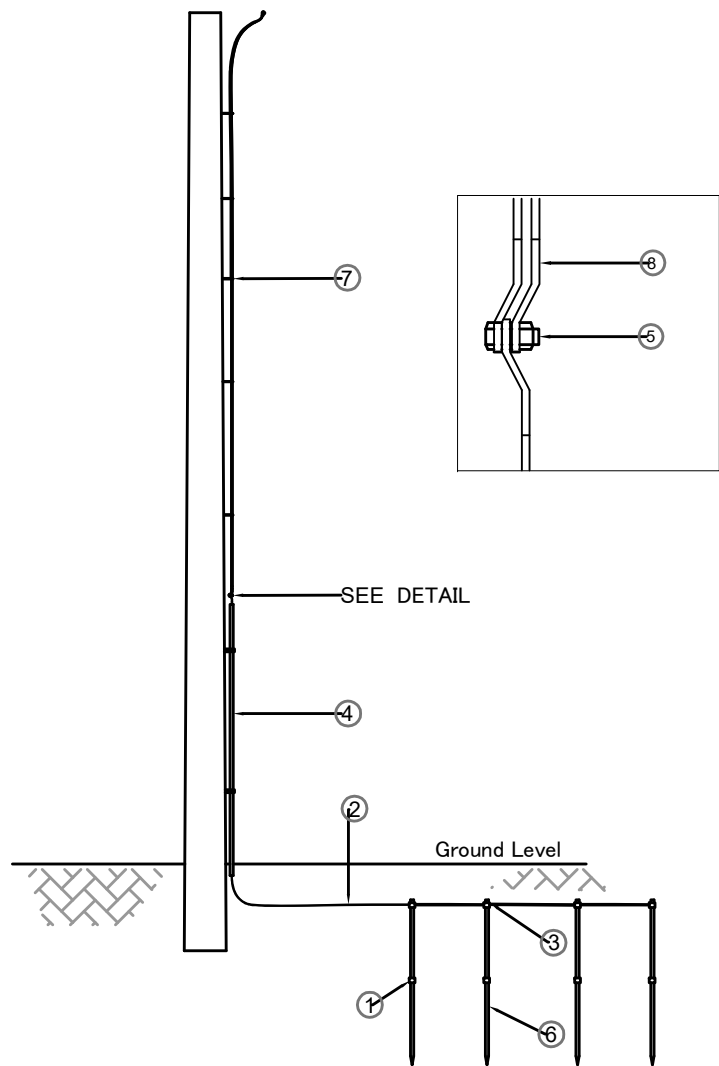
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Aug-15,2018

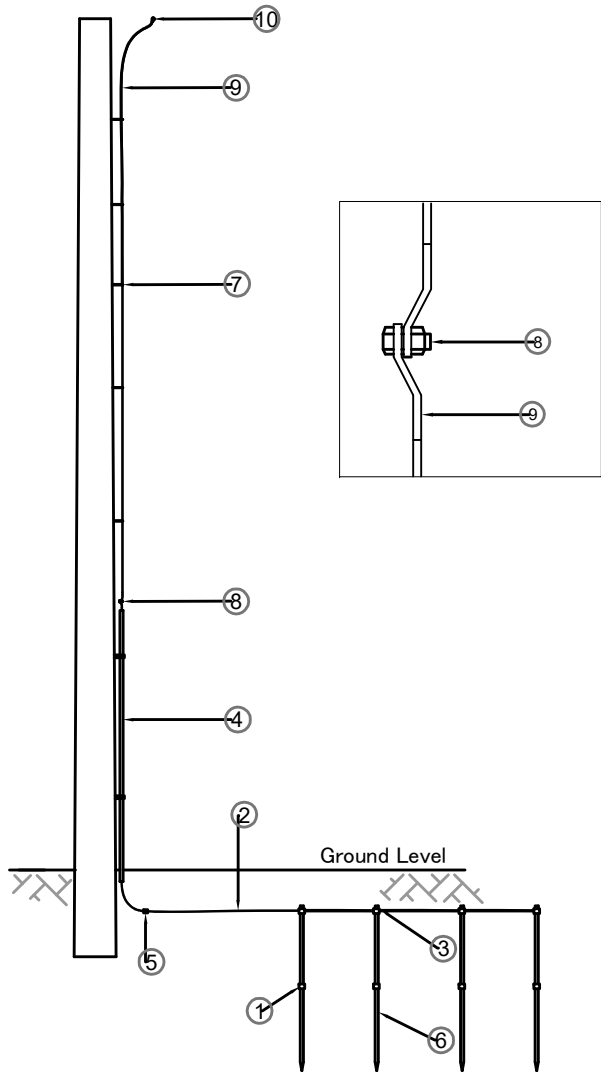


NIPPON KOEI CO., LTD

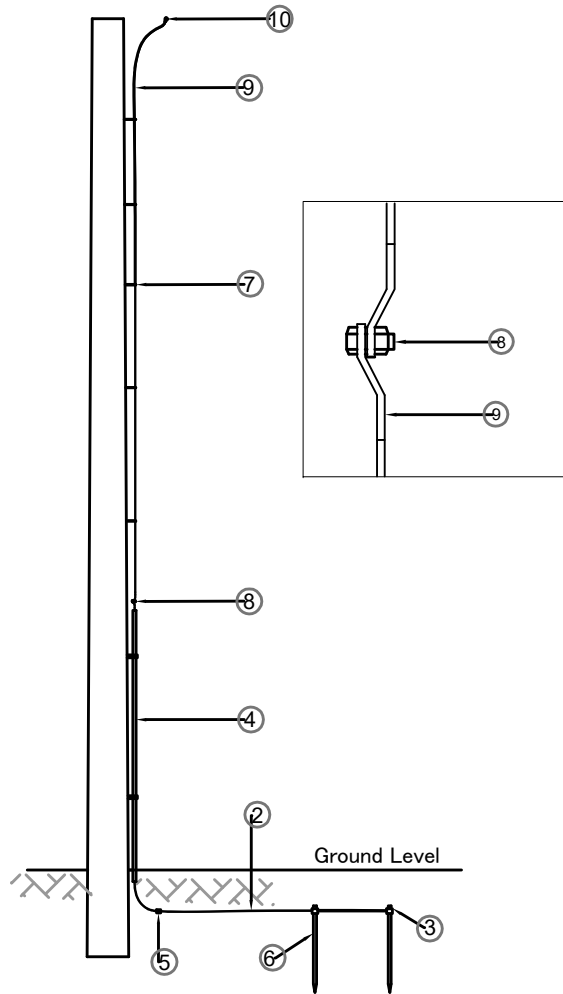
MEDIUM VOLTAGE SUBSTATION
EARTH/SURGE EARTH



LOW VOLTAGE EARTHING



PROTECTIVE MULTIPLE EARTH



MEDIUM VOLTAGE SUBSTATION EARTH/SURGE EARTH				
CU	MATERIALS			
	MARK IN SKETCH	CODE	QUANTITY	DESCRIPTION
14010	1	186546	4	Couplings for earth rods 1/2"
	2	182534	20	Cable50mm ² 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 ² (8D)
	9	134301	0.1kg	Clout nails 1"
LOW VOLTAGE EARTHING				
14030	MATERIALS			
	1	186546	4	Couplings for earth rods 1/2"
	2	182534	12	Cable50mm ² 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 ² 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 ² (8D)
	10	188743	1	Connector line tap Al. 100mm ²
	11	134301	0.1kg	Clout nails 1"
PROTECTIVE MULTIPLE EARTH				
14060	MATERIALS			
	2	182534	12	Cable50mm ² 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 ² 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 ² (8D)
	10	188743	1	Connector line tap Al. 100mm ²
	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

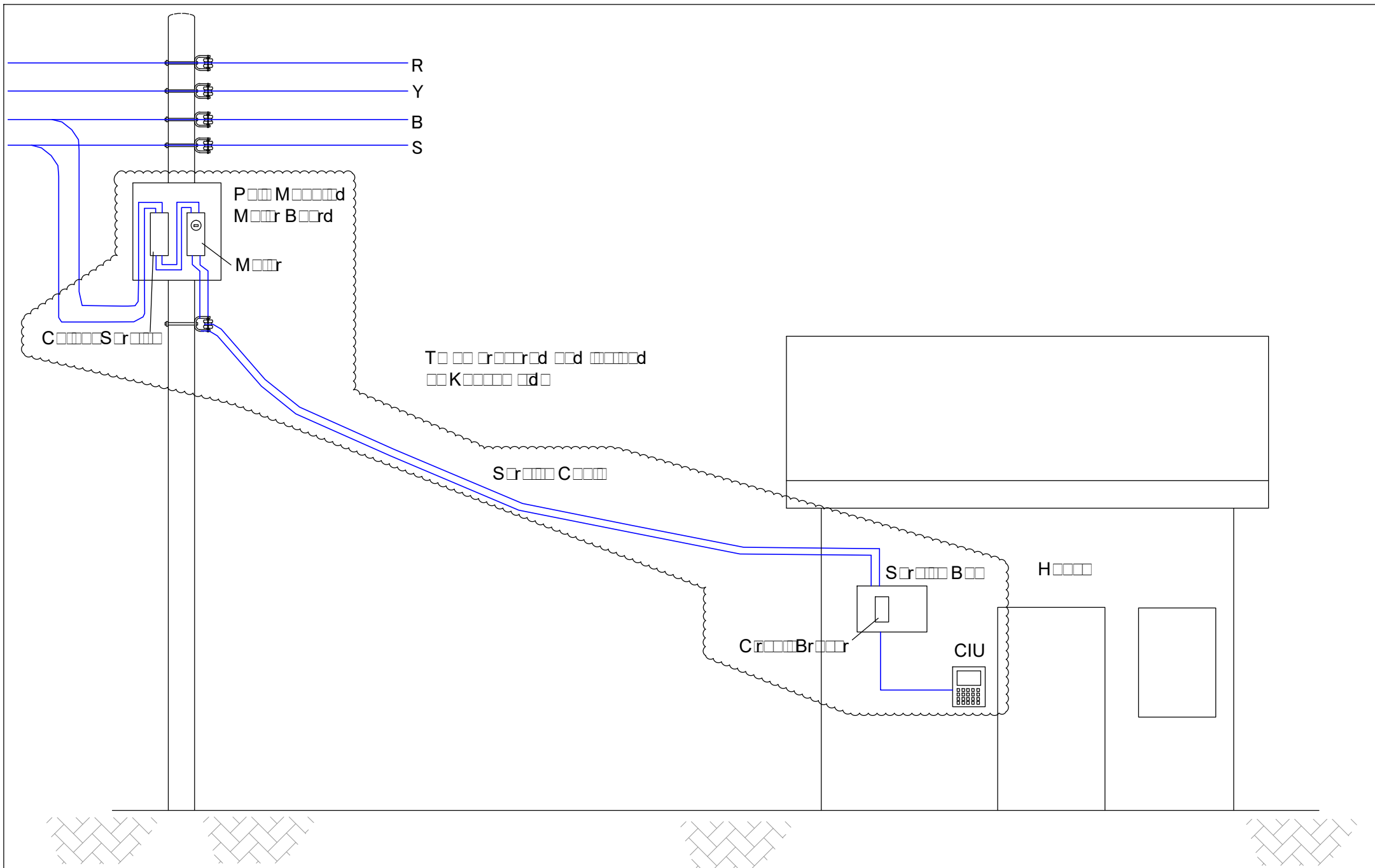
Y. TANAKA

DATE

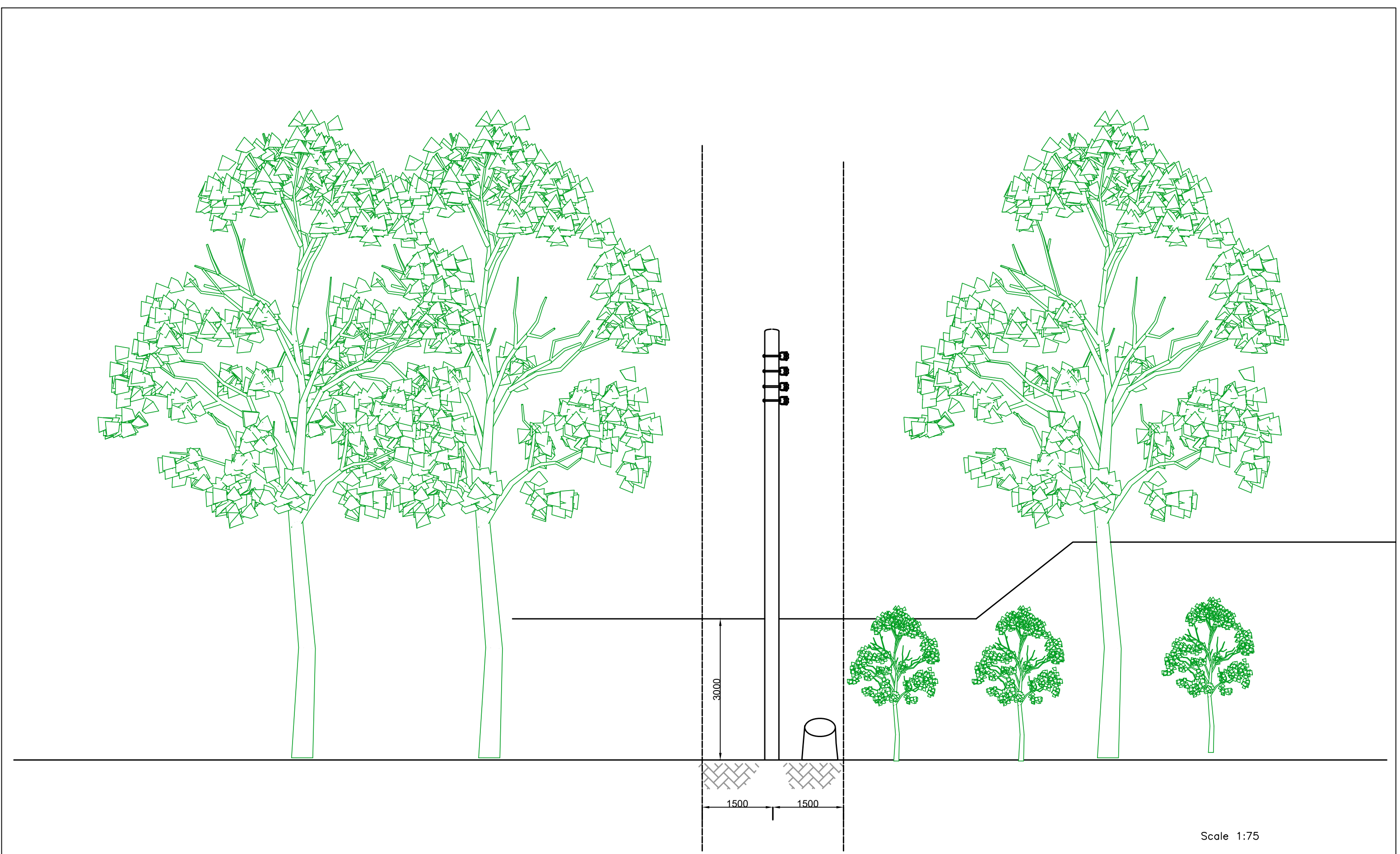
Aug-15,2018



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	THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM AROUND NAIROBI CITY IN THE REPUBLIC OF KENYA	DRAWING TITLE	DRAW. NO.	PREPARED BY	J. GEOFRY	 NIPPON KOEI CO., LTD
		Typical Drawing - Service Line -	TD-09	CHECKED BY	S. MAETA	
				APPROVED BY	Y. TANAKA	
				DATE	Aug-15,2018	



	THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM AROUND NAIROBI CITY IN THE REPUBLIC OF KENYA	DRAWING TITLE	DRAW. NO.	PREPARED BY	J. GEOFRY	 NIPPON KOEI CO., LTD
		Typical Drawing - Tree Cutting -	TD-10	CHECKED BY	S. MAETA	
				APPROVED BY	Y. TANAKA	
				DATE	Aug-15,2018	