



PROJEK PENYEDIAAN DAN PENYELENGGARAAN POINT OF PRESENSE (POP) FASA 2: HUB INFRASTRUKTUR GENTIAN OPTIK BERHAMPIRAN DENGAN SEKOLAH, KAWASAN PERINDUSTRIAN, PREMIS KERAJAAN DAN KOMUNITI SEKITARNYA OLEH KEMENTERIAN KOMUNIKASI MALAYSIA - ZON UTARA (KKMM.400-11/17/132(1))



TECHNICAL PROPOSAL

POP2 ABA8213 SEKOLAH KEBANGSAAN LAMBOR KIRI (D-SIDE)

Company Name	:	WCWL COMMUNICATIONS SDN BHD
Company Address	:	127, Jalan PUJ 3/3, Taman Puncak Jalil 43300 Subang Jaya Selangor
Prepared By	:	Zhahin
Date	:	17/02/2025



POINT A

POINT B

Starting Point

Site / Boundary Name	:	SEKOLAH KEBANGSAAN LAMBOR KIRI
Address	:	Jalan Bota Kiri – Teluk Sena
District	:	Lambor Kanan
Postcode	:	32900
State	:	Perak
GPS Coordinate	:	4.271401, 100.896493
LRD	:	A

End Point

Site / Boundary Name	:	SEKOLAH KEBANGSAAN LAMBOR KIRI
Address	:	Jalan Bota Kiri – Teluk Sena
District	:	Lambor Kanan
Postcode	:	32900
State	:	Perak
GPS Coordinate	:	4.282919, 100.880001
	:	B



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Work Summary

No	Proposed Distance and Method	Unit	Qty
1	Horizontal Directional Drilling (HDD)	m	0
2	Carriage Way Open trench (CW)	m	0
3	Grass Verge Open Trenching (GV)	m	0
4	Micro trenching (MT)	m	0
	Total		0

	Other Information	Unit	Qty
1	Proposed Manhole	EA	0
2	Proposed Pole	EA	67
3	Joint Closure	EA	2
4	Estimated time required for completion	days	30



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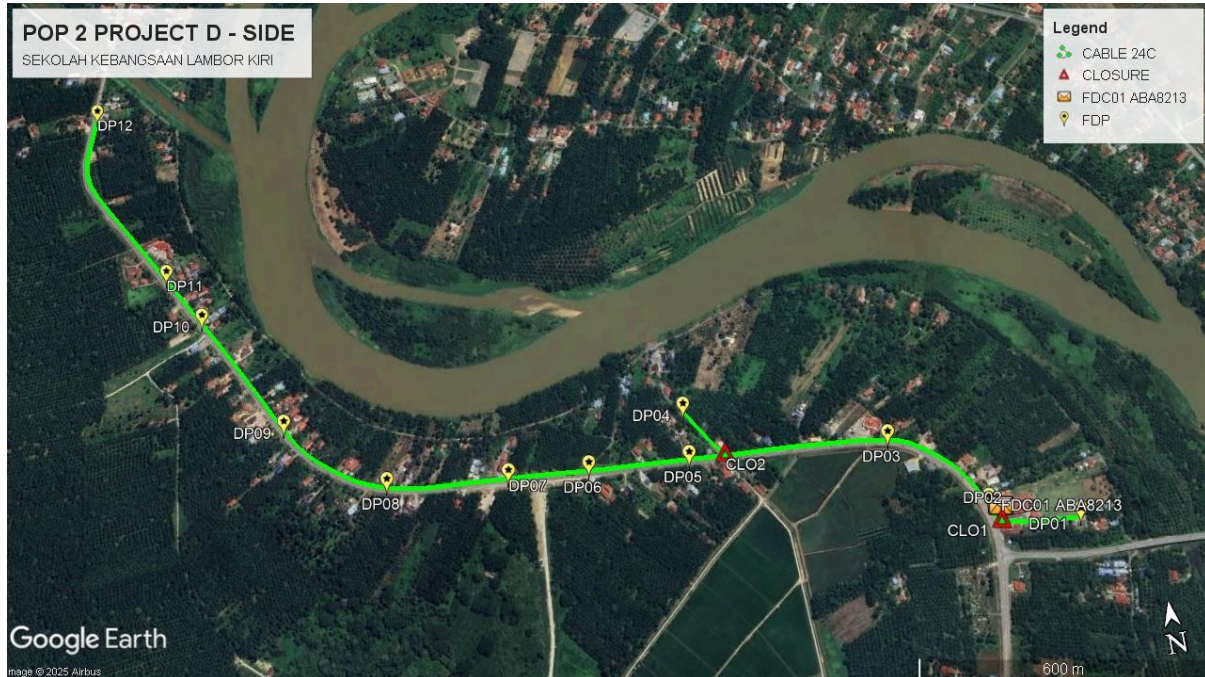
Local Authority Summary

1. Perak Tengah

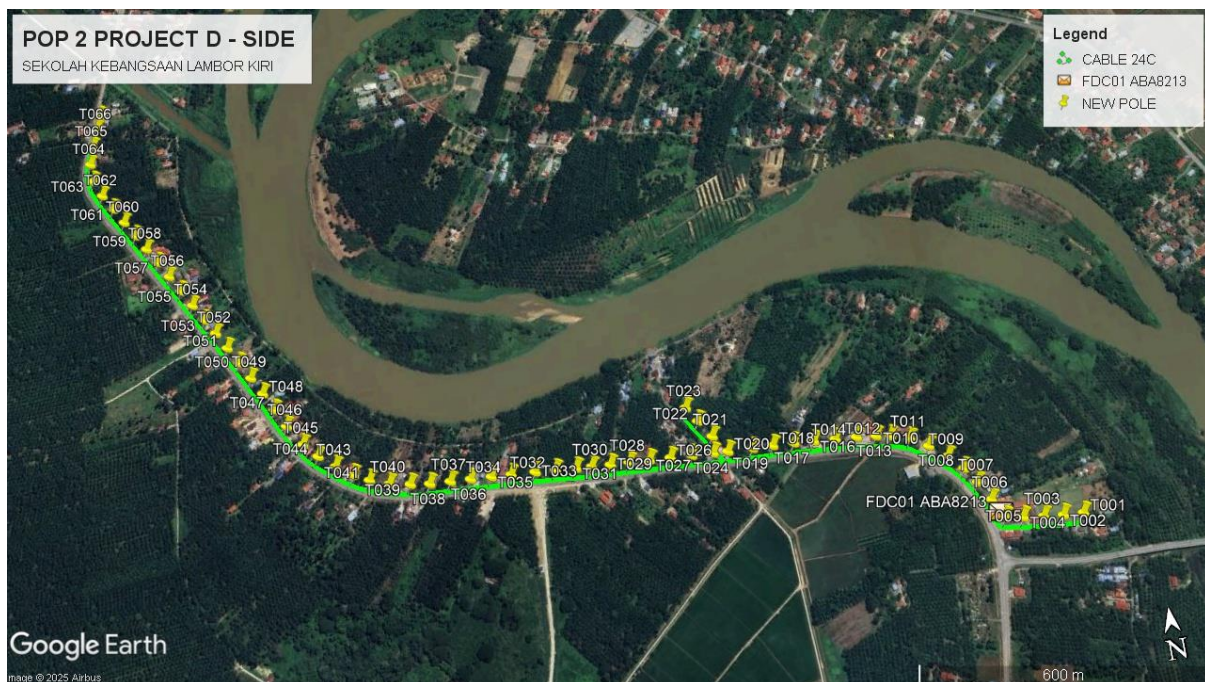
Bil	Items	Owner	Quantity	Distance
1	HDD	JKR	-	-
		Majlis	-	-
		Estate / Private Land	-	-
2	New Pole	JKR	60	2700m
		Majlis	7	315m
		Estate / Private Land	-	-
3	Existing TNB Pole	JKR	-	-
		Majlis	-	-
		Estate / Private Land	-	-
Total				3015m

Site Plan – KMZ (Overview site area)

Proposed FDP and Closure



Proposed New Pole

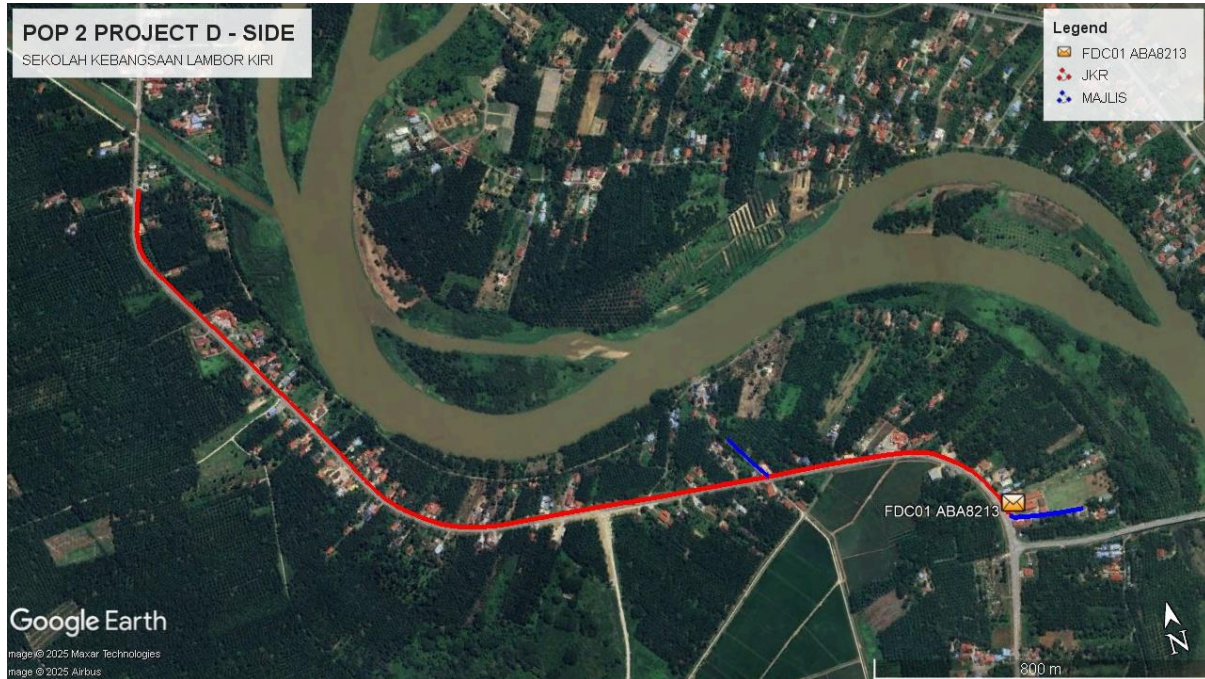




PROJEK PENYEDIAAN DAN PENYELENGGARAAN POINT OF PRESENSE (POP) FASA 2: HUB INFRASTRUKTUR GENTIAN OPTIK BERHAMPIRAN DENGAN SEKOLAH, KAWASAN PERINDUSTRIAN, PREMIS KERAJAAN DAN KOMUNITI SEKITARNYA OLEH KEMENTERIAN KOMUNIKASI MALAYSIA - ZON UTARA (KKMM.400-11/17/132(1))



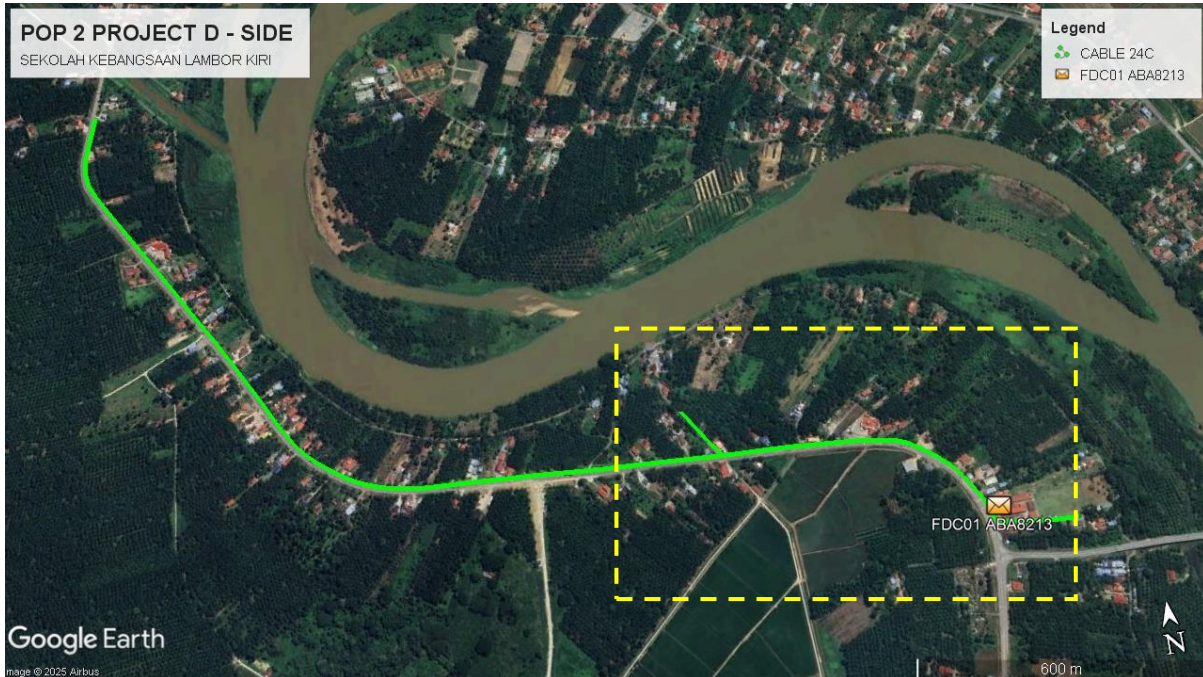
Site Plan – KMZ Routing (All Local Authority)



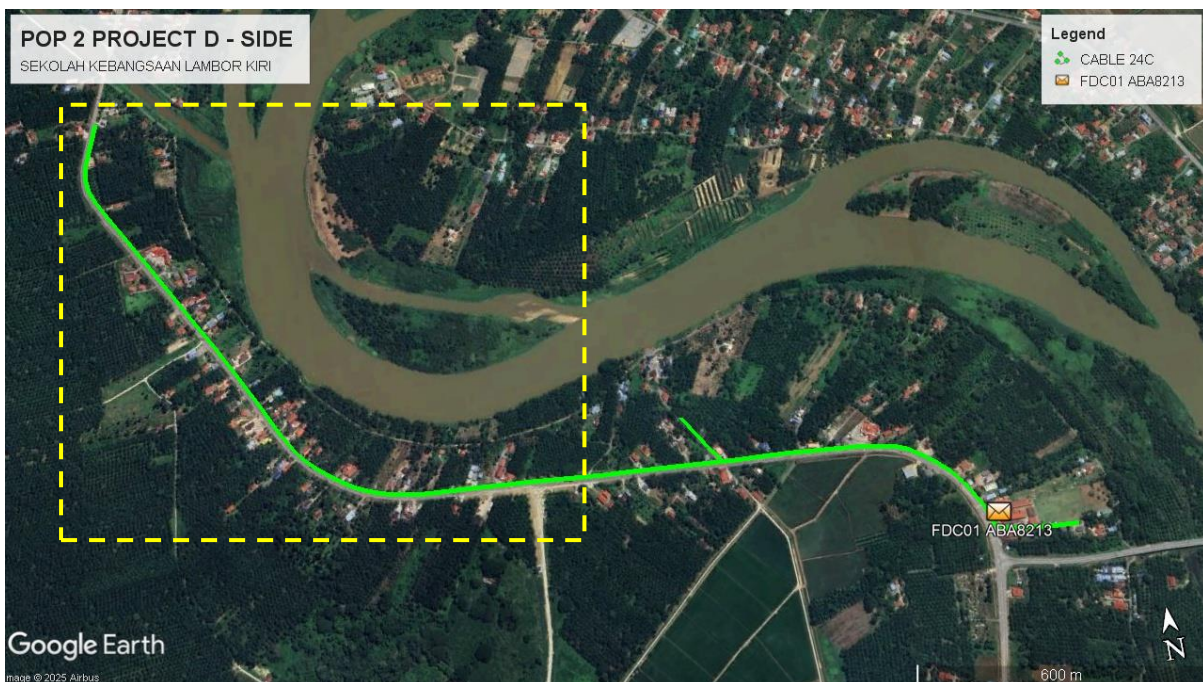
Blue Colour – Majlis Daerah Perak Tengah

Red Colour – JKR Perak

Route 1



Route 2





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Proposed New Pole Lat & Long Table

No.	Pole Number	Distance	Latitude	Longitude	Local Authority
1	FDC01 AEA8006	0.00	4.271401	100.896493	JKR Perak
2	T001	45	4.271188	100.897987	Majlis Daerah Perak Tengah
3	T002	45	4.271216	100.897603	Majlis Daerah Perak Tengah
4	T003	45	4.271260	100.897234	Majlis Daerah Perak Tengah
5	T004	45	4.271313	100.896849	Majlis Daerah Perak Tengah
6	T005	45	4.271370	100.896518	JKR Perak
7	T006	45	4.271739	100.896346	JKR Perak
8	T007	45	4.272107	100.896173	JKR Perak
9	T008	45	4.272410	100.895988	JKR Perak
10	T009	45	4.272689	100.895740	JKR Perak
11	T010	45	4.272949	100.895428	JKR Perak
12	T011	45	4.273156	100.895108	JKR Perak
13	T012	45	4.273268	100.894750	JKR Perak
14	T013	45	4.273319	100.894477	JKR Perak
15	T014	45	4.273367	100.894103	JKR Perak
16	T015	45	4.273401	100.893692	JKR Perak
17	T016	45	4.273439	100.893277	JKR Perak
18	T017	45	4.273474	100.892889	JKR Perak
19	T018	45	4.273497	100.892477	JKR Perak
20	T019	45	4.273515	100.892081	JKR Perak
21	T020 (9m)	45	4.273544	100.891601	JKR Perak
22	T021	45	4.273885	100.891362	Majlis Daerah Perak Tengah
23	T022	45	4.274227	100.891145	Majlis Daerah Perak Tengah
24	T023	45	4.274529	100.890961	Majlis Daerah Perak Tengah
25	T024 (9m)	45	4.273564	100.891317	JKR Perak
26	T025	45	4.273593	100.890901	JKR Perak
27	T026	45	4.273624	100.890482	JKR Perak
28	T027	45	4.273655	100.890079	JKR Perak
29	T028	45	4.273679	100.889683	JKR Perak
30	T029	45	4.273699	100.889318	JKR Perak
31	T030	45	4.273730	100.888956	JKR Perak
32	T031	45	4.273757	100.888652	JKR Perak
33	T032	45	4.273793	100.888252	JKR Perak
34	T033	45	4.273827	100.887862	JKR Perak
35	T034	45	4.273862	100.887394	JKR Perak
36	T035	45	4.273890	100.887009	JKR Perak
37	T036	45	4.273917	100.886607	JKR Perak
38	T037	45	4.273943	100.886214	JKR Perak
39	T038	45	4.273971	100.885815	JKR Perak



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40	T039	45	4.274029	100.885442	JKR Perak
41	T040	45	4.274112	100.885047	JKR Perak
42	T041	45	4.274250	100.884673	JKR Perak
43	T042	45	4.274408	100.884375	JKR Perak
44	T043	45	4.274633	100.884052	JKR Perak
45	T044	45	4.274891	100.883738	JKR Perak
46	T045	45	4.275174	100.883470	JKR Perak
47	T046	45	4.275590	100.883195	JKR Perak
48	T047	45	4.275957	100.882993	JKR Perak
49	T048	45	4.276323	100.882796	JKR Perak
50	T049	45	4.276678	100.882596	JKR Perak
51	T050	45	4.277033	100.882392	JKR Perak
52	T051	45	4.277375	100.882192	JKR Perak
53	T052	45	4.277720	100.881990	JKR Perak
54	T053	45	4.278034	100.881793	JKR Perak
55	T054	45	4.278387	100.881578	JKR Perak
56	T055	45	4.278730	100.881372	JKR Perak
57	T056	45	4.279082	100.881160	JKR Perak
58	T057	45	4.279425	100.880952	JKR Perak
59	T058	45	4.279755	100.880748	JKR Perak
60	T059	45	4.280083	100.880546	JKR Perak
61	T060	45	4.280419	100.880336	JKR Perak
62	T061	45	4.280754	100.880129	JKR Perak
63	T062	45	4.281091	100.879927	JKR Perak
64	T063	45	4.281449	100.879758	JKR Perak
65	T064	45	4.281836	100.879726	JKR Perak
66	T065	45	4.282227	100.879803	JKR Perak
67	T066	45	4.282608	100.879916	JKR Perak
68	T067	45	4.282901	100.880003	JKR Perak

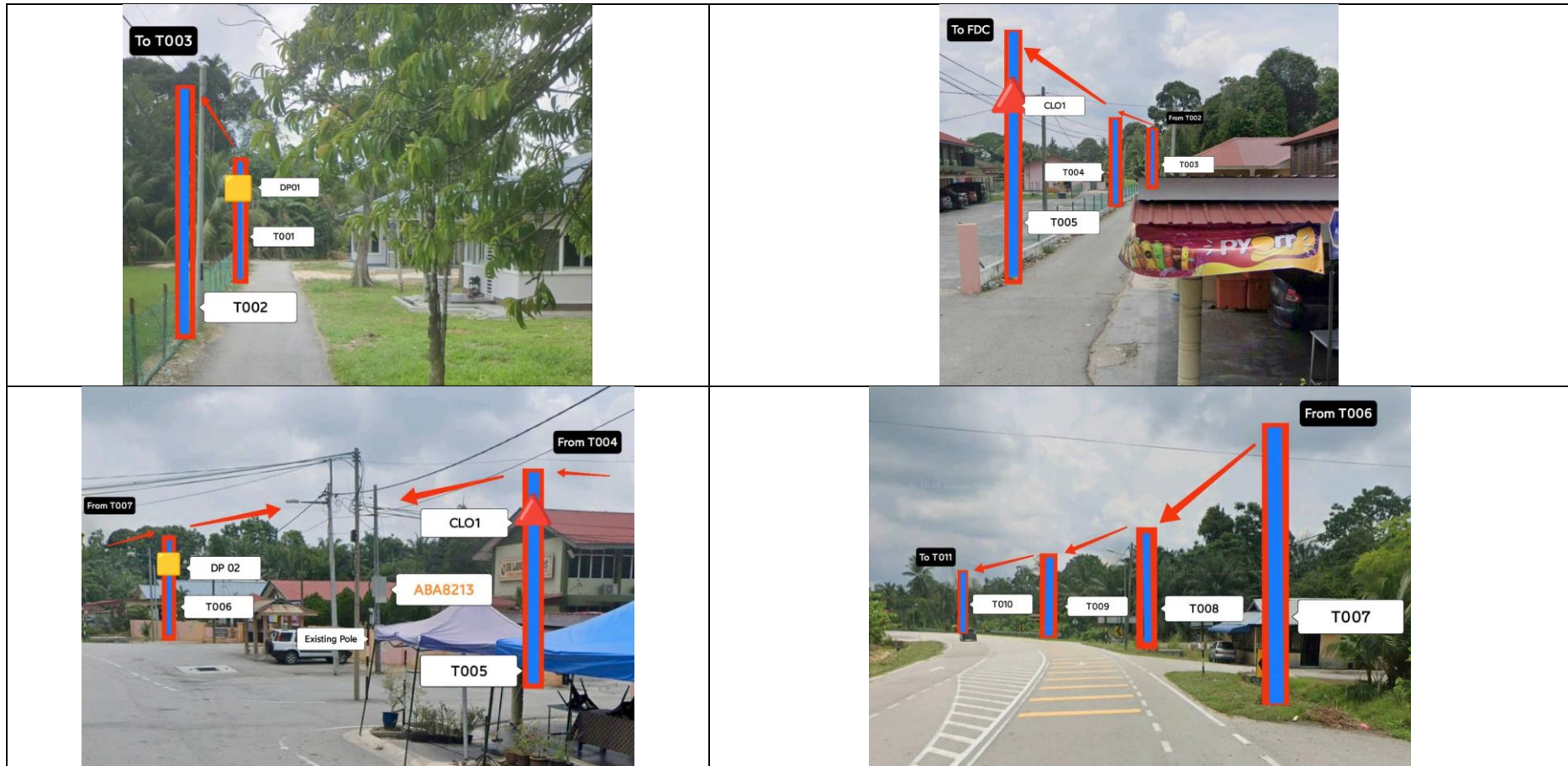
Bil	Type	7.5m	9m	Total
1	No Of Pole	65	2	67



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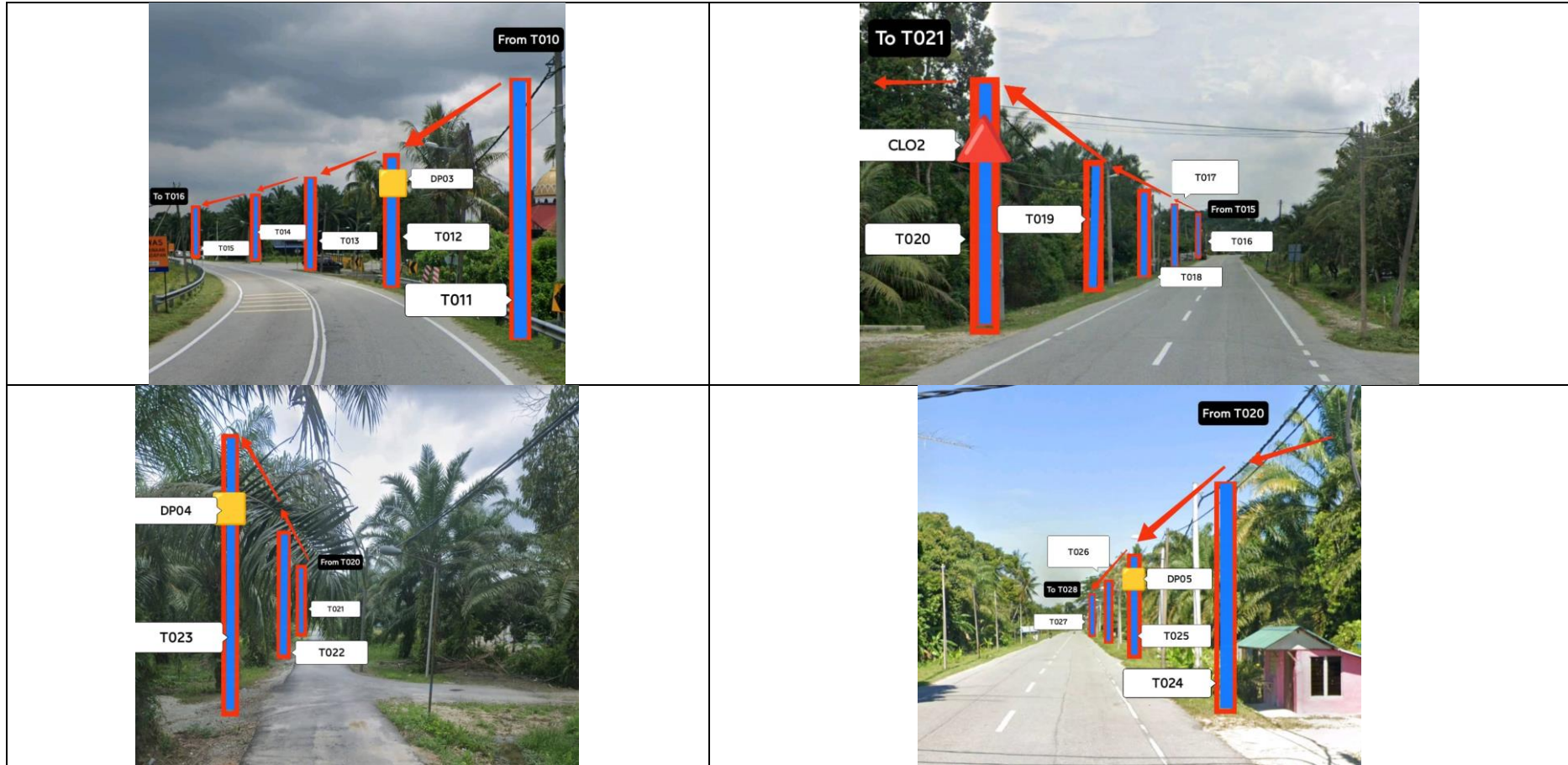


Site Photos – Proposed to install pole 7.5m



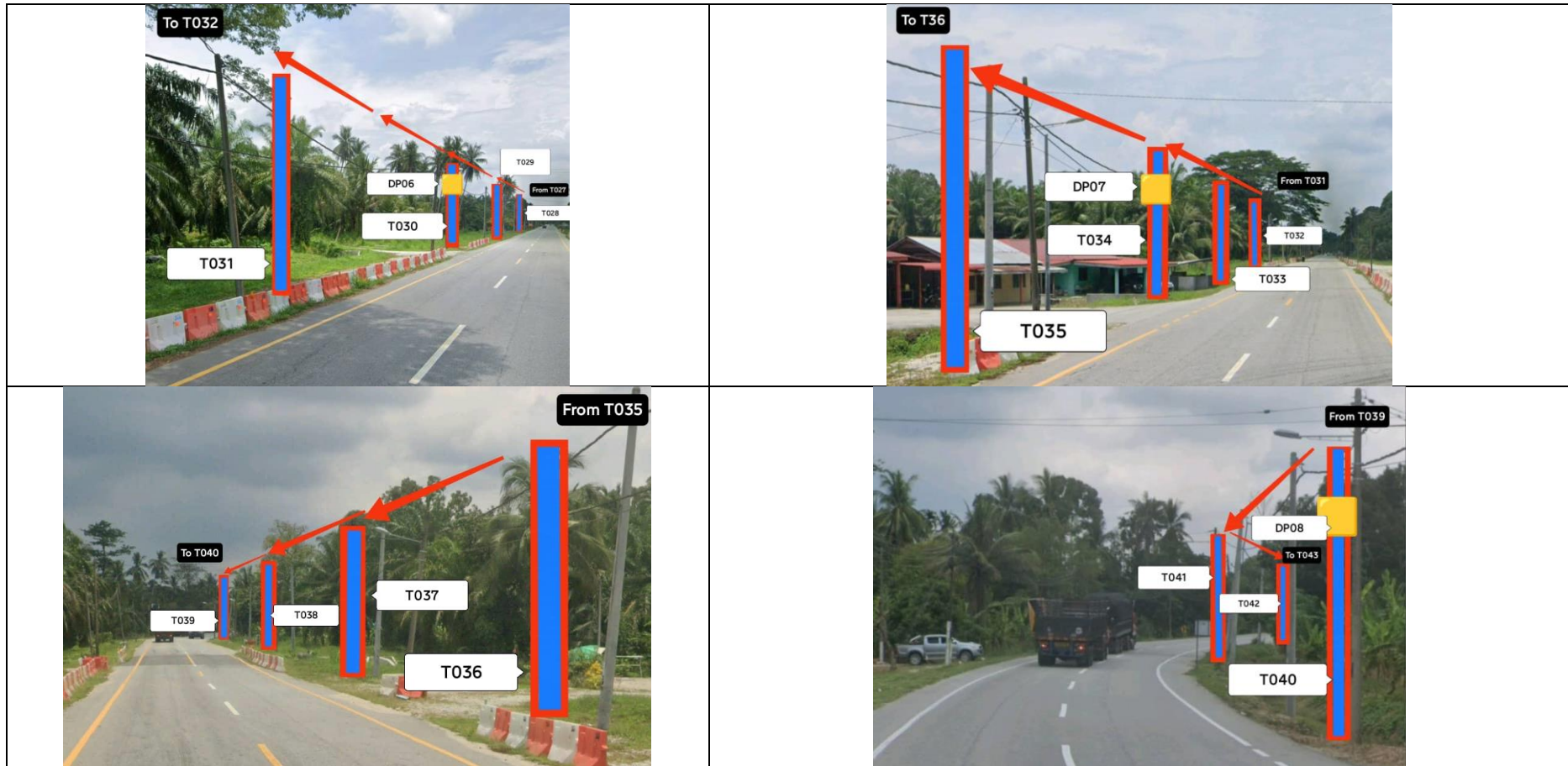


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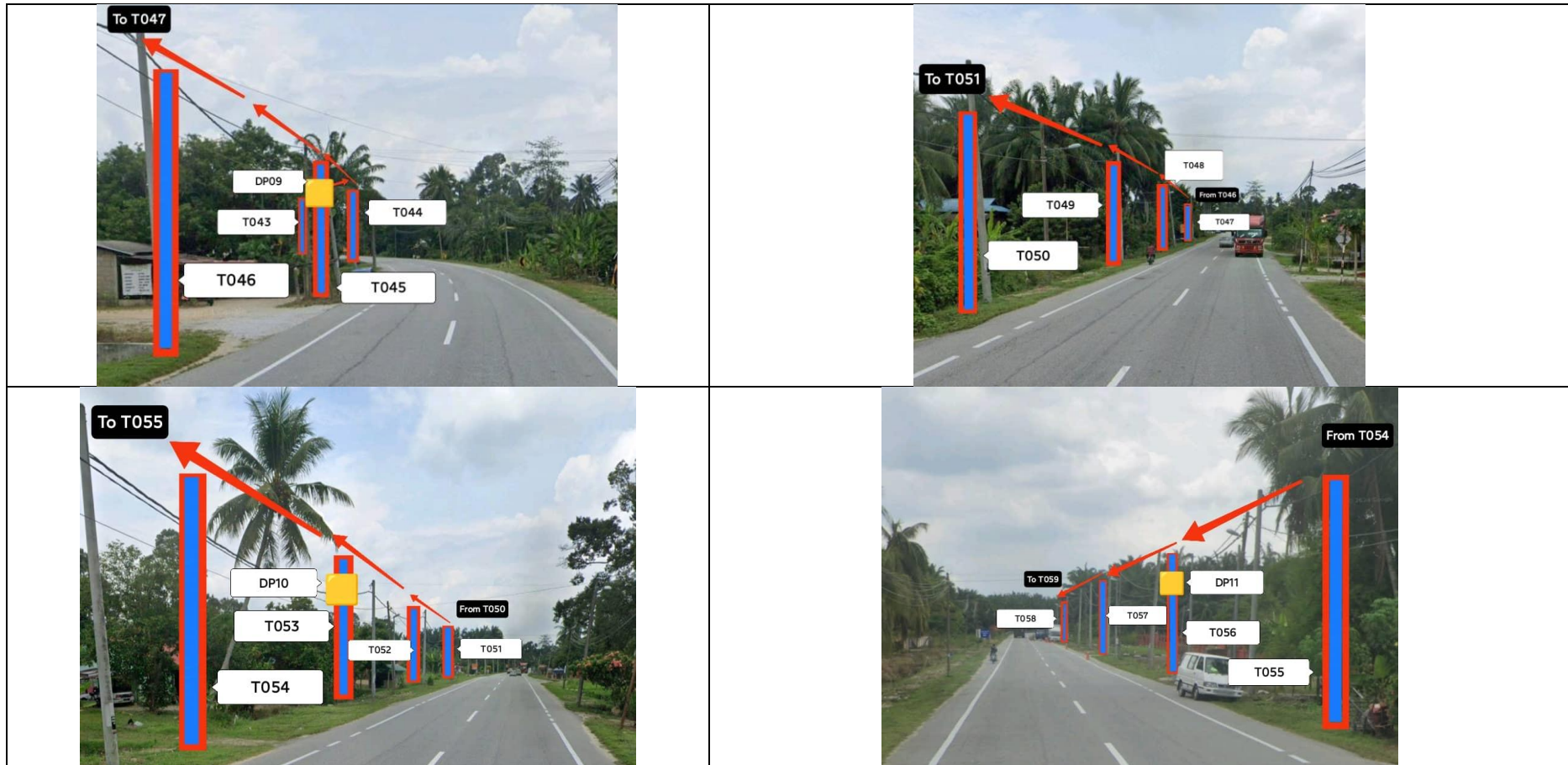


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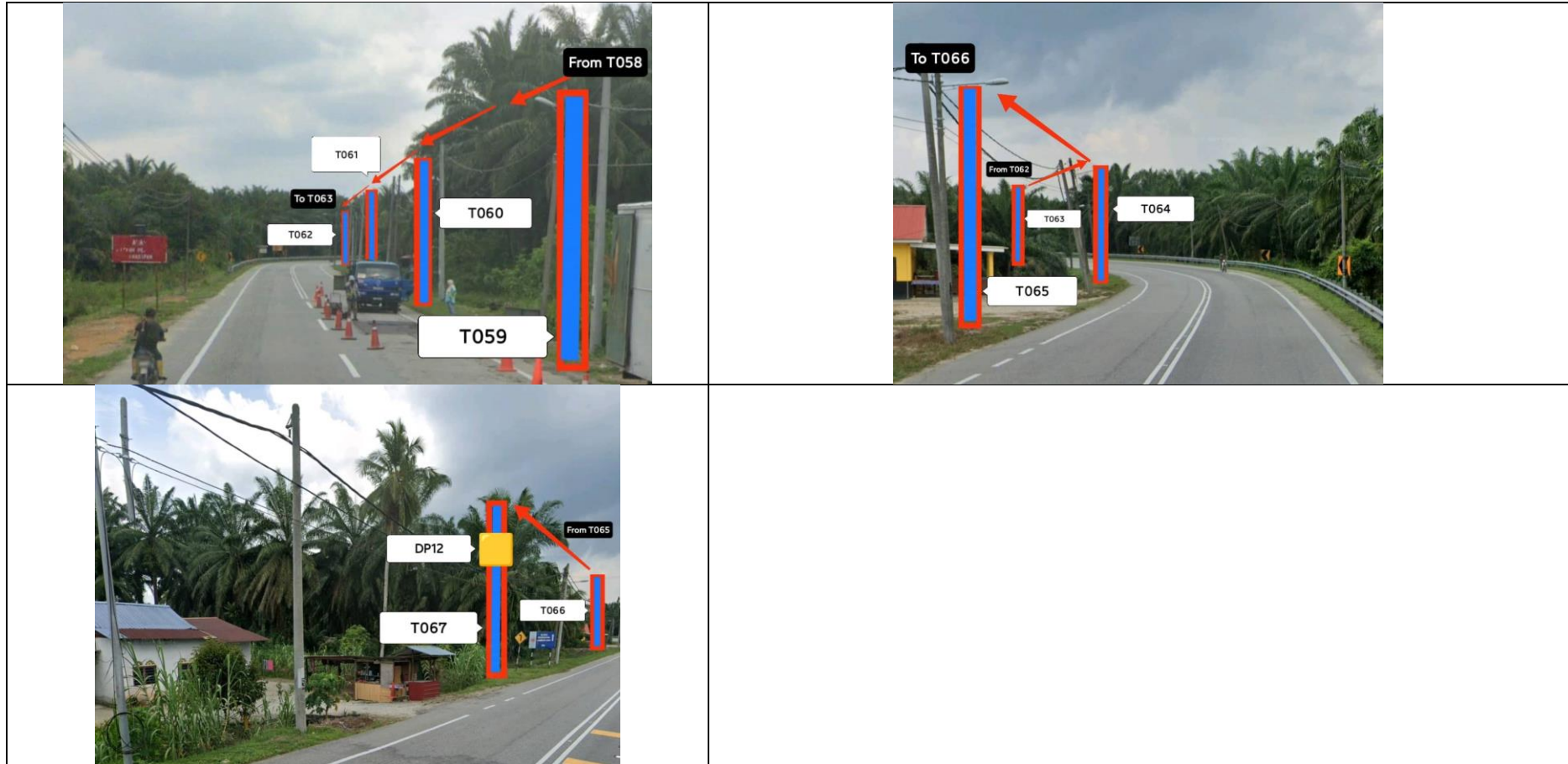


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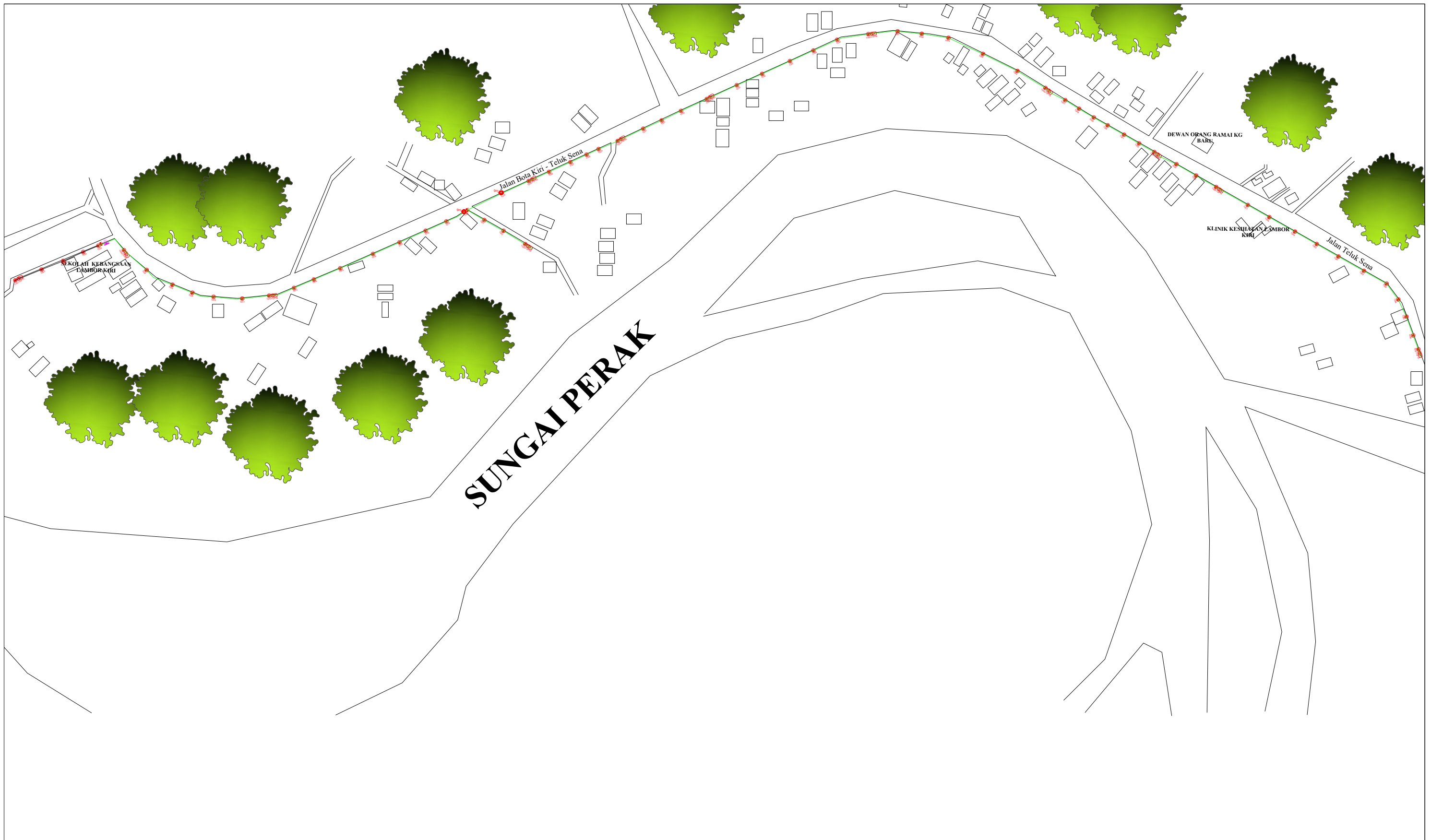


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3rd Parties Dependencies

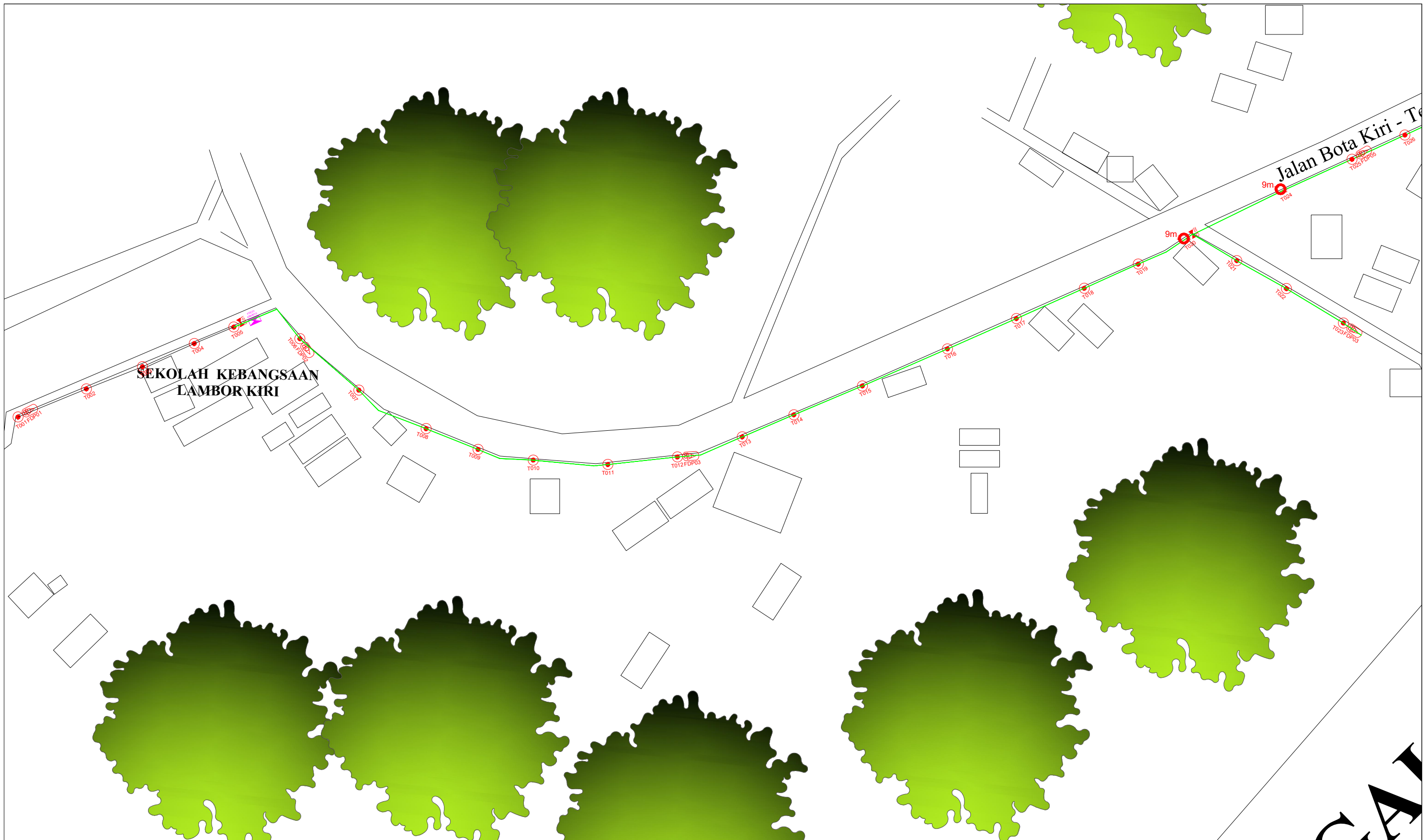
No.	Local Council/ Authority	Remark
1	JKR Perak	
2	Majlis Daerah Perak Tengah	
3		
4		
5		
6		



LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.			
	12C FOC	Installed 1:4 / 1:8 / 1:32 splitter		Installed Pole (9m)		Suspension		New Manhole (PIT)		Micro-Trenching (Meter)		MH NO.
	24C FOC	Installed Patch Cord		Installed Pole (7.5M)		Tension		New Manhole(JRC7)		Temporary Infra (Meter)		Existing TNB Pole NO.
	48C FOC	FDC		Installed Pole (6.7M)		Pole Ring		FDP Boundary		Loop / Coil (Meter)		New Pole NO.
	96C FOC	Closure		Existing TNB Pole		FDP with (1:8) splitter		HDD (Meter)		Active Outdoor Cabinet		Closure NO.
	144C FOC	Existing Closure		Installed Riser		Existing Manhole		Open Cut (Meter)		FDC NO.		FDP NO.

ACTUAL HOMEPASS :

<p>KEY PLAN :</p> <p>POP2 PROJECT IN PERAK</p>	<p>OWNER/DEVELOPOR :</p> <p>APEX COMMUNICATIONS SDN BHD 12th FLOOR, MENARA HAP SENG, 50250 JALAN P. RAMLEE KUALA LUMPUR</p>	<p>MAIN CONTRACTOR :</p> <p>WCWL COMMUNICATIONS SDN BHD 127, JALAN PUJI 3/3, TAMAN PUNCAK JALIL, BANDAR PUTRA PERMAI, 43500 SERI KEMBANGAN, SELANGOR TEL: +603 5888 5983 E-MAIL: info@wcwlcommunications.com.my WEBSITE: https://wcwl.com.my</p>	<p>PROJECT TITLE :</p> <p>CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT</p>	<p>DRAWING TITLE:</p> <p>AS - BUILT DRAWING SITE PLAN DRAWING ABA8213 SEKOLAH KEBANGSAAN LAMBOR KIRI</p>	<p>Design By : ENGINEER</p>	<p>Date : FEB 2025</p>
					<p>Drawn By : ENGINEER</p>	<p>Scale : NOT TO SCALE</p>
<p>PROJECT PHASE: POP 2</p>					<p>Checked By : ENGINEER</p>	<p>Job Number :</p>
<p>DRAWING NUMBER : ABA8228 - ABD - 01</p>					<p>THIS PRINT AND ITS COPYRIGHT ARE THE PROPERTY OF APEX COMMUNICATIONS SDN BHD</p>	<p>Sheet : 1/4</p>
					<p>Size : A3</p>	



LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.		
12C FOC		Installed 1:4 / 1:8 / 1:32 splitter	9m	Installed Pole (9m)	S	Suspension	UB30	New Manhole (PIT)	Micro-Trenching (Meter)	MH1	MH NO.
24C FOC	2797	Installed Patch Cord	7.5M	Installed Pole (7.5M)	T	Tension	C7	New Manhole(JRC7)	Temporary Infra (Meter)	TKS-1	Existing TNB Pole NO.
48C FOC		FDC	6.7M	Installed Pole (6.7M)	Pole Ring			FDP Boundary	Loop / Coil (Meter)	P001	New Pole NO.
96C FOC		Closure	4	Existing TNB Pole	FDP with (1:8) splitter	17		HDD (Meter)	Active Outdoor Cabinet	CL01	Closure NO.
144C FOC		Existing Closure		Installed Riser	Existing Manhole			Open Cut (Meter)	FDC NO.	DP1	FDP NO.

KEY PLAN :	OWNER/DEVELOPOR :	MAIN CONTRACTOR :	PROJECT TITLE :	DRAWING TITLE:	Design By : ENGINEER	Date : FEB 2025
POP2 PROJECT IN PERAK			CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT	AS - BUILT DRAWING SITE PLAN DRAWING ABA8213 SEKOLAH KEBANGSAAN LAMBOR KIRI	Drawn By : ENGINEER	Scale : NOT TO SCALE
	APEX COMMUNICATIONS SDN BHD 12th FLOOR, MENARA HAP SENG, 50250 JALAN P. RAMLEE KUALA LUMPUR	WCWL COMMUNICATIONS SDN BHD 127, JALAN PUJI 3/3, TAMAN PUNCAK JALIL, BANDAR PUTRA PERMAI, 43500 SERI KEMBANGAN, SELANGOR TEL: +603 6888 5983 E-MAIL: info@wcwcommunications.com.my WEBSITE: https://wcwl.com.my		PROJECT PHASE: POP 2	Checked By : ENGINEER	Job Number :
					DRAWING NUMBER : ABA8228 - ABD - 01A	Sheet : 2/4
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ACTUAL HOMEPASS :




LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.		
12C FOC		Installed 1:4 / 1:8 / 1:32 splitter	90	Installed Pole (9m)	S	Suspension	UB30	New Manhole (PIT)	Micro-Trenching (Meter)	MH1	MH NO.
24C FOC	2797	Installed Patch Cord	90	Installed Pole (7.5M)	T	Tension	C7	New Manhole(JRC7)	Temporary Infra (Meter)	TKS-1	Existing TNB Pole NO.
48C FOC		FDC	1	Installed Pole (6.7M)	SR	Pole Ring		FDP Boundary	Loop / Coil (Meter)	P001	New Pole NO.
96C FOC		Closure	4	Existing TNB Pole	SP	FDP with (1:8) splitter	17	HDD (Meter)	#	CL01	Closure NO.
144C FOC		Existing Closure		Installed Riser	MR	Existing Manhole		Open Cut (Meter)	C01	DP1	FDP NO.

ACTUAL HOMEPASS :

KEY PLAN :
POP2 PROJECT IN PERAK

OWNER/DEVELOPOR :



APEX COMMUNICATIONS SDN BHD
12th FLOOR, MENARA HAP SENG,
50250 JALAN P. RAMLEE
KUALA LUMPUR

MAIN CONTRACTOR :



WCWL COMMUNICATIONS SDN BHD
127, JALAN PUJI 3/3, TAMAN PUNCAK JALIL,
BANDAR PUTRA PERMAI,
43300 SERI KEMBANGAN, SELANGOR
TEL: +603 5888 5983
E-MAIL: info@wcwcommunications.com.my
WEBSITE: https://wcwl.com.my

PROJECT TITLE :
CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT

DRAWING TITLE:
AS - BUILT DRAWING SITE PLAN DRAWING ABA8213 SEKOLAH KEBANGSAAN LAMBOR KIRI

PROJECT PHASE:
POP 2

Design By : ENGINEER
Date : FEB 2025

Drawn By : ENGINEER
Scale : NOT TO SCALE

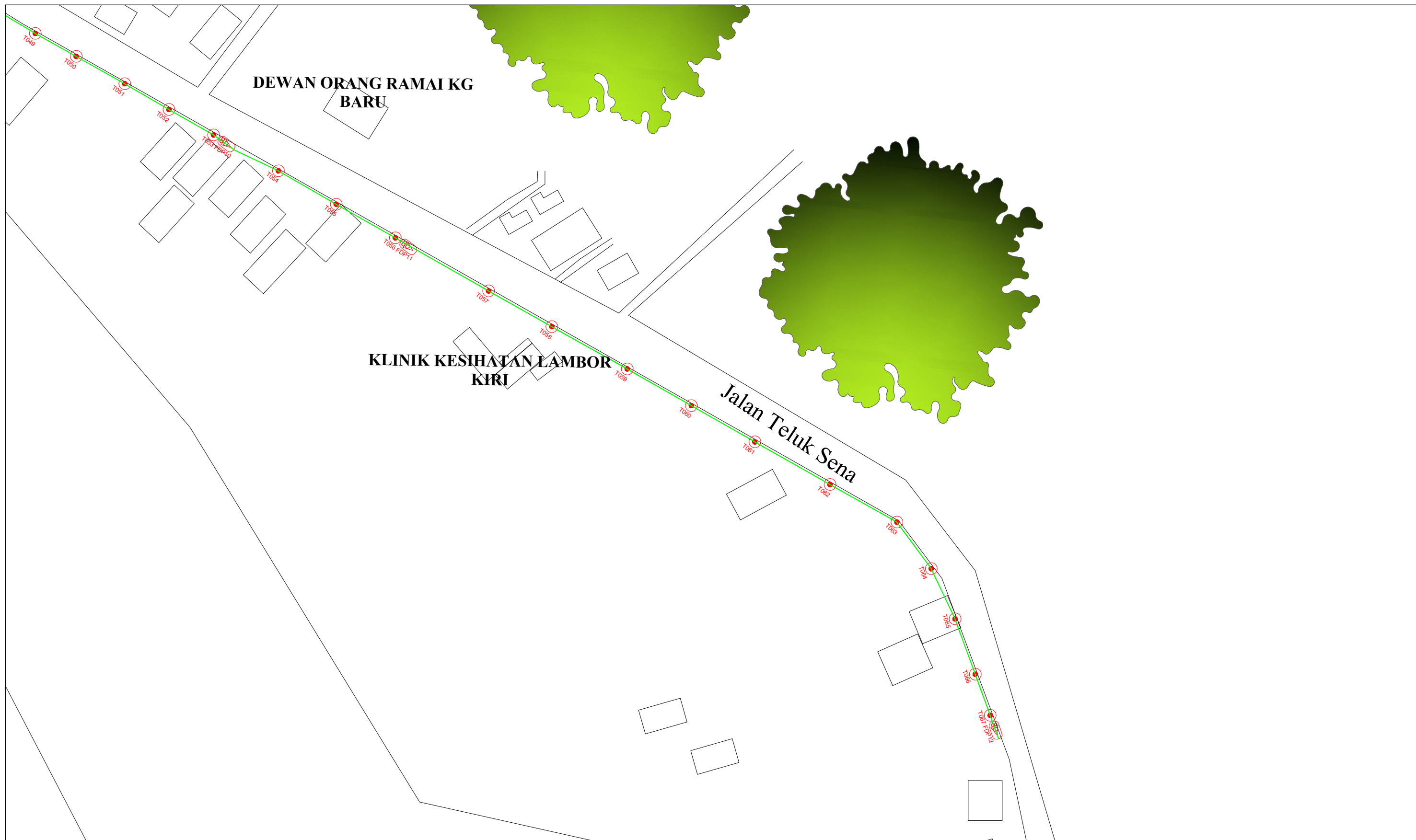
Checked By : ENGINEER
Job Number :

DRAWING NUMBER :
ABA8228 - ABD - 01B

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Sheet :
3/4

Size :
A3



LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.		
12C FOC		Installed 1:4 / 1:8 / 1:32 splitter	9m	Installed Pole (9m)	S	Suspension	JB30	New Manhole (PIT)	Micro-Trenching (Meter)	MH1	MH NO.
24C FOC	2797	Installed Patch Cord	7.5M	Installed Pole (7.5M)	T	Tension	C7	New Manhole(JRC7)	Temporary Infra (Meter)	TKS-1	Existing TNB Pole NO.
48C FOC		FDC	6.7M	Installed Pole (6.7M)	PR	Pole Ring		FDP Boundary	Loop / Coil (Meter)	P001	New Pole NO.
96C FOC		Closure		Existing TNB Pole	SP	FDP with (1:8) splitter	17	HDD (Meter)	#	CL01	Closure NO.
144C FOC		Existing Closure		Installed Riser	OM	Existing Manhole		Open Cut (Meter)	C01	DP1	FDP NO.

ACTUAL HOMEPASS :

<p>KEY PLAN :</p> <p>POP2 PROJECT IN PERAK</p>	<p>OWNER/DEVELOPOR :</p>  <p>APEX COMMUNICATIONS SDN BHD 12th FLOOR, MENARA HAP SENG, 50250 JALAN P. RAMLEE KUALA LUMPUR</p>	<p>MAIN CONTRACTOR :</p>  <p>WCWL COMMUNICATIONS SDN BHD 127, JALAN PUI 3/3, TAMAN PUNCAK JALIL, BANDAR PUTRA PERMAI, 43500 SERI KEMBANGAN, SELANGOR TEL: +603 5888 5983 E-MAIL: info@wcwcommunications.com.my WEBSITE: https://wcwl.com.my</p>	<p>PROJECT TITLE :</p> <p>CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT</p>	<p>DRAWING TITLE:</p> <p>AS - BUILT DRAWING SITE PLAN DRAWING ABA8213 SEKOLAH KEBANGSAAN LAMBOR KIRI</p>	<p>Design By : ENGINEER</p>	<p>Date : FEB 2025</p>
					<p>Drawn By : ENGINEER</p>	<p>Scale : NOT TO SCALE</p>
<p>PROJECT PHASE: POP 2</p>					<p>Checked By : ENGINEER</p>	<p>Job Number :</p>
<p>DRAWING NUMBER : ABA8228 - ABD - 01C</p>					<p>THIS PRINT AND ITS COPYRIGHT ARE THE PROPERTY OF APEX COMMUNICATIONS SDN BHD</p>	<p>Sheet : 4/4</p>
					<p>Size : A3</p>	