

## Maxis FTTH Project – Technical Proposal

Company Name	:	SAL NETWORK DESIGN SDN BHD
Company Address	:	NO 54-1, JALAN 8/23E, TAMAN DANAU KOTA, 53300 SETAPAK, KUALA LUMPUR
Prepared By	:	SAL NETWORK DESIGN SDN BHD
Date	:	19/02/2024



Site / Boundary Name	:	PROJECT F – PROTON CITY TANJUNG MALIM (COMMERCIAL ENTERPRISE )
Address	:	PROTON CITY
District	:	TANJUNG MALIM
Postcode	:	35900
State	:	PERAK
GPS Coordinate	:	FDC01 = Lat: 3.73891, Long: 101.52735 FDC02 = Lat: 3.72558, Long: 101.52313
Project	:	PROJECT F
LRD	:	PN03
Home pass / Premise pass Count	:	147 HP/PP
Date	:	19/02/2024

**1. Home Pass Summary & Details**

- 1.1. Total HP/PP Count: 147 HP/PP
- 1.2. FDC01: 147HP/PP
- 1.3. FDC02: UPSI PURPOSE

No.	FDC No.	Road / Location	Home pass / Premises pass count
1	FDC01	JALAN PULAI 1	106 HP/PP
2	FDC01	JALAN JELUTONG	3 HP/PP
3	FDC01	JALAN JELAWAI	13 HP/PP
4	FDC01	JALAN JELAWAI 1	8 HP/PP
5	FDC01	JALAN JELAWAI 2	11 HP/PP
6	FDC01	JALAN JELAWAI 3	5 HP/PP
7	FDC01	JALAN JELAWAI 4	1 HP/PP

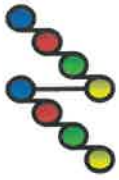
No.	FDC No.	Road / Location	Home pass / Premises pass count
1	FDC02	OUTSIDE UPSI BOUNDARY	FOR UPSI PURPOSE

## 2. OLT / Mini OLT Summary & Details

### 2.1. OLT Summary



LRD	:	PROT
GPS Coordinate	:	LAT: 03.720278 LONG: 101.514508
Site / Building Name	:	PROT
Address	:	LOT 780 MUKIM HULU BERNAM TIMUR, DAERAH BATANG PADANG, TANJUNG MALIM, PERAK
OLT Model	:	



**3. OSP / ISP Summary & Details (OSP 2)**

**3.1. Propose Route Details & Site Map**



Point A LRD / Name	:	PROJECT F – PROTON CITY TANJUNG MALIM (COMMERCIAL ENTERPRISE)
Point A Address	:	FDC01: AT JALAN JELAWAI, PROTON CITY, 35900 TANJUNG MALIM, PERAK.
	:	FDC02: FDC02: AT JALAN JELAWAI 5, PROTON CITY, 35900 TANJUNG MALIM, PERAK.
Point A GPS Coordinate	:	FDC01 = Lat: 3.739030, Long: 101.527426 FDC02 = Lat: 3.72558, Long: 101.52313
Point B LRD / Name	:	PROT
Point B Address	:	AT LOT 780 MUKIM HULU BERNAM TIMUR, DAERAH BATANG PADANG, TANJUNG MALIM, PERAK
Point B GPS Coordinate	:	LAT: 03.720278 LONG: 101.514508
New build total distance (m)	:	2186m
Existing build total distance (m)	:	0m
Local Council & Authority approval Requirement	:	PROTON TANJUNG MALIM PROPERTY (2203) MALIS DAERAH TANJUNG MALIM (183m)

## 3.2. OSP &amp; ISP BOQ

<b>Overall Proposed OSP Civil Infrastructure Design Distance</b>		<b>Unit</b>	<b>Quantity</b>
1	Horizontal Directional Drilling with 1-way duct	M	2180
2	Horizontal Directional Drilling with 2-way duct	M	
3	Open trench on grass verge (GV) with 1-way duct	M	
4	Open trench on grass verge (GV) with 2-way duct	M	6
5	Open trench on carriage way (CW) with 1-way duct	M	
6	Open trench on carriage way (CW) with 2-way duct	M	
7	Micro trenching 3-way 40 mm HDPE sub-duct	M	

<b>Overall Propose Manhole / Handhole</b>		<b>Unit</b>	<b>Quantity</b>
1	Manhole JB30	Ea	
2	Manhole JB30 Modified	Ea	
3	Manhole JRC7	Ea	11
4	PIT	Ea	

<b>Overall Propose Pole / Overhead</b>		<b>Unit</b>	<b>Quantity</b>
1	7.5 m Pole Concrete	Ea	
2	9.0 m Pole Concrete	Ea	
3	G.I Riser	Ea	

<b>Overall, Cable Infrastructure Design Distance</b>		<b>Unit</b>	<b>Quantity</b>
1	48 Core Optical Fiber Cable UG/IB/ID	M	
2	96 Core Optical Fiber Cable UG/IB	M	
3	144 Core Optical Fiber Cable UG/IB/ID	M	4136

<b>Overall Optic Splice Design</b>		<b>Unit</b>	<b>Quantity</b>
1	Total Joint Closure	Ea	2

### 3.3. Civil Work's Detail (Manhole & Pole)

Overall Existing Manhole & Pole		GPS Coordinate	
No.	Manhole & Pole ID	Latitude	Longitude
1	B-LPC10-001-000M	3.738759	101.51182
2	B-LPC10-0002-000M	3.73716	101.51231

Overall Propose Manhole & Pole		GPS Coordinate	
No.	Manhole & Pole ID	Latitude	Longitude
1	PROP JRC7/01	3.736521	101.513084
2	PROP JRC7/02	3.736548	101.513855
3	PROP JRC7/03	3.737287	101.515687
4	PROP JRC7/04	3.737886	101.517733
5	PROP JRC7/05	3.738482	101.519742
6	PROP JRC7/06	3.738952	101.521294
7	PROP JRC7/07	3.739533	101.523267
8	PROP JRC7/08	3.740112	101.525214
9	PROP JRC7/09	3.74053	101.526838
10	PROP JRC7/10	3.73903	101.527426
11	PROP JRC7/23	3.72561	101.52312

3.4. OSP/ISP Photo Illustration.



**PICTURE 01: LOCATION AT JALAN PC10**



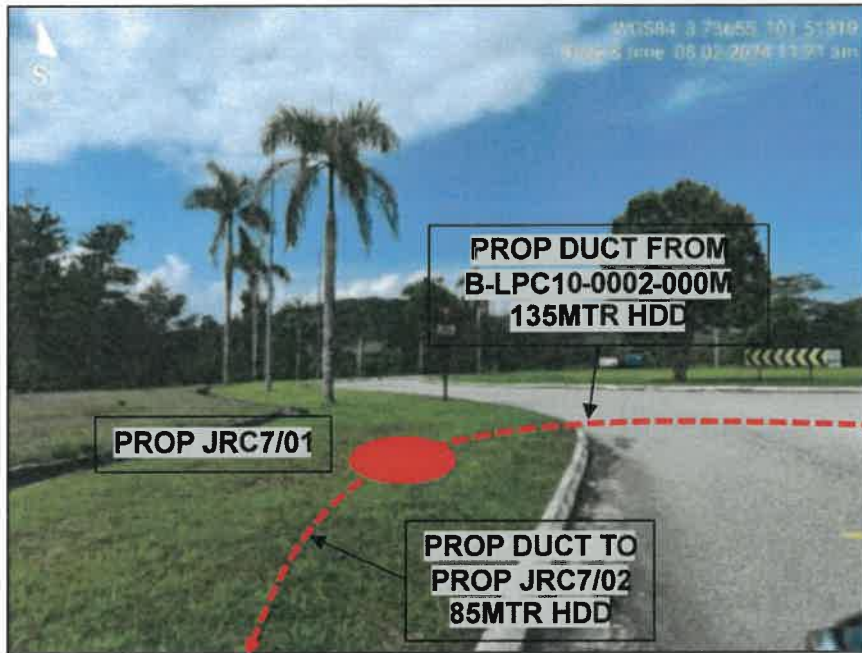
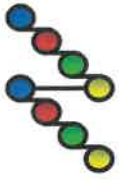
**PICTURE 02: LOCATION AT JALAN PC10**



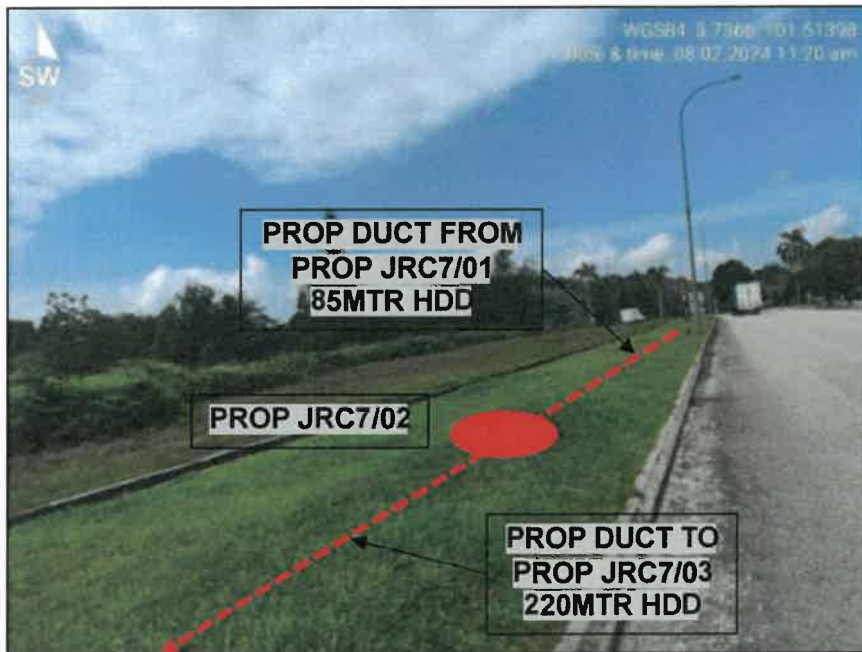
**PICTURE 03: LOCATION AT JALAN PC10**



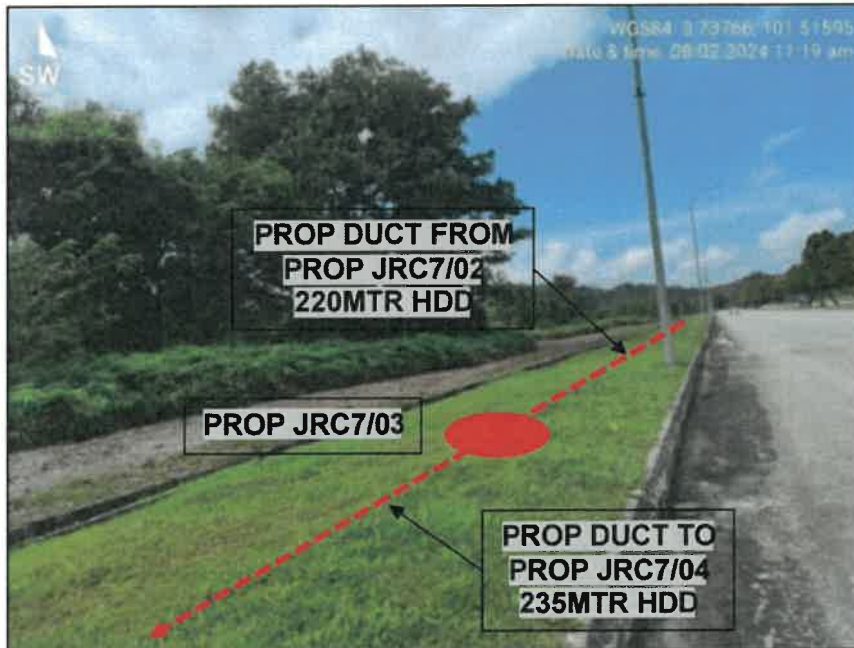
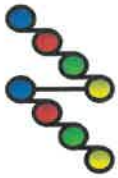
**PICTURE 04: LOCATION AT JALAN PC10**



PICTURE 05: LOCATION AT JALAN PC10



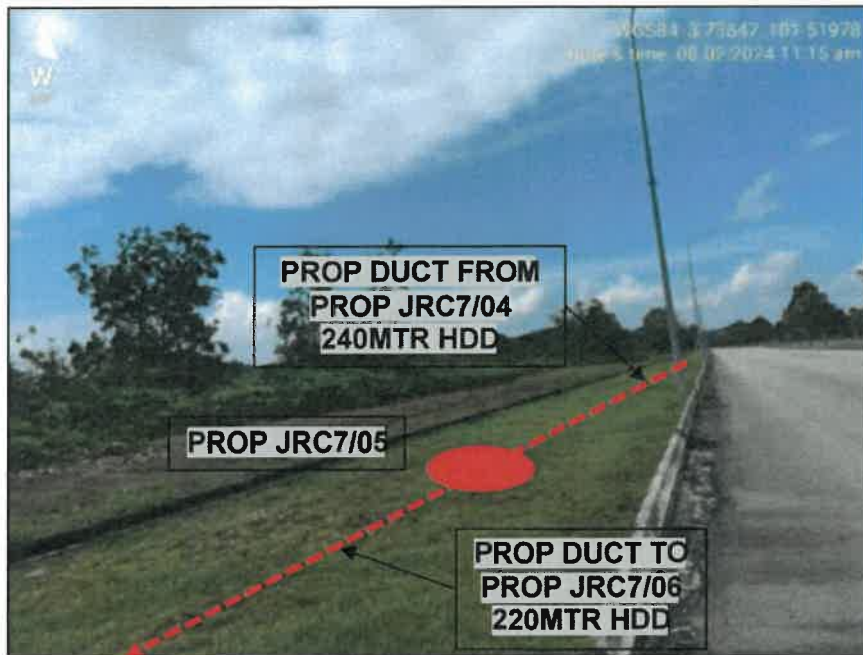
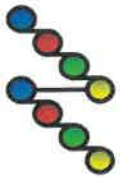
PICTURE 06: LOCATION AT JALAN PC10



**PICTURE 07: LOCATION AT JALAN PC10**



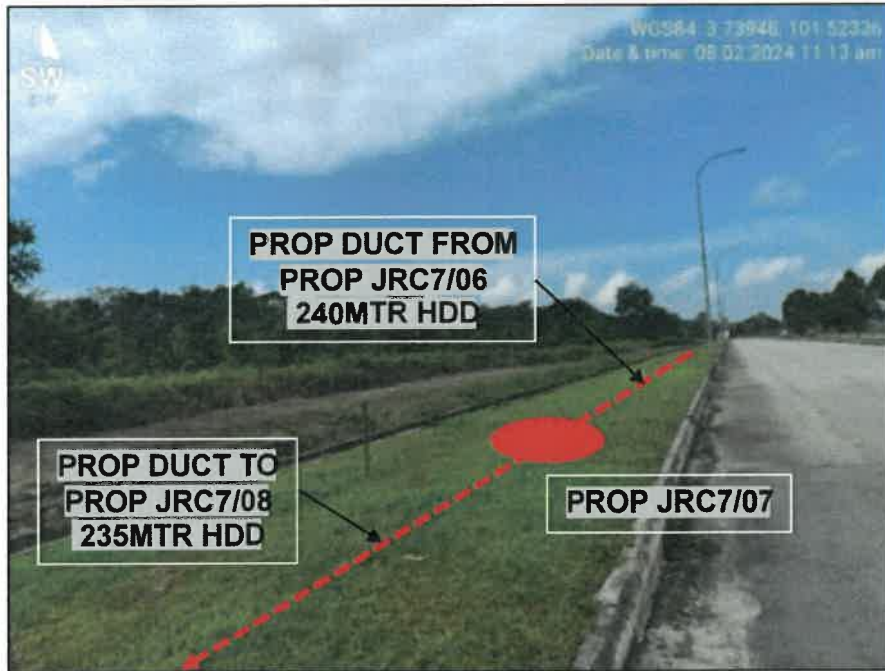
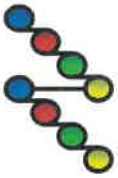
**PICTURE 08: LOCATION AT JALAN PC10**



**PICTURE 09: LOCATION AT JALAN PC10**



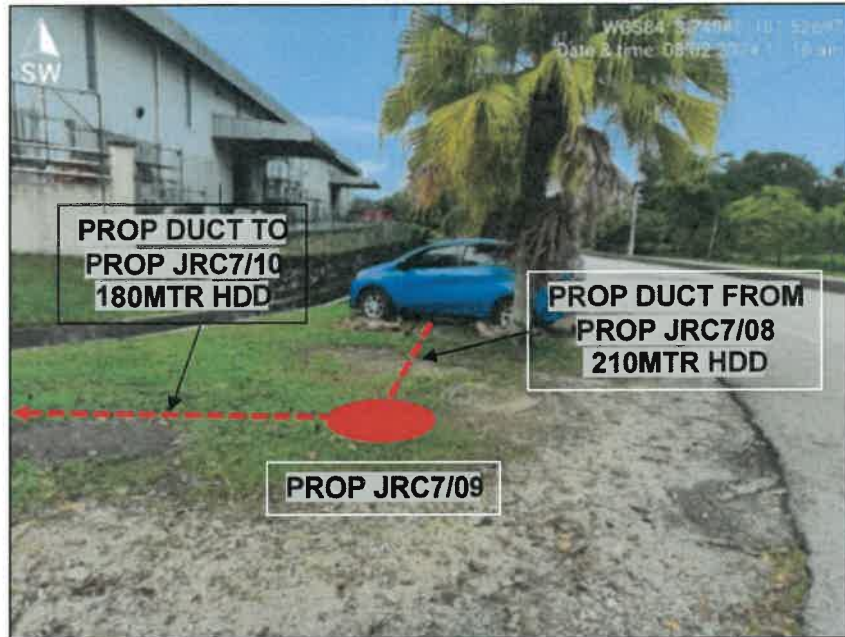
**PICTURE 10: LOCATION AT JALAN PC10**



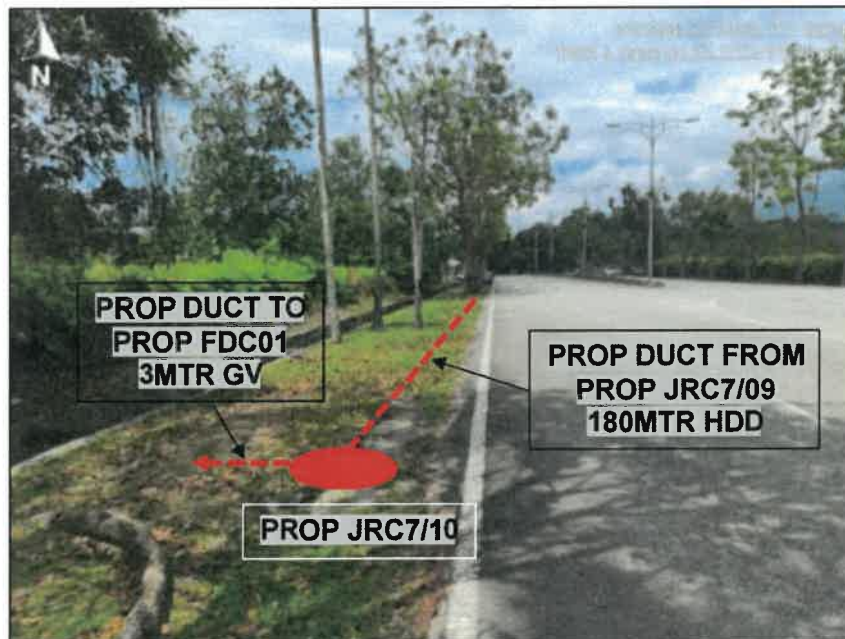
**PICTURE 11: LOCATION AT JALAN PC10**



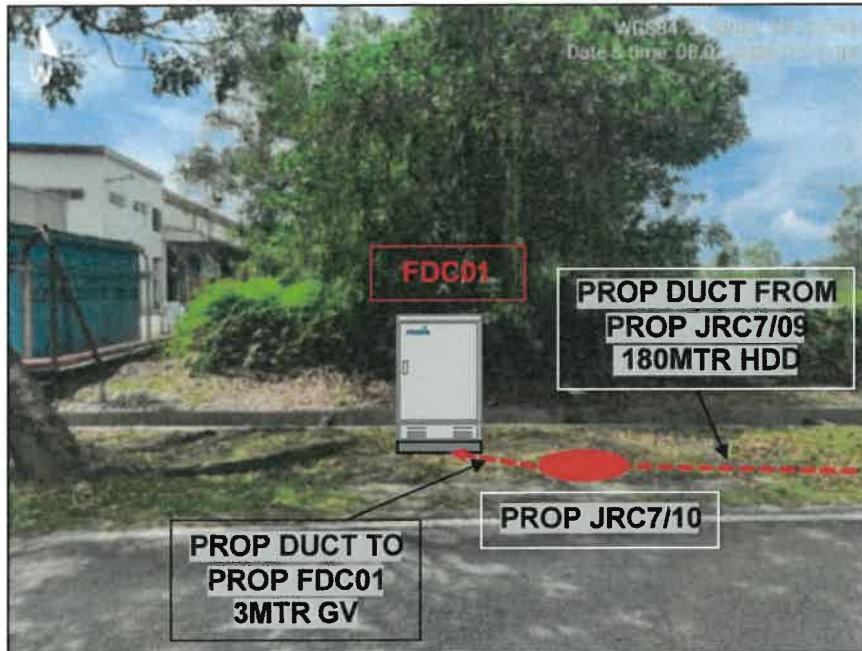
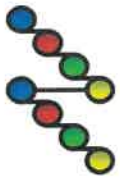
**PICTURE 12: LOCATION AT JALAN PC10**



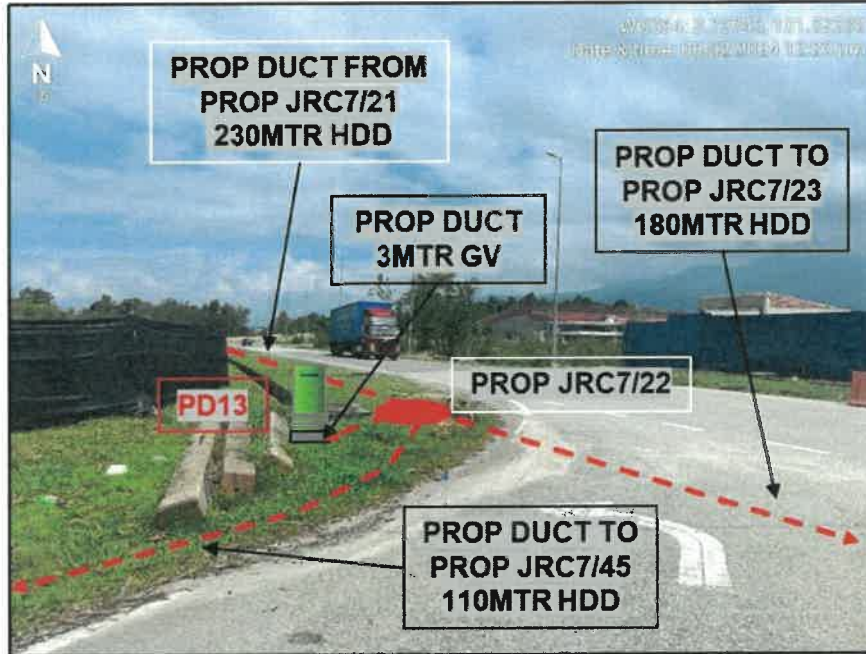
**PICTURE 13: LOCATION AT JALAN PC10**



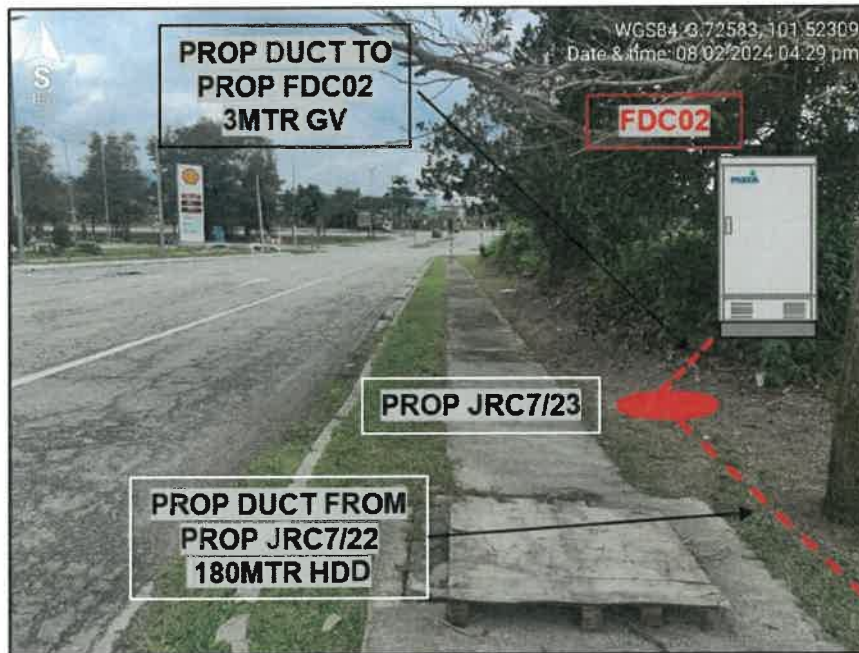
**PICTURE 14: LOCATION AT JALAN JELAWAI**



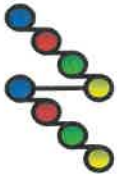
**PICTURE 15: LOCATION AT JALAN JELAWAI**



**PICTURE 16: LOCATION AT JALAN JELAWAI 5**



**PICTURE 17: LOCATION AT JALAN JELAWAI 5**



#### 4. Optical Distribution Network Summary & Details (ODN)

##### 4.1. Propose Route Details & Site Map



ODN Type	:	COMMERCIAL ENTERPRISE
FDC LRD	:	PROJECT F – PROTON CITY
FDC Address	:	FDC01: AT JALAN JELAWAI, PROTON CITY, 35900 TANJUNG MALIM, PERAK. FDC02: AT JALAN JELAWAI 5, PROTON CITY, 35900 TANJUNG MALIM, PERAK.
FDC GPS Coordinate	:	FDC01 = Lat: 3.739030, Long: 101.527426 FDC02 = Lat: 3.72558, Long: 101.52313
Total FDP count	:	25 FDP
Home pass / Premise pass Count	:	147 HP/PP
Date	:	19/02/2024
New build total distance (m)	:	5684m
Existing build total distance (m)	:	4825m
Local Council & Authority approval Requirement	:	PROTON TANJUNG MALIM PROPERTY (1610) MAJLIS DAERAH TANJUNG MALIM (5684m) MANAGEMENT UPSI (3215m)

#### 4.2. ODN BOQ (FDC01)

Overall Proposed OSP Civil Infrastructure Design Distance		Unit	Quantity
1	Horizontal Directional Drilling with 1-way duct	M	5255
2	Horizontal Directional Drilling with 2-way duct	M	
3	Open trench on grass verge (GV) with 1-way duct	M	15
4	Open trench on grass verge (GV) with 2-way duct	M	
5	Open trench on carriage way (CW) with 1-way duct	M	30
6	Open trench on carriage way (CW) with 2-way duct	M	
7	Micro trenching 3-way 40 mm HDPE sub-duct	M	

Overall Propose Manhole / Handhole		Unit	Quantity
1	Manhole JB30	Ea	
2	Manhole JB30 Modified	Ea	
3	Manhole JRC7	Ea	36
4	PIT	Ea	

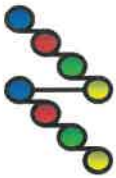
Overall Propose Pole / Overhead		Unit	Quantity
1	7.5 m Pole – Iron / GI / Concrete	Ea	
2	9.0 m Pole – Iron / GI / Concrete	Ea	
3	G.I Riser	M	24

Overall, Cable Infrastructure Design Distance		Unit	Quantity
1	48 Core Optical Fiber Cable UG/IB/ID	M	
2	96 Core Optical Fiber Cable UG/IB	M	
3	144 Core Optical Fiber Cable UG/IB/ID	M	6959

Overall Optic Splice Design		Unit	Quantity
1	Total Joint Closure	Ea	9

Overall FDC		Unit	Quantity
1	144 PP Fiber Distribution Cabinet outdoor	Ea	
2	144 PP Fiber Distribution Cabinet indoor	Ea	
3	288 PP Fiber Distribution Cabinet outdoor	Ea	
4	288 PP Fiber Distribution Cabinet indoor	Ea	
5	576 PP Fiber Distribution Cabinet outdoor	Ea	1
6	576 PP Fiber Distribution Cabinet indoor	Ea	
7	1152 PP Fiber Distribution Cabinet outdoor	Ea	
8	1152 PP Fiber Distribution Cabinet indoor	Ea	

Overall FDP		Unit	Quantity
1	12 Port indoor Fiber Distribution Panel	Ea	12
2	24 Port indoor Fiber Distribution Panel	Ea	
3	12/8 Port pedestal Fiber Distribution Panel	Ea	13



4.3 Civil Works Details (Manhole, Pole, FDC & FDP)

Overall Propose FDC		GPS Coordinate	
No.	FDC	Latitude	Longitude
1	PROP FDC01	3.73891	101.52735
2	PROP FDC02	3.72558	101.52313

COMMERCIAL ENTERPRISE

Overall Propose Manhole & Pole		GPS Coordinate	
No.	Manhole & Pole ID	Latitude	Longitude
1	PROP JRC7/11	3.73844	101.52752
2	PROP JRC7/12	3.73682	101.528
3	PROP JRC7/13	3.73587	101.52825
4	PROP JRC7/14	3.7348	101.52839
5	PROP JRC7/15	3.73358	101.52803
6	PROP JRC7/16	3.73286	101.52755
7	PROP JRC7/17	3.73232	101.52705
8	PROP JRC7/18	3.73121	101.52575
9	PROP JRC7/19	3.73073	101.52493
10	PROP JRC7/20	3.73017	101.52369
11	PROP JRC7/21	3.7294	101.52148
12	PROP JRC7/22	3.72752	101.52221
13	PROP JRC7/25	3.73976	101.52927
14	PROP JRC7/26	3.74014	101.53065
15	PROP JRC7/27	3.73914	101.53145
16	PROP JRC7/28	3.73792	101.53153
17	PROP JRC7/29	3.73702	101.53157
18	PROP JRC7/30	3.73618	101.52896
19	PROP JRC7/31	3.73496	101.52998
20	PROP JRC7/32	3.73493	101.53047
21	PROP JRC7/33	3.73283	101.5292
22	PROP JRC7/34	3.73247	101.53005
23	PROP JRC7/35	3.73257	101.5279
24	PROP JRC7/36	3.73232	101.52831
25	PROP JRC7/37	3.73175	101.52951
26	PROP JRC7/38	3.73142	101.53038
27	PROP JRC7/39	3.73055	101.52992
28	PROP JRC7/40	3.72964	101.52934
29	PROP JRC7/41	3.73039	101.52639

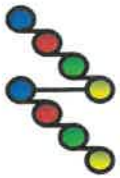


30	PROP JRC7/42	3.73033	101.52648
31	PROP JRC7/43	3.72936	101.52732
32	PROP JRC7/44	3.72857	101.52484
33	PROP JRC7/45	3.7274	101.52141
34	PROP JRC7/46	3.72554	101.52127
35	PROP JRC7/47	3.7257	101.52033
36	PROP JRC7/48	3.72666	101.51899

Overall Existing Manhole & Pole		GPS Coordinate	
No.	Manhole & Pole ID	Latitude	Longitude
1	B/MH01	3.74007	101.52704
2	B/MH02	3.73859	101.52749
3	B/MH03	3.73975	101.52933
4	B/MH04	3.74011	101.53055
5	B/MH05	3.73933	101.53139
6	B/MH06	3.73803	101.53153
7	B/MH07	3.73701	101.53157
8	B/MH08	3.73678	101.52803
9	B/MH09	3.73605	101.52824
10	B/MH10	3.73619	101.52911
11	B/MH11	3.73491	101.52987
12	B/MH12	3.73488	101.5303
13	B/MH13	3.73279	101.52928
14	B/MH14	3.73256	101.52989
15	B/MH15	3.73256	101.52796
16	B/MH16	3.73233	101.52825
17	B/MH17	3.73183	101.52938
18	B/MH18	3.73093	101.53017
19	B/MH19	3.73043	101.52985
20	B/MH20	3.72959	101.52927
21	B/MH21	3.73227	101.52702
22	B/MH22	3.72873	101.52458
23	B/MH23	3.73034	101.52653
24	B/MH24	3.72935	101.52737
25	B/MH25	3.72928	101.52738
26	B/MH26	3.7297	101.52282
27	B/MH27	3.72937	101.5216
28	B/MH28	3.72853	101.52487
29	B/MH29	3.72755	101.52243

UPSI

Overall Existing Manhole & Pole		GPS Coordinate	
No.	Manhole & Pole ID	Latitude	Longitude
1	B/MH01	3.726298	101.528515
2	B/MH02	3.72576	101.528789
3	B/MH03	3.726142	101.529545
4	B/MH04	3.726479	101.530173
5	B/MH05	3.726355	101.52942
6	B/MH06	3.727068	101.530751
7	B/MH07	3.727529	101.531056
8	B/MH08	3.727432	101.531257
9	B/MH09	3.72811	101.531442
10	B/MH10	3.729402	101.531534
11	B/MH11	3.725108	101.527375
12	B/MH12	3.724612	101.526574
13	B/MH13	3.724337	101.526052
14	B/MH14	3.724023	101.525424
15	B/MH15	3.723735	101.524392
16	B/MH16	3.723548	101.523876
17	B/MH17	3.72338	101.523585
18	B/MH18	3.722681	101.522455
19	B/MH19	3.721752	101.521943
20	B/MH20	3.721408	101.522455
21	B/MH21	3.721272	101.522839
22	B/MH22	3.721263	101.52303
23	B/MH23	3.721352	101.52319
24	B/MH24	3.721826	101.52407
25	B/MH25	3.722192	101.524762
26	B/MH26	3.722947	101.52622
27	B/MH27	3.722663	101.526443
28	B/MH28	3.72324	101.526762
29	B/MH29	3.723882	101.527968
30	B/MH30	3.720708	101.521734
31	B/MH31	3.719657	101.521841
32	B/MH32	3.719223	101.522034
33	B/MH33	3.718625	101.522496
34	B/MH34	3.718331	101.523114
35	B/MH35	3.719404	101.523386
36	B/MH36	3.720635	101.524607
37	B/MH37	3.721195	101.525661
38	B/MH38	3.721488	101.526215



39	B/MH39	3.72173	101.526684
40	B/MH40	3.721831	101.526926
41	B/MH41	3.72194	101.527266

PROTON TANJUNG MALIM

Overall Existing Manhole & Pole		GPS Coordinate	
No.	Manhole & Pole ID	Latitude	Longitude
1	B/MH01	3.73891	101.511803
2	B/MH02	3.739511	101.511699
3	B/MH03	3.740036	101.511529
4	B/MH04	3.740193	101.511978
5	B/MH05	3.74312	101.52188
6	B/MH06	3.74332	101.523958
7	B/MH07	3.74223	101.524503
8	B/MH08	3.74549	101.5211
9	B/MH09	3.74583	101.52095
10	B/MH10	3.744085	101.515729

Overall Propose FDP		GPS Coordinate	
No.	FDP	Latitude	Longitude
1	FDP01	3.727086	101.5184
2	FDP02	3.726951	101.518505
3	FDP03	3.726667	101.518749
4	FDP04	3.726041	101.51933
5	FDP05	3.726208	101.519153
6	FDP06	3.726336	101.519034
7	FDP07	3.725781	101.519713
8	FDP08	3.725702	101.519886
9	FDP09	3.725609	101.520092
10	FDP10	3.725378	101.520949
11	FDP11	3.725429	101.520668
12	FDP12	3.72549	101.520459
13	FDP13	3.721263	101.52303
14	FDP14	3.72857	101.52484
15	FDP15	3.73017	101.52369
16	FDP16	3.72936	101.52732
17	FDP17	3.73232	101.52705
18	FDP18	3.72964	101.52934
19	FDP19	3.721195	101.525661
20	FDP20	3.718331	101.523114

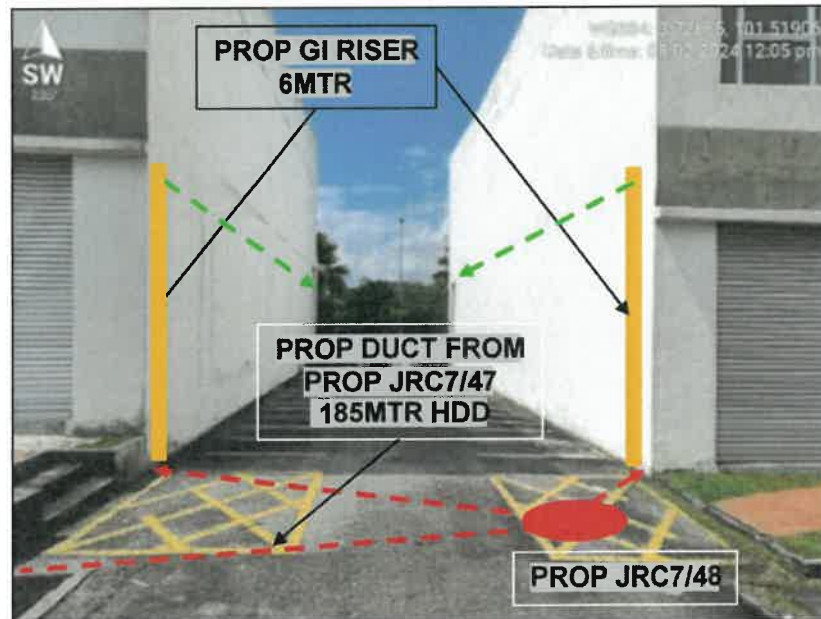


21	FDP21	3.719223	101.522034
22	FDP22	3.720708	101.521734
23	FDP23	3.725108	101.527375
24	FDP24	3.723882	101.527968
25	FDP25	3.722947	101.52622

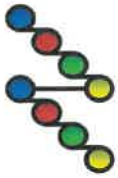
4.4. ODN Photo Illustration (FDC01)



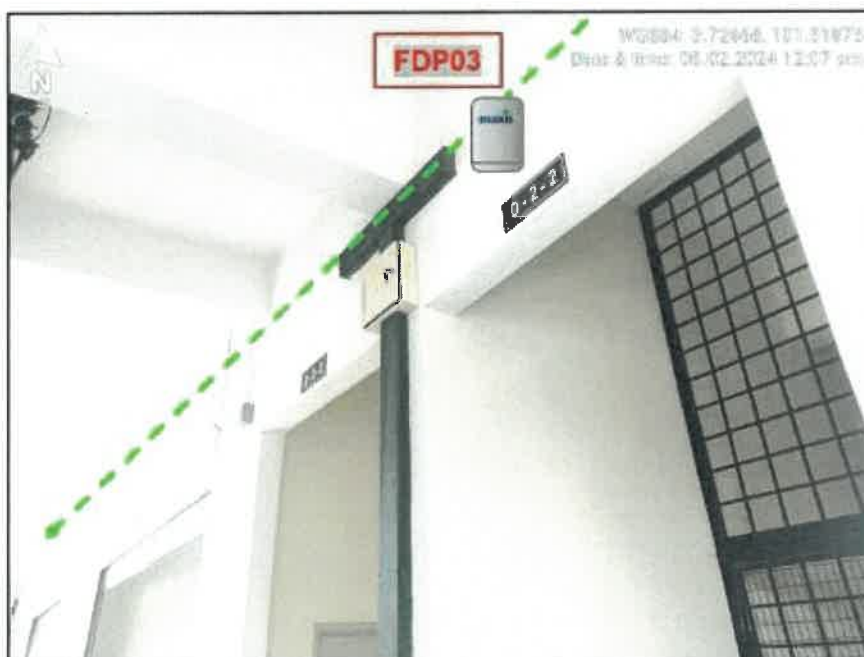
**PICTURE 01: LOCATION AT JALAN PULAI 2**



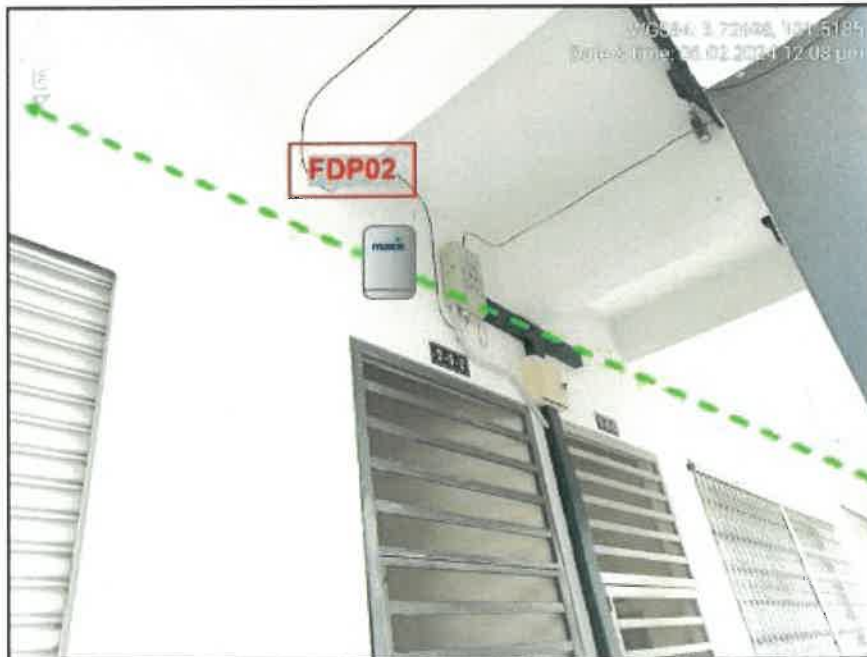
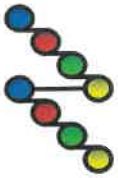
**PICTURE 02: LOCATION AT JALAN PULAI 2**



**PICTURE 03: LOCATION AT JALAN PULAI 1**



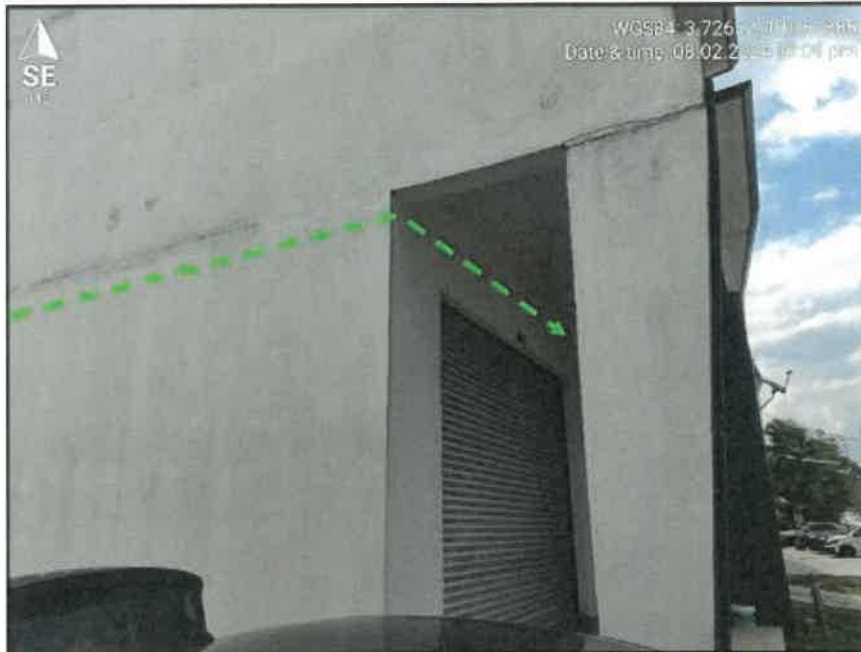
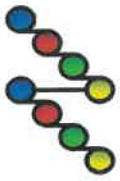
**PICTURE 04: LOCATION AT JALAN PULAI 1**



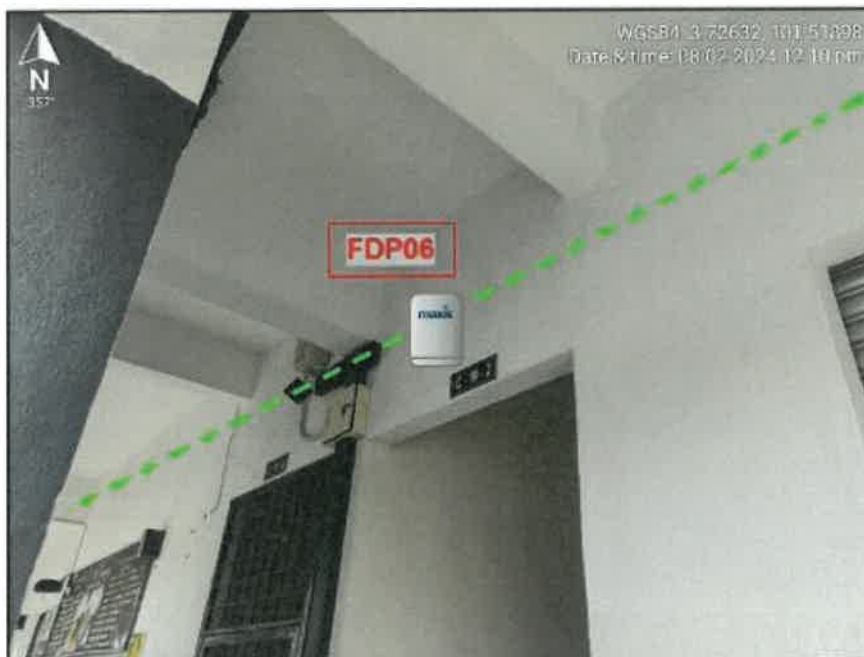
**PICTURE 05: LOCATION AT JALAN PULAI 1**



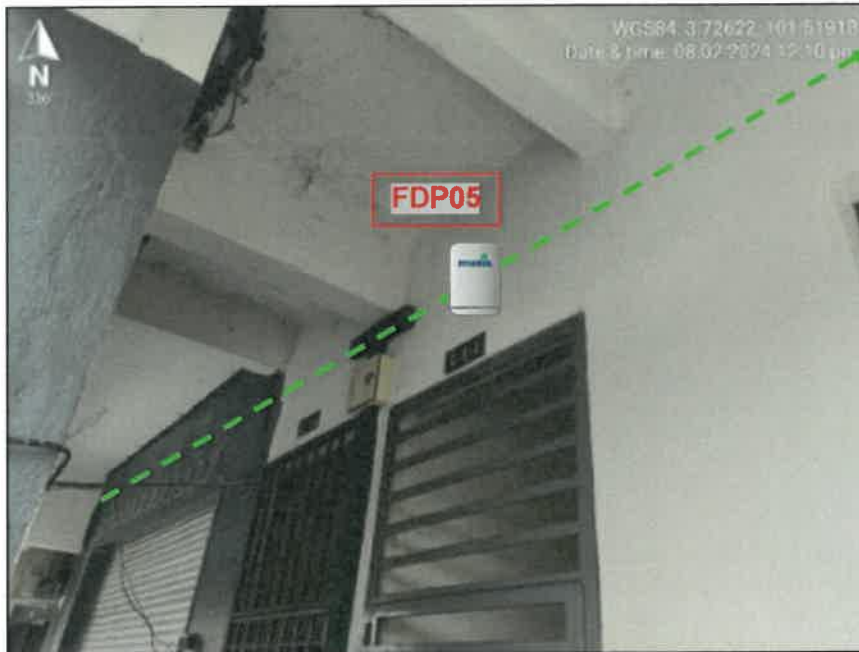
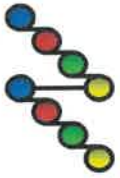
**PICTURE 06: LOCATION AT JALAN PULAI 1**



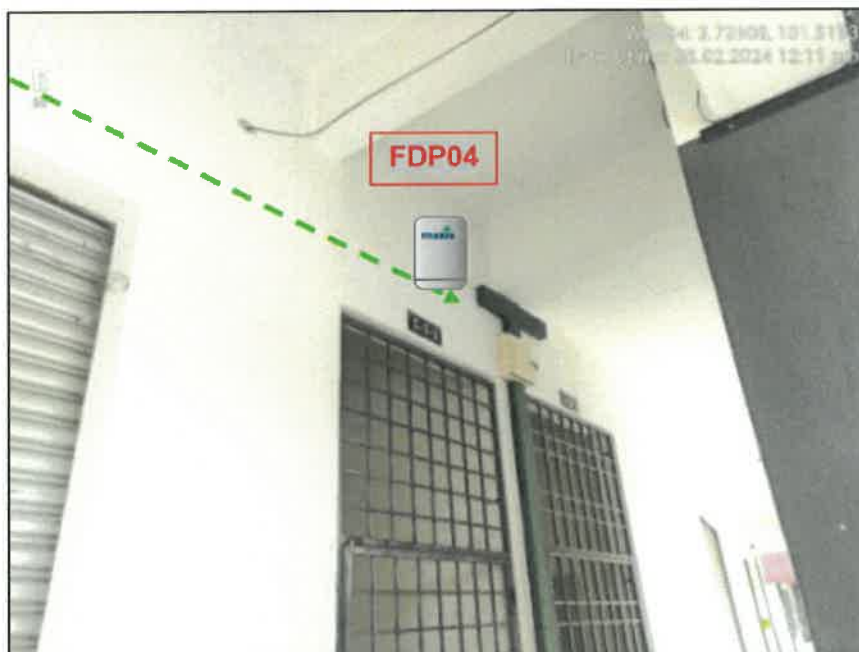
**PICTURE 07: LOCATION AT JALAN PULAI 1**



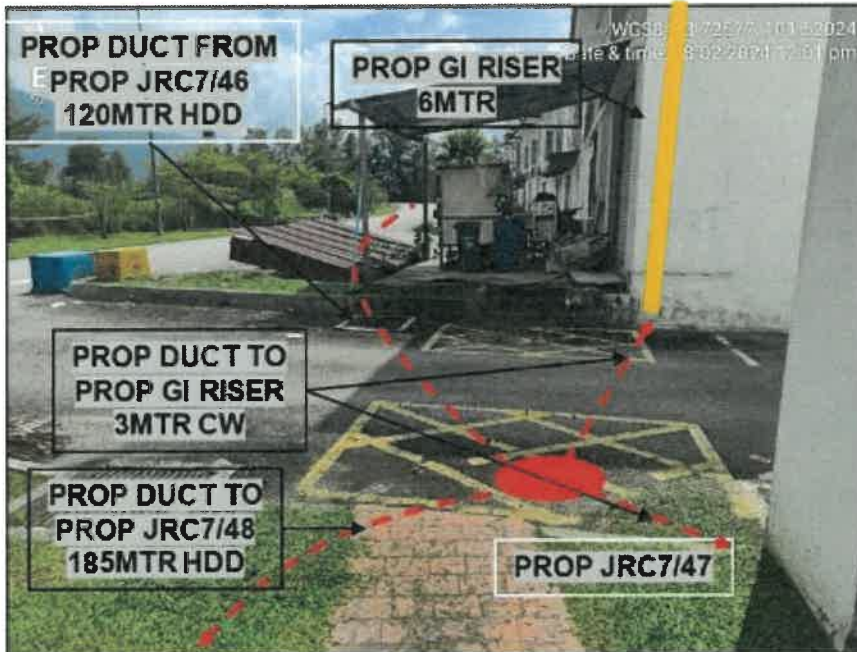
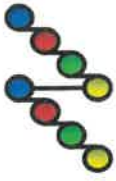
**PICTURE 08: LOCATION AT JALAN PULAI 1**



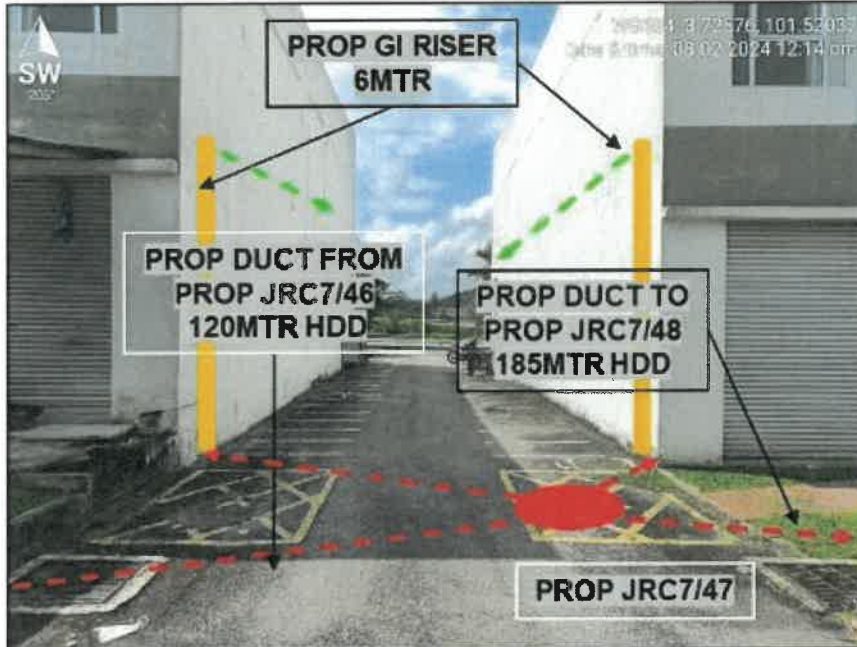
**PICTURE 09: LOCATION AT JALAN PULAI 1**



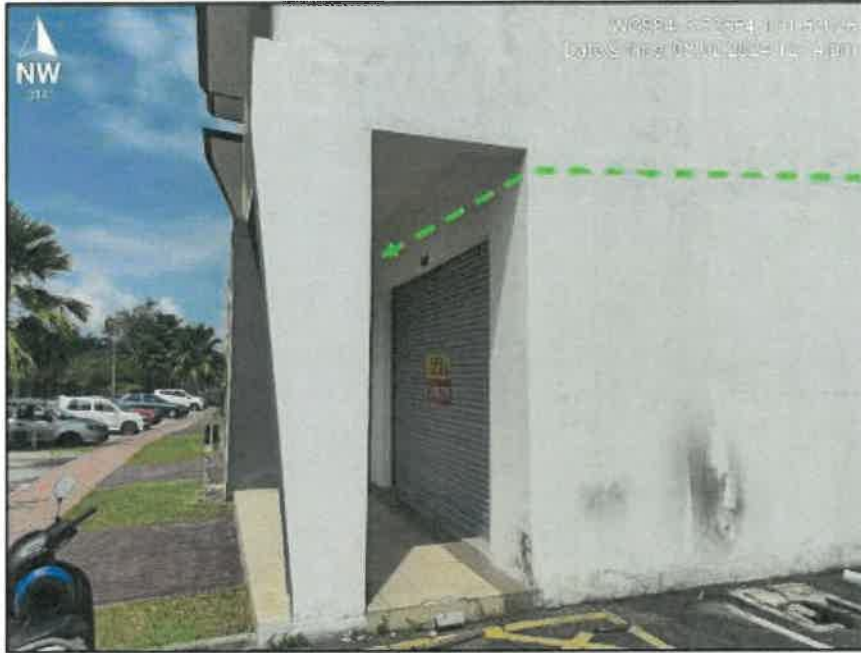
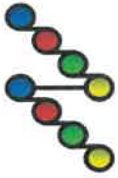
**PICTURE 10: LOCATION AT JALAN PULAI 1**



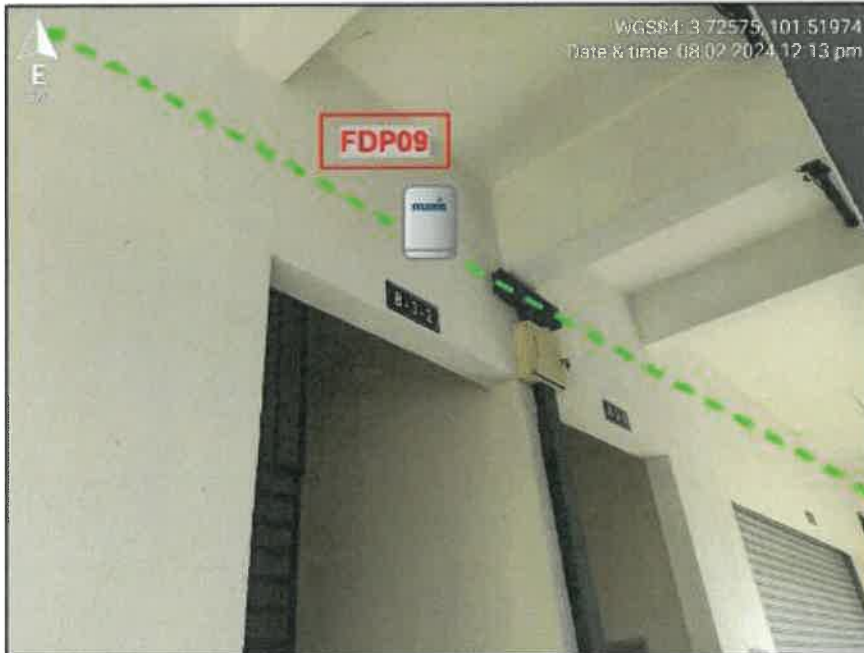
PICTURE 11: LOCATION AT JALAN PULAI 2



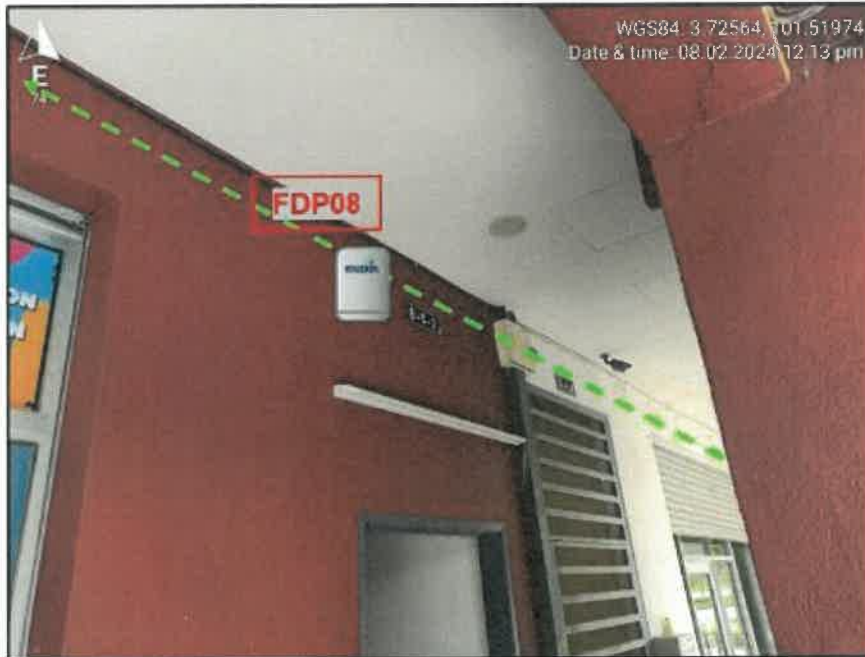
PICTURE 12: LOCATION AT JALAN PULAI 2



**PICTURE 13: LOCATION AT JALAN PULAI 1**



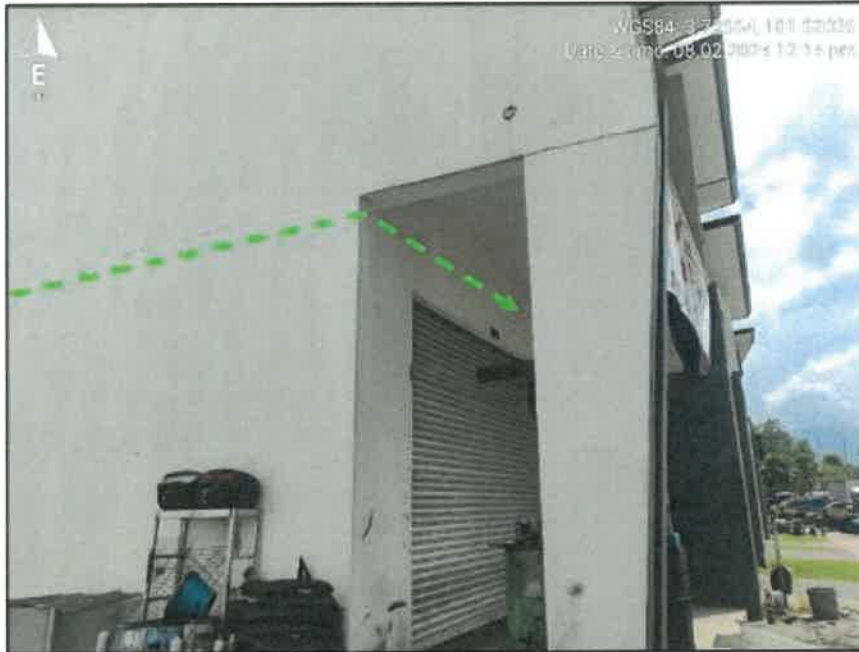
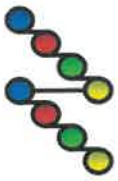
**PICTURE 14: LOCATION AT JALAN PULAI 1**



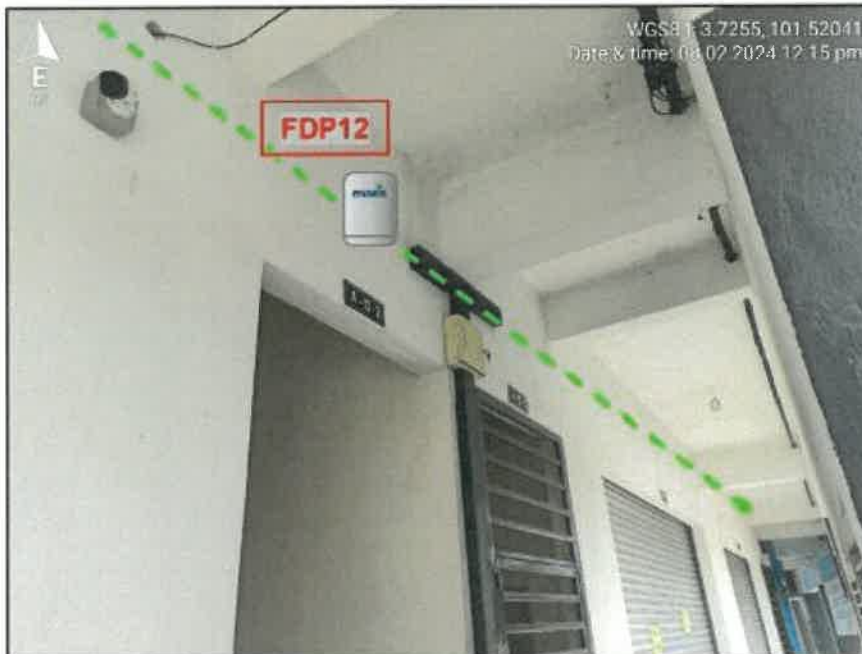
**PICTURE 15: LOCATION AT JALAN PULAI 1**



**PICTURE 16: LOCATION AT JALAN PULAI 1**



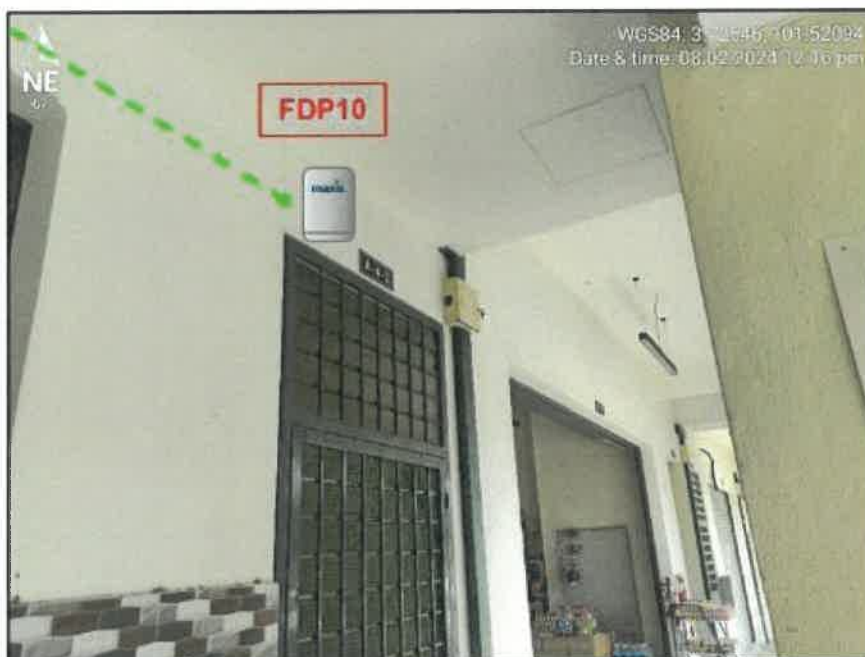
**PICTURE 17: LOCATION AT JALAN PULAI 1**



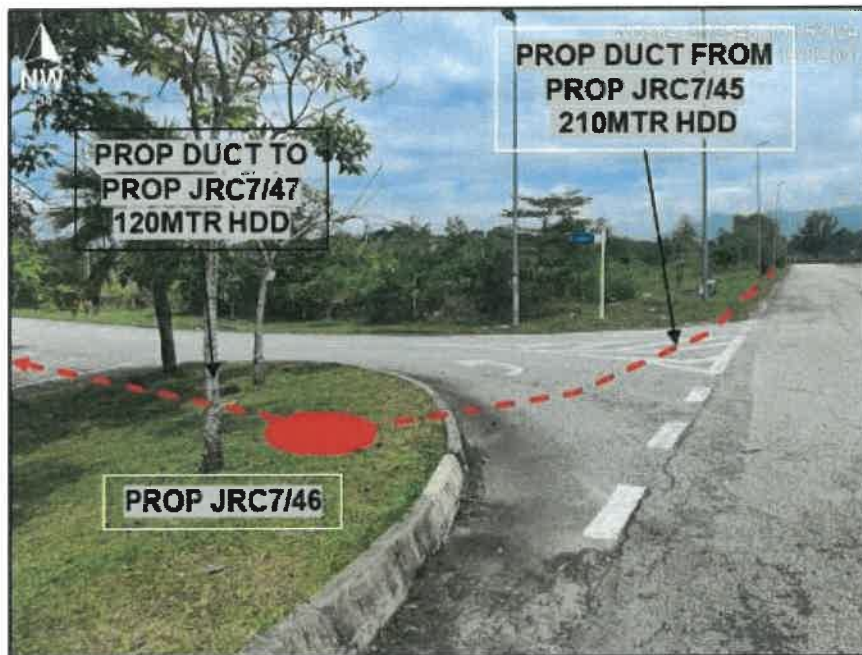
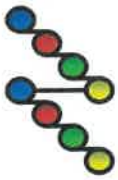
**PICTURE 18: LOCATION AT JALAN PULAI 1**



**PICTURE 19: LOCATION AT JALAN PULAI 1**



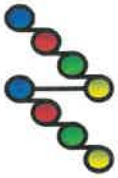
**PICTURE 20: LOCATION AT JALAN PULAI 1**



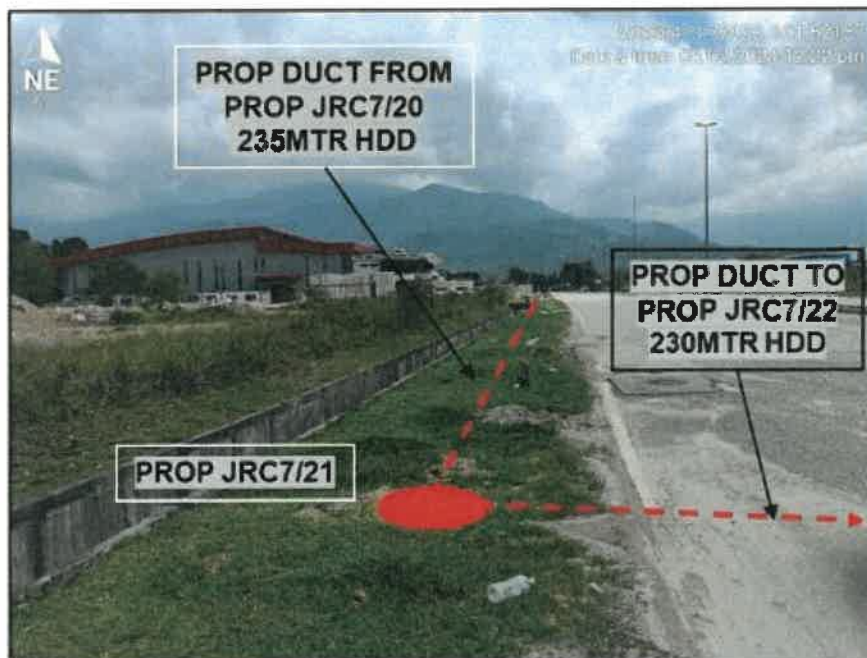
**PICTURE 21: LOCATION AT JALAN JELAWAI 6**



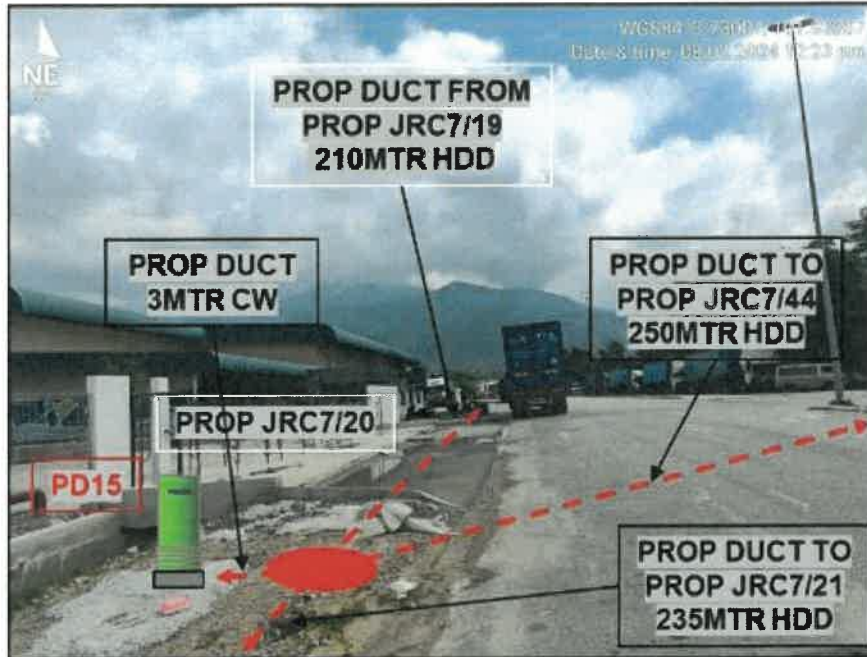
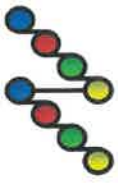
**PICTURE 22: LOCATION AT JALAN JELAWAI 6**



**PICTURE 23: LOCATION AT JALAN JELAWAI 5**



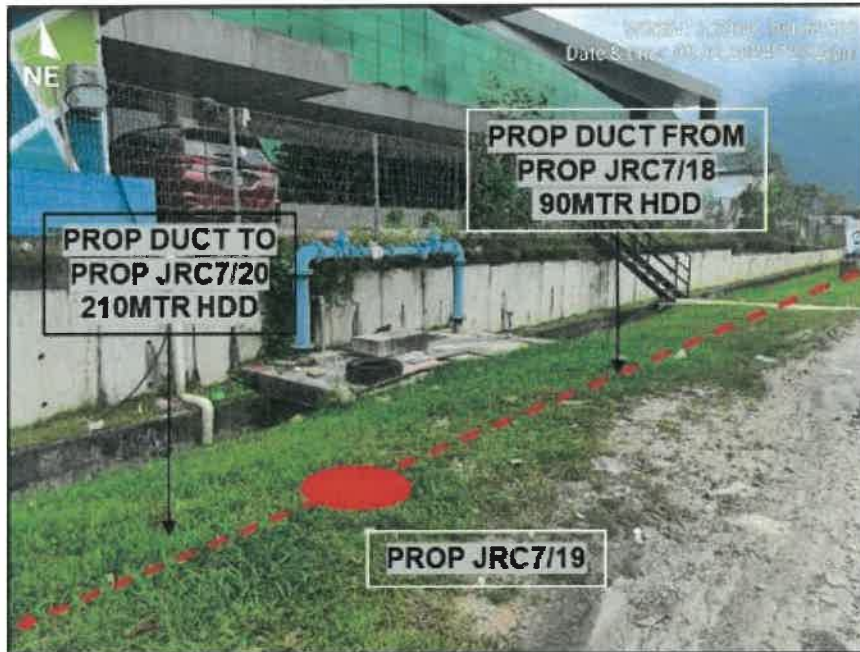
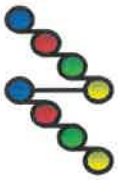
**PICTURE 24: LOCATION AT JALAN JELAWAI 2**



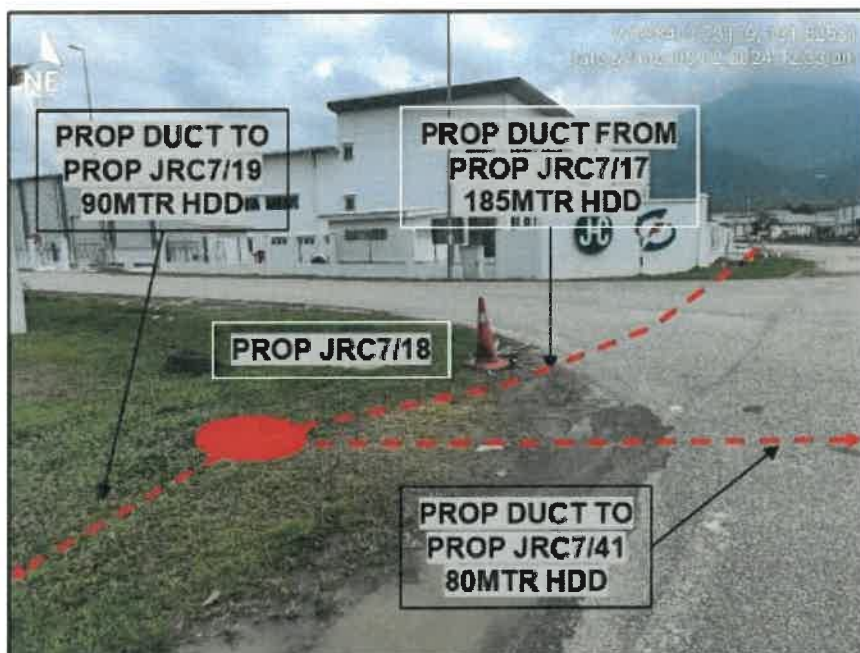
**PICTURE 25: LOCATION AT JALAN JELAWAI 2**



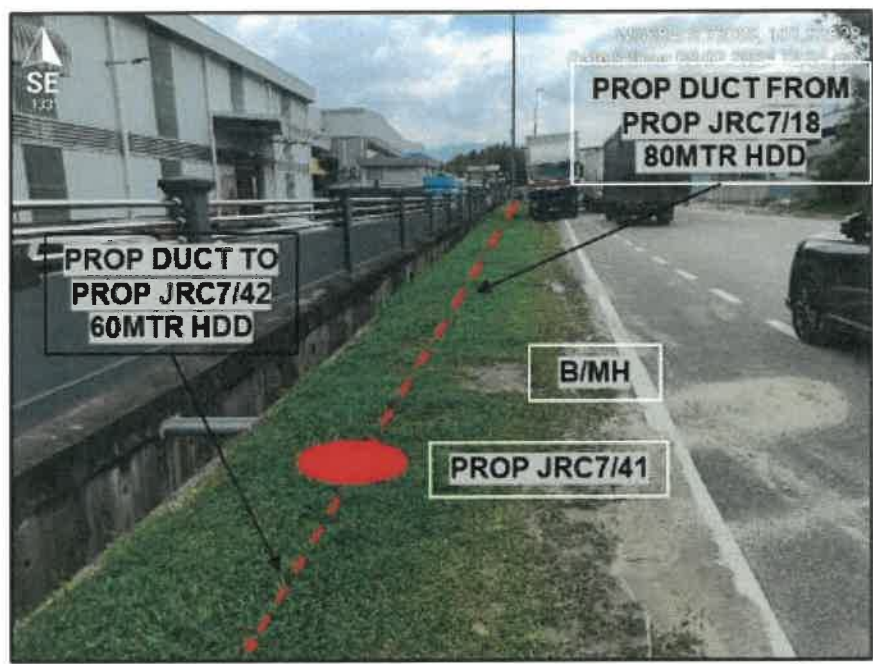
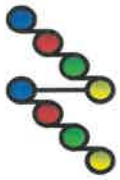
**PICTURE 26: LOCATION AT JALAN JELAWAI 4**



**PICTURE 27: LOCATION AT JALAN JELAWAI 2**



**PICTURE 28: LOCATION AT JALAN JELAWAI 2**



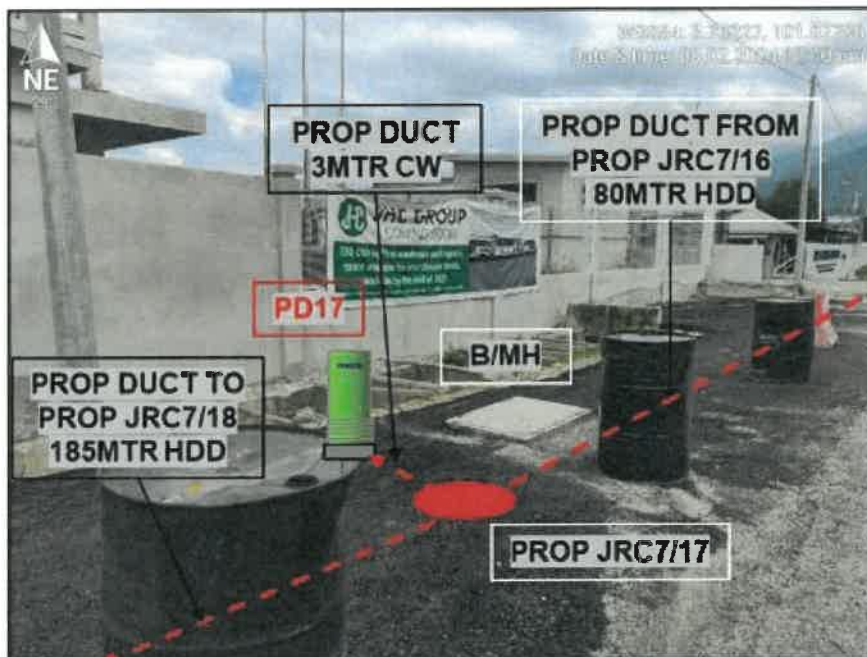
**PICTURE 29: LOCATION AT JALAN JELAWAI 3**



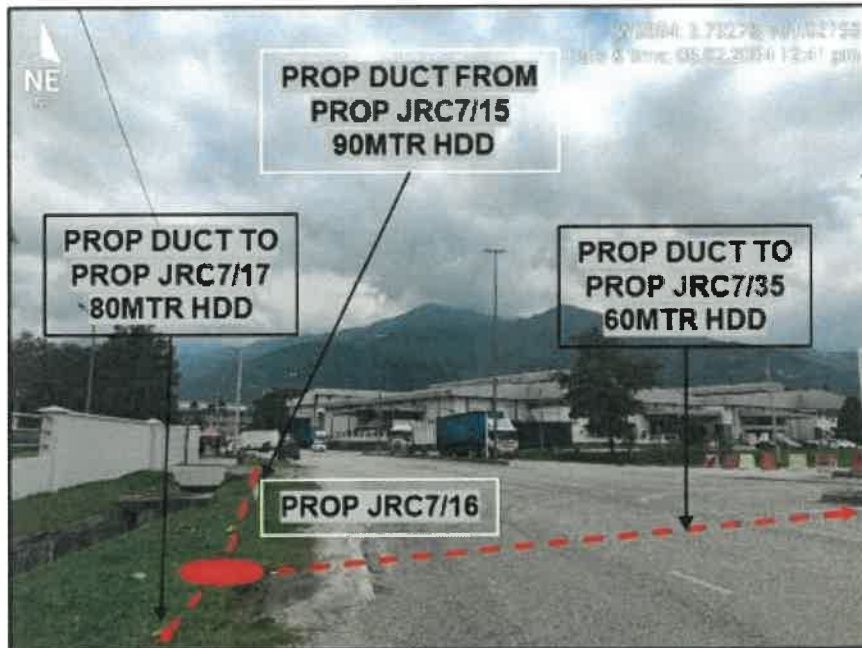
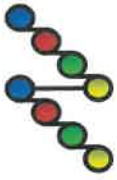
**PICTURE 30: LOCATION AT JALAN JELAWAI 3**



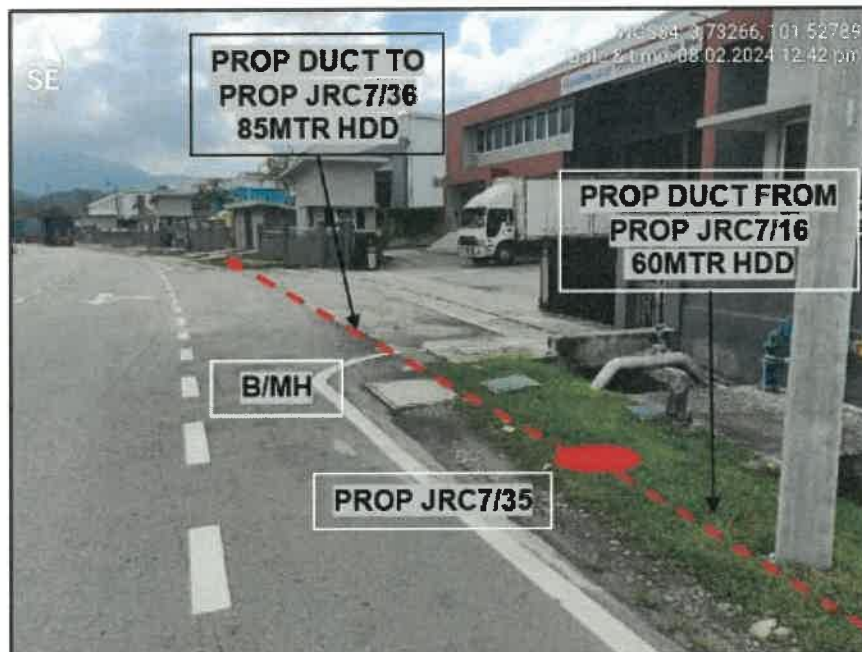
PICTURE 31: LOCATION AT JALAN JELAWAI 3



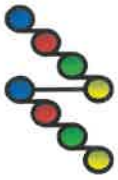
PICTURE 32: LOCATION AT JALAN JELAWAI 2



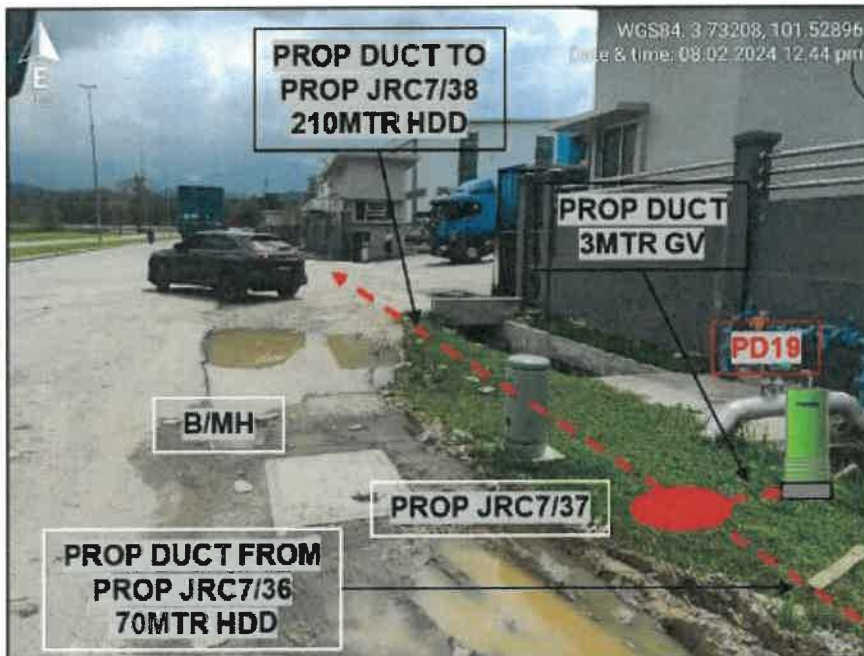
**PICTURE 33: LOCATION AT JALAN JELAWAI 2**



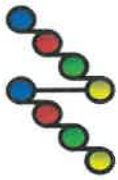
**PICTURE 34: LOCATION AT JALAN JELAWAI**



PICTURE 35: LOCATION AT JALAN JELAWAI



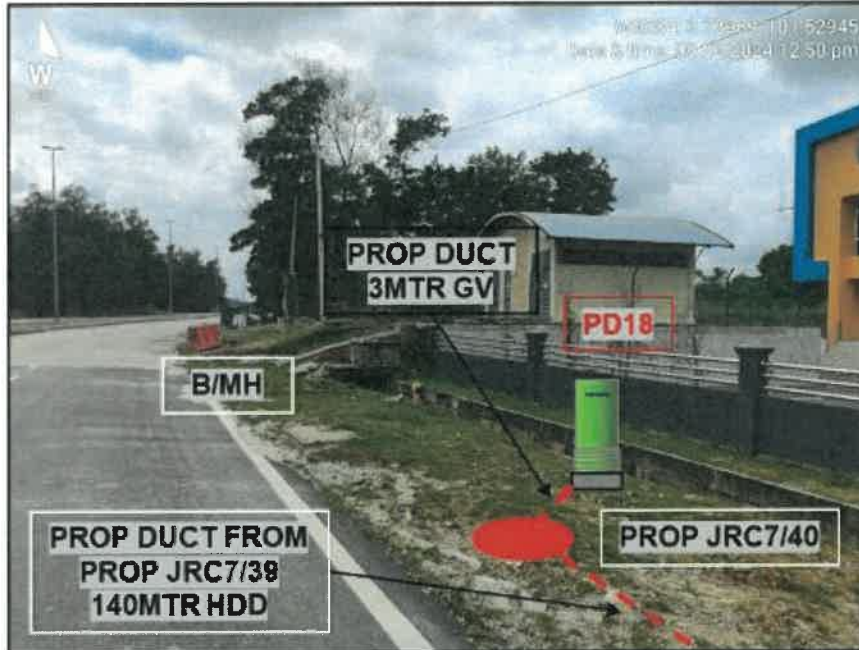
PICTURE 36: LOCATION AT JALAN JELAWAI



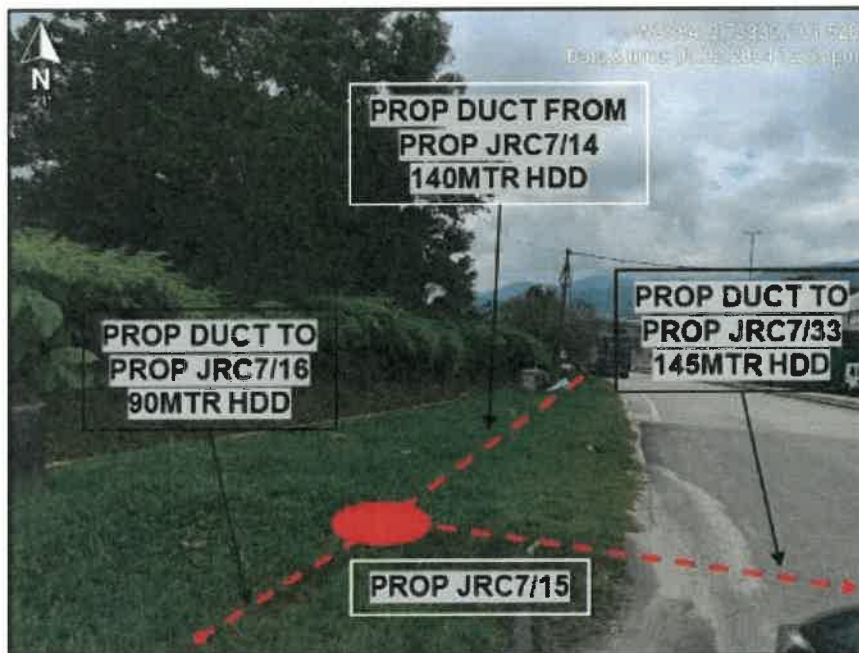
**PICTURE 37: LOCATION AT JALAN JELAWAI**



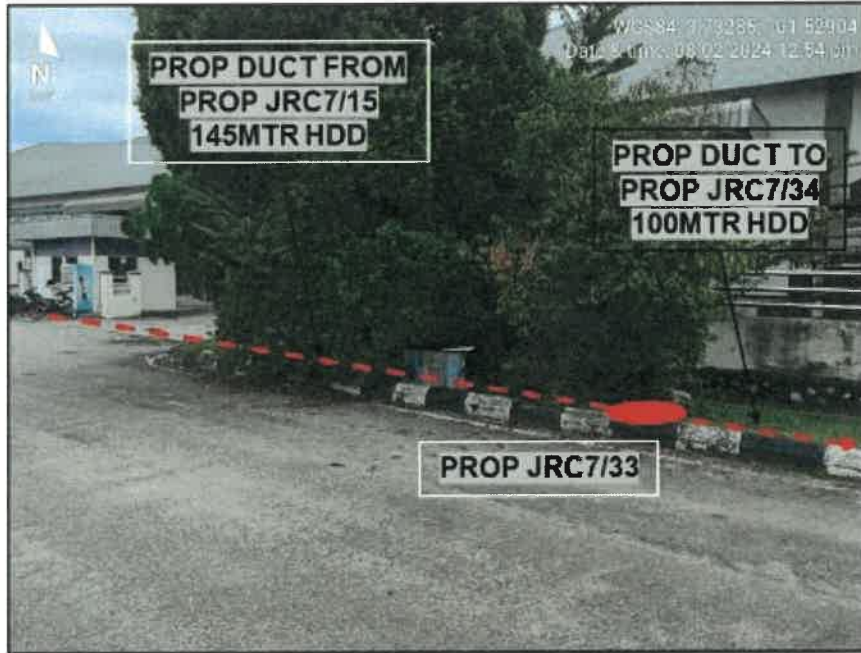
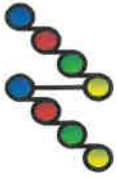
**PICTURE 38: LOCATION AT JALAN JELAWAI**



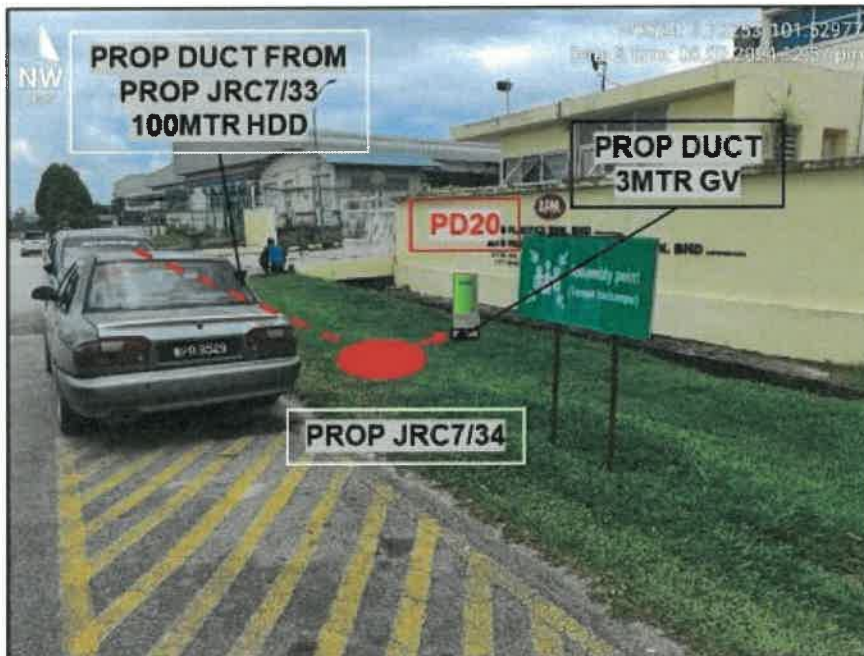
PICTURE 39: LOCATION AT JALAN JELAWAI



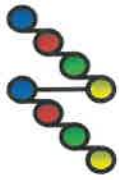
PICTURE 40: LOCATION AT JALAN JELAWAI



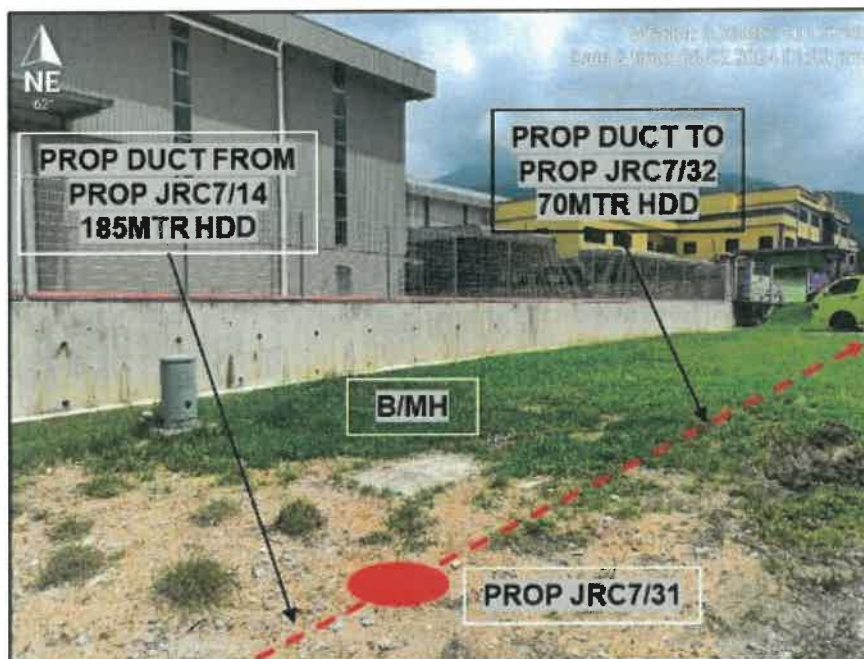
**PICTURE 41: LOCATION AT JALAN JELAWAI**



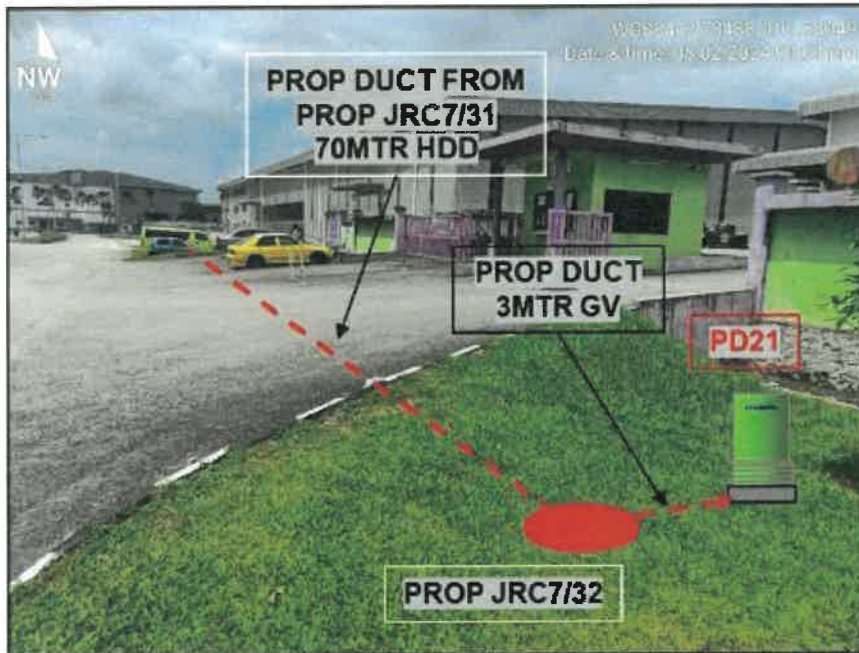
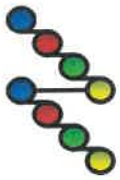
**PICTURE 42: LOCATION AT JALAN JELAWAI**



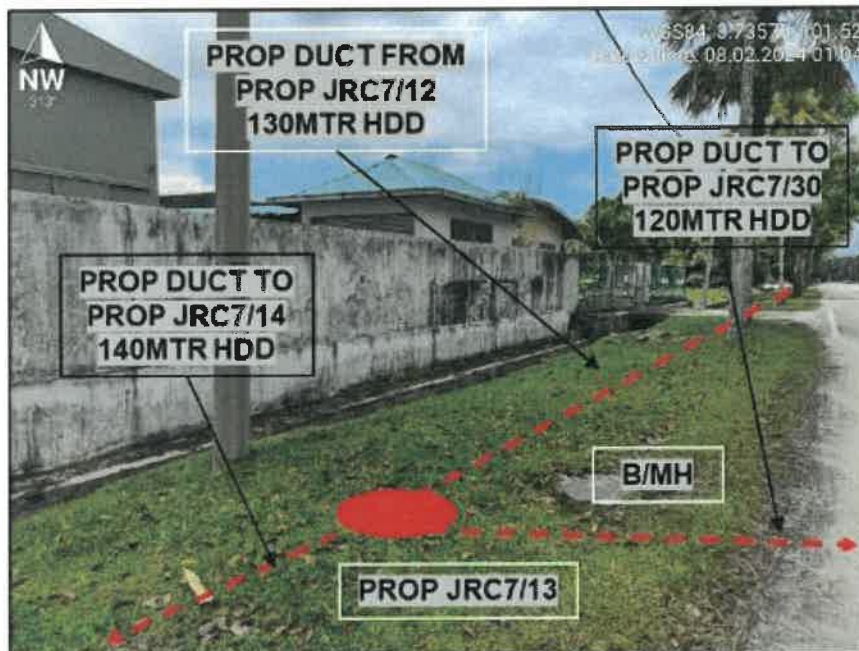
**PICTURE 43: LOCATION AT JALAN JELAWAI**



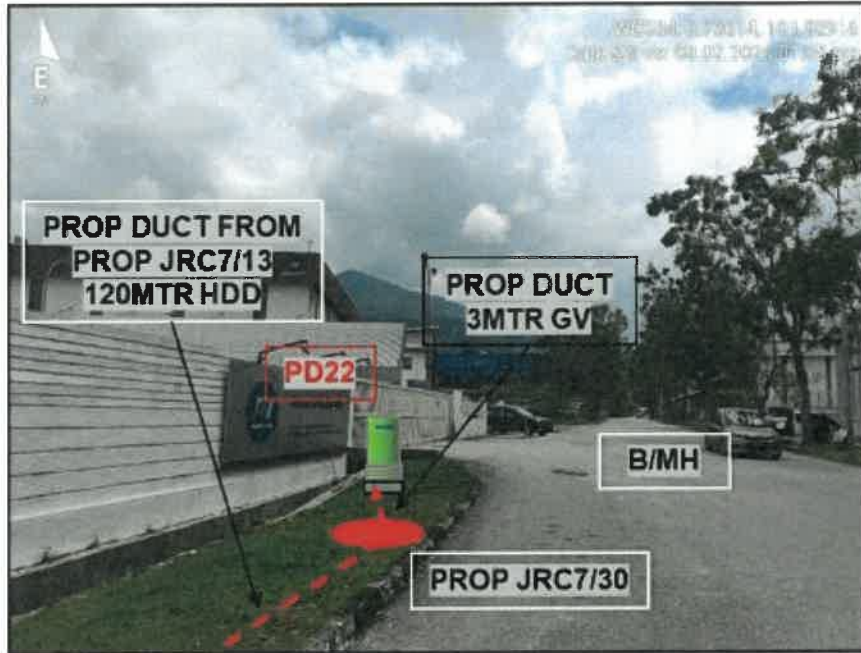
**PICTURE 44: LOCATION AT JALAN JELUTONG**



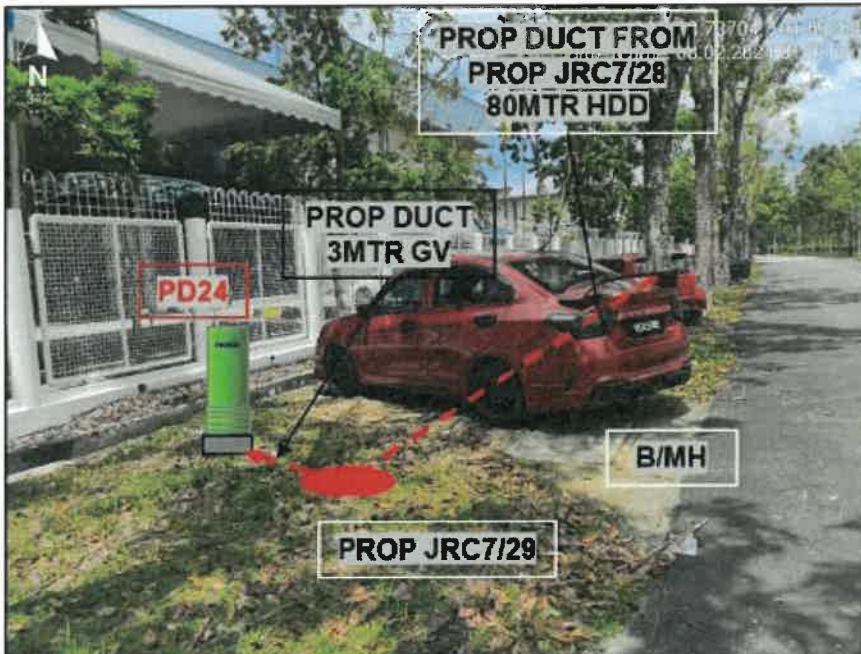
**PICTURE 45: LOCATION AT JALAN JELUTONG**



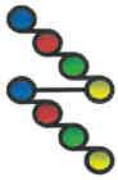
**PICTURE 46: LOCATION AT JALAN JELAWAI**



**PICTURE 47: LOCATION AT JALAN JELAWAI 1**



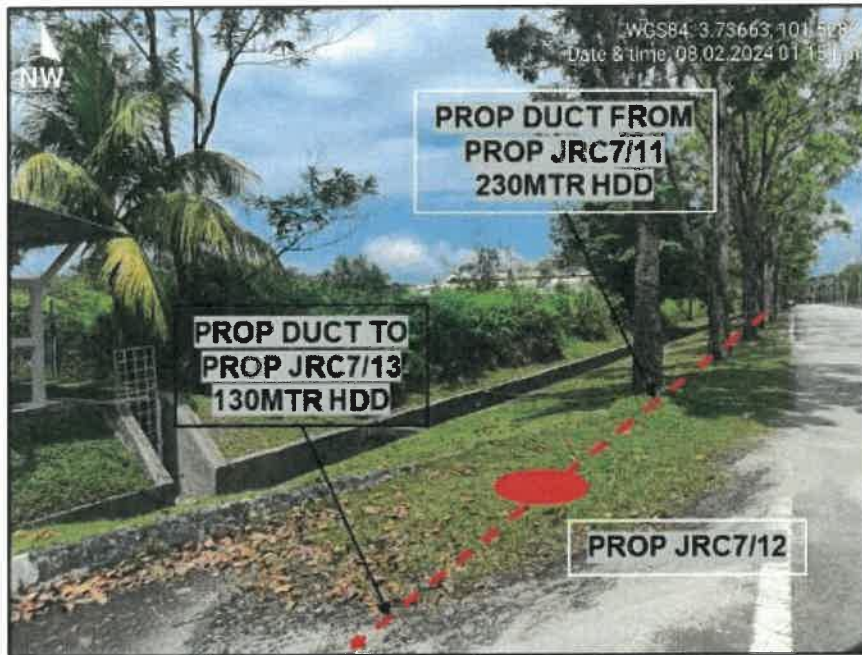
**PICTURE 48: LOCATION AT JALAN JELAWAI 1**



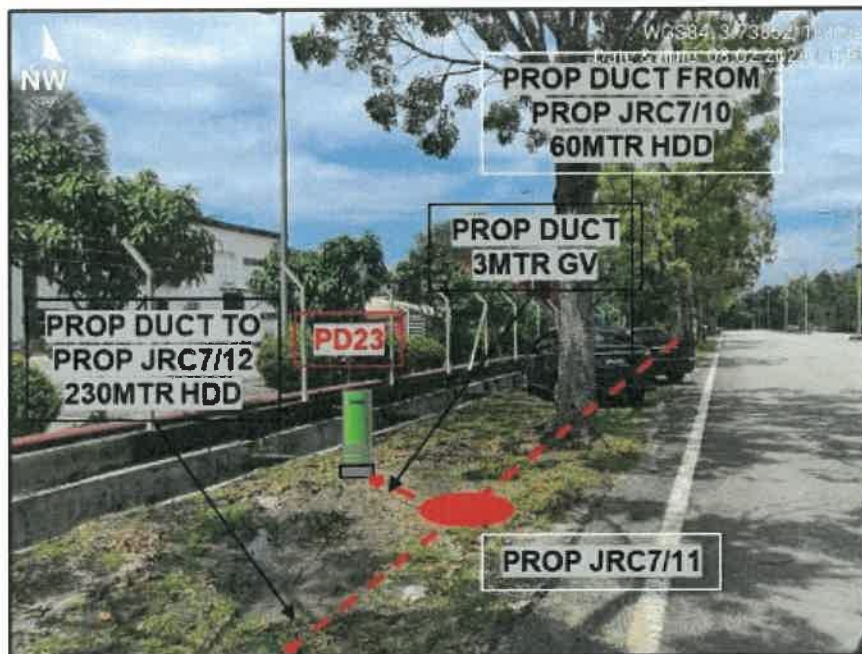
**PICTURE 49: LOCATION AT JALAN JELAWAI 1**



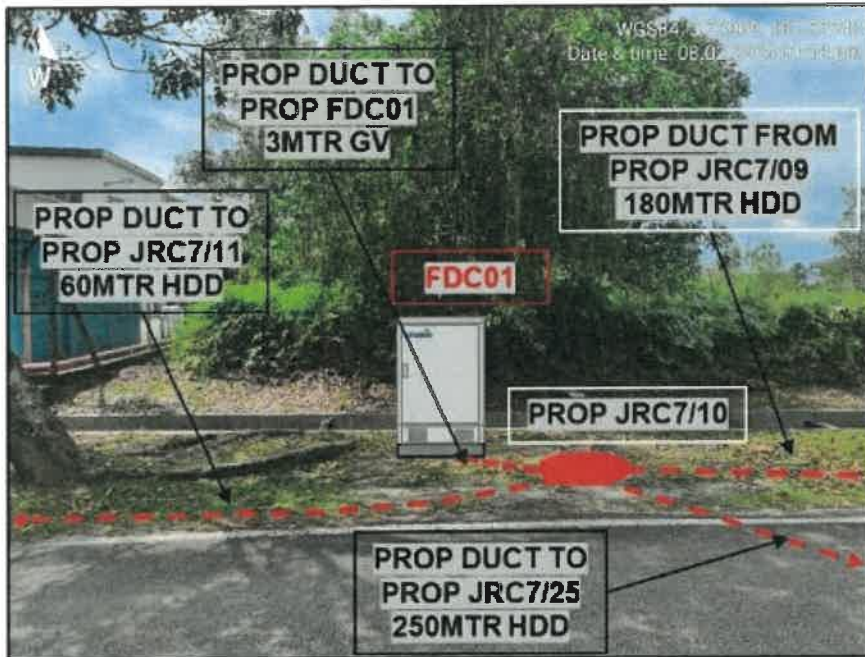
**PICTURE 50: LOCATION AT JALAN JELAWAI 1**



**PICTURE 51: LOCATION AT JALAN JELAWAJ**



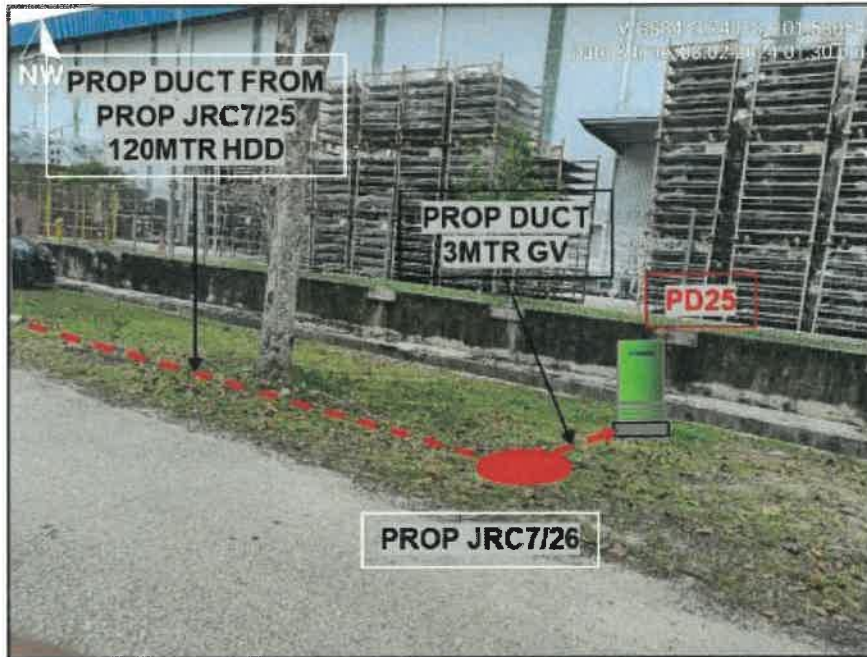
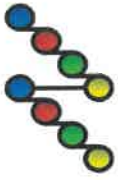
**PICTURE 52: LOCATION AT JALAN JELAWAJ**



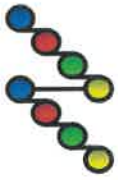
**PICTURE 53: LOCATION AT JALAN JELAWAI**



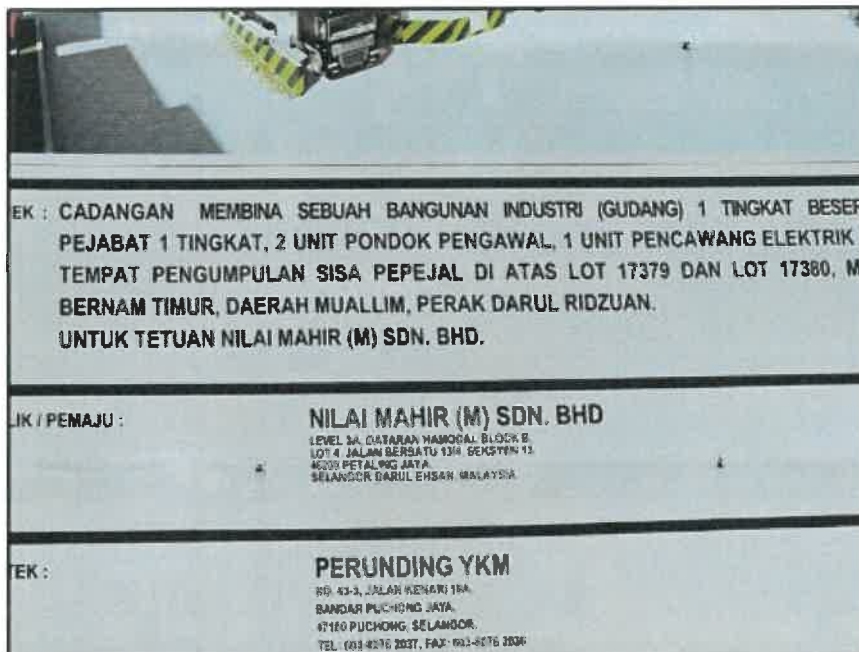
**PICTURE 54: LOCATION AT JALAN JELAWAI 1**



**PICTURE 55: LOCATION AT JALAN JELAWAI 1**



**PICTURE 56: LOCATION AT COMMERCIAL ENTERPRISE PROTON CITY**



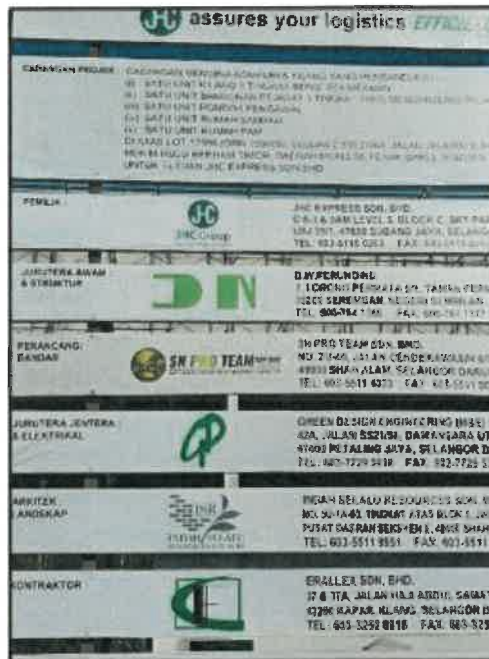
**PICTURE 57: LOCATION AT COMMERCIAL ENTERPRISE PROTON CITY**



**PICTURE 58: LOCATION AT COMMERCIAL ENTERPRISE  
PROTON CITY**



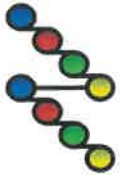
**PICTURE 59: LOCATION AT COMMERCIAL ENTERPRISE  
PROTON CITY**



**PICTURE 60: LOCATION AT COMMERCIAL ENTERPRISE PROTON CITY**



**PICTURE 61: LOCATION AT COMMERCIAL ENTERPRISE PROTON CITY**



**PICTURE 62: LOCATION AT COMMERCIAL ENTERPRISE  
PROTON CITY**



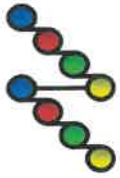
**PICTURE 63: LOCATION AT COMMERCIAL ENTERPRISE  
PROTON CITY**



**PICTURE 64: LOCATION AT COMMERCIAL ENTERPRISE PROTON CITY**



**PICTURE 65: LOCATION AT COMMERCIAL ENTERPRISE PROTON CITY**



**PICTURE 66: LOCATION AT COMMERCIAL ENTERPRISE  
PROTON CITY**



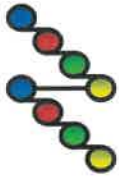
**PICTURE 67: LOCATION AT COMMERCIAL ENTERPRISE  
PROTON CITY**



**PICTURE 68: LOCATION AT COMMERCIAL ENTERPRISE  
PROTON CITY**



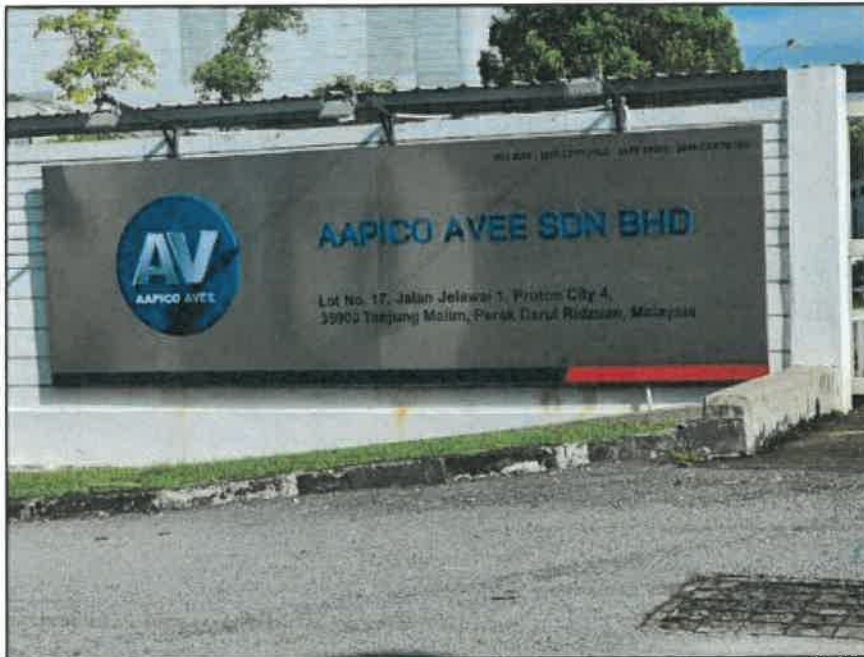
**PICTURE 69: LOCATION AT COMMERCIAL ENTERPRISE  
PROTON CITY**



**PICTURE 70: LOCATION AT COMMERCIAL ENTERPRISE  
PROTON CITY**



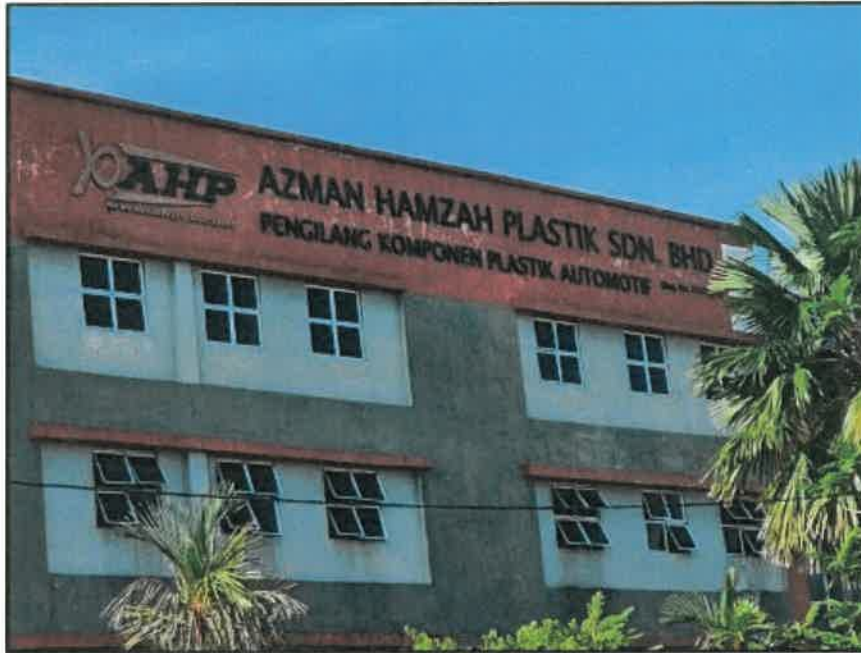
**PICTURE 71: LOCATION AT COMMERCIAL ENTERPRISE  
PROTON CITY**



**PICTURE 72: LOCATION AT COMMERCIAL ENTERPRISE  
PROTON CITY**



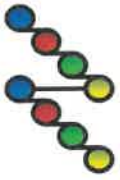
**PICTURE 73: LOCATION AT COMMERCIAL ENTERPRISE  
PROTON CITY**



**PICTURE 74: LOCATION AT COMMERCIAL ENTERPRISE  
PROTON CITY**



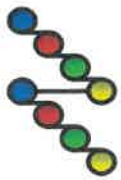
**PICTURE 75: LOCATION AT COMMERCIAL ENTERPRISE  
PROTON CITY**



**PICTURE 76: LOCATION AT COMMERCIAL ENTERPRISE  
PROTON CITY**



**PICTURE 77: LOCATION AT COMMERCIAL ENTERPRISE  
PROTON CITY**

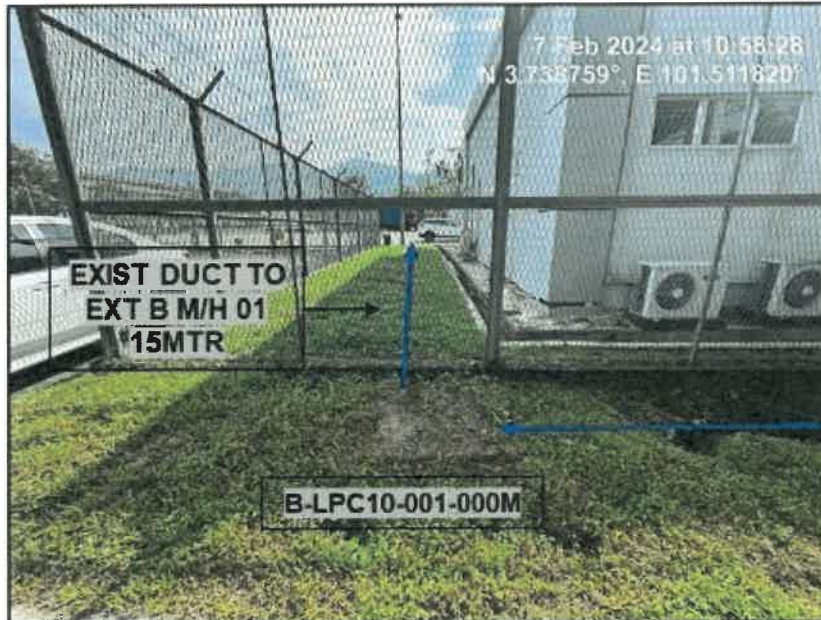


**PICTURE 78: LOCATION AT COMMERCIAL ENTERPRISE  
PROTON CITY**



**PICTURE 79: LOCATION AT COMMERCIAL ENTERPRISE  
PROTON CITY**

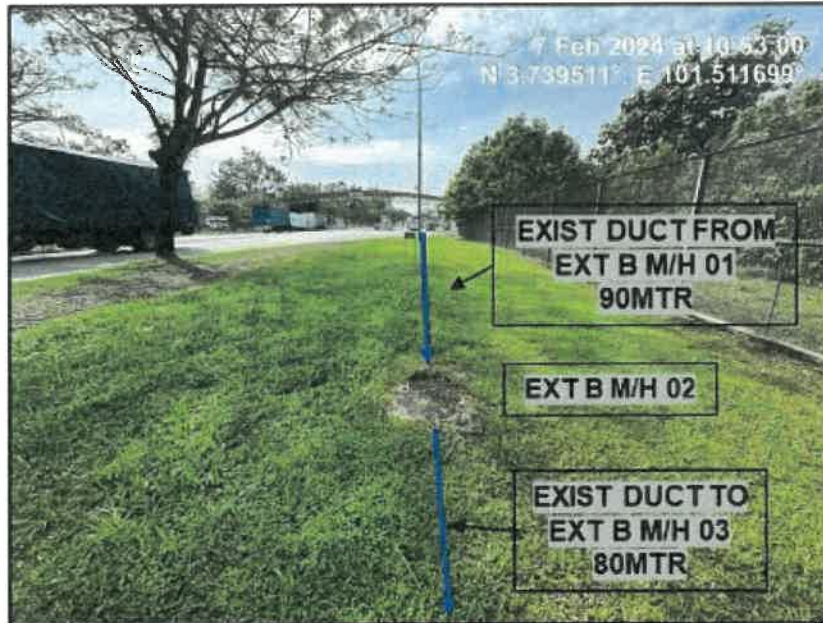
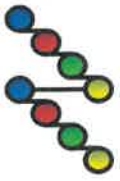
4.4. ODN Photo Illustration (PROTON TANJUNG MALIM)



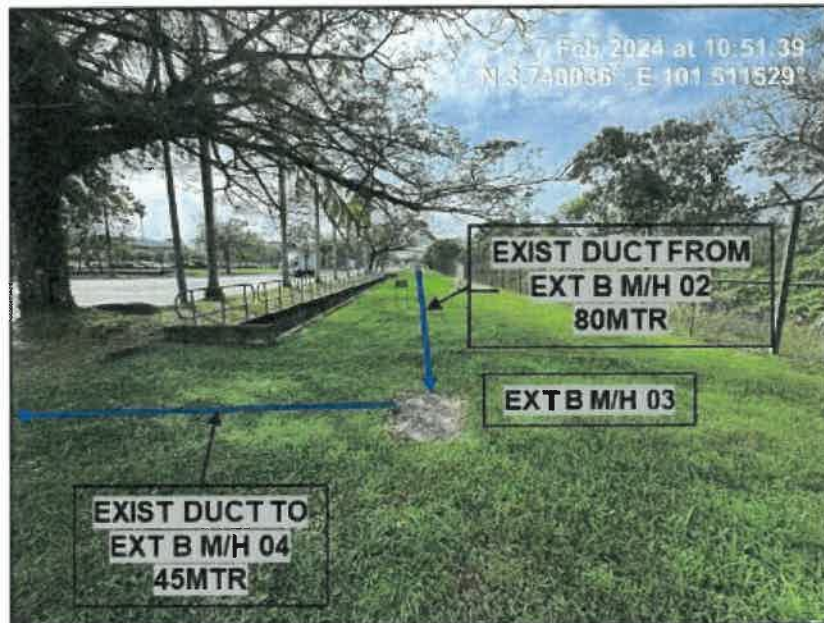
**PICTURE 01: LOCATION AT BACKLANE GUARD HOUSE GATE 3**



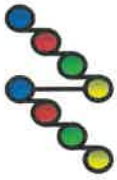
**PICTURE 02: LOCATION AT BACKLANE GUARD HOUSE GATE 3**



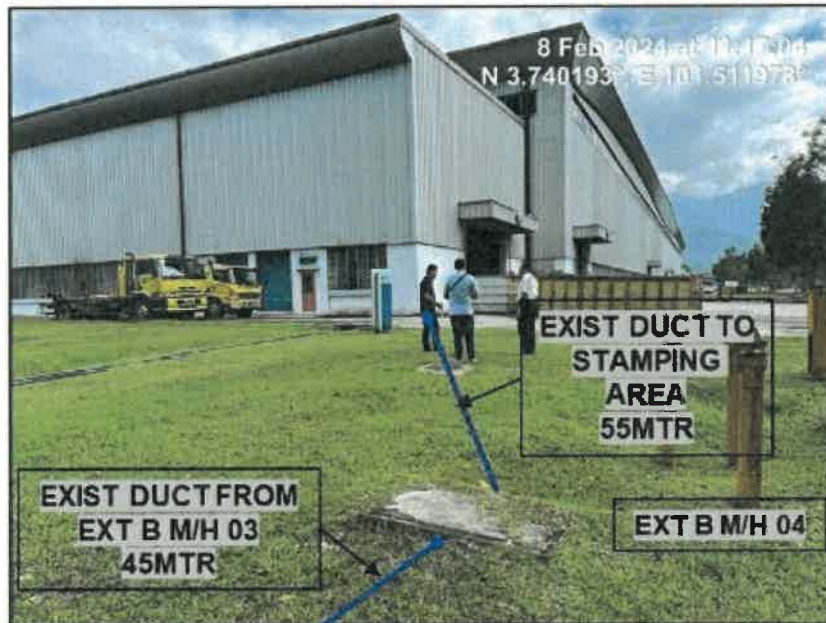
**PICTURE 03: LOCATION AT UNNAMED ROAD**



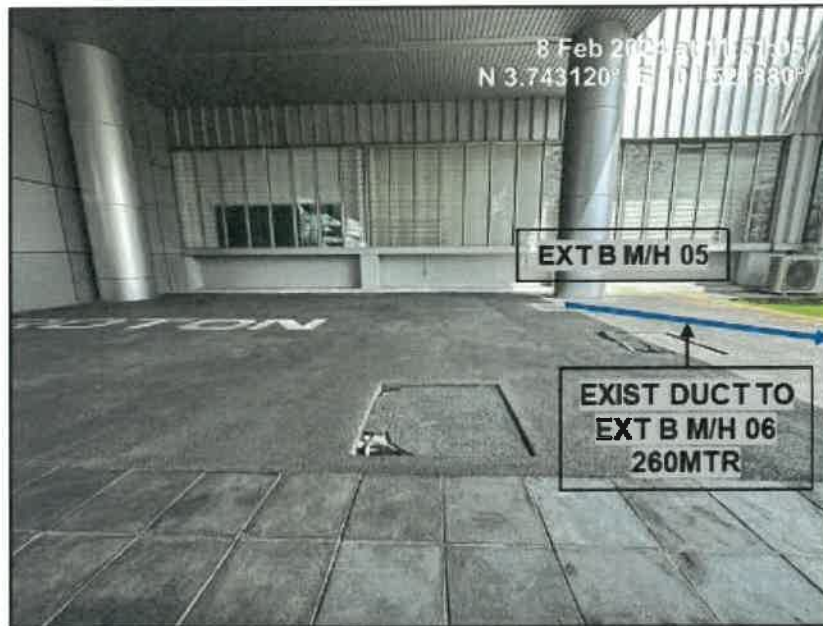
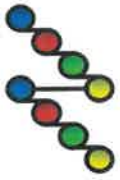
**PICTURE 04: LOCATION AT UNNAMED ROAD**



PICTURE 05: LOCATION AT STAMPING AREA BUILDING



PICTURE 06: LOCATION AT STAMPING AREA BUILDING



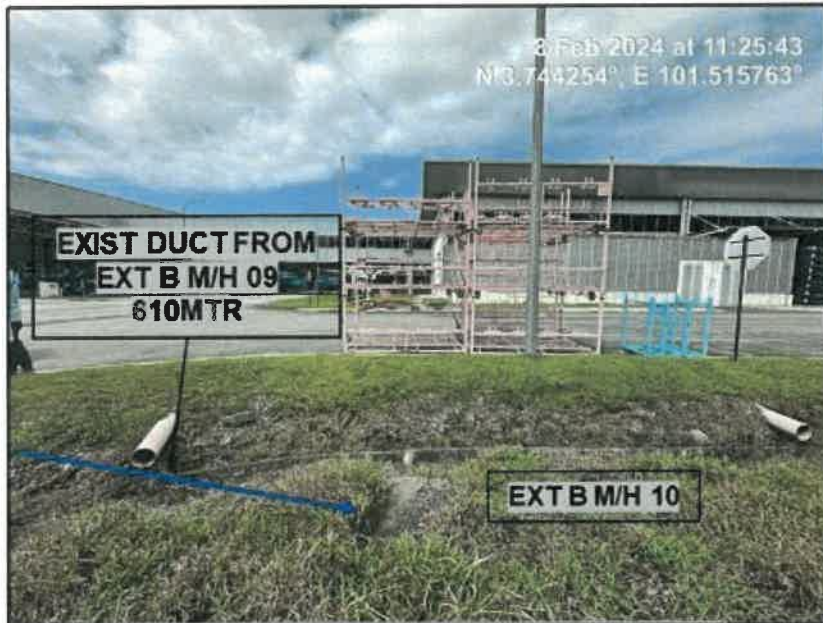
**PICTURE 07: LOCATION AT TRIM & FINAL 1 AREA**



**PICTURE 08: LOCATION AT UNNAMED ROAD**



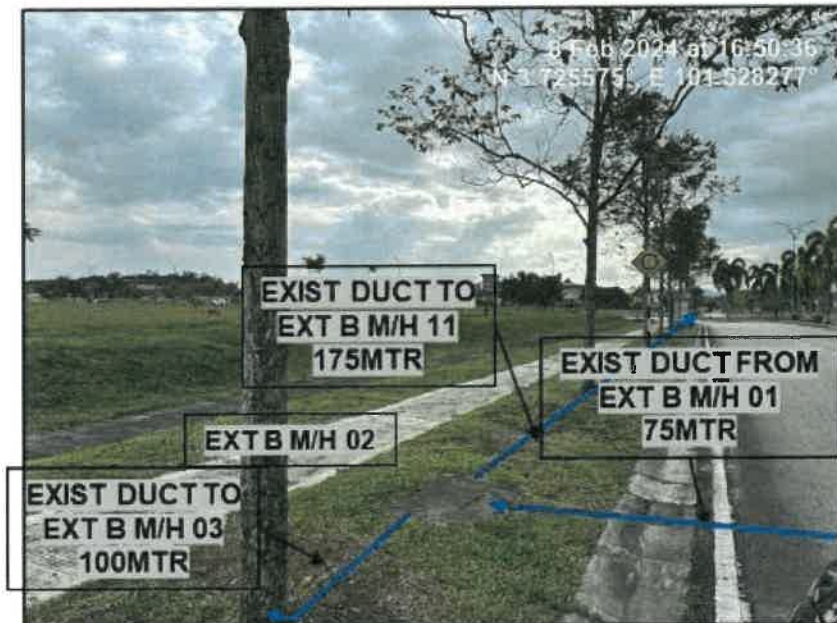
**PICTURE 09: LOCATION AT UNNAMED ROAD**



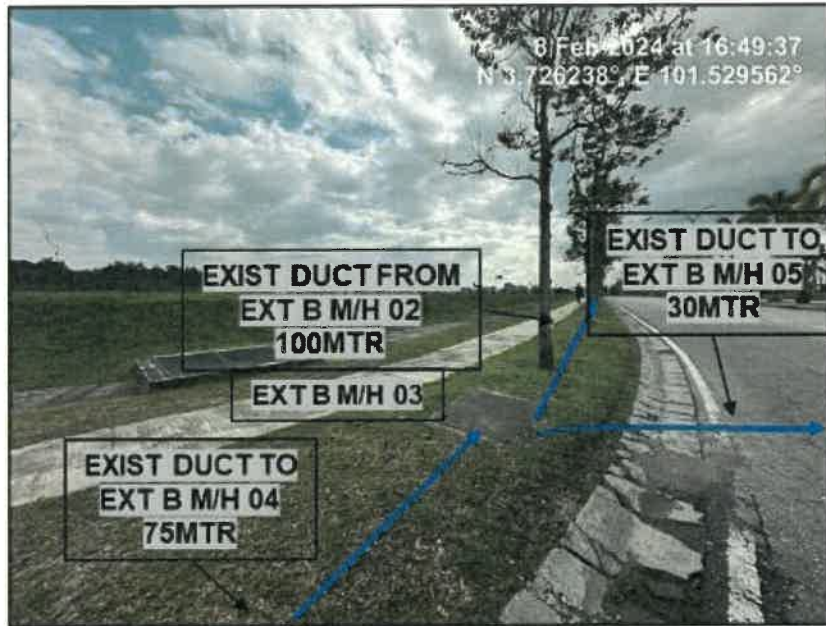
**PICTURE 10: LOCATION AT UNNAMED ROAD**



**PICTURE 11: LOCATION AT ENTRANCE UPSI**



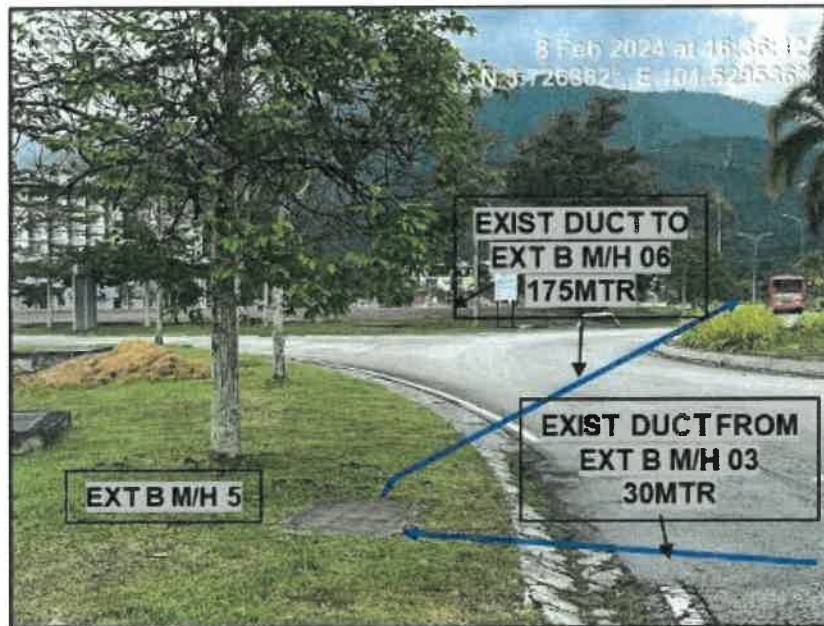
**PICTURE 12: LOCATION AT JALAN LINGKARAN TASEK**



**PICTURE 13: LOCATION AT JALAN LINGKARAN TASEK**



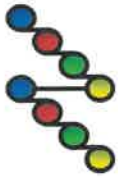
**PICTURE 14: LOCATION AT JALAN LINGKARAN TASEK**



**PICTURE 15: LOCATION AT JALAN LINGKARAN TASEK**



**PICTURE 16: LOCATION AT JALAN LINGKARAN TASEK**



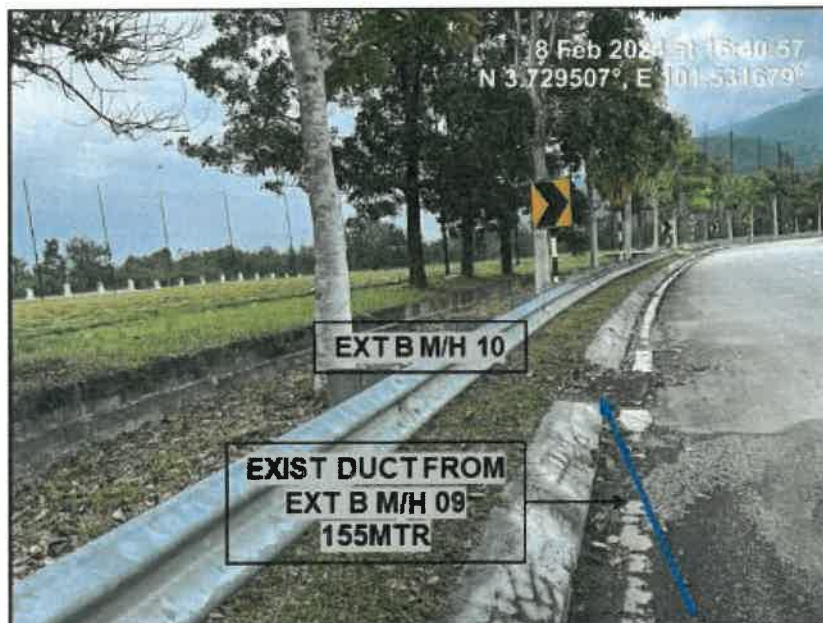
**PICTURE 17: LOCATION AT JALAN LINGKARAN TASEK**



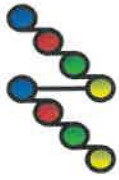
**PICTURE 18: LOCATION AT JALAN LINGKARAN TASEK**



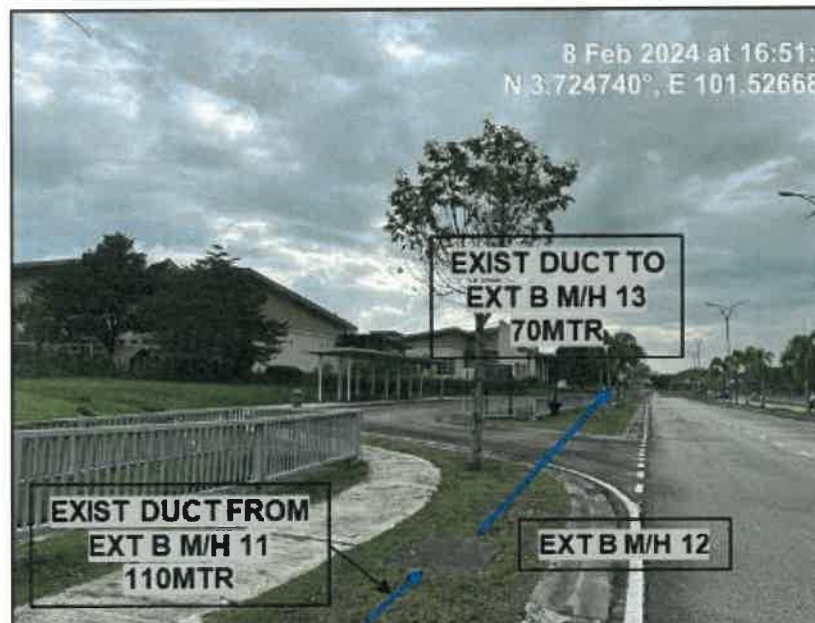
**PICTURE 19: LOCATION AT JALAN LINGKARAN TASEK**



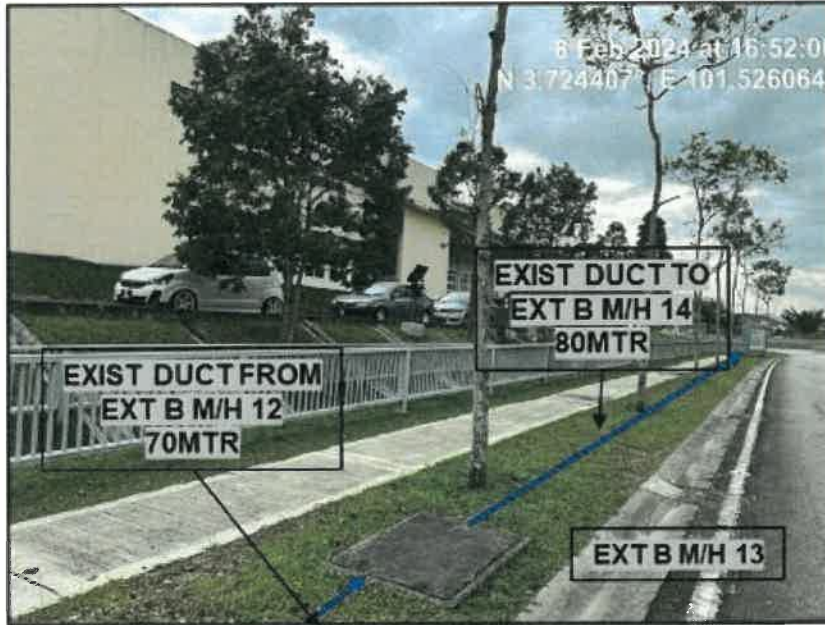
**PICTURE 20: LOCATION AT JALAN LINGKARAN TASEK**



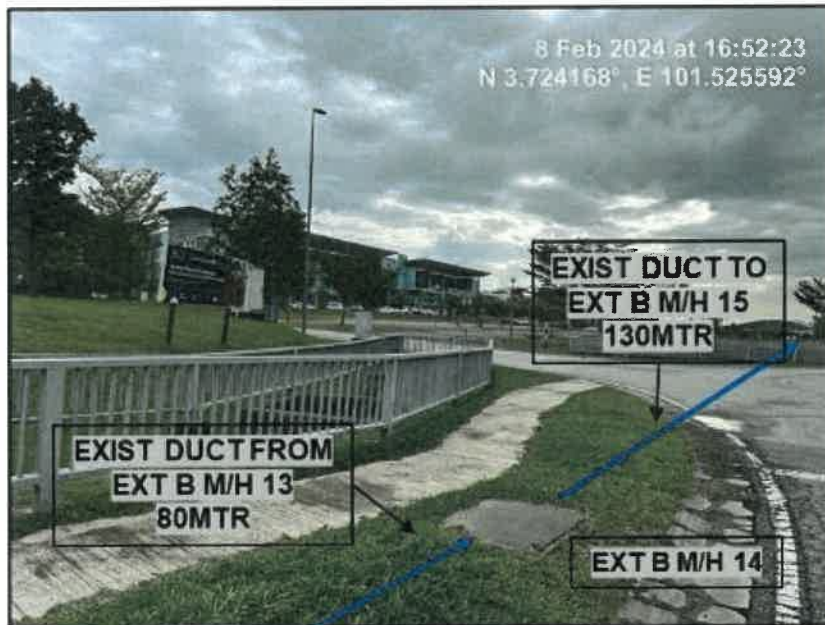
**PICTURE 21: LOCATION AT JALAN LINGKARAN TASEK**



**PICTURE 22: LOCATION AT JALAN LINGKARAN TASEK**



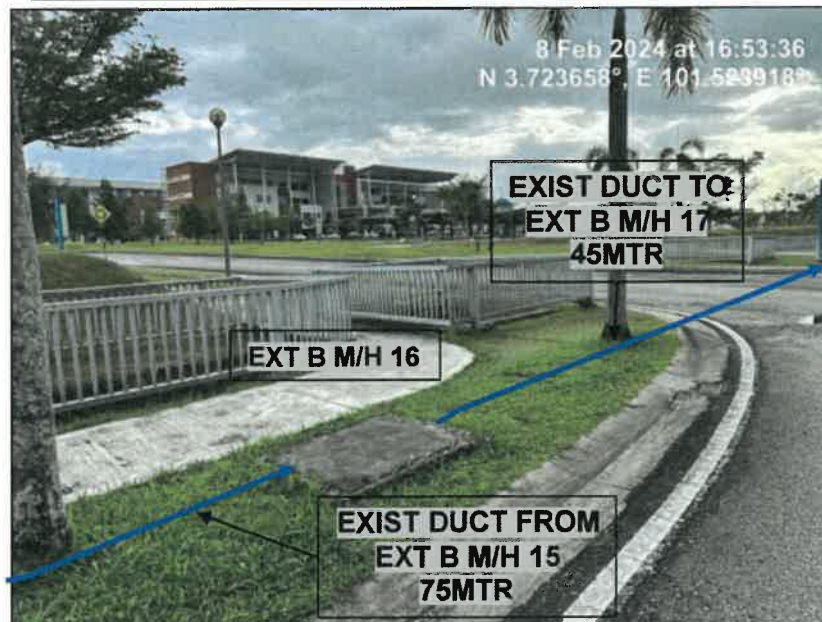
**PICTURE 23: LOCATION AT JALAN LINGKARAN TASEK**



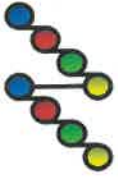
**PICTURE 24: LOCATION AT JALAN LINGKARAN TASEK**



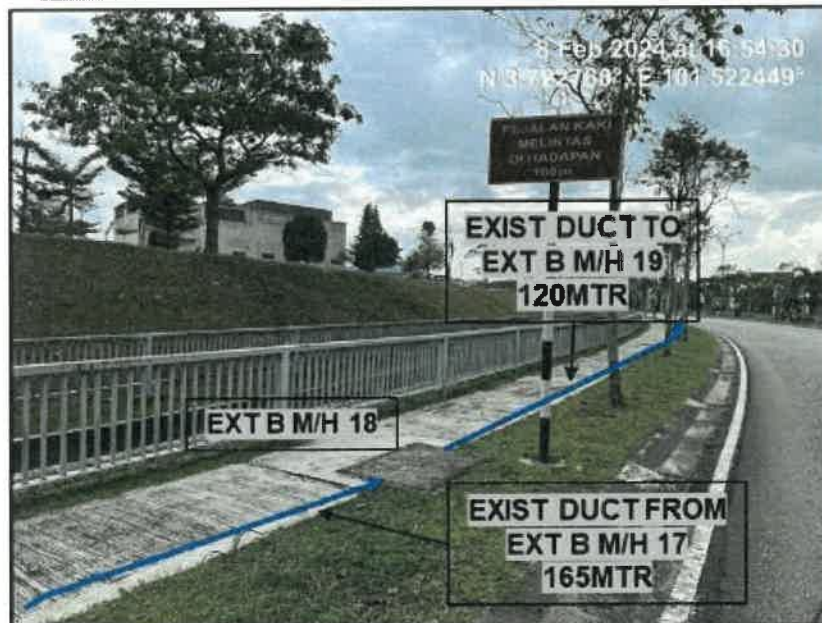
**PICTURE 25: LOCATION AT JALAN LINGKARAN TASEK**



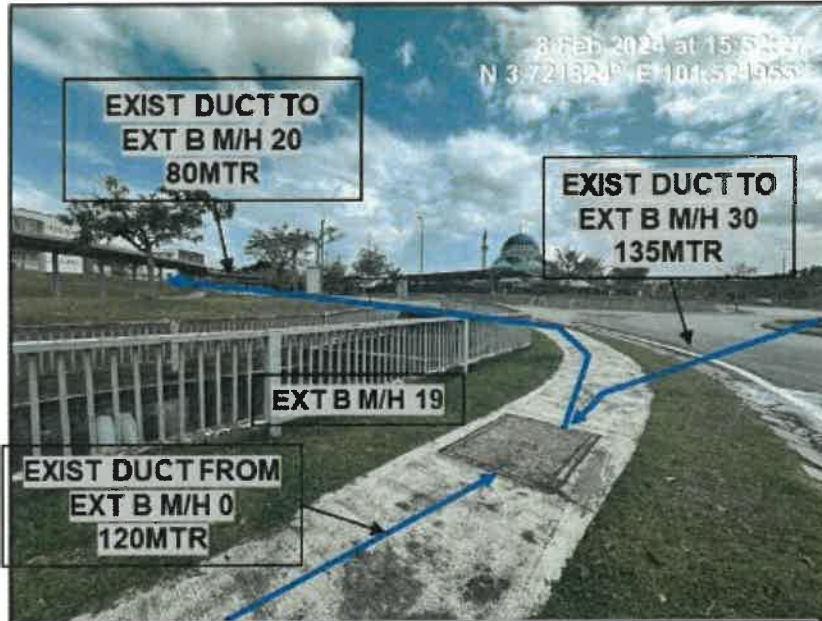
**PICTURE 26: LOCATION AT JALAN LINGKARAN TASEK**



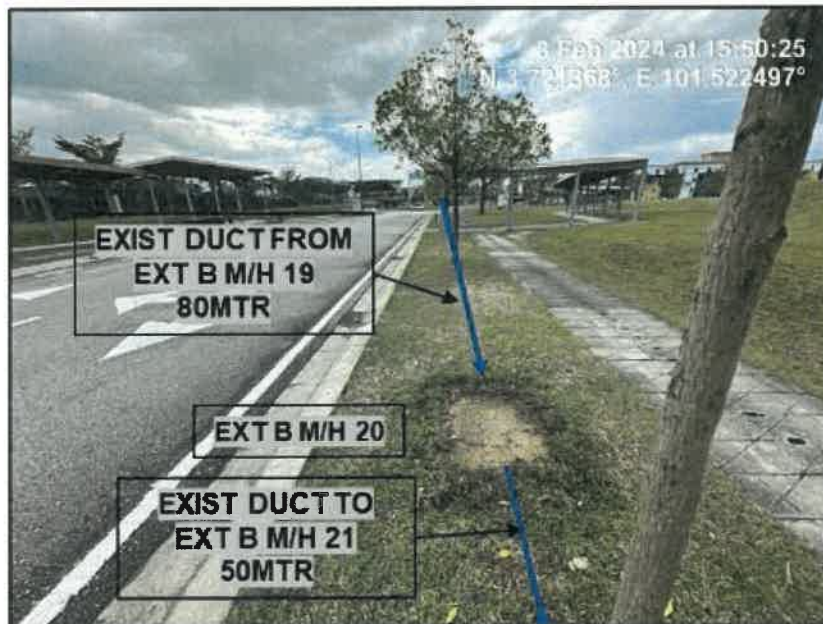
PICTURE 27: LOCATION AT JALAN LINGKARAN TASEK



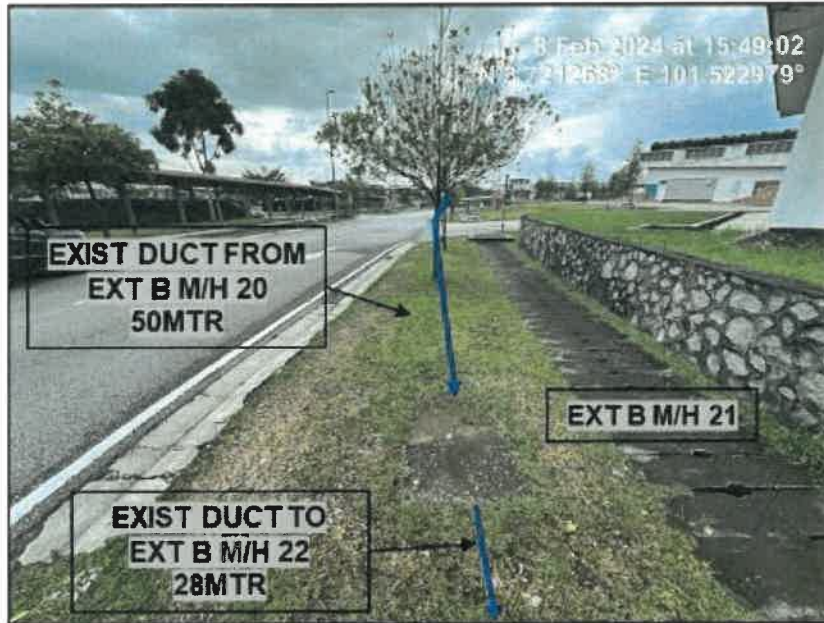
PICTURE 28: LOCATION AT JALAN LINGKARAN TASEK



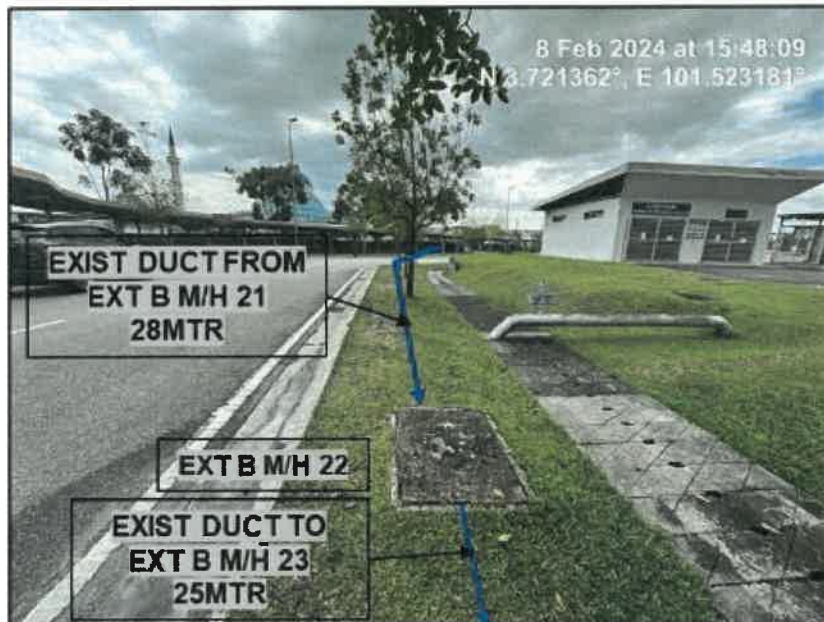
**PICTURE 29: LOCATION AT JALAN LINGKARAN TASEK**



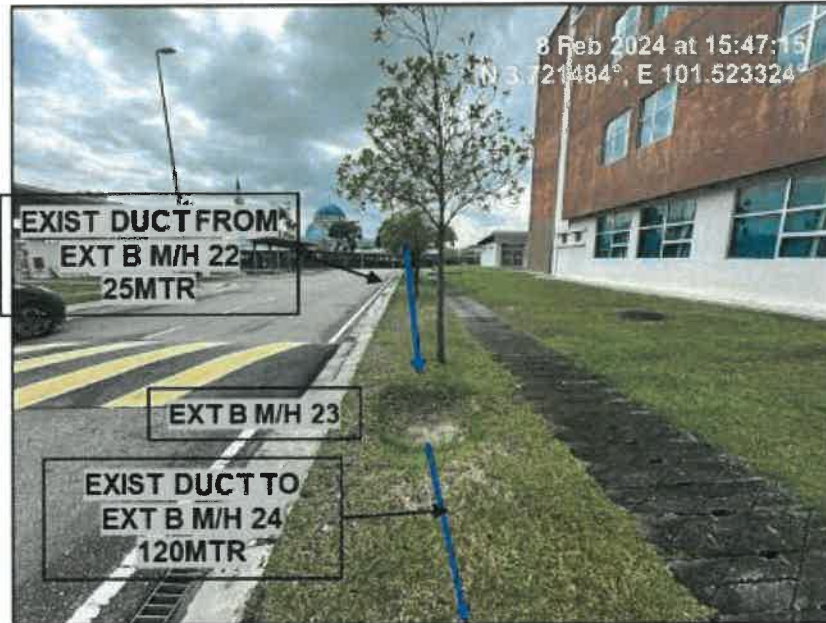
**PICTURE 30: LOCATION AT UNNAMED ROAD**



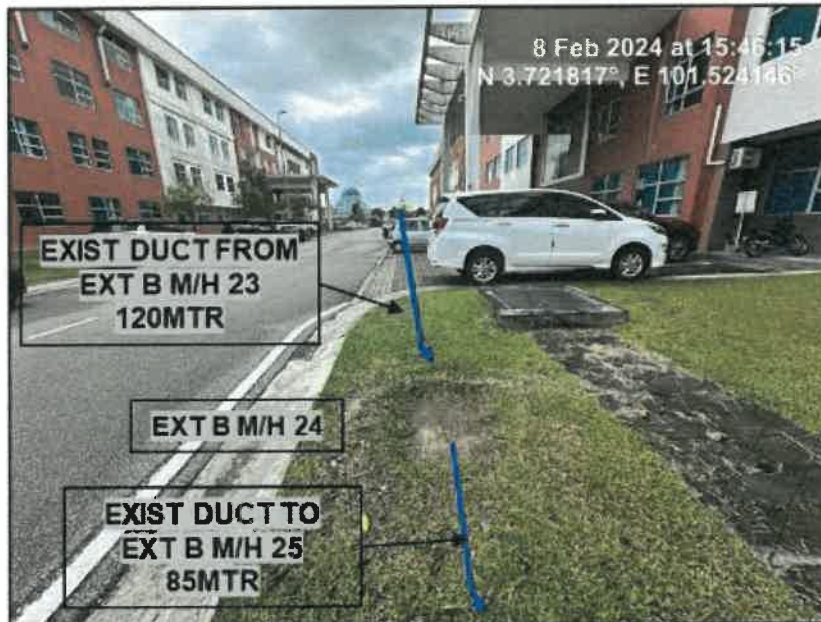
**PICTURE 31: LOCATION AT UNNAMED ROAD**



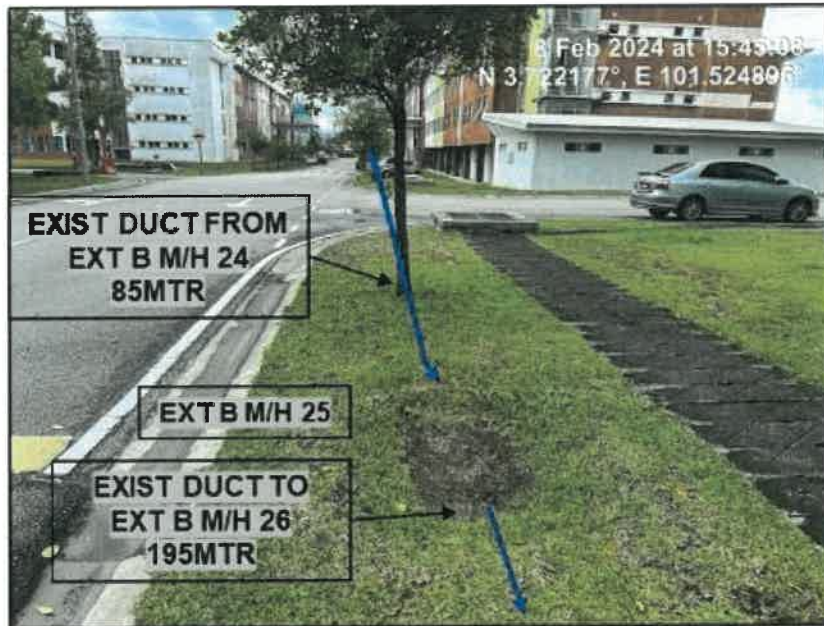
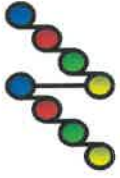
**PICTURE 32: LOCATION AT UNNAMED ROAD**



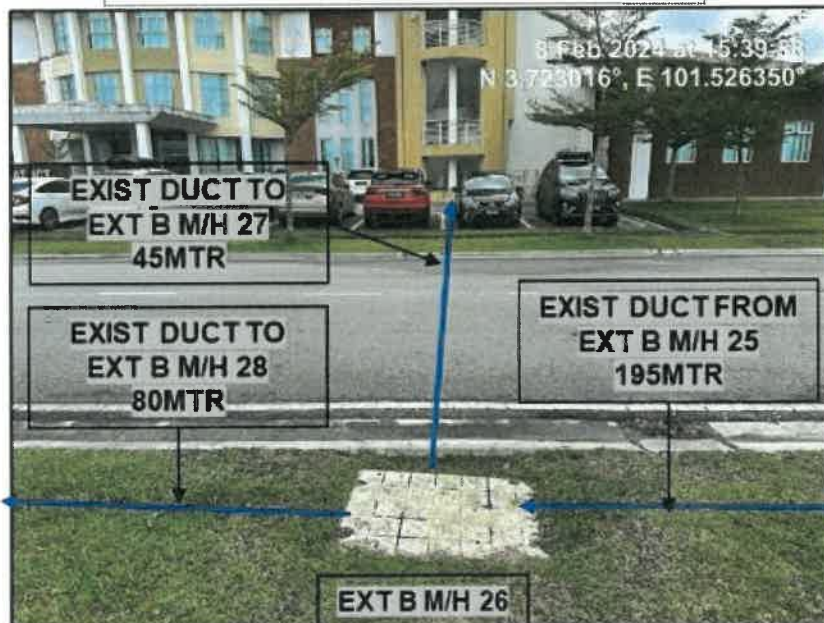
PICTURE 33: LOCATION AT UNNAMED ROAD



PICTURE 34: LOCATION AT UNNAMED ROAD

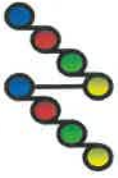


**PICTURE 35: LOCATION AT UNNAMED ROAD**



**PICTURE 36: LOCATION AT UNNAMED ROAD**





**PICTURE 39: LOCATION AT UNNAMED ROAD**



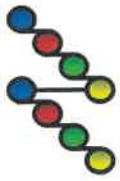
**PICTURE 40: LOCATION AT JALAN LINGKARAN TASEK**



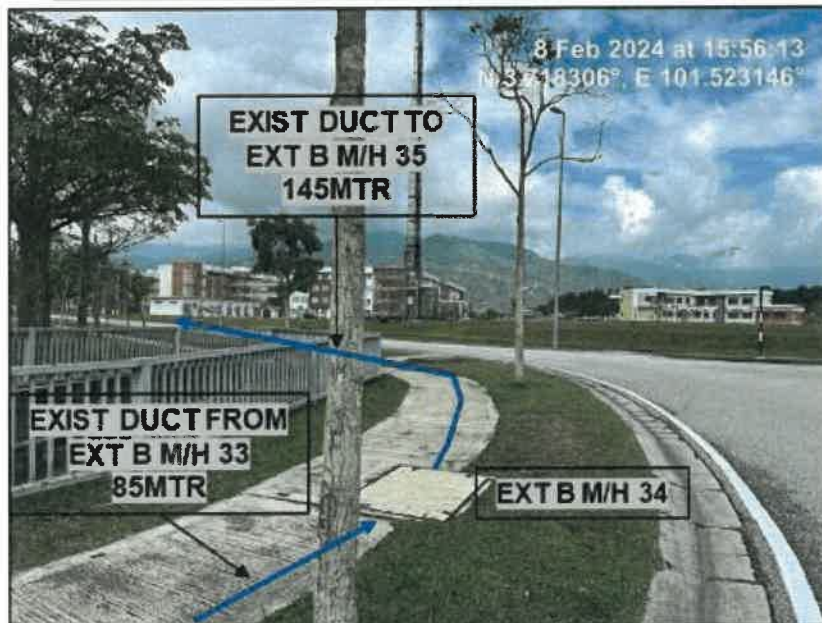
PICTURE 41: LOCATION AT JALAN LINGKARAN TASEK



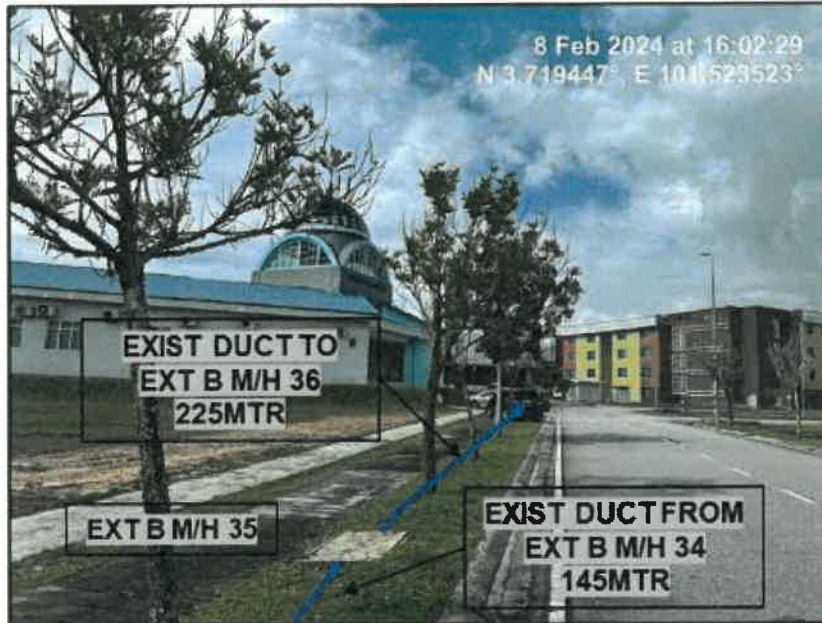
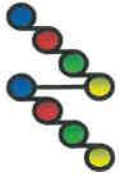
PICTURE 42: LOCATION AT JALAN LINGKARAN TASEK



**PICTURE 43: LOCATION AT JALAN LINGKARAN TASEK**



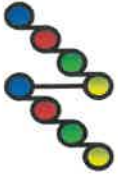
**PICTURE 44: LOCATION AT JALAN LINGKARAN TASEK**



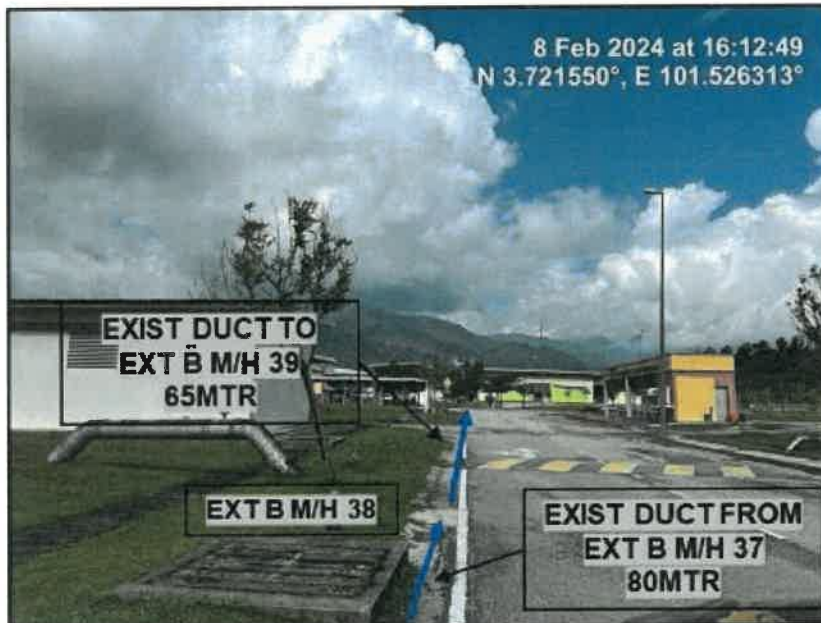
**PICTURE 45: LOCATION AT UNNAMED ROAD**



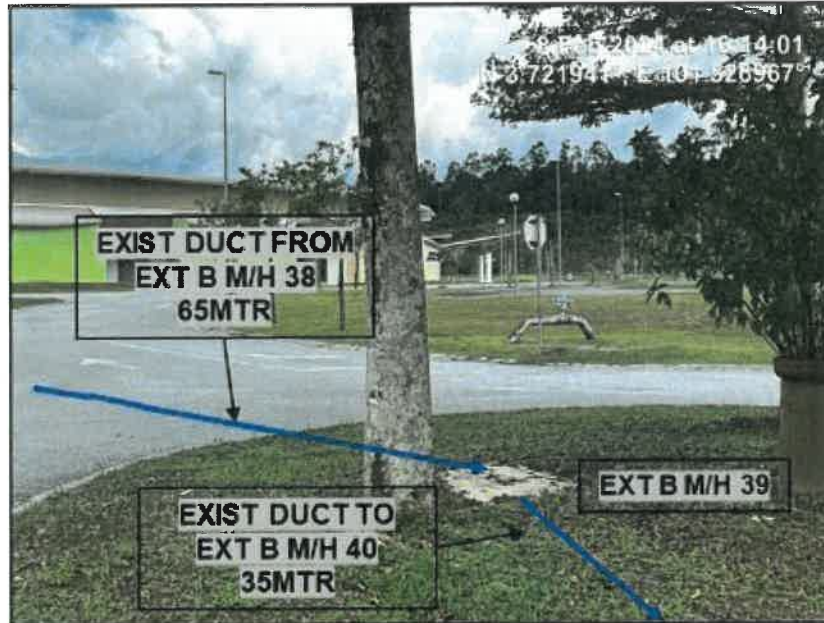
**PICTURE 46: LOCATION AT UNNAMED ROAD**



**PICTURE 47: LOCATION AT UNNAMED ROAD**



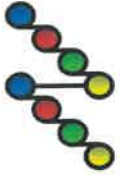
**PICTURE 48: LOCATION AT UNNAMED ROAD**



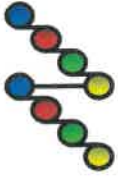
**PICTURE 49: LOCATION AT UNNAMED ROAD**



**PICTURE 50: LOCATION AT UNNAMED ROAD**



**PICTURE 51: LOCATION AT UNNAMED ROAD**



5. Link Attenuation Calculation Reference

S = Total splice count in a single link

L = Total length of cable in a single link

C = Total connector count in a single link.

A) FIBER LOSS FOR 1310 nm WAVELENGTH

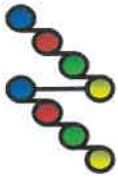
$$\begin{aligned}
\text{TOTAL LOSS} &= 0.15 \quad (\text{S}) \quad + \quad 0.35 \quad (\text{L}) \quad + \quad (\text{C}) \\
&= 0.15 \quad (3) \quad + \quad 0.35 \quad (0.15) \quad + \quad (2) \\
&= 0.45 \quad + \quad 0.0525 \quad + \quad 2 \\
&= 2.5025 \\
&= 2.5
\end{aligned}$$

B) FIBER LOSS FOR 1550 nm WAVELENGTH

$$\begin{aligned}
\text{TOTAL LOSS} &= 0.10 \quad (\text{S}) \quad + \quad 0.25 \quad (\text{L}) \quad + \quad 0.5 \quad (\text{C}) \\
&= 0.10 \quad (3) \quad + \quad 0.25 \quad (0.15) \quad + \quad 0.5 \quad (2) \\
&= 0.3 \quad + \quad 0.0375 \quad + \quad 1 \\
&= 1.3375 \\
&= 1.34
\end{aligned}$$

$$\text{MAXIMUM END TO END VALUE FOR 1310 nm} = 21.91 \quad \text{dBm}$$

$$\text{MAXIMUM END TO END VALUE FOR 1550 nm} = 21.82 \quad \text{dBm}$$

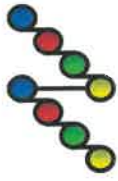


**6. Home pass / Premises pass Address**

Site / Boundary Name	:	PROJECT F – FTTH PROTON CITY TANJUNG MALIM
Block / Row	:	COMMERCIAL ENTERPRISE
Home pass / Premise pass Count	:	147HP/PP

No.	Location Type	Building Type	Unit No.	Floor / Level	Block Name / Type	Building Name	Street Name	Garden / Section / Taman Name / Area	PostCode	Town / City	State	FDC/FDF	FDP
1	SDU	SHOPLOT	D-9-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP01
2	SDU	SHOPLOT	D-10-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP01
3	SDU	SHOPLOT	D-11-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP01
4	SDU	SHOPLOT	D-12-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP01
5	SDU	SHOPLOT	D-13-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP01
6	SDU	SHOPLOT	D-14-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP01
7	SDU	SHOPLOT	D-9-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP01
8	SDU	SHOPLOT	D-10-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP01
9	SDU	SHOPLOT	D-11-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP01
10	SDU	SHOPLOT	D-12-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP01
11	SDU	SHOPLOT	D-13-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP01
12	SDU	SHOPLOT	D-14-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP01
13	SDU	SHOPLOT	D-5-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP02
14	SDU	SHOPLOT	D-6-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP02
15	SDU	SHOPLOT	D-7-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP02
16	SDU	SHOPLOT	D-8-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP02
17	SDU	SHOPLOT	D-5-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP02
18	SDU	SHOPLOT	D-6-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP02
19	SDU	SHOPLOT	D-7-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP02
20	SDU	SHOPLOT	D-8-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP02
21	SDU	SHOPLOT	D-1-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP03
22	SDU	SHOPLOT	D-2-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP03
23	SDU	SHOPLOT	D-3-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP03
24	SDU	SHOPLOT	D-4-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP03
25	SDU	SHOPLOT	D-1-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP03
26	SDU	SHOPLOT	D-2-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP03
27	SDU	SHOPLOT	D-3-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP03
28	SDU	SHOPLOT	D-4-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP03
29	SDU	SHOPLOT	C-1-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP04
30	SDU	SHOPLOT	C-2-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP04
31	SDU	SHOPLOT	C-3-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP04
32	SDU	SHOPLOT	C-4-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP04
33	SDU	SHOPLOT	C-5-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP04
34	SDU	SHOPLOT	C-1-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP04
35	SDU	SHOPLOT	C-2-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP04
36	SDU	SHOPLOT	C-3-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP04
37	SDU	SHOPLOT	C-4-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP04
38	SDU	SHOPLOT	C-5-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP04
39	SDU	SHOPLOT	C-6-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP05
40	SDU	SHOPLOT	C-7-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP05
41	SDU	SHOPLOT	C-8-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP05
42	SDU	SHOPLOT	C-9-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP05
43	SDU	SHOPLOT	C-6-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP05
44	SDU	SHOPLOT	C-7-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP05
45	SDU	SHOPLOT	C-8-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP05





101	SDU	SHOPLOT	A-13-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP12
102	SDU	SHOPLOT	A-14-1	1			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP12
103	SDU	SHOPLOT	A-11-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP12
104	SDU	SHOPLOT	A-12-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP12
105	SDU	SHOPLOT	A-13-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP12
106	SDU	SHOPLOT	A-14-2	2			JALAN PULAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP12
107	SDU	FACTORY	LOT 17345			NEW FACTORY	JALAN JELAWAI 4	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP13
108	SDU	FACTORY	LOT 17379			NILAI MAHIR	JALAN JELAWAI 2	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP15
109	SDU	FACTORY	LOT 17380			NILAI MAHIR	JALAN JELAWAI 2	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP15
110	SDU	FACTORY	LOT 17382			KOMPLEKS HAMODAL	JALAN JELAWAI 2	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP15
111	SDU	FACTORY	LOT 17383			KOMPLEKS HAMODAL	JALAN JELAWAI 2	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP15
112	SDU	FACTORY	LOT 17384			KOMPLEKS HAMODAL	JALAN JELAWAI 2	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP15
113	SDU	FACTORY	LOT 17332			FITRI DEVELOPMENT	JALAN JELAWAI 2	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP14
114	SDU	FACTORY	LOT 17335			FITRI DEVELOPMENT	JALAN JELAWAI 2	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP14
115	SDU	FACTORY	LOT 17344			NEW FACTORY	JALAN JELAWAI 2	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP14
116	SDU	FACTORY	LOT17320			POS LOGISTIC	JALAN JELAWAI 3	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP16
117	SDU	FACTORY	LOT 17323			IQM INDUSTRIAL (NO 3)	JALAN JELAWAI 3	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP16
118	SDU	FACTORY	LOT 17325			EP POLYMERS (M) SDN BHD	JALAN JELAWAI 3	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP16
119	SDU	FACTORY	LOT 17330			FITRI DEVELOPMENT	JALAN JELAWAI 3	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP16
120	SDU	FACTORY	LOT 17334			FITRI DEVELOPMENT	JALAN JELAWAI 3	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP16
121	SDU	FACTORY	LOT 17385			JHC GROUP	JALAN JELAWAI 2	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP17
122	SDU	FACTORY	LOT 17386			JHC GROUP	JALAN JELAWAI 2	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP17
123	SDU	FACTORY	LOT 17388			HICOM HBPO SDN BHD	JALAN JELAWAI 2	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP17
124	SDU	FACTORY	LOT 17313			ACO (1)	JALAN JELAWAI	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP18
125	SDU	FACTORY	LOT 17314			ACO (2)	JALAN JELAWAI	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP18
126	SDU	FACTORY	LOT 17315			(VACANT FACTORY)	JALAN JELAWAI	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP18
127	SDU	FACTORY	LOT 17319			IQM INDUSTRIAL (NO 2)	JALAN JELAWAI	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP19
128	SDU	FACTORY	LOT 17321			IQM INDUSTRIAL (NO 3)	JALAN JELAWAI	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP19
129	SDU	FACTORY	LOT 17324			TOUPU MALAYSIA SDN. BHD.	JALAN JELAWAI	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP19
130	SDU	FACTORY	LOT 17300			AZMAN HAMZAH PLASTIC SDN BHD	JALAN JELAWAI	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP20
131	SDU	FACTORY	LOT 35133			AUTO PART MANUFACTURER CO. SDN BHD	JALAN JELAWAI	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP20
132	SDU	FACTORY	LOT 17293			INDUSTRIAL QUALITY MANAGEMENT SDN BHD	JALAN JELUTONG	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP21
133	SDU	FACTORY	LOT 17294			NEW FACTORY	JALAN JELUTONG	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP21
134	SDU	FACTORY	LOT 17299			AZMAN HAMZAH PLASTIC SDN BHD	JALAN JELUTONG	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP21
135	SDU	FACTORY	LOT 17288			AAPIO AVEE SDN BHD	JALAN JELAWAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP22
136	SDU	FACTORY	LOT 17292			AAPIO AVEE SDN BHD	JALAN JELAWAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP22
137	SDU	FACTORY	LOT 17302			XINQUAN HICOM (M) SDN BHD	JALAN JELAWAI	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP22
138	SDU	FACTORY	LOT 17303			XINQUAN HICOM (M) SDN BHD	JALAN JELAWAI	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP22
139	SDU	FACTORY	LOT 17305			AUTOMOTIVE INDUSTRIES SDN BHD	JALAN JELAWAI	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP22
140	SDU	FACTORY	LOT 17308			PHN INDUSTRY SDN.BHD (TANJUNG MALIM PLANT)	JALAN JELAWAI	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP23
141	SDU	FACTORY	LOT 17310			TUOPU (M) SDN BHD	JALAN JELAWAI	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP23
142	SDU	FACTORY	LOT 17285			HICOM-TECK SEE TANJUNG MALIM PLANT 2	JALAN JELAWAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP24



143	SDU	FACTORY	LOT 17286			DELLOYD INDUSTRIES SDN BHD	JALAN JELAWAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP24
144	SDU	FACTORY	LOT 17279			HICOM-TECK SEE MANUFACTURING MALAYSIA SDN.BHD	JALAN JELAWAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP25
145	SDU	FACTORY	LOT 17280			HICOM-TECK SEE MANUFACTURING MALAYSIA SDN.BHD	JALAN JELAWAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP25
146	SDU	FACTORY	LOT 17281			INDUSTRIAL QUALITY MANAGEMENT (IQM LOT 12)	JALAN JELAWAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP25
147	SDU	FACTORY	LOT 17287			LEAR AUTOMOTIVE (M) SDN BHD	JALAN JELAWAI 1	PROTON CITY	35900	TANJONG MALIM	PERAK	FDC01	FDP25