
	Contractor	SAL Network Design Sdn Bhd		
	SOW Ref	B12 - OSP Construction & Commisioning		
	LRD	STUN-PCTY		
	Subject	Fiber Technical Proposal		



Region	<b>Northern</b>		
KV/OKV	<b>OKV</b>		
Point A	<b>STUN</b>	Point B	<b>PCTY</b>
Address	<b>AT VACANT LAND, 35900 TANJONG MALIM, PERAK.</b>		
Site A Lat Long	<b>3.749592, 101.500871</b>		
Site B Lat Long	<b>3.741988, 101.509992</b>		
Structure Owner			

## **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"STUN-PCTY"  
AT VACANT LAND, 35900 TANJONG MALIM,  
PERAK.**

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.

### **SAL NETWORK DESIGN SDN.BHD.**

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

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

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

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

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

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

### **Maxis OSP Detail Design**

Name: M Nazim Mahmud

Designation: Transport Network Engineer

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

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

## Section 2: Outside Plant Civil Infra Design Summary

Overall proposed OSP Civil Infrastructure Design Distance	2881	meter
a. Horizontal directional drilling	2865	meter
b. Carriage way open cut trenching	10	meter
c. Grass verge open cut trenching	0	meter
d. Micro-trenching (mT)	0	meter
e. Maxis Pole	0	meter
f. Cable trunking	0	meter
g. GI Pipes Crossing/Riser	6	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	3169.1	meter
No. of proposed manhole	12	pc
Area of miling work required	0	meter

Local council & authority approval requirement	2881	meter
a. JKR TANJONG MALIM	2415	meter
b. LAND OWNER	466	meter
c.		meter

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

Type of building:	TOWER
Address:	AT VACANT LAND, 35900 TANJONG MALIM, PERAK.
Contact person:	
Contact no.:	

**Existing Infrastructure Information**

Preceding duct/sub-duct space	TAPPING EXIST MAXIS MH B-LPC10-0004-000M at JALAN PC10
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>4</b>	<b>14</b>

Implementation

Method	Distance (m)	CW (Days)
Underground	2875	70
Pole	0	0
<b>Total</b>	<b>2875</b>	<b>70</b>

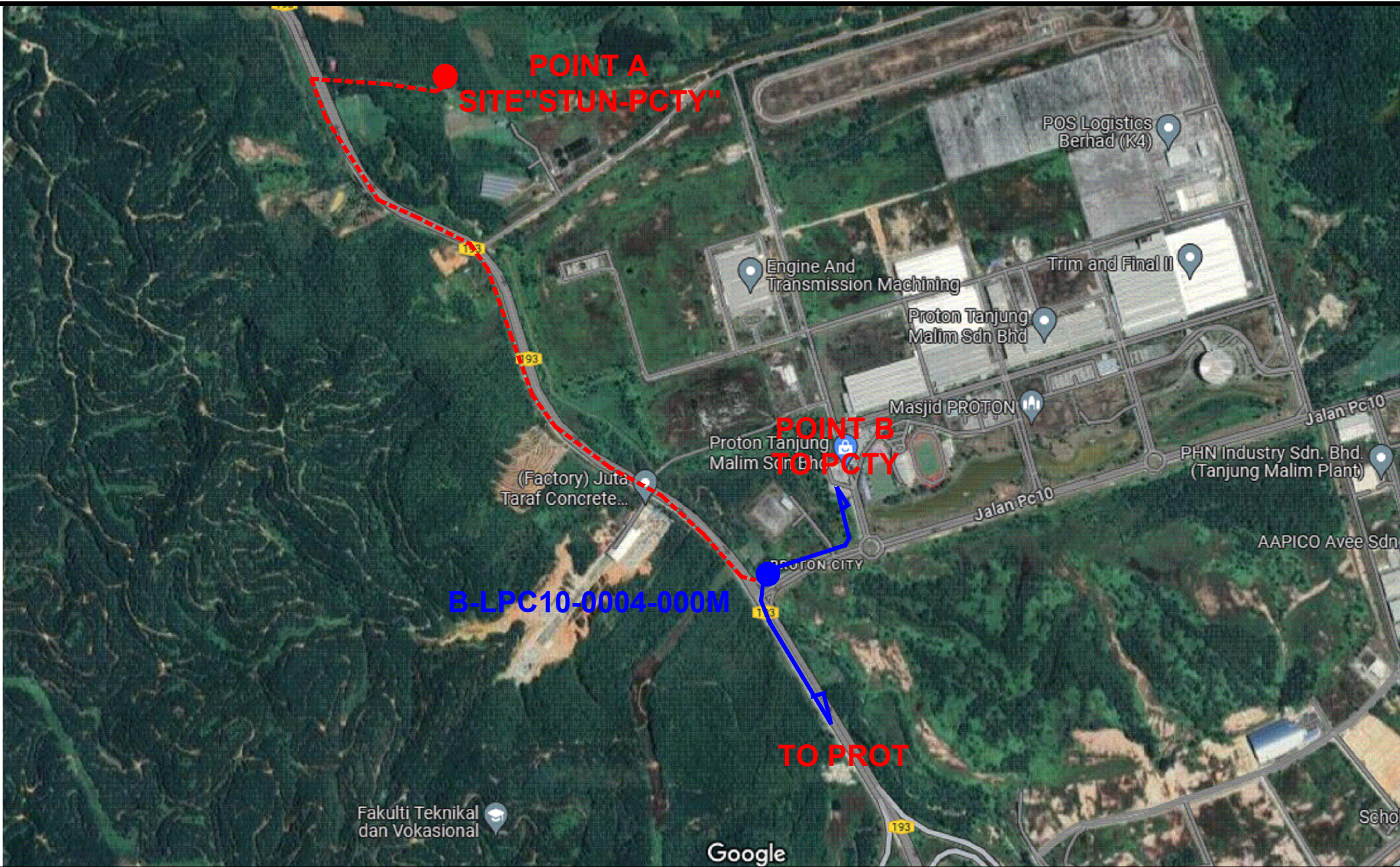
Date TP Submission

Date CW Completed

## Section 3

### Vicidnity Map





**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 "STUN-PCTY"  
 AT VACANT LAND,  
 35900 TANJONG MALIM,  
 PERAK.

**Designed by:**

SAL NETWORK DESIGN SDN BHD

**Prepared by:** SAL NETWORK

**Job No:**

**Checked by:**

NAZIM MAHMUD

**Date:** 16/02/2024

**File:**

**Approved by:**

NAZIM MAHMUD

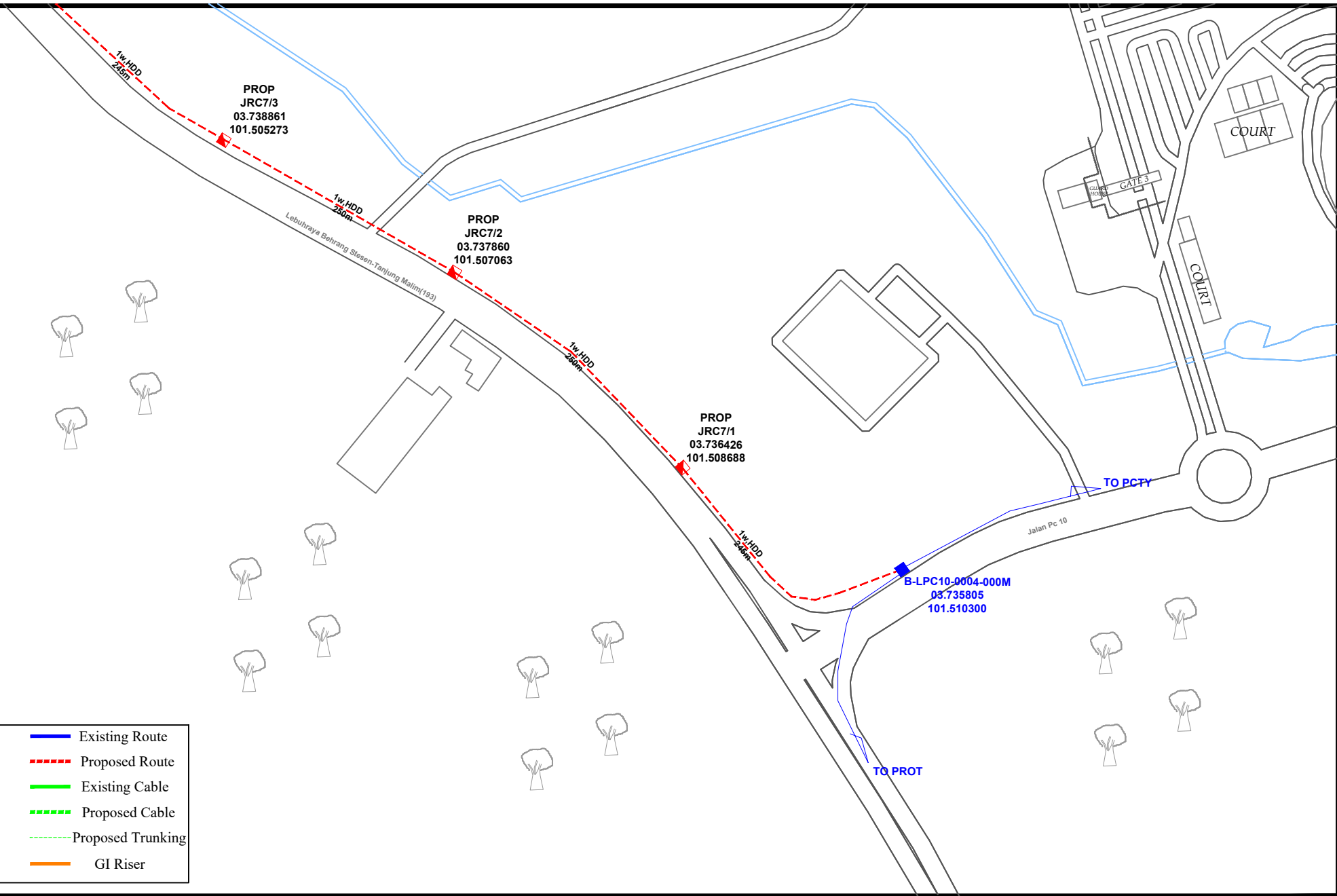
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**Rev:**

## Section 4

# Civil Infrastructure Route Plan & Permit





Legend :	Existing Route
Site / Cabin	Proposed Route
Existing Manhole	Existing Cable
Proposed MH	Proposed Cable
Existing Pole	Proposed Trunking
Proposed Pole	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 "STUN-PCTY"  
 AT VACANT LAND,  
 35900 TANJONG MALIN,  
 PERAK.

**Designed by:**  
 SAL NETWORK DESIGN SDN BHD

**Prepared by:** SAL NETWORK

**Job No:**

**Checked by:**  
 NAZIM MAHMUD

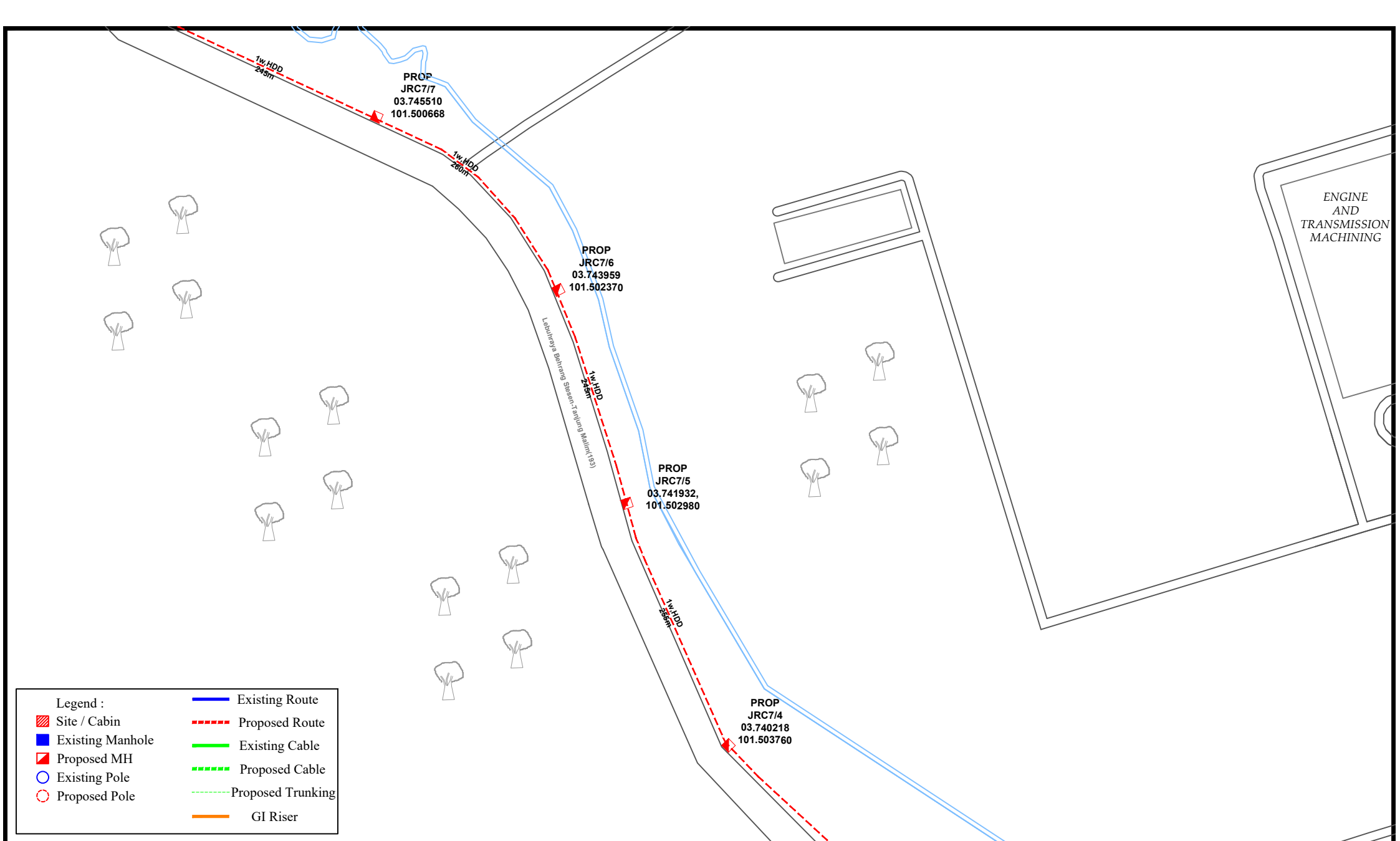
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**File:**

**Approved by:**  
 NAZIM MAHMUD

**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

**MAXIS BROADBAND SDN BHD**  
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 Menara Maxis  
 Kuala Lumpur City Centre  
 Off Jalan Ampang 50088  
 50088 Kuala Lumpur

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 35900 TANJONG MALIM,  
 PERAK.

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**Date:** 16/02/2024

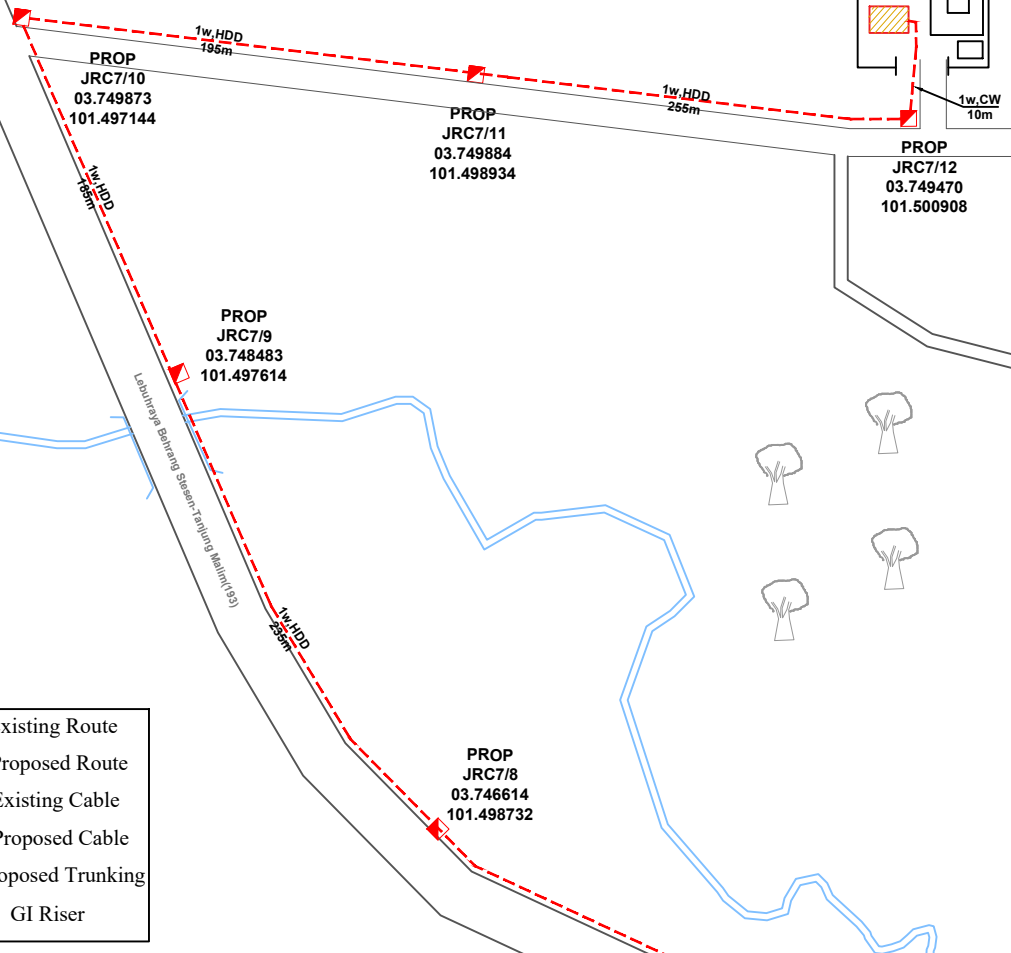
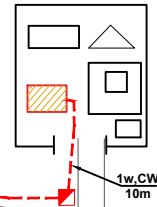
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**Approved by:**  
 NAZIM MAHMUD

**Sheet no :** 3 OF 5

**Rev:**

## MAXIS SITE "STUN-PCTY"



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:**  
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 AT VACANT LAND,  
 35900 TANJONG MALIM,  
 PERAK.

**Designed by:**  
 SAL NETWORK DESIGN SDN BHD

**Prepared by:** SAL NETWORK

**Job No:**

**Checked by:**  
 NAZIM MAHMUD

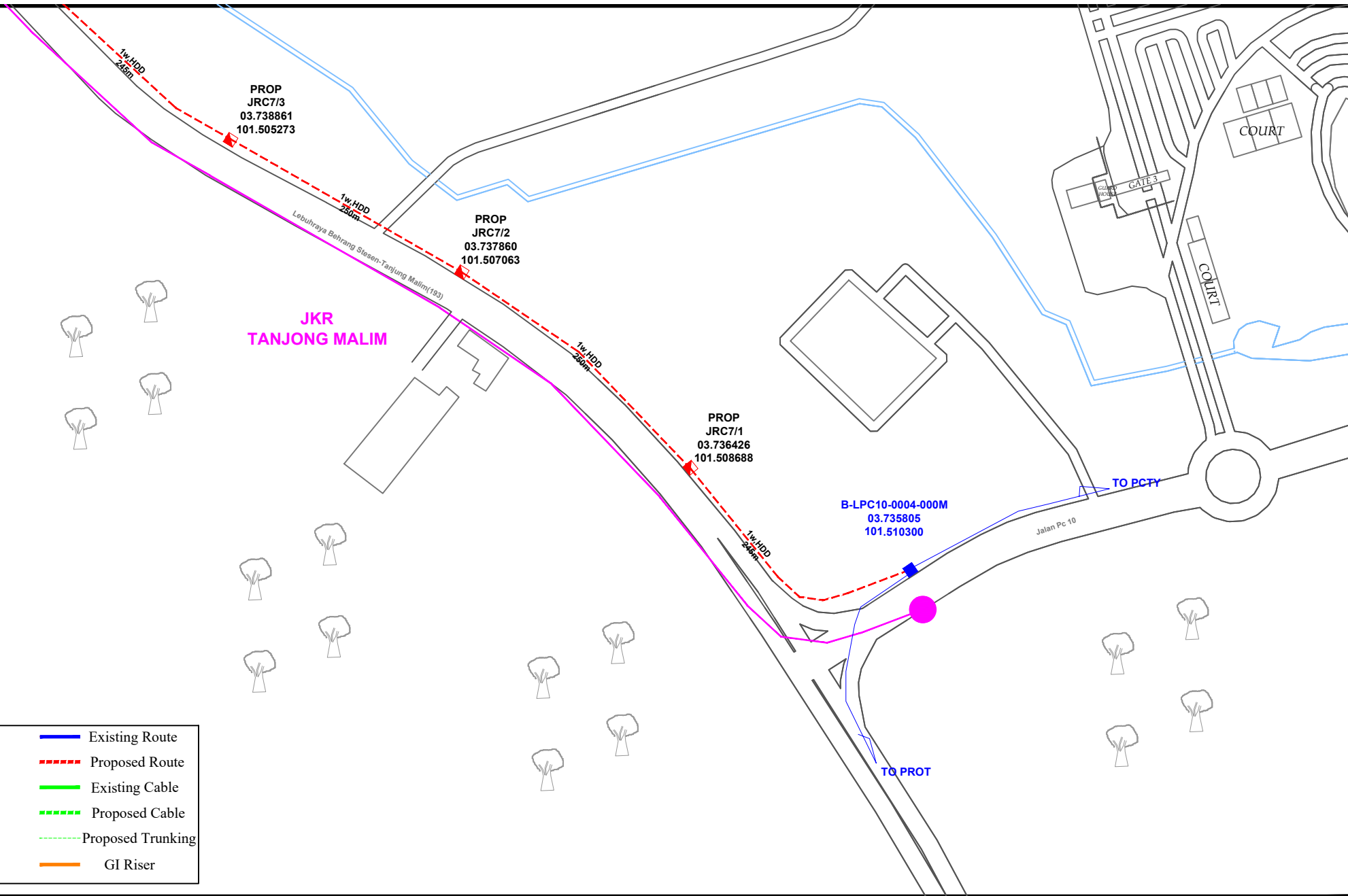
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**Approved by:**  
 NAZIM MAHMUD

**Sheet no :** 4 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



**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 "STUN-PCTY"  
 AT VACANT LAND,  
 35900 TANJONG MALIM,  
 PERAK.

**Designed by:**  
 SAL NETWORK DESIGN SDN BHD

**Prepared by:** SAL NETWORK

**Job No:**

**Checked by:**  
 NAZIM MAHMUD

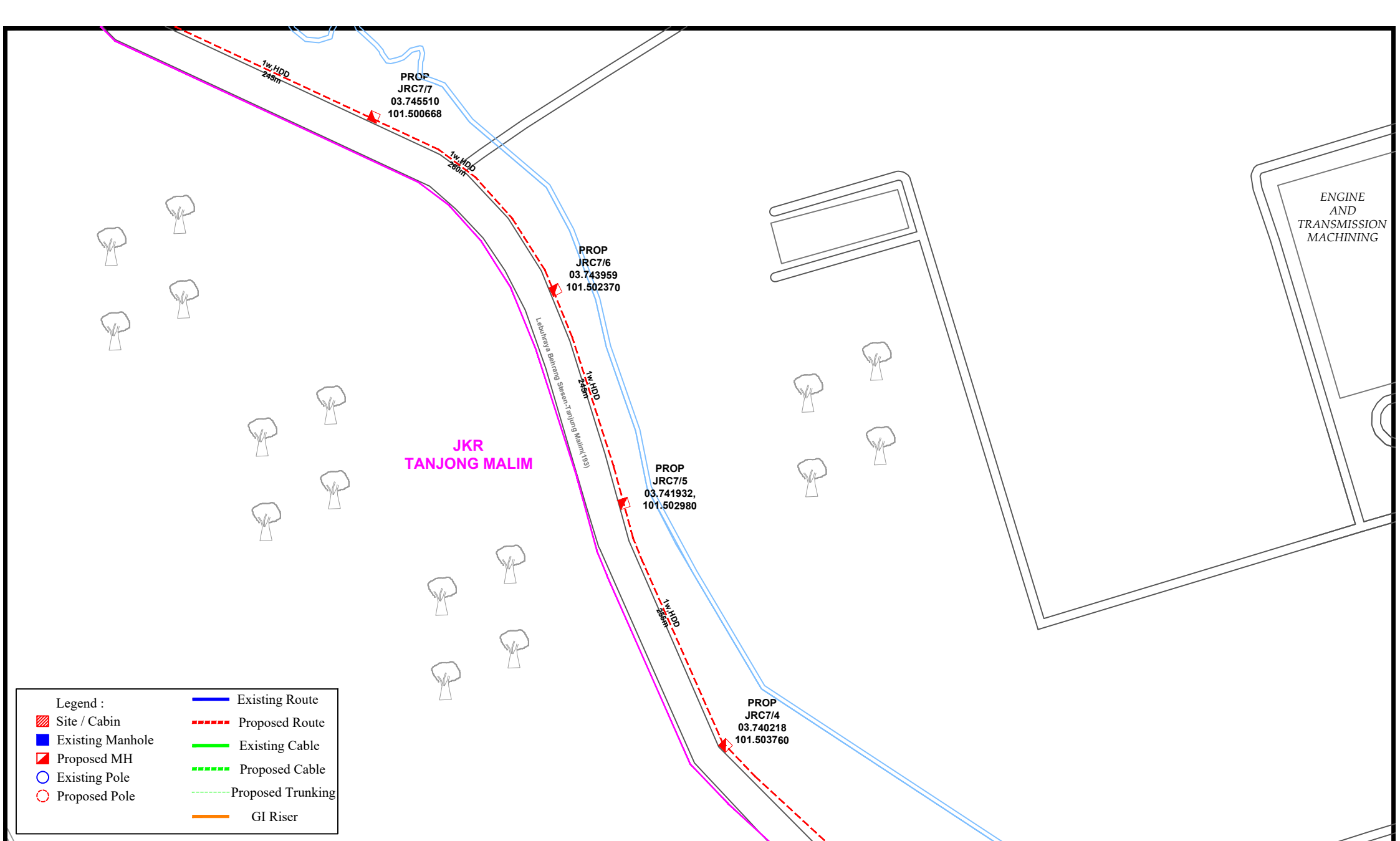
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**Approved by:**  
 NAZIM MAHMUD

**Sheet no :** 1 OF 3

**Rev:**



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

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

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 35900 TANJONG MALIM,  
 PERAK.

**Designed by:**  
 SAL NETWORK DESIGN SDN BHD

**Prepared by:** SAL NETWORK

**Job No:**

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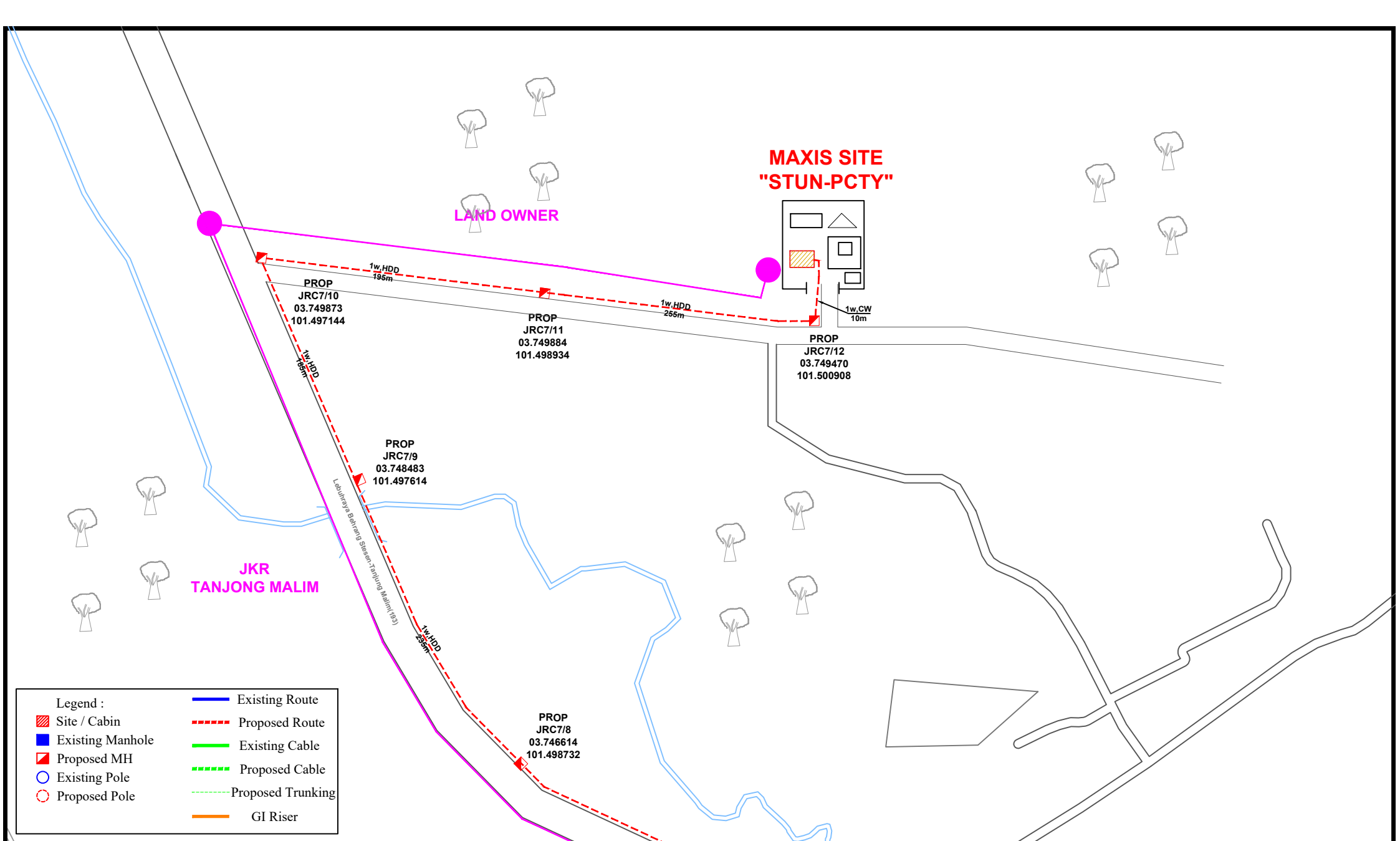
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**File:**

**Approved by:**  
 NAZIM MAHMUD

**Sheet no :** 2 OF 3

**Rev:**



**MAXIS SITE  
"STUN-PCTY"**

LAND OWNER

JKR  
TANJONG MALIM


PROP  
JRC7/10  
03.749873  
101.497144

PROP  
JRC7/11  
03.749884  
101.498934

PROP  
JRC7/12  
03.749470  
101.500908

PROP  
JRC7/9  
03.748483  
101.497614

PROP  
JRC7/8  
03.746614  
101.498732

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

**Title:**  
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 35900 TANJONG MALIM,  
 PERAK.

**Designed by:**  
 SAL NETWORK DESIGN SDN BHD

**Prepared by:** SAL NETWORK

**Job No:**

**Checked by:**  
 NAZIM MAHMUD

**Date:** 16/02/2024

**File:**

**Approved by:**  
 NAZIM MAHMUD

**Sheet no :** 3 OF 3

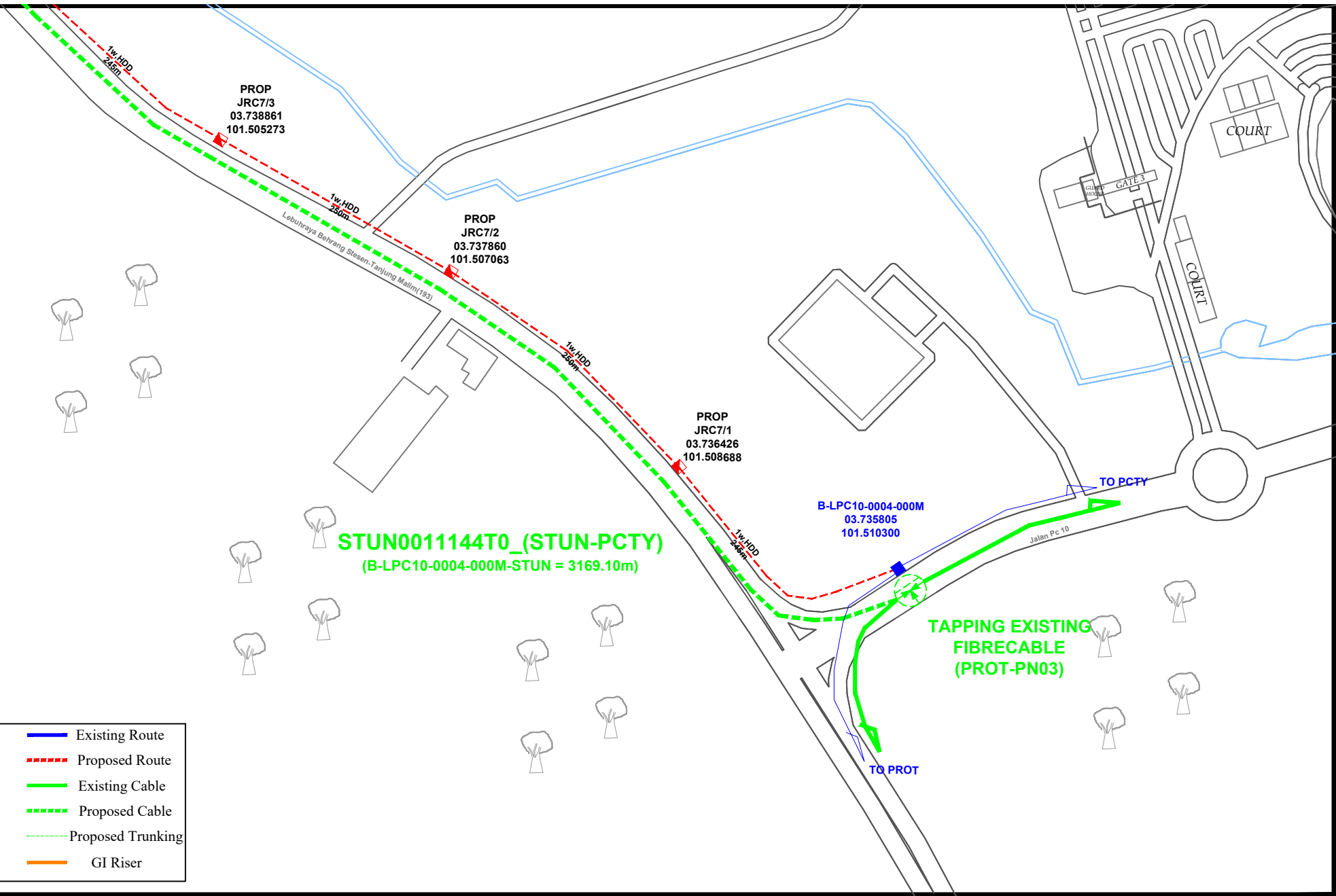
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**Section 6**

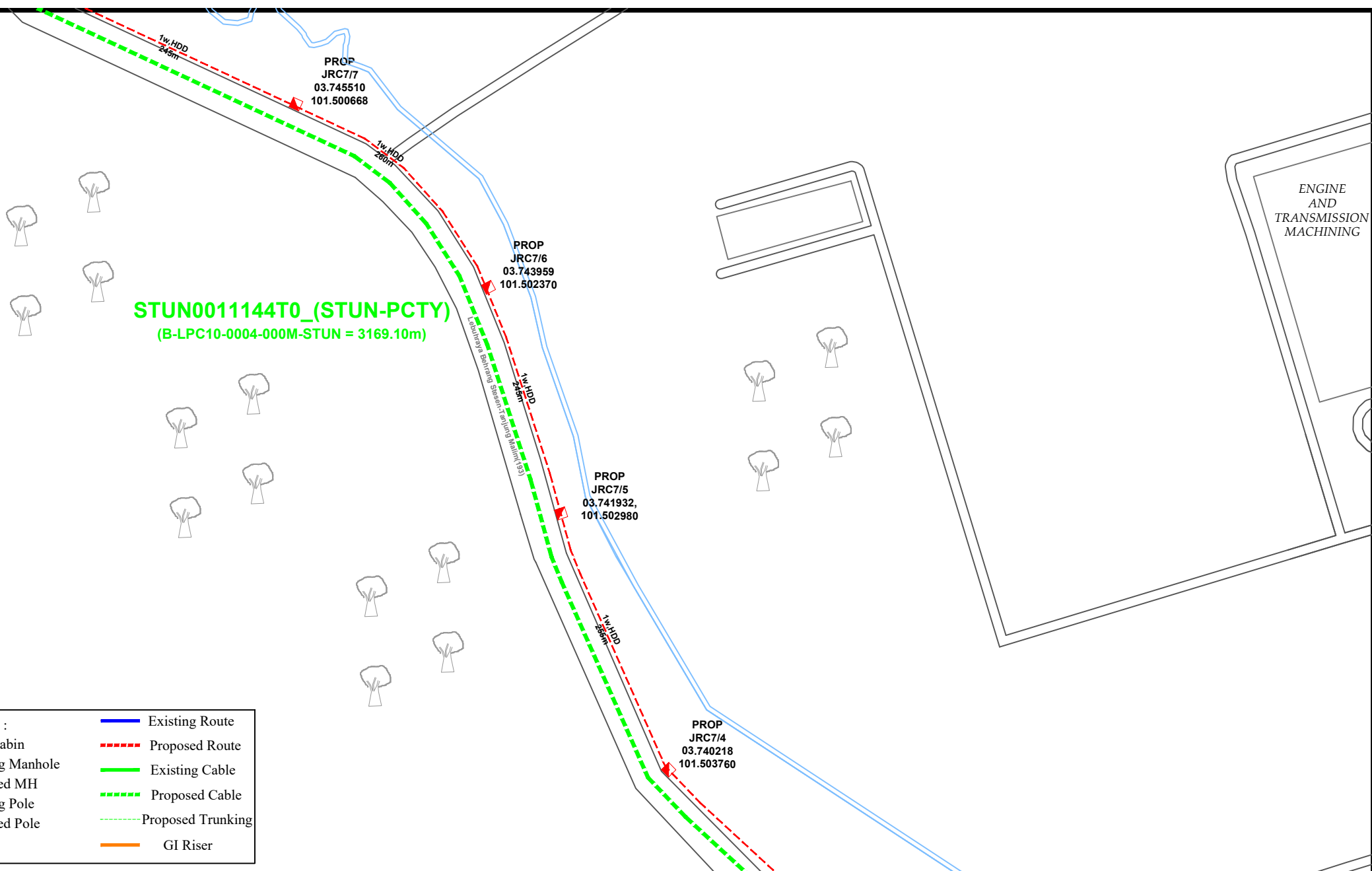
**Cable Infrastructure  
Route Plan  
&  
Proposed Cable  
Plan**





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

<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>	<b>Title:</b> SLD FIBRE CABLE 144 CORE PLAN FOR SITE "STUN-PCTY" CABLE NAME: STUN001144T0_ (STUN-PCTY)	<b>Designed by:</b> SAL NETWORK DESIGN SDN BHD	<b>Checked by:</b> NAZIM MAHMUD	<b>Approved by:</b> NAZIM MAHMUD
	<b>Prepared by:</b> SAL NETWORK	<b>Date:</b> 16/02/2024	<b>Sheet no :</b> 1 OF 6	
	<b>Job No:</b>	<b>File:</b>	<b>Rev:</b>	



**STUN0011144T0\_(STUN-PCTY)**  
 (B-LPC10-0004-000M-STUN = 3169.10m)

Legend :	Existing Route
Site / Cabin	Proposed Route
Existing Manhole	Existing Cable
Proposed MH	Proposed Cable
Existing Pole	Proposed Trunking
Proposed Pole	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:**  
 SLD FIBRE CABLE 144 CORE PLAN  
 FOR SITE "STUN-PCTY"  
 CABLE NAME: STUN0011144T0\_(STUN-PCTY)

**Designed by:**  
 SAL NETWORK DESIGN SDN BHD

**Prepared by:** SAL NETWORK

**Job No:**

**Checked by:**  
 NAZIM MAHMUD

**Date:** 16/02/2024

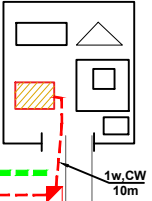
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**Approved by:**  
 NAZIM MAHMUD

**Sheet no :** 2 OF 6

**Rev:**

**MAXIS SITE  
"STUN-PCTY"**



**STUN0011144T0\_(STUN-PCTY)**  
(B-LPC10-0004-000M-STUN = 3169.10m)

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

PROP  
JRC7/10  
03.749873  
101.497144

PROP  
JRC7/11  
03.749884  
101.498934

PROP  
JRC7/12  
03.749470  
101.500908

PROP  
JRC7/9  
03.748483  
101.497614

PROP  
JRC7/8  
03.746614  
101.498732

Lubangnya Bekwang Sistem-Tanjung Kelam(18)



**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

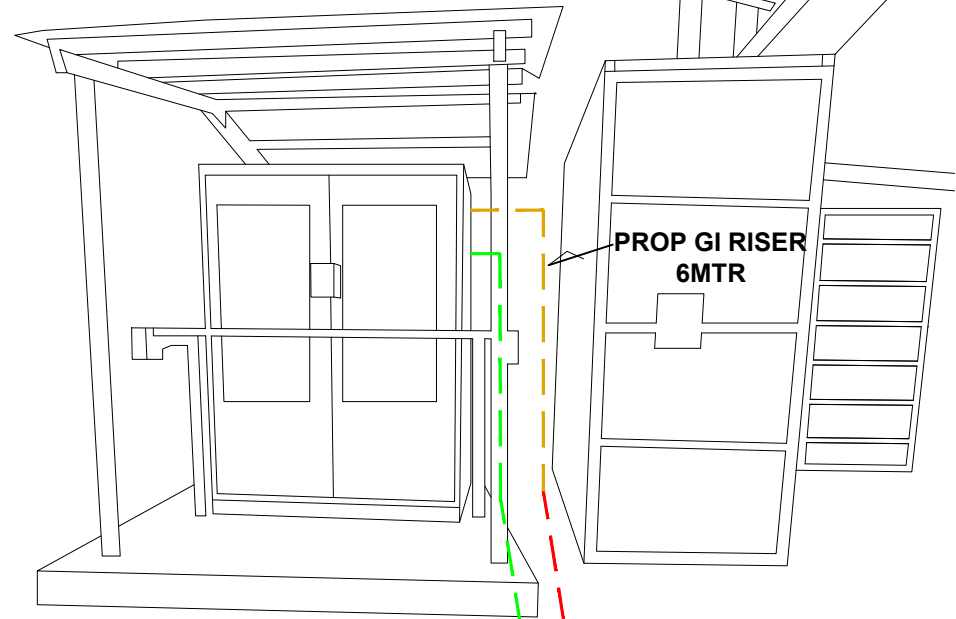
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FOR SITE "STUN-PCTY"  
CABLE NAME: STUN0011144T0\_(STUN-PCTY)

**Designed by:**  
SAL NETWORK DESIGN SDN BHD  
**Prepared by:** SAL NETWORK  
**Job No:**

**Checked by:**  
NAZIM MAHMUD  
**Date:** 16/02/2024  
**File:**

**Approved by:**  
NAZIM MAHMUD  
**Sheet no :** 3 OF 6  
**Rev:**

**MAXIS SITE  
"STUN-PCTY"**



**STUN0011144T0\_(STUN-PCTY)**  
(B-LPC10-0004-000M-STUN = 3169.10m)

TOWER

PROP GI RISER  
6MTR

1w, CW  
10m



**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 "STUN-PCTY"  
CABLE NAME: STUN0011144T0\_(STUN-PCTY)

**Designed by:**

SAL NETWORK DESIGN SDN BHD

**Prepared by:** SAL NETWORK

**Job No:**

**Checked by:**

NAZIM MAHMUD

**Date:** 16/02/2024

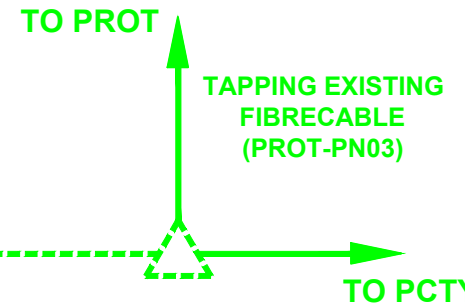
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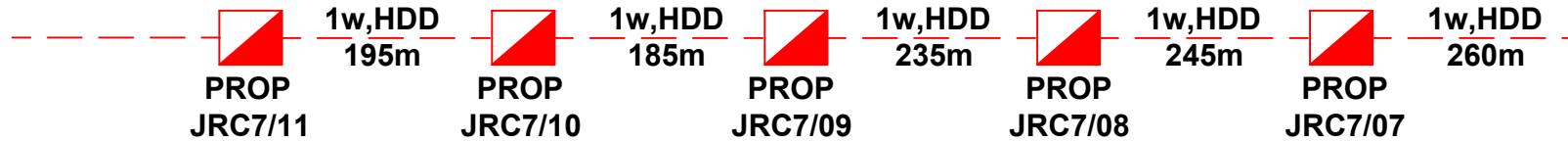
NAZIM MAHMUD

**Sheet no :** 4 OF 6

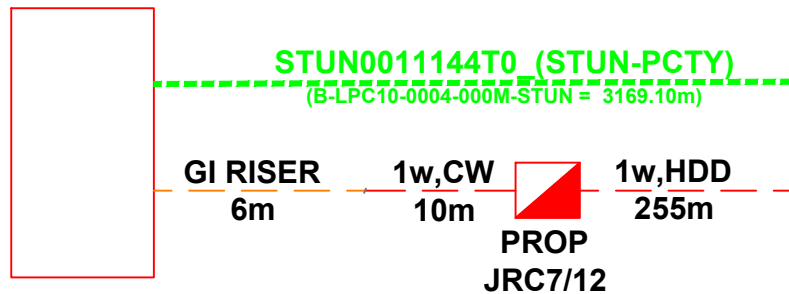
**Rev:**



**STUN0011144T0 (STUN-PCTY)**  
(B-LPC10-0004-000M-STUN = 3169.10m)



**MAXIS SITE  
"STUN-PCTY"**



**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 "STUN-PCTY"  
CABLE NAME: STUN0011144T0\_ (STUN-PCTY)

**Designed by:**

SAL NETWORK DESIGN SDN BHD

**Prepared by:** SAL NETWORK

**Job No:**

**Checked by:**

NAZIM MAHMUD

**Date:** 16/02/2024

**File:**

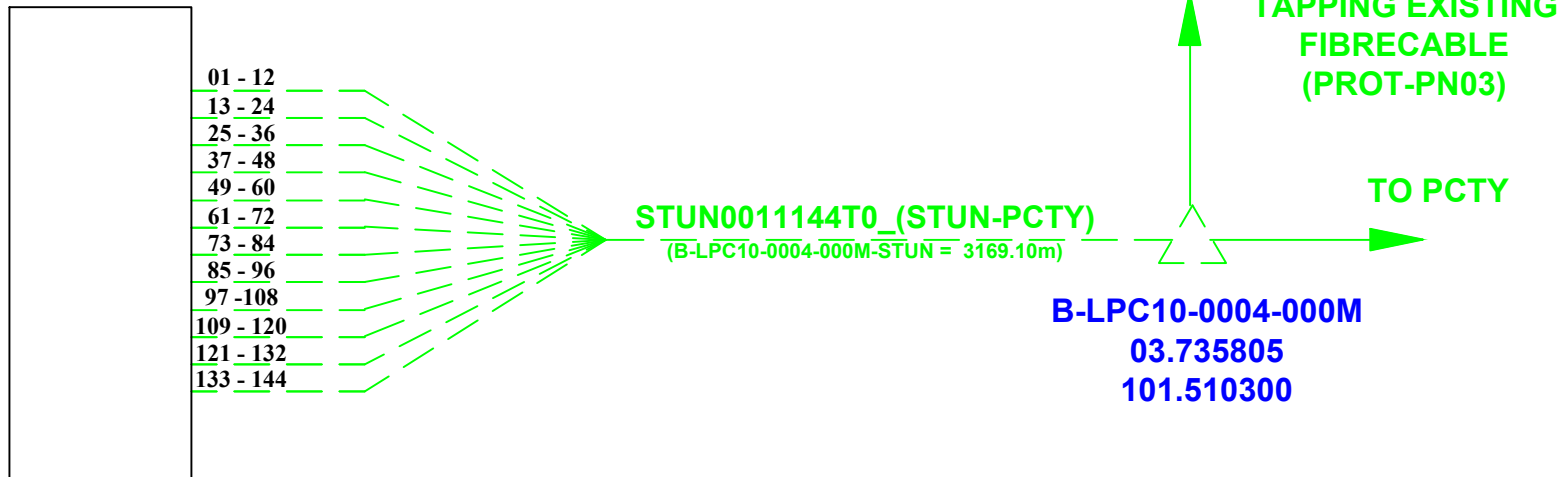
**Approved by:**

NAZIM MAHMUD

**Sheet no :** 5 OF 6

**Rev:**

**MAXIS SITE  
"STUN-PCTY"**



**MAXIS BROADBAND SDN BHD**

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

**Title:**

SLD FIBRE CABLE 144 CORE PLAN  
FOR SITE "STUN-PCTY"  
CABLE NAME: STUN0011144T0\_(STUN-PCTY)

**Designed by:**

SAL NETWORK DESIGN SDN BHD

**Prepared by:** SAL NETWORK

**Job No:**

**Checked by:**

NAZIM MAHMUD

**Date:** 16/02/2024

**File:**

**Approved by:**

NAZIM MAHMUD

**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 "STUN-PCTY"
PROJECT TYPE	:	
TITLE	:	
PROJECT CADE	:	
CONTRACTOR	:	SAL NETWORK DESIGN SDN BHD
PROJECT MANAGER	:	
LOCATION	:	AT VACANT LAND, 35900 TANJONG MALIM, PERAK.
QUANTITY REQUESTED	:	
REQUIRED DATE	:	

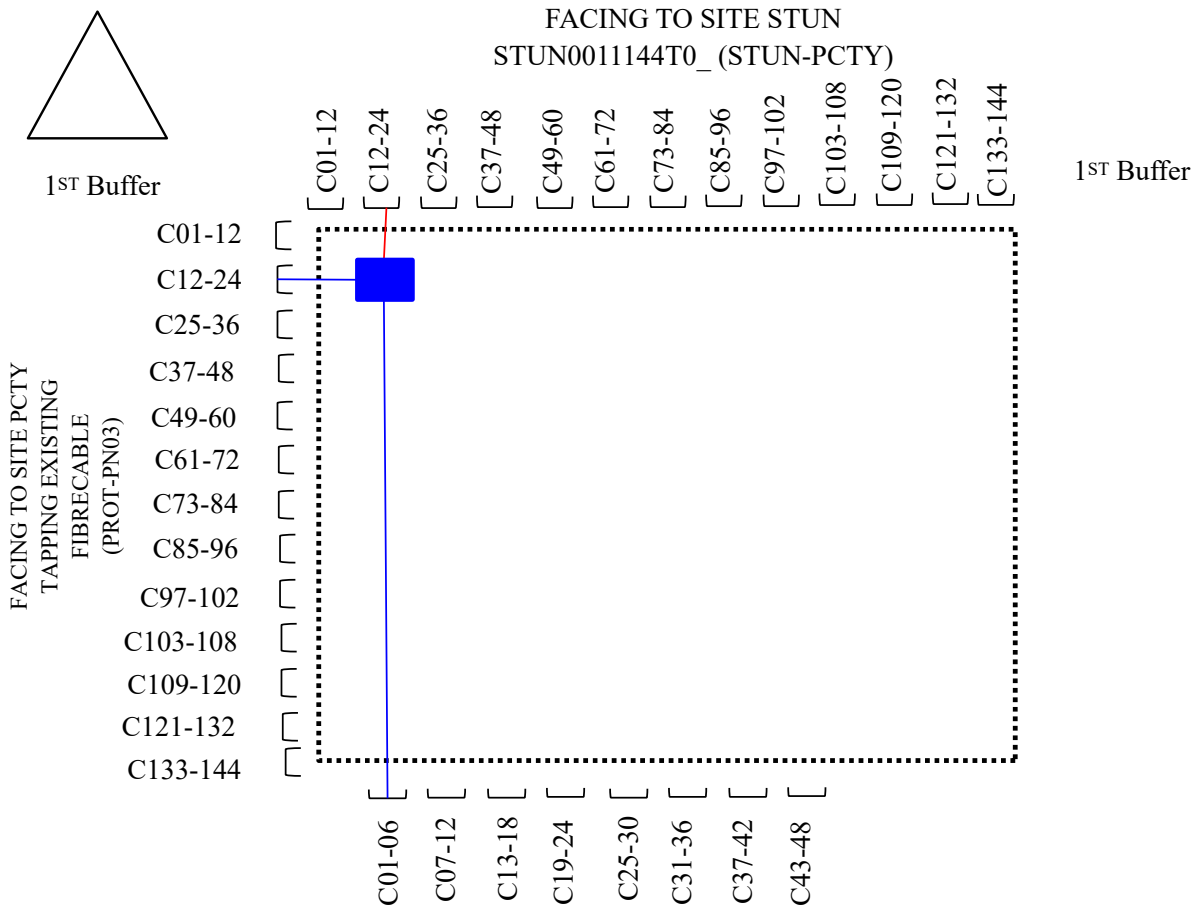
NO	SECTION		CABLE SIZE	ROUTE DISTANCE (METER)	CABLE ALLOWONES (METER)	ACTUAL CABLE LENGTH	SPLICING/ TERMINATION POINT	REMARKS
1	B-LPC10-0004-000M	TO	PROP JRC7/01	144CORE	245	24.50	269.50	EXIST MAXIS MH
2	PROP JRC7/01	TO	PROP JRC7/02	144CORE	250	25.00	275.00	
3	PROP JRC7/02	TO	PROP JRC7/03	144CORE	250	25.00	275.00	
4	PROP JRC7/03	TO	PROP JRC7/04	144CORE	245	24.50	269.50	
5	PROP JRC7/04	TO	PROP JRC7/05	144CORE	255	25.50	280.50	
6	PROP JRC7/05	TO	PROP JRC7/06	144CORE	245	24.50	269.50	
7	PROP JRC7/06	TO	PROP JRC7/07	144CORE	260	26.00	286.00	
8	PROP JRC7/07	TO	PROP JRC7/08	144CORE	245	24.50	269.50	
9	PROP JRC7/08	TO	PROP JRC7/09	144CORE	235	23.50	258.50	
10	PROP JRC7/09	TO	PROP JRC7/10	144CORE	185	18.50	203.50	
11	PROP JRC7/10	TO	PROP JRC7/11	144CORE	195	19.50	214.50	
12	PROP JRC7/11	TO	PROP JRC7/12	144CORE	255	25.50	280.50	
13	PROP JRC7/12	TO	MAXIS SITE"STUN"	144CORE	16	1.60	17.60	TERMINATION MAXIS SITE"STUN"
					<b>2,881.00</b>		<b>3,169.10</b>	

# Section 7

## Core Assignment



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

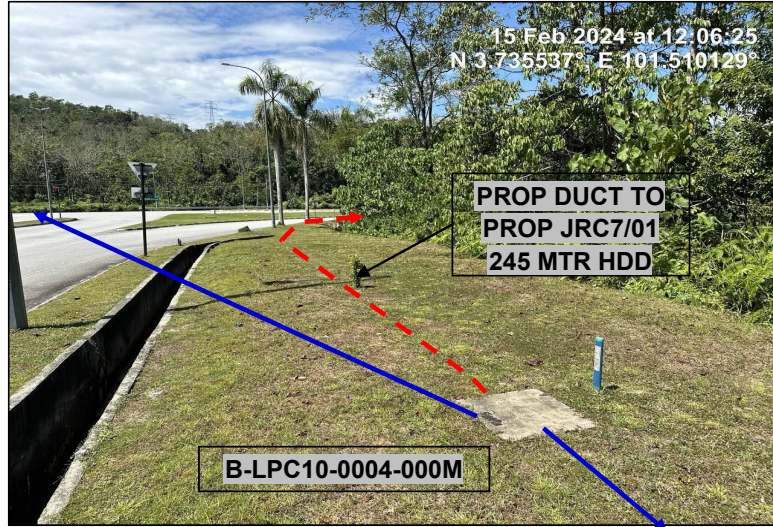


LEGEND



## Section 8: Outside Plant Site Snapshot

Photo 1

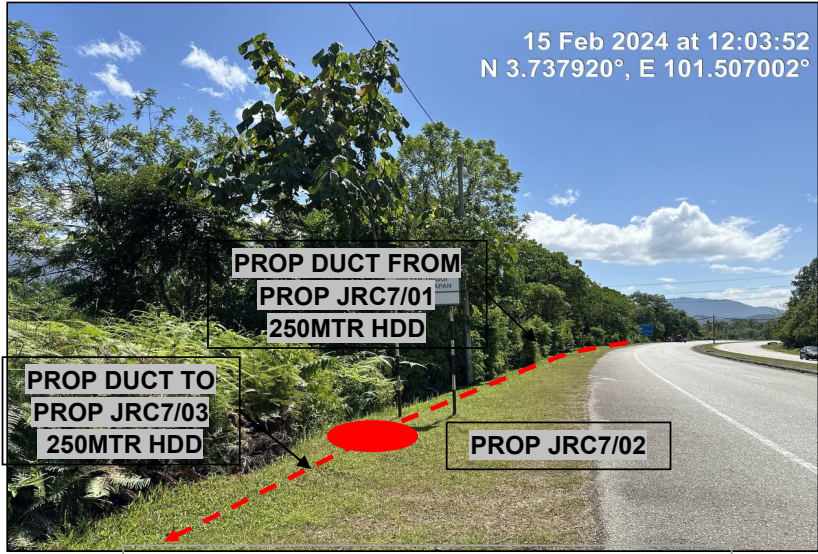


LOCATION AT JALAN PC10

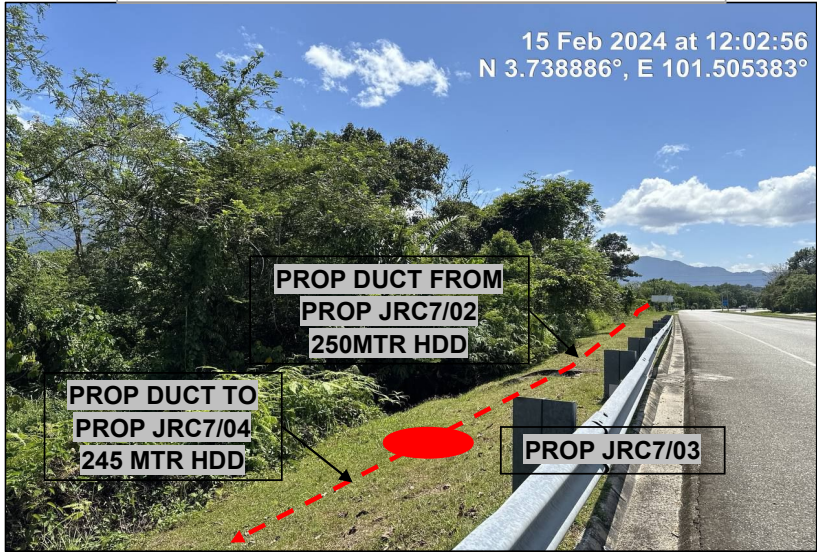


LOCATION AT LEBUHRAYA BEHRANG STEJEN-TANJUNG MALIM (193)

Photo 2

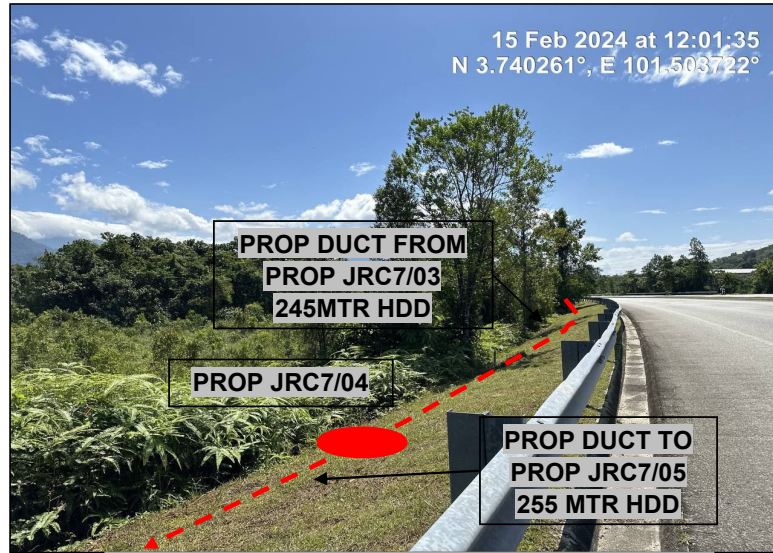


LOCATION AT LEBUHRAYA BEHRANG STESEN-TANJUNG MALIM (193)

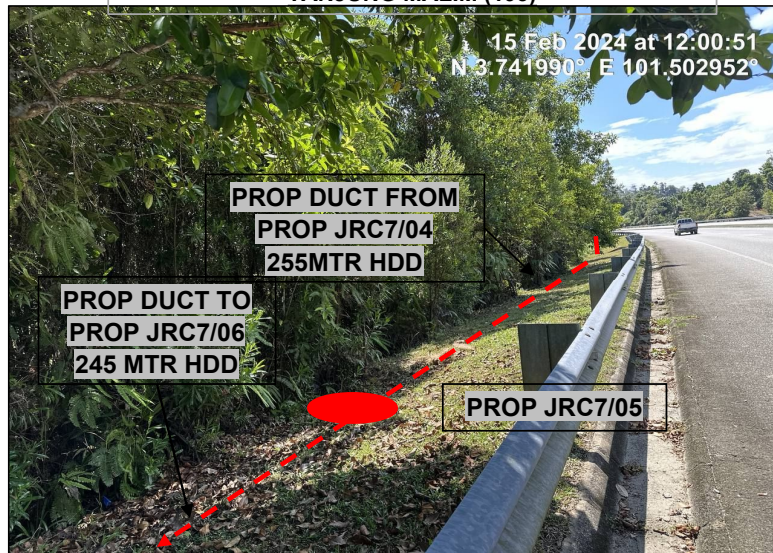


LOCATION AT LEBUHRAYA BEHRANG STESEN-TANJUNG MALIM (193)

Photo 3

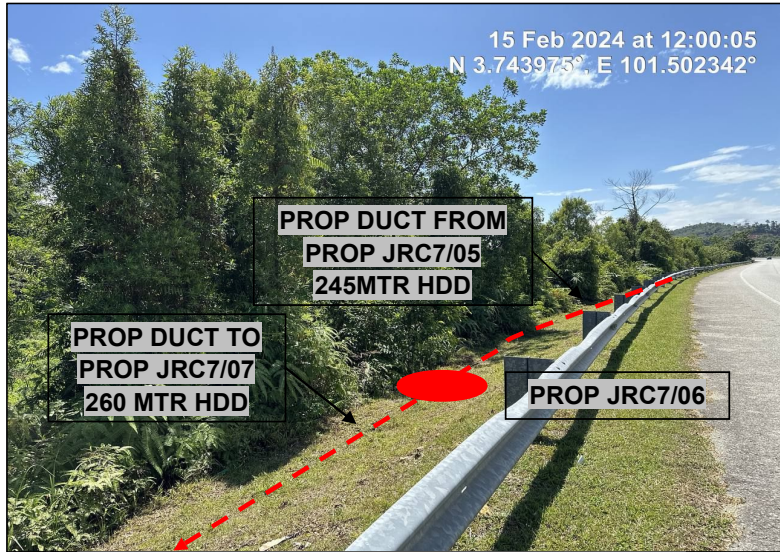


**LOCATION AT LEBUHRAYA BEHRANG STESEN-TANJUNG MALIM (193)**



**LOCATION AT LEBUHRAYA BEHRANG STESEN-TANJUNG MALIM (193)**

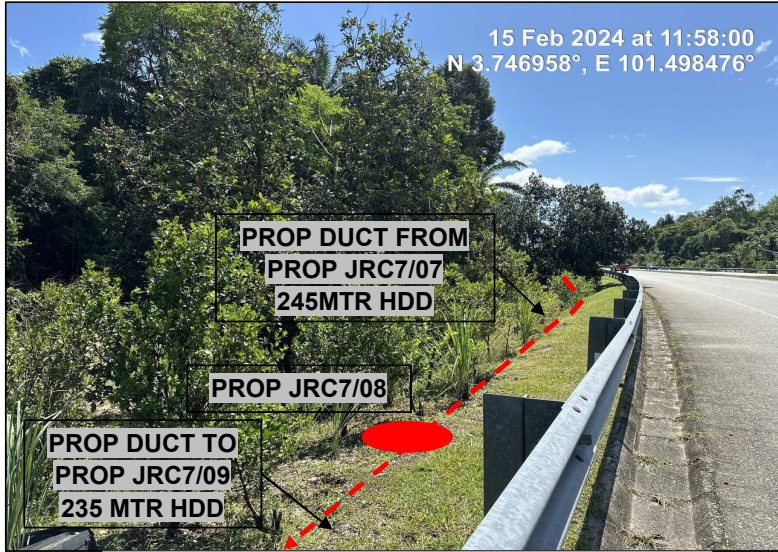
Photo 4



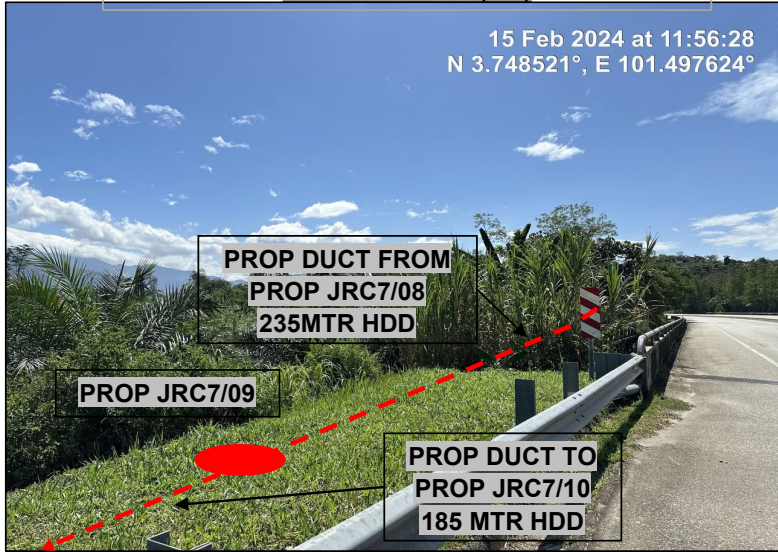
**LOCATION AT LEBUHRAYA BEHRANG STESEN-TANJUNG MALIM (193)**



**LOCATION AT LEBUHRAYA BEHRANG STESEN-TANJUNG MALIM (193)**

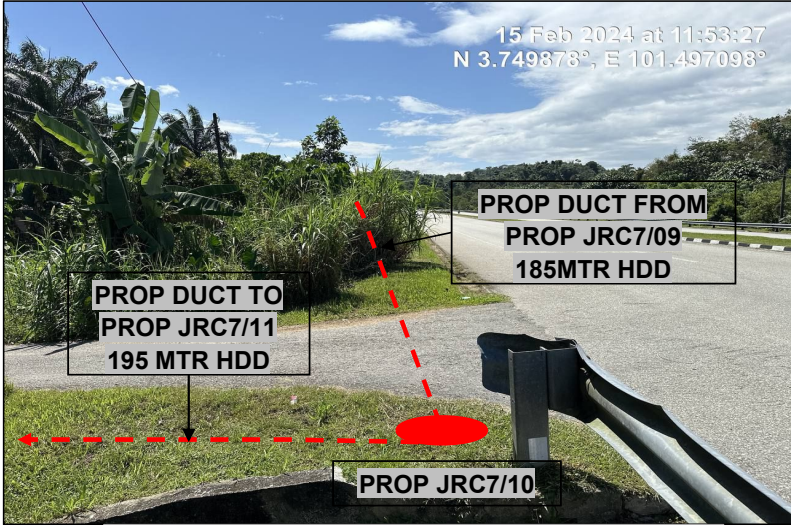


**LOCATION AT LEBUHRAYA BEHRANG STESEN-TANJUNG MALIM (193)**

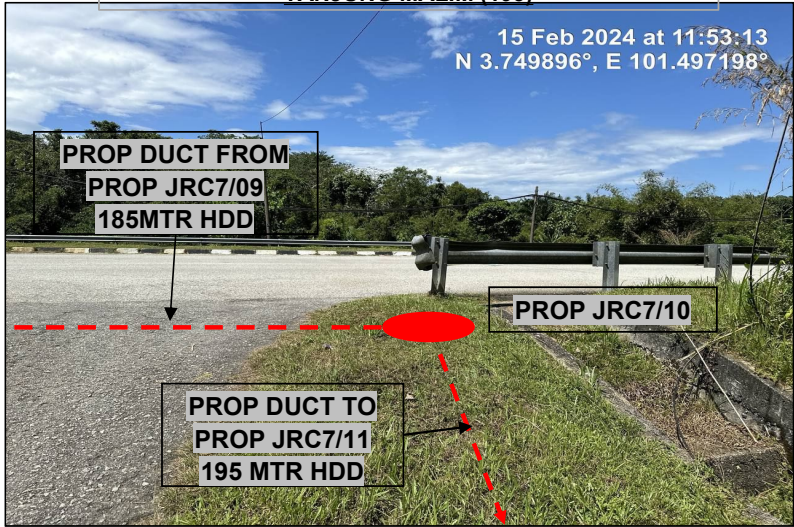


**LOCATION AT LEBUHRAYA BEHRANG STESEN-TANJUNG MALIM (193)**

Photo 6

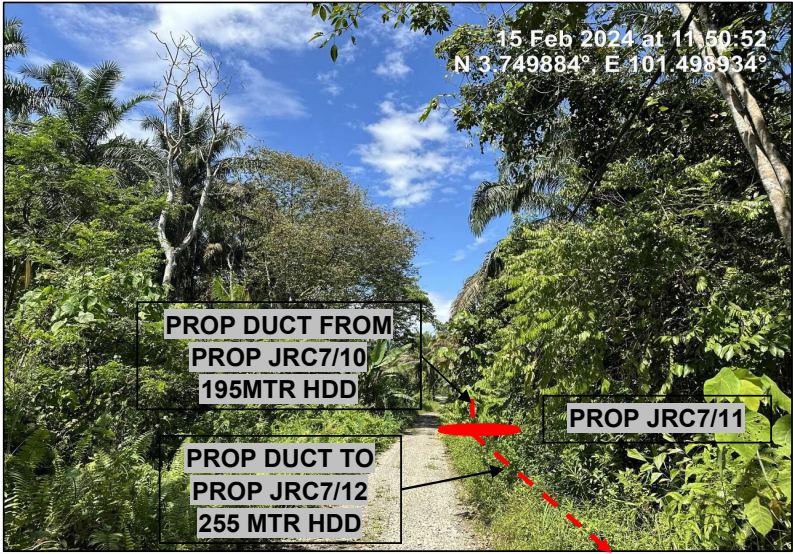


**LOCATION AT LEBUHRAYA BEHRANG STESEN-TANJUNG MALIM (193)**

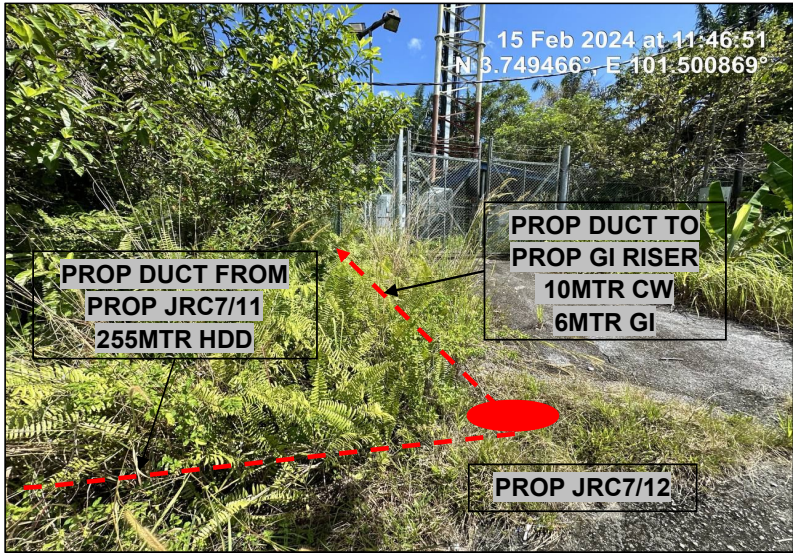


**LOCATION AT LEBUHRAYA BEHRANG STESEN-TANJUNG MALIM (193)**

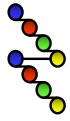
Photo 7



LOCATION AT UNNAMED ROAD TO SITE STUN

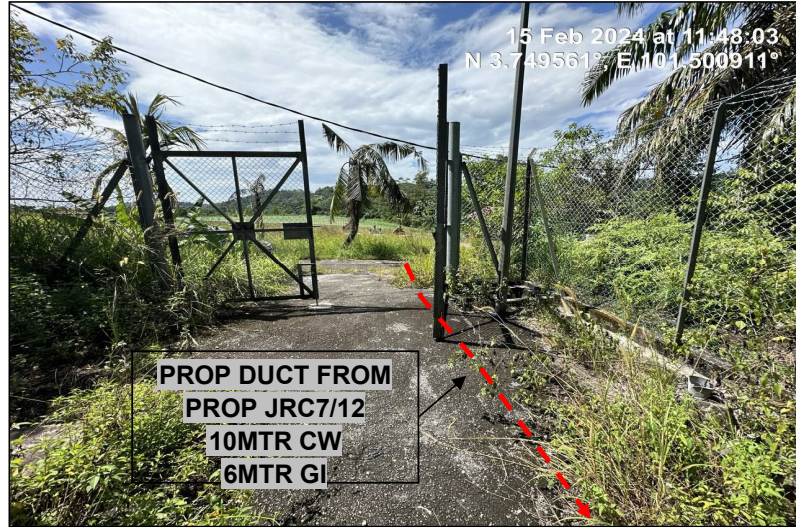


LOCATION AT MAXIS SITE STUN



## Section 9: Cabin Snapshot & Floor Plan Schematic Plan

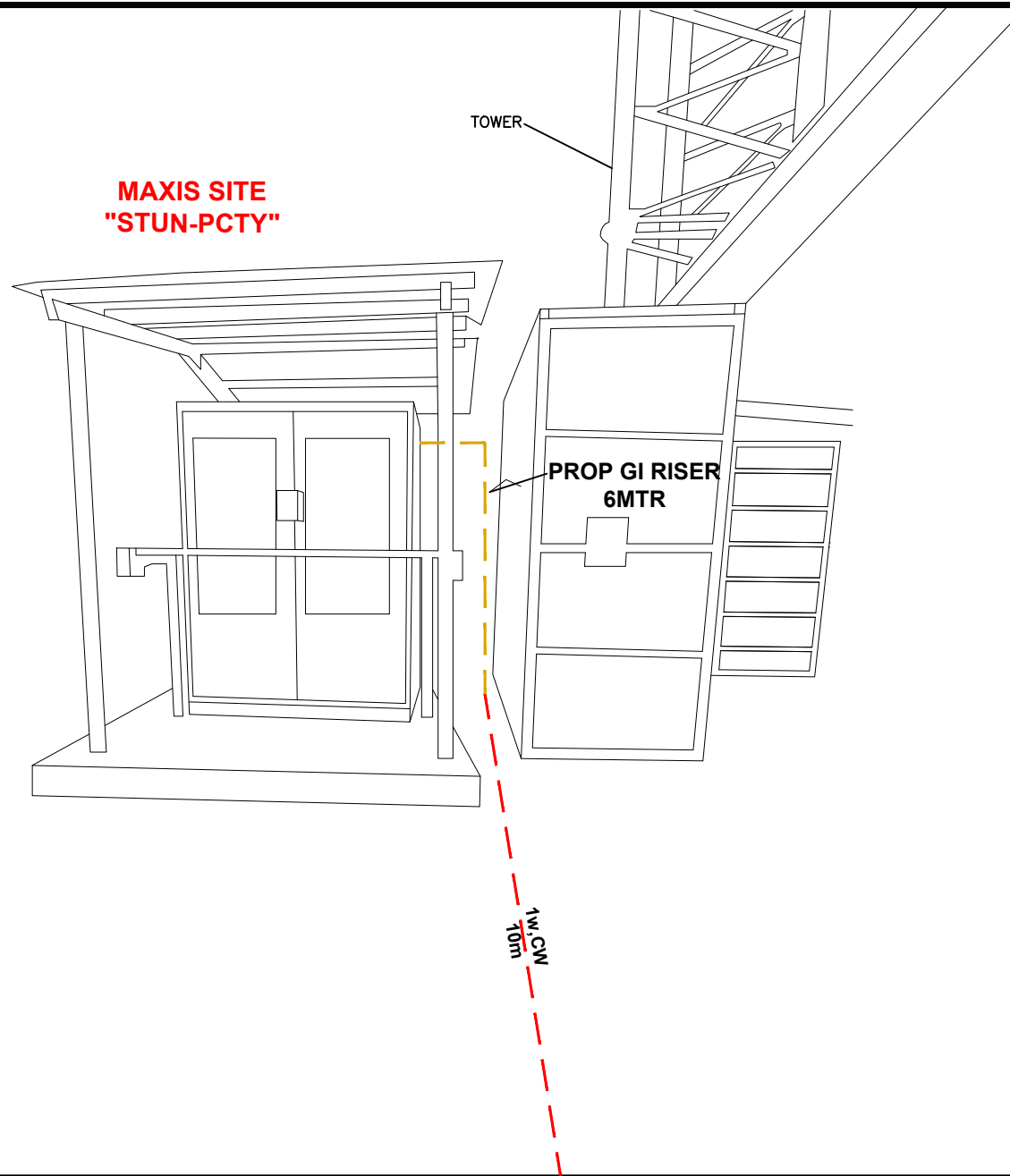
Photo 1



LOCATION AT MAXIS SITE STUN



LOCATION AT MAXIS SITE STUN



**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 "STUN-PCTY"  
AT VACANT LAND,  
35900 TANJONG MALIM,  
PERAK.

**Designed by:**

SAL NETWORK DESIGN SDN BHD

**Prepared by:** SAL NETWORK

**Job No:**

**Checked by:**

NAZIM MAHMUD

**Date:** 16/02/2024

**File:**

**Approved by:**

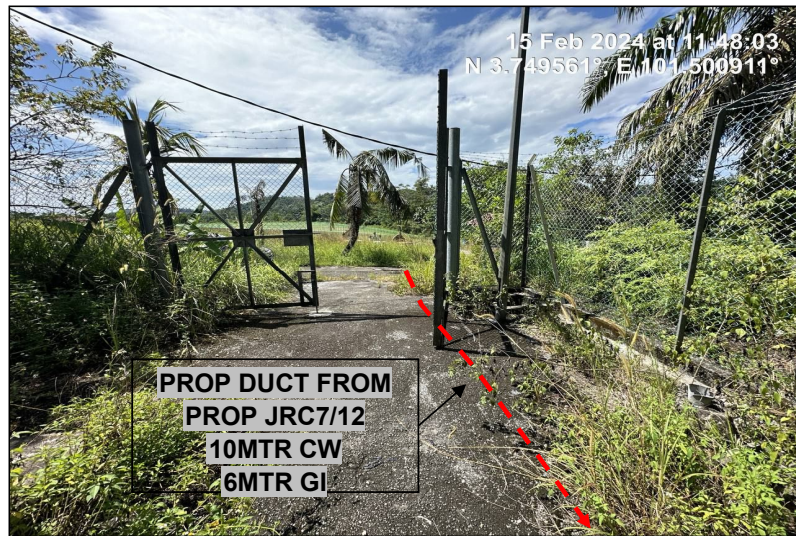
NAZIM MAHMUD

**Sheet no :** 5 OF 5

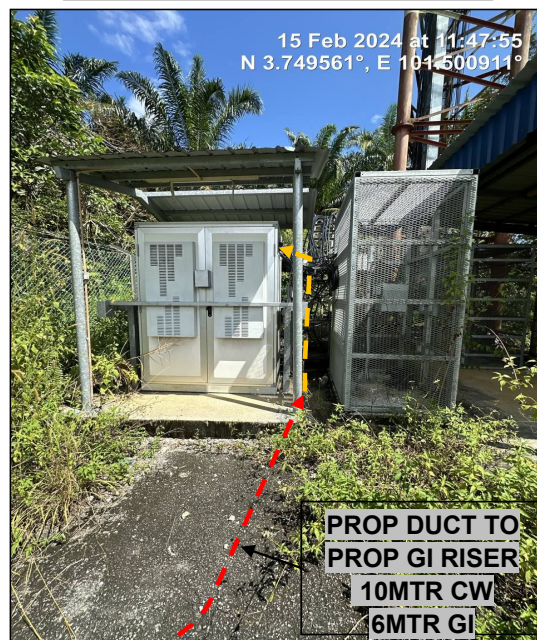
**Rev:**

## Section 10: Internal Trenching Permit/Snapshot

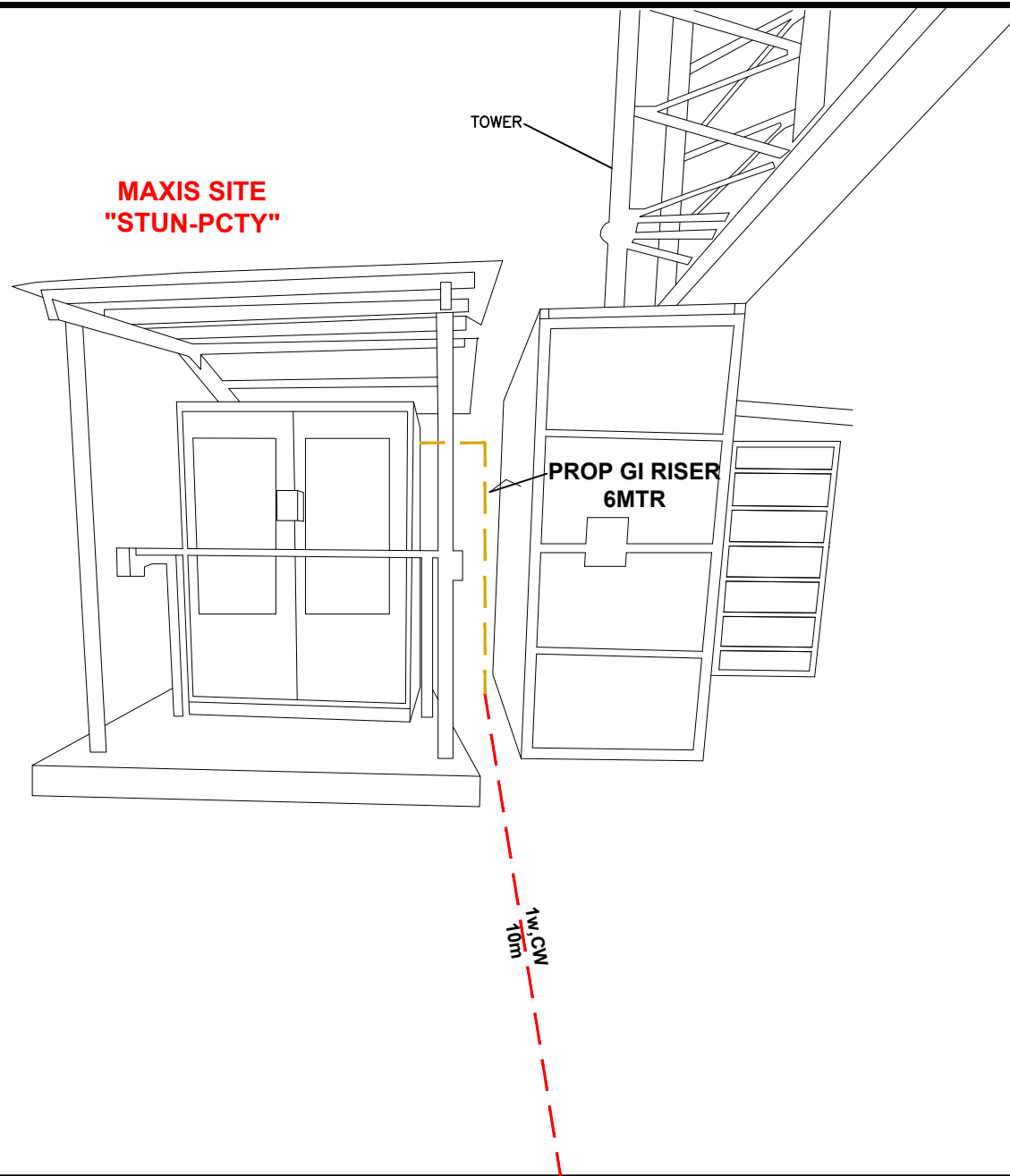
Photo 1



LOCATION AT MAXIS SITE STUN



LOCATION AT MAXIS SITE STUN



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**Designed by:**

SAL NETWORK DESIGN SDN BHD

**Prepared by:** SAL NETWORK

**Job No:**

**Checked by:**

NAZIM MAHMUD

**Date:** 16/02/2024

**File:**

**Approved by:**

NAZIM MAHMUD

**Sheet no :** 5 OF 5

**Rev:**

