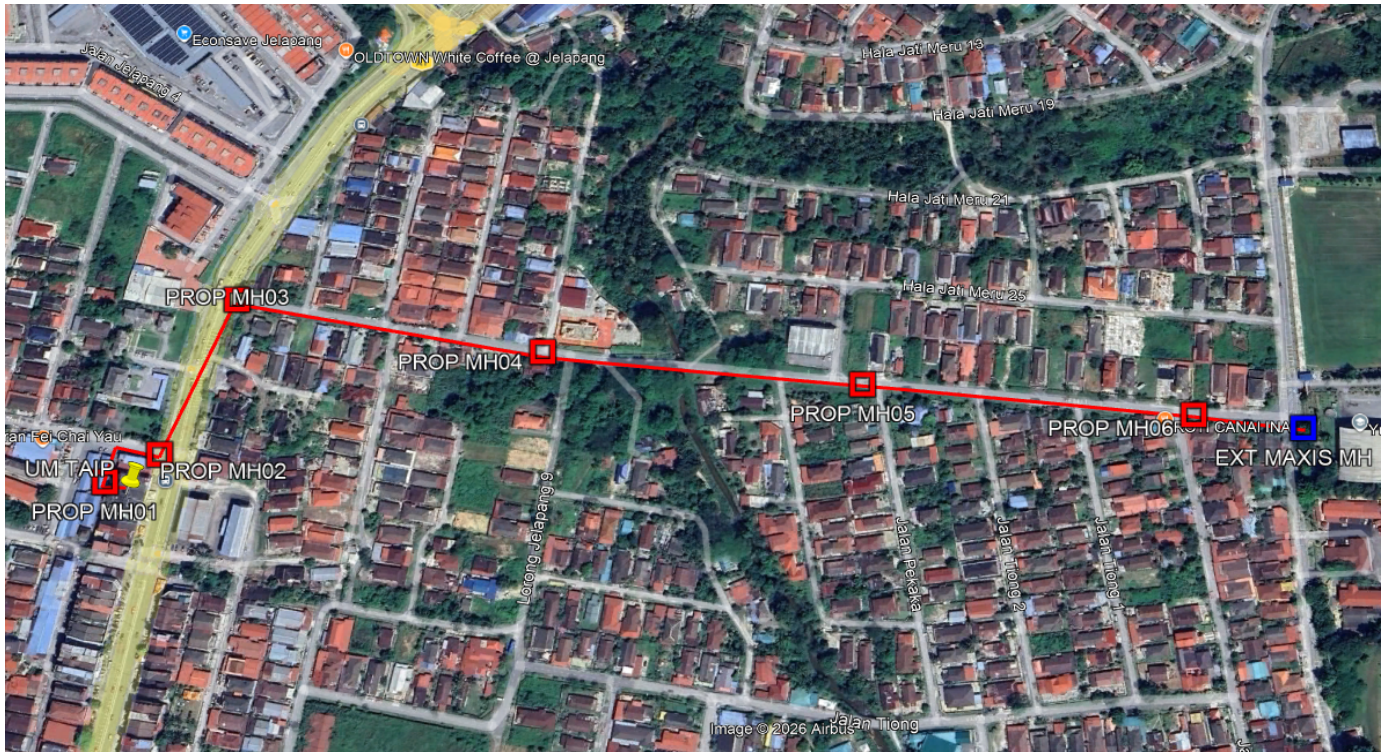


Maxis UMobile 5G Project – Technical Proposal

Company Name	:	MAXIS BROADBAND SDN BHD
Company Address	:	Level 2, Menara Maxis, Kuala Lumpur City Centre, 50088 Kuala Lumpur
Date	:	03/08/2025



Project & Site Name	:	UMOBILE TAIP
Site LRD	:	TAIP
Address	:	JALAN TAIPING, JELAPANG, 30020 IPOH, PERAK
District	:	IPOH
Postcode & State	:	30020 IPOH, PERAK
GPS Coordinate	:	4.638289,101.063392
FTTx LRD	:	N/A
Home pass / Premise pass	:	N/A

UG Build (m)	1010
Aerial Build (m)	0
Total Civil Build (m)	1010

UG Cable (m)	1080
Aerial CABLE (m)	0
Coil at MH (m)	40
Total Cable (m)	1120

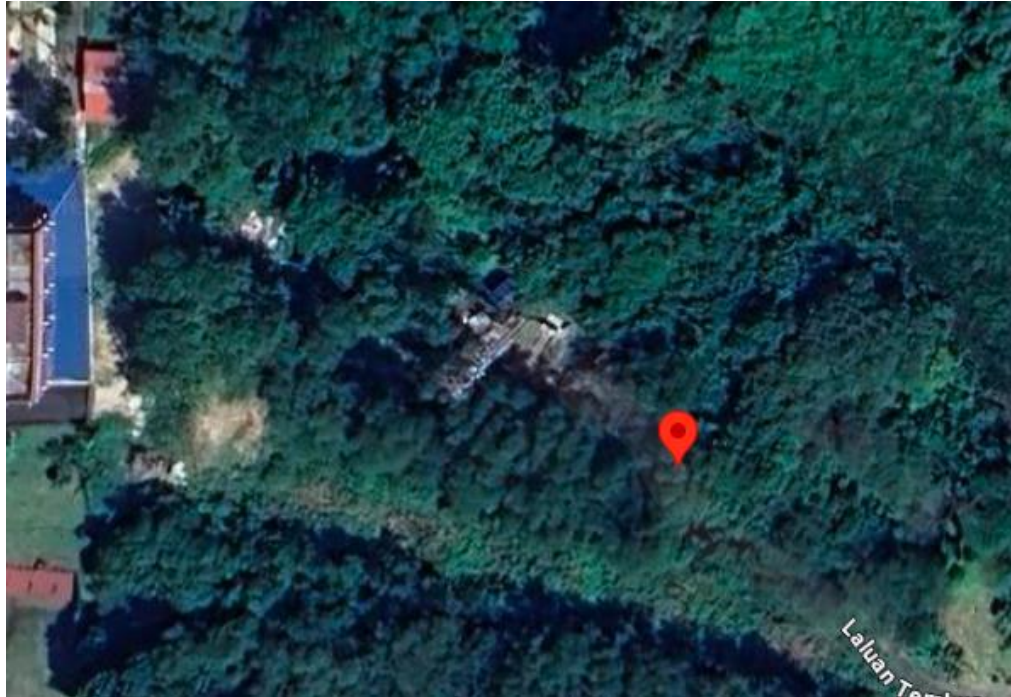


Table of Contents

- 1. POC3 Summary & Details**
 - 1.1. POC3 Summary
 - 1.2. POC3 Photos
- 2. OSP / ISP Summary & Details (OSP 2)**
 - 2.1. Propose Route Details & Site Map
 - 2.2. OSP / ISP BOQ
 - 2.3. Civil Works Details (Manhole & Pole)
 - 2.4. Photo Illustration
- 3. Link Attenuation Calculation Reference**
- 4. Appendices**
 - 4.1. OSP Civil Design
 - 4.2. OSP SLD Design
 - 4.3. Costing BOQ

1. POC3 Summary & Details

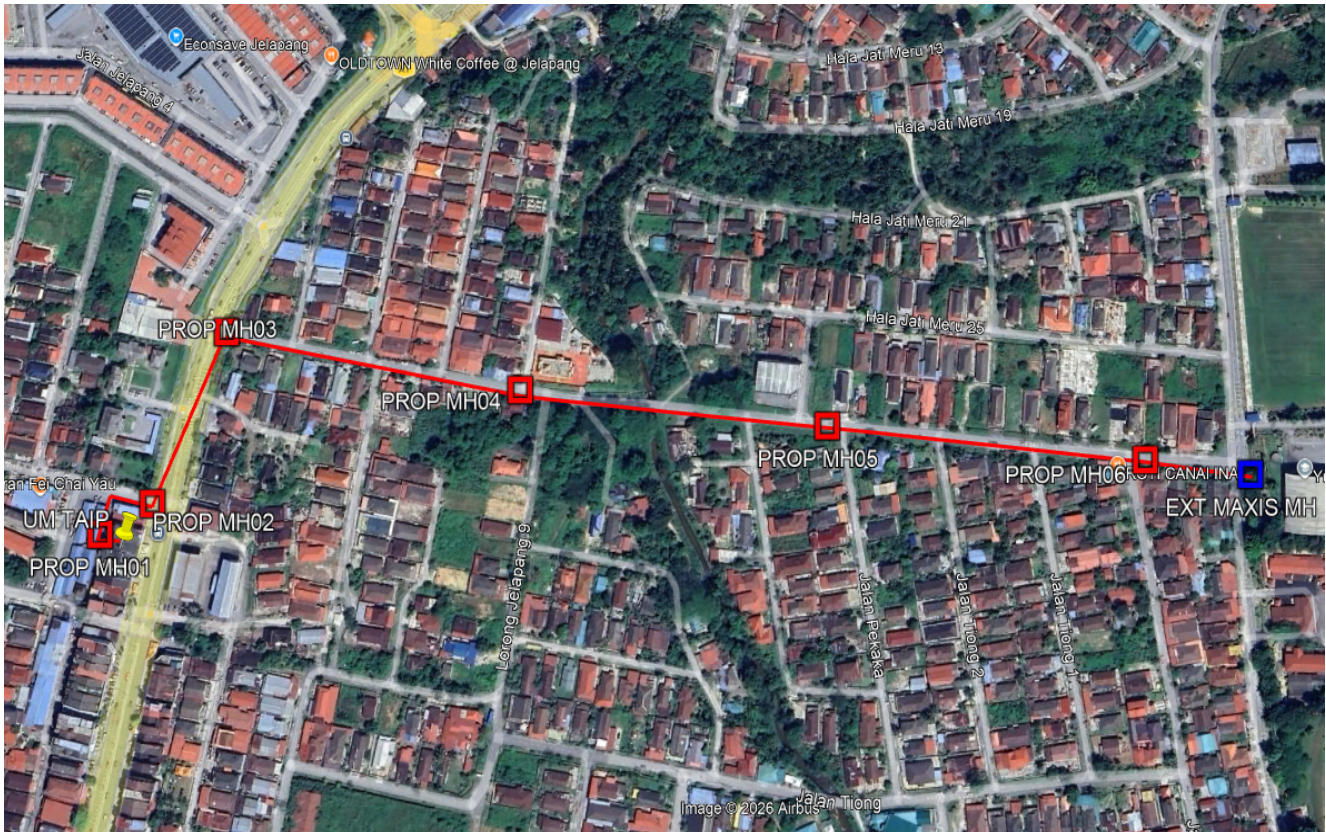
1.1. POC3 Summary



Site LRD	:	JLPG
Structure Type	:	CABINAT
GPS Coordinate	:	4°38'20.296" N,101°4'27.019" E
Site / Building Name	:	N/A
Address	:	Laluan Tembusu, Kampung Dato' Ahmad Said Tambahan 3, 30020 Ipoh, Perak
POC3 Model	:	N/A

2. OSP / ISP Summary & Details (OSP 2)

2.1. Propose Route Details & Site Map



LRD Point A	CABINET UM	LRD Point B	CABINET MAXIS
Address	JALAN TAIPING, JELAPANG, 30020 IPOH, PERAK	Address	Laluan Tembusu, Kampung Dato' Ahmad Said Tambahan 3, 30020 Ipoh, Perak
GPS Coordinates	4.638289,101.063392	GPS Coordinates	4°38'20.296" N,101°4'27.019" E
New Civil Build (M)	1010	Existing Civil Build (M)	N/A
New Build Cable (M)	1120	Existing Cable (M)	N/A

Local Council & Authority approval Requirement : MAJLIS BANDARAYA IPOH
JKR Daerah Kinta

2.2. OSP & ISP BOQ

Overall Proposed OSP Civil Infrastructure Design Distance		Unit	Quantity
1	Horizontal Directional Drilling with 1-way duct	M	1010
2	Horizontal Directional Drilling with 2-way duct	M	N/A
3	Open trench on grass verge (GV) with 1-way duct	M	N/A
4	Open trench on grass verge (GV) with 2-way duct	M	N/A
5	Open trench on carriage way (CW) with 1-way duct	M	N/A
6	Open trench on carriage way (CW) with 2-way duct	M	N/A
7	Micro trenching 1-way (3-way x 40 mm HDPE sub-duct)	M	N/A
8	Micro trenching 1-way (2-way x 25 mm GI Pipe for main road crossing)	M	N/A

Overall Propose Manhole / Handhole		Unit	Quantity
1	Manhole JB30	Ea	6
2	Manhole JB30 Modified	Ea	N/A
3	Manhole JRC7	Ea	N/A
4	PIT/Cheezy PIT	Ea	N/A

Overall Propose Pole / Overhead		Unit	Quantity
1	7.5 m Pole – Concrete/Iron	Ea	N/A
2	9 m Pole – Concrete/Iron	Ea	N/A
3	G.I Riser	Ea	N/A
4	Cable Trunking	M	30

Overall Cable Infrastructure Design Distance		Unit	Quantity
1	1 Core Optical Fiber Cable	M	N/A
2	48 Core Optical Fiber Cable UG/IB/ID	M	N/A
3	96 Core Optical Fiber Cable UG/IB	M	N/A
4	144 Core Optical Fiber Cable UG/IB/ID	M	1120

Overall Optic Splice Design		Unit	Quantity
1	Total Joint Closure	Ea	1



2.3. Civil Work's Detail (Manhole & Pole)

Overall Existing Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	EX MAXIS M/H	4.638750	101.071536	
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A

Overall Propose Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	New Manhole 1	4.638811	101.070867	50
2	New Manhole 2	4.639008	101.068600	130
3	New Manhole 3	4.639253	101.066356	250
4	New Manhole 4	4.639642	101.064161	250
5	New Manhole 5	4.638569	101.063464	250
6	New Manhole 6	4.638300	101.063406	80
7				

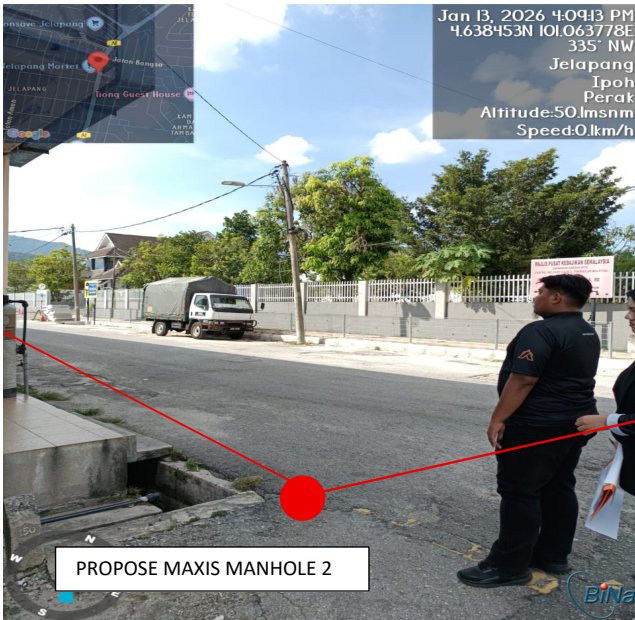
2.4 OSP/ISP Photo Illustration



PICTURE 1 - ROOFTOP UMOBILE



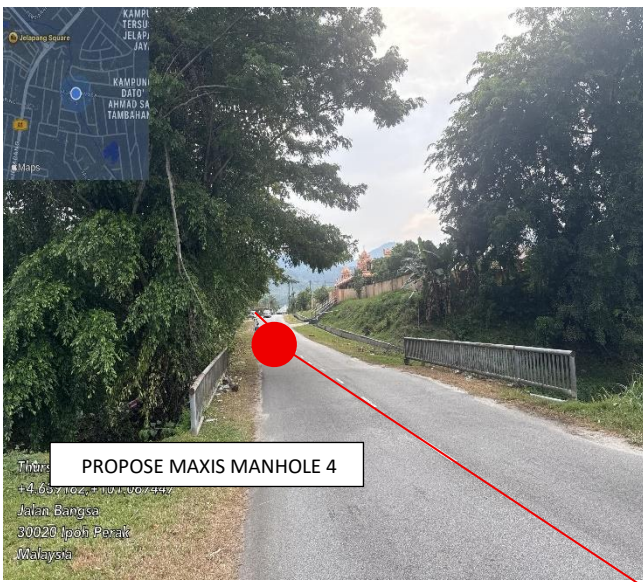
Picture 2 – PROPOSE MAXIS M/H 1



Picture 3 – PROPOSED MAXIS M/H 2



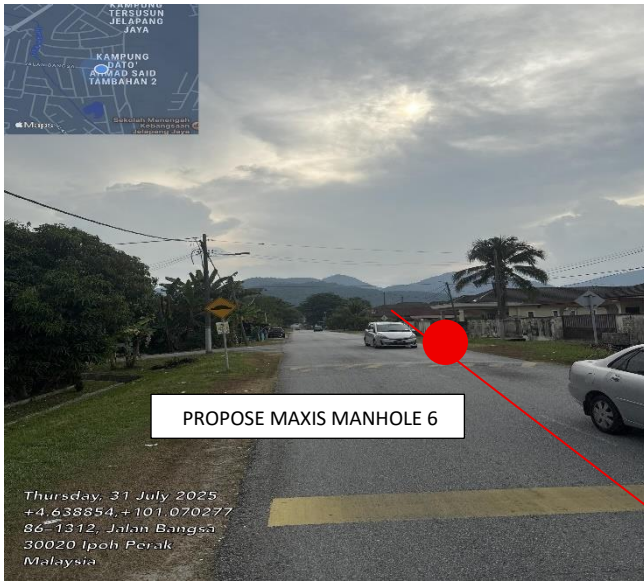
PICTURE 4 – PROPOSED MAXIS M/H 3



Picture 5 – PROPOSE MAXIS M/H 4



Picture 6 – PROPOSE MAXIS M/H 5



Picture 5 – PROPOSE M/H 6



Picture 6 – EXISTING MAXIS M/H



1. Link Attenuation Calculation Reference

S = Total splice count in a single link

L = Total length of cable in a single link

C = Total connector count in a single link.

A) FIBER LOSS FOR 1310 nm WAVELENGTH

$$\text{TOTAL LOSS} = 0.15 (S) + 0.35 (L) + (C)$$

B) FIBER LOSS FOR 1550 nm WAVELENGTH

$$\text{TOTAL LOSS} = 0.10 (S) + 0.25 (L) + 0.5 (C)$$

MAXIMUM END TO END VALUE FOR 1310 nm = ******** **dBm**

MAXIMUM END TO END VALUE FOR 1550 nm = ******** **dBm**

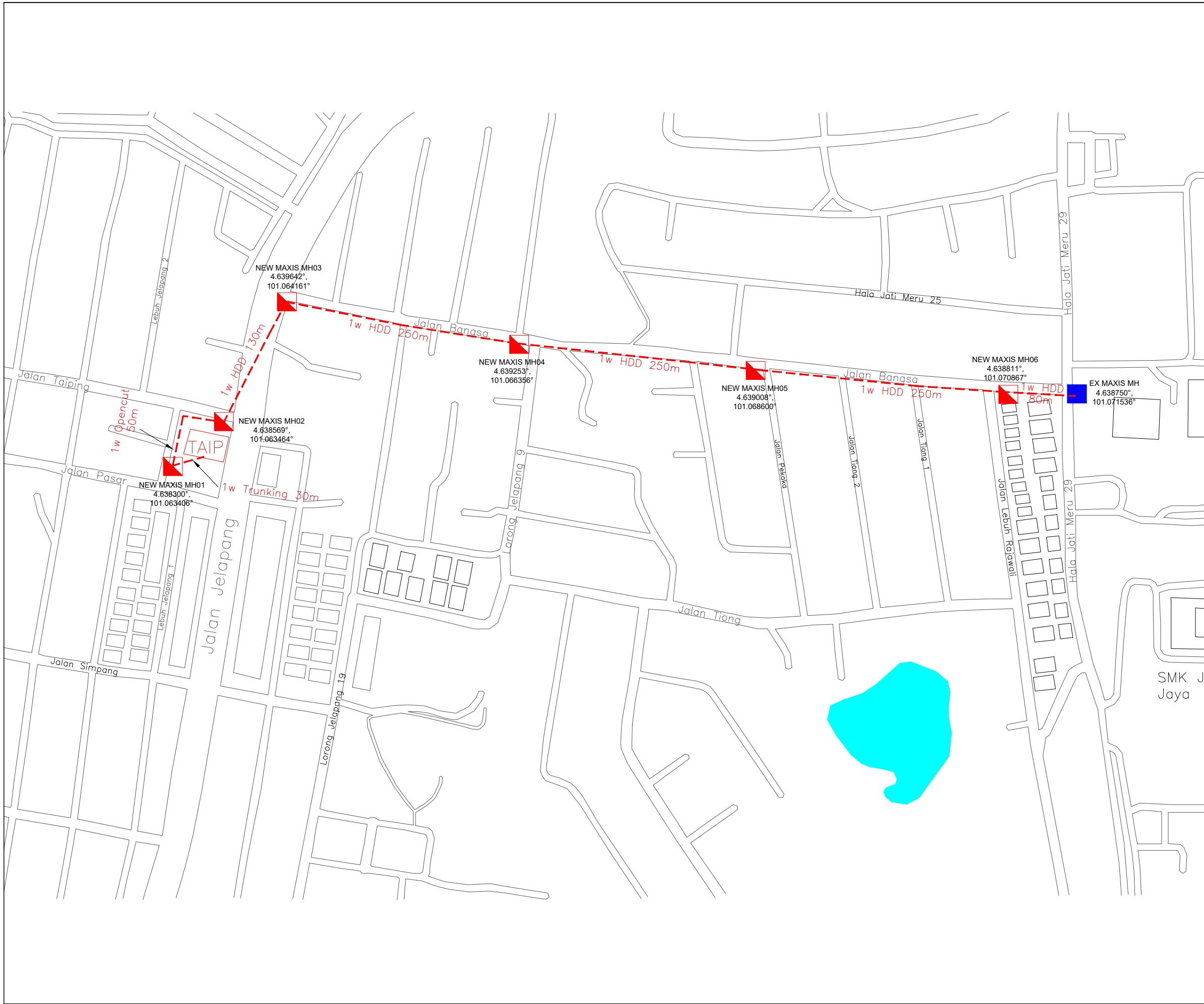


2. Appendices

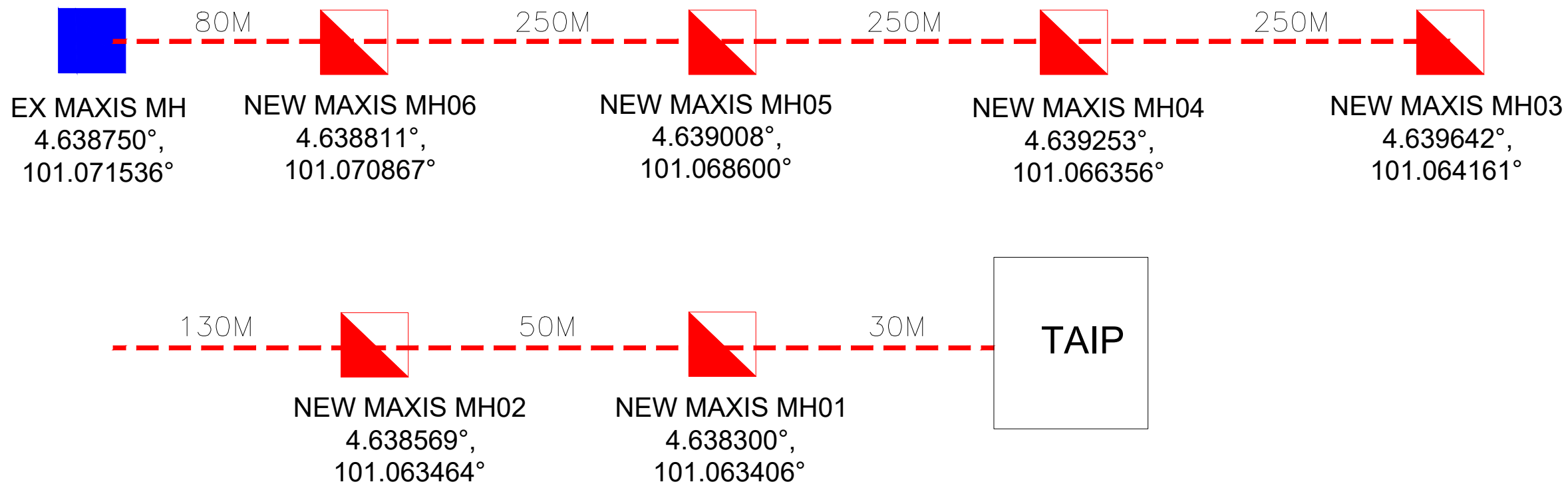
2.1. OSP Civil Design

2.2. OSP SLD Design

2.3. Costing BOQ



SITE MAPS DESIGN	
SITE NAME:	TAIP
PROJECT TITLE:	UM5G-TAIP
DWG ID:	UM5G/TAIP/01
DATE:	5 AUG 2025
SHEET:	01/01
SUMMARY NOTES	
TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	0
TOTAL PROPOSED MH:	7
TOTAL PROPOSED POLE:	0
TOTAL PROPOSED UG CABLE (m):	1010
TOTAL PROPOSED OH CABLE (m):	0
LEGENDS	
EXISTING FDC	
PROPOSED FDP	
EXISTING FDP	
PROPOSED MANHOLE	
EXISTING MANHOLE	
PROPOSED PIT/HANDHOLE	
EXISTING PIT/HANDHOLE	
PROPOSED G.i / DUCT RISER	
EXISTING G.i / DUCT RISER	
PROPOSED POLE	
EXISTING POLE	
PROPOSED CLOSURE / JOINT	
EXISTING PEDESTAL	
EXISTING UG DUCTWAY	
PROPOSED UG TRENCHING	
EXISTING AERIALCABLE	
PROPOSED AERIAL CABLE	
JKR BOUNDARY	
LOCAL COUNCIL BOUNDARY	
DESIGN BY: BINASAT SDN BHD	
 MAXIS BROADBAND SDN BHD	
CHECKED BY :	
CHECKED DATE :	
APPROVED/REJECTED BY :	
APPROVED/REJECTED BY :	



EX MAXIS MH
4.638750°,
101.071536°

NEW MAXIS MH06
4.638811°,
101.070867°

NEW MAXIS MH05
4.639008°,
101.068600°

NEW MAXIS MH04
4.639253°,
101.066356°

NEW MAXIS MH03
4.639642°,
101.064161°

NEW MAXIS MH02
4.638569°,
101.063464°

NEW MAXIS MH01
4.638300°,
101.063406°

TAIP

SITE MAPS DESIGN

SITE NAME:	TAIP
PROJECT TITLE:	UM5G-TAIP
DWG ID:	UM5G/TAIP/SLD/01
DATE:	5 AUG 2025
SHEET:	01/01

SUMMARY NOTES

TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	0
TOTAL PROPOSED MH:	7
TOTAL PROPOSED POLE:	0
TOTAL PROPOSED UG CABLE (m):	1010
TOTAL PROPOSED OH CABLE (m):	0

LEGENDS

EXISTING FDC	
PROPOSED FDP	
EXISTING FDP	
PROPOSED MANHOLE	
EXISTING MANHOLE	
PROPOSED PIT/HANDHOLE	
EXISTING PIT/HANDHOLE	
PROPOSED G.i / DUCT RISER	
EXISTING G.i / DUCT RISER	
PROPOSED POLE	
EXISTING POLE	
PROPOSED CLOSURE / JOINT	
EXISTING PEDESTAL	
EXISTING UG DUCTWAY	
PROPOSED UG TRENCHING	
EXISTING AERIALCABLE	
PROPOSED AERIAL CABLE	
JKR BOUNDARY	
LOCAL COUNCIL BOUNDARY	

DESIGN BY: BINASAT SDN BHD



MAXIS BROADBAND SDN BHD

CHECKED BY :	
CHECKED DATE :	
APPROVED/REJECTED BY :	
APPROVED/REJECTED BY :	