

TECHNICAL PROPOSAL POP2 ABA8210 SEKOLAH KEBANGSAAN BOTA 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	: Nur Syahidah Izzatie
Date	: 10/12/2024



POINT A

POINT B

Starting Point

Site / Boundary Name	: SEKOLAH KEBANGSAAN BOTA KIRI
Address	: Bota Kiri
District	: Bota
Postcode	: 32600
State	: Perak
GPS Coordinate	: 4.357270, 100.871810
LRD	: A

End Point

Site / Boundary Name	: SEKOLAH KEBANGSAAN BOTA KIRI
Address	: Bota Kiri
District	: Bota
Postcode	: 32600
State	: Perak
GPS Coordinate	: 4.368941, 100.883019
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	65
2	Carriage Way Open trench (CW)	m	0
3	Grass Verge Open Trenching (GV)	m	0
4	Micro trenching (MT)	m	0
	Total		65

	Other Information	Unit	Qty
1	Proposed Manhole	EA	2
2	Proposed Pole	EA	76
3	Joint Closure	EA	2
4	Estimated time required for completion	days	30



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))



Local Authority Summary

1. Daerah Perak Tengah

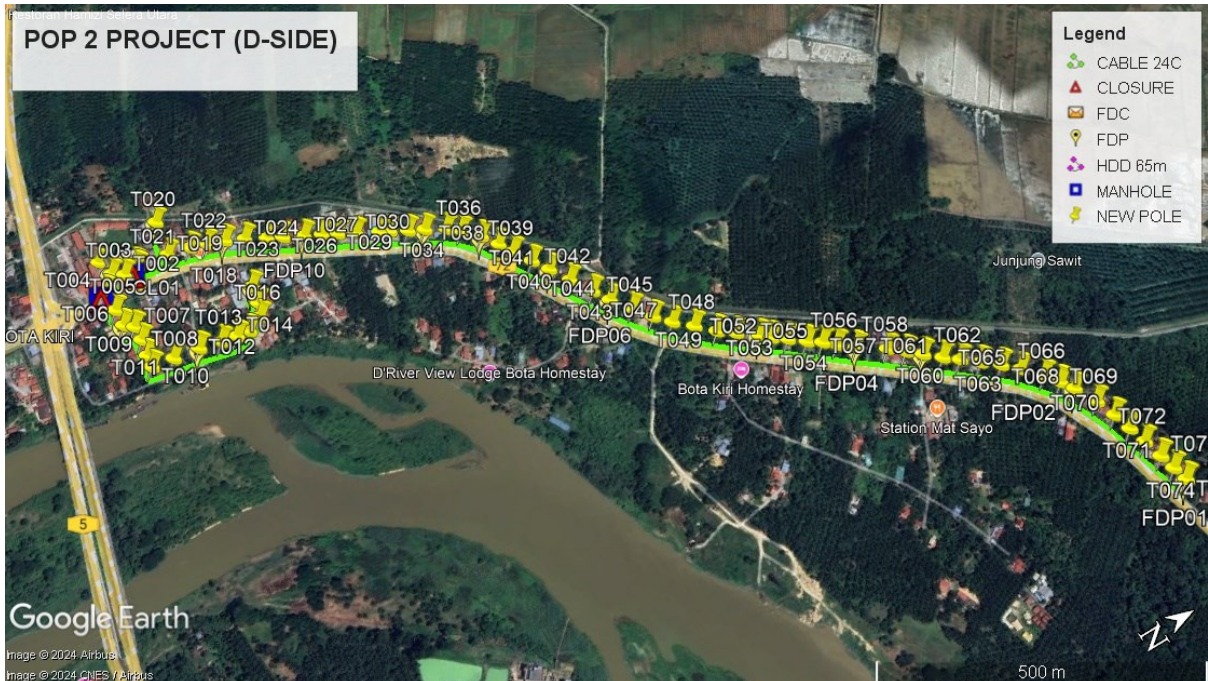
Bil	Items	Owner	Quantity	Distance(m)
1	HDD	JKR	1	65m
		Majlis	-	-
		Estate / Private Land	-	-
2	New Pole	JKR	61pcs	1960m
		Majlis	15pcs	565m
		Estate / Private Land	-	-
3	Existing TNB Pole	JKR	-	-
		Majlis	-	-
		Estate / Private Land	-	-
Total				2590m

Site Plan – KMZ (Overview site area)

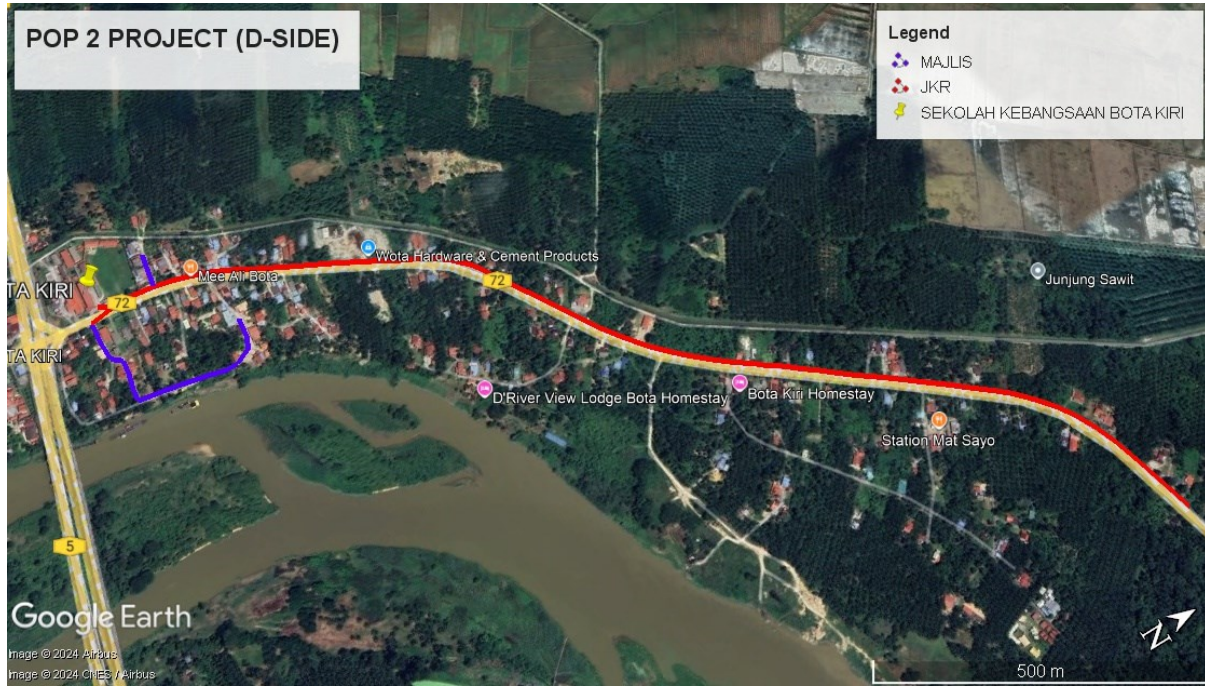
Proposed FDP and Closure



Proposed New Pole



Site Plan – KMZ Routing (All Local Authority)

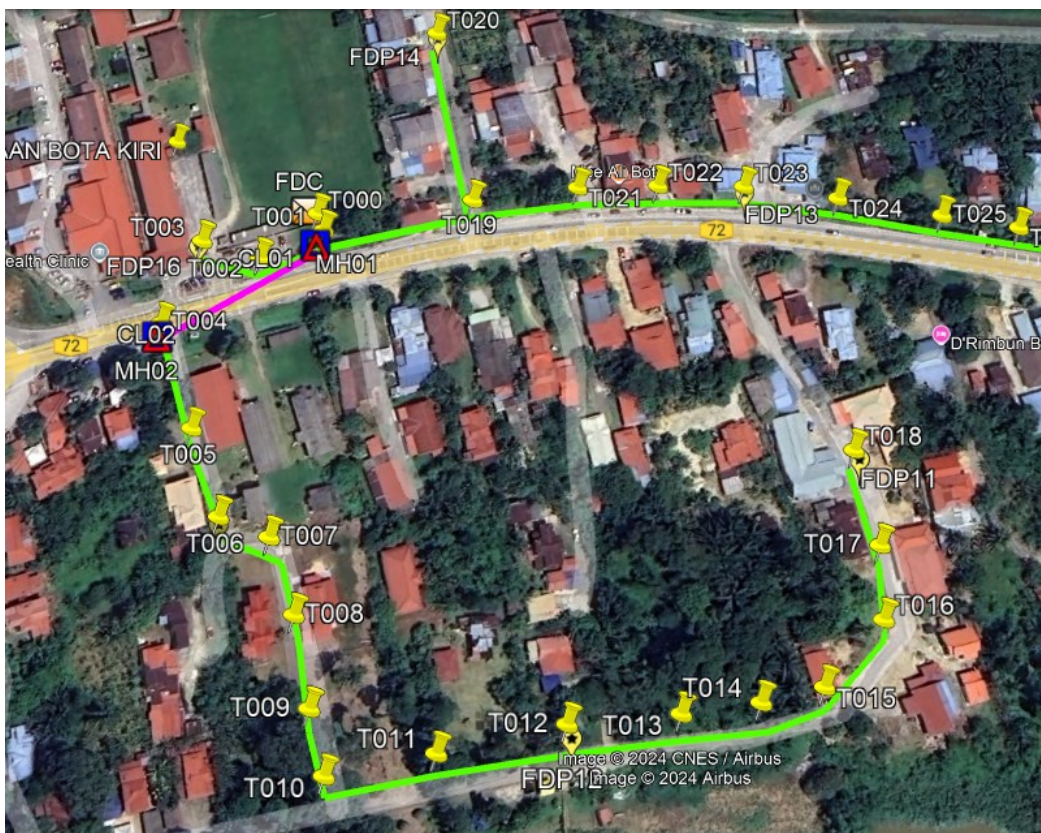
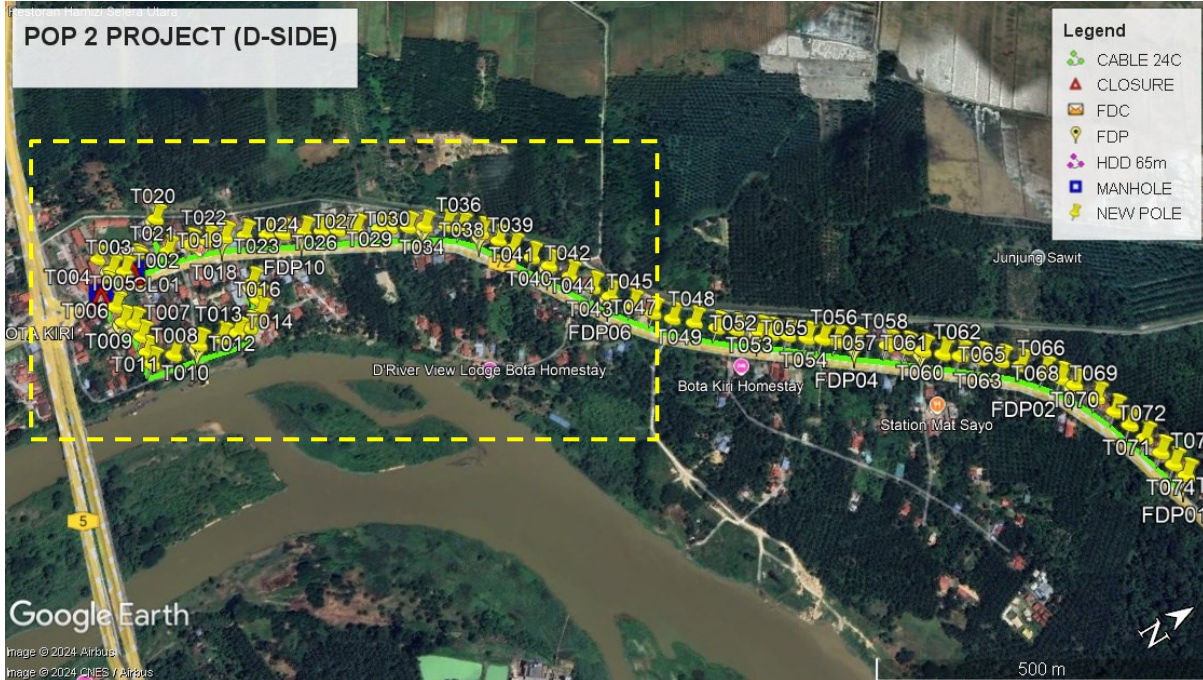


Red – JKR Perak

Blue - Majlis Perbandaran Perak Tengah

Site Plan – KMZ Routing (All site area)

Route 1



Route 1.1

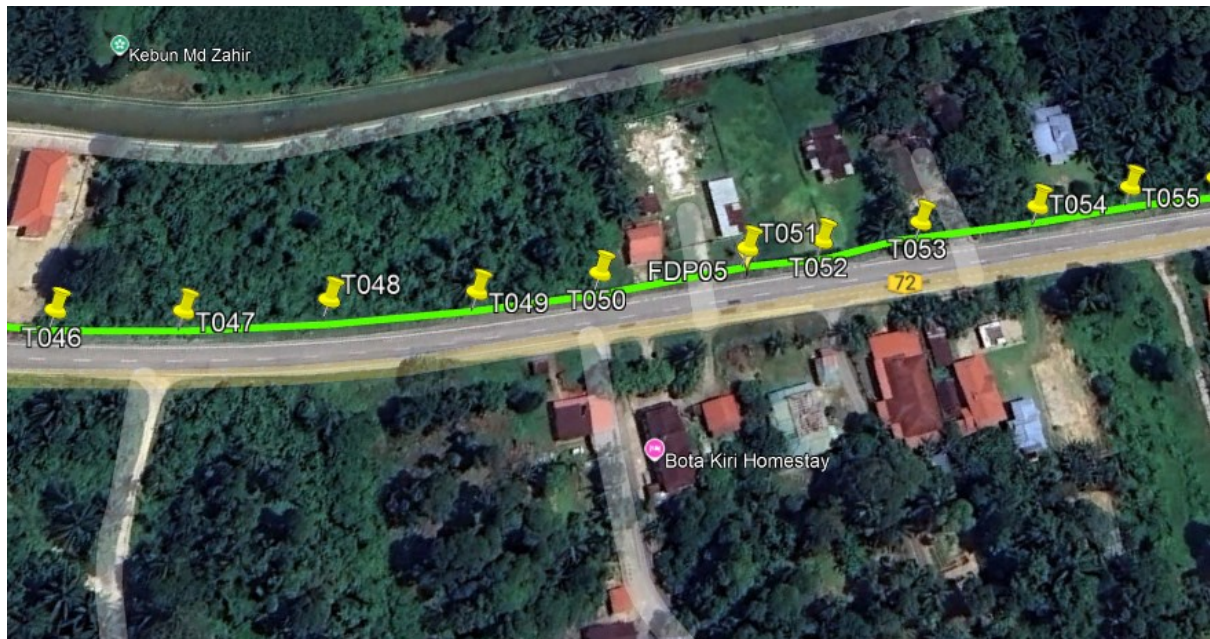
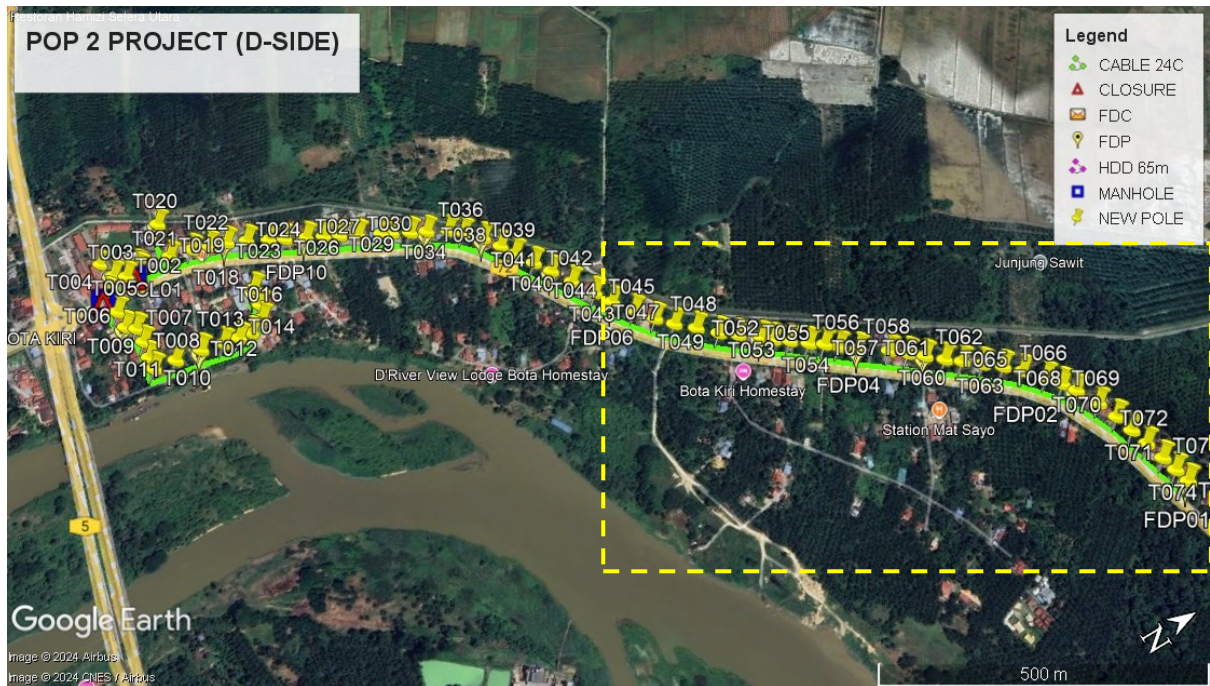


Route 1.2

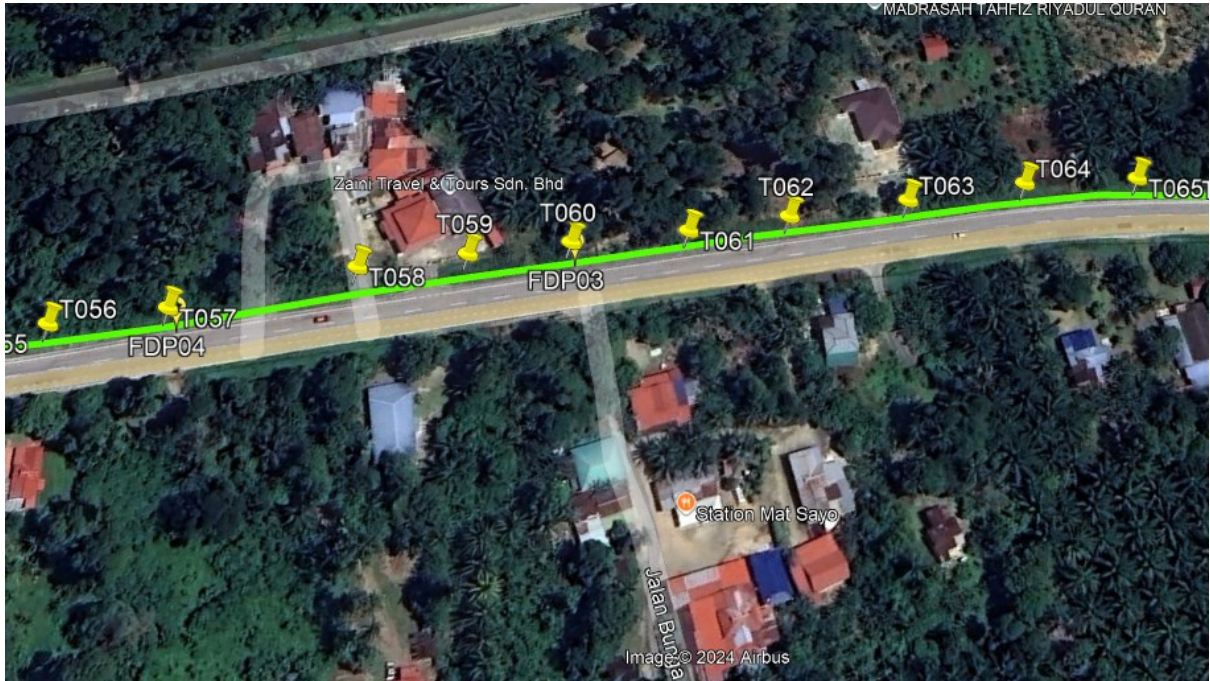


Route 1.3

Route 2



Route 2.1



Route 2.2



Route 2.3

Site Plan – KMZ Routing (Prop New Manhole)

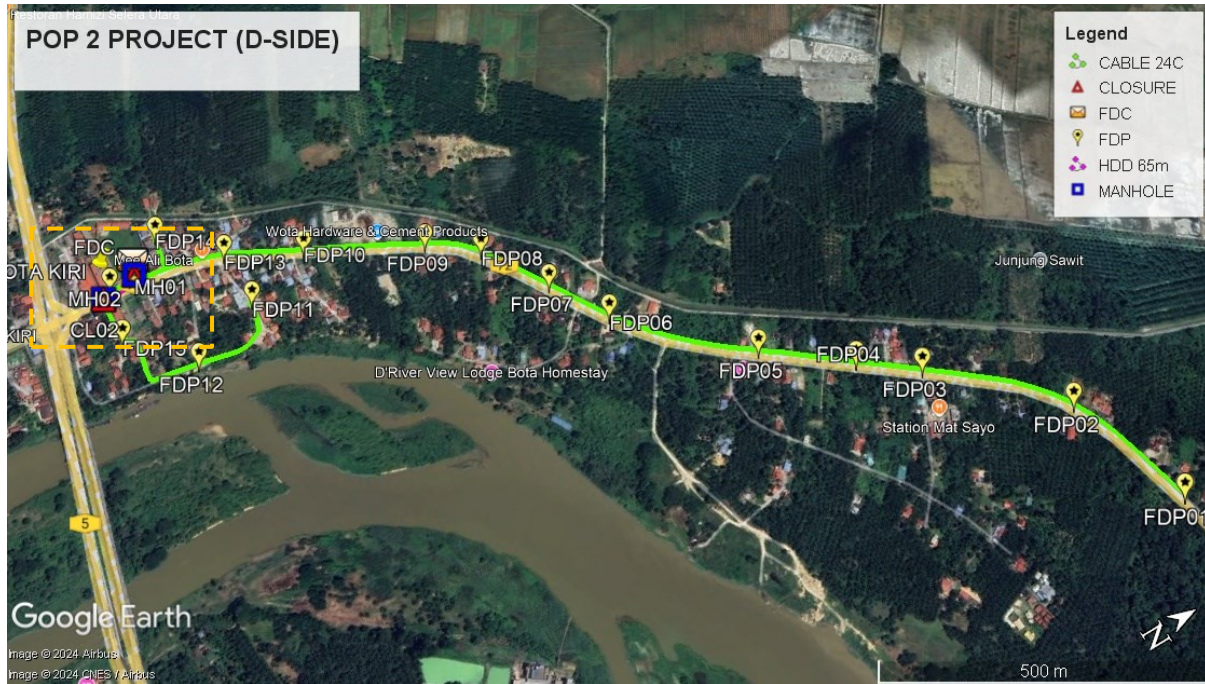


Figure 1: Location 1 (MH1- 4.357272, 100.871875) (MH2- 4.356708, 100.872018)

KMZ Plan

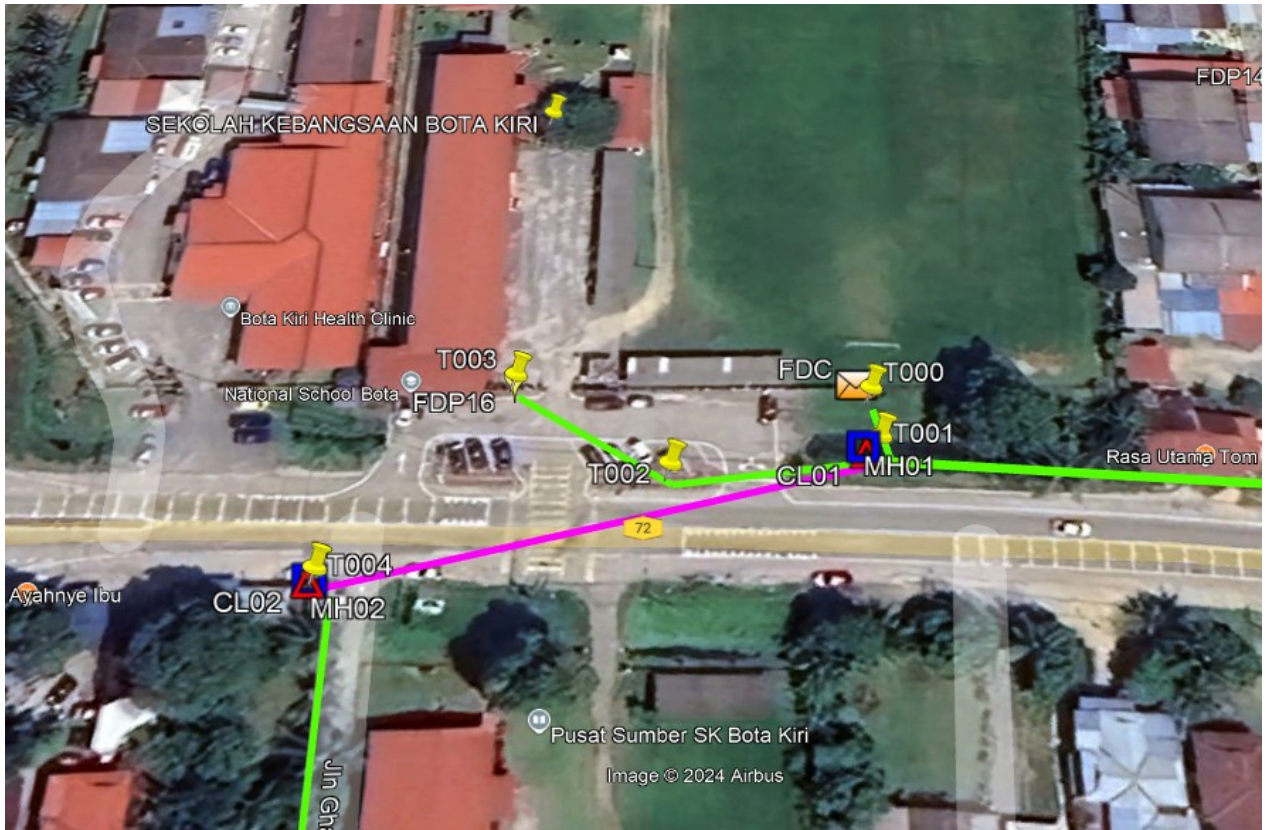


Figure 2: Location 1 (MH1- 4.357272, 100.871875) (MH2- 4.356708, 100.872018)

Site Plan – Google Map (routing plan, Manhole)





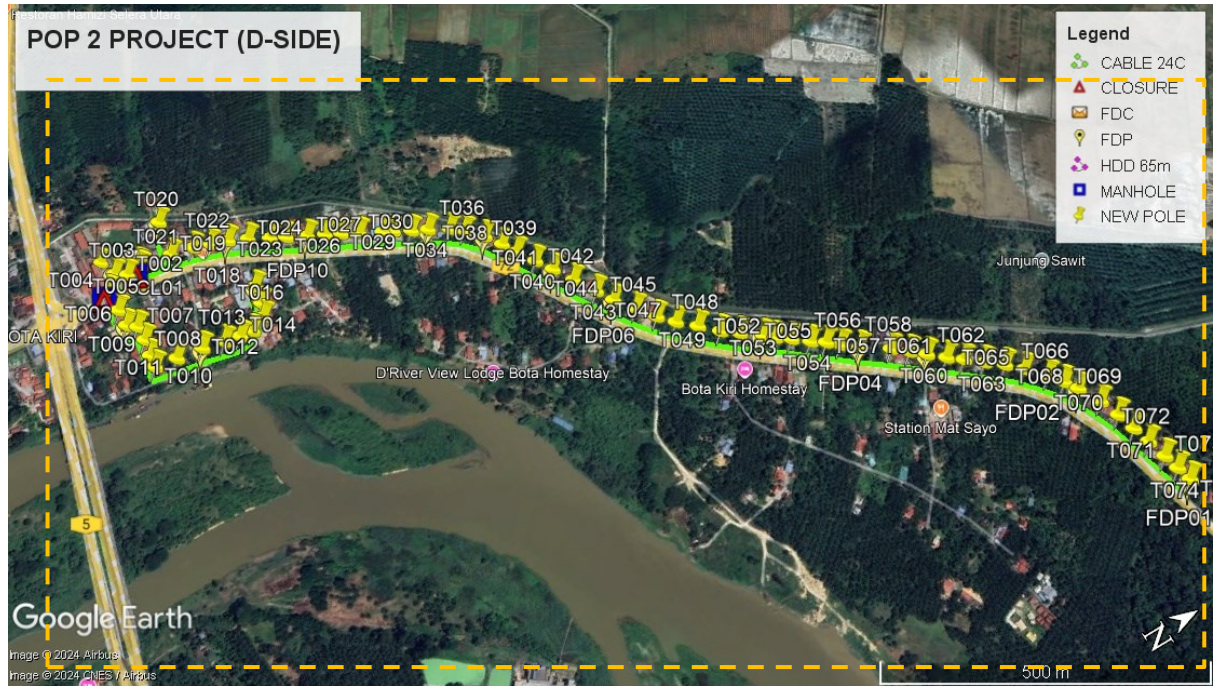
PROJEK PENYEDIAAN DAN PENYELENGGARAAN POINT OF PRESENCE (POP) FASA 2: HAB INFRASTRUKTUR GENTIAN OPTIK BERHAMPIRAN DENGAN SEKOLAH, KAWASAN PERINDUSTRIAN, PREMIS KERAJAAN DAN KOMUNITI SEKITARNYA OLEH KEMENTERIAN KOMUNIKASI MALAYSIA - ZON UTARA (KKMM.400-11/17/132(1))



Proposed New Manhole Lat & Long Table

PROPOSED MANHOLE COORDINATE		
MANHOLE NUMBER	LATITUDE	LONGITUDE
MH01	4.357272	100.871875
MH02	4.356708	100.872018

Site Plan – KMZ Routing (Proposed New Pole)



Overall Pole (Proposed New)

No.	Pole & Manhole ID	Distance	Latitude	Longitude	Local Authority
1	T000	0.00	4.357281152	100.8718054	JKR Perak
2	T001	7.07	4.357285472	100.8718687	JKR Perak
3	T002	24.95	4.35706307	100.8718966	JKR Perak
4	T003	22.63	4.356898559	100.8717772	JKR Perak
5	T004	33.69	4.356706677	100.8720112	JKR Perak
6	T005	41.68	4.356716634	100.8723855	Majlis Perbandaran Perak Tengah
7	T006	33.85	4.356729129	100.8726894	Majlis Perbandaran Perak Tengah
8	T007	19.41	4.356862293	100.8728019	Majlis Perbandaran Perak Tengah
9	T008	28.65	4.356873992	100.873059	Majlis Perbandaran Perak Tengah
10	T009	32.05	4.356846821	100.8733456	Majlis Perbandaran Perak Tengah
11	T010	22.70	4.356838246	100.8735493	Majlis Perbandaran Perak Tengah
12	T011	37.46	4.357171816	100.8735933	Majlis Perbandaran Perak Tengah
13	T012	44.11	4.357565649	100.8736371	Majlis Perbandaran Perak Tengah
14	T013	38.20	4.357899217	100.8737178	Majlis Perbandaran Perak Tengah
15	T014	27.00	4.358137455	100.8737634	Majlis Perbandaran Perak Tengah
16	T015	21.97	4.35833401	100.8737816	Majlis Perbandaran Perak Tengah
17	T016	30.47	4.358574179	100.8736503	Majlis Perbandaran Perak Tengah
18	T017	25.49	4.358645195	100.8734327	Majlis Perbandaran Perak Tengah
19	T018	34.53	4.358674649	100.8731239	Majlis Perbandaran Perak Tengah
20	T019	166.67	4.357779415	100.8719238	JKR Perak
21	T020	70.52	4.357839175	100.8712931	Majlis Perbandaran Perak Tengah
22	T021	84.02	4.358121932	100.8719929	JKR Perak
23	T022	29.62	4.358376084	100.8720718	JKR Perak
24	T023	31.68	4.358644652	100.8721661	JKR Perak
25	T024	34.95	4.358926071	100.8723052	JKR Perak
26	T025	38.53	4.35922915	100.8724723	JKR Perak
27	T026	28.37	4.359453374	100.8725934	JKR Perak
28	T027	37.01	4.359749324	100.8727449	JKR Perak
29	T028	31.26	4.359998651	100.8728742	JKR Perak
30	T029	28.13	4.360221534	100.8729931	JKR Perak

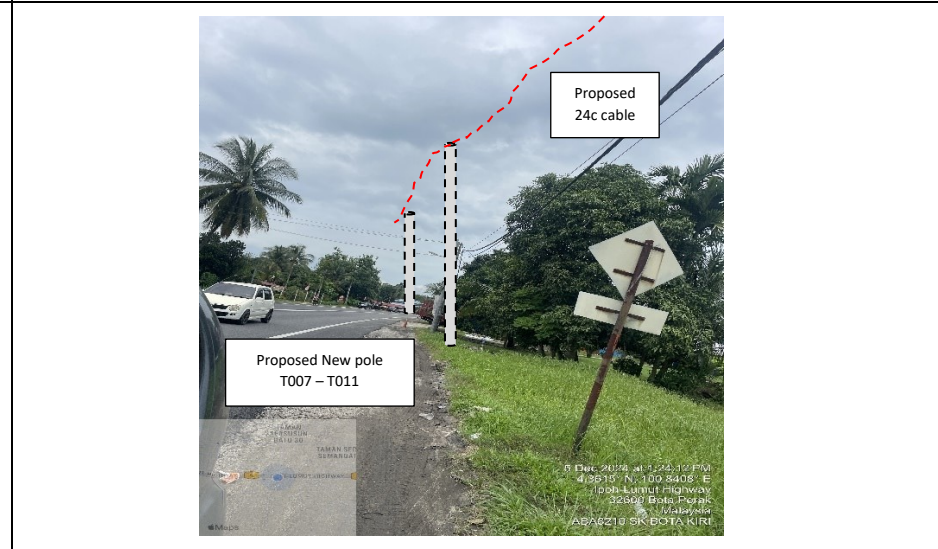
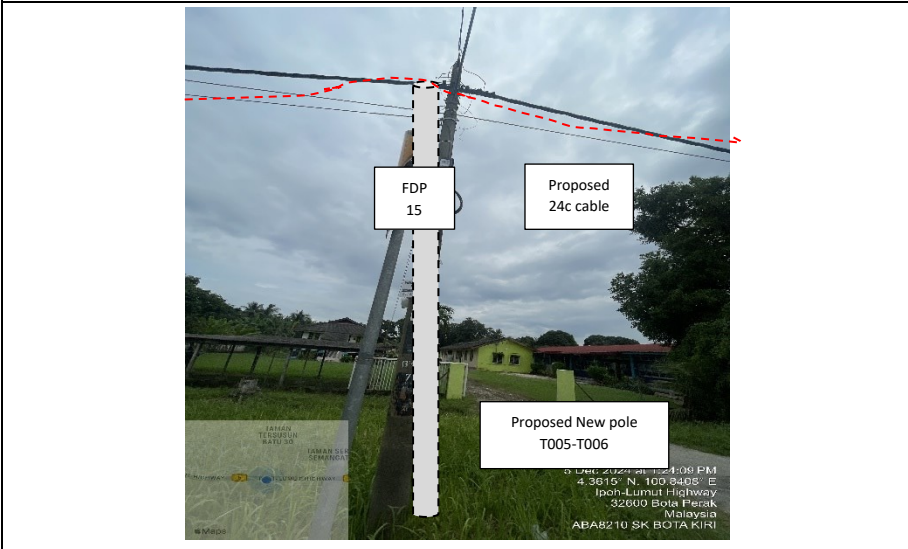
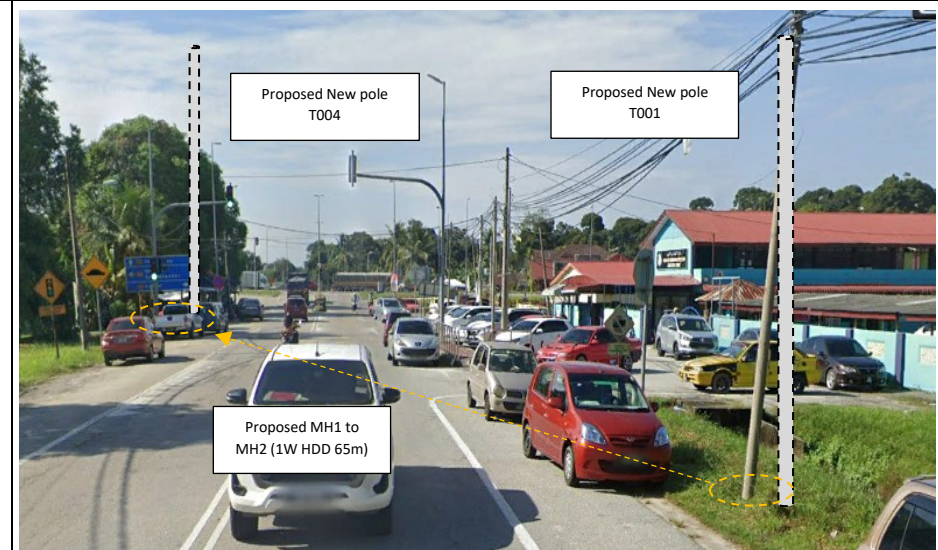
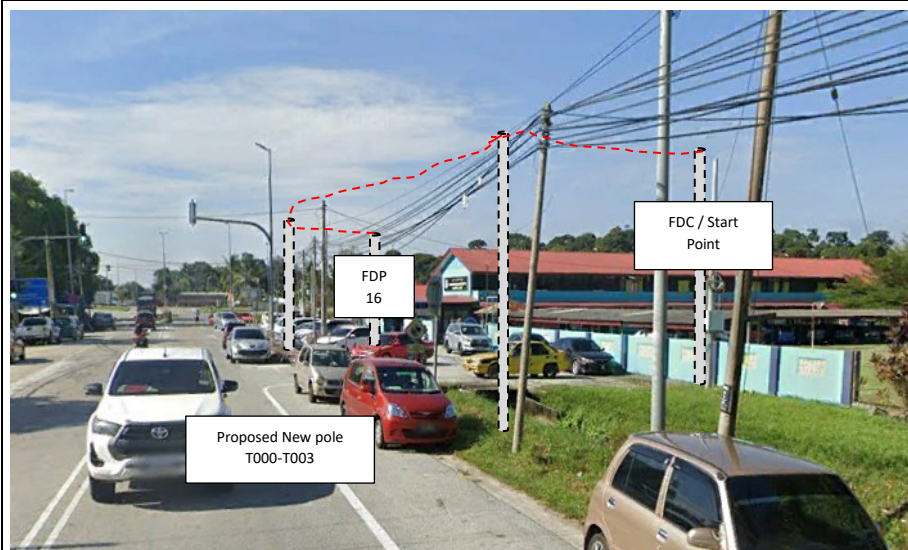


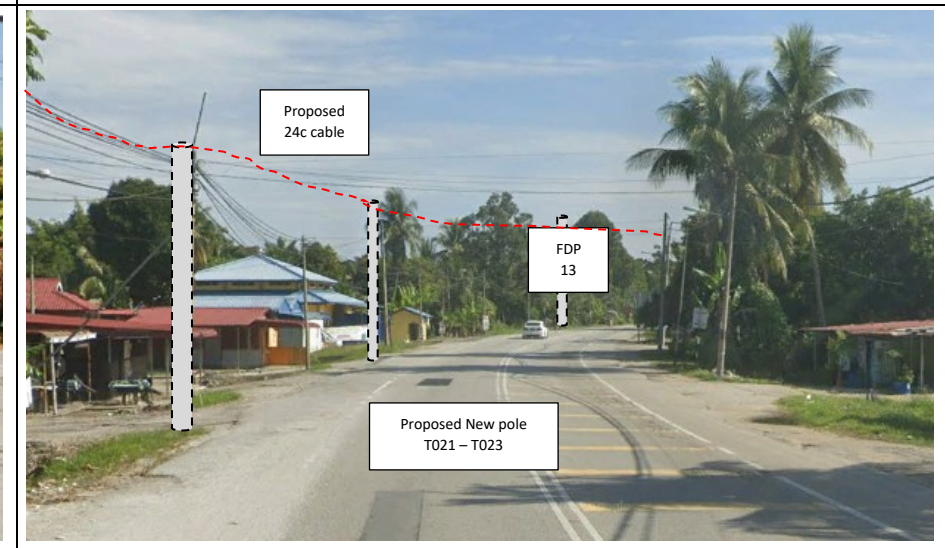
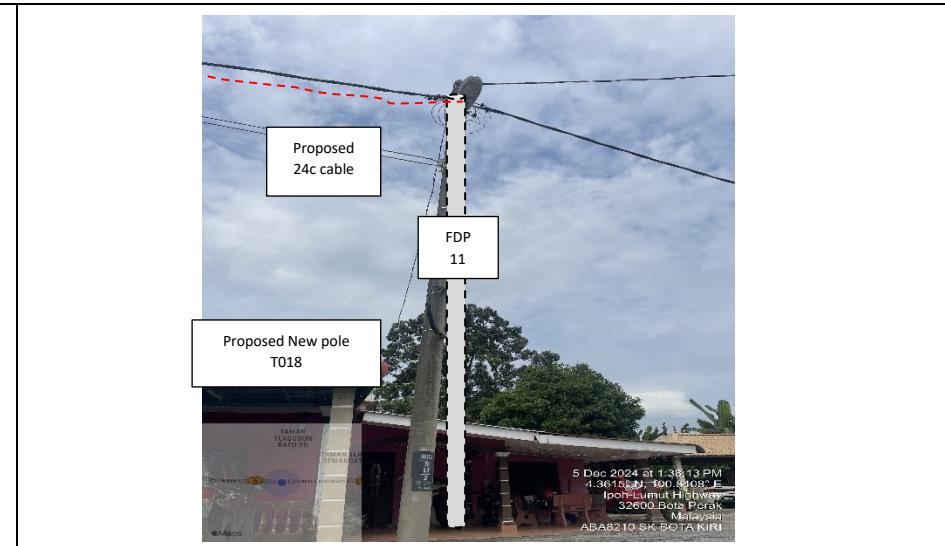
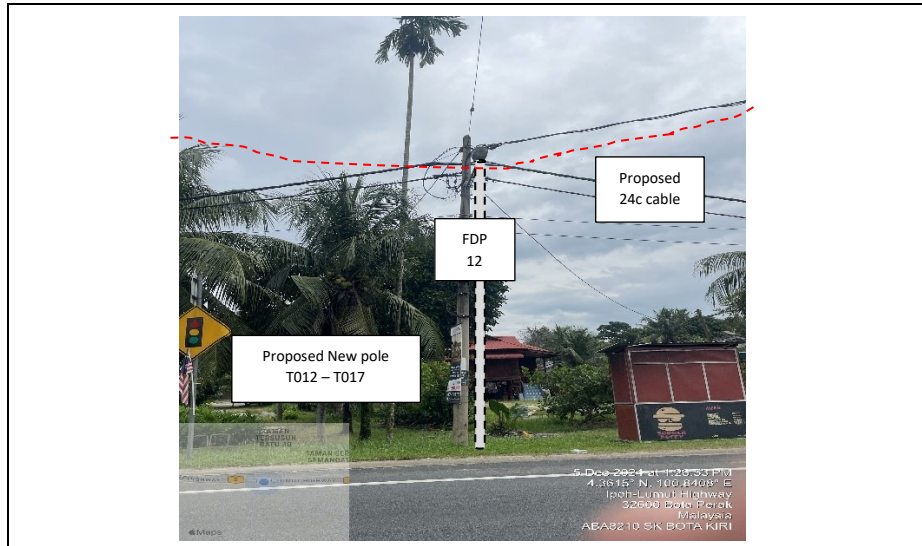
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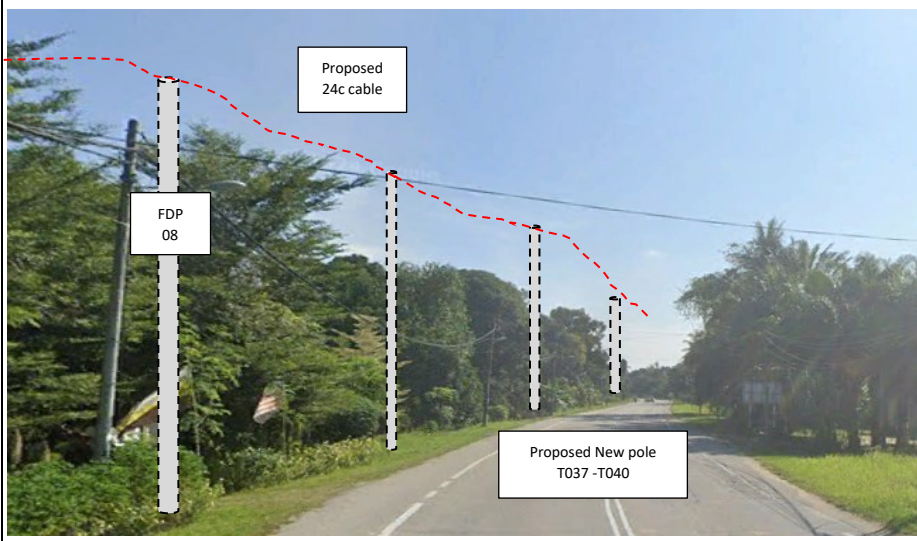
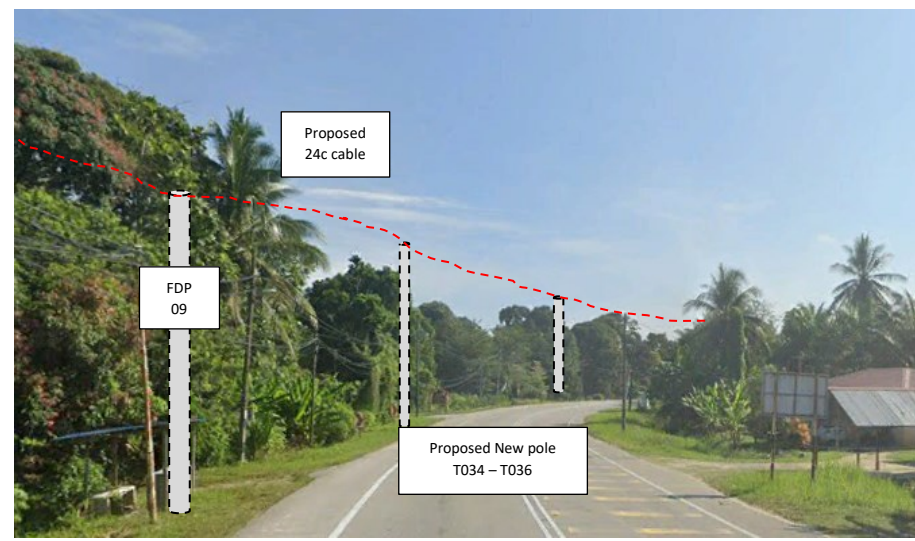
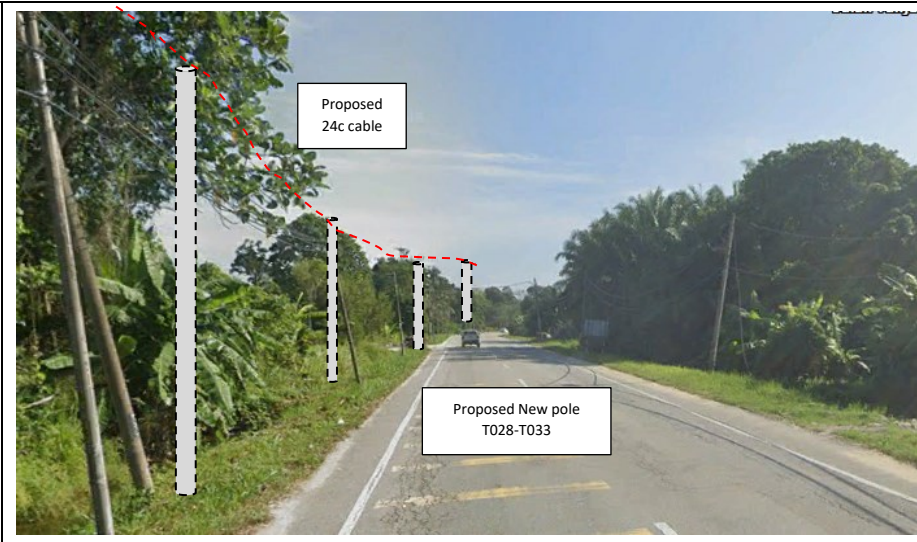
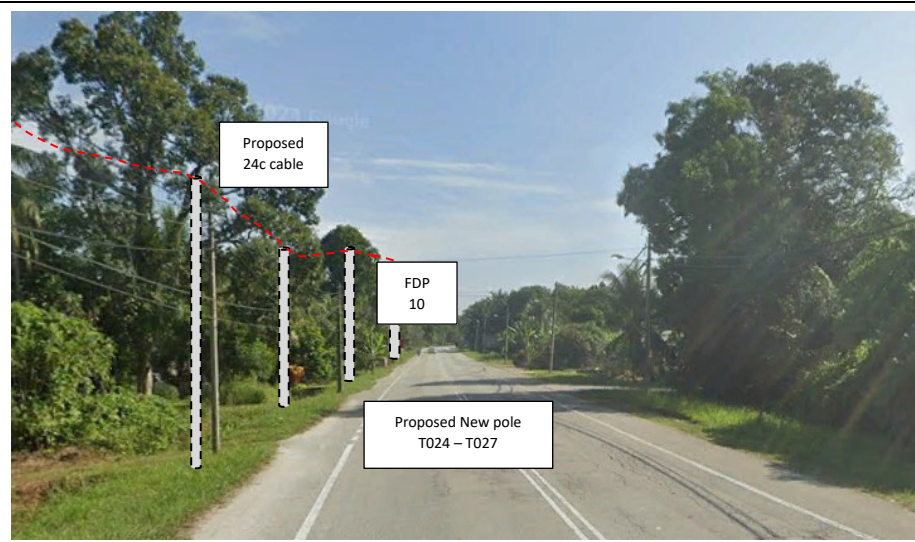


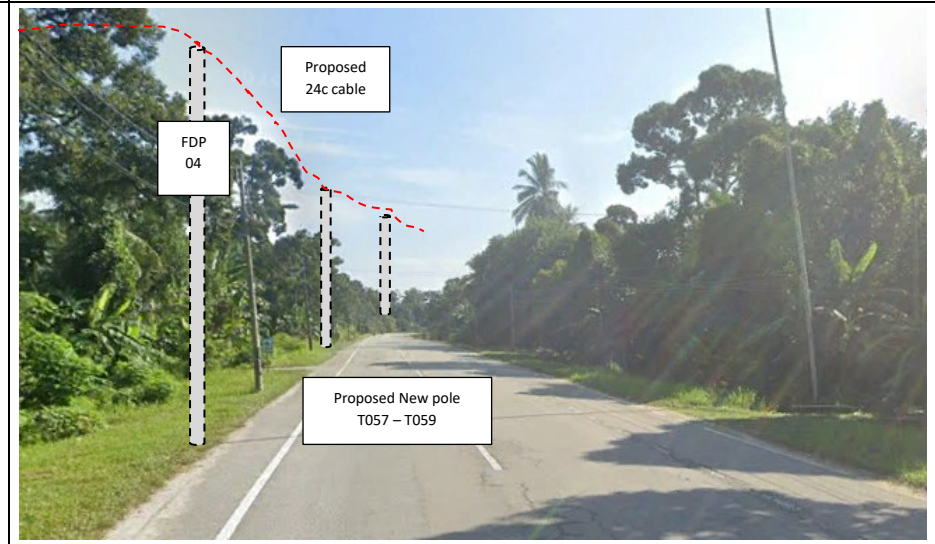
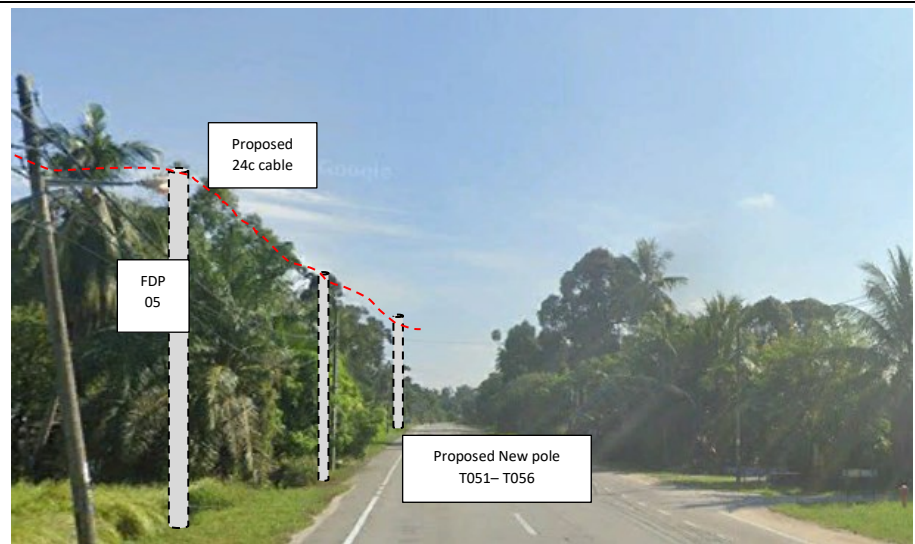
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36	T035	38.12	4.361725007	100.8738223	JKR Perak
37	T036	27.14	4.36191077	100.8739801	JKR Perak
38	T037	36.90	4.362136027	100.8742233	JKR Perak
39	T038	35.21	4.362302931	100.874492	JKR Perak
40	T039	29.77	4.362435146	100.8747245	JKR Perak
41	T040	37.68	4.362603899	100.8750179	JKR Perak
42	T041	34.71	4.362766473	100.875284	JKR Perak
43	T042	41.97	4.362949171	100.8756138	JKR Perak
44	T043	44.55	4.3631497	100.8759601	JKR Perak
45	T044	34.45	4.363301156	100.87623	JKR Perak
46	T045	41.57	4.363517009	100.8765347	JKR Perak
47	T046	38.56	4.36372006	100.8768153	JKR Perak
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53	T052	20.16	4.365073181	100.8780542	JKR Perak
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56	T055	26.49	4.365689037	100.8785253	JKR Perak
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58	T057	32.75	4.366077348	100.8788577	JKR Perak
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61	T060	29.14	4.366874955	100.8794788	JKR Perak
62	T061	33.33	4.367097687	100.879679	JKR Perak
63	T062	28.93	4.367299385	100.8798429	JKR Perak
64	T063	34.38	4.367537205	100.8800399	JKR Perak
65	T064	34.26	4.367776491	100.8802335	JKR Perak
66	T065	32.55	4.367981755	100.8804418	JKR Perak
67	T066	39.35	4.368214702	100.8807077	JKR Perak
68	T067	28.10	4.368358141	100.8809154	JKR Perak
69	T068	24.33	4.3684722	100.8811019	JKR Perak
70	T069	39.95	4.368618819	100.8814295	JKR Perak
71	T070	35.01	4.368705618	100.8817317	JKR Perak
72	T071	31.25	4.36875939	100.8820072	JKR Perak
73	T072	30.37	4.36880851	100.8822756	JKR Perak
74	T073	32.81	4.368862511	100.8825654	JKR Perak
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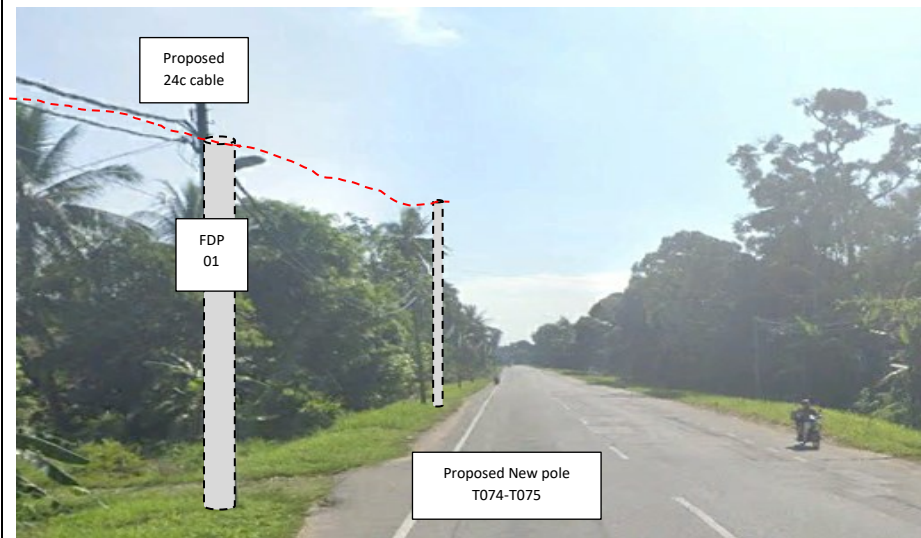
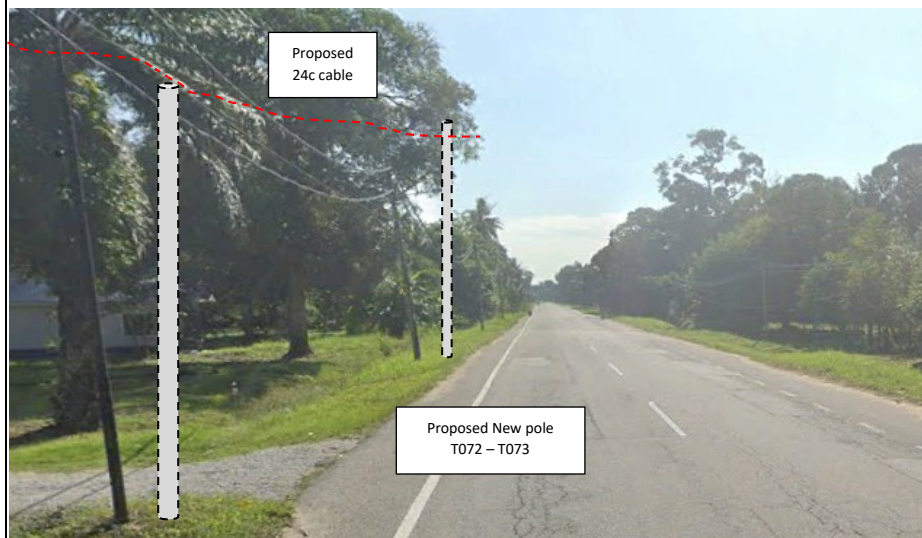
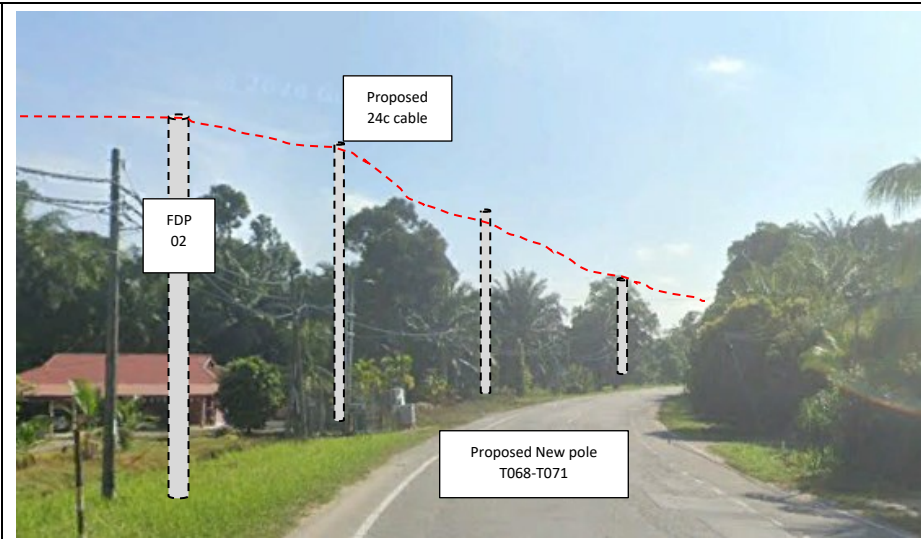
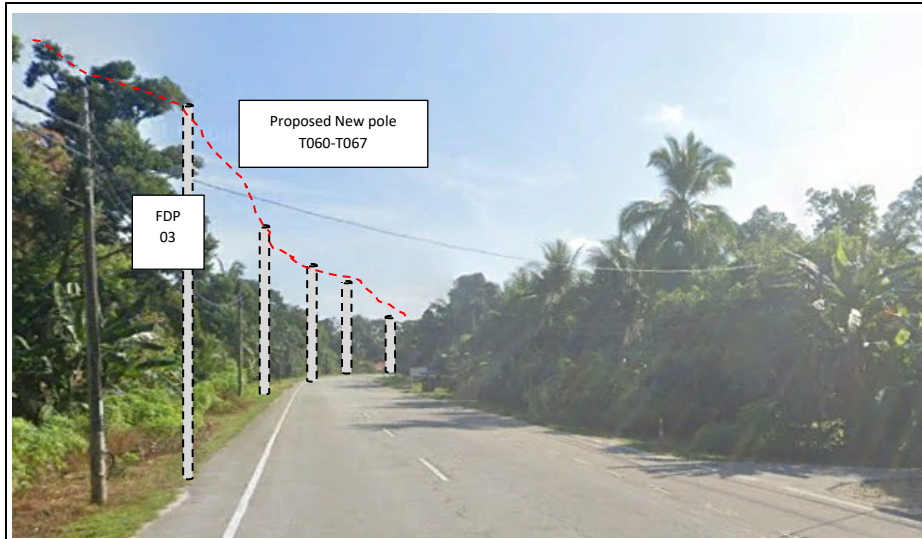
Site Photos – Proposed to install pole











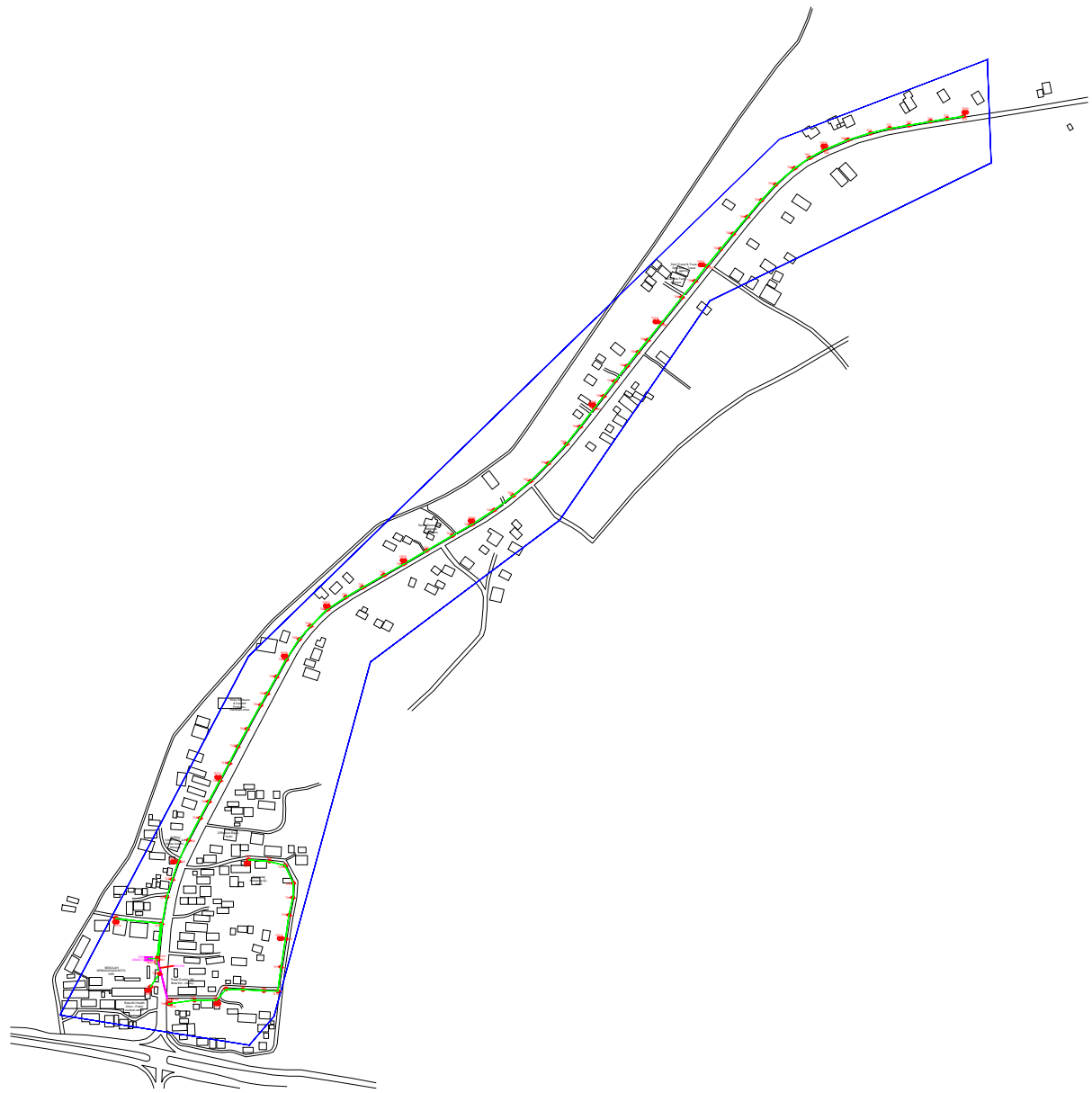


PROJEK PENYEDIAAN DAN PENYELENGGARAAN POINT OF PRESENCE (POP) FASA 2: HAB INFRASTRUKTUR GENTIAN OPTIK BERHAMPIRAN DENGAN SEKOLAH, KAWASAN PERINDUSTRIAN, PREMIS KERAJAAN DAN KOMUNITI SEKITARNYA OLEH KEMENTERIAN KOMUNIKASI MALAYSIA - ZON UTARA (KKMM.400-11/17/132(1))



3rd Parties Dependencies

No.	Local Council/ Authority	Remark
1	JKR Perak	
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	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	16	Existing Manhole	Active Outdoor Cabinet	CL01	Closure NO.	
144C FOC	Existing Closure	Installed Riser				Open Cut (Meter)	DP1	FDP NO.	

ACTUAL HOMEPASS :

KEY PLAN :


POP2 PROJECT IN PERAK

OWNER/DEVELOPER :



APEX COMMUNICATIONS SDN BHD
12th FLOOR, MENARA IMP SDN BHD,
52000-JELAU P. PERAK
KUALA LUMPUR

MAIN CONTRACTOR :



WCWL COMMUNICATIONS SDN BHD
127, JALAN P11 3/3, TAMAN PUNCAK JALIL,
BANDAR PUTRA PERANG, 43300 SERI KEMBANGAN, SELANGOR
TEL: +603 9388 5863
E-MAIL: info@wcwlcommunications.com.my

PROJECT TITLE :

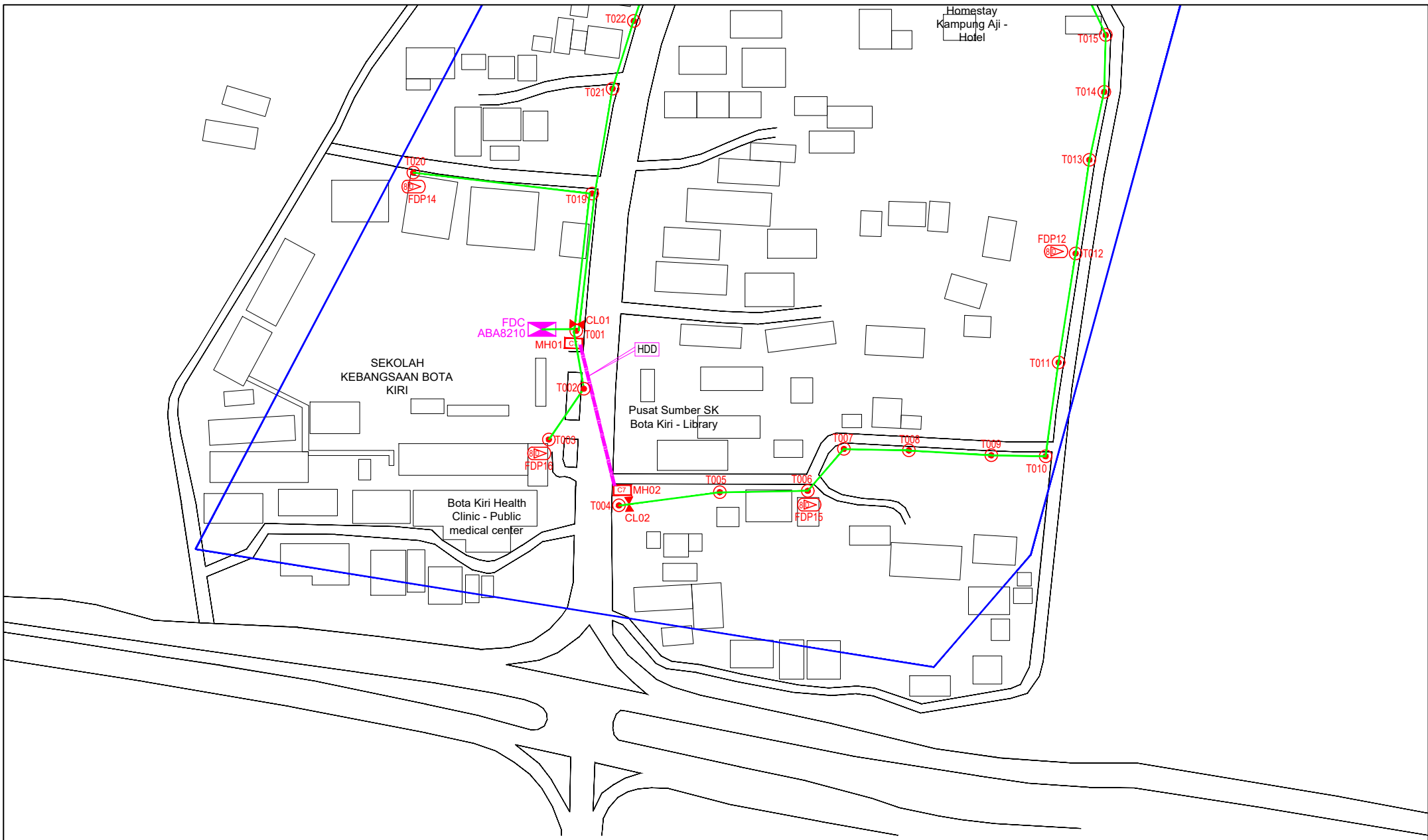
CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT

DRAWING TITLE:

AS-BUILT SITE PLAN DRAWING
ABA8210
SEKOLAH KEBANGSAAN BOTA KIRI

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 : ABA8210-ABD-01	Sheet : 1/6
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Size : A3	



LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.		
12C FOC	1	Installed 1:4 / 1:8 / 1:32 splitter	1	Installed Pole (9m)	1	Suspension	1	MS30 New Manhole (PIT)	1	Micro-Trenching (Meter)	1	MH1 MH NO.
24C FOC	259	Installed Patch Cord	1	Installed Pole (7.5M)	75	Tension	1	MS7 New Manhole(JRC7)	2	Temporary Infra (Meter)	1	TKS-1 Existing TNB Pole NO.
48C FOC	1	FDC	1	Installed Pole (6.7M)	1	Pole Ring	1	— FDC Boundary	1	Loop / Coil (Meter)	1	PO01 New Pole NO.
96C FOC	2	Closure	2	Existing TNB Pole	1	FDP with (1:8) splitter	16	HDD (Meter)	65	# Active Outdoor Cabinet	1	CL01 Closure NO.
144C FOC	1	Existing Closure	1	Installed Riser	1	Existing Manhole	1	— Open Cut (Meter)	1	CO1	1	DP1 FDP NO.

ACTUAL HOMEPASS :

KEY PLAN :

POP2 PROJECT IN PERAK

OWNER/DEVELOPER :

APEX COMMUNICATIONS SDN BHD
12th FLOOR, 109998 HPP SENANG, 50220 JALAN P. RAJALEA, KUALA LUMPUR

MAIN CONTRACTOR :

WCWL COMMUNICATIONS SDN BHD
127, JALAN PULU 3/2, TAMAN PUNCAK JALIL, BANGSAY PULUT, PERAK, 32300 SERI KEMBANGAN, SELANGOR
TEL: +603 9538 9933
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
ABA8210
SEKOLAH KEBANGSAAN BOTA KIRI

PROJECT PHASE:
POP 2

Design By : ENGINEER
Date : DEC 2024

Drawn By : CAD ENGINEER
Scale : NOT TO SCALE

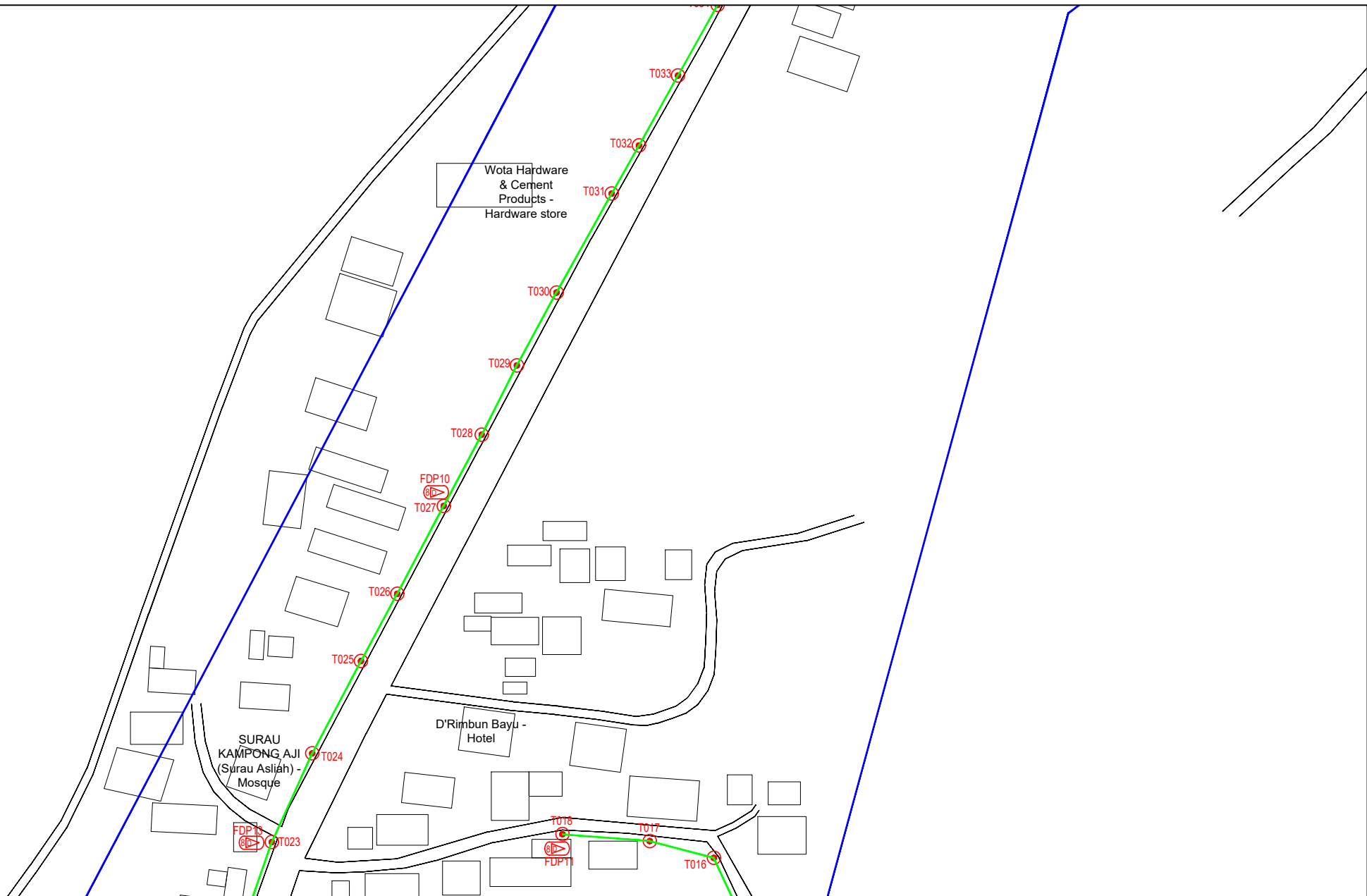
Checked By : ENGINEER
Job Number : 1

DRAWING NUMBER :
ABA8210-ABD-01A

Sheet :
2/6

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Size :
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LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.
12C FOC	1	Installed 1:4 / 1:8 / 1:32 splitter	1	Installed Pole (9m)	75	Suspension	1	New Manhole (PIT)	2
24C FOC	259	Installed Patch Cord	1	Installed Pole (7.5M)	75	Tension	1	New Manhole (JRC7)	2
48C FOC	259	FDC	1	Installed Pole (6.7M)	75	Pole Ring	1	FDP Boundary	1
96C FOC	2	Closure	2	Existing TNB Pole	16	FDP with (1:8) splitter	16	HDD (Meter)	65
144C FOC	2	Existing Closure	2	Installed Riser	1	Existing Manhole	1	Open Cut (Meter)	65

ACTUAL HOMEPASS :

KEY PLAN :

POP2 PROJECT IN PERAK

OWNER/DEVELOPER :



MAIN CONTRACTOR :

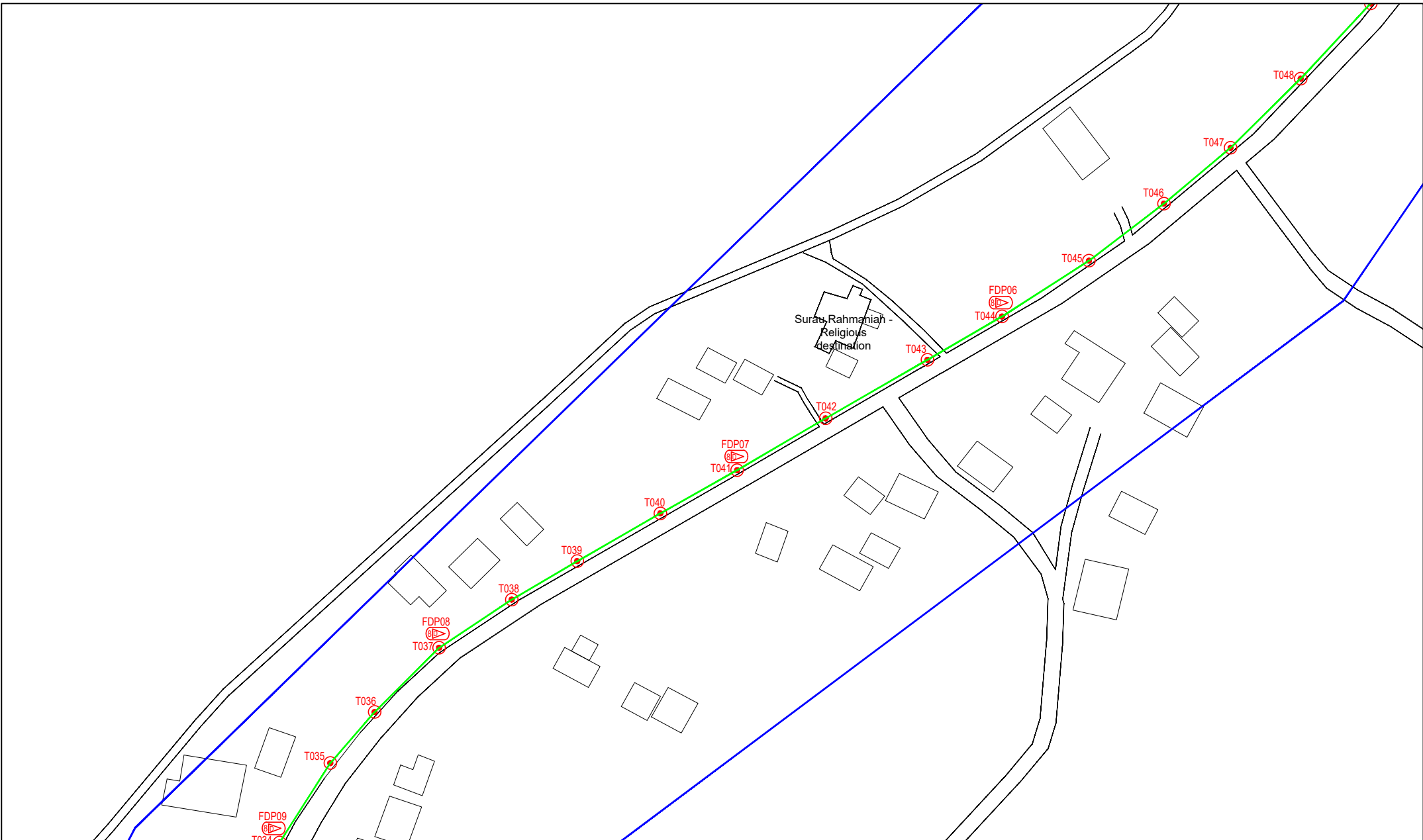
PROJECT TITLE :

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

DRAWING TITLE:
AS-BUILT SITE PLAN DRAWING
ABA8210
SEKOLAH KEBANGSAAN BOTA KIRI

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 : ABA8210-ABD-01B	Sheet : 3/6
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Size : A3	




LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.			
12C FOC	1	Installed 1:4 / 1:8 / 1:32 splitter	1	Installed Pole (9m)	1	Suspension	1	ES30 New Manhole (PIT)	1	Micro-Trenching (Meter)	1	MH1 MH NO.
24C FOC	259	Installed Patch Cord	1	Installed Pole (7.5M)	75	Tension	1	ES7 New Manhole(JRC7)	2	Temporary Infra (Meter)	1	TKS-1 Existing TNB Pole NO.
48C FOC	1	FDC	1	Installed Pole (6.7M)	1	Pole Ring	1	FDP Boundary	1	Loop / Coil (Meter)	1	P001 New Pole NO.
96C FOC	2	Closure	2	Existing TNB Pole	1	FDP with (1:8) splitter	16	HDD (Meter)	65	# Active Outdoor Cabinet	1	CL01 Closure NO.
144C FOC	1	Existing Closure	1	Installed Riser	1	Existing Manhole	1	Open Cut (Meter)	1	CO1 FDC NO.	1	DP1 FDP NO.

ACTUAL HOMEPASS :

KEY PLAN :

POP2 PROJECT IN PERAK

OWNER/DEVELOPER :



APEX COMMUNICATIONS SDN BHD
1208 FLOOR, MENARA HAP SENG,
30020 JALAN P. PRAKEL,
KUALA LUMPUR

MAIN CONTRACTOR :



WCWL COMMUNICATIONS SDN BHD
127, JALAN PULU 3/2, TAMAN PUNCAK JAL,
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TEL: +603 8989 5903
E-MAIL: info@wccommunications.com.my

PROJECT TITLE :

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

DRAWING TITLE:

AS-BUILT SITE PLAN DRAWING
ABAB210
SEKOLAH KEBANGSAAN BOTA KIRI

PROJECT PHASE:
POP 2

Design By : ENGINEER
Date : DEC 2024

Drawn By : CAD ENGINEER
Scale : NOT TO SCALE

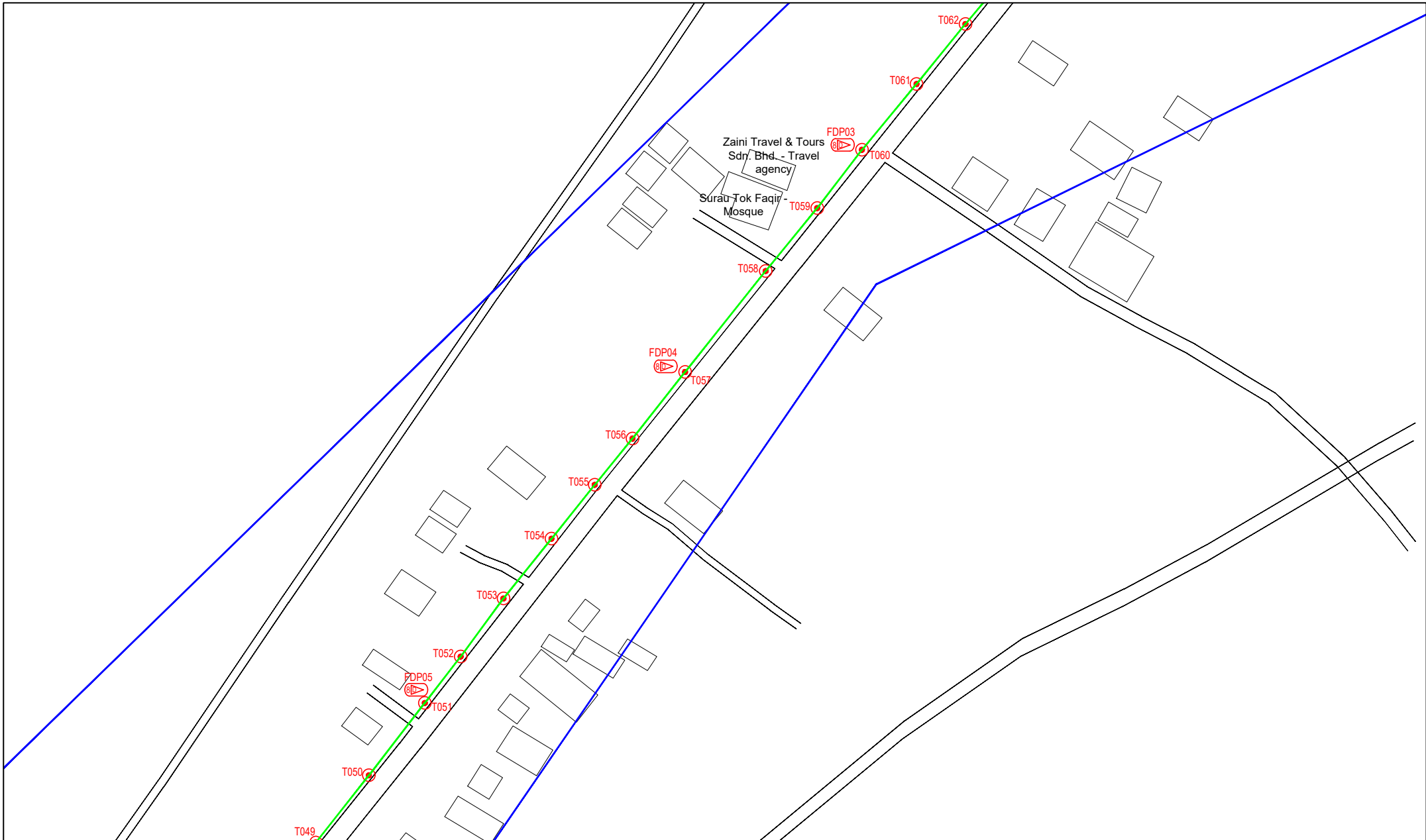
Checked By : ENGINEER
Job Number : 1

DRAWING NUMBER :
ABAB210-ABD-01C

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Sheet :
4/6

Size :
A3



LEGEND	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	16	HDD (Meter)	#	CL01	Closure NO.	
144C FOC	Existing Closure	Installed Riser	Existing Manhole		Open Cut (Meter)	CO1	DP1	FDP NO.	

ACTUAL HOMEPASS :

KEY PLAN :

POP2 PROJECT IN PERAK

OWNER/DEVELOPER :

APEX COMMUNICATIONS SDN BHD
12th FLOOR, MENARA WFP SENI,
50250 JALAN P. RAJEE
KUALA LUMPUR

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PROJECT TITLE :

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

DRAWING TITLE:
AS-BUILT SITE PLAN DRAWING
ABAB210
SEKOLAH KEBANGSAAN BOTA KIRI

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 : ABAB210-ABD-01D	Sheet : 5/6
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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	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)	#	CL01	Closure NO.		
144C FOC	Existing Closure	Installed Riser	Existing Manhole		Open Cut (Meter)	CO1	DP1	FDP NO.		

ACTUAL HOMEPASS :

KEY PLAN :

POP2 PROJECT IN PERAK

OWNER/DEVELOPER :



APEX COMMUNICATIONS SDN BHD
12th FLOOR, MENARA 118P SENANG,
20200, JALAN P. PANGLOSS,
KUALA LUMPUR

MAIN CONTRACTOR :



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PROJECT TITLE :

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

DRAWING TITLE:

AS-BUILT SITE PLAN DRAWING
ABA8210
SEKOLAH KEBANGSAAN BOTA KIRI

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 : ABA8210-ABD-01E	Sheet : 6/6
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