

## TECHNICAL PROPOSAL

### POP2 ABA8231 SEKOLAH KEBANGSAAN RAJA CHULAN (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	:	18/02/2025



POINT A

POINT B

#### Starting Point

Site / Boundary Name	:	SEKOLAH KEBANGSAAN RAJA CHULAN
Address	:	14, Jalan Setia 1
District	:	Kampung Gajah
Postcode	:	36800
State	:	Perak
GPS Coordinate	:	4.227349, 100.925321
LRD	:	A

#### End Point

Site / Boundary Name	:	SEKOLAH KEBANGSAAN RAJA CHULAN
Address	:	Kampung Raja Chulan
District	:	Kampung Gajah
Postcode	:	36800
State	:	Perak
GPS Coordinate	:	4.219636, 100.926777
	:	B



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))



### Work Summary

No	Proposed Distance and Method	Unit	Qty
1	Horizontal Directional Drilling (HDD)	m	65.6
2	Carriage Way Open trench (CW)	m	0
3	Grass Verge Open Trenching (GV)	m	0
4	Micro trenching (MT)	m	0
	Total		65.6

	Other Information	Unit	Qty
1	Proposed Manhole	EA	0
2	Proposed Pole	EA	65
3	Joint Closure	EA	3
4	Estimated time required for completion	days	30



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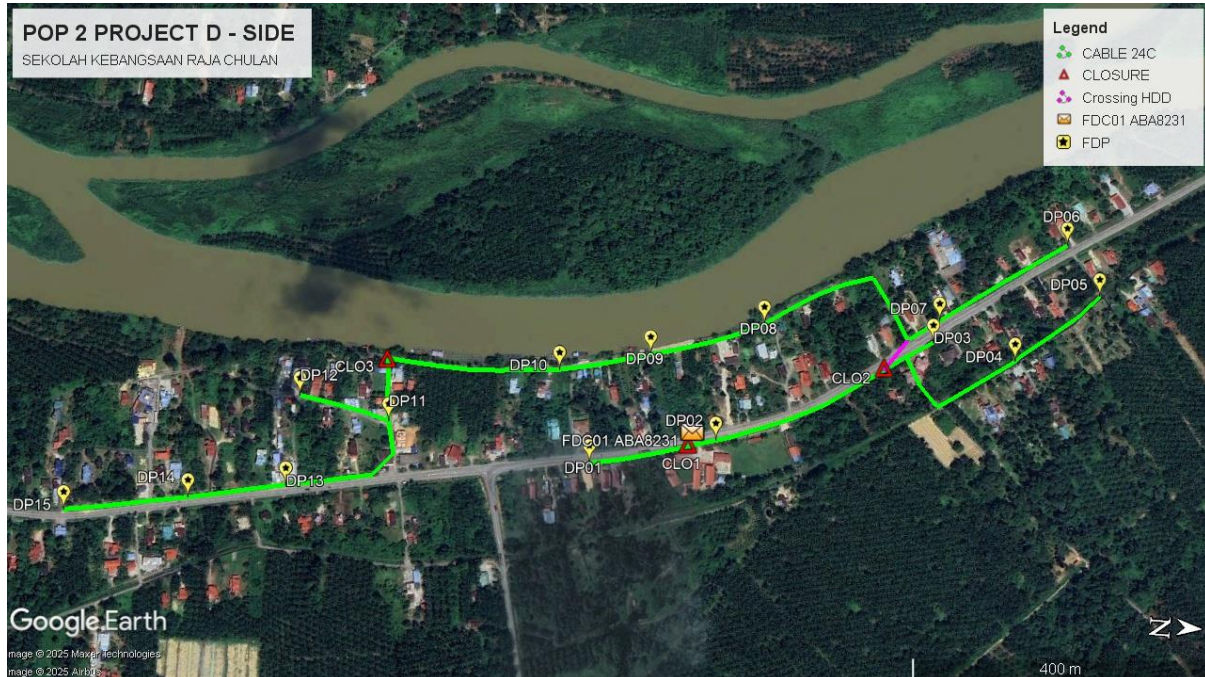
### Local Authority Summary

#### 1. Perak Tengah

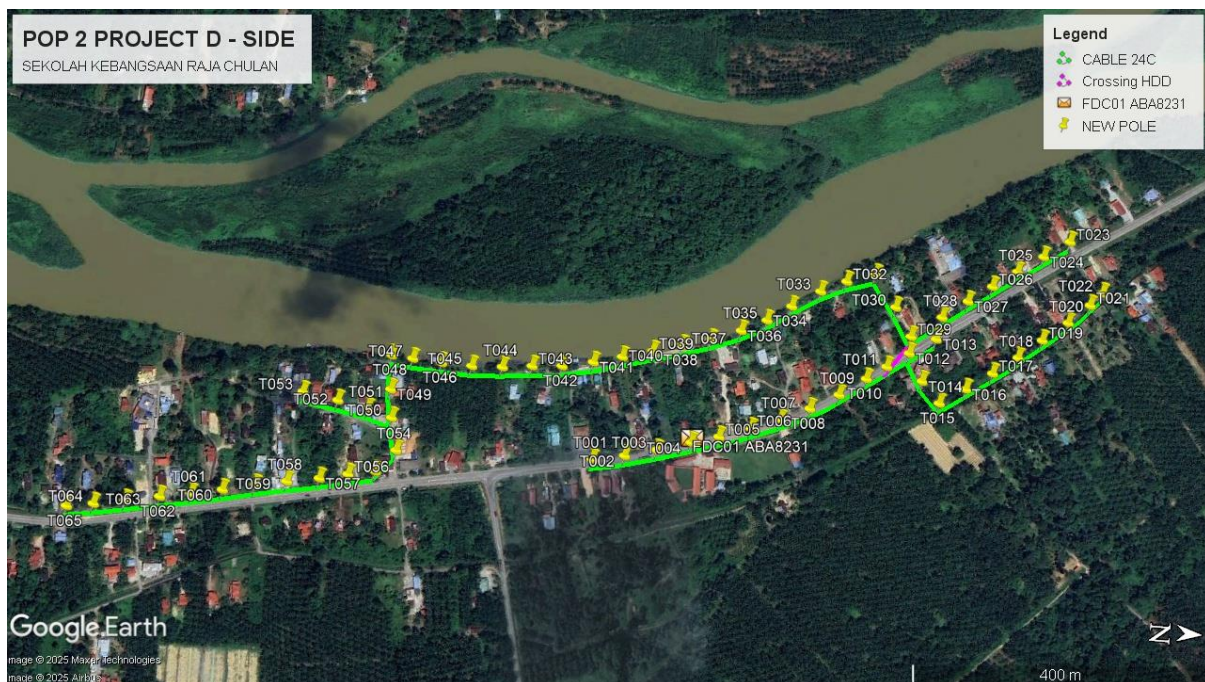
Bil	Items	Owner	Quantity	Distance
1	HDD	JKR	1	65.6m
		Majlis	-	-
		Estate / Private Land	-	-
2	New Pole	JKR	30	1350m
		Majlis	35	1575m
		Estate / Private Land	-	-
3	Existing TNB Pole	JKR	-	-
		Majlis	-	-
		Estate / Private Land	-	-
Total				2990.6m

Site Plan – KMZ (Overview site area)

Proposed FDP and Closure



Proposed New Pole

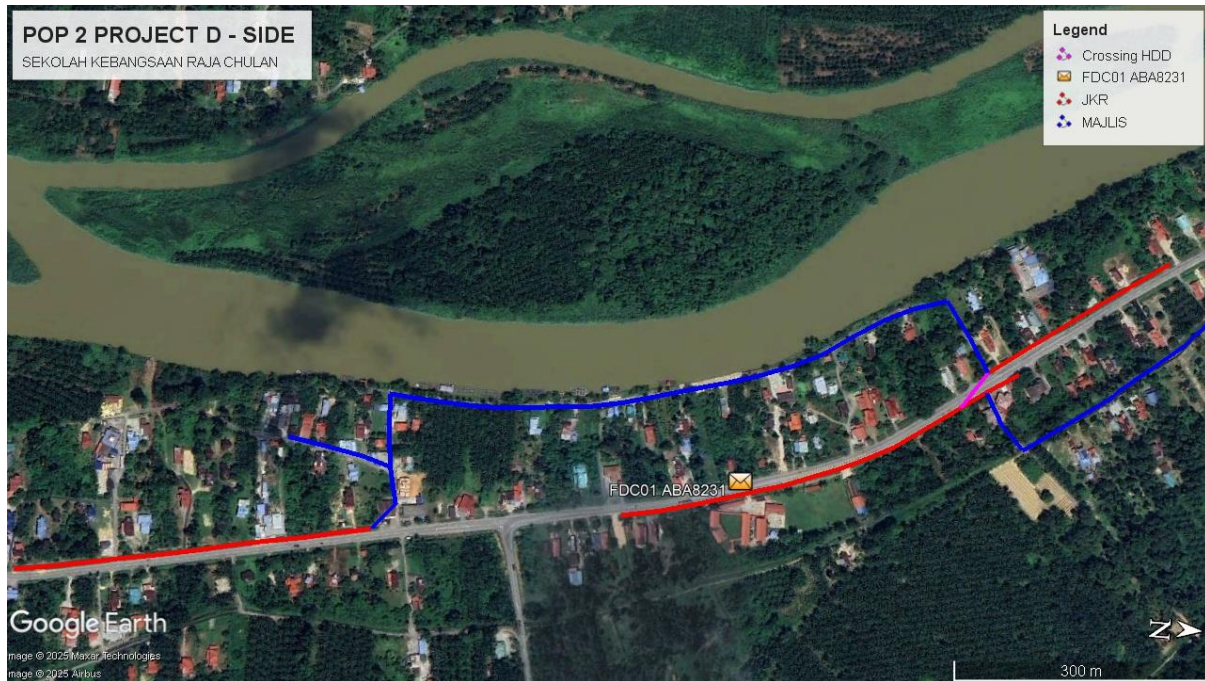




PROJEK PENYEDIAAN DAN PENYELENGGARAAN POINT OF PRESENSE (POP) FASA 2: HUB INFRASTRUKTUR GENTIAN OPTIK BERHAMPIRAN DENGAN SEKOLAH, KAWASAN PERINDUSTRIAN, PREMIS KERAJAAN DAN KOMUNITI SEKITARNYA OLEH KEMENTERIAN KOMUNIKASI MALAYSIA - ZON UTARA (KKMM.400-11/17/132(1))



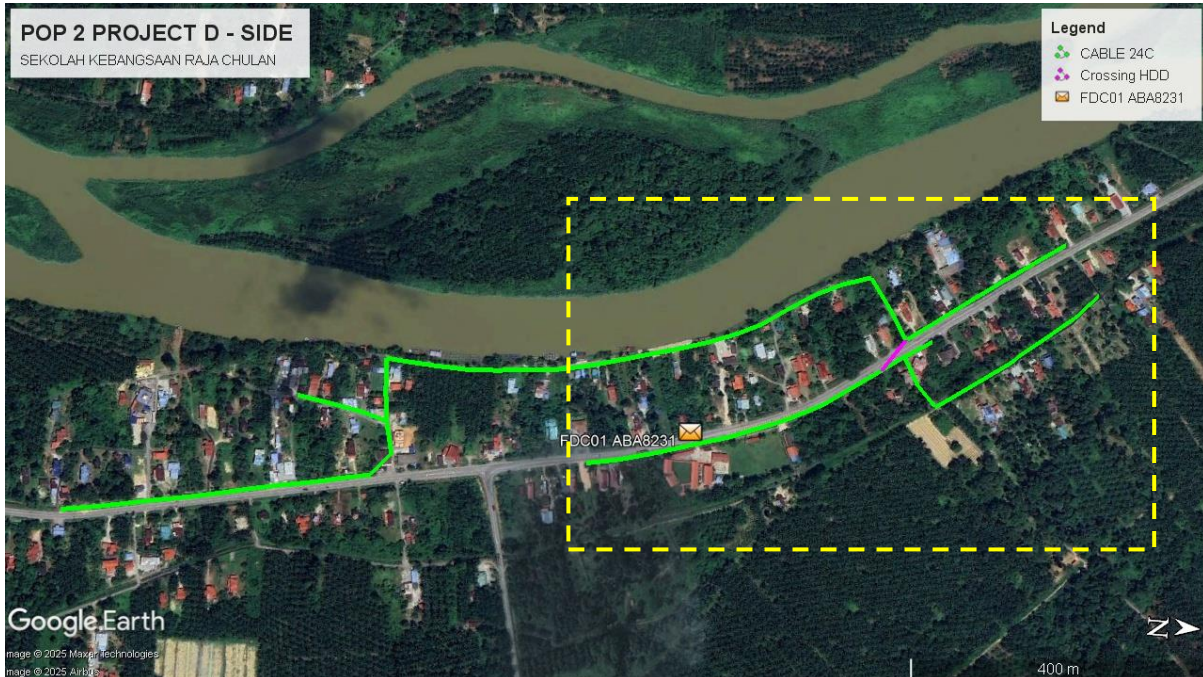
**Site Plan – KMZ Routing (All Local Authority)**



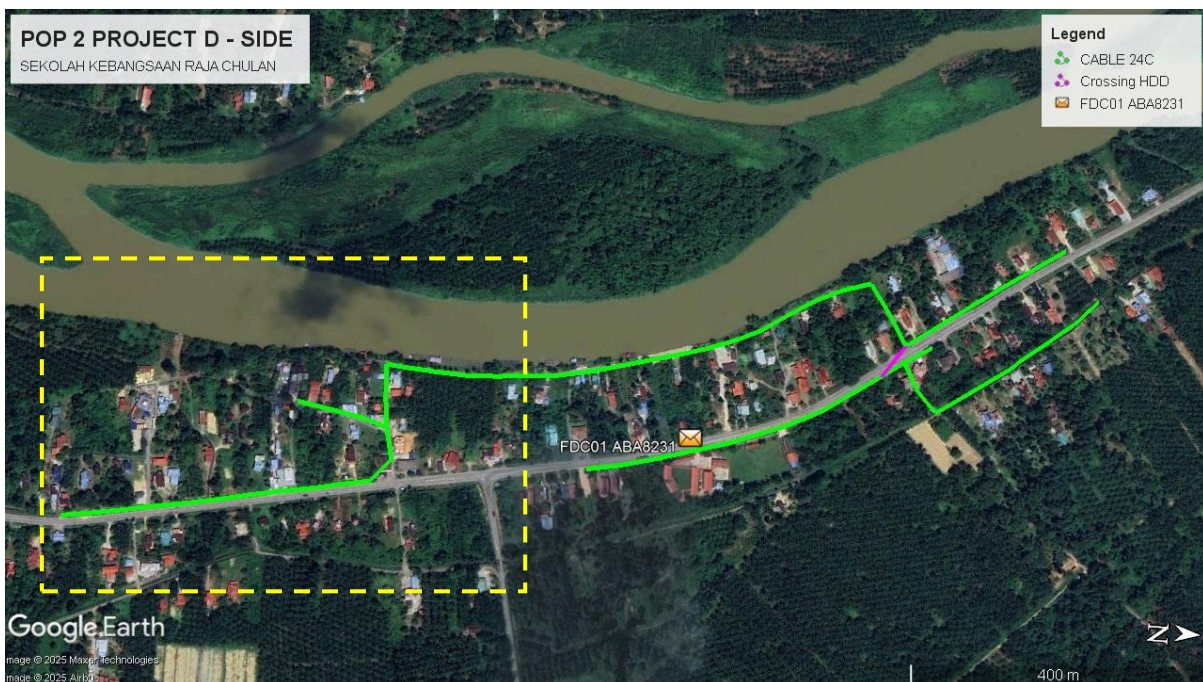
**Blue Colour – Majlis Daerah Perak Tengah**

**Red Colour – JKR Perak**

**Route 1**



**Route 2**





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 (Prop New Manhole)

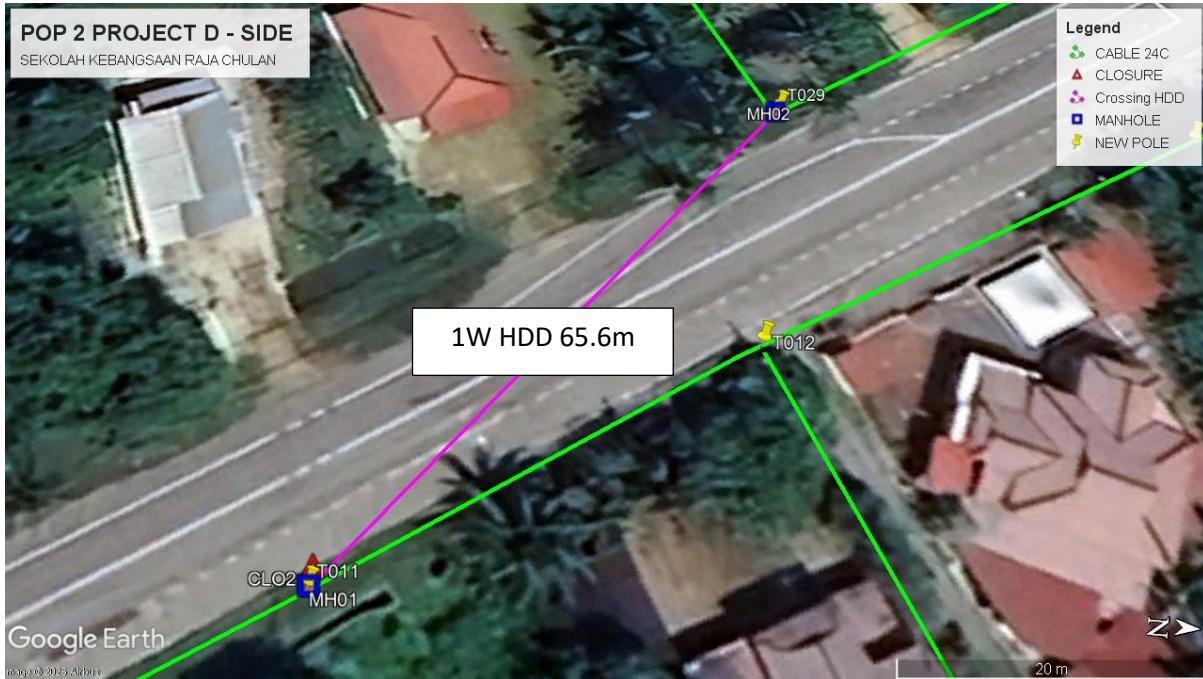


Figure 1: Location 1 (MH1- 4.229687, 100.924173) (MH2- 4.229967, 100.923769)



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))



**Proposed New Pole Lat & Long Table**

No.	Pole Number	Distance	Latitude	Longitude	Local Authority
1	FDC01 ABA8231	0	4.227349	100.925321	JKR Perak
2	T001	45	4.226086	100.925647	JKR Perak
3	T002	45	4.226486	100.925568	JKR Perak
4	T003	45	4.226877	100.925462	JKR Perak
5	T004	45	4.227299	100.925333	JKR Perak
6	T005	45	4.227642	100.925232	JKR Perak
7	T006	45	4.228031	100.925095	JKR Perak
8	T007	45	4.228392	100.924954	JKR Perak
9	T008	45	4.228752	100.924783	JKR Perak
10	T009	45	4.229107	100.924577	JKR Perak
11	T010	45	4.229437	100.924347	JKR Perak
12	T011	45	4.229685	100.924172	JKR Perak
13	T012 (9m)	45	4.229958	100.923977	JKR Perak
14	T013 (9m)	45	4.230288	100.923767	JKR Perak
15	T014	45	4.230136	100.924319	Majlis Daerah Perak Tengah
16	T015 (9m)	45	4.230366	100.924577	Majlis Daerah Perak Tengah
17	T016 (9m)	45	4.230689	100.924372	Majlis Daerah Perak Tengah
18	T017	45	4.231017	100.924143	Majlis Daerah Perak Tengah
19	T018	45	4.231328	100.923918	Majlis Daerah Perak Tengah
20	T019	45	4.231624	100.923670	Majlis Daerah Perak Tengah
21	T020	45	4.231942	100.923419	Majlis Daerah Perak Tengah
22	T021	45	4.232212	100.923169	Majlis Daerah Perak Tengah
23	T022	45	4.232365	100.923000	Majlis Daerah Perak Tengah
24	T023	45	4.231929	100.922369	JKR Perak
25	T024	45	4.231602	100.922593	JKR Perak
26	T025	45	4.231276	100.922815	JKR Perak
27	T026	45	4.230968	100.923034	JKR Perak
28	T027 (9m)	45	4.230667	100.923251	JKR Perak
29	T028 (9m)	45	4.230349	100.923483	JKR Perak
30	T029 (9m)	45	4.229968	100.923762	JKR Perak
31	T030 (9m)	45	4.229757	100.923404	Majlis Daerah Perak Tengah
32	T031 (9m)	45	4.229480	100.923004	Majlis Daerah Perak Tengah
33	T032 (9m)	45	4.229117	100.923125	Majlis Daerah Perak Tengah
34	T033	45	4.228796	100.923282	Majlis Daerah Perak Tengah
35	T034 (9m)	45	4.228441	100.923505	Majlis Daerah Perak Tengah
36	T035 (9m)	45	4.228142	100.923711	Majlis Daerah Perak Tengah
37	T036	45	4.227825	100.923871	Majlis Daerah Perak Tengah
38	T037	45	4.227451	100.924016	Majlis Daerah Perak Tengah



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39	T038	45	4.227098	100.924122	Majlis Daerah Perak Tengah
40	T039	45	4.226731	100.924225	Majlis Daerah Perak Tengah
41	T040	45	4.226354	100.924331	Majlis Daerah Perak Tengah
42	T041 (9m)	45	4.225997	100.924429	Majlis Daerah Perak Tengah
43	T042 (9m)	45	4.225608	100.924512	Majlis Daerah Perak Tengah
44	T043	45	4.225232	100.924545	Majlis Daerah Perak Tengah
45	T044	45	4.224859	100.924589	Majlis Daerah Perak Tengah
46	T045	45	4.224474	100.924609	Majlis Daerah Perak Tengah
47	T046	45	4.224091	100.924600	Majlis Daerah Perak Tengah
48	T047	45	4.223723	100.924578	Majlis Daerah Perak Tengah
49	T048 (9m)	45	4.223453	100.924558	Majlis Daerah Perak Tengah
50	T049 (9m)	45	4.223489	100.924989	Majlis Daerah Perak Tengah
51	T050 (9m)	45	4.223226	100.925254	Majlis Daerah Perak Tengah
52	T051	45	4.223537	100.925344	Majlis Daerah Perak Tengah
53	T052	45	4.222842	100.925184	Majlis Daerah Perak Tengah
54	T053	45	4.222393	100.925112	Majlis Daerah Perak Tengah
55	T054 (9m)	45	4.223637	100.925745	Majlis Daerah Perak Tengah
56	T055	45	4.223408	100.926027	JKR Perak
57	T056	45	4.223073	100.926091	JKR Perak
58	T057 (9m)	45	4.222724	100.926172	JKR Perak
59	T058 (9m)	45	4.222325	100.926244	JKR Perak
60	T059	45	4.221938	100.926323	JKR Perak
61	T060 (9m)	45	4.221539	100.926415	JKR Perak
62	T061 (9m)	45	4.221154	100.926494	JKR Perak
63	T062 (9m)	45	4.220772	100.926564	JKR Perak
64	T063 (9m)	45	4.220352	100.926649	JKR Perak
65	T064	45	4.219964	100.926721	JKR Perak
66	T065	45	4.219636	100.926777	JKR Perak

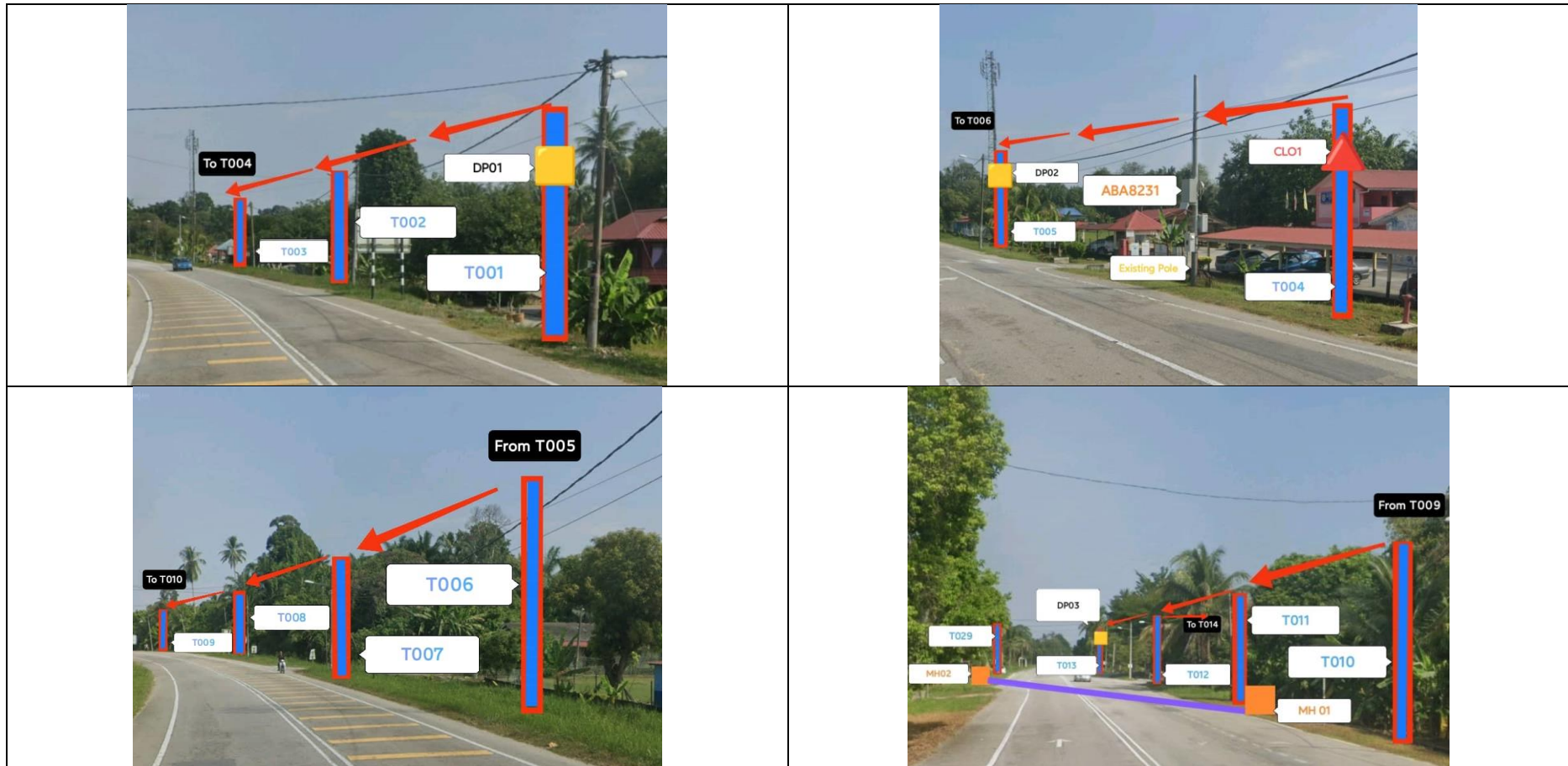
Bil	Type	7.5m	9m	Total
1	No Of Pole	41	24	65



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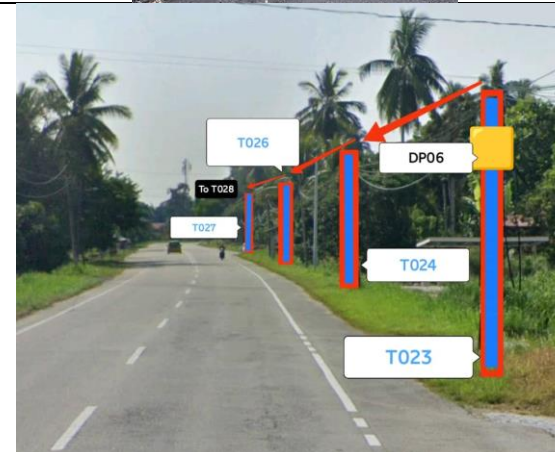
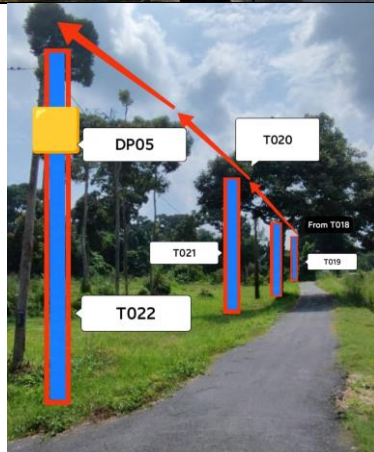
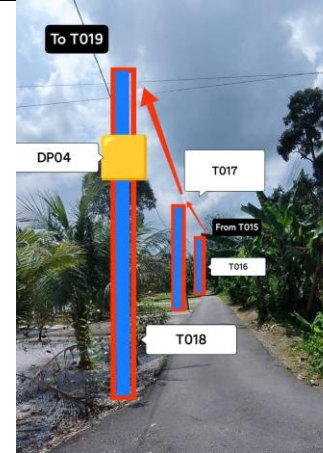


Site Photos – Proposed to install pole 7.5m



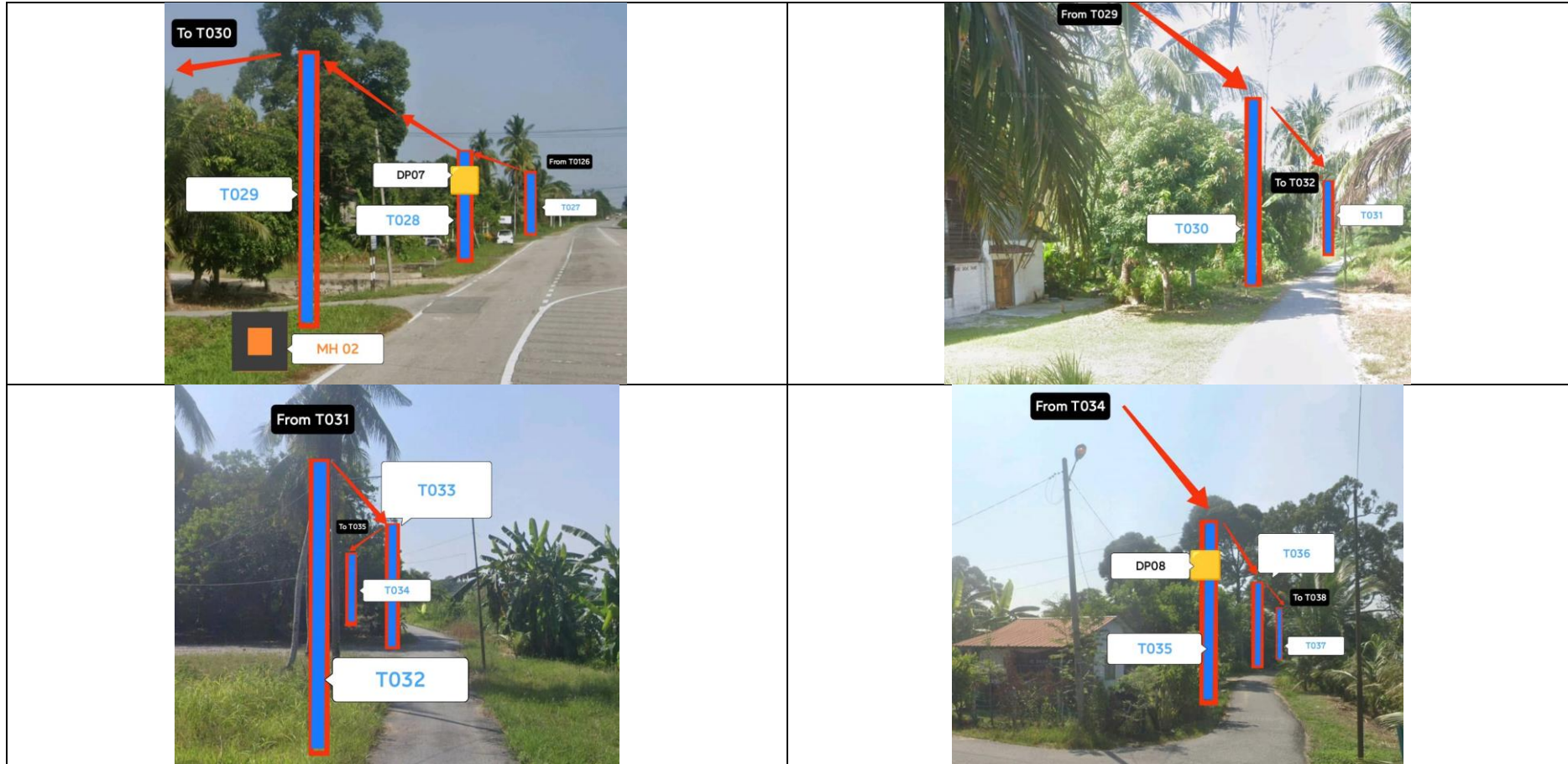


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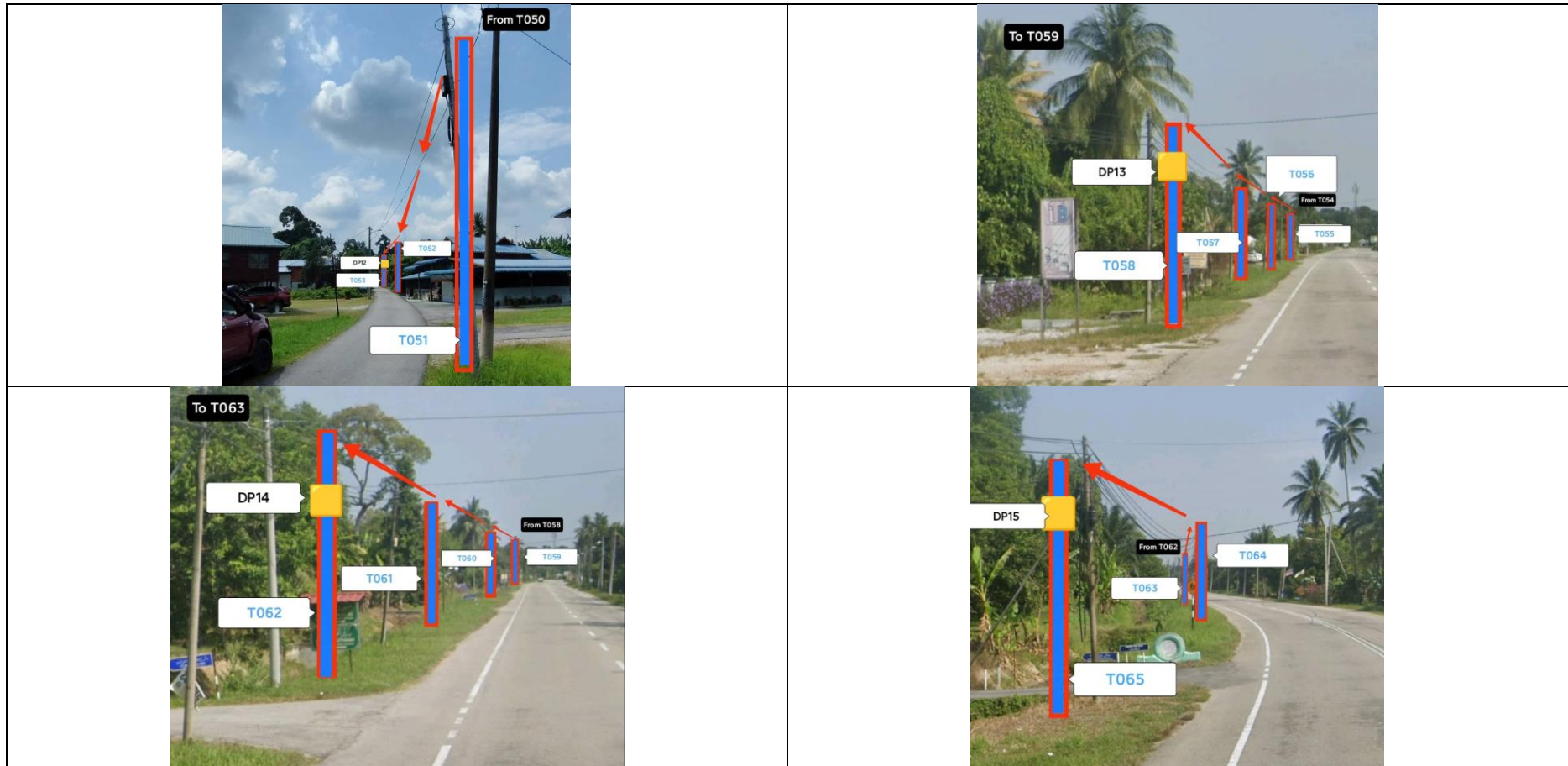




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3rd Parties Dependencies

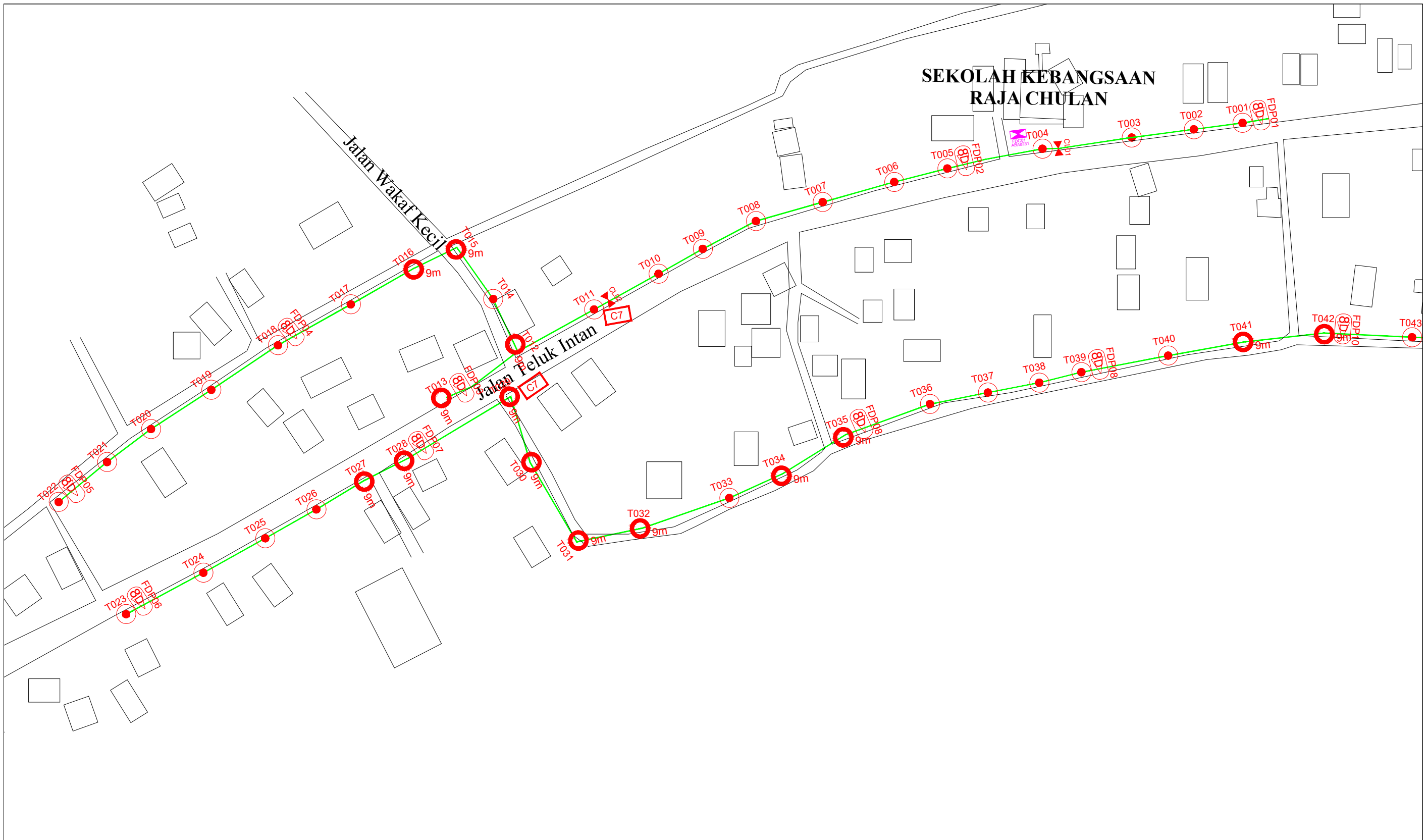
No.	Local Council/ Authority	Remark
1	JKR Perak	
2	Majlis Daerah Perak Tengah	
3		
4		
5		
6		



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)		MH1	MH NO.	
	24C FOC	Installed Patch Cord	2797		Installed Pole (7.5M)	90		Tension		New Manhole(JRC7)		TKS-1	Existing TNB Pole NO.	
	48C FOC		FDC	1		Installed Pole (6.7M)		Pole Ring		FDP Boundary		P001	New Pole NO.	
	96C FOC		Closure	4		Existing TNB Pole		FDP with (1:8) splitter	17		HDD (Meter)		CL01	Closure NO.
	144C FOC		Existing Closure			Installed Riser		Existing Manhole			Open Cut (Meter)		DP1	FDP NO.

ACTUAL HOMEPASS :

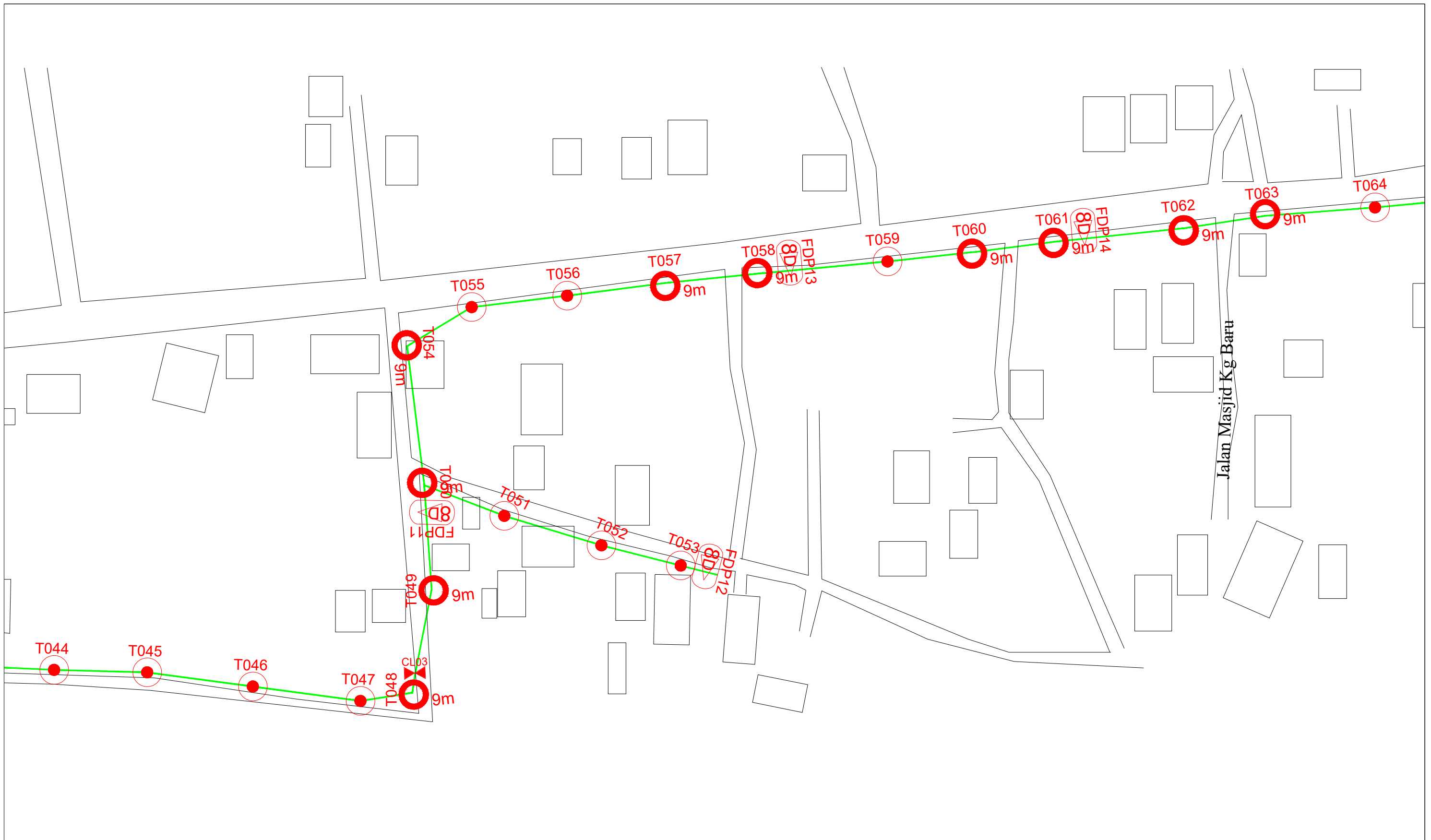
<p>KEY PLAN :</p> <p><b>POP2 PROJECT IN PERAK</b></p>	<p>OWNER/DEVELOPOR :</p> <p>APEX COMMUNICATIONS SDN BHD 12th FLOOR, MENARA HAP SENG, 50250 JALAN P. RAMLEE KUALA LUMPUR</p>	<p>MAIN CONTRACTOR :</p> <p>WCWL COMMUNICATIONS SDN BHD 127, JALAN PUI 3/3, TAMAN PUNCAK JALIL, BANDAR PUTRA PERMAI, 43300 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, &amp; PERMIT APPROVAL - POP2 PROJECT</p>	<p>DRAWING TITLE:</p> <p>AS - BUILT DRAWING SITE PLAN DRAWING ABA8231 SEKOLAH KEBANGSAAN RAJA CHULAN</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 : ABA8231 - ABD - 01</p>					<p>THIS PRINT AND ITS COPYRIGHT ARE THE PROPERTY OF APEX COMMUNICATIONS SDN BHD</p>	<p>Sheet : 1/3</p>
					<p>Size : A3</p>	



LEGEND	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)		MH1	MH NO.
24C FOC	2797	Installed Patch Cord		Installed Pole (7.5M)	90	Tension		New Manhole(JRC7)		Temporary Infra (Meter)		TKS-1	Existing TNB Pole NO.
48C FOC		FDC	1	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.

ACTUAL HOMEPASS :

<b>KEY PLAN :</b> POP2 PROJECT IN PERAK	<b>OWNER/DEVELOPOR :</b>  APEX COMMUNICATIONS SDN BHD 12th FLOOR, MENARA HAP SENG, 50250 JALAN P. RAMLEE KUALA LUMPUR	<b>MAIN CONTRACTOR :</b>  WCWL COMMUNICATIONS SDN BHD 127, JALAN PUU 3/3, TAMAN PUNCAK JAILU, BANDAR PUTRA PERAI, 43300 SERI KEMBANGAN, SELANGOR TEL: 4603 5888 5983 E-MAIL: info@wcwcommunications.com.my WEBSITE: https://wcwl.com.my	<b>PROJECT TITLE :</b> CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT	<b>DRAWING TITLE:</b> AS - BUILT DRAWING SITE PLAN DRAWING ABA8231 SEKOLAH KEBANGSAAN RAJA CHULAN	Design By : ENGINEER Date : FEB 2025
				<b>PROJECT PHASE:</b> POP 2	Drawn By : ENGINEER Scale : NOT TO SCALE Checked By : ENGINEER Job Number : DRAWING NUMBER : ABA8231 - ABD - 01A
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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)	
	24C FOC	Installed Patch Cord		Installed Pole (7.5M)		Tension		New Manhole(JRC7)		Temporary Infra (Meter)	
	48C FOC	FDC		Installed Pole (6.7M)		Pole Ring		FDP Boundary		Loop / Coil (Meter)	
	96C FOC	Closure		Existing TNB Pole		FDP with (1:8) splitter		HDD (Meter)		Active Outdoor Cabinet	
	144C FOC	Existing Closure		Installed Riser		Existing Manhole		Open Cut (Meter)		FDC NO.	
				CL03						MH1	MH NO.
										TKS-1	Existing TNB Pole NO.
										P001	New Pole NO.
										CL01	Closure NO.
										DP1	FDP NO.

ACTUAL HOMEPASS :

KEY PLAN :  <b>POP2 PROJECT IN PERAK</b>	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, 43500 SERI KEMBANGAN, SELANGOR TEL : +603 8888 5983 E-MAIL : info@wcwcommunications.com.my WEBSITE : https://wcwl.com.my	PROJECT TITLE :  <b>CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, &amp; PERMIT APPROVAL - POP2 PROJECT</b>	DRAWING TITLE:  <b>AS - BUILT DRAWING SITE PLAN DRAWING ABA8231 SEKOLAH KEBANGSAAN RAJA CHULAN</b>	Design By : ENGINEER	Date : FEB 2025
					Drawn By : ENGINEER	Scale : NOT TO SCALE
				PROJECT PHASE:  POP 2	Checked By : ENGINEER	Job Number :
					DRAWING NUMBER : ABA8231 - ABD - 01B	Sheet : 3/3
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