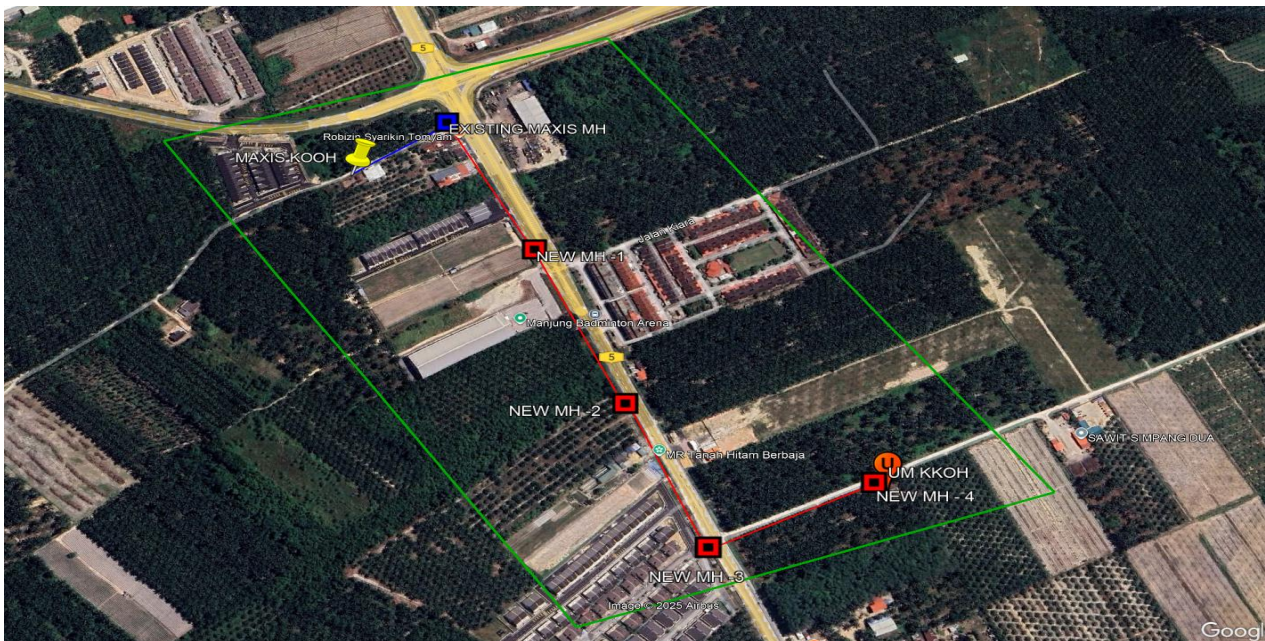


# Maxis UMobile 5G Project – Technical Proposal

Company Name	:	MAXIS BROADBAND SDN BHD
Company Address	:	LEVEL 9, MENARA MAXIS, KUALA LUMPUR CITY CENTRE, 50088 KUALA LUMPUR
Date	:	08 AUG 2025



Project & Site Name	:	U MOBILE KKOH
Site LRD	:	KKOH
Address	:	JALAN LEKIR JATI
District	:	SITIAWAN
Postcode & State	:	32000 PERAK
GPS Coordinate	:	4.16973,100.71309
FTTx LRD	:	N/A
Home pass / Premise pass	:	N/A

UG Build (m)	920
Aerial Build (m)	N/A
<b>Total Civil Build (m)</b>	<b>920</b>

UG Cable (m)	920
Aerial Cable (m)	N/A
Coil at MH (m)	25
<b>Total Cable (m)</b>	<b>945</b>



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# 1. POC3 Summary & Details

## 1.1. POC3 Summary

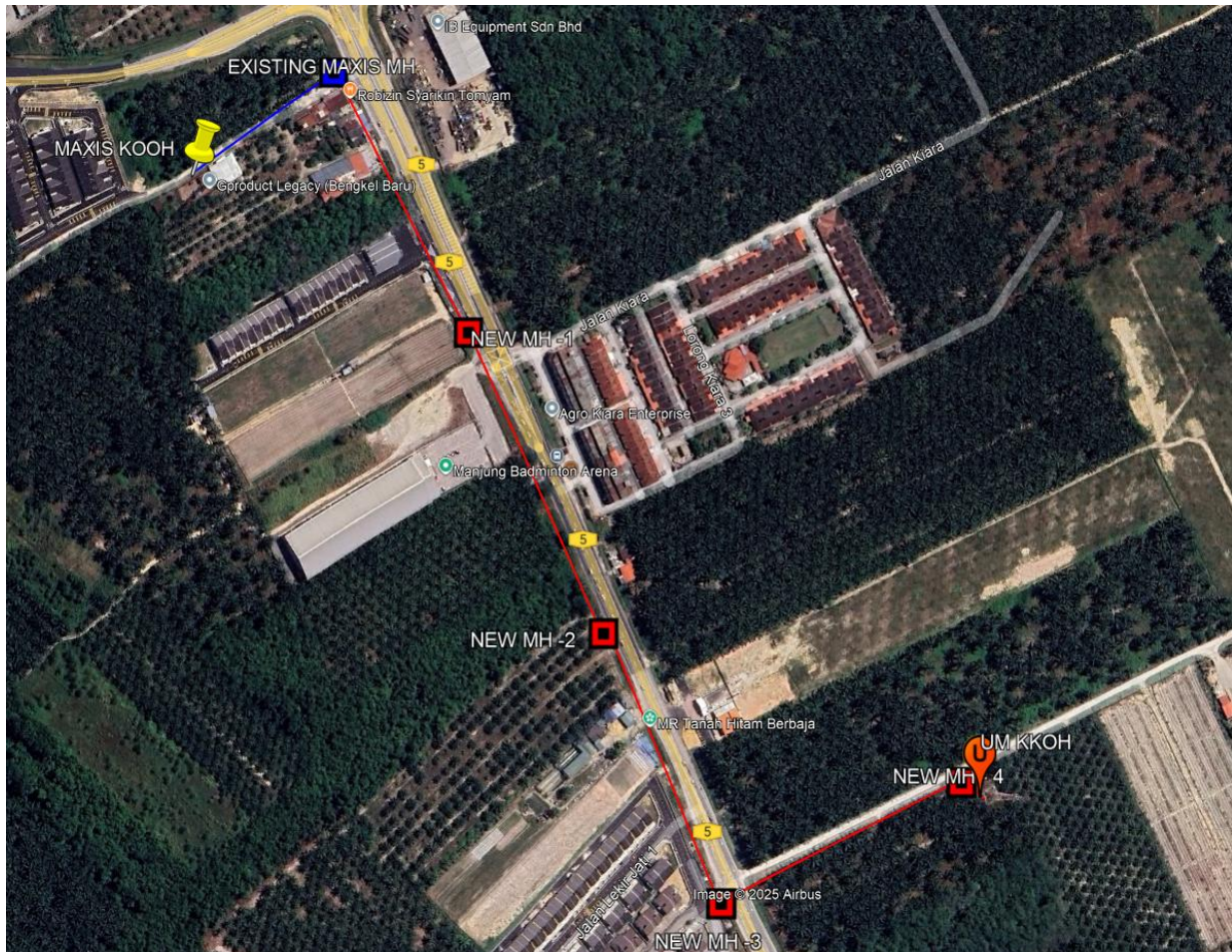


Poc3 KOHH  
07.08.2025 15:42  
4.17391, 100.70755  
5PF4+PJ Sitiawan

Site LRD	:	KOHH
Structure Type	:	Cabin/T5
GPS Coordinate	:	4.17391,100.70755
Site / Building Name	:	N/A
Address	:	Sitiawan, Perak
POC3 Model	:	<b>005A800-X2</b>

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

### 2.1. Propose Route Details & Site Map



<b>LRD Point A</b>	KKOH	<b>LRD Point B</b>	KOHH
<b>Address</b>	BATU 5 JALAN KG KOH KE, Jalan Lekir, Kampung Koh, 32000 Sitiawan, Perak	<b>Address</b>	Simpang 4 WCE Highway, Batu 6 lekir, 32000 Sitiawan, Perak
<b>GPS Coordinates</b>	4.16973,100.71309	<b>GPS Coordinates</b>	4.17389555, 100.707636508
<b>New Civil Build (M)</b>	920	<b>Existing Civil Build (M)</b>	200
<b>New Build Cable (M)</b>	945	<b>Existing Cable (M)</b>	250

**Local Council & Authority approval Requirement** :

1. JKR HILIR PERAK 2. MAJLIS DAERAH MANJUNG
--

## 2.2. OSP & ISP BOQ

Overall Proposed OSP Civil Infrastructure Design Distance		Unit	Quantity
1	Horizontal Directional Drilling with 1-way duct	M	910
2	Horizontal Directional Drilling with 2-way duct	M	***
3	Open trench on grass verge (GV) with 1-way duct	M	10
4	Open trench on grass verge (GV) with 2-way duct	M	***
5	Open trench on carriage way (CW) with 1-way duct	M	***
6	Open trench on carriage way (CW) with 2-way duct	M	***
7	Micro trenching 1-way (3-way x 40 mm HDPE sub-duct)	M	***
8	Micro trenching 1-way (2-way x 25 mm GI Pipe for main road crossing)	M	***

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

Overall Propose Pole / Overhead		Unit	Quantity
1	7.5 m Pole – Concrete/Iron	Ea	***
2	9 m Pole – Concrete/Iron	Ea	***
3	G.I Riser	Ea	***

Overall Cable Infrastructure Design Distance		Unit	Quantity
1	1 Core Optical Fiber Cable	M	***
2	48 Core Optical Fiber Cable UG/IB/ID	M	***
3	96 Core Optical Fiber Cable UG/IB	M	***
4	144 Core Optical Fiber Cable UG/IB/ID	M	945

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	<b>A-LJAN5-0020-000M</b>	<b>4.17463</b>	<b>100.70857</b>	
2	***	***	***	***
3	***	***	***	***

Overall Propose Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	MH01 JB30	4.172808	100.709575	
2	MH02 JB30	4.170769	100.710544	<b>250</b>
3	MH03 JB30	4.168994	100.711372	<b>220</b>
4	MH04 JB30	4.169781	100.713036	210

2.4. OSP/ISP Photo Illustration.



PICTURE 1 : EXST MAXIS A-LJAN5-0020-000M



Picture 2 – PROPOSED HDD 1 WAY



Picture 3 – PROPOSED HDD 1 WAY



Picture 4 – PROPOSED HDD 1 WAY



Picture 5 – PROPOSED OPEN CUT 1W



Picture 6 – PROPOSED O/C



Picture 7 – U Mobile KKOH



### 3. 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

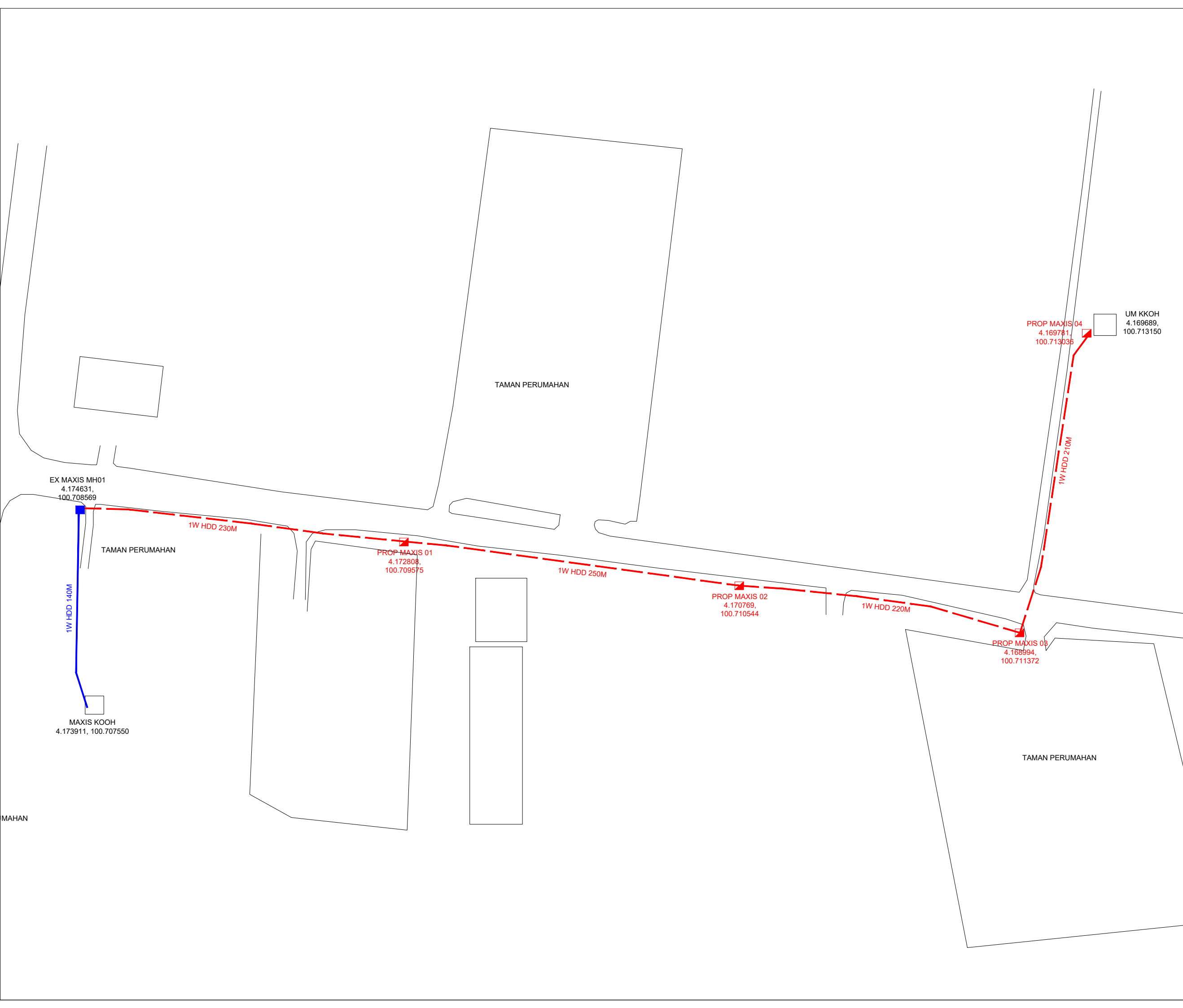


#### **4. Appendices**

4.1. OSP Civil Design

4.2. OSP SLD Design

4.3. Costing BOQ



SITE MAPS DESIGN	
SITE NAME:	KOOH - KCOH
PROJECT TITLE:	UM5G - KOOH KCOH
DWG ID:	UM5G/KOOH-KCOH/01
DATE:	08/08/2025
SHEET:	1/1
SUMMARY NOTES	
TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	4
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	945
TOTAL PROPOSED OH CABLE (m):	N/A
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 :	

















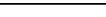


## SITE MAPS DESIGN

SITE NAME:	KOOH - K KOH
PROJECT TITLE:	UM5G - KOOH K KOH
DWG ID:	UM5G/KOOH-K KOH/01
DATE:	08/08/2025
SHEET:	1/1

### SUMMARY NOTES

TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	4
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	945
TOTAL PROPOSED OH CABLE (m):	N/A

### 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 :	

