
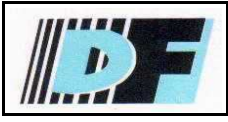
	Contractor	Direct Field Resources Sdn Bhd	
	SOW Ref	B12 - OSP Construction & Commissioning	
	LRD	UBES-SBES	
	Subject	Fiber Technical Proposal	



Region	<b>Eastern</b>		
KV/OKV	<b>OKV</b>		
Point A	<b>UBES</b>	Point B	<b>SBES</b>
Address	<b>AT AT PART OF LAND, UNIVERSITI TEKNOLOGI MARA KAMPUS BUKIT BESI, 23200, TERENGGANU.</b>		
Site A Lat Long	<b>4.728807, 103.196627</b>		
Site B Lat Long			
Structure Owner	<b>MAXIS</b>		

## **Table of Contents**

- Section 1: Proposal Sign-off sheet
- Section 2: Outside Plant Civil Infra Design Summary
- Section 3: Vicinity Map
- Section 4: Civil Infrastructure Route Plan & Permint Boundary
- Section 5: Proposed Manhole GPS Coordinates
- Section 6: Cable Infrastructure Route Plan & Proposed Cable Plan
- Section 7: Core Assignment Plan
- Section 8: Outside Plant Site Snapshot
- Section 9: Cabin Information & Floor Plan
- Section 10: Internal Trenching Permit/Snapshot
- Bill of Quantities (BoQ)



## Section 1: Proposal Sign-off Sheet

This proposal is contains the civil design proposal for [MAXIS SITE"UBES-SBES"](#)  
[AT AT PART OF LAND, UNIVERSITI TEKNOLOGI MARA KAMPUS BUKIT BESI,](#)  
[23200, TERENGGANU.](#)

All the information presented complied with Maxis Outside Plan technical specification & guidelines:

- Last Mile Telecommunication Systems Design and Survey (GLD/TNE/005)
- GLD/CATE/002 (Outside Plant Design and Build Guideline)
- OSPE GLD/TNE/003(Horizontal Directional Drilling Procedure & Guideline)
- OSPE GLD/TNE/004 (Road Reinstatement Work Guideline)

The proposed construction methodologies, material and Bill of Quantity are verified to be correct.

### Direct Field Resources Sdn Bhd

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Signature: \_\_\_\_\_

Check & Approved by: \_\_\_\_\_

Signature: \_\_\_\_\_

Submission Date: \_\_\_\_\_

### Maxis OSP Detail Design

Name: Heiri Azim

Designation: Transport Network Engineer

Signature: \_\_\_\_\_

Approval Date: \_\_\_\_\_



## Section 2: Outside Plant Civil Infra Design Summary

Overall proposed OSP Civil Infrastructure Design Distance	1485	meter
a. Horizontal directional drilling	1440	meter
b. Carriage way open cut trenching	0	meter
c. Grass verge open cut trenching	35	meter
d. Micro-trenching (mT)	0	meter
e. Maxis Pole	0	meter
f. Cable trunking	0	meter
g. GI Pipes Crossing/Riser	0	meter
h. Exist Cable Ladder	0	meter
i. Duct GI	10	meter

ITP trunking/riser length	0	meter
ITP cable length from Maxis fiber tapping point to new termination point at building/cabin	1633.5	meter
No. of proposed manhole	9	pc
Area of miling work required	0	meter

Local council & authority approval requirement	1485	meter
a. JKR DUNGUN	970	meter
b. LEMBAGA KEMAJUAN TERENGGANU TENGAH	505	meter
c. UITM MANAGEMENT	10	meter

Estimated Cost of the Scheme/Project	<b>0.00</b>	RM
--------------------------------------	-------------	----

Type of building:	<b>MONOPOLE</b>
Address:	<b>AT AT PART OF LAND, UNIVERSITI TEKNOLOGI MARA KAMPUS BUKIT BESI, 23200, TERENGGANU.</b>
Contact person:	
Contact no.:	



### Existing Infrastructure Information

Preceding duct/sub-duct space	Existing manhole at TAPPING T-LJKBR-0142-000M at JALAN (14)
Preceding duct/sub-duct condition	Existing duct and subduct have to test
Existing cable/fiber condition	TBD wants the design for all cluster is completed
Existing sites power & space	Space available

### Tenaga Pole Option

TNB pole availability	N/A
Distance of the TNB poles	N/A
Constraint	N/A

### Other Highlights/Remarks

--

### SLA

Date Survey Triggered

Survey Done (Days)	TP Submission (Days)
<b>3</b>	<b>14</b>

### Implementation

Method	Distance (m)	CW (Days)
Underground	1475	65
Pole	0	0
<b>Total</b>	<b>1475</b>	<b>65</b>

Date TP Submission   
 Date CW Completed



## Section 3





**MAXIS BROADBAND SDN BHD**

Level 5-9, 11, 14-25 & 29-30  
 Menara Maxis  
 Kuala Lumpur City Centre  
 Off Jalan Ampang 50088  
 50088 Kuala Lumpur

**Title:**

LOCATION PLAN FOR MAXIS SITE "UBES-SBES"  
 AT PART OF LAND, UNIVERSITI TEKNOLOGI MARA  
 KAMPUS BUKIT BESI, 23200, TERENGGANU.

**Designed by:**

DIRECT FIELD RESOURCES SDN BHD

**Prepared by:** DIRECT FIELD

**Job No:**

**Checked by:**

HEIRI AZIM

**Date:** 23/12/2024

**File:**

**Approved by:**

HEIRI AZIM

**Sheet no :** 1 OF 3

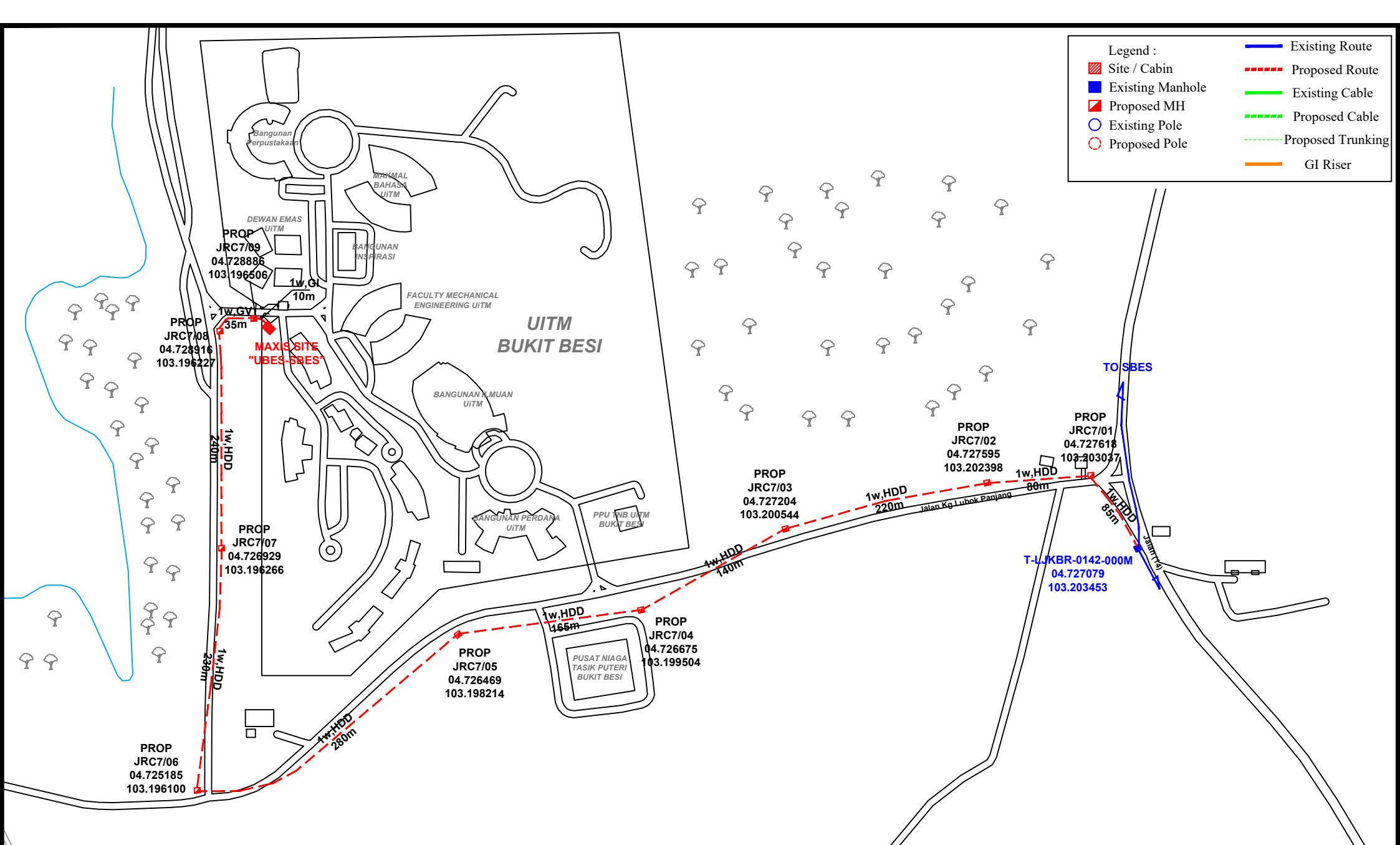
**Rev:**



## Section 4

# Civil Infrastructure Route Plan & Permit





Legend :	
	Site / Cabin
	Existing Manhole
	Proposed MH
	Existing Pole
	Proposed Pole
	Existing Route
	Proposed Route
	Existing Cable
	Proposed Cable
	Proposed Trunking
	GI Riser

**maxis**  
**MAXIS BROADBAND SDN BHD**  
 Level 5-9, 11, 14-25 & 29-30  
 Menara Maxis  
 Kuala Lumpur City Centre  
 Off Jalan Ampang 50088  
 50088 Kuala Lumpur

**Title:**  
 CIVIL PLAN FOR MAXIS SITE"UBES-SBES"  
 AT PART OF LAND, UNIVERSITI TEKNOLOGI MARA  
 KAMPUS BUKIT BESI, 23200, TERENGGANU.

**Designed by:**  
 DIRECT FIELD RESOURCES SDN BHD

**Prepared by:** DIRECT FIELD

**Job No:**

**Checked by:**  
 HEIRI AZIM

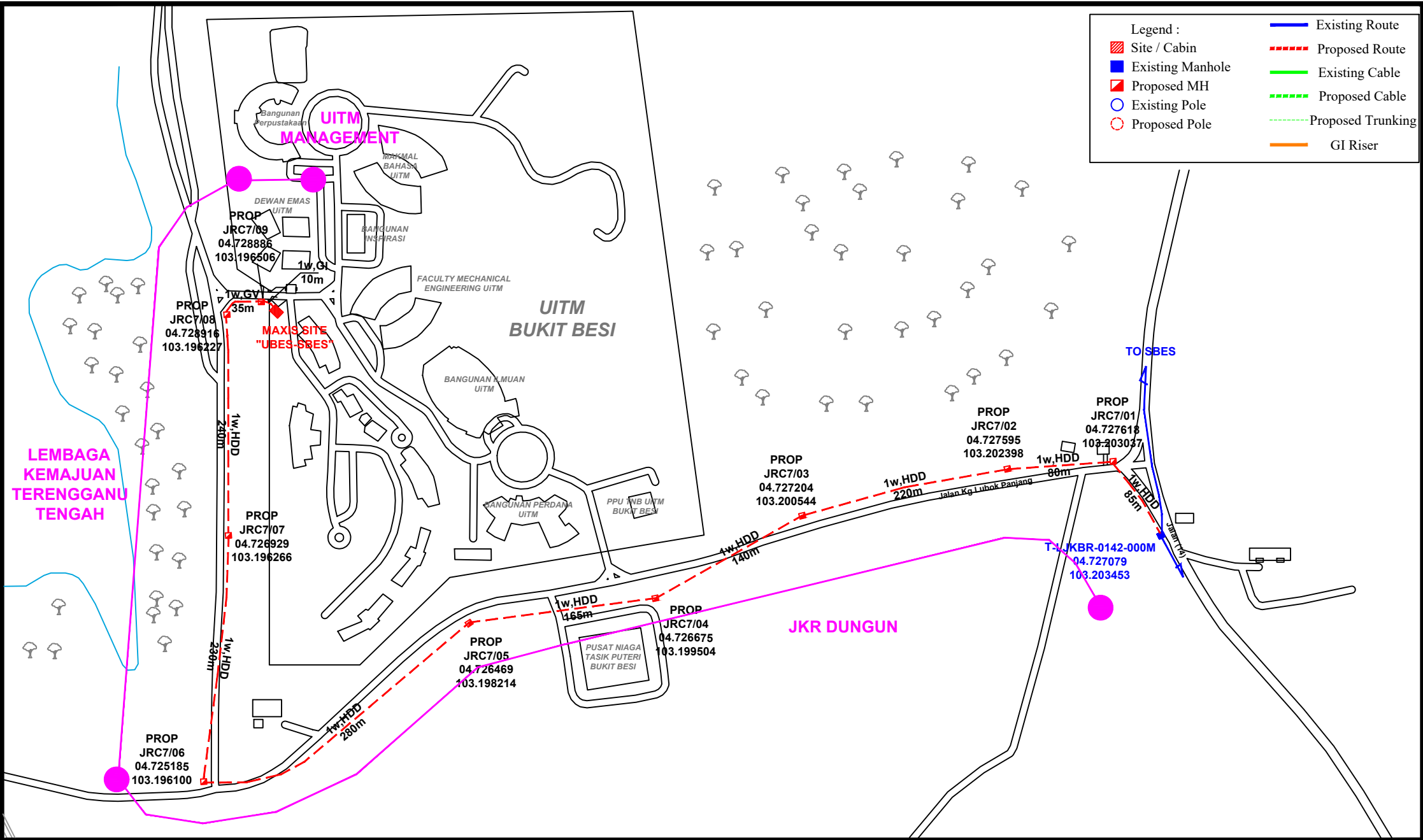
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**Approved by:**  
 HEIRI AZIM

**Sheet no :** 2 OF 3

**Rev:**



Legend :	
	Site / Cabin
	Existing Manhole
	Proposed MH
	Existing Pole
	Proposed Pole
	Existing Route
	Proposed Route
	Existing Cable
	Proposed Cable
	Proposed Trunking
	GI Riser

**maxis**  
**MAXIS BROADBAND SDN BHD**  
 Level 5-9, 11, 14-25 & 29-30  
 Menara Maxis  
 Kuala Lumpur City Centre  
 Off Jalan Ampang 50088  
 50088 Kuala Lumpur

**Title:**  
 AUTHORITY BOUNDARY PLAN FOR  
 MAXIS SITE"UBES-SBES"  
 AT PART OF LAND, UNIVERSITI TEKNOLOGI MARA  
 KAMPUS BUKIT BESI, 23200, TERENGGANU.

**Designed by:**  
 DIRECT FIELD RESOURCES SDN BHD

**Prepared by:** DIRECT FIELD

**Job No:**

**Checked by:**  
 HEIRI AZIM

**Date:** 23/12/2024

**File:**

**Approved by:**  
 HEIRI AZIM

**Sheet no :** 1 OF 1

**Rev:**

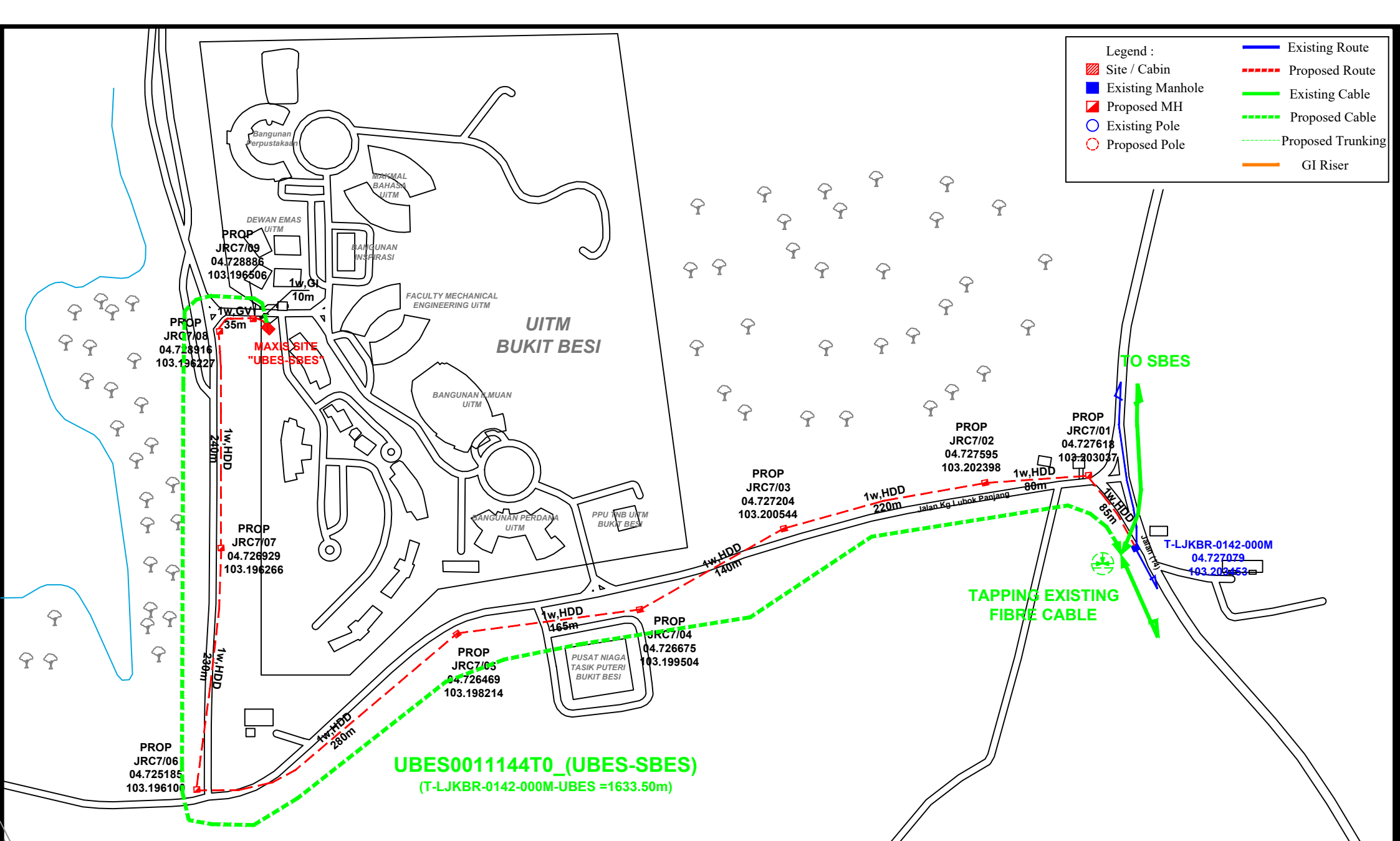




## Section 6

# Cable Infrastructure Route Plan & Proposed Cable Plan

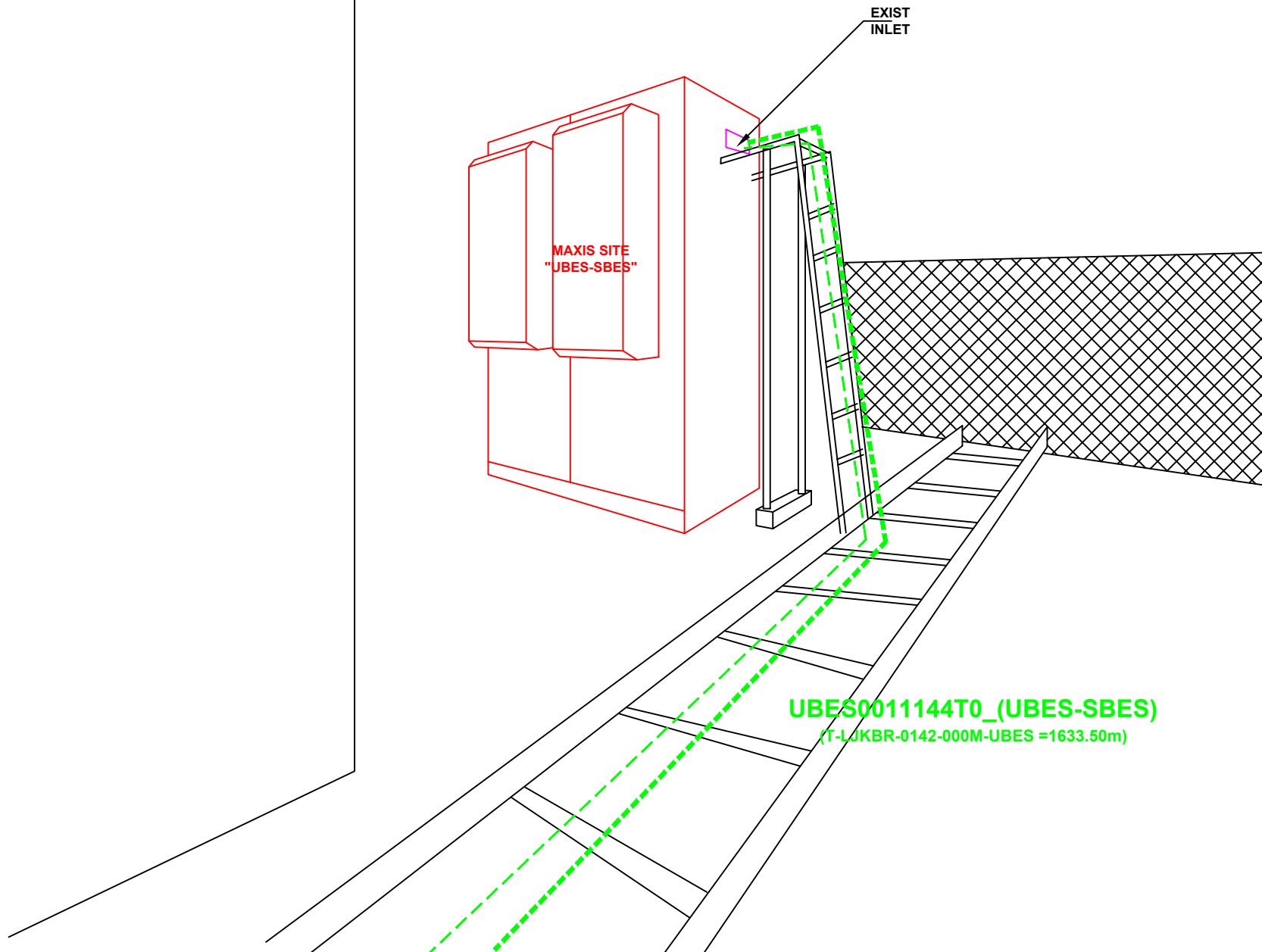




Legend :	
	Site / Cabin
	Existing Manhole
	Proposed MH
	Existing Pole
	Proposed Pole
	Existing Route
	Proposed Route
	Existing Cable
	Proposed Cable
	Proposed Trunking
	GI Riser

**UBES001144T0\_(UBES-SBES)**  
 (T-LJKBR-0142-000M-UBES =1633.50m)

<p><b>MAXIS BROADBAND SDN BHD</b>          Level 5-9, 11, 14-25 &amp; 29-30          Menara Maxis          Kuala Lumpur City Centre          Off Jalan Ampang 50088          50088 Kuala Lumpur</p>	<p><b>Title:</b>          SLD FIBRE CABLE 144 CORE PLAN          FOR SITE "UBES-SBES"          CABLE NAME: UBES001144T0_ (UBES-SBES)</p>	<p><b>Designed by:</b>          DIRECT FIELD RESOURCES SDN BHD</p>	<p><b>Checked by:</b>          HEIRI AZIM</p>	<p><b>Approved by:</b>          HEIRI AZIM</p>
		<p><b>Prepared by:</b> DIRECT FIELD</p>	<p><b>Date:</b> 23/12/2024</p>	<p><b>Sheet no :</b> 1 OF 4</p>
		<p><b>Job No:</b></p>	<p><b>File:</b></p>	<p><b>Rev:</b></p>



EXIST  
INLET

MAXIS SITE  
"UBES-SBES"

UBES0011144T0\_(UBES-SBES)  
(T-LJKBR-0142-000M-UBES =1633.50m)



**MAXIS BROADBAND SDN BHD**  
Level 5-9, 11, 14-25 & 29-30  
Menara Maxis  
Kuala Lumpur City Centre  
Off Jalan Ampang 50088  
50088 Kuala Lumpur

**Title:**  
SLD FIBRE CABLE 144 CORE PLAN  
FOR SITE "UBES-SBES"  
CABLE NAME: UBES0011144T0\_(UBES-SBES)

**Designed by:**  
DIRECT FIELD RESOURCES SDN BHD  
**Prepared by:** DIRECT FIELD  
**Job No:**

**Checked by:**  
HEIRI AZIM  
**Date:** 23/12/2024  
**File:**

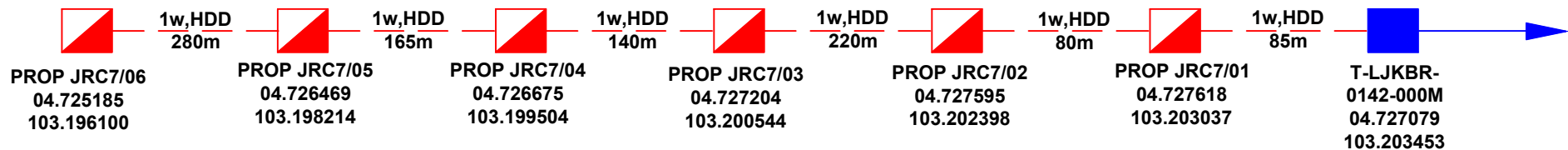
**Approved by:**  
HEIRI AZIM  
**Sheet no :** 2 OF 4  
**Rev:**

TAPPING EXISTING  
FIBRE CABLE

TO SBES

UBES0011144T0 (UBES-SBES)

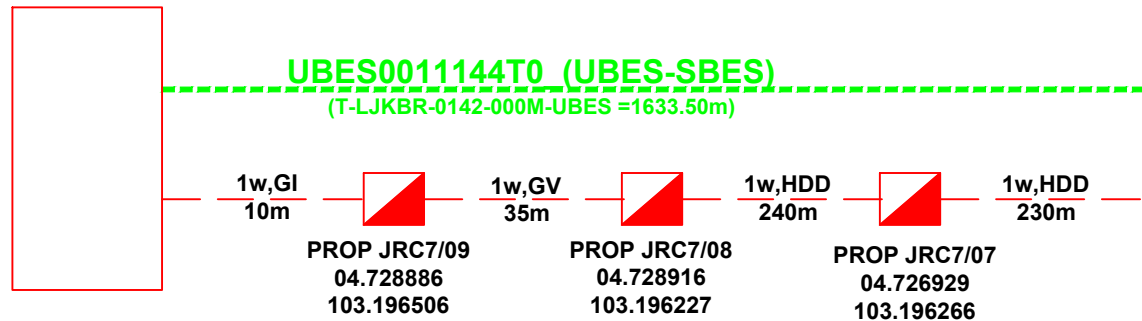
(T-LJKBR-0142-000M-UBES =1633.50m)



MAXIS SITE  
"UBES-SBES"

UBES0011144T0 (UBES-SBES)

(T-LJKBR-0142-000M-UBES =1633.50m)



MAXIS BROADBAND SDN BHD

Level 5-9, 11, 14-25 & 29-30  
Menara Maxis  
Kuala Lumpur City Centre  
Off Jalan Ampang 50088  
50088 Kuala Lumpur

Title:

SLD FIBRE CABLE 144 CORE PLAN  
FOR SITE "UBES-SBES"  
CABLE NAME: UBES0011144T0\_ (UBES-SBES)

Designed by:

DIRECT FIELD RESOURCES SDN BHD

Prepared by: DIRECT FIELD

Job No:

Checked by:

HEIRI AZIM

Date: 23/12/2024

File:

Approved by:

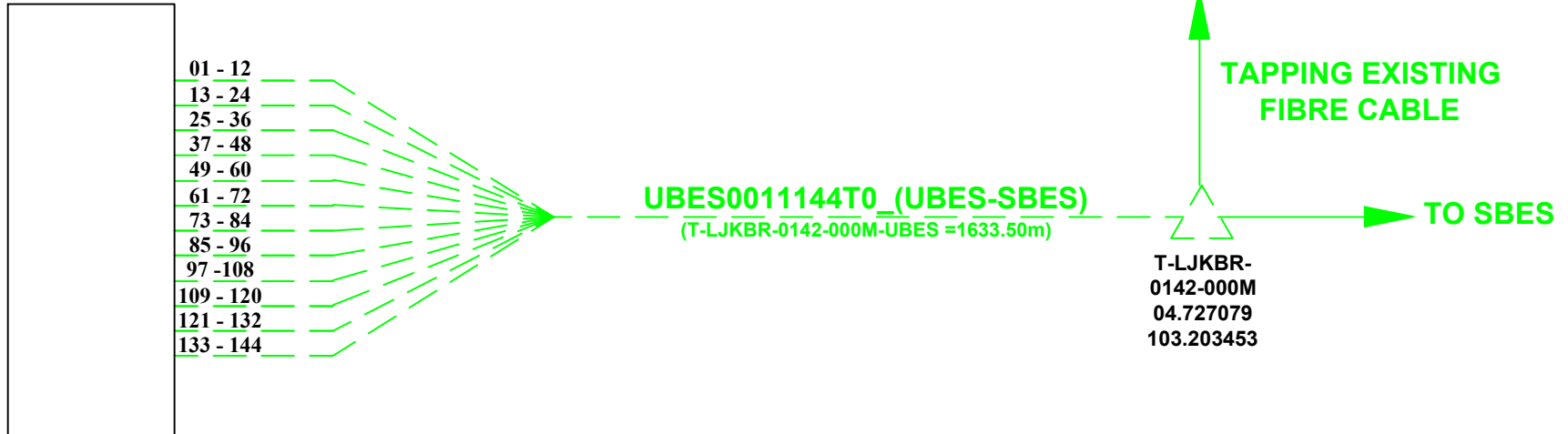
HEIRI AZIM

Sheet no : 3 OF 4

Rev:



**MAXIS SITE  
"UBES-SBES"**



**MAXIS BROADBAND SDN BHD**

Level 5-9, 11, 14-25 & 29-30  
Menara Maxis  
Kuala Lumpur City Centre  
Off Jalan Ampang 50088  
50088 Kuala Lumpur

**Title:**

SLD FIBRE CABLE 144 CORE PLAN  
FOR SITE "UBES-SBES"  
CABLE NAME: UBES0011144T0\_(UBES-SBES)

**Designed by:**

DIRECT FIELD RESOURCES SDN BHD

**Prepared by:** DIRECT FIELD

**Job No:**

**Checked by:**

HEIRI AZIM

**Date:** 23/12/2024

**File:**

**Approved by:**

HEIRI AZIM

**Sheet no :** 4 OF 4

**Rev:**

## MAXIS BROADBAND SDN BHD.

### CABLE CUTTING PLAN

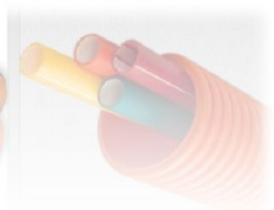
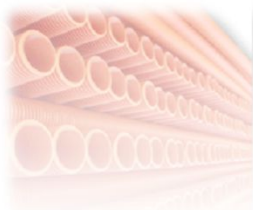
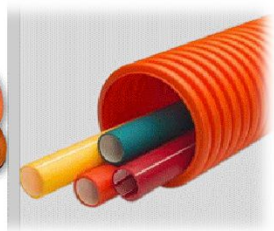
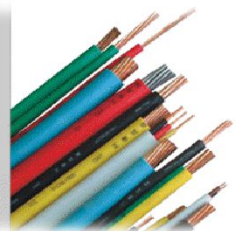
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PROJECT NAME	:	PROPOSED NEW CABLE FIBRE 144 CORES TO SITE "UBES-SBES"
PROJECT TYPE	:	
TITLE	:	
PROJECT CADE	:	
CONTRACTOR	:	DIRECT FIELD RESOURCES SDN BHD
PROJECT MANAGER	:	
LOCATION	:	AT AT PART OF LAND, UNIVERSITI TEKNOLOGI MARA KAMPUS BUKIT BESI, 23200, TERENGGANU.
QUANTITY REQUESTED	:	
REQUIRED DATE	:	

NO	SECTION			CABLE SIZE	ROUTE DISTANCE (METER)	CABLE ALLOWONES (METER)	ACTUAL CABLE LENGTH	SPLICING/TERMINATION POINT	REMARKS
1	T-LJKBR-0142-000M	TO	PROP JRC7/01	144CORE	85	8.50	93.50	TAPING	T-LJKBR-0142-000M
2	PROP JRC7/01	TO	PROP JRC7/02	144CORE	80	8.00	88.00		
3	PROP JRC7/02	TO	PROP JRC7/03	144CORE	220	22.00	242.00		
4	PROP JRC7/03	TO	PROP JRC7/04	144CORE	140	14.00	154.00		
5	PROP JRC7/04	TO	PROP JRC7/05	144CORE	165	16.50	181.50		
6	PROP JRC7/05	TO	PROP JRC7/06	144CORE	280	28.00	308.00		
7	PROP JRC7/06	TO	PROP JRC7/07	144CORE	230	23.00	253.00		
8	PROP JRC7/07	TO	PROP JRC7/08	144CORE	240	24.00	264.00		
9	PROP JRC7/08	TO	PROP JRC7/09	144CORE	35	3.50	38.50		
10	PROP JRC7/09	TO	MAXIS SITE"UBES"	144CORE	10	1.00	11.00	TERMINATION	MAXIS SITE"UBES"
					1485		1,633.50		



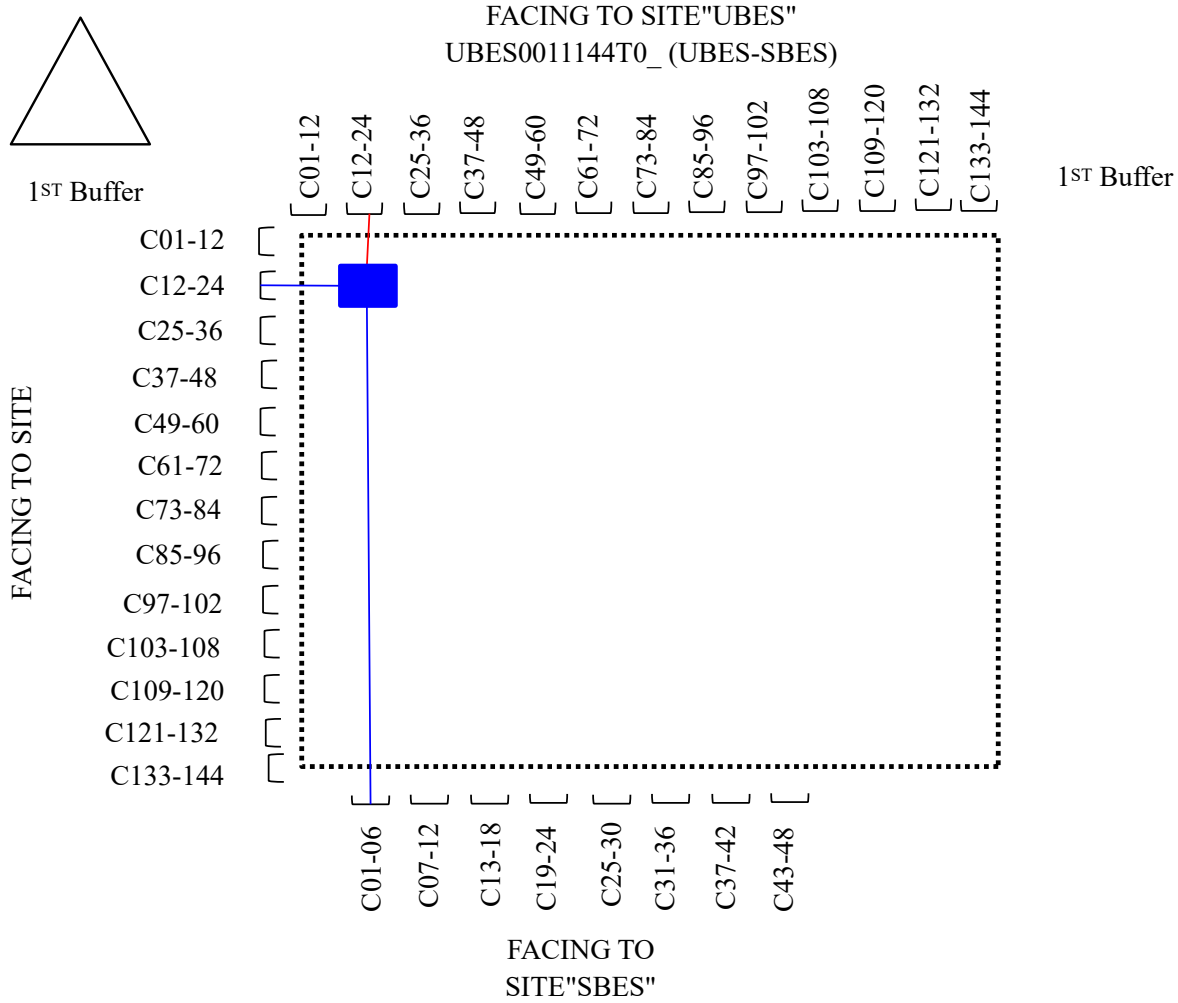
# Section 7

## Core Assignment





\*Legend: *Blue* - existing (black line change to blue), *Red* - Proposed



ACTUAL SPLICE CONFIGURATION NEED TO CONFIRM DURING IMPLEMENTATION AND  
TEAM NEED TO CONFIRM WITH CPC GROUP **EN DAHALAN DIN**

LEGEND



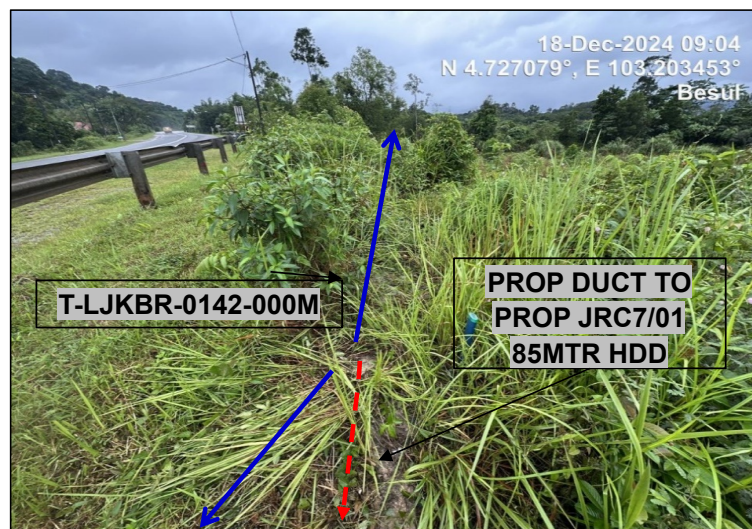


## Section 8: Outside Plant Site Snapshot

Photo 1

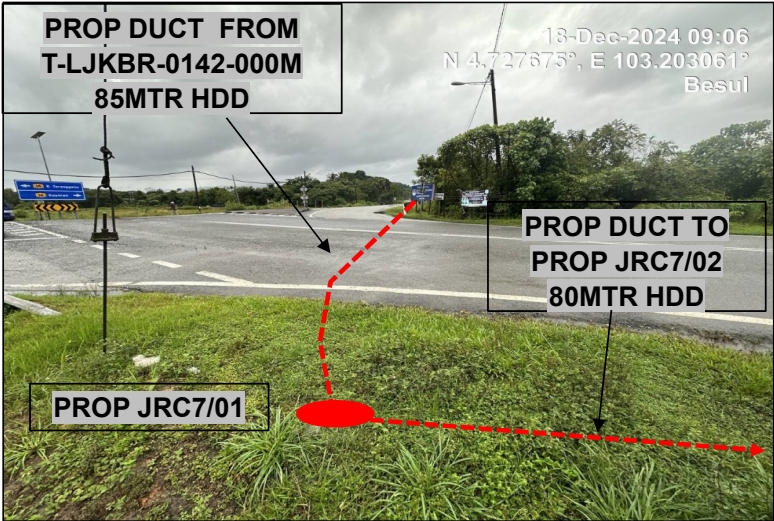


LOCATION AT JALAN (14)

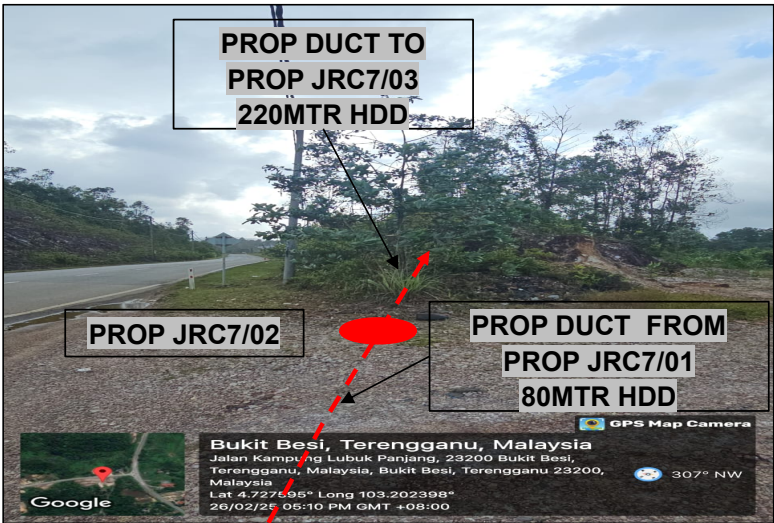


LOCATION AT JALAN (14)

Photo 2

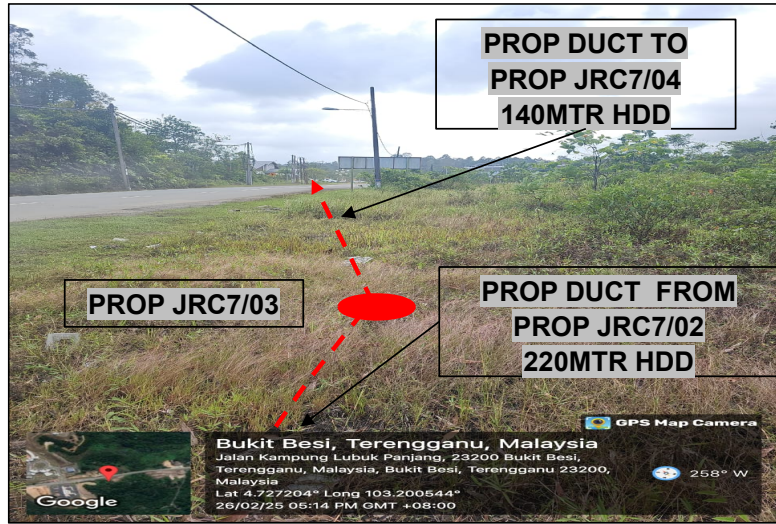


LOCATION AT JALAN KG LUBUK PANJANG

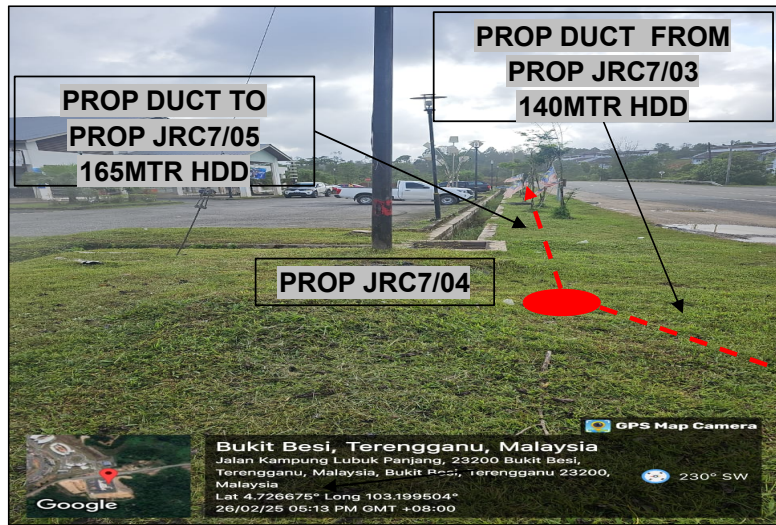


LOCATION AT JALAN KG LUBUK PANJANG

Photo 3

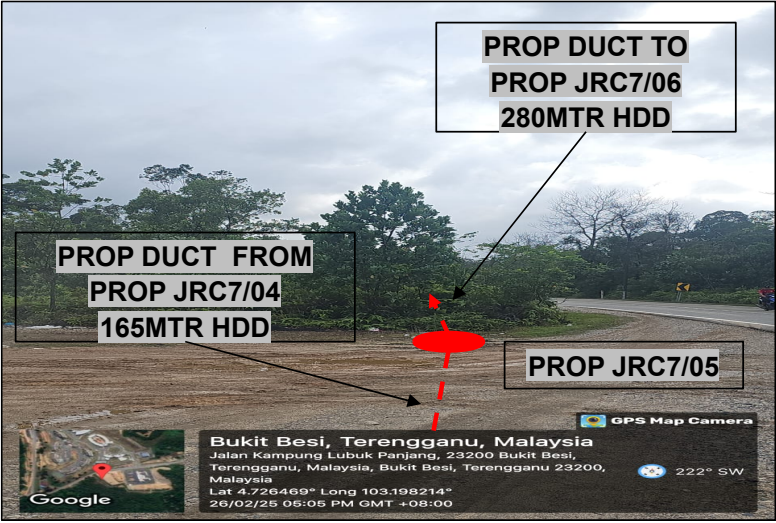


**LOCATION AT JALAN KG LUBUK PANJANG**

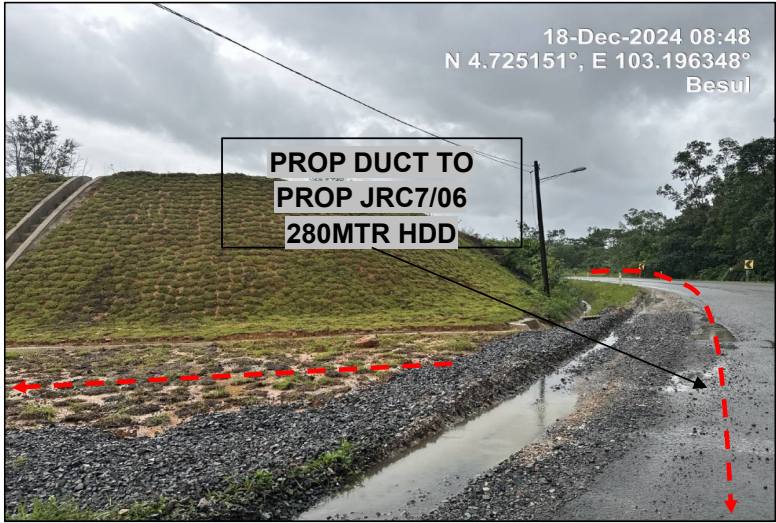


**LOCATION AT JALAN KG LUBUK PANJANG**

Photo 4

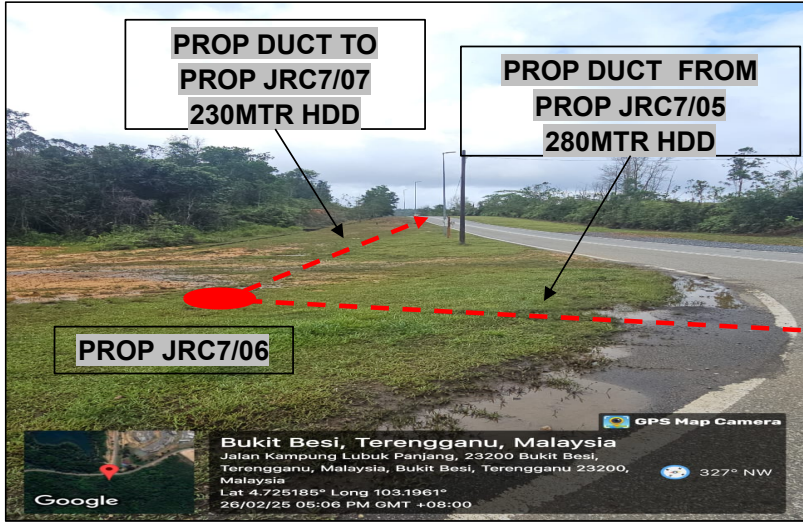


LOCATION AT JALAN KG LUBUK PANJANG

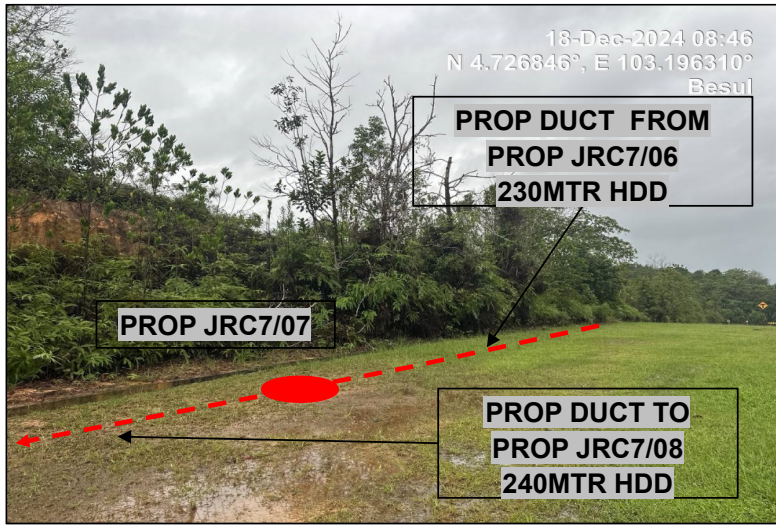


LOCATION AT JALAN KG LUBUK PANJANG

Photo 5

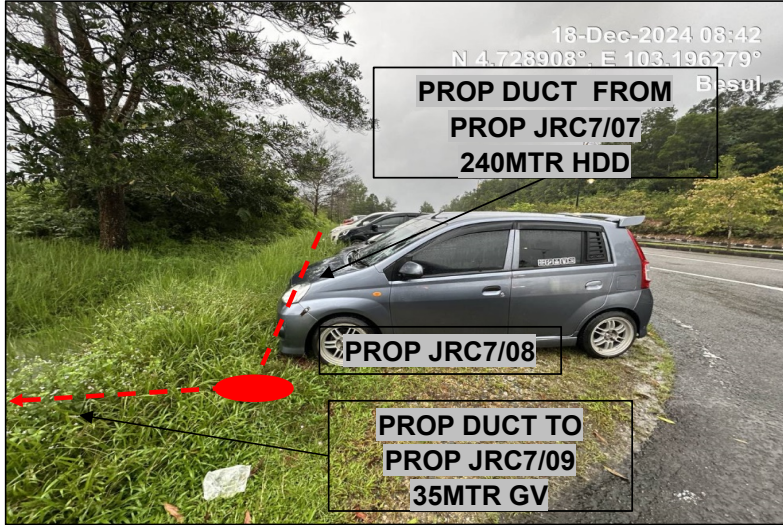


LOCATION AT JALAN

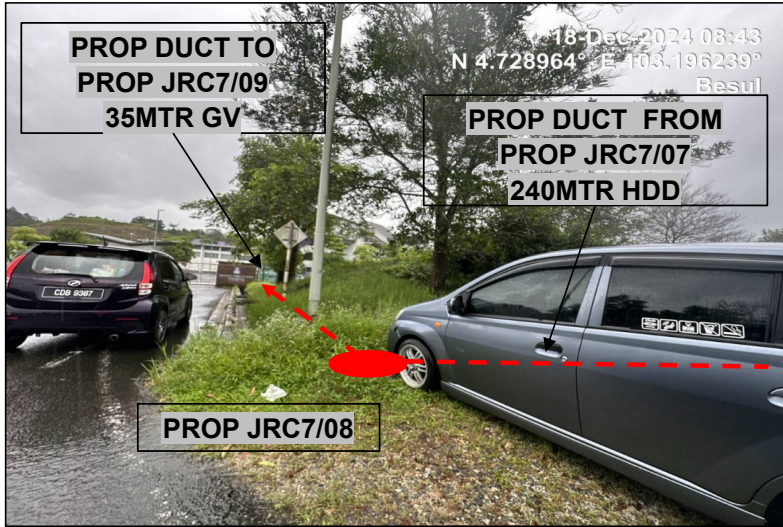


LOCATION AT JALAN

Photo 8



**LOCATION AT JALAN**

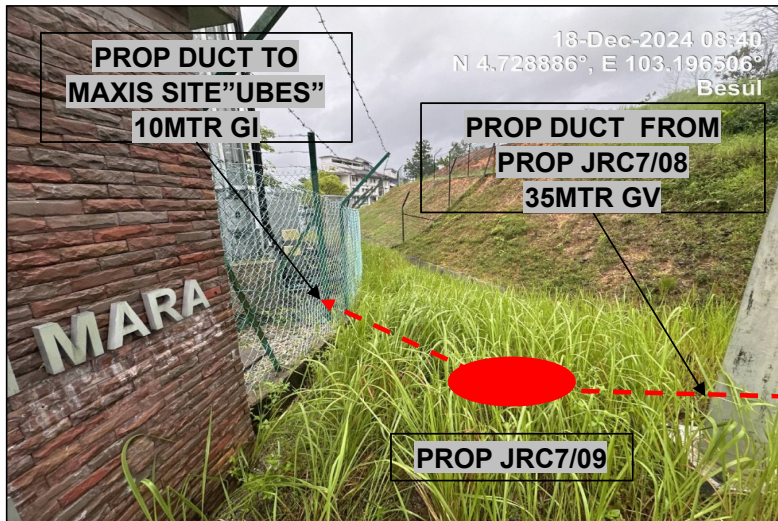


**LOCATION AT JALAN**

Photo 7



**LOCATION AT JALAN**



**LOCATION AT MAXIS SITE "UBES"**

Photo 8



**LOCATION AT MAXIS SITE "UBES"**

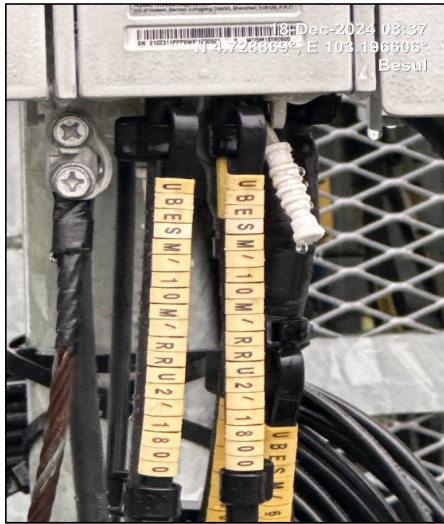


**LOCATION AT MAXIS SITE "UBES"**

Photo 9



**LOCATION AT MAXIS SITE "UBES"**



**LOCATION AT MAXIS SITE "UBES"**

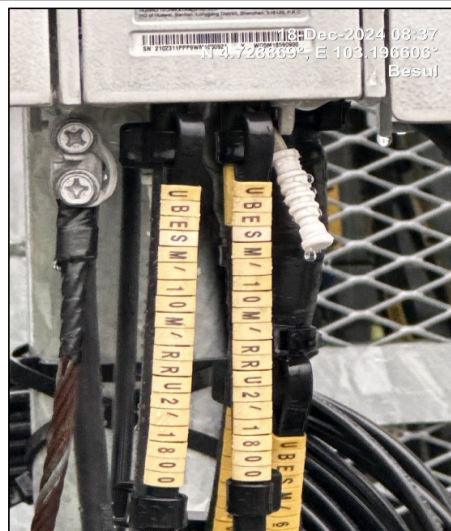


# Section 9: Cabin Snapshot & Floor Plan Schematic Plan

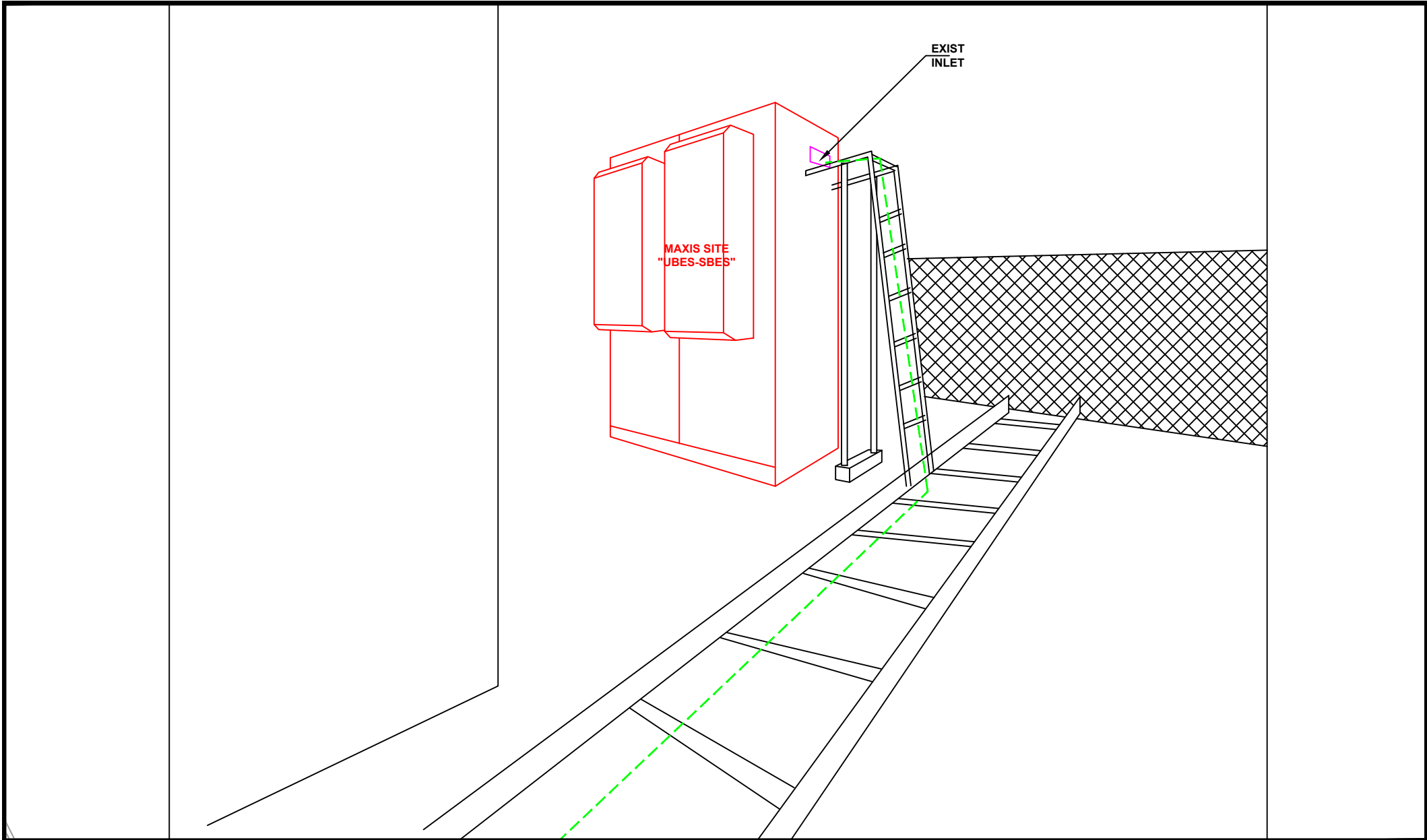
Photo 1



**LOCATION AT MAXIS SITE "UBES"**



**LOCATION AT MAXIS SITE "UBES"**



**MAXIS BROADBAND SDN BHD**

Level 5-9, 11, 14-25 & 29-30  
 Menara Maxis  
 Kuala Lumpur City Centre  
 Off Jalan Ampang 50088  
 50088 Kuala Lumpur

**Title:**

SCHEMATIC PLAN FOR MAXIS SITE "UBES-SBES"  
 AT PART OF LAND, UNIVERSITI TEKNOLOGI MARA  
 KAMPUS BUKIT BESI, 23200, TERENGGANU.

**Designed by:**

DIRECT FIELD RESOURCES SDN BHD

**Checked by:**

HEIRI AZIM

**Approved by:**

HEIRI AZIM

**Prepared by:** DIRECT FIELD

**Date:** 23/12/2024

**Sheet no :** 3 OF 3

**Job No:**

**File:**

**Rev:**

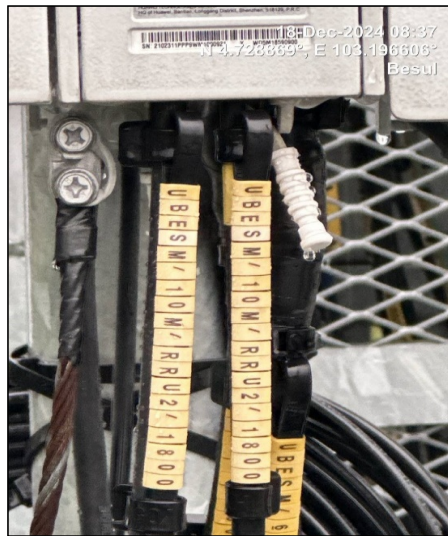


## Section 10: Internal Trenching Permit/Snapshot

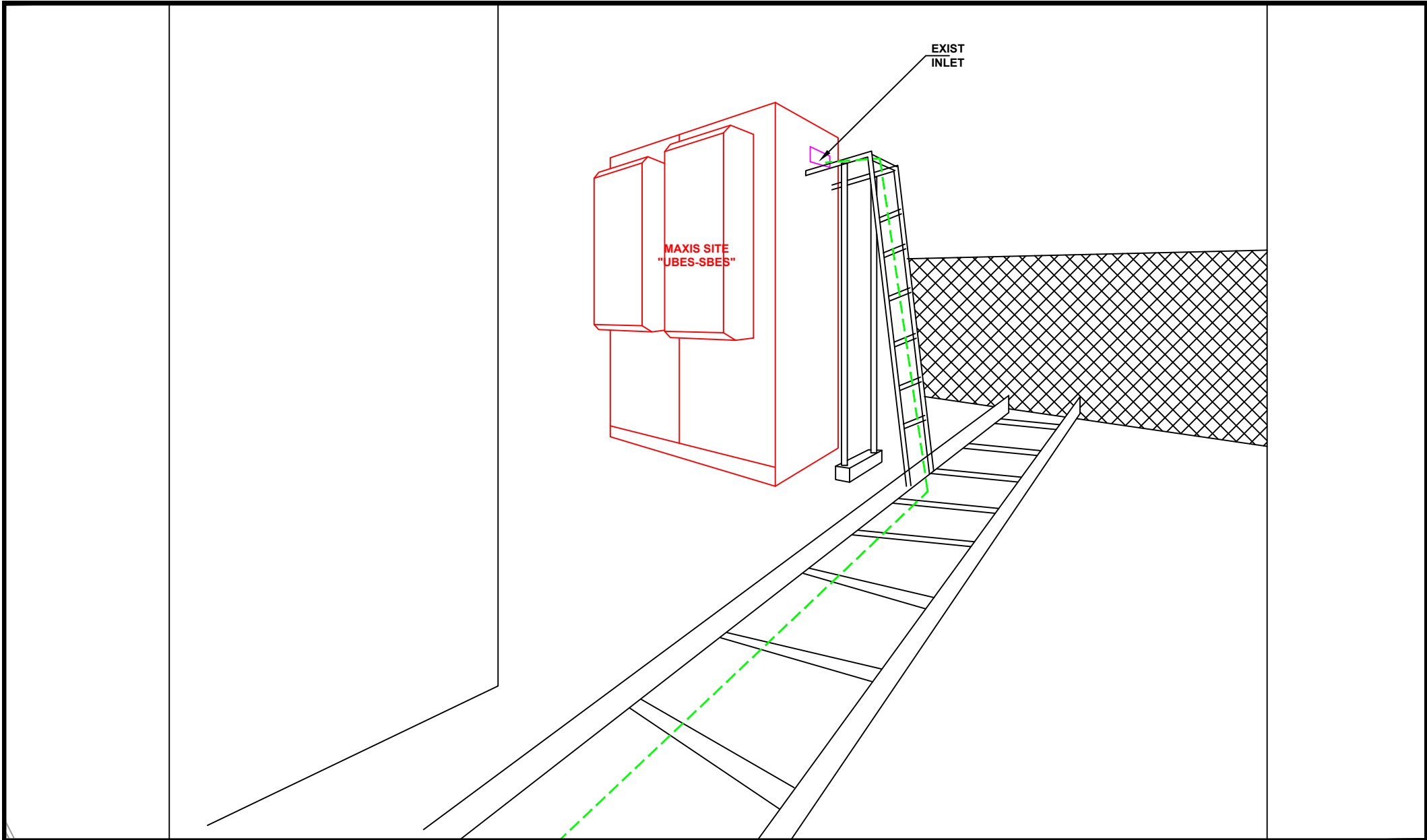
Photo 1



**LOCATION AT MAXIS SITE "UBES"**



**LOCATION AT MAXIS SITE "UBES"**



**MAXIS BROADBAND SDN BHD**

Level 5-9, 11, 14-25 & 29-30  
 Menara Maxis  
 Kuala Lumpur City Centre  
 Off Jalan Ampang 50088  
 50088 Kuala Lumpur

**Title:**

SCHEMATIC PLAN FOR MAXIS SITE "UBES-SBES"  
 AT PART OF LAND, UNIVERSITI TEKNOLOGI MARA  
 KAMPUS BUKIT BESI, 23200, TERENGGANU.

**Designed by:**

DIRECT FIELD RESOURCES SDN BHD

**Prepared by:** DIRECT FIELD

**Job No:**

**Checked by:**

HEIRI AZIM

**Date:** 23/12/2024

**File:**

**Approved by:**

HEIRI AZIM

**Sheet no :** 3 OF 3

**Rev:**