

TECHNICAL PROPOSAL POP2

ABA8211 SEKOLAH KEBANGSAAN SERIKAYA (D-SIDE)

Company Name	:	WCWL COMMUNICATIONS SDN BHD
Company Address	:	127, Jalan PUJ 3/3, Taman Puncak Jalil 43300 Subang Jaya Selangor
Prepared By	:	Nur Syahidah Izzatie
Date	:	16/12/2024



POINT A

POINT B

Starting Point

Site / Boundary Name	:	SEKOLAH KEBANGSAAN SERIKAYA
Address	:	Jalan Bota Kiri, Bota
District	:	Perak Tengah
Postcode	:	32600
State	:	Perak
GPS Coordinate	:	4.332796, 100.880255
LRD	:	A

End Point

Site / Boundary Name	:	SEKOLAH KEBANGSAAN SERIKAYA
Address	:	Jalan Bota Kiri, Bota
District	:	Perak Tengah
Postcode	:	32900
State	:	Perak
GPS Coordinate	:	4.346019, 100.876451
LRD	:	B



PROJEK PENYEDIAAN DAN PENYELENGGARAAN POINT OF PRESENCE (POP) FASA 2: HAB 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	60
2	Carriage Way Open trench (CW)	m	0
3	Grass Verge Open Trenching (GV)	m	0
4	Micro trenching (MT)	m	0
	Total		60

	Other Information	Unit	Qty
1	Proposed Manhole	EA	2
2	Proposed Pole	EA	80
3	Joint Closure	EA	4
4	Estimated time required for completion	days	30



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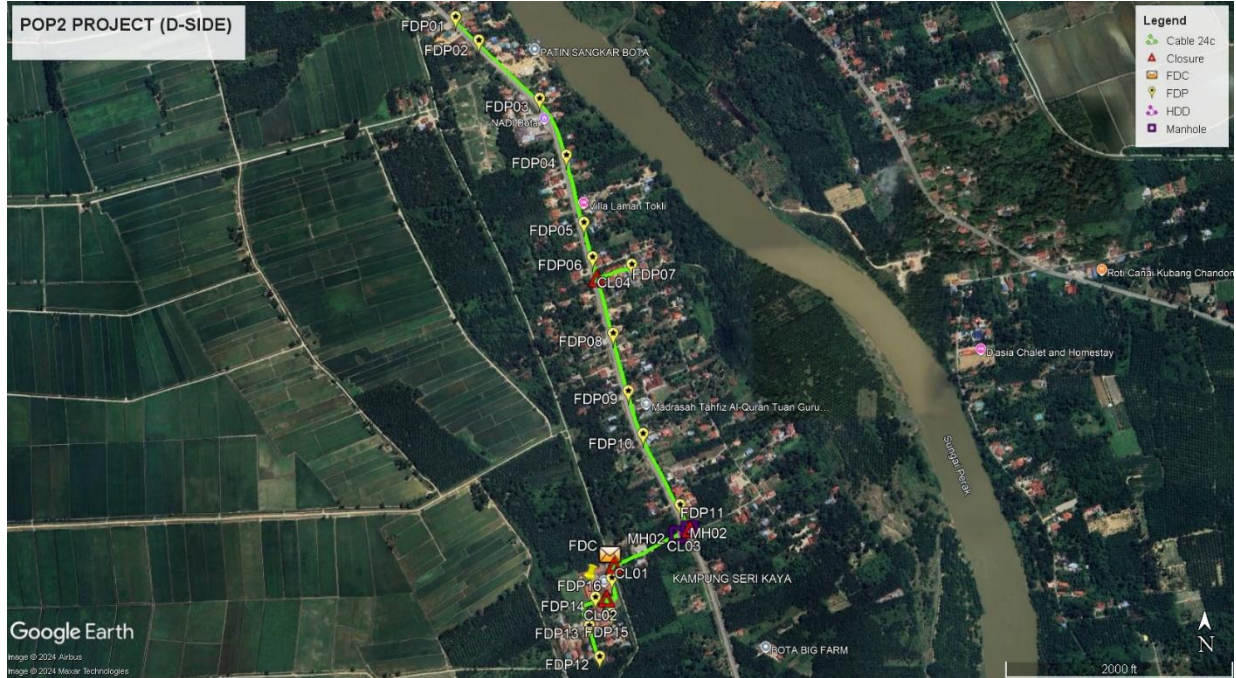
Local Authority Summary

1. Daerah Perak Tengah

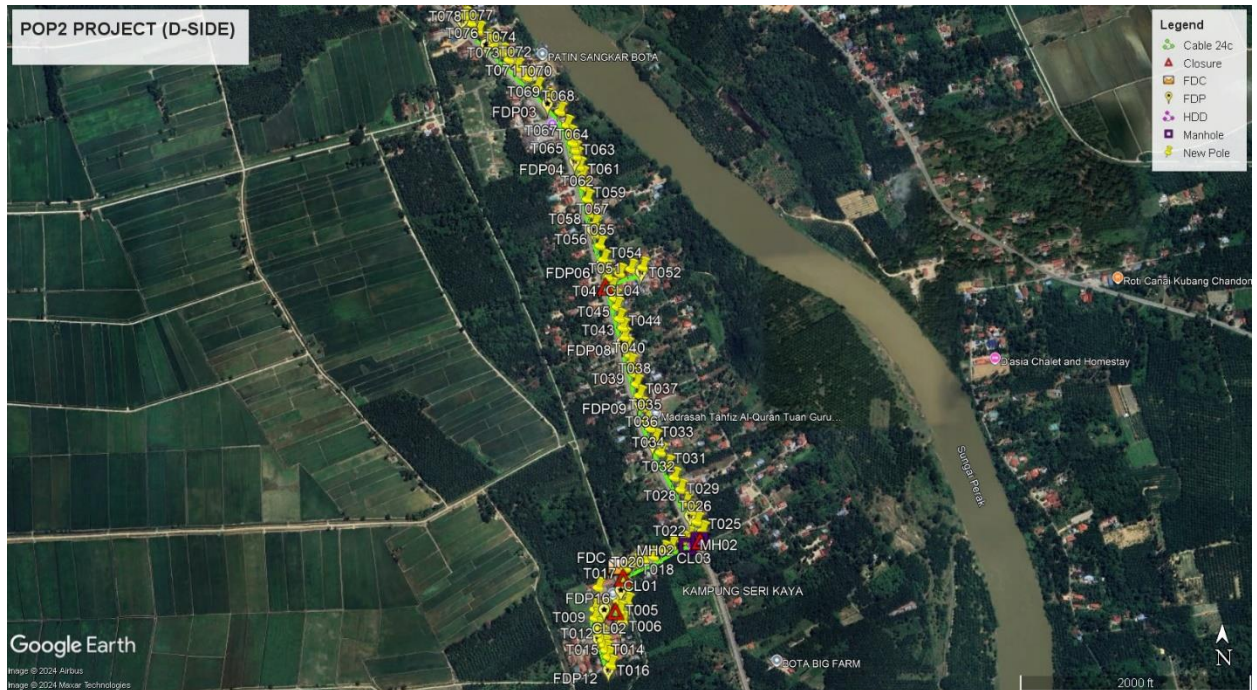
Bil	Items	Owner	Quantity	Distance(m)
1	HDD	JKR	1	60m
		Majlis	-	-
		Estate / Private Land	-	-
2	New Pole	JKR	52pcs	1600m
		Majlis	28pcs	702m
		Estate / Private Land	-	-
3	Existing TNB Pole	JKR	-	-
		Majlis	-	-
		Estate / Private Land	-	-
Total				2302m

Site Plan – KMZ (Overview site area)

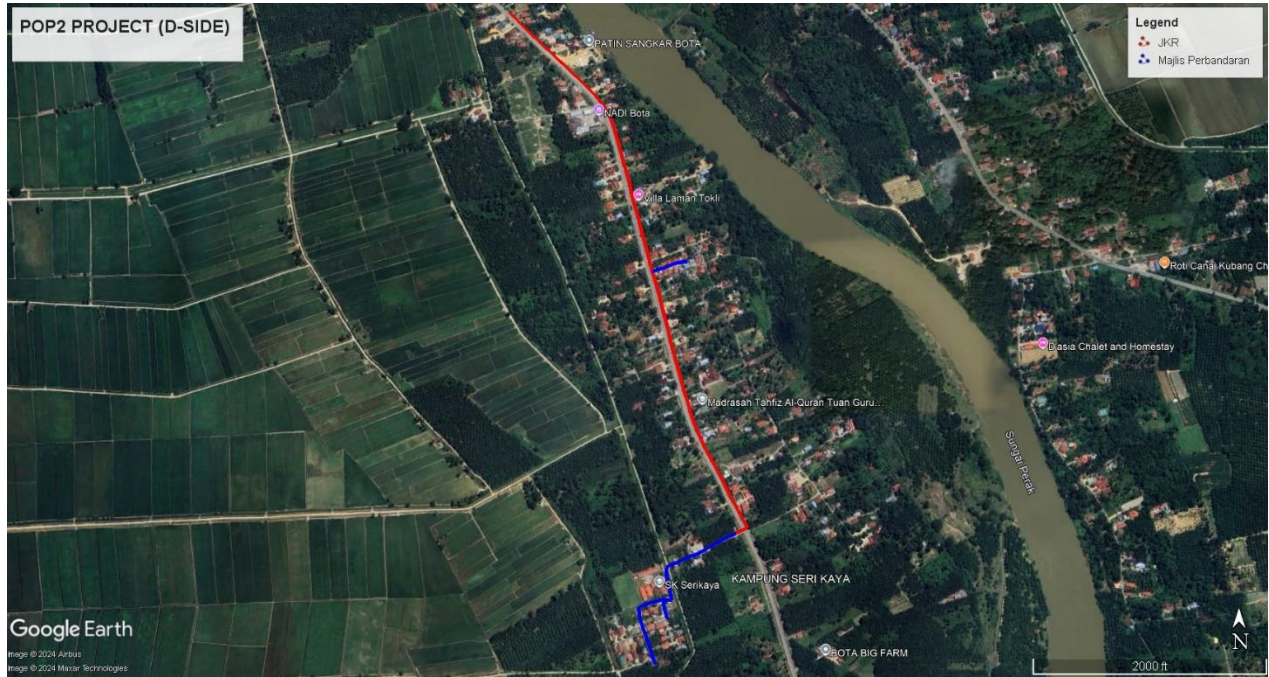
Proposed FDP and Closure



Proposed New Pole



Site Plan – KMZ Routing (All Local Authority)

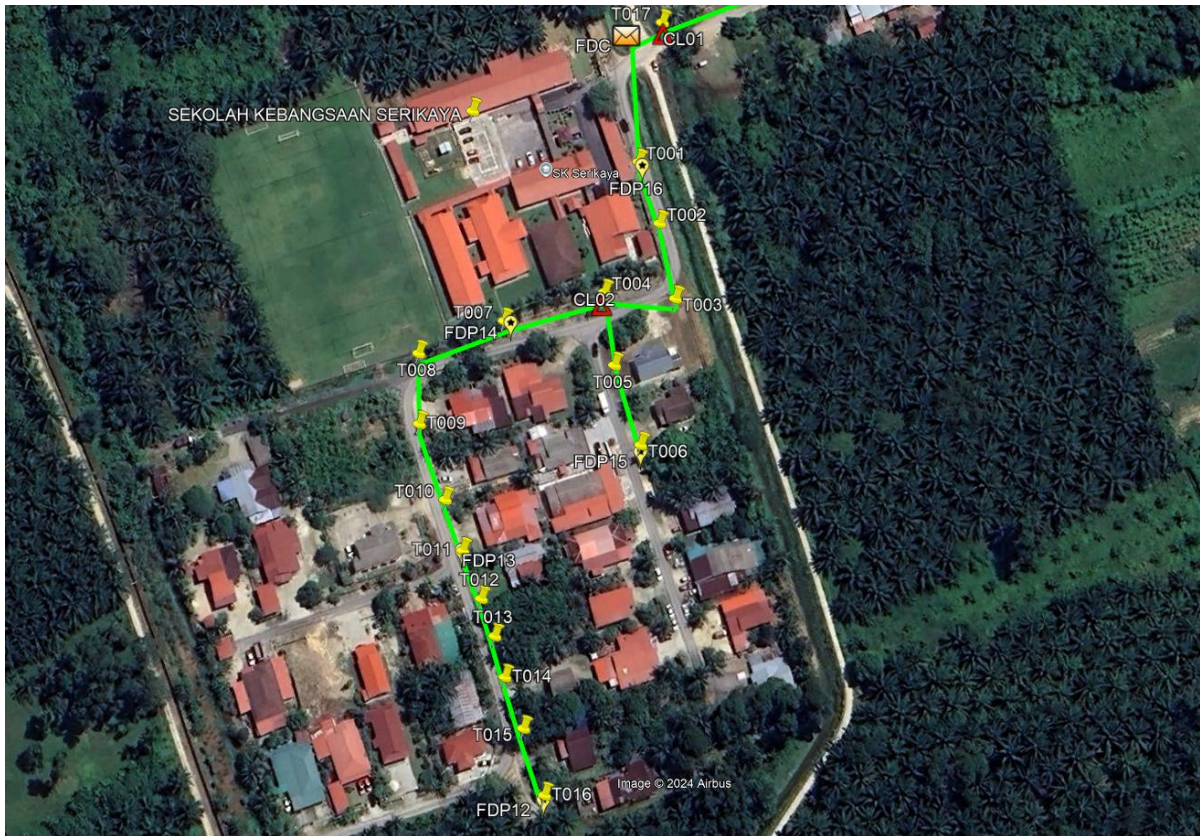
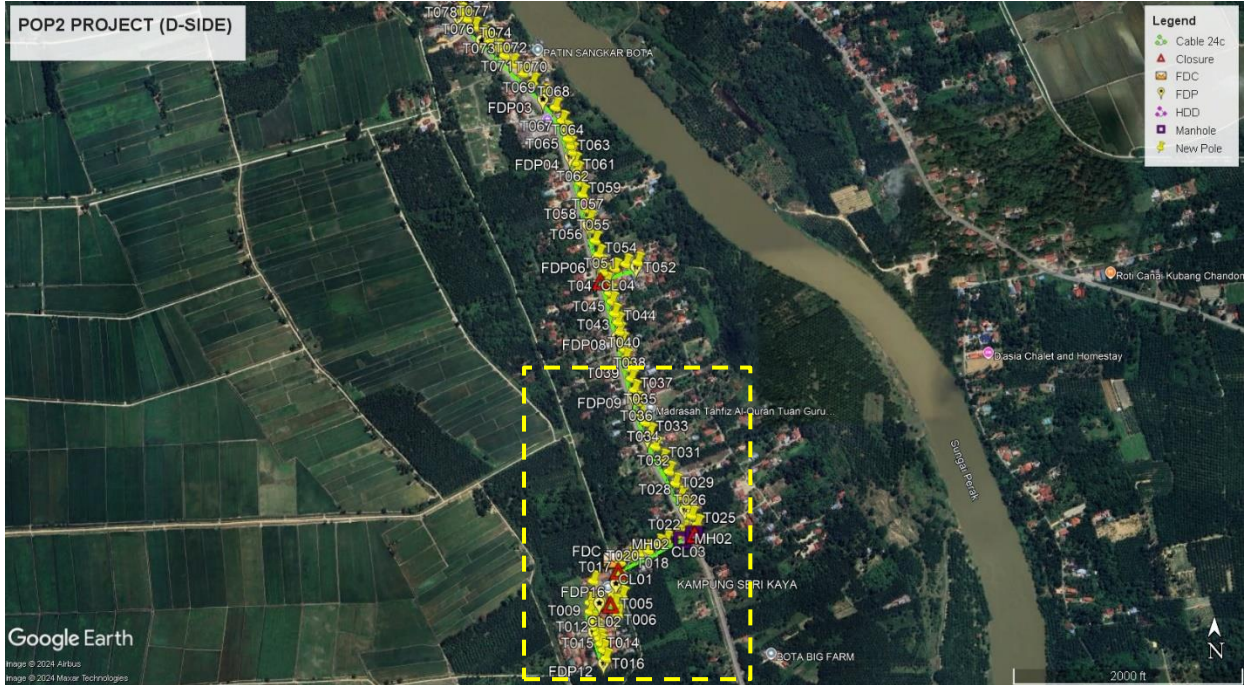


Red – JKR Perak Tengah

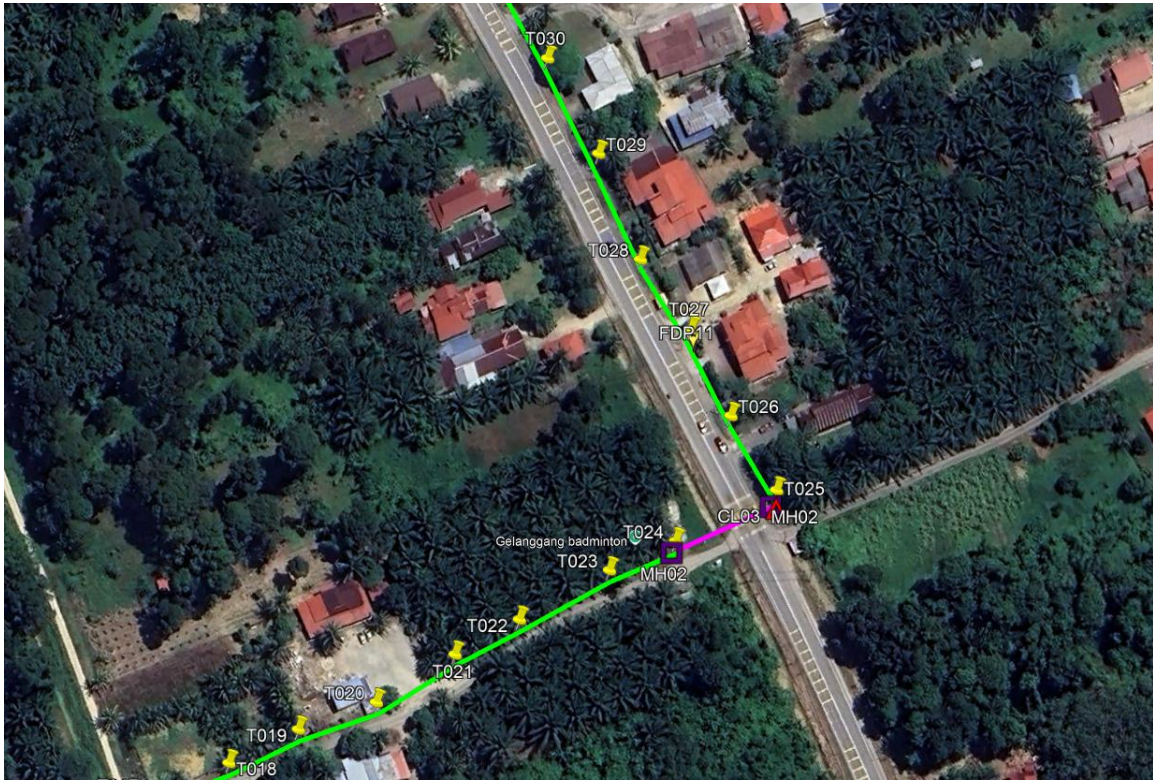
Blue - Majlis Perbandaran Perak Tengah

Site Plan – KMZ Routing (All site area)

Route 1



Route 1.1

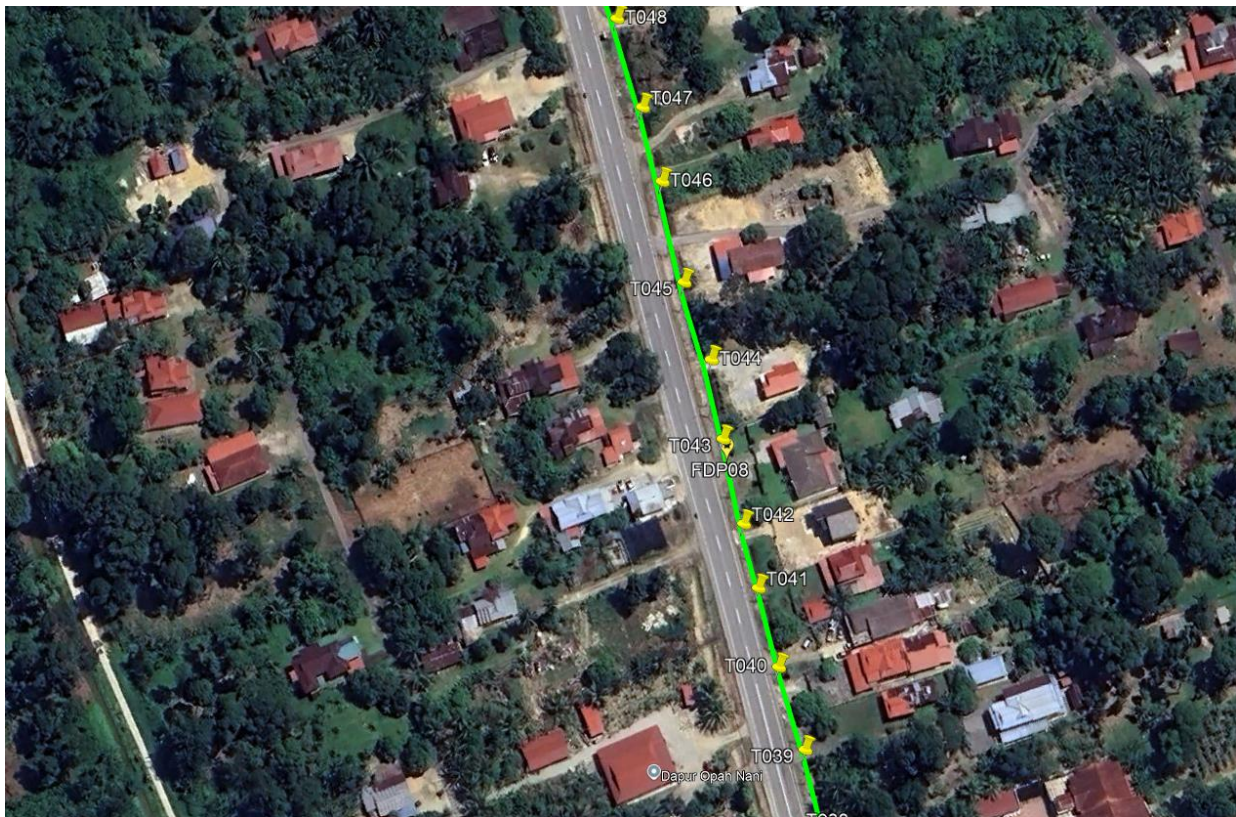
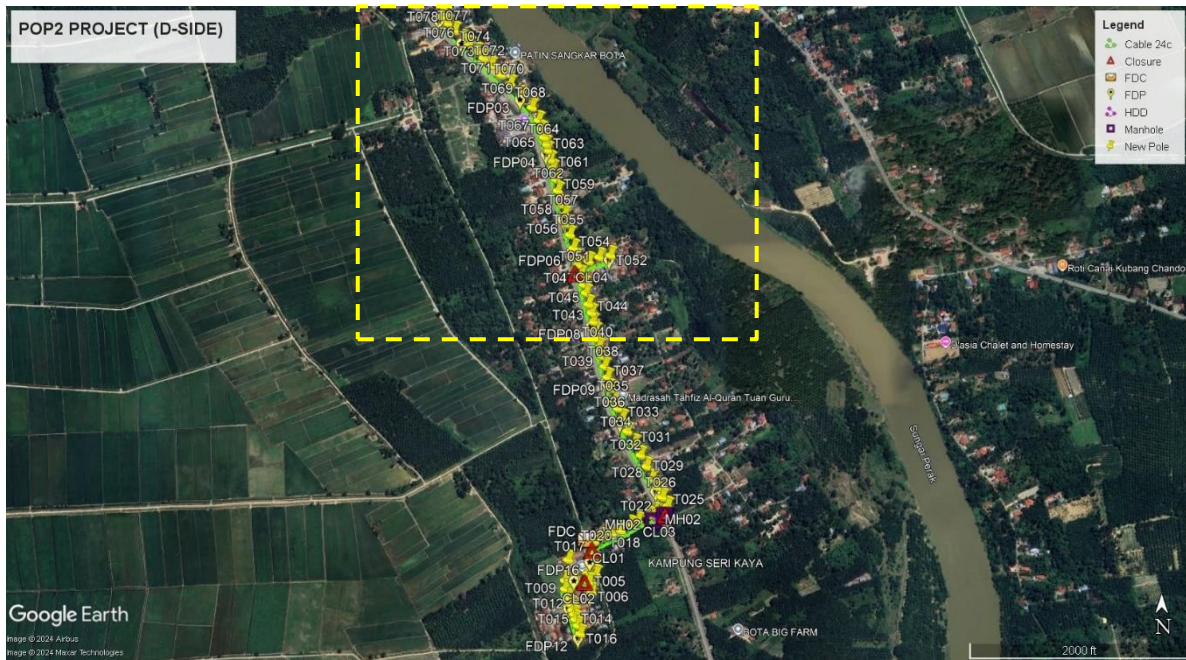


Route 1.2

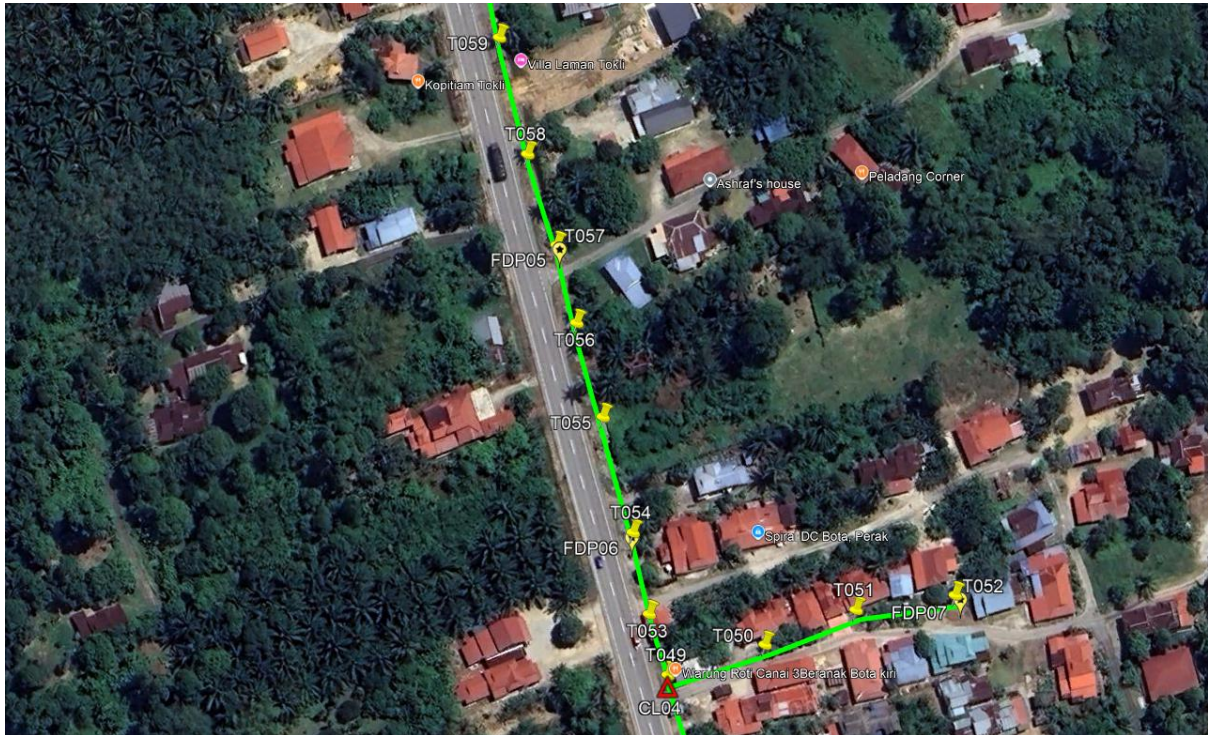


Route 1.3

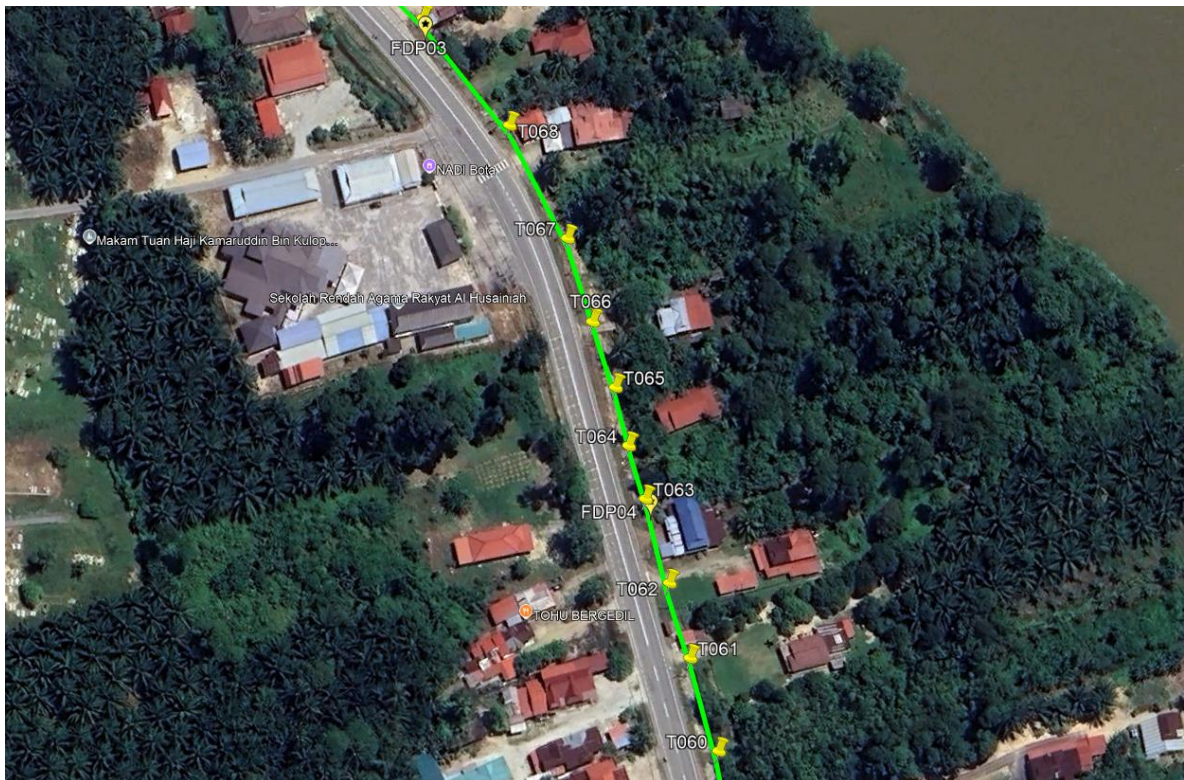
Route 2



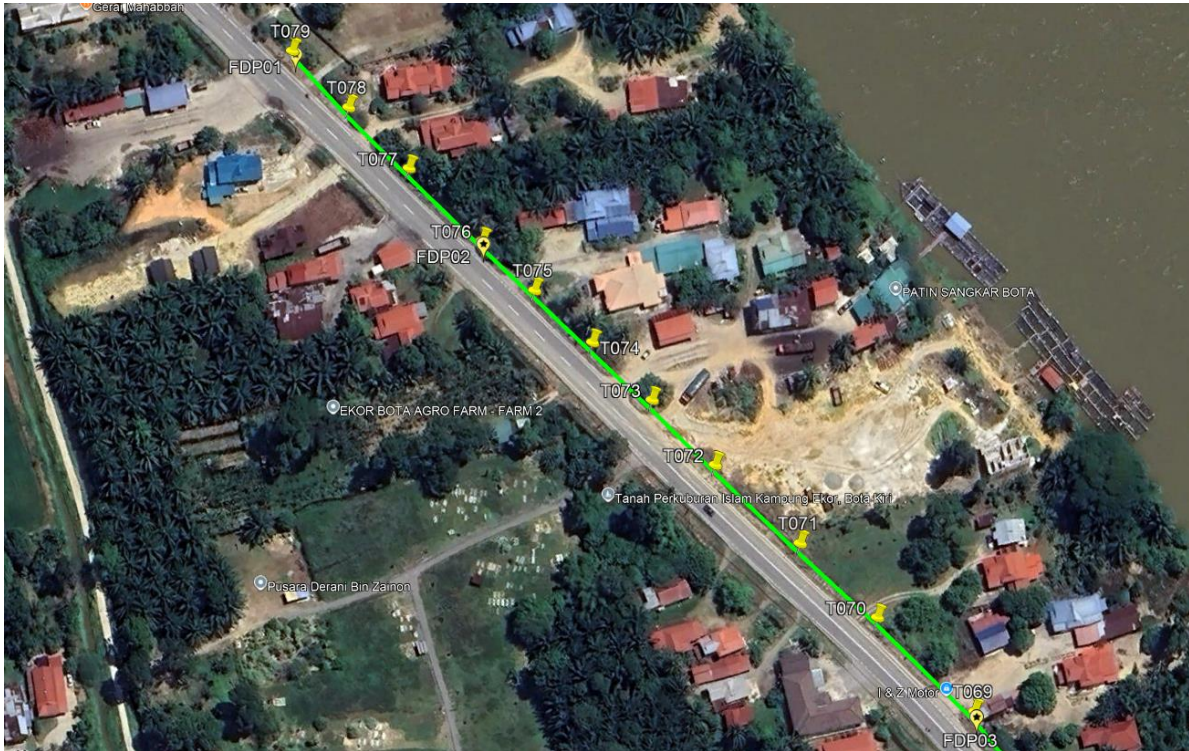
Route 2.1



Route 2.2



Route 2.3



Route 2.4

Site Plan – KMZ Routing (Proposed New Manhole)

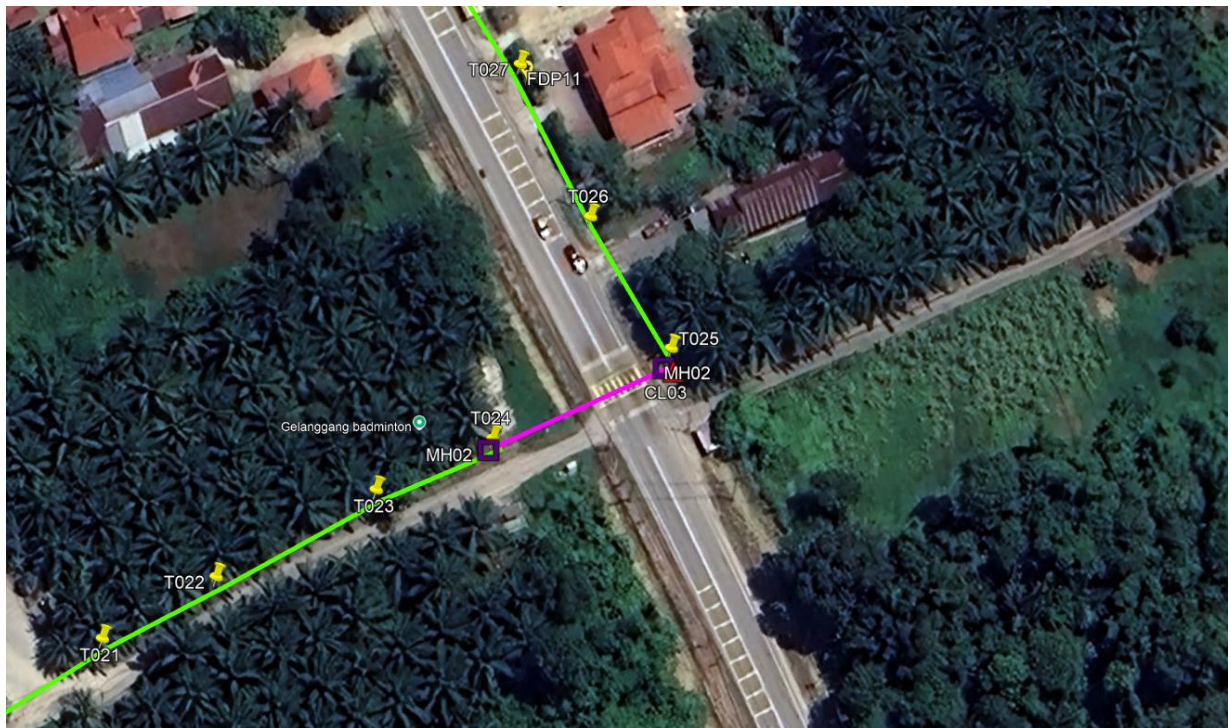
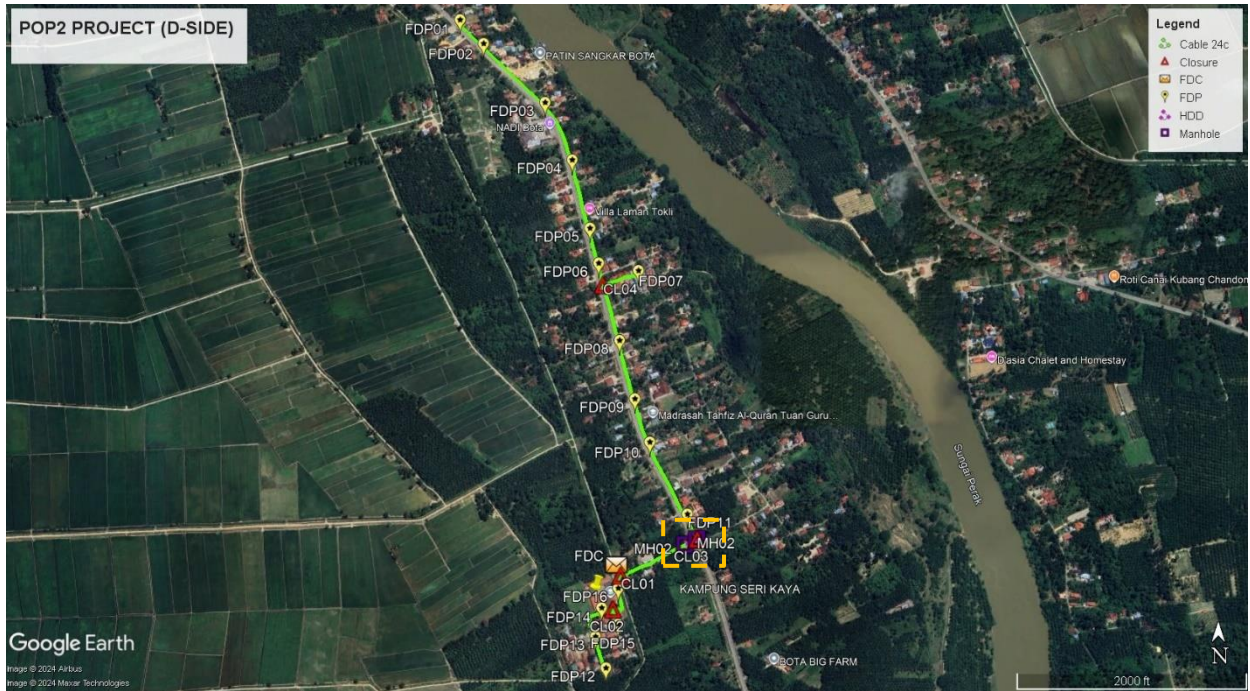
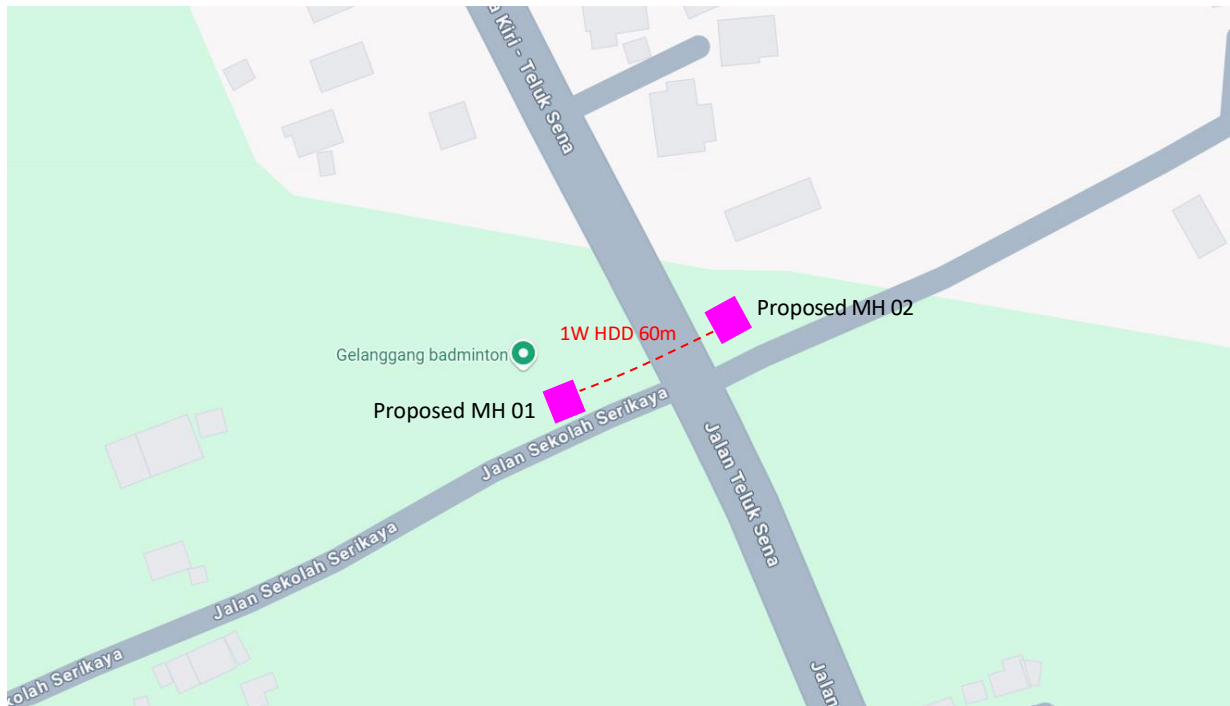


Figure 1: Manhole 1 (4.333564, 100.881873) & Manhole 2 (4.333717, 100.882168)

Site Plan – Google Map (routing plan, Manhole)



Proposed New Manhole Lat & Long Table

POLE NUMBER	PROPOSED MANHOLE COORDINATE	
	LATITUDE	LONGITUDE
MH01	4.333564	100.881873
MH02	4.333717	100.882168



PROJEK PENYEDIAAN DAN PENYELENGGARAAN POINT OF PRESENCE (POP) FASA 2: HAB 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))



Overall Pole (Proposed New)

No.	Pole ID	Distance (m)	Latitude	Longitude	Local Authority
1	FDC	0.00	4.332796	100.880255	Majlis Perbandaran Perak Tengah
2	T001	42.07	4.332418391	100.8802708	Majlis Perbandaran Perak Tengah
3	T002	21.54	4.332235461	100.8803338	Majlis Perbandaran Perak Tengah
4	T003	26.02	4.332006675	100.8803818	Majlis Perbandaran Perak Tengah
5	T004	23.96	4.332026315	100.8801675	Majlis Perbandaran Perak Tengah
6	T005	24.75	4.331806065	100.8801978	Majlis Perbandaran Perak Tengah
7	T006	28.13	4.331566081	100.880277	Majlis Perbandaran Perak Tengah
8	T007	62.16	4.331940638	100.8798628	Majlis Perbandaran Perak Tengah
9	T008	31.01	4.331843378	100.8796018	Majlis Perbandaran Perak Tengah
10	T009	23.80	4.331629625	100.8796047	Majlis Perbandaran Perak Tengah
11	T010	26.94	4.331400975	100.8796838	Majlis Perbandaran Perak Tengah
12	T011	18.09	4.331247627	100.8797376	Majlis Perbandaran Perak Tengah
13	T012	17.35	4.331102055	100.8797934	Majlis Perbandaran Perak Tengah
14	T013	13.33	4.330989667	100.8798347	Majlis Perbandaran Perak Tengah
15	T014	14.11	4.330866861	100.8798661	Majlis Perbandaran Perak Tengah
16	T015	18.04	4.330715477	100.879924	Majlis Perbandaran Perak Tengah
17	T016	22.94	4.330519884	100.8799889	Majlis Perbandaran Perak Tengah
18	T017	260.42	4.33283244	100.8803422	Majlis Perbandaran Perak Tengah
19	T018	28.03	4.332927011	100.8805755	Majlis Perbandaran Perak Tengah
20	T019	25.28	4.333025697	100.8807801	Majlis Perbandaran Perak Tengah
21	T020	27.33	4.333107361	100.8810115	Majlis Perbandaran Perak Tengah
22	T021	30.37	4.333249251	100.8812445	Majlis Perbandaran Perak Tengah
23	T022	23.70	4.333350539	100.8814318	Majlis Perbandaran Perak Tengah
24	T023	33.17	4.333492866	100.8816936	Majlis Perbandaran Perak Tengah
25	T024	23.46	4.333577512	100.8818866	Majlis Perbandaran Perak Tengah
26	T025	36.72	4.333725873	100.8821811	JKR Perak Tengah
27	T026	28.29	4.333942217	100.8820479	JKR Perak Tengah
28	T027	30.92	4.334194624	100.8819319	JKR Perak Tengah
29	T028	28.01	4.334398223	100.8817841	JKR Perak Tengah
30	T029	37.50	4.334711381	100.8816599	JKR Perak Tengah
31	T030	35.83	4.334995034	100.8815078	JKR Perak Tengah
32	T031	36.83	4.335287159	100.8813525	JKR Perak Tengah
33	T032	39.70	4.335596197	100.8811745	JKR Perak Tengah
34	T033	38.74	4.335918907	100.8810442	JKR Perak Tengah
35	T034	30.82	4.336170451	100.8809287	JKR Perak Tengah
36	T035	22.49	4.336357965	100.8808536	JKR Perak Tengah
37	T036	35.76	4.336666803	100.8807653	JKR Perak Tengah
38	T037	33.18	4.336950832	100.8806749	JKR Perak Tengah
39	T038	31.47	4.337223696	100.880601	JKR Perak Tengah
40	T039	29.38	4.337478659	100.8805329	JKR Perak Tengah
41	T040	26.85	4.337708385	100.8804593	JKR Perak Tengah
42	T041	25.34	4.337928805	100.8804024	JKR Perak Tengah

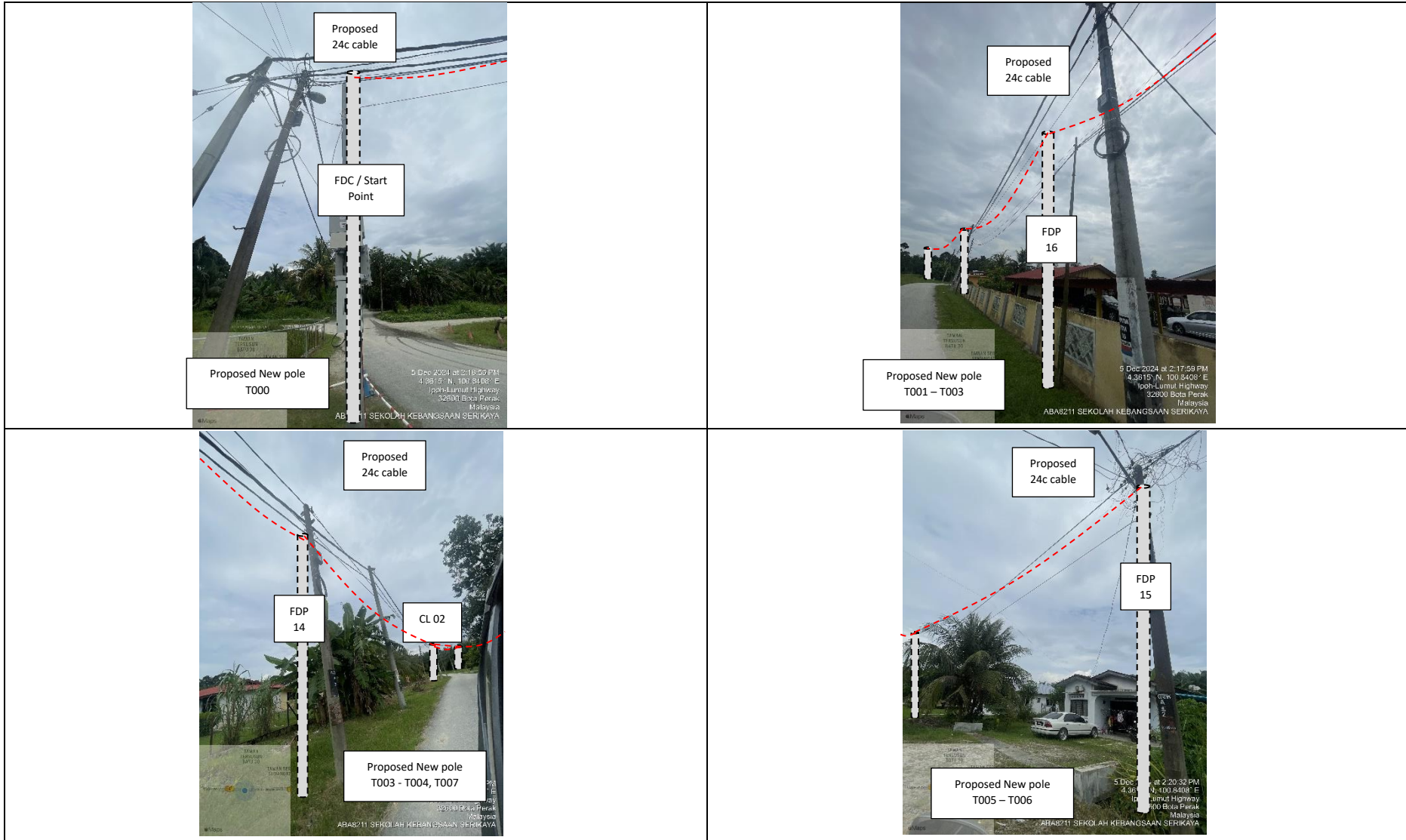


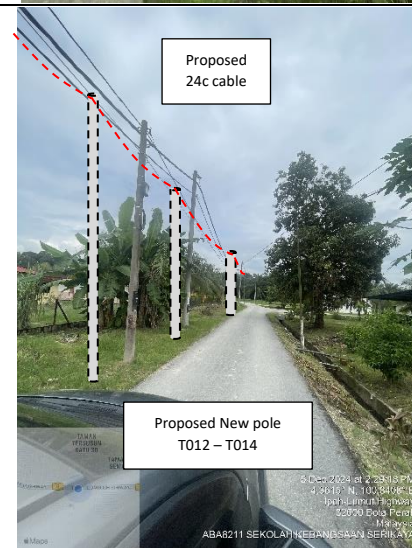
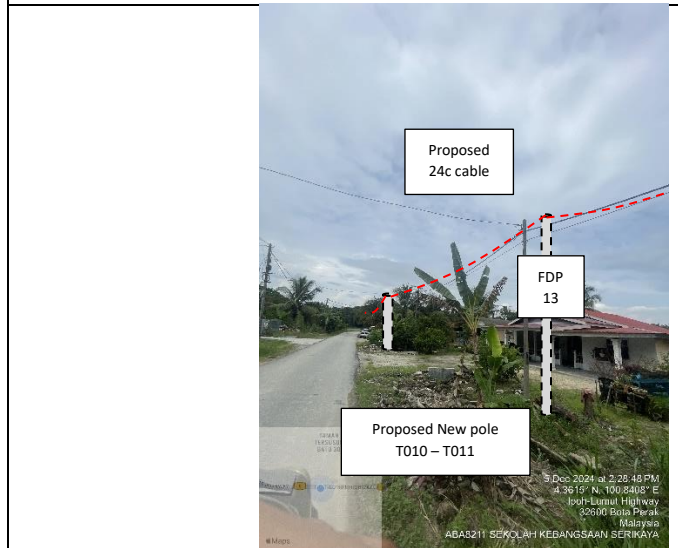
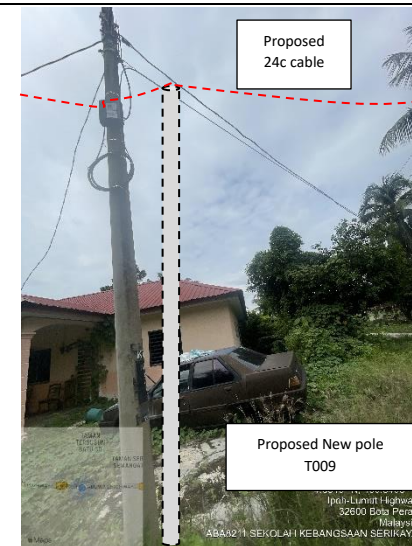
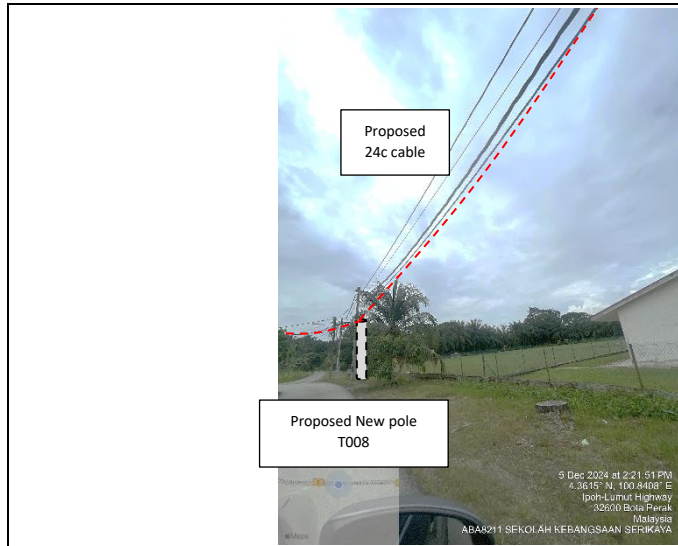
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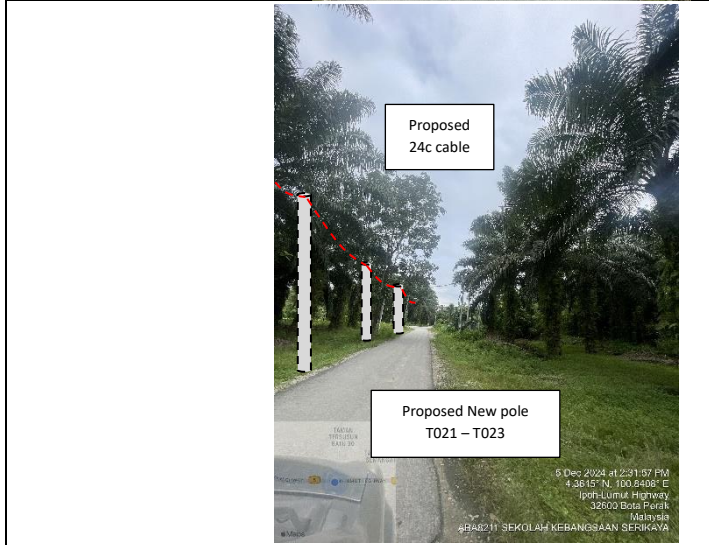
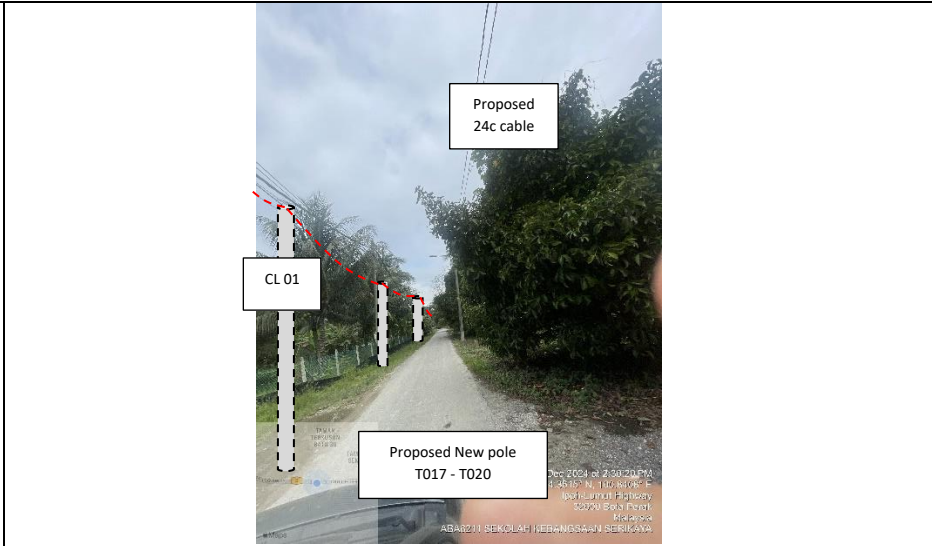
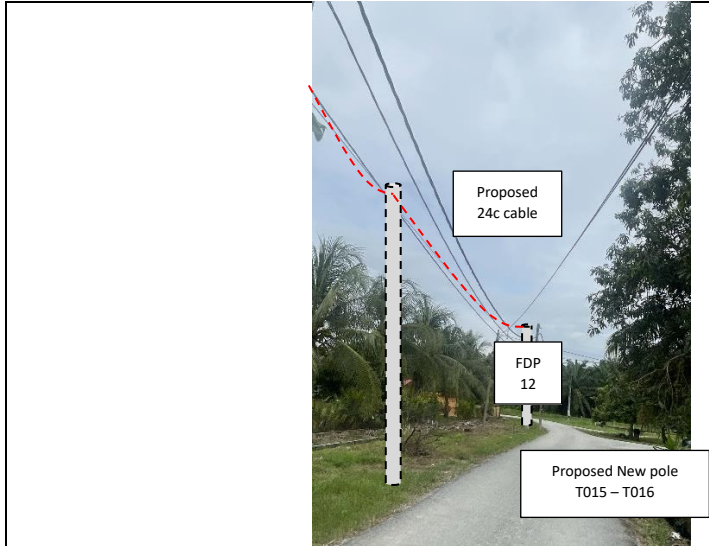


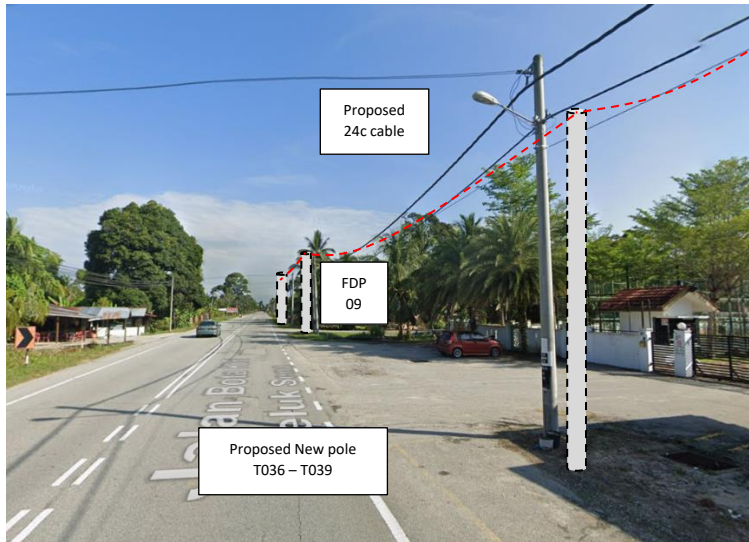
43	T042	20.54	4.33810873	100.8803614	JKR Perak Tengah
44	T043	27.11	4.338345211	100.8803032	JKR Perak Tengah
45	T044	24.94	4.338566861	100.8802706	JKR Perak Tengah
46	T045	25.41	4.338782054	100.8801945	JKR Perak Tengah
47	T046	32.23	4.339064816	100.8801325	JKR Perak Tengah
48	T047	24.02	4.339273442	100.8800772	JKR Perak Tengah
49	T048	28.72	4.339521238	100.8800055	JKR Perak Tengah
50	T049	29.66	4.33977271	100.8799174	JKR Perak Tengah
51	T050	32.98	4.339860333	100.8802004	Majlis Perbandaran Perak Tengah
52	T051	31.53	4.339963169	100.8804643	Majlis Perbandaran Perak Tengah
53	T052	32.19	4.340007388	100.8807501	Majlis Perbandaran Perak Tengah
54	T053	98.98	4.339950417	100.8798629	JKR Perak Tengah
55	T054	26.96	4.340187944	100.8798157	JKR Perak Tengah
56	T055	38.52	4.340523054	100.8797294	JKR Perak Tengah
57	T056	31.51	4.340795433	100.8796525	JKR Perak Tengah
58	T057	25.80	4.341020163	100.8795959	JKR Perak Tengah
59	T058	30.89	4.341284109	100.8795101	JKR Perak Tengah
60	T059	39.31	4.34162697	100.8794257	JKR Perak Tengah
61	T060	32.30	4.341912596	100.8793747	JKR Perak Tengah
62	T061	31.48	4.34218294	100.8792918	JKR Perak Tengah
63	T062	25.04	4.342400005	100.8792328	JKR Perak Tengah
64	T063	27.97	4.342641644	100.879164	JKR Perak Tengah
65	T064	17.77	4.342794027	100.8791164	JKR Perak Tengah
66	T065	19.00	4.34296053	100.879079	JKR Perak Tengah
67	T066	22.18	4.343148344	100.8790124	JKR Perak Tengah
68	T067	28.11	4.343389902	100.8789389	JKR Perak Tengah
69	T068	40.62	4.3437145	100.8787722	JKR Perak Tengah
70	T069	43.96	4.344021212	100.8785234	JKR Perak Tengah
71	T070	45.10	4.344302686	100.878232	JKR Perak Tengah
72	T071	35.79	4.344524916	100.8779996	JKR Perak Tengah
73	T072	38.14	4.344756808	100.8777473	JKR Perak Tengah
74	T073	29.96	4.344949741	100.8775597	JKR Perak Tengah
75	T074	27.61	4.345121962	100.8773813	JKR Perak Tengah
76	T075	26.01	4.345277548	100.877207	JKR Perak Tengah
77	T076	24.03	4.345426228	100.8770504	JKR Perak Tengah
78	T077	34.53	4.345643888	100.8768295	JKR Perak Tengah
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80	T079	26.46	4.345995649	100.876478	JKR Perak Tengah

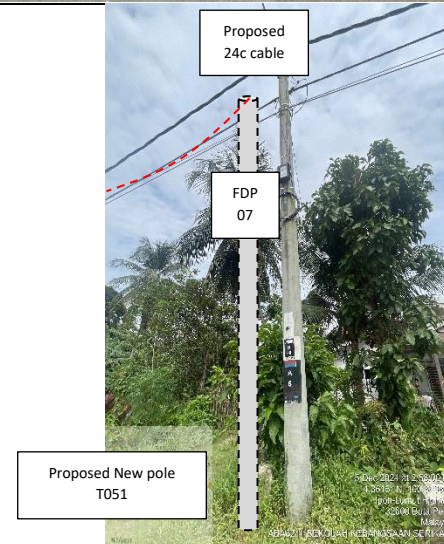
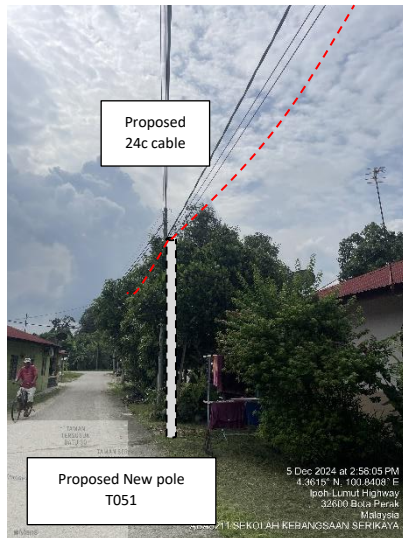
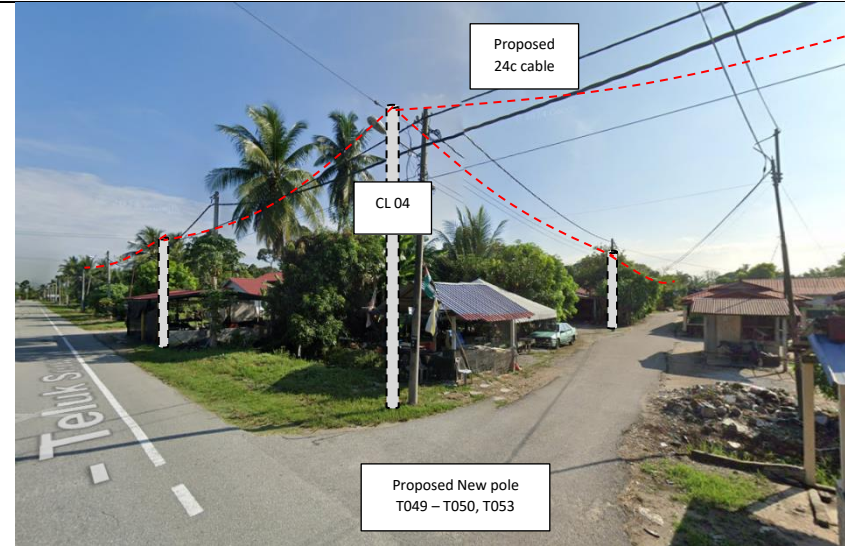
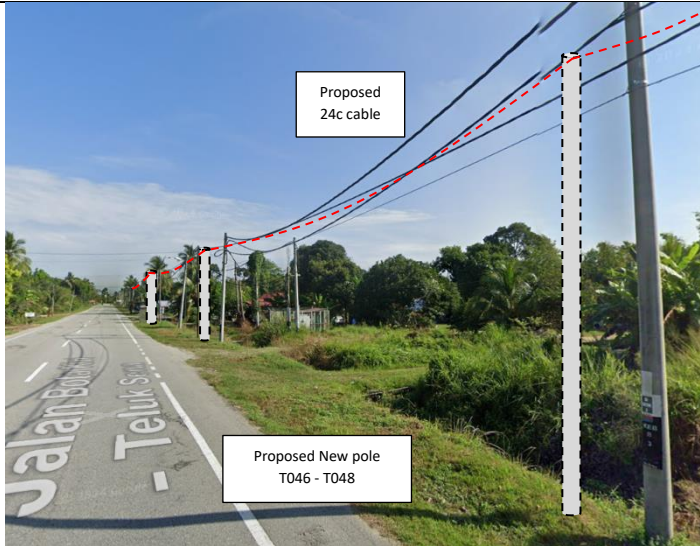
Site Photos – Proposed to install pole

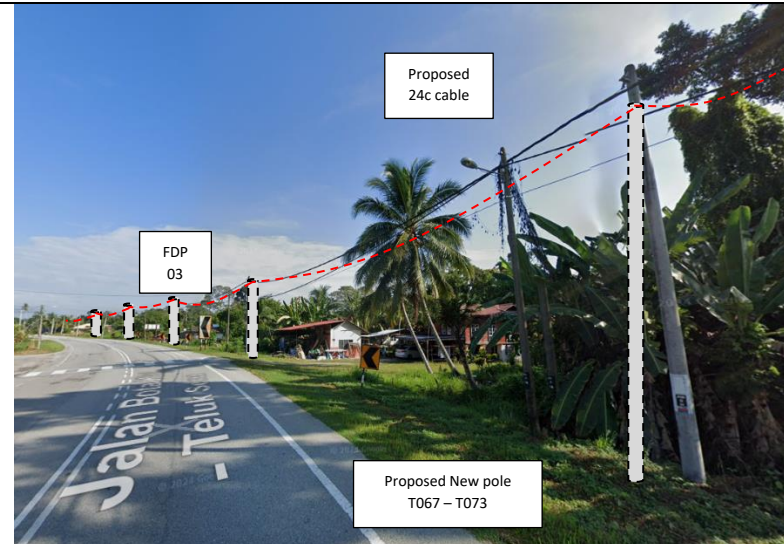
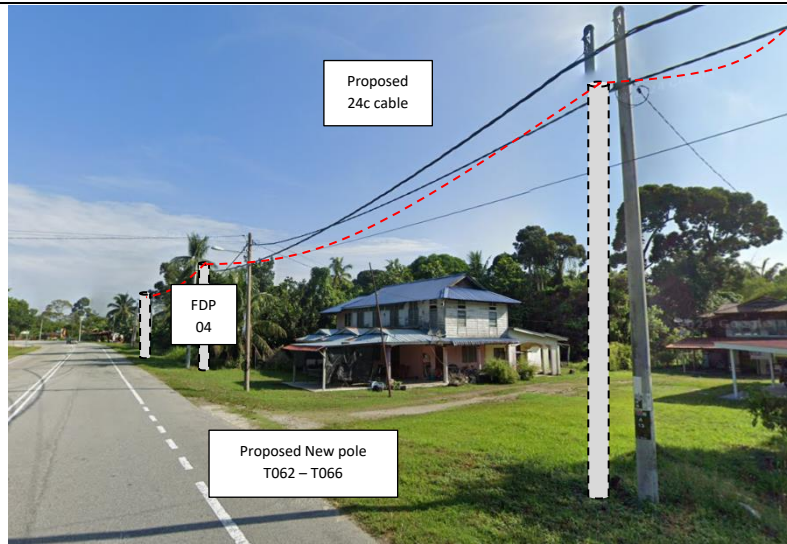
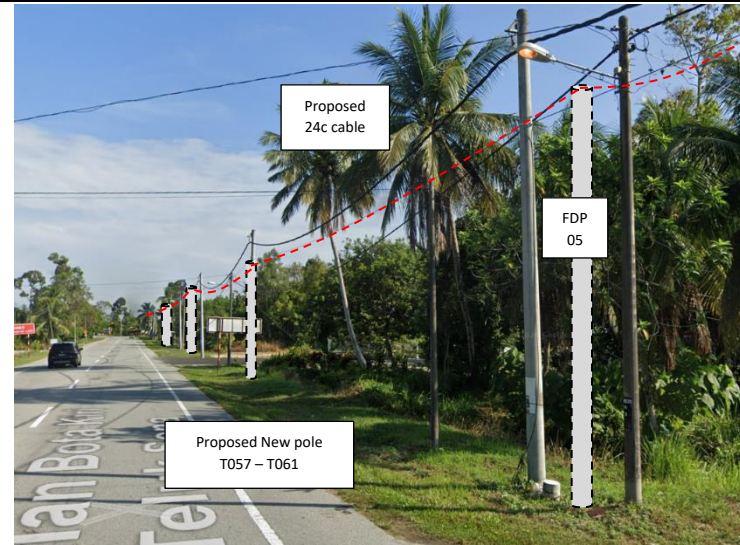
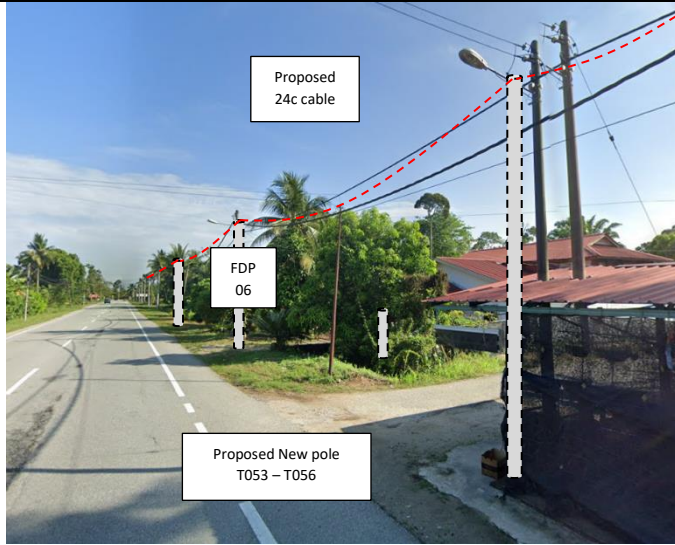


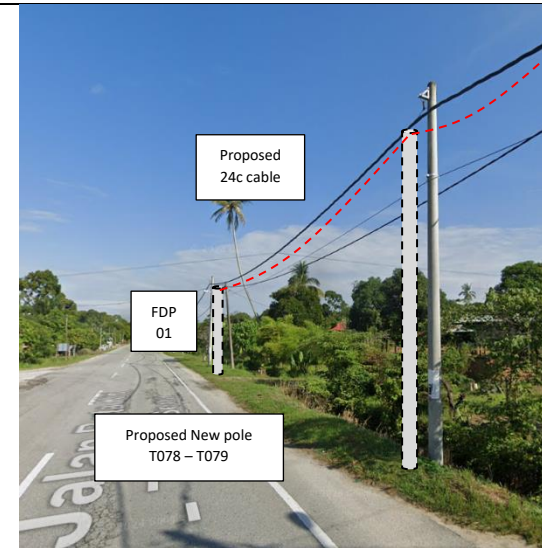
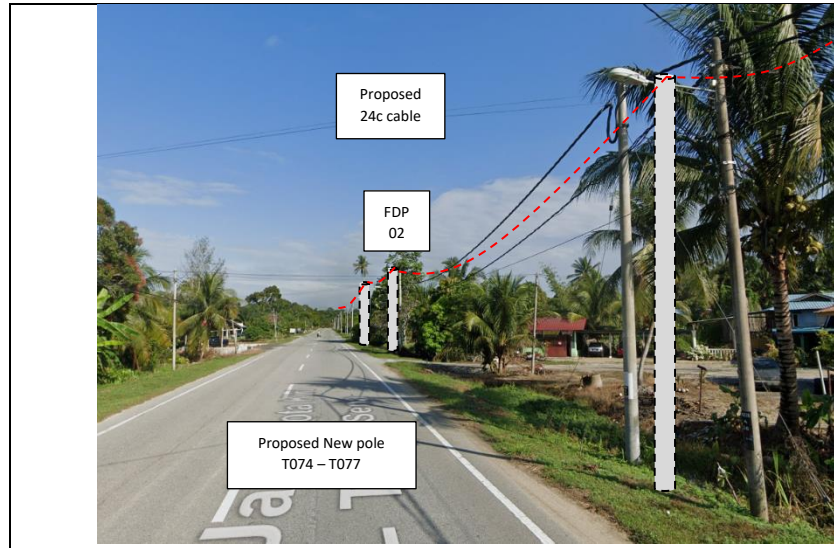














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3rd Parties Dependencies

No.	Local Council/ Authority	Remark
1	JKR Perak Tengah	
2	Majlis Perbandaran 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	2302	Installed Patch Cord		Installed Pole (7.5M)	80	Tension		New Manhole(JRC7)	2	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	16	HDD (Meter)	60	Active Outdoor Cabinet		CL01	Closure NO.
144C FOC		Existing Closure		Installed Riser		Existing Manhole		Open Cut (Meter)		FDC NO.		DP1	FDP NO.

ACTUAL HOMEPASS :

KEY PLAN :


POP2 PROJECT IN PERAK

OWNER/DEVELOPOR :



APEX COMMUNICATIONS SDN BHD
12th FLOOR, MENARA 11th SENANG
50000 KUALA LUMPUR

MAIN CONTRACTOR :



WCWL COMMUNICATIONS SDN BHD
127, JALAN PULU 3/2, TAMAN PUNCAK JAYA,
MUKAH PUTRA PERANG,
43000 SENI KEMERLANG, SELANGOR
TEL : +603 8988 0963
E-MAIL : info@wcwlcommunications.com.my

PROJECT TITLE :

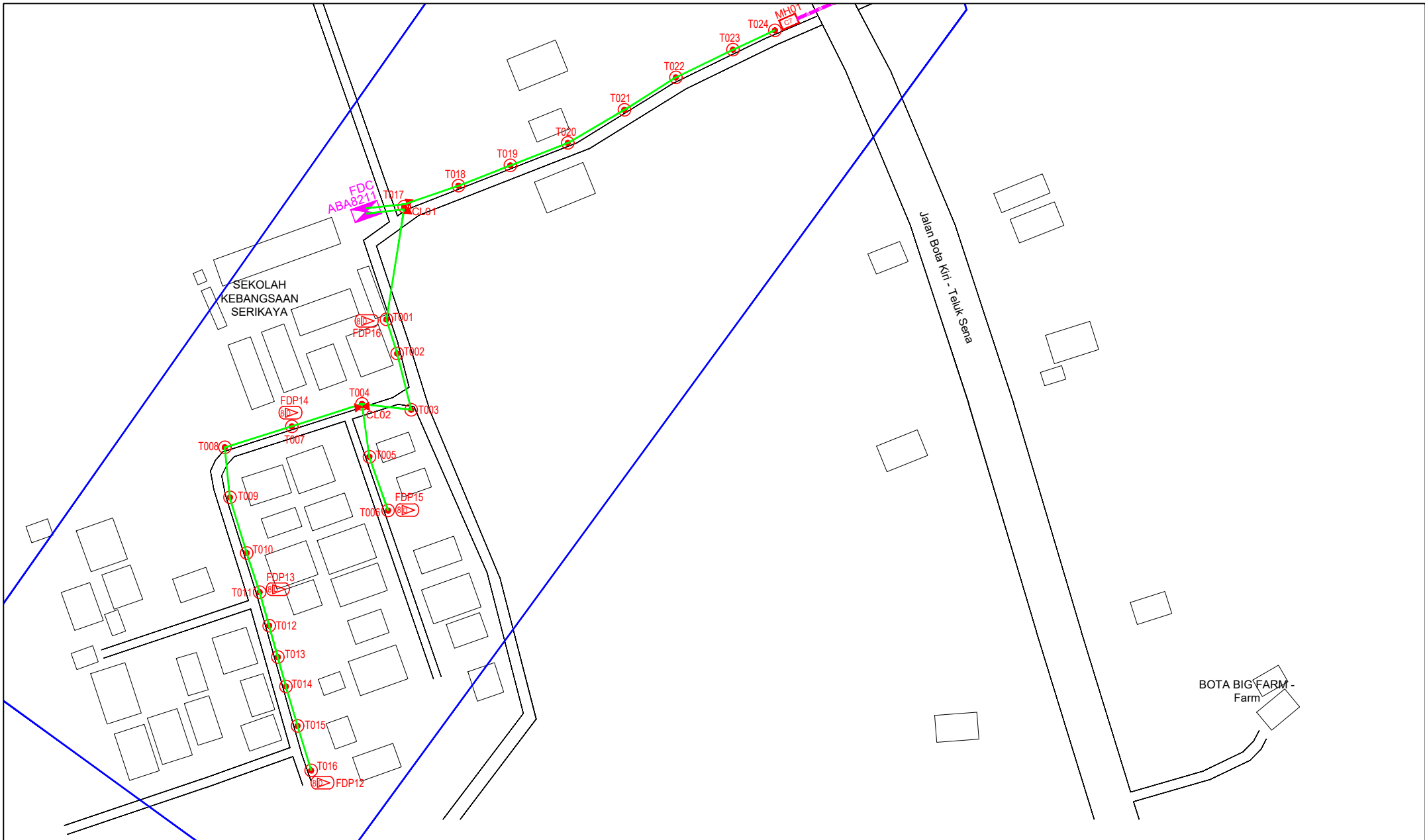
CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT

DRAWING TITLE:

AS-BUILT SITE PLAN DRAWING
ABA8211
SEKOLAH KEBANGSAAN SERIKAYA

PROJECT PHASE:
POP 2

Design By : ENGINEER	Date : DEC 2024
Drawn By : CAD ENGINEER	Scale : NOT TO SCALE
Checked By : ENGINEER	Job Number : 1
DRAWING NUMBER : ABA8211-ABD-01	Sheet : 1/6
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Size : A3	



LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.
12C FOC	Installed 1:4 / 1:8 / 1:32 splitter	Installed Pole (9m)	Suspension	8B30	New Manhole (PIT)	Micro-Trenching (Meter)	MH1	MH NO.		
24C FOC	Installed Patch Cord	Installed Pole (7.5M)	Tension	8C7	New Manhole(JRC7)	Temporary Infra (Meter)	TKS-1	Existing TNB Pole NO.		
48C FOC	FDC	Installed Pole (6.7M)	Pole Ring		FDP Boundary	Loop / Coil (Meter)	P001	New Pole NO.		
96C FOC	Closure	Existing TNB Pole	FDP with (1:8) splitter	16	HDD (Meter)	#	CL01	Closure NO.		
144C FOC	Existing Closure	Installed Riser	Existing Manhole		Open Cut (Meter)	001	DP1	FDP NO.		

ACTUAL HOMEPASS :

KEY PLAN :
POP2 PROJECT IN PERAK

OWNER/DEVELOPER :
APEX COMMUNICATIONS SDN BHD
128, FLOOR, MENARA TWP SERI,
20200, JALAN P. PANGLE,
KUALA LUMPUR

MAIN CONTRACTOR :
WCWL COMMUNICATIONS SDN BHD
WCWL COMMUNICATIONS SDN BHD
127, JALAN PULU 3/3, TAMAN PUNCAK JALIL,
BANDAR PUTERI PERANG,
42000 SERI KEMBANGAN, SELANGOR
TEL : +603 8988 9063
E-MAIL : info@wcwlcommunications.com.my

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

DRAWING TITLE:
AS-BUILT SITE PLAN DRAWING ABA8211 SEKOLAH KEBANGSAAN SERIKAYA

PROJECT PHASE:
POP 2

Design By : ENGINEER	Date : DEC 2024
Drawn By : CAD ENGINEER	Scale : NOT TO SCALE
Checked By : ENGINEER	Job Number : 1
DRAWING NUMBER : ABA8211-ABD-01A	Sheet : 2/6
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Size : A3	




LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.			
12C FOC		Installed 1:4 / 1:8 / 1:32 splitter		Installed Pole (9m)		Suspension		MS0	New Manhole (PIT)		Micro-Trenching (Meter)		MH1	MH NO.
24C FOC	2302	Installed Patch Cord		Installed Pole (7.5M)	80	Tension		MS7	New Manhole(JRC7)	2	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	16		HDD (Meter)	60	Active Outdoor Cabinet		CL01	Closure NO.
144C FOC		Existing Closure		Installed Riser		Existing Manhole			Open Cut (Meter)		FDC NO.		DP1	FDP NO.

ACTUAL HOMEPASS :

KEY PLAN :

POP2 PROJECT IN PERAK

OWNER/DEVELOPER :



APEX COMMUNICATIONS SDN BHD
12B, FLORIS, MENARA MAP SENANG, 50550, JALAN P. RAJALELA, KUALA LUMPUR

MAIN CONTRACTOR :



WCWL COMMUNICATIONS SDN BHD
127, JALAN PULU 3/2, TAMAN PUNCAK JALIL, BANGKANG PUTRA, PERAK
43300 SERI KEMBANGAN, SELANGOR
TEL: +603 9492 8963
E-MAIL: info@wcwlcommunications.com.my

PROJECT TITLE :

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

DRAWING TITLE:

AS-BUILT SITE PLAN DRAWING
ABA8211
SEKOLAH KEBANGSAAN SERIKAYA

PROJECT PHASE:
POP 2

Design By : ENGINEER	Date : DEC 2024
Drawn By : CAD ENGINEER	Scale : NOT TO SCALE
Checked By : ENGINEER	Job Number : 1
DRAWING NUMBER : ABA8211-ABD-01B	Sheet : 3/6
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Size : A3	




LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.
12C FOC		Installed 1:4 / 1:8 / 1:32 splitter		Installed Pole (9m)	80	Suspension		MS30 New Manhole (PIT)		Micro-Trenching (Meter)
24C FOC	2302	Installed Patch Cord		Installed Pole (7.5M)		Tension		MS7 New Manhole(JRC7)	2	Temporary Infra (Meter)
48C FOC		FDC	1	Installed Pole (6.7M)		Pole Ring		FDP Boundary		Loop / Coil (Meter)
96C FOC		Closure	4	Existing TNB Pole		FDP with (1:8) splitter	16	HDD (Meter)	60	Active Outdoor Cabinet
144C FOC		Existing Closure		Installed Riser		Existing Manhole		Open Cut (Meter)		FDC NO.
										MH1 MH NO.
										TKS-1 Existing TNB Pole NO.
										P001 New Pole NO.
										CL01 Closure NO.
										DP1 FDP NO.

ACTUAL HOMEPASS :

KEY PLAN :

POP2 PROJECT IN PERAK

OWNER/DEVELOPER :



APEX COMMUNICATIONS SDN BHD
12th FLOOR, MENARA HAP SENG,
62500 ALIAN P. PERAK
KUALA LUMPUR

MAIN CONTRACTOR :



WCWL COMMUNICATIONS SDN BHD
127, JALAN PUJ 3/3, TAMAN PUNCAK JAL,
PUNCAK PUTIH, 43000 SEREMBAN,
SELANGOR
TEL: +601 8988 9993
E-MAIL: info@wcwlcommunications.com.my

PROJECT TITLE :

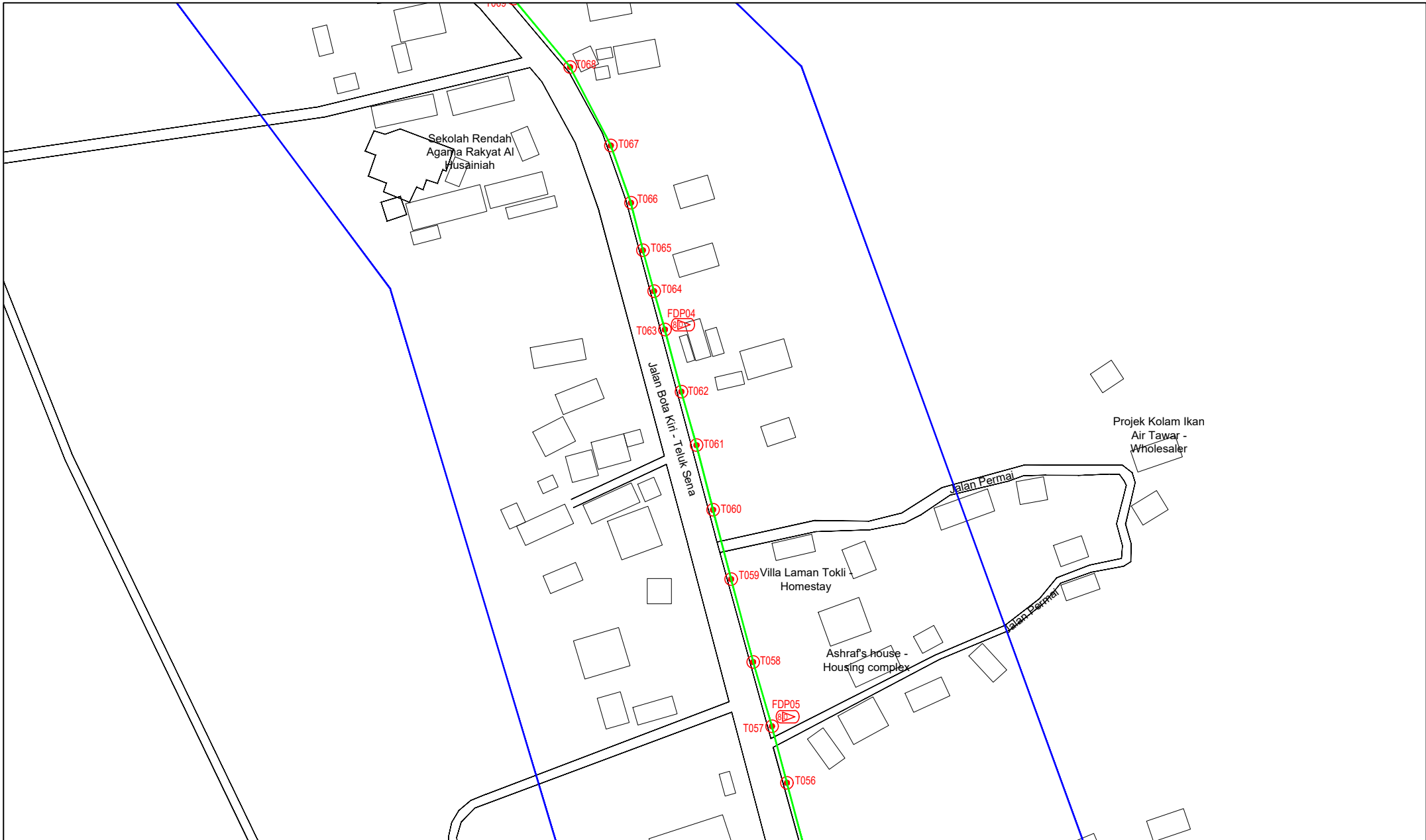
CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT

DRAWING TITLE:

AS-BUILT SITE PLAN DRAWING
ABA8211
SEKOLAH KEBANGSAAN SERIKAYA

PROJECT PHASE:
POP2

Design By : ENGINEER	Date : DEC 2024
Drawn By : CAD ENGINEER	Scale : NOT TO SCALE
Checked By : ENGINEER	Job Number : 1
DRAWING NUMBER : ABA8211-ABD-01C	Sheet : 4/6
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LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.
12C FOC	Installed 1:4 / 1:8 / 1:32 splitter	Installed Pole (9m)	Suspension	ES30	New Manhole (PIT)	Micro-Trenching (Meter)	MH1	MH NO.		
24C FOC	Installed Patch Cord	Installed Pole (7.5M)	Tension	ES7	New Manhole(JRC7)	Temporary Infra (Meter)	TKS-1	Existing TNB Pole NO.		
48C FOC	FDC	Installed Pole (6.7M)	Pole Ring		FDP Boundary	Loop / Coil (Meter)	P001	New Pole NO.		
96C FOC	Closure	Existing TNB Pole	FDP with (1:8) splitter		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 :

KEY PLAN :

POP2 PROJECT IN PERAK

OWNER/DEVELOPER :

APEX COMMUNICATIONS SDN BHD
128, 130G, MENARA WFP SDN, 50250 JALAN P. PABELE, KUNING LUMPUR

MAIN CONTRACTOR :

WCWL COMMUNICATIONS SDN BHD
WCWL COMMUNICATIONS SDN BHD
127, JALAN PUTI 3/2, TAMAN PUNCAK JAYA, 43300 SERI KEMBANGAN, SELANGOR
TEL : +603 8988 0962
E-MAIL : info@wcwlcommunications.com.my

PROJECT TITLE :

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

DRAWING TITLE:
AS-BUILT SITE PLAN DRAWING
ABA8211
SEKOLAH KEBANGSAAN SERIKAYA

PROJECT PHASE:
POP 2

Design By : ENGINEER	Date : DEC 2024
Drawn By : CAD ENGINEER	Scale : NOT TO SCALE
Checked By : ENGINEER	Job Number : 1
DRAWING NUMBER : ABA8211-ABD-01D	Sheet : 5/6
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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	8030 New Manhole (PIT)	Micro-Trenching (Meter)	MH1 MH NO.			
24C FOC	Installed Patch Cord	Installed Pole (7.5M)	Tension	807 New Manhole(JRC7)	Temporary Infra (Meter)	TKS-1 Existing TNB Pole NO.			
48C FOC	FDC	Installed Pole (6.7M)	Pole Ring	FDP Boundary	Loop / Coil (Meter)	P001 New Pole NO.			
96C FOC	Closure	Existing TNB Pole	FDP with (1:8) splitter	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 :

KEY PLAN :
POP2 PROJECT IN PERAK

OWNER/DEVELOPOR :
APEX COMMUNICATIONS SDN BHD
12th FLOOR, MENARA HAP SENG,
50250 ALAM F. P. BANGSA,
KUALA LUMPUR

MAIN CONTRACTOR :
WCWL COMMUNICATIONS SDN BHD
WCWL COMMUNICATIONS SDN BHD
127, JALAN PULU 3/2, TAMAN PUNJANG JAYA,
MUKAH PUTRA PERUDA
43000 SERI KEMBANGAN, SELANGOR
TEL: +603 9585 9583
E-MAIL: info@wcwlcommunications.com.my

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

DRAWING TITLE:
AS-BUILT SITE PLAN DRAWING ABA8211 SEKOLAH KEBANGSAAN SERIKAYA

PROJECT PHASE:
POP 2

Design By : ENGINEER	Date : DEC 2024
Drawn By : CAD ENGINEER	Scale : NOT TO SCALE
Checked By : ENGINEER	Job Number : 1
DRAWING NUMBER : ABA8211-ABD-01E	Sheet : 6/6
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