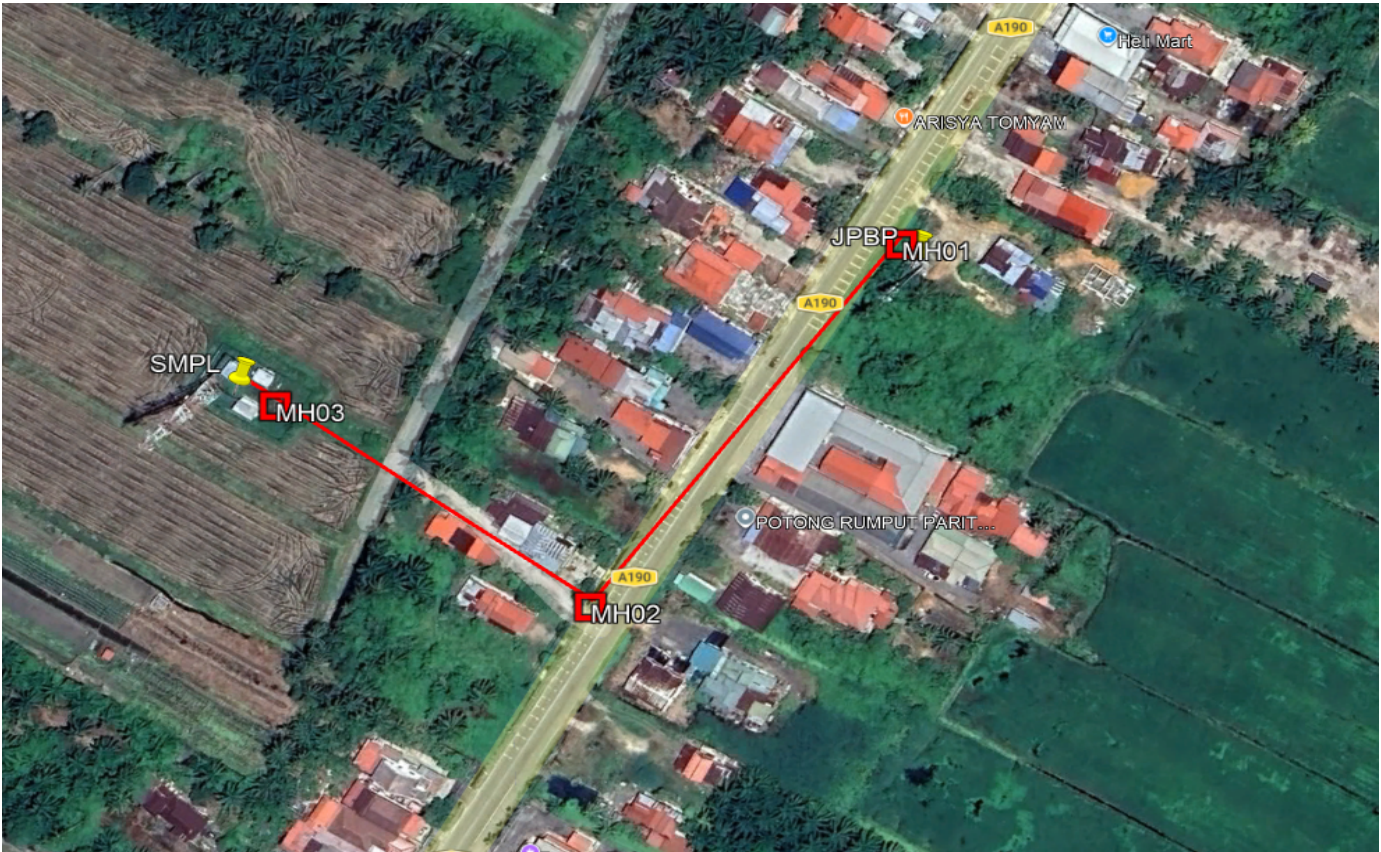


# Maxis UMobile 5G Project – Technical Proposal

Company Name	:	MAXIS BROADBAND SDN BHD
Company Address	:	LEVEL 9 , MENARA MAXIS , KUALA LUMPUR CITY CENTRE , 50088 KUALA LUMPUR
Date	:	22/08/2025



Project & Site Name	:	UMOBILE MAXIS JBPB
Site LRD	:	JBPB
Address	:	JALAN BAHARU, KUALAU KURAU, PERAK
District	:	KUALA KURAU
Postcode & State	:	34350 PERAK
GPS Coordinate	:	5.072537, 100.476611
FTTx LRD	:	N/A
Home pass / Premise pass	:	N/A

UG Build (m)	350
Aerial Build (m)	N/A
<b>Total Civil Build (m)</b>	<b>350</b>

UG Cable (m)	350
Aerial Cable (m)	N/A
Coil at MH (m)	10
<b>Total Cable (m)</b>	<b>350</b>



## 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

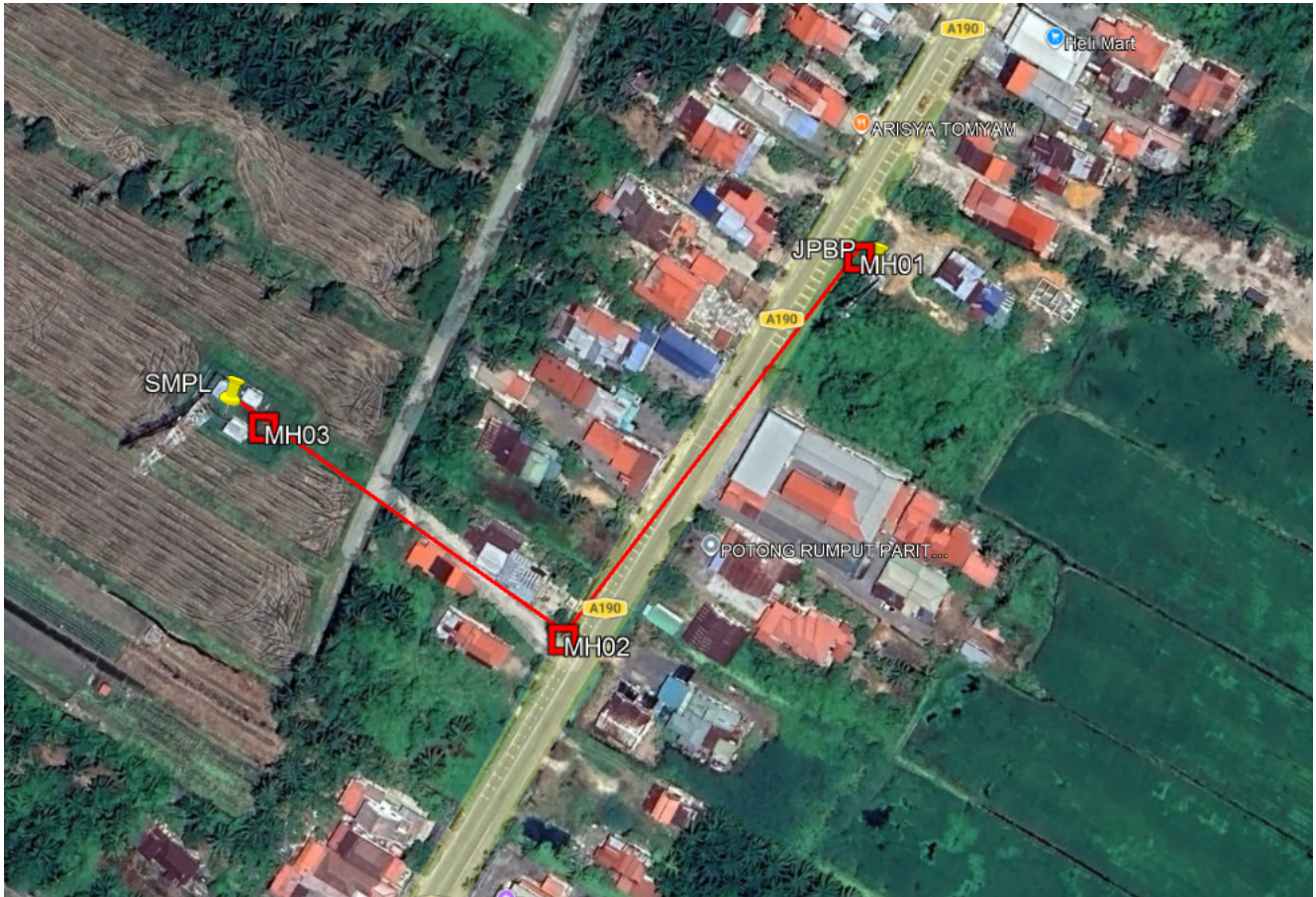
## 1.1. POC3 Summary



Site LRD	:	SMPL
Structure Type	:	CABIN
GPS Coordinate	:	5.072108, 100.474760
Site / Building Name	:	
Address	:	JALAN BAHARU, 34350 KUALAU KURAU, PERAK
POC3 Model	:	005A800-X2

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

### 2.1. Propose Route Details & Site Map



<b>LRD Point A</b>	UM JBPB	<b>LRD Point B</b>	MAXIS SMPL
<b>Address</b>	BANDAR SEREMBAN SELATAN, 71450 SEREMBAN, NEGERI SEMBILAN	<b>Address</b>	JALAN BAHARU, 34350 KUALAU KURAU, PERAK
<b>GPS Coordinates</b>	5.072537, 100.476611	<b>GPS Coordinates</b>	5.072108, 100.474760
<b>New Civil Build (M)</b>	350	<b>Existing Civil Build (M)</b>	20
<b>New Build Cable (M)</b>	350	<b>Existing Cable (M)</b>	N/A

**Local Council & Authority approval Requirement**

: JKR BAGAN SERAI & LANDLORD

## 2.2. OSP & ISP BOQ

Overall Proposed OSP Civil Infrastructure Design Distance		Unit	Quantity
1	Horizontal Directional Drilling with 1-way duct	M	300
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	15
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	N/A
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	Conduit/Cable Trunking	M	N/A

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	340

Overall Optic Splice Design		Unit	Quantity
1	Total Joint Closure	Ea	N/A

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

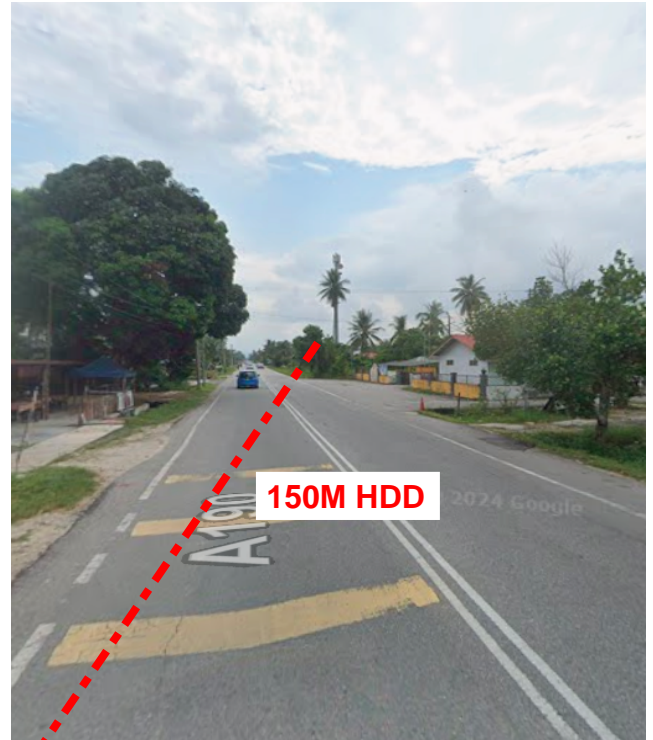
Overall Existing Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1				
2				
3				

Overall Propose Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	<b>PROP NEW MH01</b>	<b>5.072514</b>	<b>100.476590</b>	<b>150</b>
2	<b>PROP NEW MH02</b>	<b>5.071385</b>	<b>100.475630</b>	<b>150</b>
3	<b>PROP NEW MH03</b>	<b>5.071992</b>	<b>100.474936</b>	<b>15</b>
4				
5				
6				
7				
8				
9				

### 2.4. OSP/ISP Photo Illustration.



Picture 1: Propose MH02



Picture 2: Road crossing to Propose MH01



Picture 3: Proposed MH01



Picture 4: To Cabinet JBPB



### 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

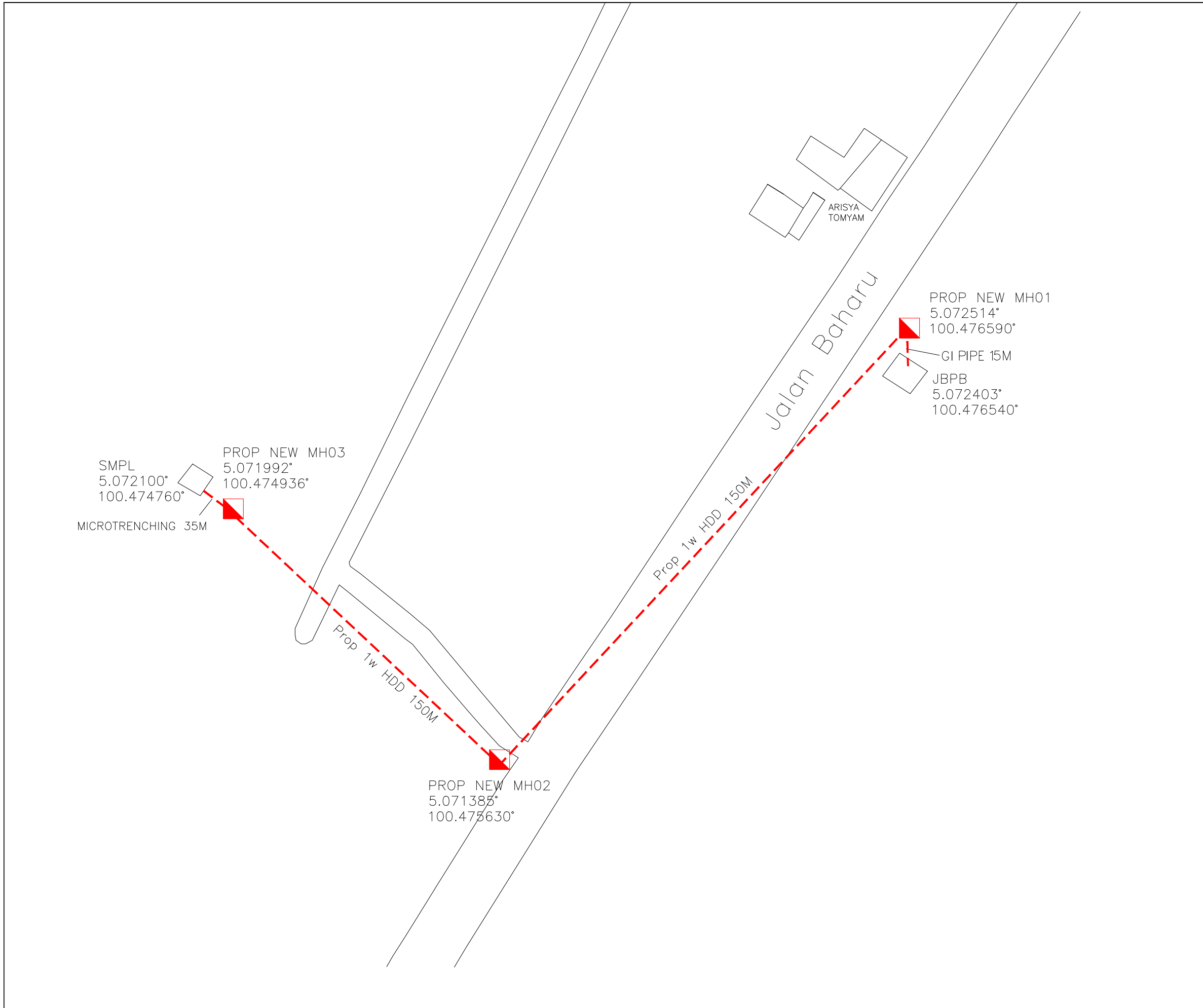


#### **4. Appendices**

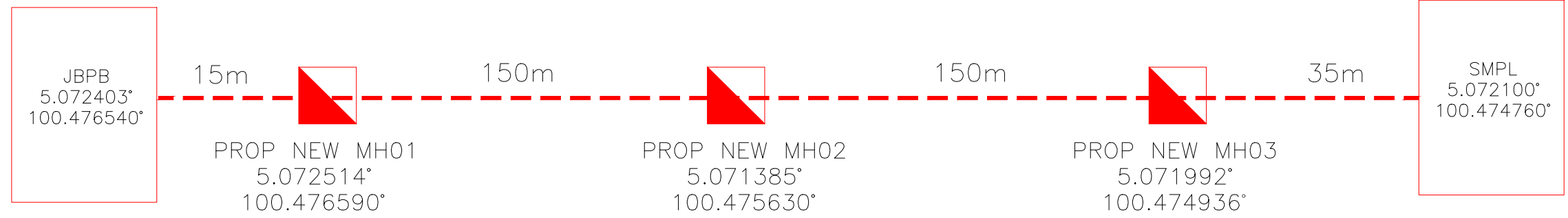
4.1. OSP Civil Design

4.2. OSP SLD Design

4.3. Costing BOQ



SITE MAPS DESIGN	
SITE NAME:	JBPB
PROJECT TITLE:	PROPOSED DRAWING
DWG ID:	UMG5/JBPB/01
DATE:	23/09/2025
SHEET:	1/1
SUMMARY NOTES	
TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	N/A
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	350
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 AERIAL CABLE	
PROPOSED AERIAL CABLE	
JKR BOUNDARY	
LOCAL COUNCIL BOUNDARY	
DESIGN BY: BINASAT SDN BHD	
MAXIS BROADBAND SDN BHD	
CHECKED BY :	MAXIS
CHECKED DATE :	
APPROVED/REJECTED BY :	MAXIS
APPROVED/REJECTED DATE:	



SITE MAPS DESIGN	
SITE NAME:	JBPB
PROJECT TITLE:	SINGLE LINE DRAWING
DWG ID:	UMG5/JBPB/01
DATE:	23/09/2025
SHEET:	1/1
SUMMARY NOTES	
TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	N/A
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	350
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 AERIAL CABLE	
PROPOSED AERIAL CABLE	
JKR BOUNDARY	
LOCAL COUNCIL BOUNDARY	
DESIGN BY: BINASAT SDN BHD	
MAXIS BROADBAND SDN BHD	
CHECKED BY :	MAXIS
CHECKED DATE :	
APPROVED/REJECTED BY :	MAXIS
APPROVED/REJECTED DATE:	