
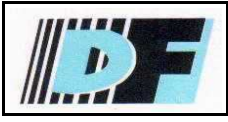
	Contractor	Direct Field Resources Sdn Bhd	
	SOW Ref	B12 - OSP Construction & Commisioning	
	LRD	RAKI-KTEM	
	Subject	Fiber Technical Proposal	



Region	Eastern		
KV/OKV	OKV		
Point A	RAKI	Point B	KTEM
Address	AT VACANT LAND, KAMPUNG TANJUNG BATU RAKIT, 21020 KUALA TERENGGANU, TERENGGANU.		
Site A Lat Long	5.449881, 103.047733		
Site B Lat Long			
Structure Owner	MAXIS		

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"RAKI-KTEM"
AT VACANT LAND, KAMPUNG TANJUNG BATU RAKIT, 21020 KUALA
TERENGGANU, 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: _____

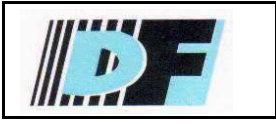
Maxis OSP Detail Design

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	5800	meter
a. Horizontal directional drilling	3635	meter
b. Carriage way open cut trenching	0	meter
c. Grass verge open cut trenching	2165	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. Cable Ladder	0	meter
i. Duct GI	0	meter

ITP trunking/riser length	0	meter
ITP cable length from Maxis fiber tapping point to new termination point at building/cabin	$48c = 6380$ $144c$ $= 12760$	meter
No. of proposed manhole	22	pc
Area of miling work required	0	meter

Local council & authority approval requirement	5800	meter
a. JKR KUALA TERENGGANU	5300	meter
b. MAJLIS BANDARAYA KUALA TERENGGANU	500	meter
c.		meter

Estimated Cost of the Scheme/Project	0.00	RM
--------------------------------------	-------------	----

Type of building:	TOWER
Address:	AT VACANT LAND, KAMPUNG TANJUNG BATU RAKIT, 21020 KUALA TERENGGANU, TERENGGANU.
Contact person:	
Contact no.:	



Existing Infrastructure Information

Preceding duct/sub-duct space	Existing manhole at T-ST145-0010-000M MH at JALAN (T145)
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)
7	14

Implementation

Method	Distance (m)	CW (Days)
Underground	5800	80
Pole	0	0
Total	5800	80

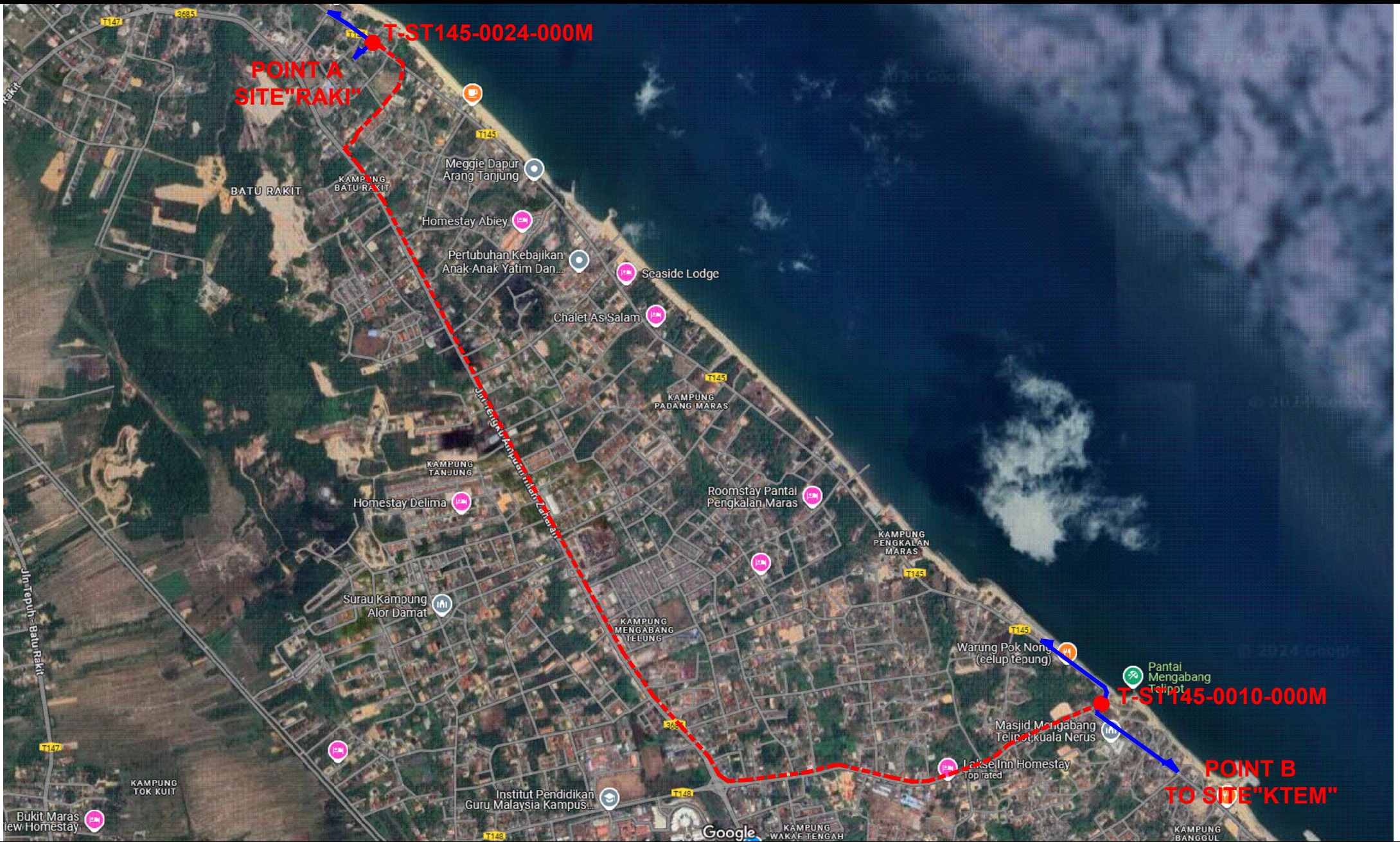
Date TP Submission

Date CW Completed



Section 3





MAXIS BROADBAND SDN BHD
 Level 5–9, 11, 14–25 & 29–30
 Menara Maxis
 Kuala Lumpur City Centre

Title:
 LOCATION PLAN FOR MAXIS SITE"RAKI-KTEM"
 AT VACANT LAND, KAMPUNG TANJUNG BATU
 RAKIT, 21020 KUALA TERENGGANU,
 TERENGGANU.

Designed by:
 DIRECT FIELD RESOURCES SDN BHD

Prepared by: DIRECT FIELD

Checked by:
 HEIRI AZIM

Date: 27/12/2024

Approved by:
 HEIRI AZIM

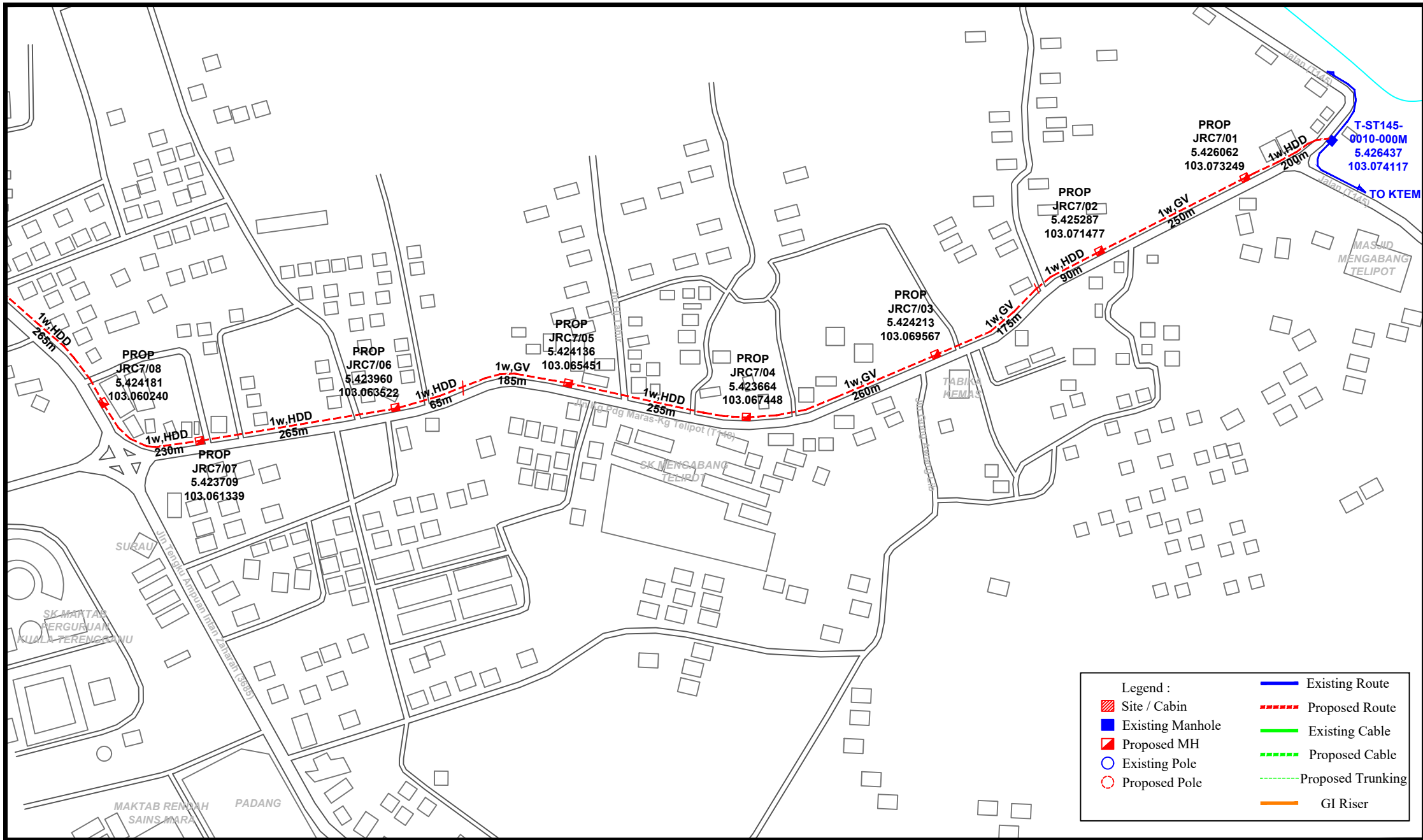
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Section 4

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 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 "RAKI-KTEM"
 AT VACANT LAND, KAMPUNG TANJUNG BATU
 RAKIT, 21020 KUALA TERENGGANU,
 TERENGGANU.

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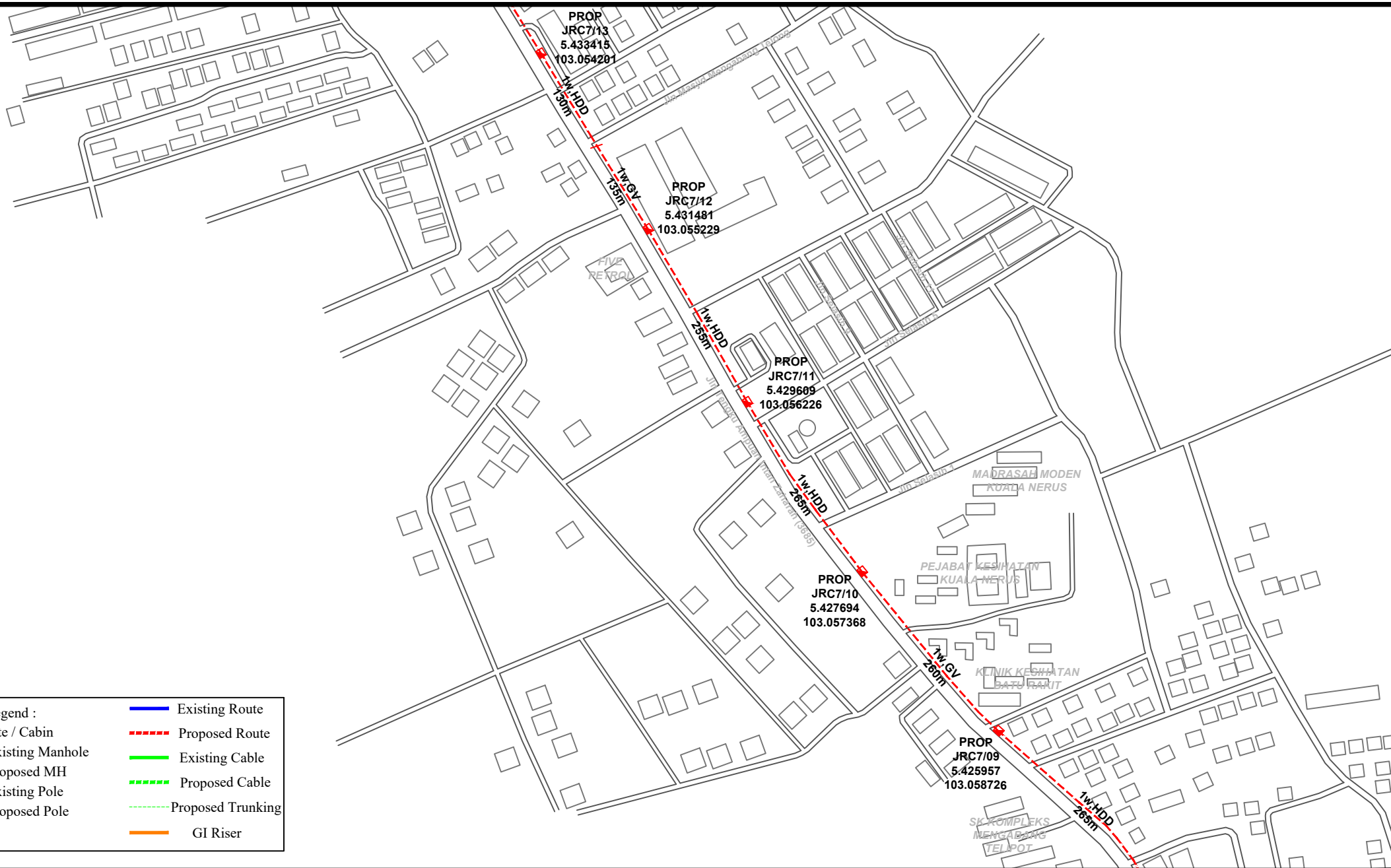
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 HEIRI AZIM

Sheet no : 2 OF 5

Rev:



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

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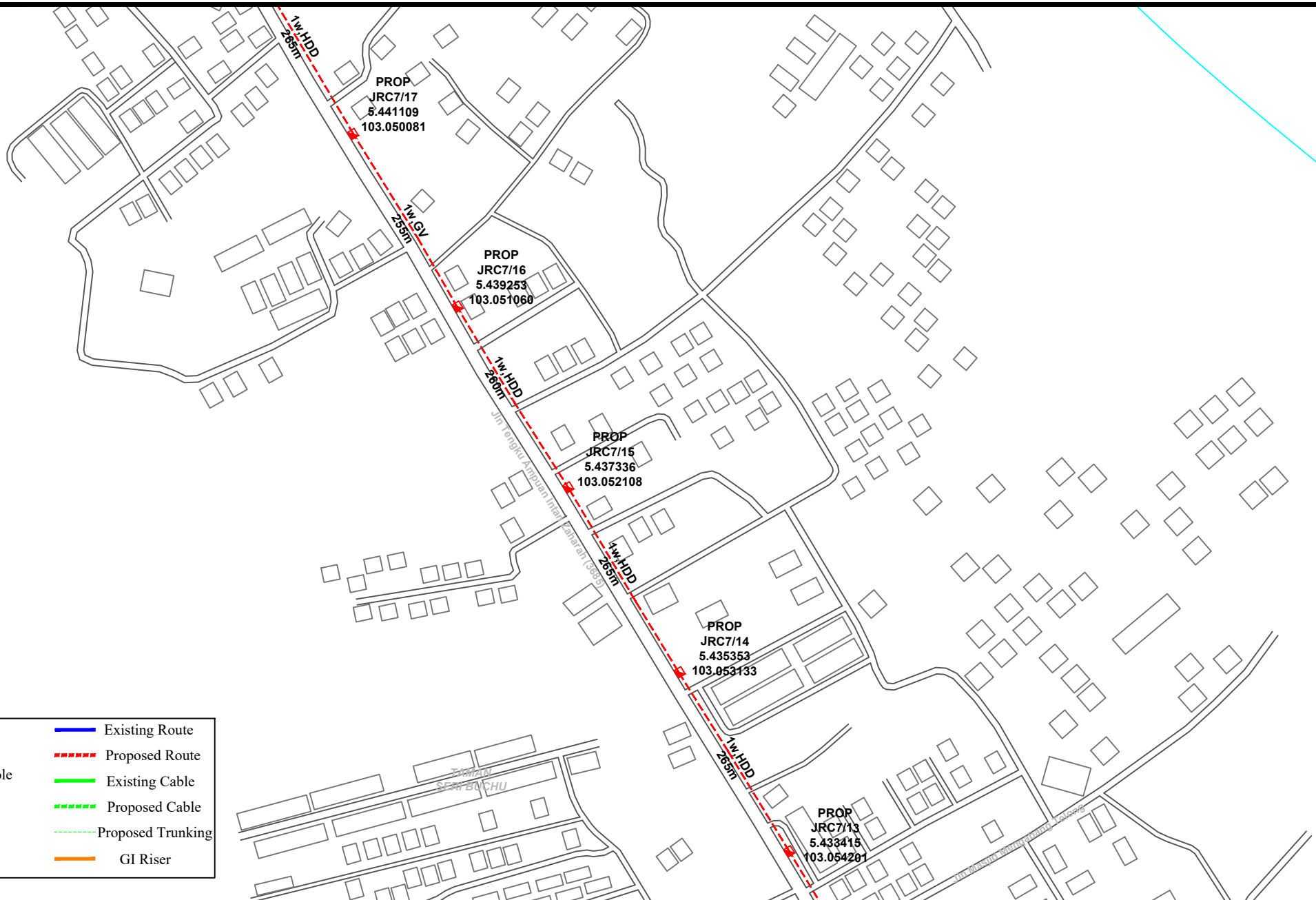
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Sheet no : 3 OF 5

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

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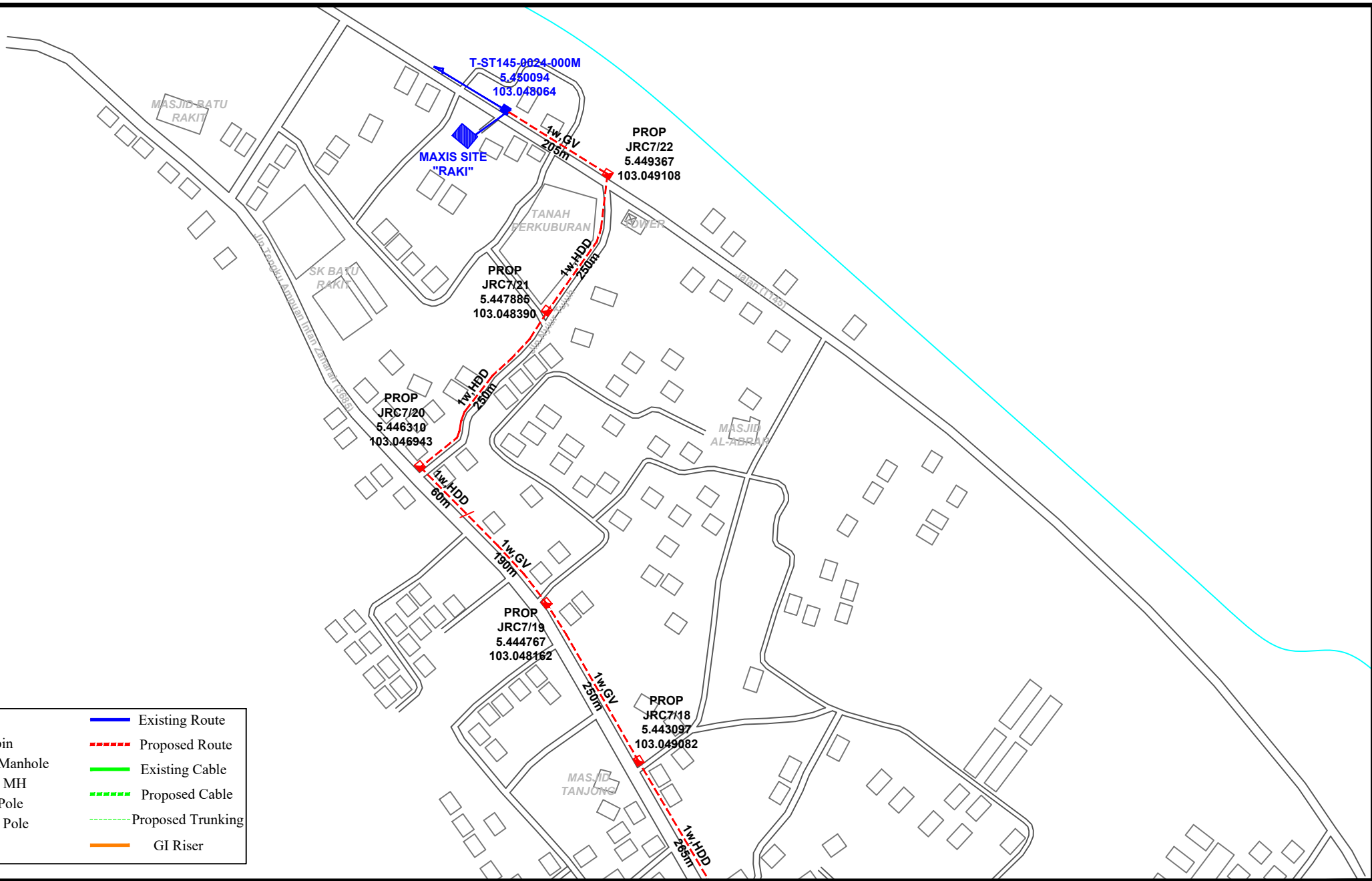
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Sheet no : 4 OF 5

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Legend :	Existing Route
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Proposed MH	Proposed Cable
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Proposed Pole	GI Riser

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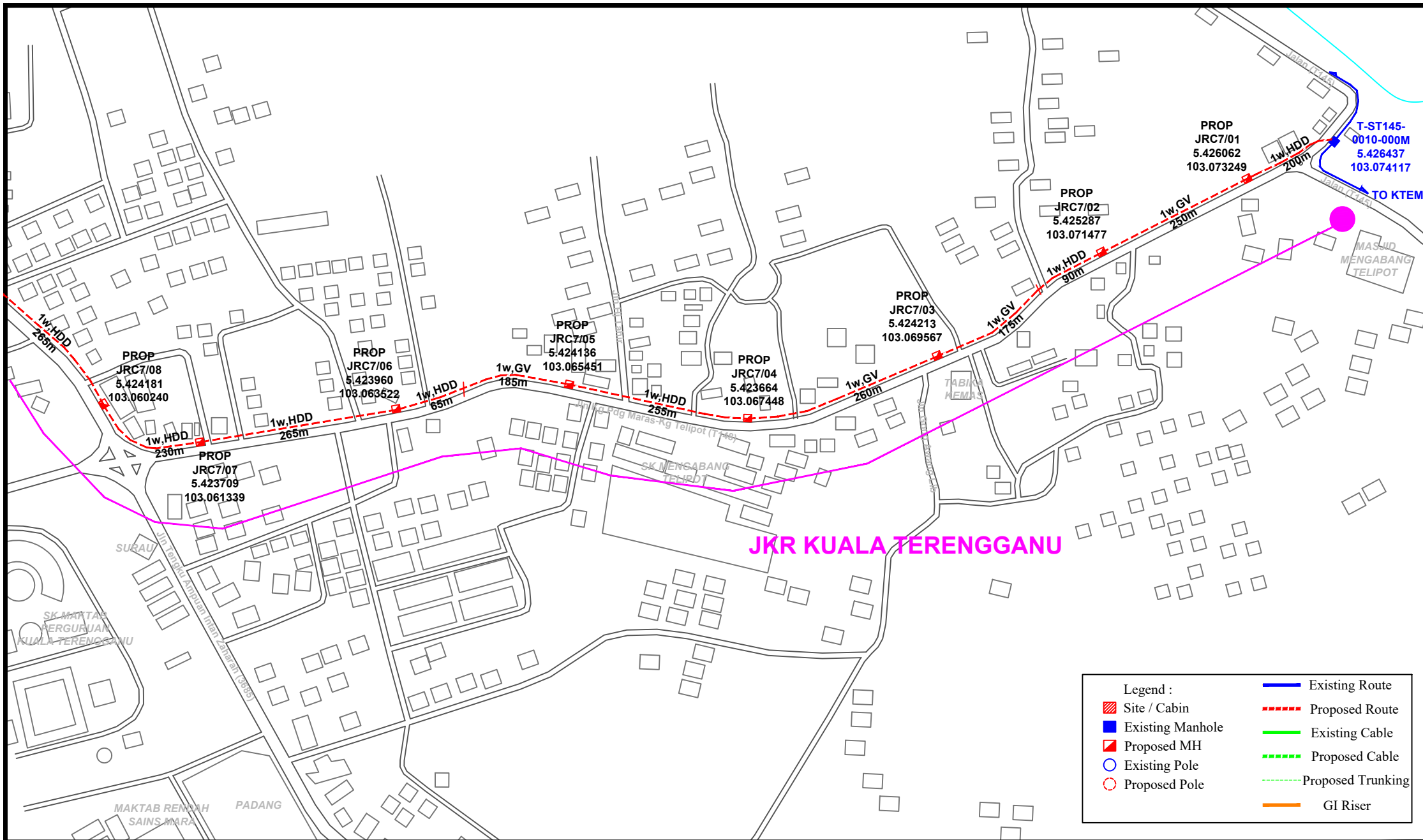
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 50088 Kuala Lumpur

Title:
 AUTHORITY BOUNDARY PLAN FOR
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 AT VACANT LAND, KAMPUNG TANJUNG BATU
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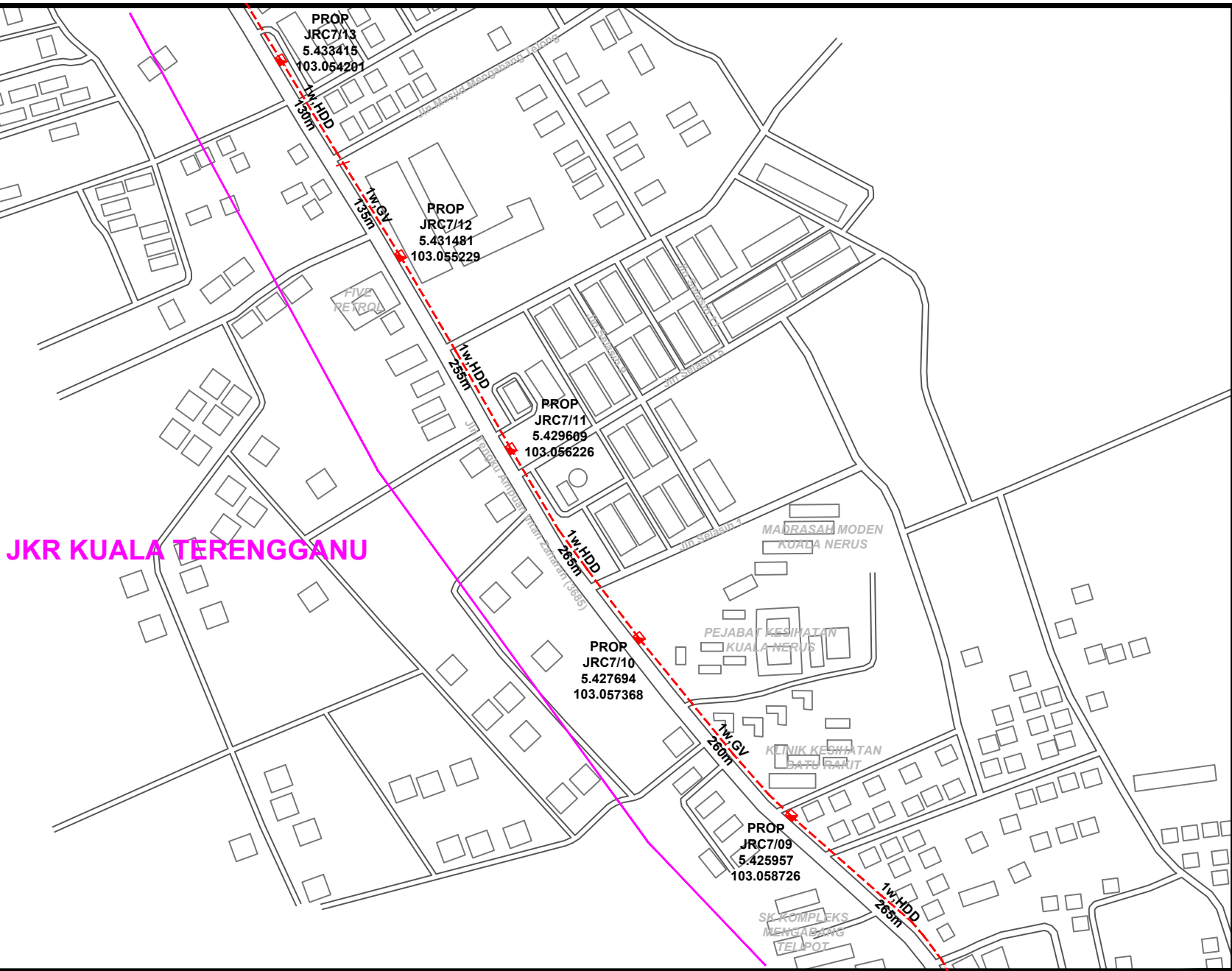
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Sheet no : 1 OF 4

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JKR KUALA TERENGGANU

Legend :	
	Site / Cabin
	Existing Manhole
	Proposed MH
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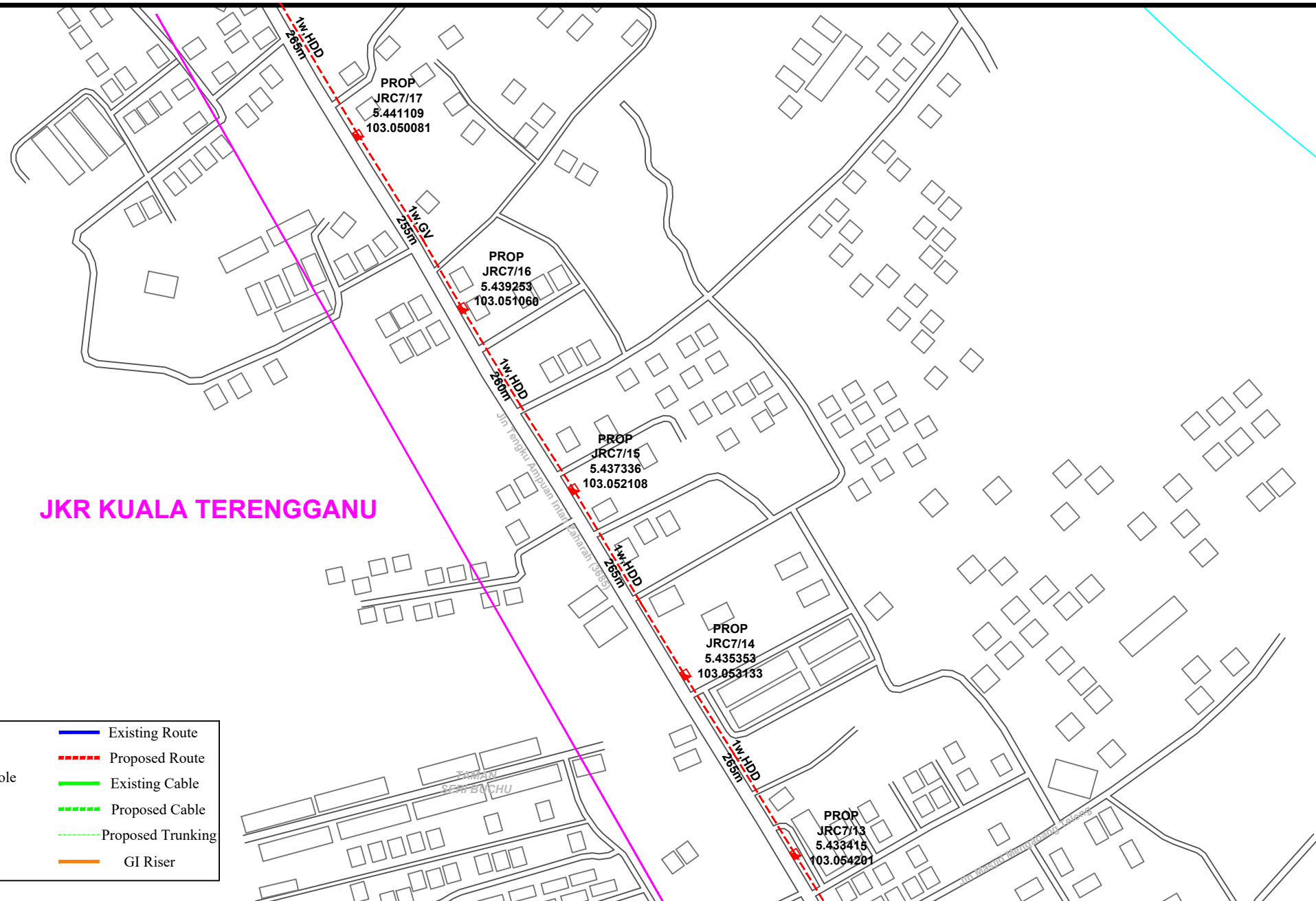
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JKR KUALA TERENGGANU



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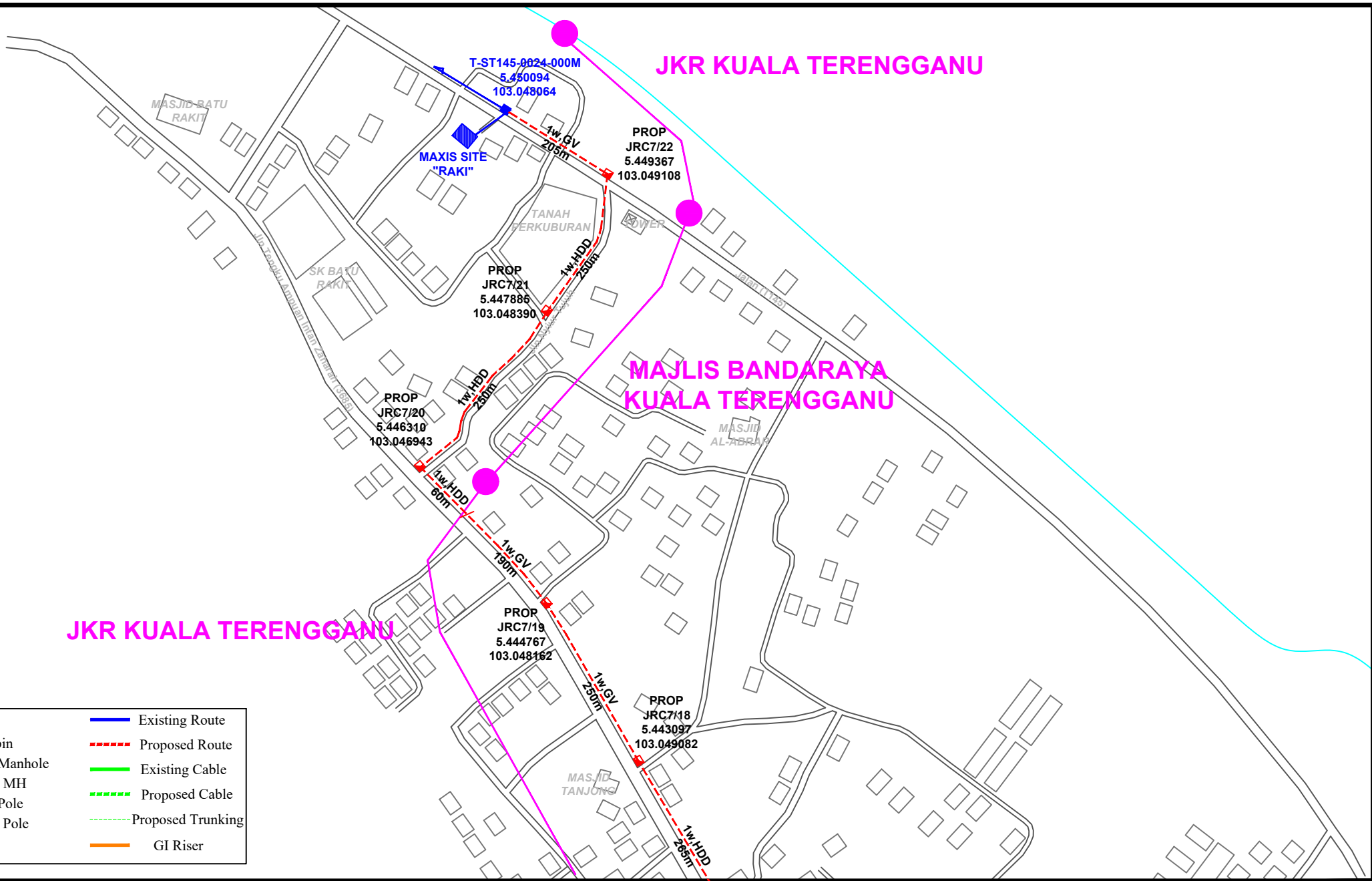
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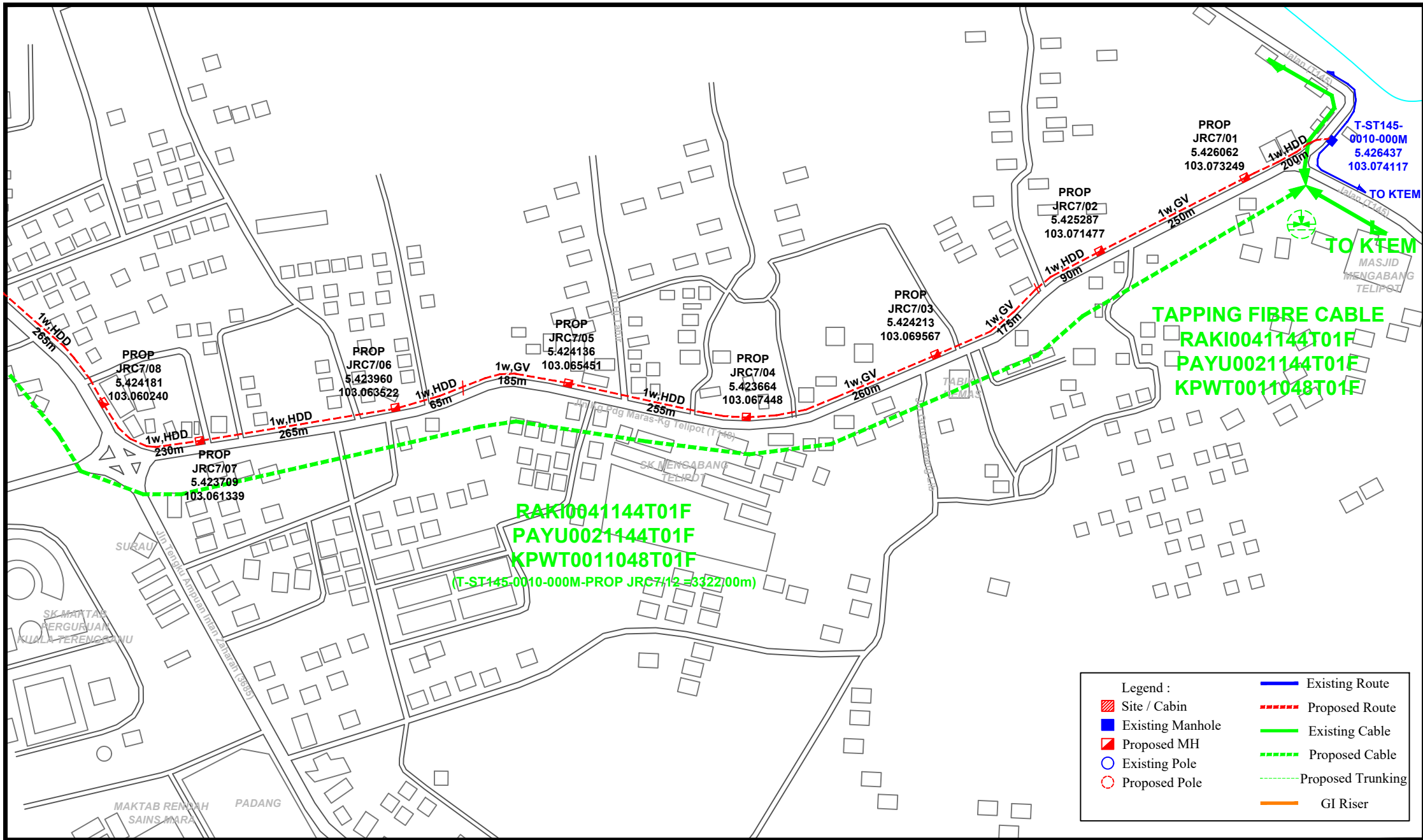
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Section 6

Cable Infrastructure Route Plan & Proposed Cable Plan





RAKI0041144T01F
 PAYU0021144T01F
 KPWT0011048T01F
 (T-ST145-0010-000M-PROP JRC7/12-3322.00m)

TAPPING FIBRE CABLE
 RAKI0041144T01F
 PAYU0021144T01F
 KPWT0011048T01F

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

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 Menara Maxis
 Kuala Lumpur City Centre
 Off Jalan Ampang 50088
 50088 Kuala Lumpur

Title:
 SLD FIBRE CABLE 48 & 144 CORE PLAN
 FOR SITE "RAKI-KTEM"
 CABLE NAME: RAKI0041144T01F
 PAYU0021144T01F
 KPWT0011048T01F

Designed by:
 DIRECT FIELD RESOURCES SDN BHD

Prepared by: DIRECT FIELD

Job No:

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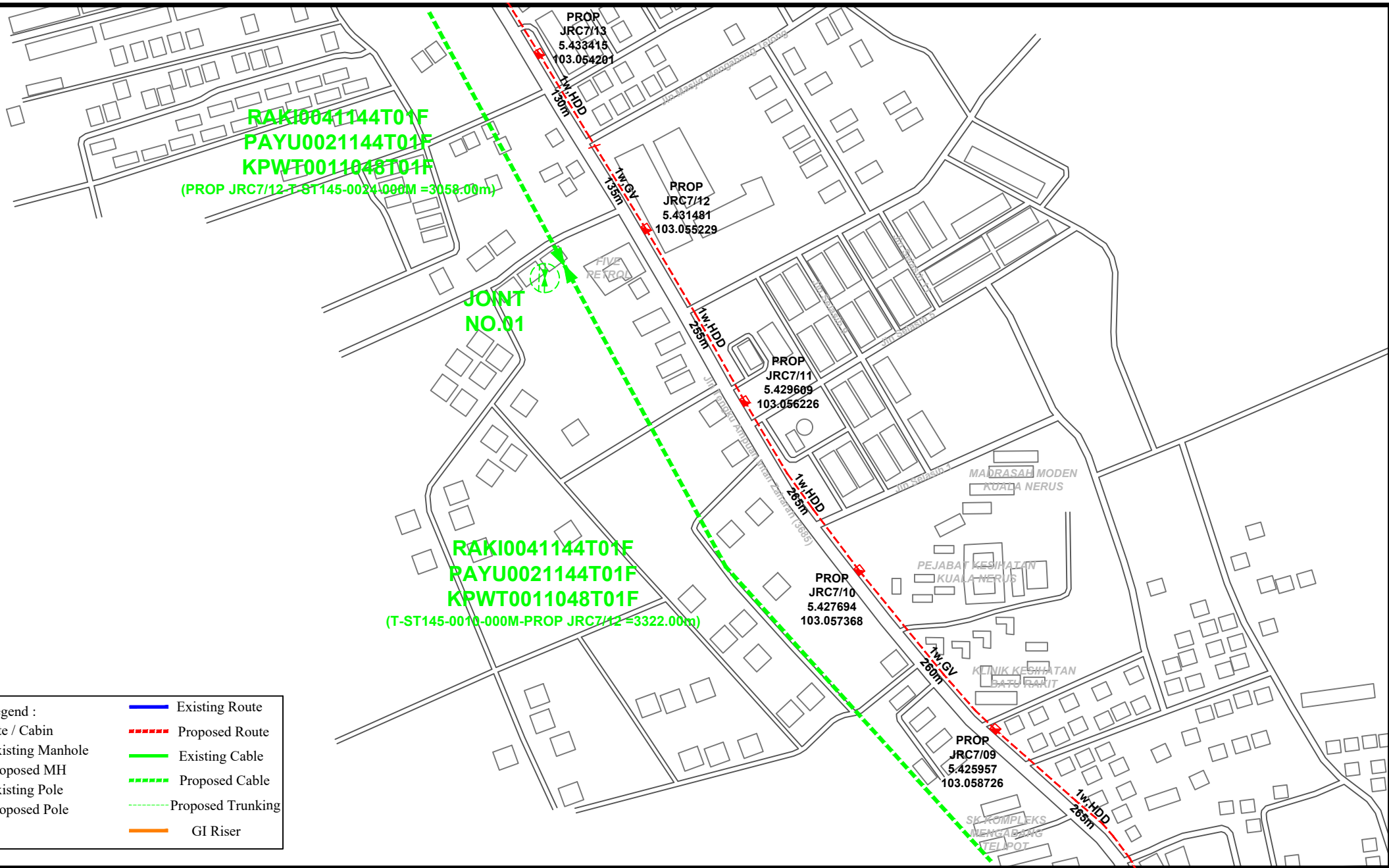
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Sheet no : 1 OF 6

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	Site / Cabin
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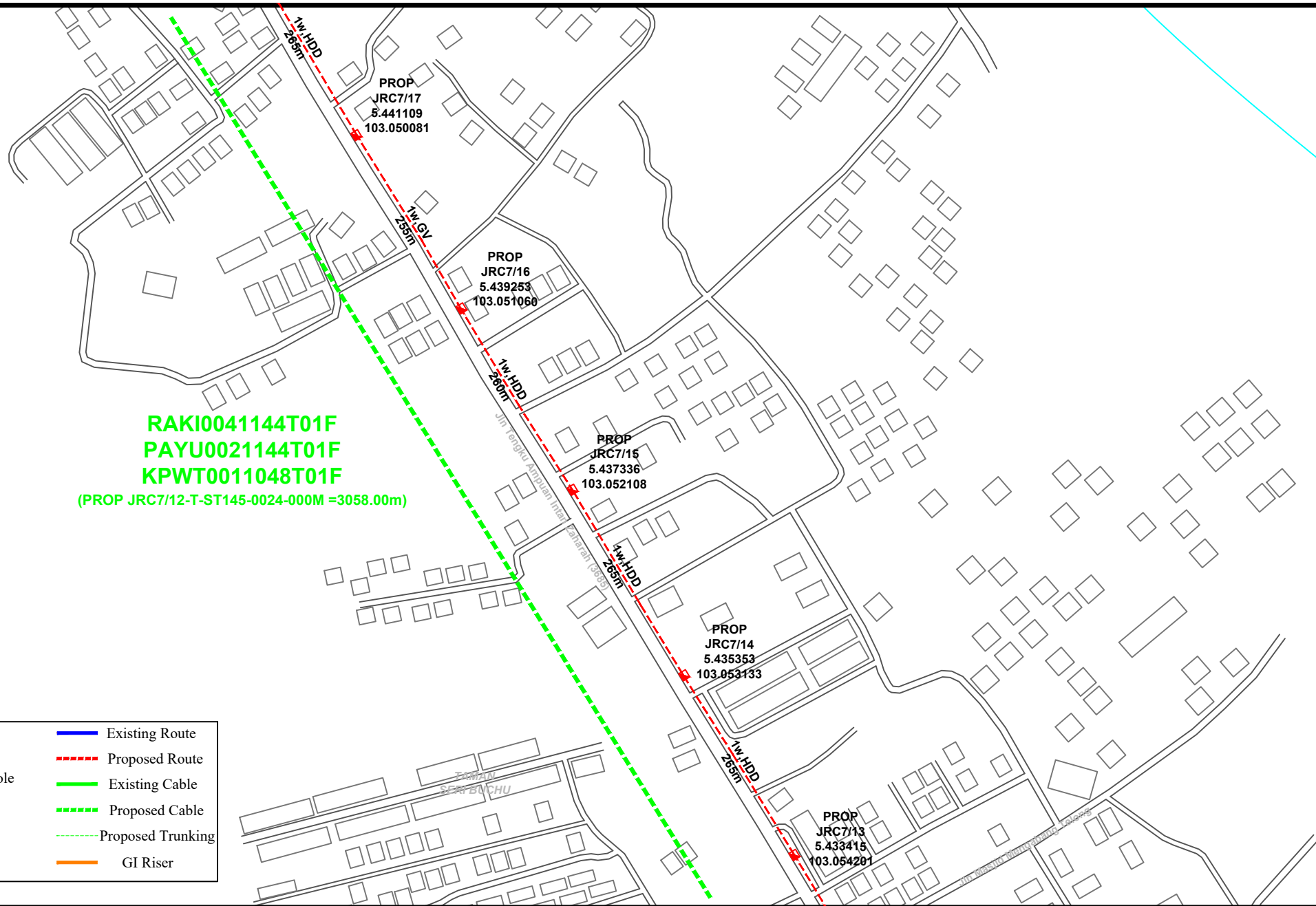
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Sheet no : 2 OF 6

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 50088 Kuala Lumpur

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 PAYU0021144T01F
 KPWT0011048T01F

Designed by:
 DIRECT FIELD RESOURCES SDN BHD

Prepared by: DIRECT FIELD

Job No:

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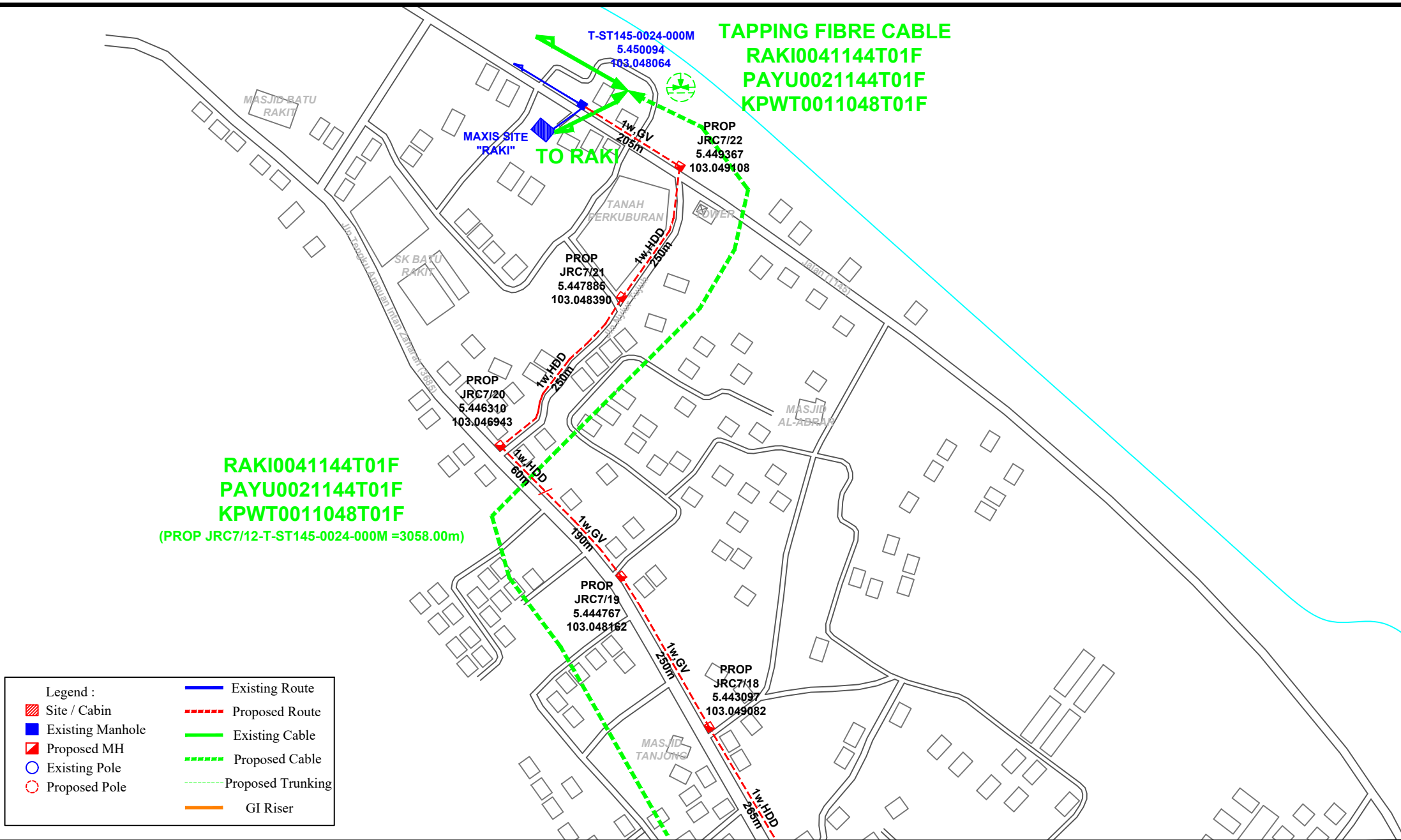
Date: 27/12/2024

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 HEIRI AZIM

Sheet no : 3 OF 6

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Legend :	
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 DIRECT FIELD RESOURCES SDN BHD

Prepared by: DIRECT FIELD

Job No:

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 HEIRI AZIM

Date: 27/12/2024

File:

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Sheet no : 4 OF 6

Rev:

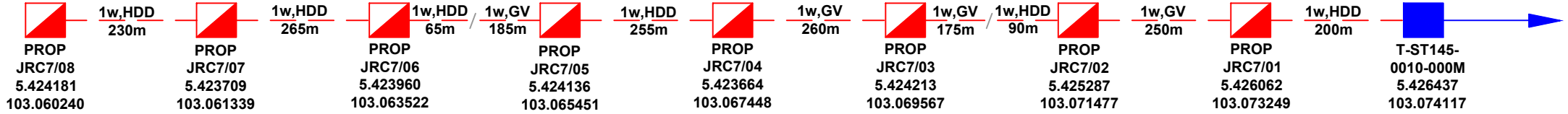
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(T-ST145-0010-000M-PROP JRC7/12 =3322.00m)

TAPPING FIBRE CABLE

RAKI0041144T01F
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KPWT0011048T01F

TO KTEM



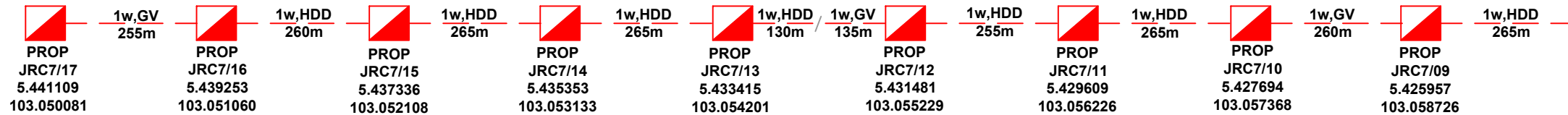
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JOINT
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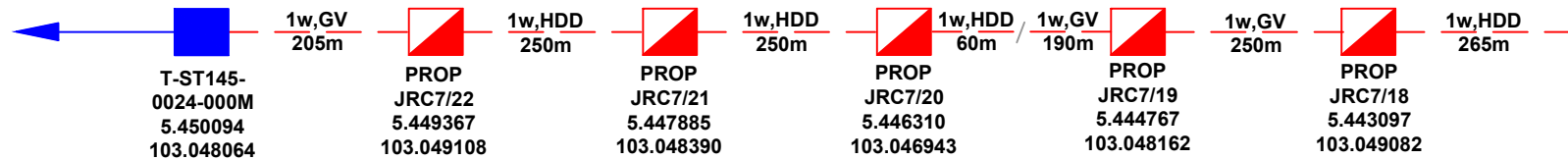
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KPWT0011048T01F

TO RAKI

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(PROP JRC7/12-T-ST145-0024-000M =3058.00m)



MAXIS BROADBAND SDN BHD

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50088 Kuala Lumpur

Title:

SLD FIBRE CABLE 48 & 144 CORE PLAN
FOR SITE "RAKI-KTEM"
CABLE NAME: RAKI0041144T01F
PAYU0021144T01F
KPWT0011048T01F

Designed by:

DIRECT FIELD RESOURCES SDN BHD

Prepared by: DIRECT FIELD

Job No:

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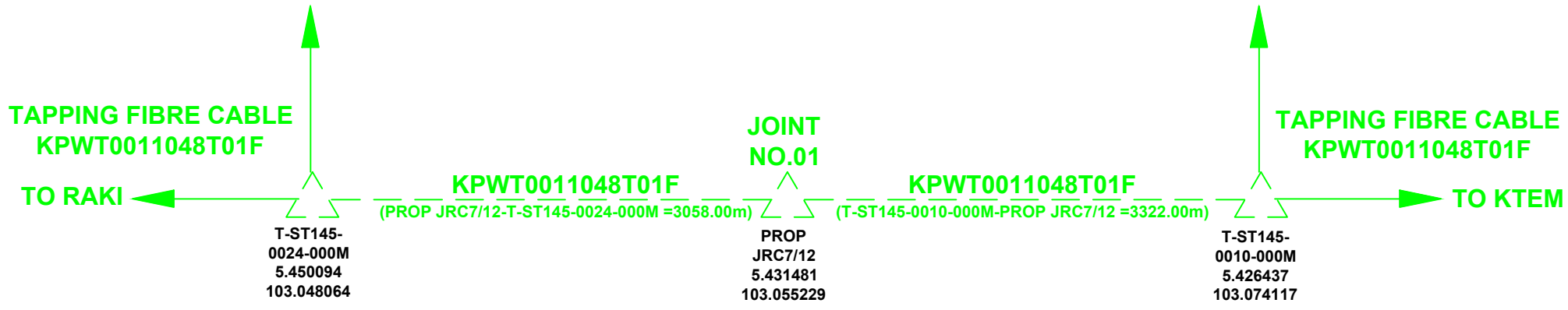
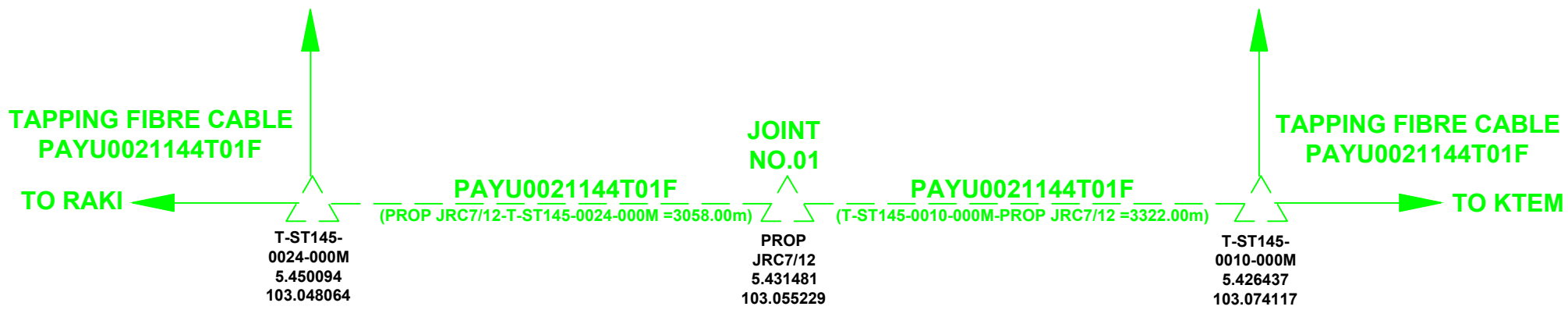
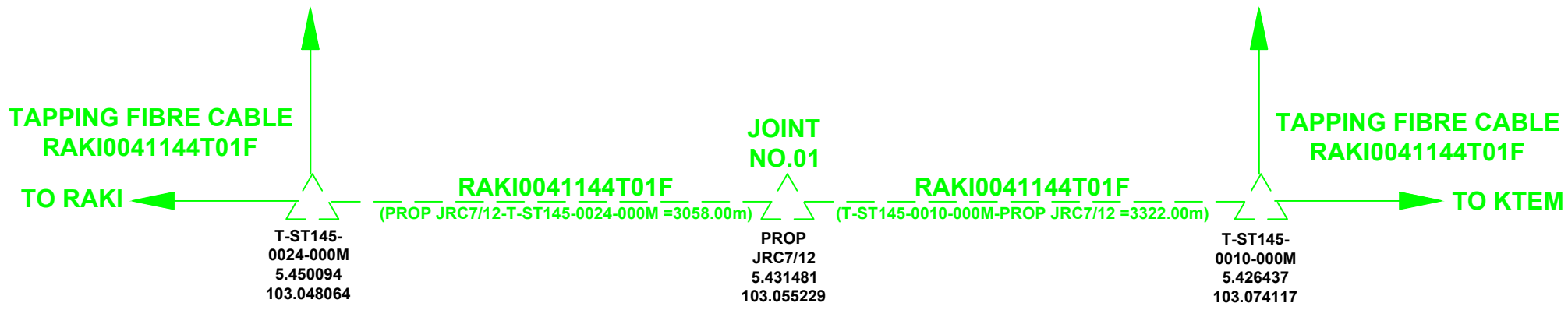
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 KPWT0011048T01F

Designed by:
 DIRECT FIELD RESOURCES SDN BHD

Prepared by: DIRECT FIELD

Job No:

Checked by:
 HEIRI AZIM

Date: 27/12/2024

File:

Approved by:
 HEIRI AZIM

Sheet no : 6 OF 6

Rev:

MAXIS BROADBAND SDN BHD.

CABLE CUTTING PLAN

PROJECT DETAIL (OSP)	:	
PROJECT NAME	:	PROPOSED NEW CABLE FIBRE 144 CORES TO SITE "RAKI-KTEM" (RAKI0041144T01F)
PROJECT TYPE	:	
TITLE	:	
PROJECT CADE	:	
CONTRACTOR	:	DIRECT FIELD RESOURCES SDN BHD
PROJECT MANAGER	:	
LOCATION	:	AT VACANT LAND, KAMPUNG TANJUNG BATU RAKIT, 21020 KUALA TERENGGANU, TERENGGANU.
QUANTITY REQUESTED	:	
REQUIRED DATE	:	

NO	SECTION		CABLE SIZE	ROUTE DISTANCE (METER)	CABLE ALLOWONES (METER)	ACTUAL CABLE LENGTH	SPLICING/TERMINATION POINT	REMARKS	
1	T-ST145-0010-000M	TO	PROP JRC7/01	144CORE	200	20.00	220.00	TAPING	T-ST145-0010-000M
2	PROP JRC7/01	TO	PROP JRC7/02	144CORE	250	25.00	275.00		
3	PROP JRC7/02	TO	PROP JRC7/03	144CORE	265	26.50	291.50		
4	PROP JRC7/03	TO	PROP JRC7/04	144CORE	260	26.00	286.00		
5	PROP JRC7/04	TO	PROP JRC7/05	144CORE	255	25.50	280.50		
6	PROP JRC7/05	TO	PROP JRC7/06	144CORE	250	25.00	275.00		
7	PROP JRC7/06	TO	PROP JRC7/07	144CORE	265	26.50	291.50		
8	PROP JRC7/07	TO	PROP JRC7/08	144CORE	230	23.00	253.00		
9	PROP JRC7/08	TO	PROP JRC7/09	144CORE	265	26.50	291.50		
10	PROP JRC7/09	TO	PROP JRC7/10	144CORE	260	26.00	286.00		
11	PROP JRC7/10	TO	PROP JRC7/11	144CORE	265	26.50	291.50		
12	PROP JRC7/11	TO	PROP JRC7/12	144CORE	255	25.50	280.50	JOINT NO.01	3,322.00
13	PROP JRC7/12	TO	PROP JRC7/13	144CORE	265	26.50	291.50		
14	PROP JRC7/13	TO	PROP JRC7/14	144CORE	265	26.50	291.50		
15	PROP JRC7/14	TO	PROP JRC7/15	144CORE	265	26.50	291.50		
16	PROP JRC7/15	TO	PROP JRC7/16	144CORE	260	26.00	286.00		
17	PROP JRC7/16	TO	PROP JRC7/17	144CORE	255	25.50	280.50		
18	PROP JRC7/17	TO	PROP JRC7/18	144CORE	265	26.50	291.50		
19	PROP JRC7/18	TO	PROP JRC7/19	144CORE	250	25.00	275.00		
20	PROP JRC7/19	TO	PROP JRC7/20	144CORE	250	25.00	275.00		
21	PROP JRC7/20	TO	PROP JRC7/21	144CORE	250	25.00	275.00		
22	PROP JRC7/21	TO	PROP JRC7/22	144CORE	250	25.00	275.00		3,058.00
23	PROP JRC7/22	TO	T-ST145-0024-000M	144CORE	205	20.50	225.50	TERMINATION	T-ST145-0024-000M
					5,800.00		6,380.00		6,380.00

MAXIS BROADBAND SDN BHD.

CABLE CUTTING PLAN

PROJECT DETAIL (OSP)	:	
PROJECT NAME	:	PROPOSED NEW CABLE FIBRE 144 CORES TO SITE "RAKI-KTEM" (PAYU0021144T01F)
PROJECT TYPE	:	
TITLE	:	
PROJECT CADE	:	
CONTRACTOR	:	DIRECT FIELD RESOURCES SDN BHD
PROJECT MANAGER	:	
LOCATION	:	AT VACANT LAND, KAMPUNG TANJUNG BATU RAKIT, 21020 KUALA TERENGGANU, TERENGGANU.
QUANTITY REQUESTED	:	
REQUIRED DATE	:	

NO	SECTION		CABLE SIZE	ROUTE DISTANCE (METER)	CABLE ALLOWONES (METER)	ACTUAL CABLE LENGTH	SPLICING/TERMINATION POINT	REMARKS	
1	T-ST145-0010-000M	TO	PROP JRC7/01	144CORE	200	20.00	220.00	TAPING	T-ST145-0010-000M
2	PROP JRC7/01	TO	PROP JRC7/02	144CORE	250	25.00	275.00		
3	PROP JRC7/02	TO	PROP JRC7/03	144CORE	265	26.50	291.50		
4	PROP JRC7/03	TO	PROP JRC7/04	144CORE	260	26.00	286.00		
5	PROP JRC7/04	TO	PROP JRC7/05	144CORE	255	25.50	280.50		
6	PROP JRC7/05	TO	PROP JRC7/06	144CORE	250	25.00	275.00		
7	PROP JRC7/06	TO	PROP JRC7/07	144CORE	265	26.50	291.50		
8	PROP JRC7/07	TO	PROP JRC7/08	144CORE	230	23.00	253.00		
9	PROP JRC7/08	TO	PROP JRC7/09	144CORE	265	26.50	291.50		
10	PROP JRC7/09	TO	PROP JRC7/10	144CORE	260	26.00	286.00		
11	PROP JRC7/10	TO	PROP JRC7/11	144CORE	265	26.50	291.50		
12	PROP JRC7/11	TO	PROP JRC7/12	144CORE	255	25.50	280.50	JOINT NO.01	3,322.00
13	PROP JRC7/12	TO	PROP JRC7/13	144CORE	265	26.50	291.50		
14	PROP JRC7/13	TO	PROP JRC7/14	144CORE	265	26.50	291.50		
15	PROP JRC7/14	TO	PROP JRC7/15	144CORE	265	26.50	291.50		
16	PROP JRC7/15	TO	PROP JRC7/16	144CORE	260	26.00	286.00		
17	PROP JRC7/16	TO	PROP JRC7/17	144CORE	255	25.50	280.50		
18	PROP JRC7/17	TO	PROP JRC7/18	144CORE	265	26.50	291.50		
19	PROP JRC7/18	TO	PROP JRC7/19	144CORE	250	25.00	275.00		
20	PROP JRC7/19	TO	PROP JRC7/20	144CORE	250	25.00	275.00		
21	PROP JRC7/20	TO	PROP JRC7/21	144CORE	250	25.00	275.00		
22	PROP JRC7/21	TO	PROP JRC7/22	144CORE	250	25.00	275.00		3,058.00
23	PROP JRC7/22	TO	T-ST145-0024-000M	144CORE	205	20.50	225.50	TERMINATION	T-ST145-0024-000M
					5,800.00		6,380.00		6,380.00

MAXIS BROADBAND SDN BHD.

CABLE CUTTING PLAN

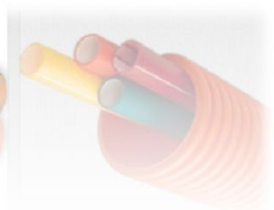
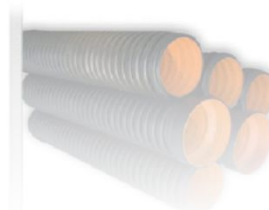
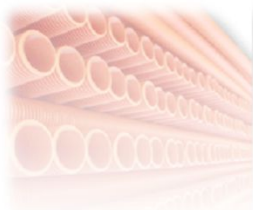
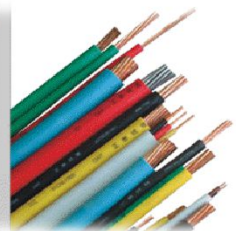
PROJECT DETAIL (OSP)	:	
PROJECT NAME	:	PROPOSED NEW CABLE FIBRE 48 CORES TO SITE "RAKI-KTEM" (KPWT0011048T01F)
PROJECT TYPE	:	
TITLE	:	
PROJECT CADE	:	
CONTRACTOR	:	DIRECT FIELD RESOURCES SDN BHD
PROJECT MANAGER	:	
LOCATION	:	AT VACANT LAND, KAMPUNG TANJUNG BATU RAKIT, 21020 KUALA TERENGGANU, TERENGGANU.
QUANTITY REQUESTED	:	
REQUIRED DATE	:	

NO	SECTION			CABLE SIZE	ROUTE DISTANCE (METER)	CABLE ALLOWONES (METER)	ACTUAL CABLE LENGTH	SPLICING/TERMINATION POINT	REMARKS
1	T-ST145-0010-000M	TO	PROP JRC7/01	48CORE	200	20.00	220.00	TAPING	T-ST145-0010-000M
2	PROP JRC7/01	TO	PROP JRC7/02	48CORE	250	25.00	275.00		
3	PROP JRC7/02	TO	PROP JRC7/03	48CORE	265	26.50	291.50		
4	PROP JRC7/03	TO	PROP JRC7/04	48CORE	260	26.00	286.00		
5	PROP JRC7/04	TO	PROP JRC7/05	48CORE	255	25.50	280.50		
6	PROP JRC7/05	TO	PROP JRC7/06	48CORE	250	25.00	275.00		
7	PROP JRC7/06	TO	PROP JRC7/07	48CORE	265	26.50	291.50		
8	PROP JRC7/07	TO	PROP JRC7/08	48CORE	230	23.00	253.00		
9	PROP JRC7/08	TO	PROP JRC7/09	48CORE	265	26.50	291.50		
10	PROP JRC7/09	TO	PROP JRC7/10	48CORE	260	26.00	286.00		
11	PROP JRC7/10	TO	PROP JRC7/11	48CORE	265	26.50	291.50		
12	PROP JRC7/11	TO	PROP JRC7/12	48CORE	255	25.50	280.50	JOINT NO.01	3,322.00
13	PROP JRC7/12	TO	PROP JRC7/13	48CORE	265	26.50	291.50		
14	PROP JRC7/13	TO	PROP JRC7/14	48CORE	265	26.50	291.50		
15	PROP JRC7/14	TO	PROP JRC7/15	48CORE	265	26.50	291.50		
16	PROP JRC7/15	TO	PROP JRC7/16	48CORE	260	26.00	286.00		
17	PROP JRC7/16	TO	PROP JRC7/17	48CORE	255	25.50	280.50		
18	PROP JRC7/17	TO	PROP JRC7/18	48CORE	265	26.50	291.50		
19	PROP JRC7/18	TO	PROP JRC7/19	48CORE	250	25.00	275.00		
20	PROP JRC7/19	TO	PROP JRC7/20	48CORE	250	25.00	275.00		
21	PROP JRC7/20	TO	PROP JRC7/21	48CORE	250	25.00	275.00		
22	PROP JRC7/21	TO	PROP JRC7/22	48CORE	250	25.00	275.00		3,058.00
23	PROP JRC7/22	TO	T-ST145-0024-000M	48CORE	205	20.50	225.50	TERMINATION	T-ST145-0024-000M
					5,800.00		6,380.00		6,380.00



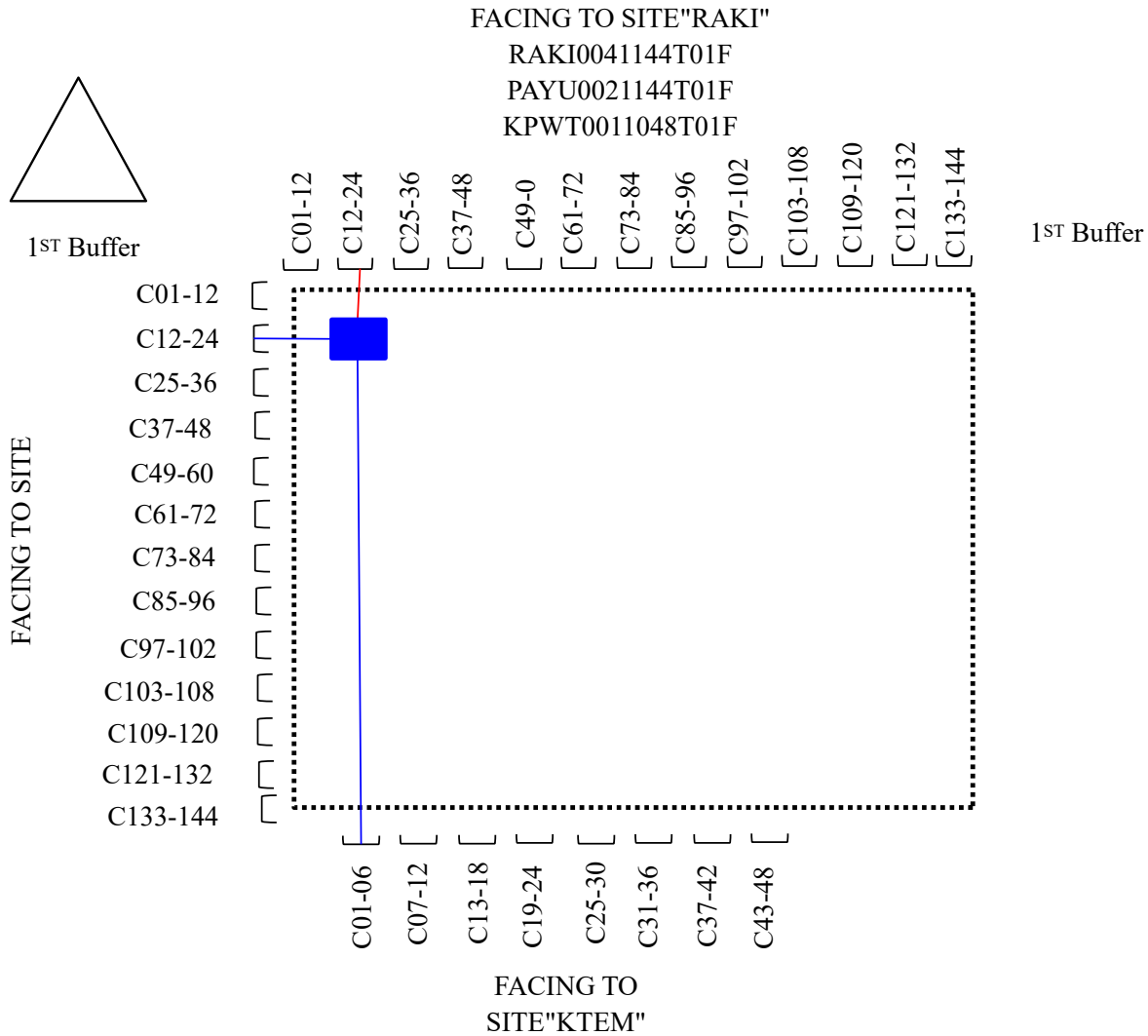
Section 7

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



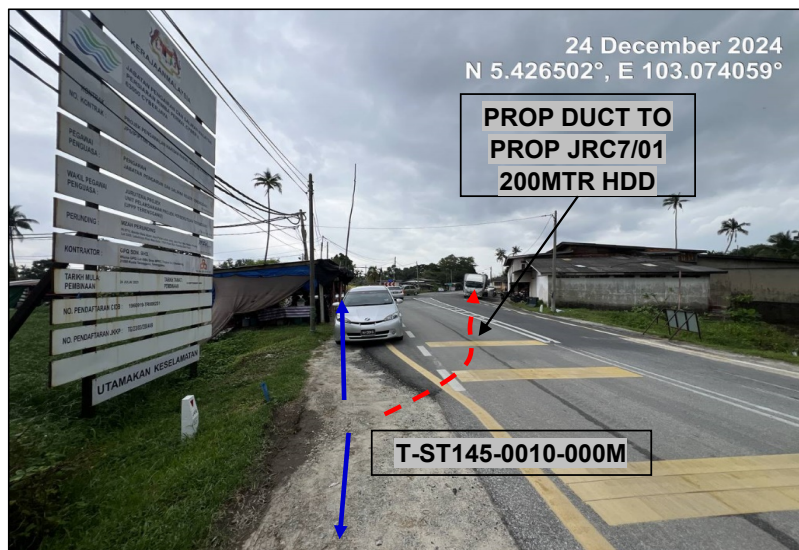


Section 8: Outside Plant Site Snapshot

Photo 1

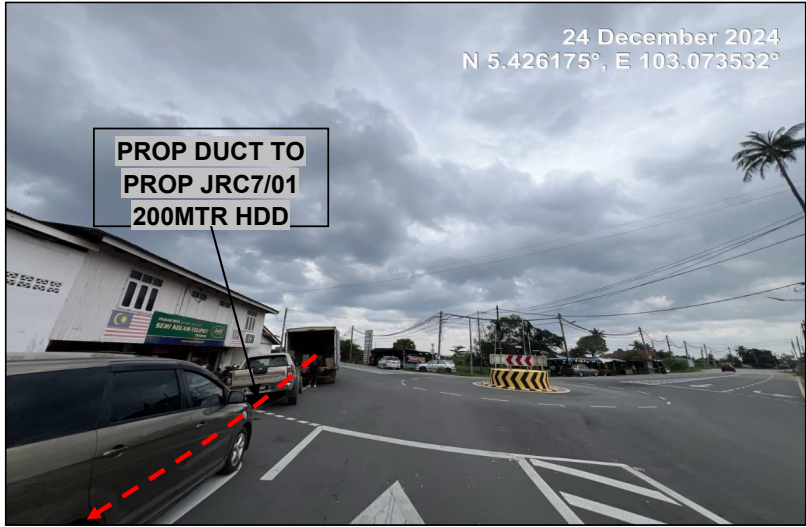


LOCATION AT JALAN (T145)

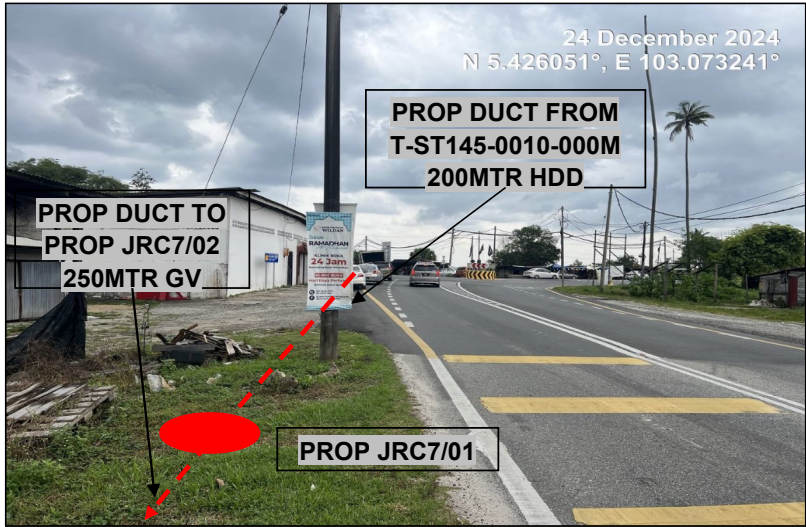


LOCATION AT JALAN (T145)

Photo 2

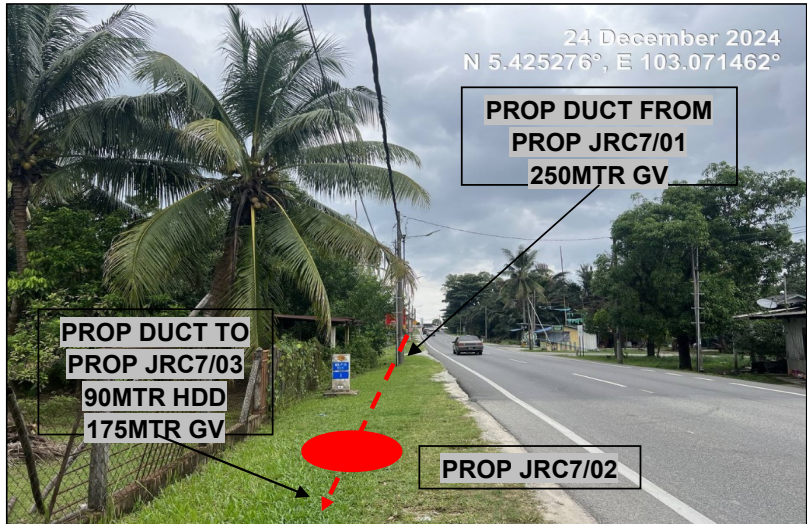


**LOCATION AT JALAN KG PADANG MARAS-
KG TELIPOT (T148)**

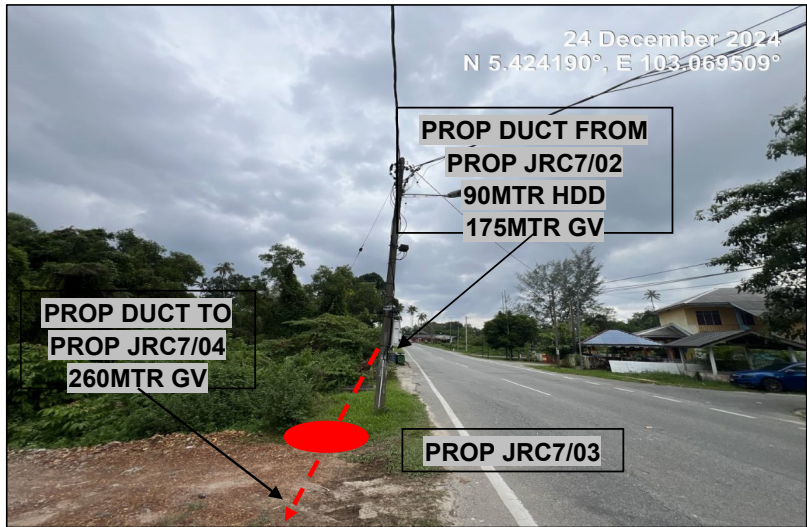


**LOCATION AT JALAN KG PADANG MARAS-
KG TELIPOT (T148)**

Photo 3



**LOCATION AT JALAN KG PADANG MARAS-
KG TELIPOT (T148)**

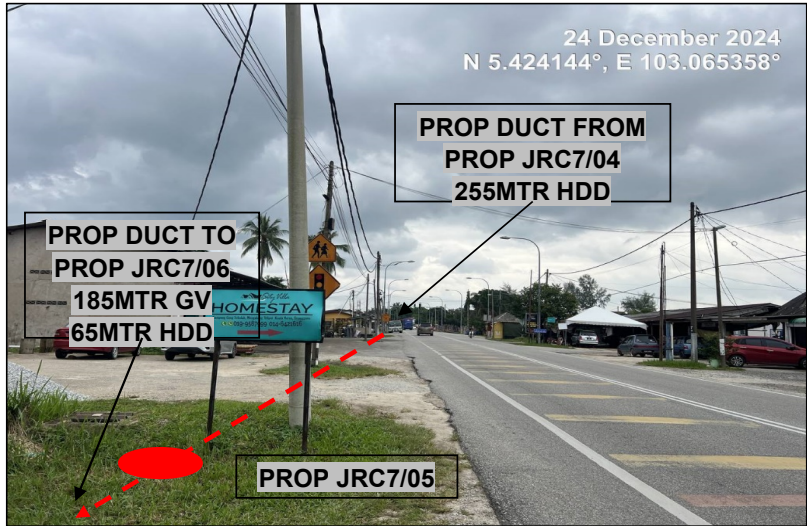


**LOCATION AT JALAN KG PADANG MARAS-
KG TELIPOT (T148)**

Photo 4

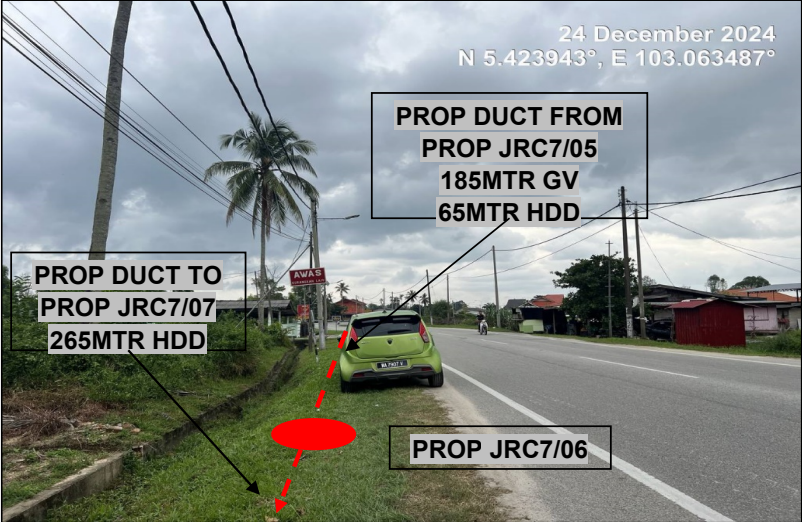


**LOCATION AT JALAN KG PADANG MARAS-
KG TELIPOT (T148)**

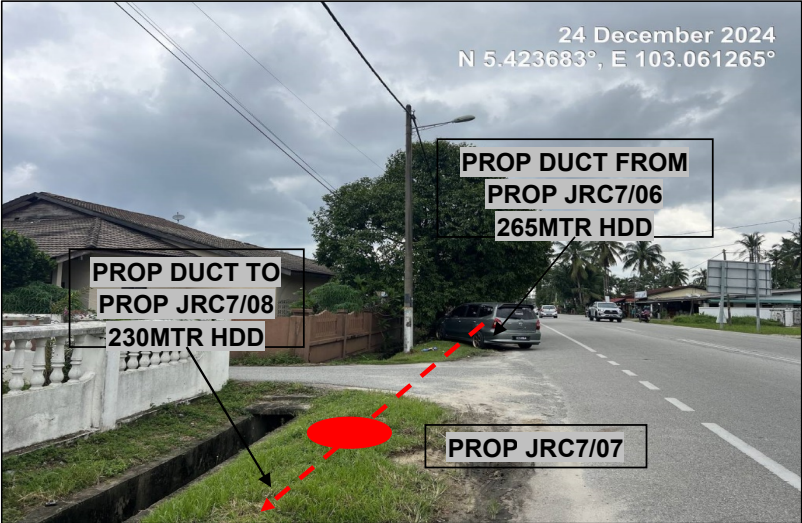


**LOCATION AT JALAN KG PADANG MARAS-
KG TELIPOT (T148)**

Photo 5



**LOCATION AT JALAN KG PADANG MARAS-
KG TELIPOT (T148)**

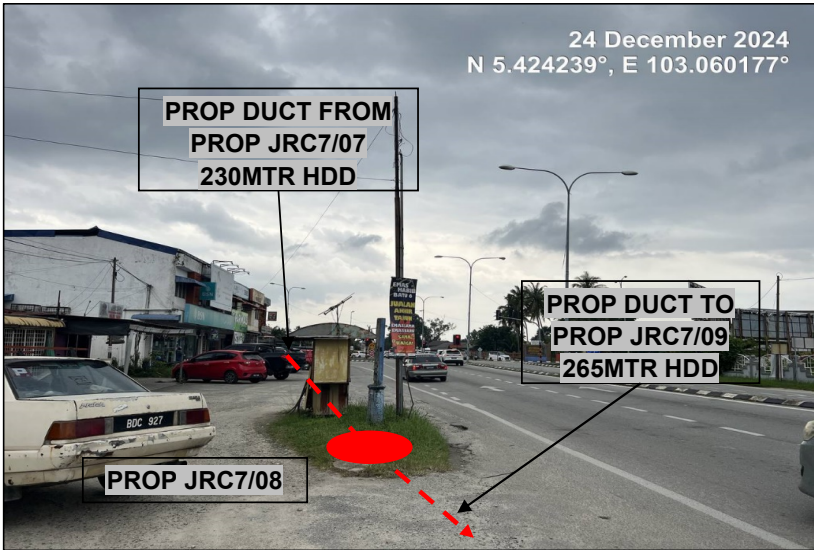


**LOCATION AT JALAN KG PADANG MARAS-
KG TELIPOT (T148)**

Photo 8



**LOCATION AT JALAN TENGGU AMPUAN
INTAN ZAHARAH (3685)**



**LOCATION AT JALAN TENGGU AMPUAN
INTAN ZAHARAH (3685)**

Photo 7



**LOCATION AT JALAN TENGGU AMPUAN
INTAN ZAHARAH (3685)**

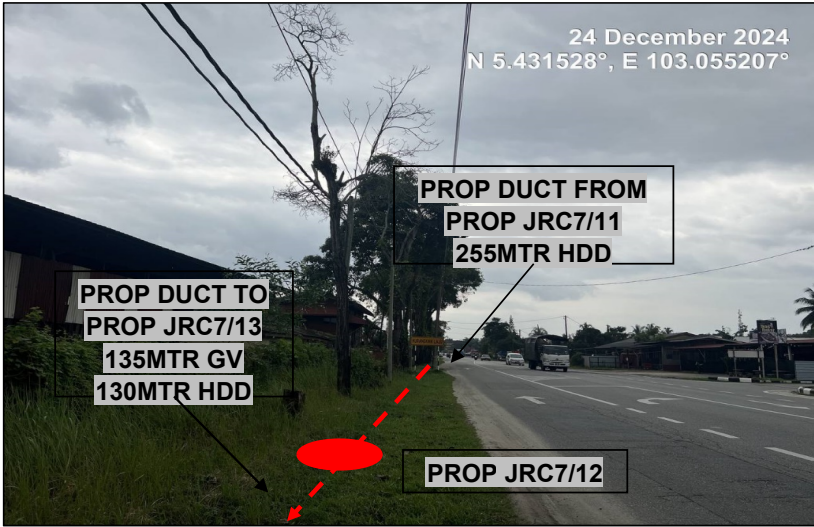


**LOCATION AT JALAN TENGGU AMPUAN
INTAN ZAHARAH (3685)**

Photo 8



**LOCATION AT JALAN TENGGU AMPUAN
INTAN ZAHARAH (3685)**



**LOCATION AT JALAN TENGGU AMPUAN
INTAN ZAHARAH (3685)**

Photo 9

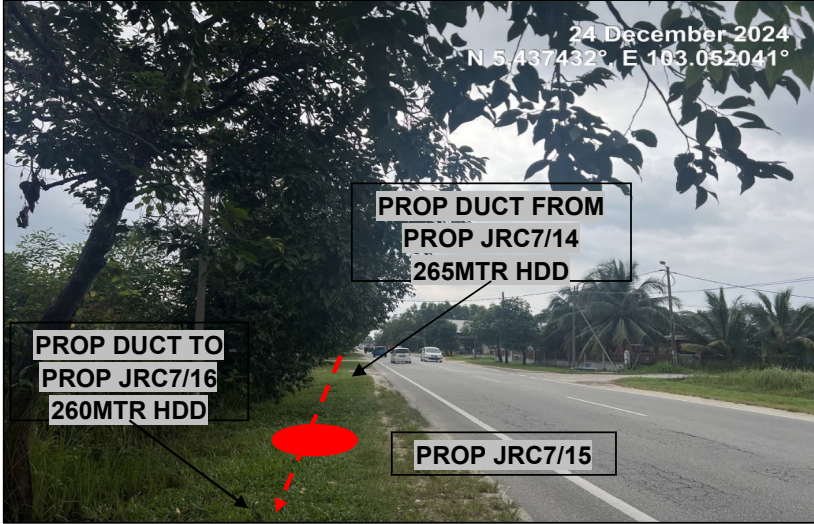


**LOCATION AT JALAN KG PADANG MARAS-
KG TELIPOT (T148)**

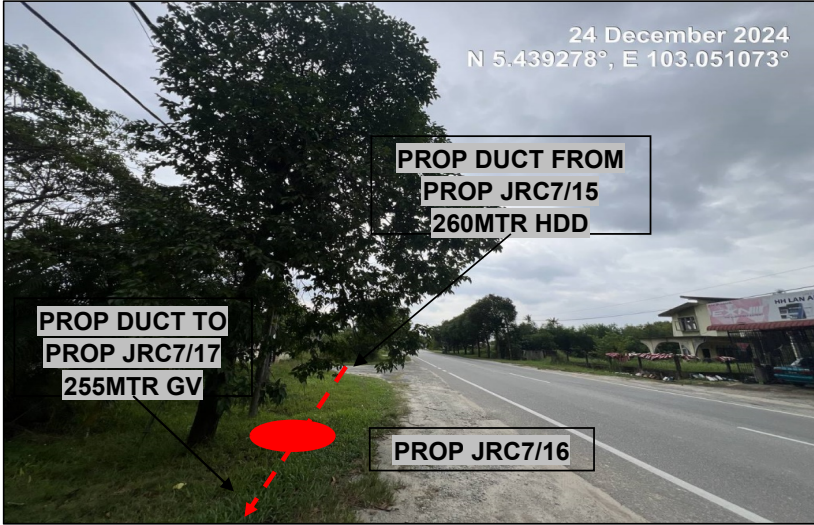


**LOCATION AT JALAN KG PADANG MARAS-
KG TELIPOT (T148)**

Photo 10

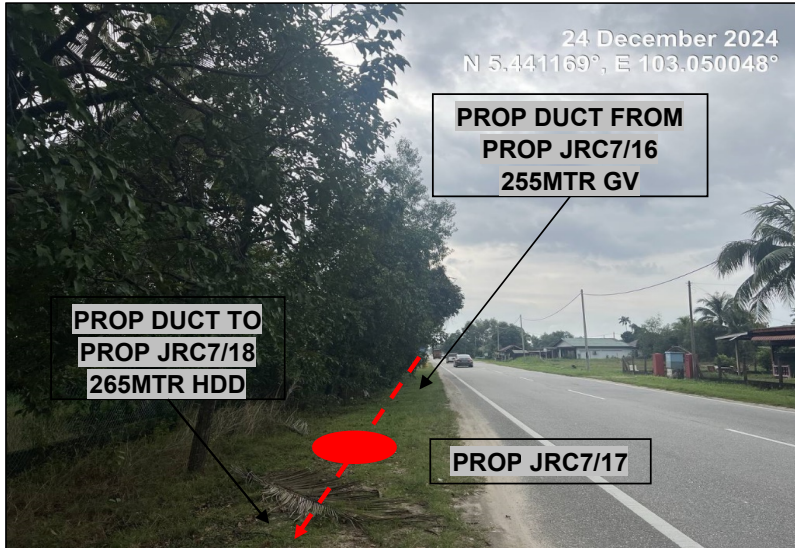


**LOCATION AT JALAN TENGGU AMPUAN
INTAN ZAHARAH (3685)**



**LOCATION AT JALAN TENGGU AMPUAN
INTAN ZAHARAH (3685)**

Photo 11

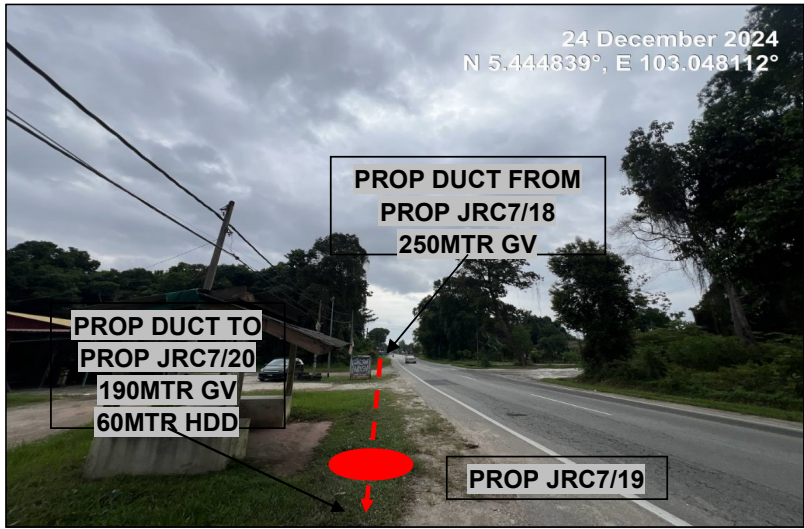


**LOCATION AT JALAN TENGGU AMPUAN
INTAN ZAHARAH (3685)**

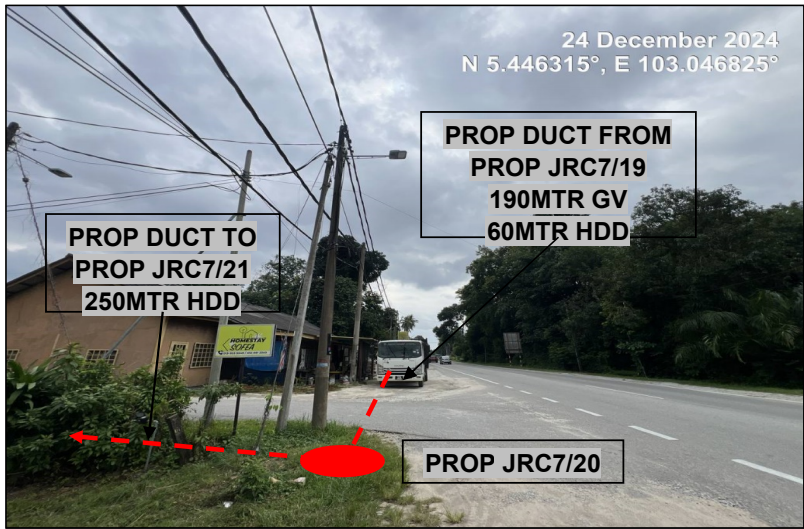


**LOCATION AT JALAN TENGGU AMPUAN
INTAN ZAHARAH (3685)**

Photo 12



**LOCATION AT JALAN TENGGU AMPUAN
INTAN ZAHARAH (3685)**



**LOCATION AT JALAN TENGGU AMPUAN
INTAN ZAHARAH (3685)**

Photo 13

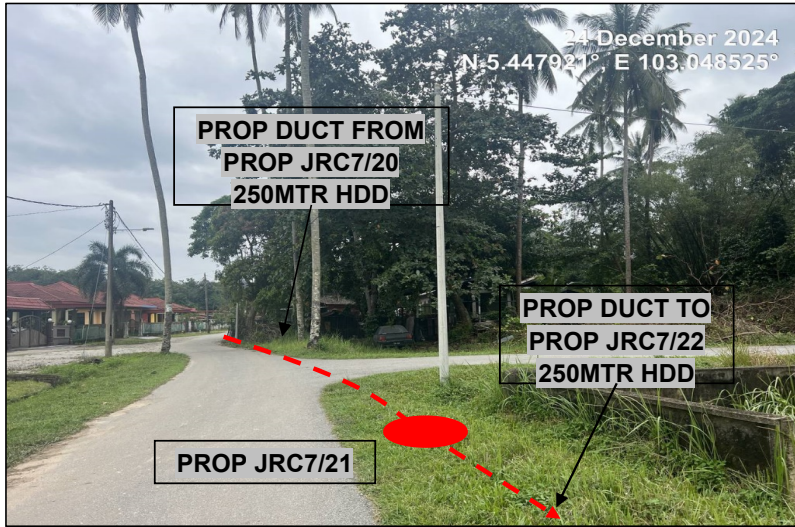


LOCATION AT JALAN NYIUR TUJUH



LOCATION AT JALAN NYIUR TUJUH

Photo 14



LOCATION AT JALAN NYIUR TUJUH

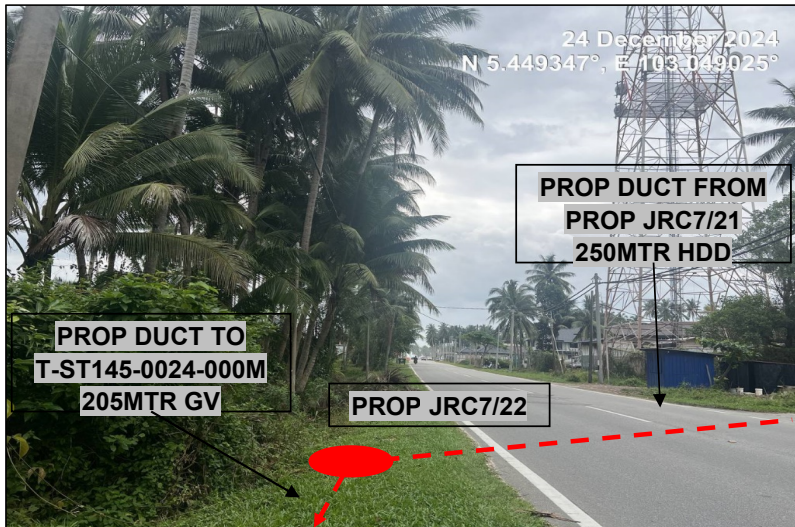


LOCATION AT JALAN NYIUR TUJUH

Photo 15



LOCATION AT JALAN (T145)

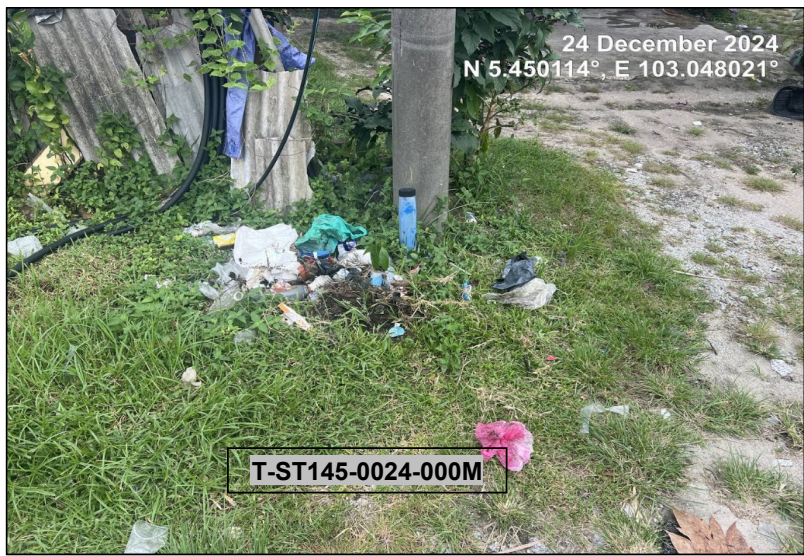


LOCATION AT JALAN (T145)

Photo 16



LOCATION AT JALAN (T145)



LOCATION AT JALAN (T145)