

REPUBLIC OF UGANDA



VOLUME 4-2: BOOK OF DRAWINGS
(BUSOLWE TRANSMISSION MAINS - LAYOUTS)

INTEGRATED WATER MANAGEMENT AND DEVELOPMENT PROJECT (IWMDP)

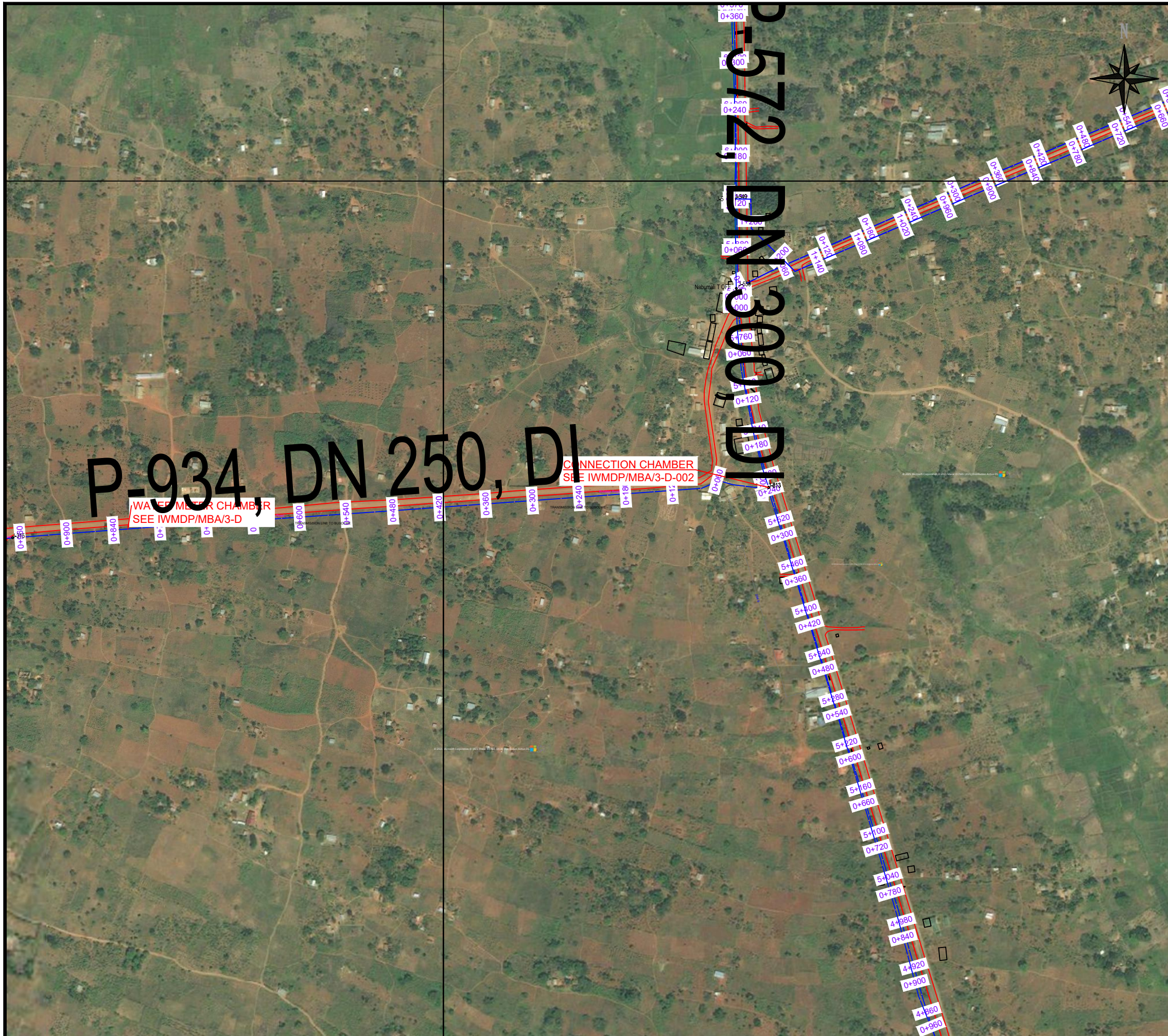
**CONSTRUCTION OF BUTALEJA AND BUSOLWE WATER SUPPLY AND
SANITATION SYSTEM**

CONTRACT NO: MWE/WRKS/21-22/00005/2

SUBMITTED BY:



JULY 2022



| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A/C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Outs |
| | Fire Hydrants |
| | Disconnections |
| | Public stand Post |
| | Land Marks |

| KEY MAP | |
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| | |

REPUBLIC OF UGANDA

MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUTALEJA AND BUSOLWE

CONSULTANT:

saman
Saman Corp.

CHEIL
ENGINEERS

AWE
Engineers

Drawing Title:
TRANSMISSION LINE TO BUSOLWE

| | |
|---------------------------------|---------------------|
| Drawn by : Andrew Turyakira | Approved by: |
| Checked by: Dr. Ronald Musenze | Dongwoon OH |
| Scale: As Indicated | Date: December 2021 |
| Drawing No.: IWMDP/MBA/ 3-P-001 | |
| Sheet No.: 1/25 | Format: A3 |



P-934, DN 25
 WATER METER CHAMBER
 SEE IWMDP/MBA/3-D

| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A.C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Outs |
| | Fire Hydrants |
| | Disconnections |
| | Public stand Post |
| | Land Marks |

| KEY MAP | |
|---------|--|
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REPUBLIC OF UGANDA

MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
 CONSTRUCTION WORKS FOR WATER SUPPLY AND
 SANITATION SYSTEM IN SMALL TOWNS OF
 BUTALEJA AND BUSOLWE

CONSULTANT:

Drawing Title:
TRANSMISSION LINE TO BUSOLWE

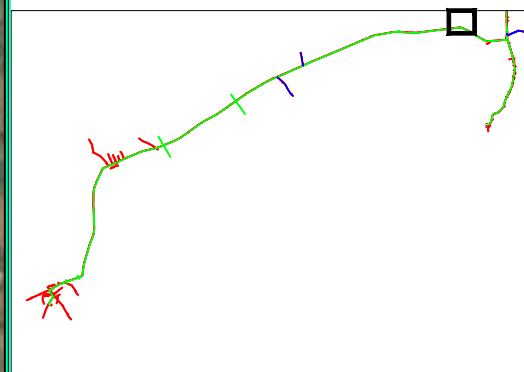
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|---------------------------------|---------------------|
| Drawn by : Andrew Turyakira | Approved by: |
| Checked by: Dr. Ronald Musenze | Dongwoon OH |
| Scale: As Indicated | Date: December 2021 |
| Drawing No.: IWMDP/MBA/ 3-P-001 | |
| Sheet No.: 2/25 | Format: A3 |



LEGEND

| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Outs |
| | Fire Hydrants |
| | Disconnections |
| | Public stand Post |
| | Land Marks |

KEY MAP



REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND
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CONSULTANT:



Drawing Title:
TRANSMISSION LINE TO BUSOLWE

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| Drawing No.: IWMDP/MBA/ 3-P-001 | |
| Sheet No.: 3/25 | Format: A3 |



LEGEND

| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Outs |
| | Fire Hydrants |
| | Disconnections |
| | Public stand Post |
| | Land Marks |

KEY MAP

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MINISTRY OF WATER AND ENVIRONMENT

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CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUTALEJA AND BUSOLWE

CONSULTANT:

Drawing Title:
TRANSMISSION LINE TO BUSOLWE

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| Drawing No.: IWMDP/MBA/ 3-P-001 | |
| Sheet No.: 4/25 | Format: A3 |



LEGEND

| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Outs |
| | Fire Hydrants |
| | Disconnections |
| | Public stand Post |
| | Land Marks |

KEY MAP

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MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND
SANITATION SYSTEM IN SMALL TOWNS OF
BUTALEJA AND BUSOLWE

CONSULTANT:

Drawing Title:
TRANSMISSION LINE TO BUSOLWE

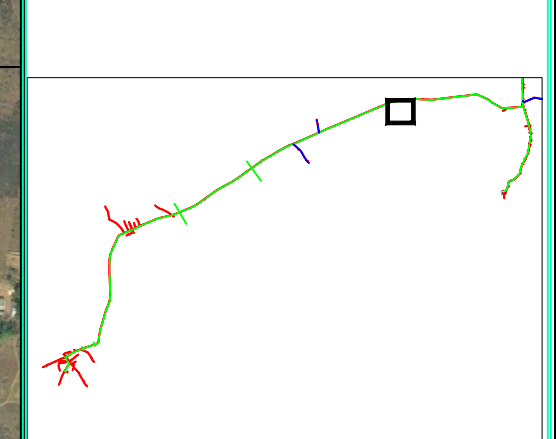
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| Sheet No.: 5/25 | Format: A3 |



LEGEND

| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Outs |
| | Fire Hydrants |
| | Disconnections |
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KEY MAP



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MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND
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CONSULTANT:





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| Drawing No.: IWMDP/MBA/ 3-P-001 | |
| Sheet No.: 6/25 | Format: A3 |



LEGEND

| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A/C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Outs |
| | Fire Hydrants |
| | Disconnections |
| | Public stand Post |
| | Land Marks |

KEY MAP

REPUBLIC OF UGANDA

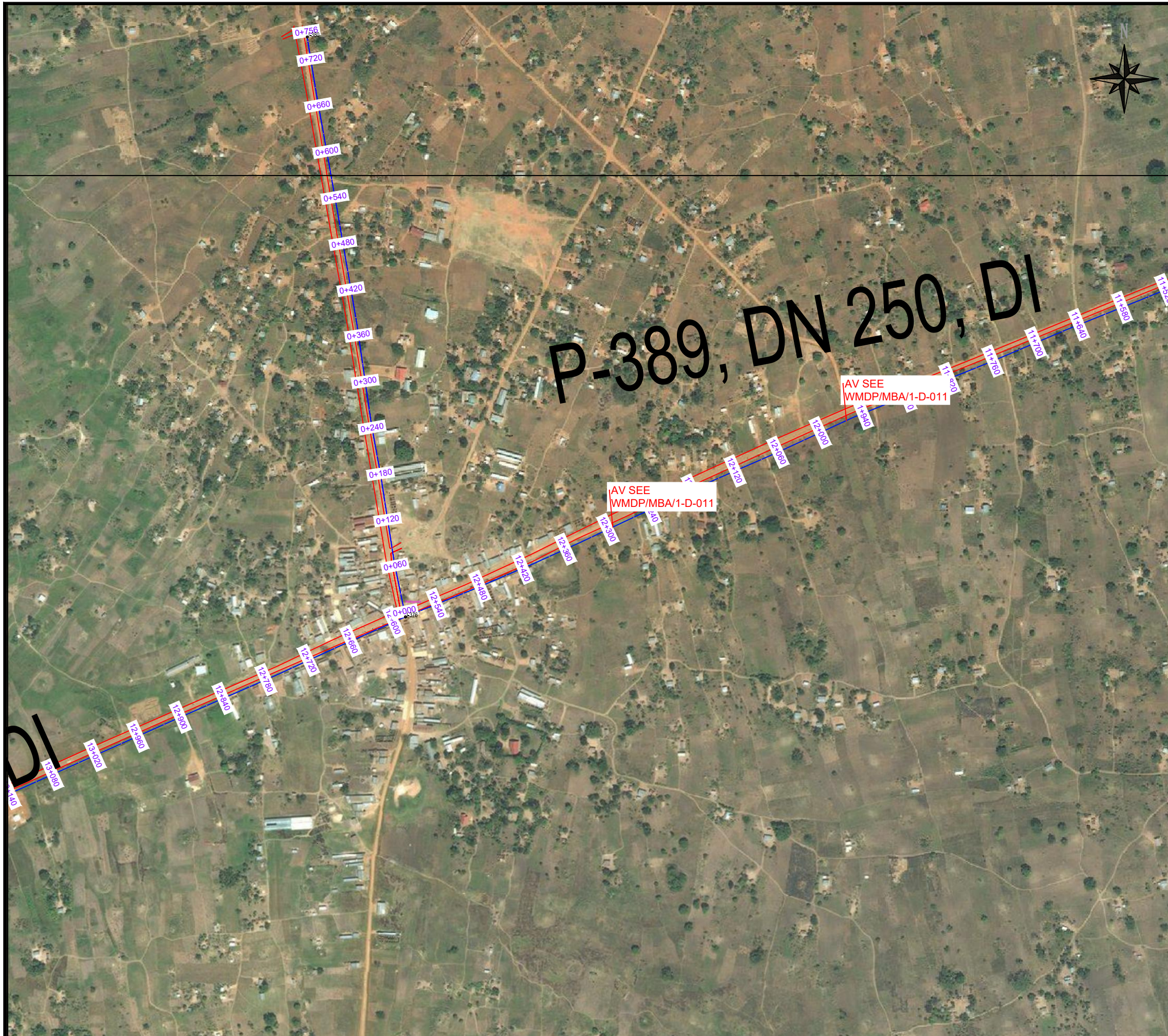
MINISTRY OF WATER AND ENVIRONMENT

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| Sheet No.: 7/25 | Format: A3 |



P-389, DN 250, DI

LEGEND

| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Outs |
| | Fire Hydrants |
| | Disconnections |
| | Public stand Post |
| | Land Marks |

KEY MAP

REPUBLIC OF UGANDA

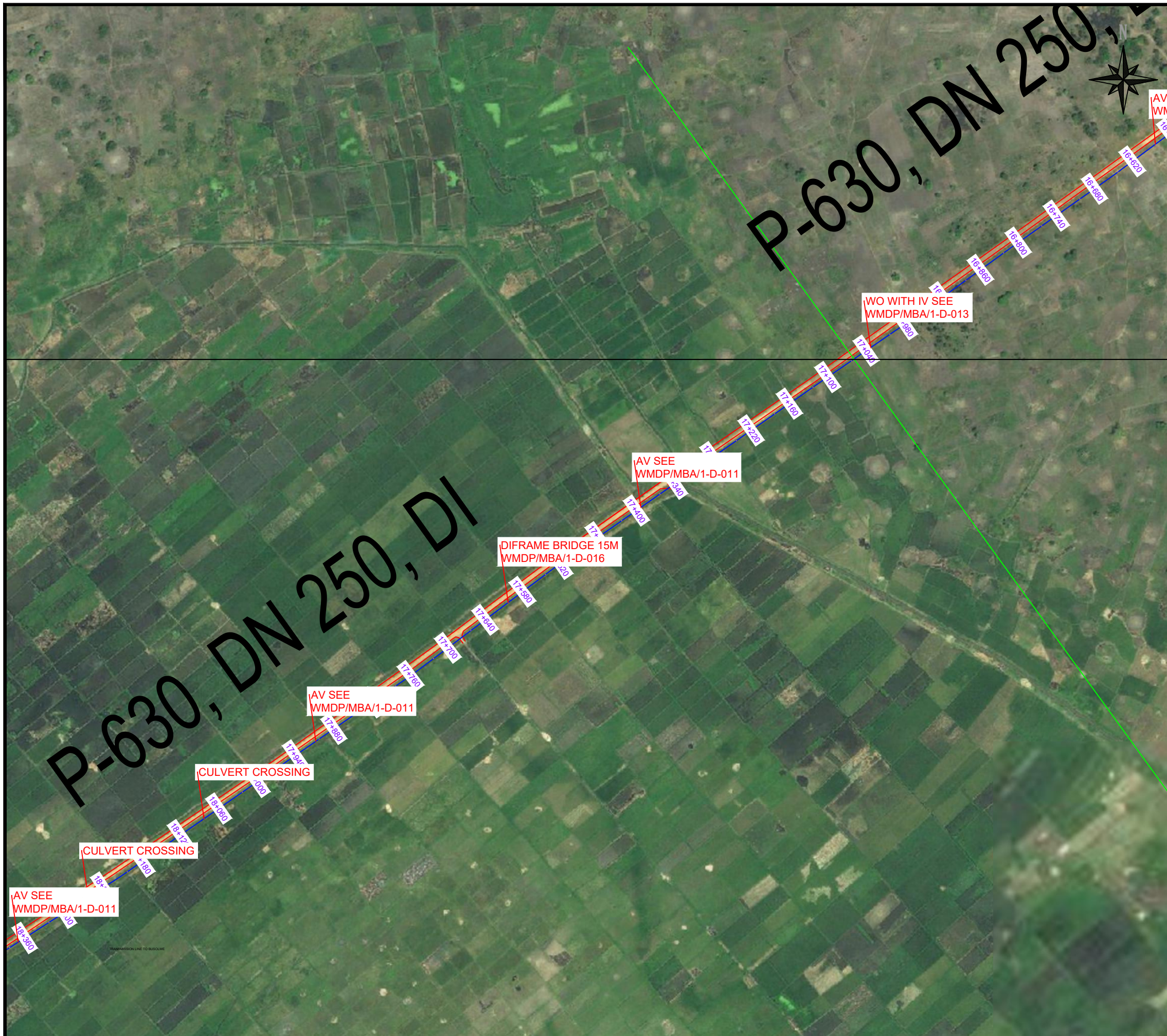
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUTALEJA AND BUSOLWE

CONSULTANT:

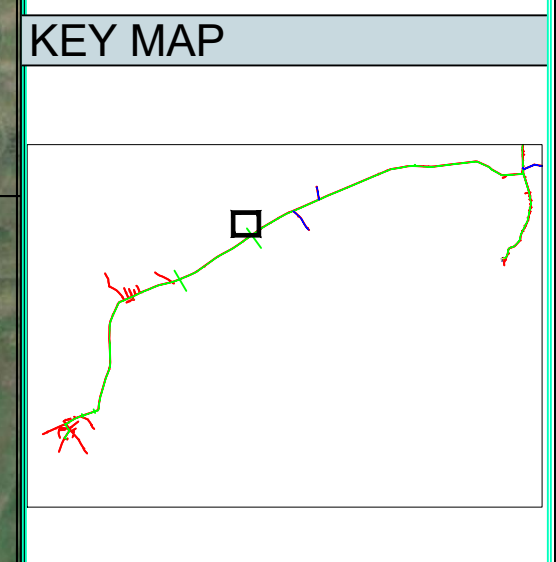
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TRANSMISSION LINE TO BUSOLWE

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| Sheet No.: 8/25 | Format: A3 |




LEGEND

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| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | AV-4 Air Valves |
| | WO-2 Wash Outs |
| | FH-17 Fire Hydrants |
| | Dis-15 Disconnections |
| | PSP Public Stand Post |
| | ROAD Land Marks |



REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND
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CONSULTANT:





Drawing Title:
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| Drawing No.: IWMDP/MBA/ 3-P-001 | |
| Sheet No.: 9/25 | Format: A3 |



LEGEND

| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Outs |
| | Fire Hydrants |
| | Disconnections |
| | Public stand Post |
| | Land Marks |

KEY MAP

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| Drawing No.: IWMDP/MBA/ 3-P-001 | |
| Sheet No.: 10/25 | Format: A3 |



LEGEND

| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A/C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Cuts |
| | Fire Hydrants |
| | Disconnections |
| | Public Stand Post |
| | Land Marks |

KEY MAP

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MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
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SANITATION SYSTEM IN SMALL TOWNS OF
BUTALEJA AND BUSOLWE

CONSULTANT:

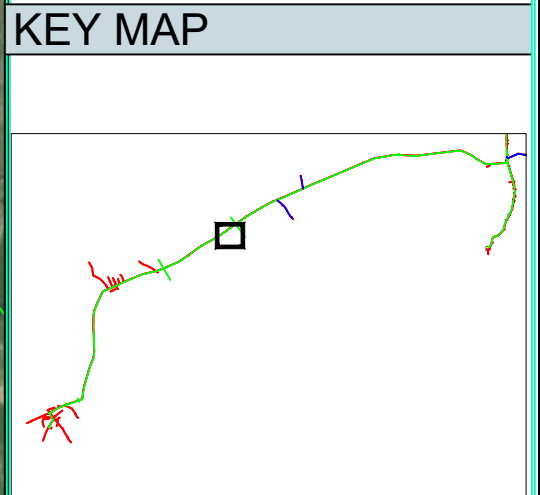
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| Sheet No.: 11/25 | Format: A3 |




LEGEND

| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | AV-2 Air Valves |
| | WO-2 Wash Outs |
| | FH-17 Fire Hydrants |
| | Dis-15 Disconnections |
| | PSP Public Stand Post |
| | ROAD Land Marks |



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MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND
SANITATION SYSTEM IN SMALL TOWNS OF
BUTALEJA AND BUSOLWE

CONSULTANT:





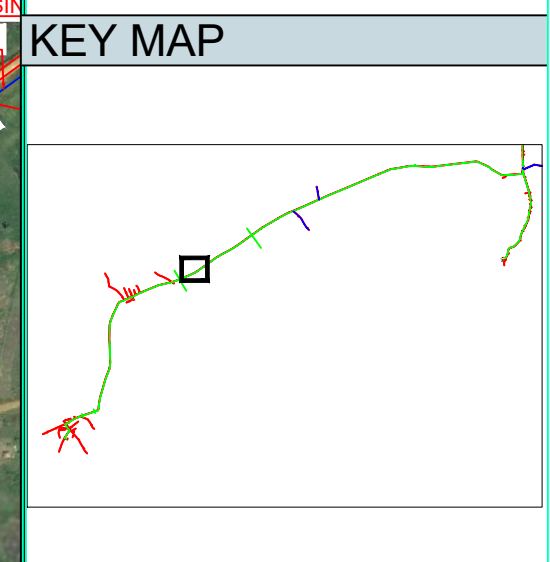
Drawing Title:
TRANSMISSION LINE TO BUSOLWE

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| Scale: As Indicated | Date: December 2021 |
| Drawing No.: IWMDP/MBA/ 3-P-001 | |
| Sheet No.: 12/25 | Format: A3 |



LEGEND

| | |
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| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A/C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Cuts |
| | Fire Hydrants |
| | Disconnections |
| | Public stand Post |
| | Land Marks |



REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND
SANITATION SYSTEM IN SMALL TOWNS OF
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CONSULTANT:





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| Sheet No.: 13/25 | Format: A3 |



LEGEND

| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Outs |
| | Fire Hydrants |
| | Disconnections |
| | Public stand Post |
| | Land Marks |

KEY MAP

REPUBLIC OF UGANDA

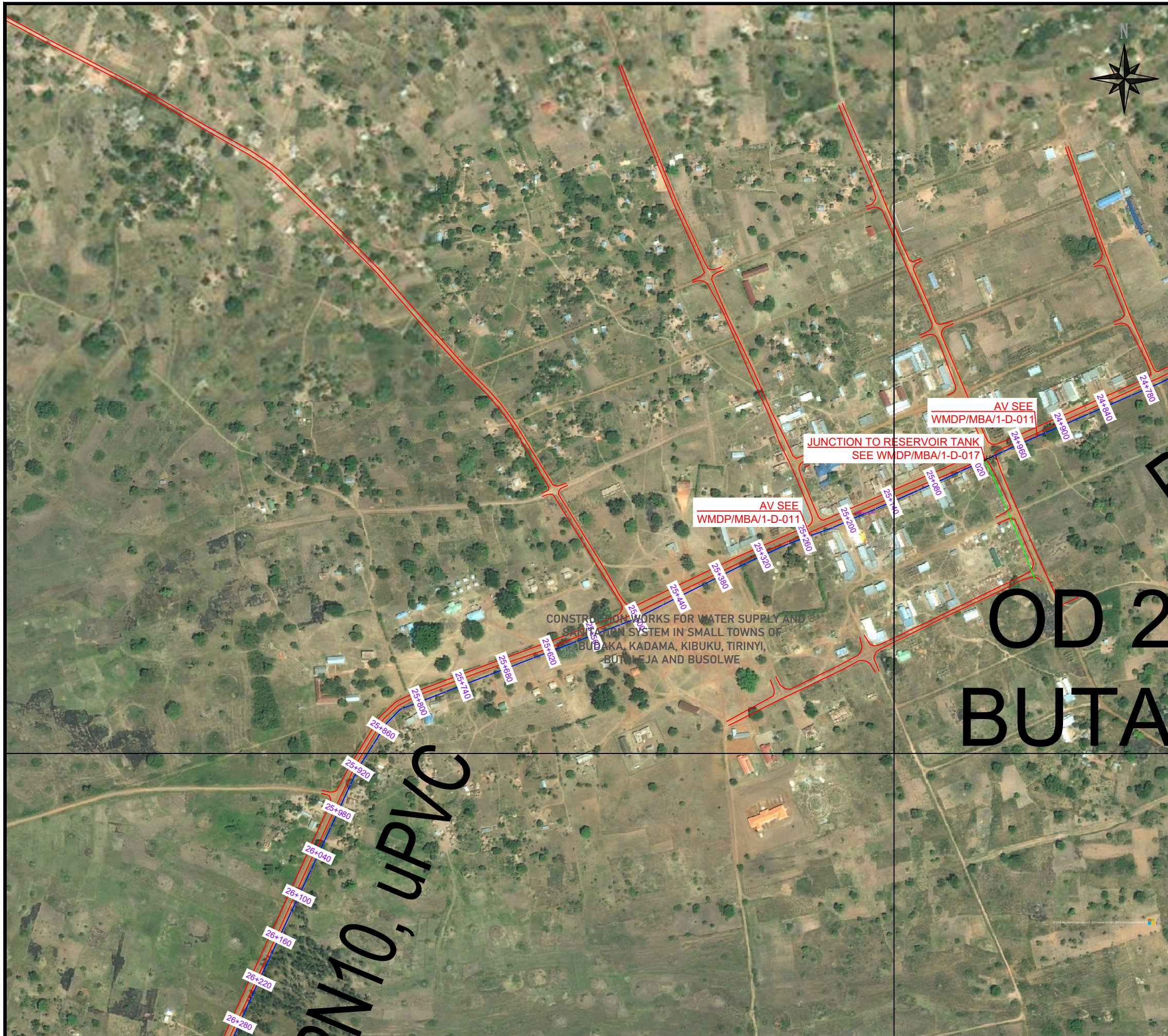
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
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CONSULTANT:

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| Scale: As Indicated | Date: December 2021 |
| Drawing No.: IWMDP/MBA/ 3-P-001 | |
| Sheet No.: 14/25 | Format: A3 |



LEGEND

| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | AV-2 Air Valves |
| | WO-2 Wash Outs |
| | FH-17 Fire Hydrants |
| | Dis-15 Disconnections |
| | PSP Public stand Post |
| | ROAD Land Marks |

KEY MAP

REPUBLIC OF UGANDA

MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUTALEJA AND BUSOLWE

CONSULTANT:

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| Sheet No.: 15/25 | Format: A3 |



| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Outs |
| | Fire Hydrants |
| | Disconnections |
| | Public stand Post |
| | Land Marks |

| KEY MAP | |
|---------|--|
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REPUBLIC OF UGANDA

MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUTALEJA AND BUSOLWE

CONSULTANT:

saman
 Saman Corp.

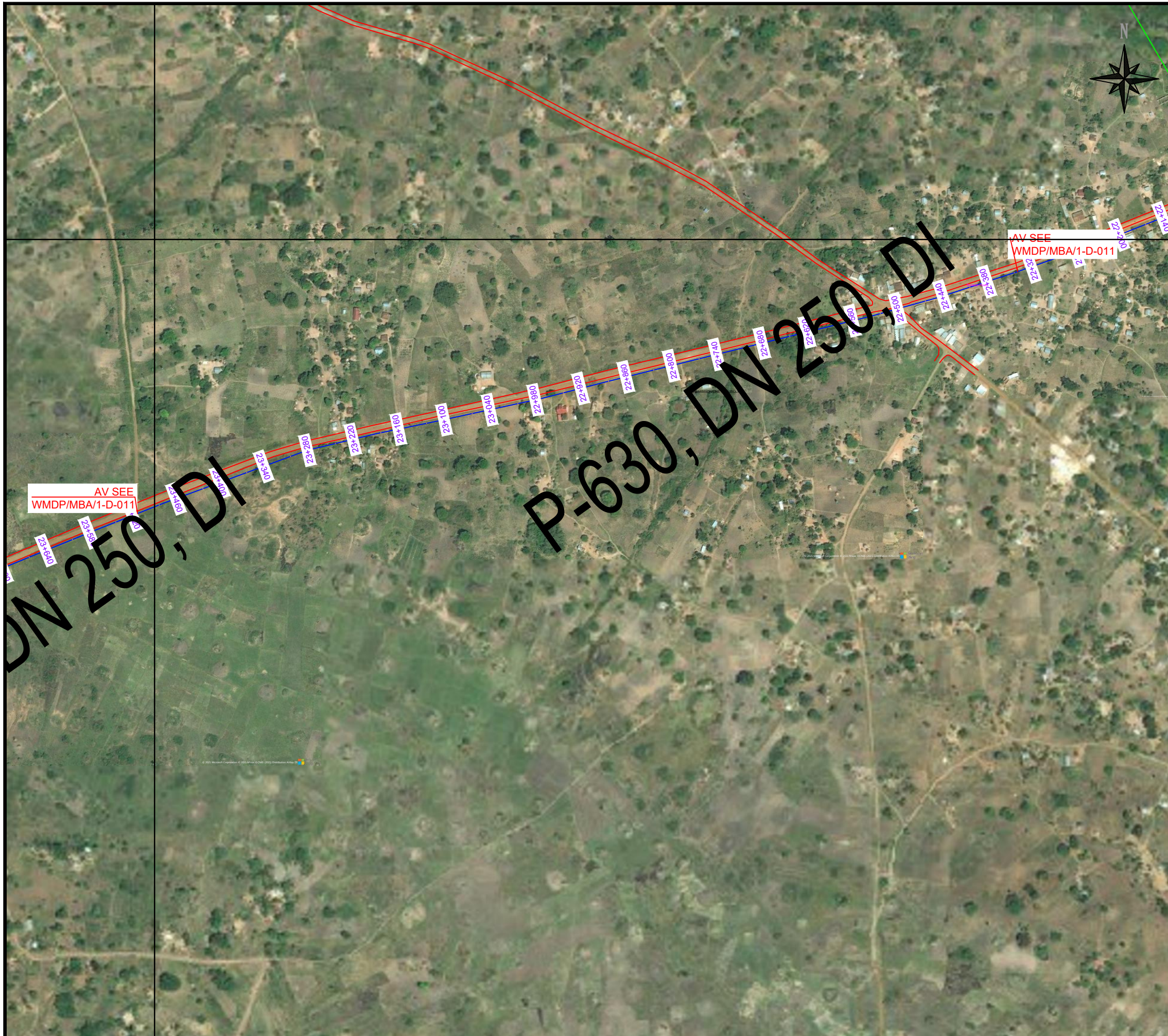
CHEIL
 ENGINEERS

AWE
 Engineers

Drawing Title:
TRANSMISSION LINE TO BUSOLWE

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| Drawn by : Andrew Turyakira | Approved by: |
| Checked by: Dr. Ronald Musenze | Dongwoon OH |
| Scale: As Indicated | Date: December 2021 |
| Drawing No.: IWMDP/MBA/ 3-P-001 | |
| Sheet No.: 16/25 | Format: A3 |

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BUTALEJA RESERVOIR



| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Outs |
| | Fire Hydrants |
| | Disconnections |
| | Public stand Post |
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REPUBLIC OF UGANDA

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CONSULTANT:

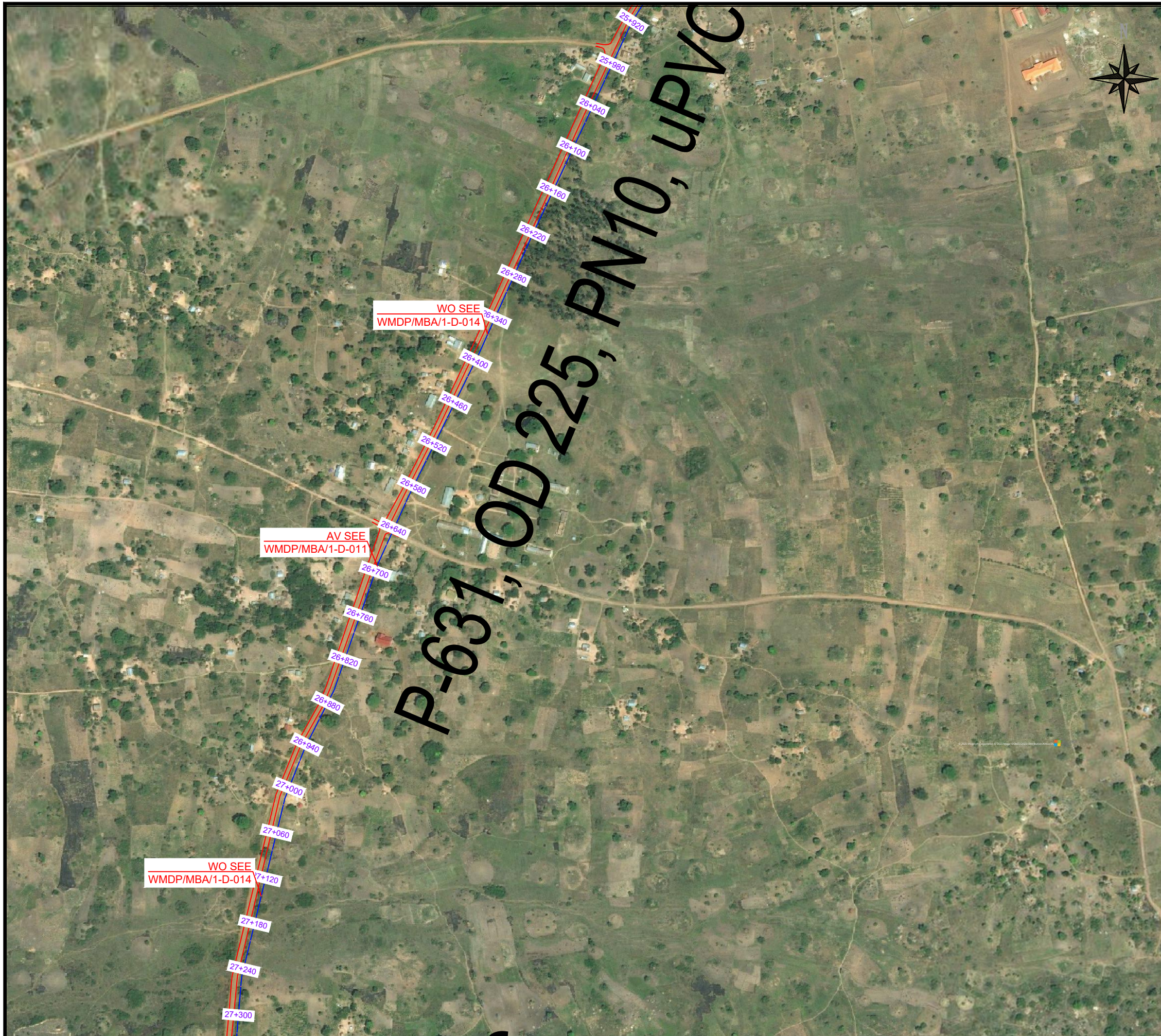
saman
 Saman Corp.

CHEIL
 ENGINEERS

AWE
 Engineers

Drawing Title:
TRANSMISSION LINE TO BUSOLWE

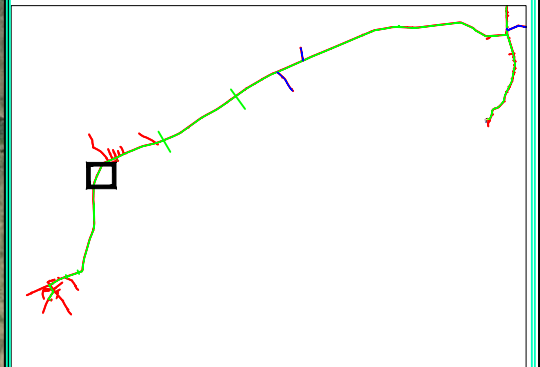
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| Sheet No.: 17/25 | Format: A3 |



LEGEND

| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Outs |
| | Fire Hydrants |
| | Disconnections |
| | Public stand Post |
| | Land Marks |

KEY MAP



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MINISTRY OF WATER AND ENVIRONMENT

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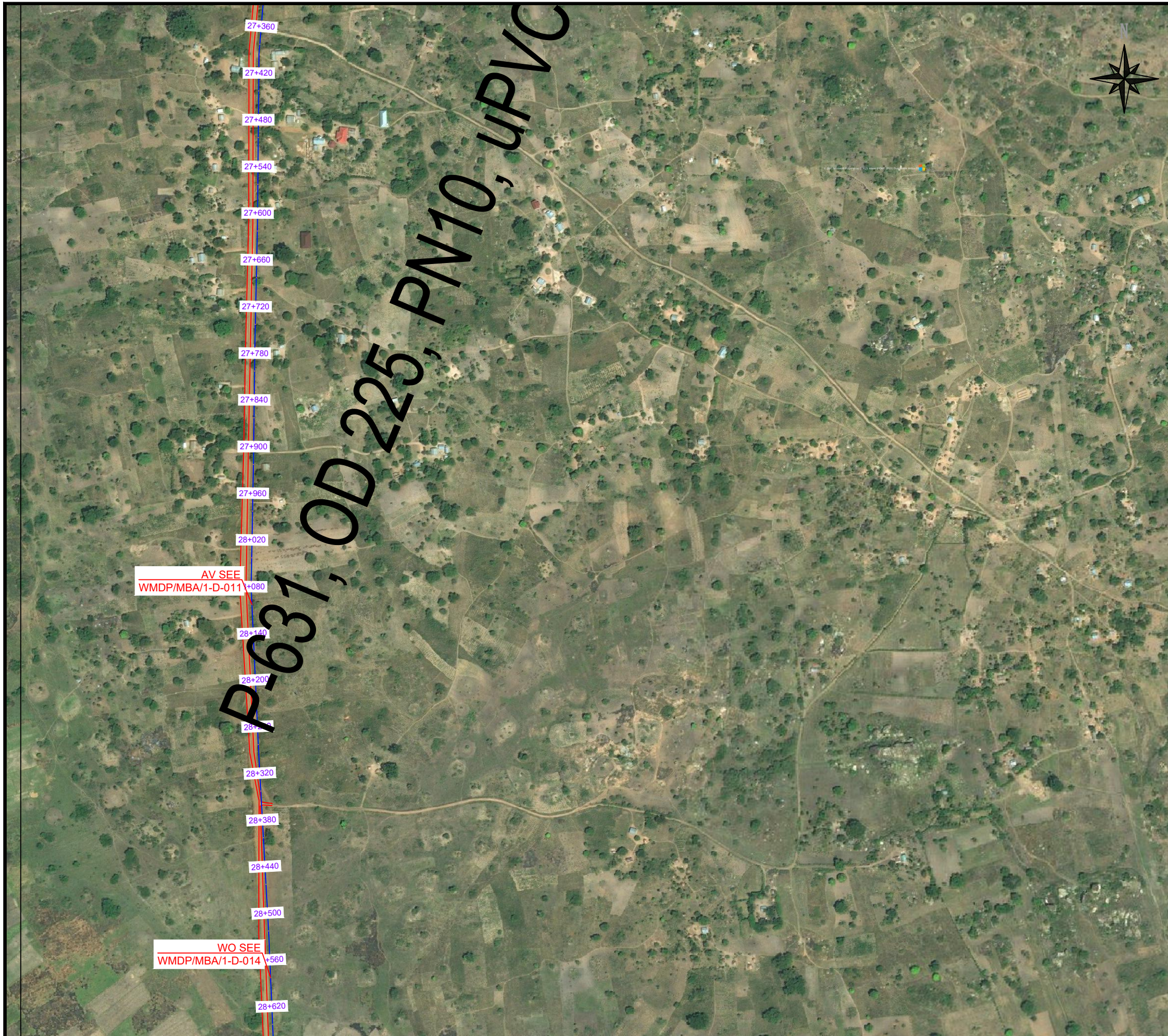
CONSULTANT:



Drawing Title:

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| Scale: As Indicated | Date: December 2021 |
| Drawing No.: IWMDP/MBA/ 3-P-001 | |
| Sheet No.: 18/25 | Format: A3 |



LEGEND

| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | AV-5 Air Valves |
| | WO-2 Wash Outs |
| | FH-17 Fire Hydrants |
| | Dis-15 Disconnections |
| | PSP Public stand Post |
| | ROAD Land Marks |

KEY MAP

REPUBLIC OF UGANDA

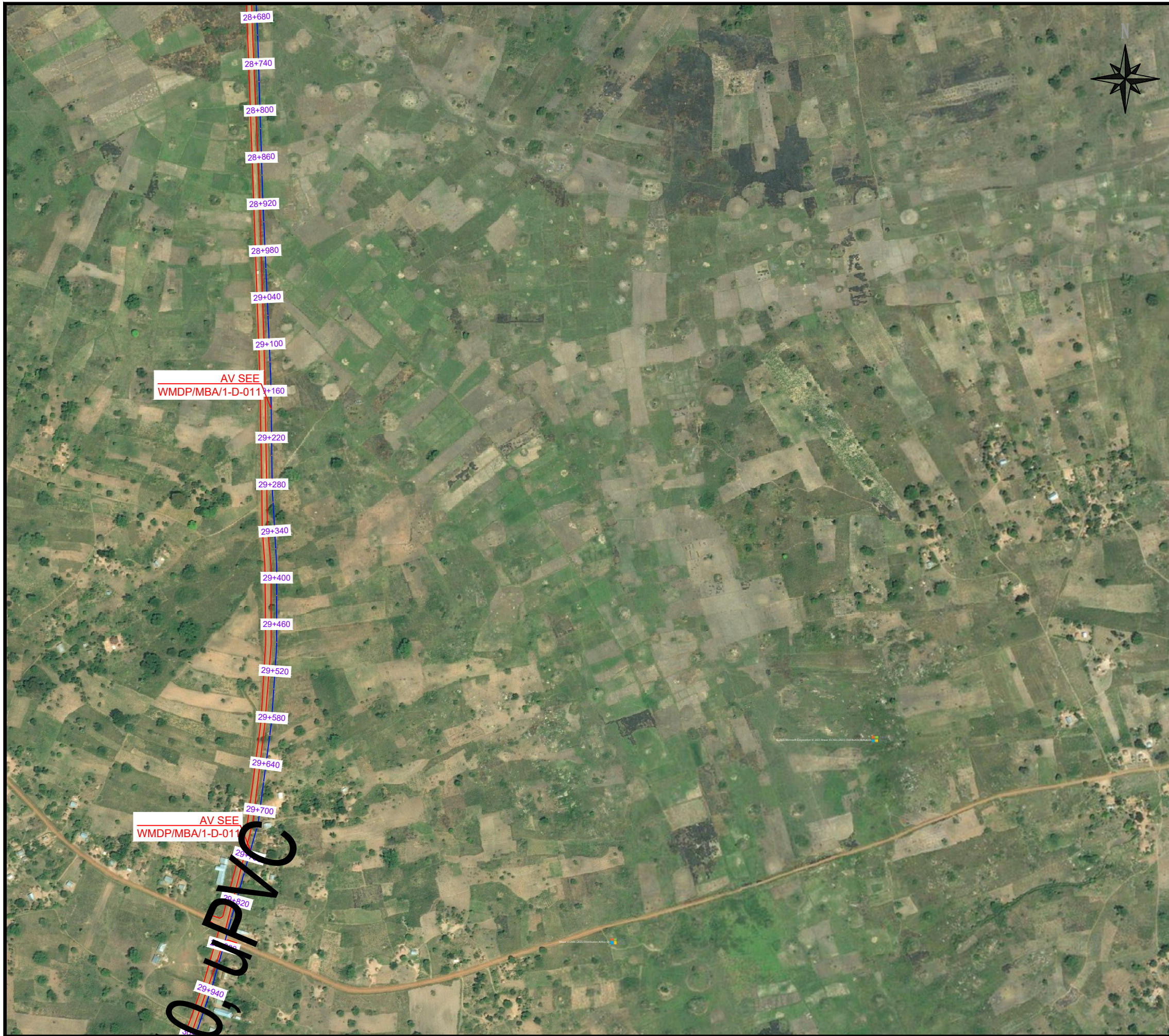
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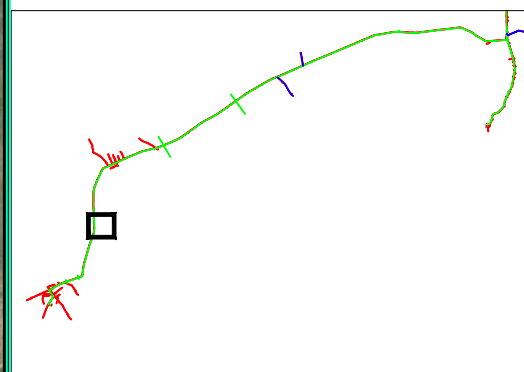
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| Sheet No.: 19/25 | Format: A3 |




LEGEND

| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A/C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Outs |
| | Fire Hydrants |
| | Disconnections |
| | Public stand Post |
| | Land Marks |

KEY MAP



REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND
SANITATION SYSTEM IN SMALL TOWNS OF
BUTALEJA AND BUSOLWE

CONSULTANT:





Drawing Title:
TRANSMISSION LINE TO BUSOLWE

| | |
|---------------------------------|---------------------|
| Drawn by : Andrew Turyakira | Approved by: |
| Checked by: Dr. Ronald Musenze | Dongwoon OH |
| Scale: As Indicated | Date: December 2021 |
| Drawing No.: IWMDP/MBA/ 3-P-001 | |
| Sheet No.: 20/25 | Format: A3 |



| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A/C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Outs |
| | Fire Hydrants |
| | Disconnections |
| | Public stand Post |
| | Land Marks |

| KEY MAP | |
|---------|--|
| | |

REPUBLIC OF UGANDA

MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUTALEJA AND BUSOLWE

CONSULTANT:

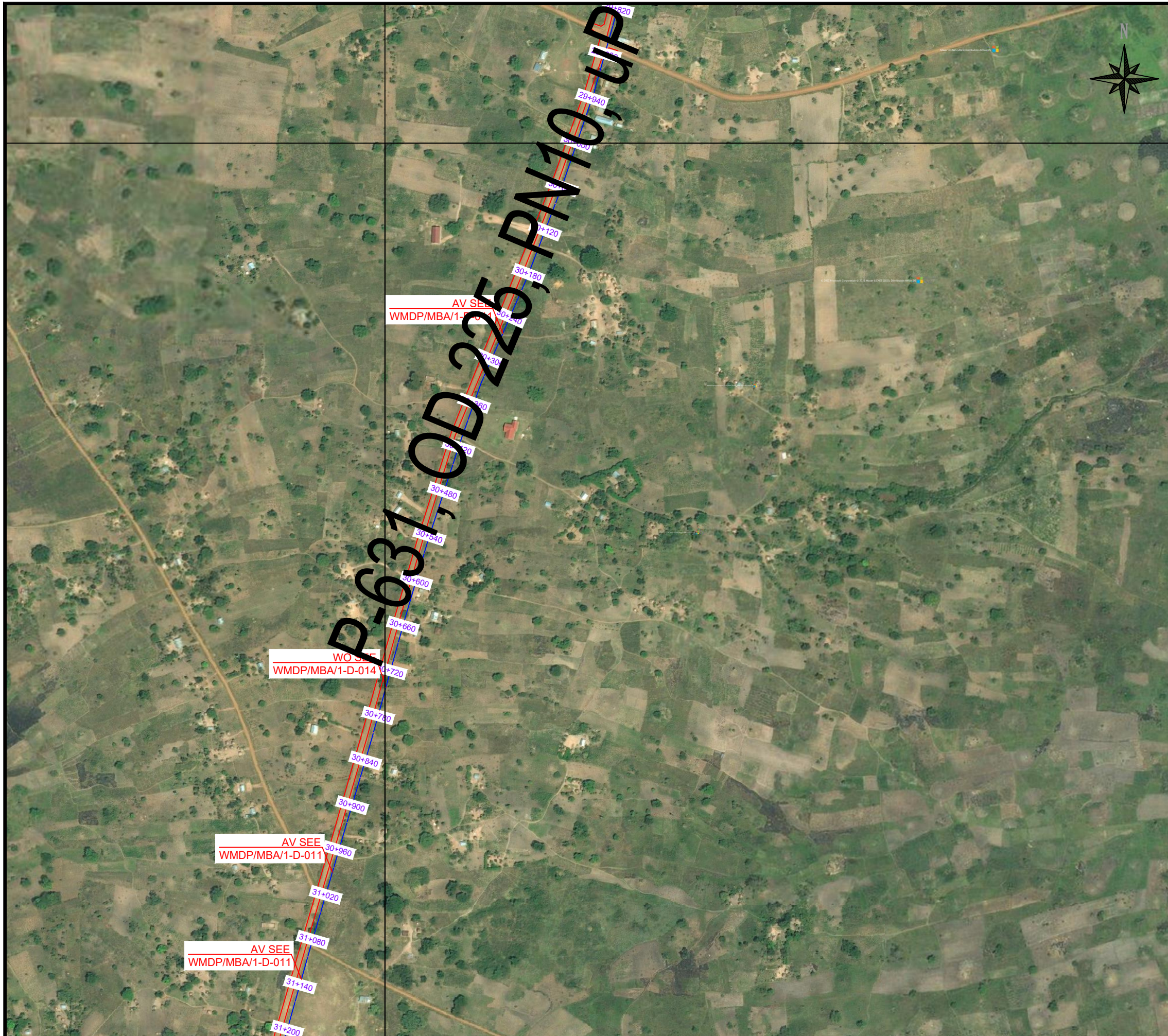
Saman Corp.

CHEIL

AWE Engineers

Drawing Title:
TRANSMISSION LINE TO BUSOLWE

| | |
|---------------------------------|---------------------|
| Drawn by : Andrew Turyakira | Approved by: |
| Checked by: Dr. Ronald Musenze | Dongwoon OH |
| Scale: As Indicated | Date: December 2021 |
| Drawing No.: IWMDP/MBA/ 3-P-001 | |
| Sheet No.: 21/25 | Format: A3 |



LEGEND

| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Outs |
| | Fire Hydrants |
| | Disconnections |
| | Public stand Post |
| | Land Marks |

KEY MAP

REPUBLIC OF UGANDA

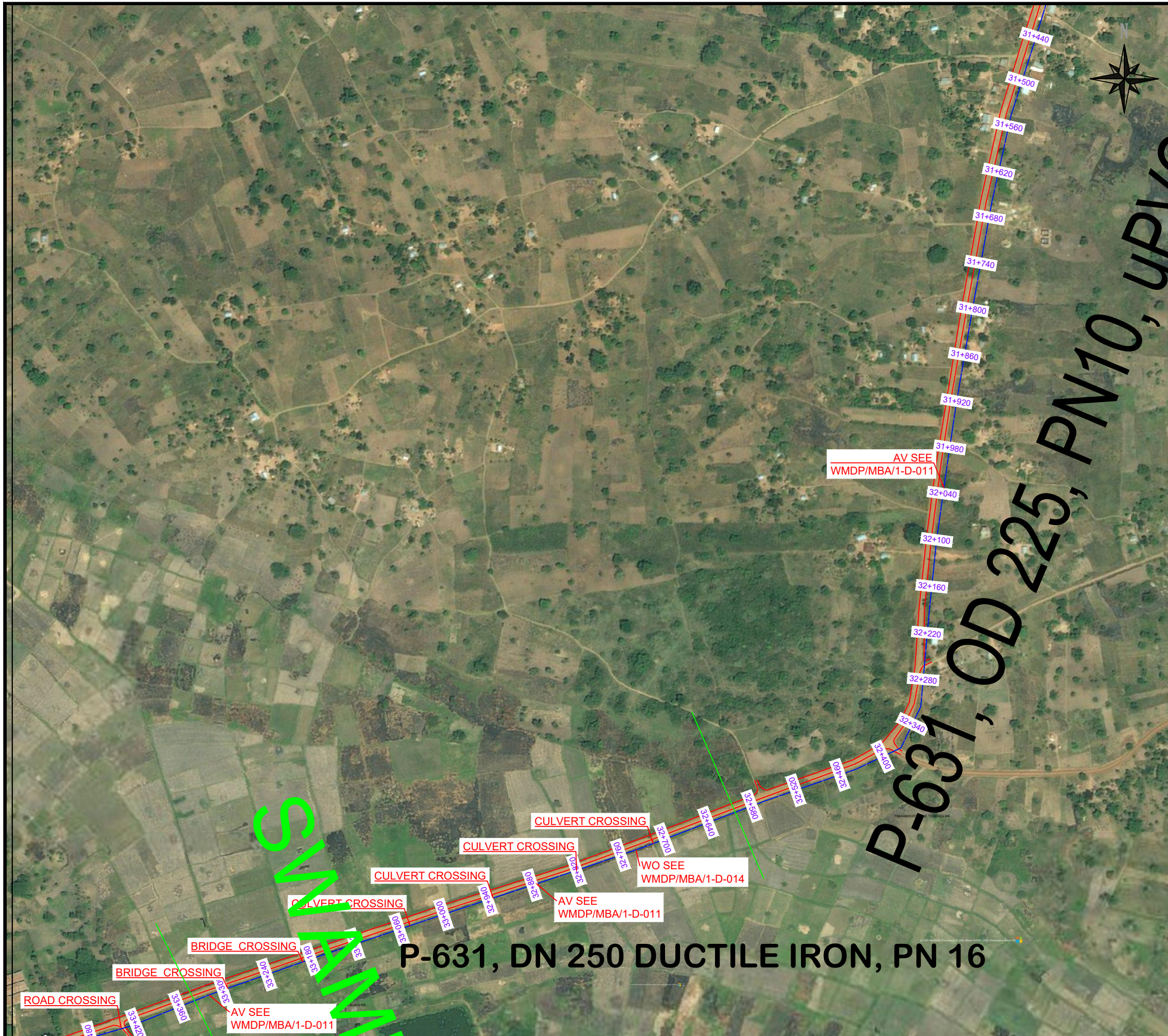
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUTALEJA AND BUSOLWE

CONSULTANT:

Drawing Title:
TRANSMISSION LINE TO BUSOLWE

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|---------------------------------|---------------------|
| Drawn by : Andrew Turyakira | Approved by: |
| Checked by: Dr. Ronald Musenze | Dongwoon OH |
| Scale: As Indicated | Date: December 2021 |
| Drawing No.: IWMDP/MBA/ 3-P-001 | |
| Sheet No.: 22/25 | Format: A3 |



LEGEND

| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Outs |
| | Fire Hydrants |
| | Disconnections |
| | Public stand Post |
| | Land Marks |

KEY MAP

REPUBLIC OF UGANDA

MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND
SANITATION SYSTEM IN SMALL TOWNS OF
BUTALEJA AND BUSOLWE

CONSULTANT:

Drawing Title:
TRANSMISSION LINE TO BUSOLWE

| | |
|---------------------------------|---------------------|
| Drawn by : Andrew Turyakira | Approved by: |
| Checked by: Dr. Ronald Musenze | Dongwoon OH |
| Scale: As Indicated | Date: December 2021 |
| Drawing No.: IWMDP/MBA/ 3-P-001 | |
| Sheet No.: 23/25 | Format: A3 |



LEGEND

| LEGEND | |
|--------|-----------------------|
| | Existing pipes |
| | New pipes |
| | Replacement pipes |
| | Replacement A C pipes |
| | Roads |
| | Fences |
| | Pressure Zones |
| | Rivers |
| | Sewer Lines |
| | Houses |
| | Junctions |
| | Air Valves |
| | Wash Outs |
| | Fire Hydrants |
| | Disconnections |
| | Public stand Post |
| | Land Marks |

KEY MAP

REPUBLIC OF UGANDA

MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND
SANITATION SYSTEM IN SMALL TOWNS OF
BUTALEJA AND BUSOLWE

CONSULTANT:

Drawing Title:
TRANSMISSION LINE TO BUSOLWE

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| Drawn by : Andrew Turyakira | Approved by: |
| Checked by: Dr. Ronald Musenze | Dongwoon OH |
| Scale: As Indicated | Date: December 2021 |
| Drawing No.: IWMDP/MBA/ 3-P-001 | |
| Sheet No.: 24/25 | Format: A3 |