

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	:	1/8/2025



Project & Site Name	:	U MOBILE BUST
Site LRD	:	BUST
Address	:	ROOFTOP Jalan SM 1C/13, Bandar Baru
District	:	MANJUNG
Postcode & State	:	32040, PERAK
GPS Coordinate	:	4.195811, 100.666361
FTTx LRD	:	N/A
Home pass / Premise pass	:	N/A

UG Build (m)	110
Aerial Build (m)	N/A
Total Civil Build (m)	110

UG Cable (m)	150
Aerial Cable (m)	0
Coil at MH (m)	20
Total Cable (m)	170



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1. POC3 Summary & Details

1.1. POC3 Summary



Site LRD	:	MAXIS UJUN
Structure Type	:	Cabin
GPS Coordinate	:	4.196516, 100.667823
Site / Building Name	:	OYO MANJUNG INN HOTEL
Address	:	JLN SM1C/8 32040 SERI MANJUNG , PERAK
POC3 Model	:	

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

2.1. Propose Route Details & Site Map



LRD Point A	BUST	LRD Point B	EXT MH MAXIS
Address	ROOFTOP Jalan SM 1C/13, 32040 Seri Manjung, Perak	Address	JLN. SM1C/15 , 32040 SERI MANJUNG , PERAK
GPS Coordinates	4.195811 , 100.666361	GPS Coordinates	4.196516, 100.667823
New Civil Build (M)	110	Existing Civil Build (M)	
New Build Cable (M)	170	Existing Cable (M)	

Local Council & Authority approval Requirement : Majlis Perbandaran Manjung, Perak

2.2. OSP & ISP BOQ

Overall Proposed OSP Civil Infrastructure Design Distance		Unit	Quantity
1	Horizontal Directional Drilling with 1-way duct	M	NA
2	Horizontal Directional Drilling with 2-way duct	M	NA
3	Open trench on grass verge (GV) with 1-way duct	M	NA
4	Open trench on grass verge (GV) with 2-way duct	M	NA
5	Open trench on carriage way (CW) with 1-way duct	M	NA
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	110
8	Micro trenching 1-way (2-way x 25 mm GI Pipe for main road crossing)	M	NA

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

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

Overall Cable Infrastructure Design Distance		Unit	Quantity
1	1 Core Optical Fiber Cable	M	NA
2	48 Core Optical Fiber Cable UG/IB/ID	M	NA
3	96 Core Optical Fiber Cable UG/IB	M	NA
4	144 Core Optical Fiber Cable UG/IB/ID	M	170

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	A-LDYNH-0009-OOOM	4.195399	100.666013	
2	***	***	***	***
3	***	***	***	***

Overall Propose Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	MH01 JB30	4. 4.19569	100.666484	
2				
3				

2.4. OSP/ISP Photo Illustration.



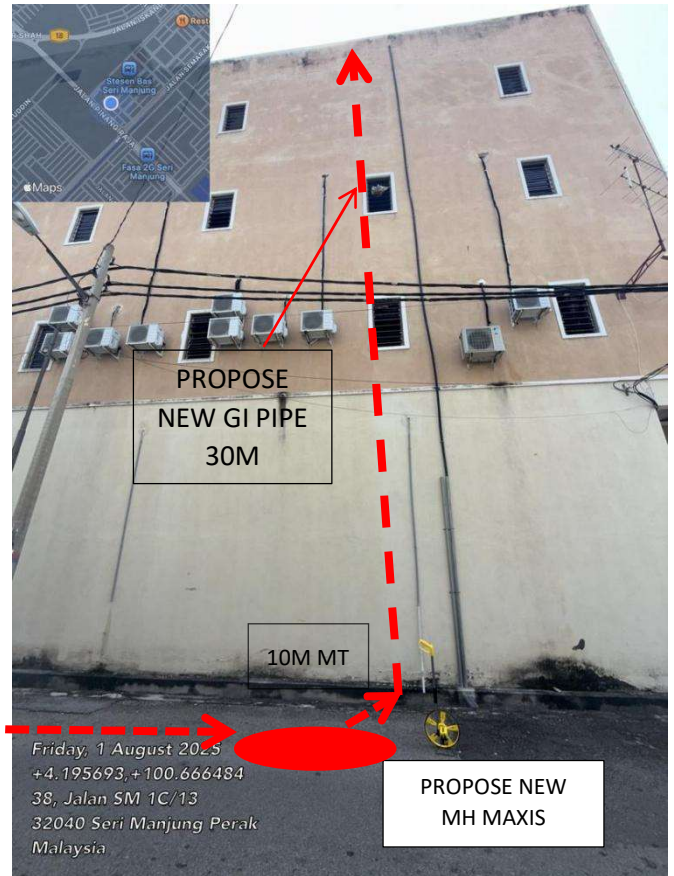
PICTURE 1 : JALAN SM 1C/15



Picture 2 - JALAN SM 1C/15



Picture 3 - JALAN SM 1C/15



Picture 4 - JALAN SM 1C/15



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

PETRONAS Sri
Manjung 2

EX MAXIS MH
A-LDYNH-0009-000M
4.195400,
100.666014



1W MT 100m

BUST

MT 10m, GI PIPE 30m,
CABLE WAY 10M

PROP MAXIS MH01
4.195692,
100.666483

SITE MAPS DESIGN

SITE NAME:	BUST
PROJECT TITLE:	UM5G - BUST
DWG ID:	UM5G/BUST/01
DATE:	05/08/2025
SHEET:	1/1

SUMMARY NOTES

TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	1
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	110
TOTAL PROPOSED OH CABLE (m):	N/A

LEGENDS

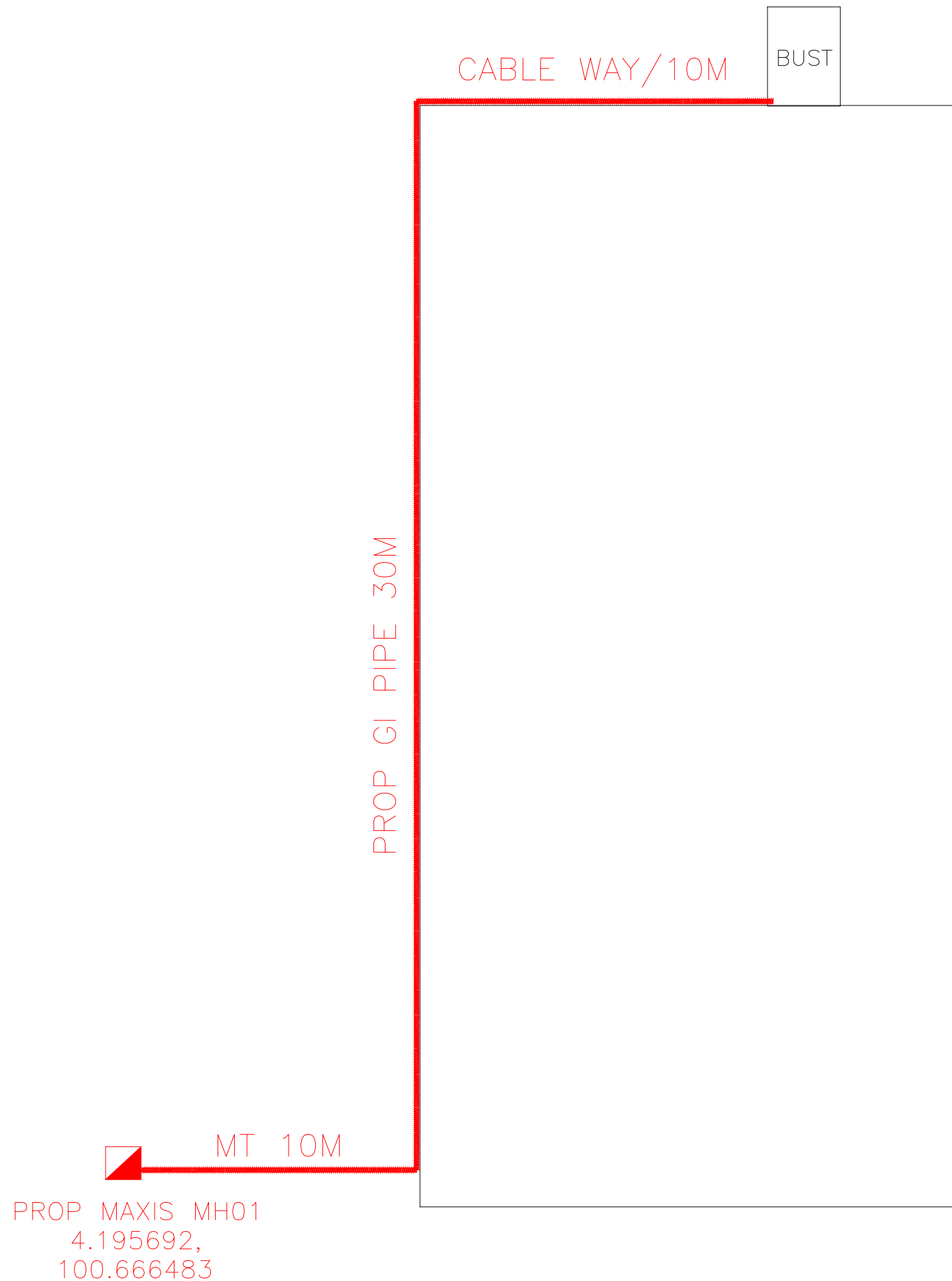
EXISTING FDC	
PROPOSED FDP	
EXISTING FDP	
PROPOSED MANHOLE	
EXISTING MANHOLE	
PROPOSED PIT/HANDHOLE	
EXISTING PIT/HANDHOLE	
PROPOSED G.i / DUCT RISER	
EXISTING G.i / DUCT RISER	
PROPOSED POLE	
EXISTING POLE	
PROPOSED CLOSURE / JOINT	
EXISTING PEDESTAL	
EXISTING UG DUCTWAY	
PROPOSED UG TRENCHING	
EXISTING 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 :	



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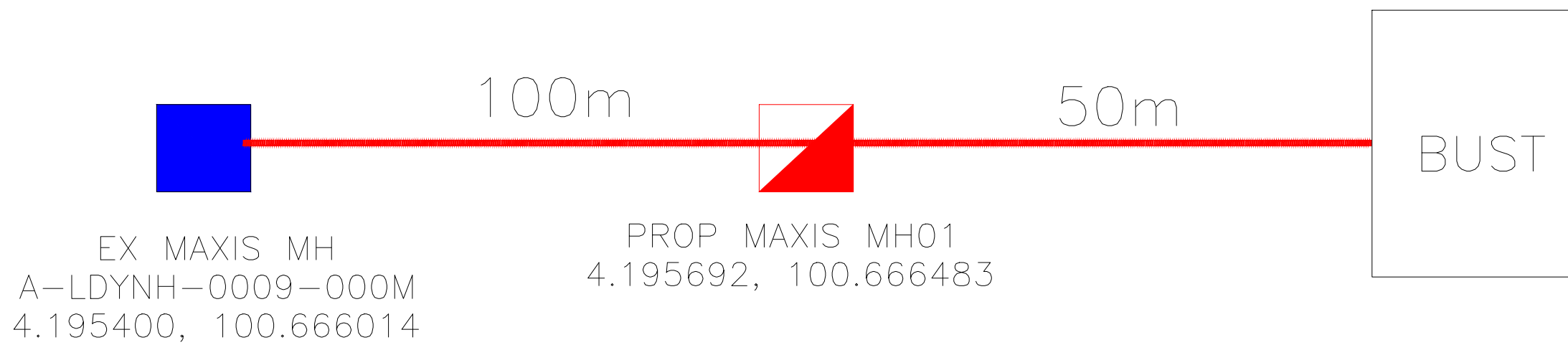
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