

# TECHNICAL PROPOSAL

## POP2 AEE7033 SEKOLAH MENENGAH KEBANGSAAN TUN SABAN (D-SIDE)

**Company Name** : WabTech Sdn Bhd  
**Company Address** : 101-1, Jalan Metro Sendayan, 71950 Seremban, Negeri Sembilan.  
**Prepared By** : Sharifful Bahrin bin Che Meh  
**Date** : 19/2/2025



**Point A**



**Point B**

**Starting Point**

**Site / Boundary Name** : Sekolah Menengah Kebangsaan Tun Saban  
**Address** : Jalan Tasek, 33100 Pengkalan Hulu, Perak  
**District** : Pengkalan Hulu  
**Postcode** : 33100  
**State** : Perak  
**GPS Coordinate** : 5.702083, 100.994370  
**LRD** : A

**End Point**

**Site / Boundary Name** : Kampung Selarong  
**Address** : Jalan Padang Jeneris 4B, 33100 Pengkalan Hulu, Perak  
**District** : Pengkalan Hulu  
**Postcode** : 33100  
**State** : Perak  
**GPS Coordinate** : 5.689772, 100.993123  
**LRD** : B



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



WRBTECH SDN BHD  
ESTABLISHED 2011

## 1.0 WORK SUMMARY

| NO    | PROPOSED DISTANCE AND METHOD          | UNIT | QUANTITY |
|-------|---------------------------------------|------|----------|
| 1     | Horizontal Directional Drilling (HDD) | m    | 70       |
| 2     | Carriage Way Open Trench (CW)         | m    | 0        |
| 3     | Grass Verge Open Trenching (GV)       | m    | 0        |
| 4     | Micro Trenching (MT)                  | m    | 0        |
| Total |                                       |      |          |

| NO | OTHER INFORMATION  | UNIT | QUANTITY |
|----|--|------|----------|
| 1  | Installation of Short Span ADSS Fibre Cables                                     | m    | 4438     |
| 2  | Install New Pole   | ea   | 99       |
| 3  | Install New JRC7 Manhole   | ea   | 2        |
| 4  | Install GI Riser 100mm   | ea   | 2        |
| 5  | Install Fiber Distribution Point and Closure (Splicing, Termination and Testing) | ea   | 22       |
| 6  | Estimated Time Required for Completion   | days | 30       |



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



WABTECH SDN BHD  
1508087-X

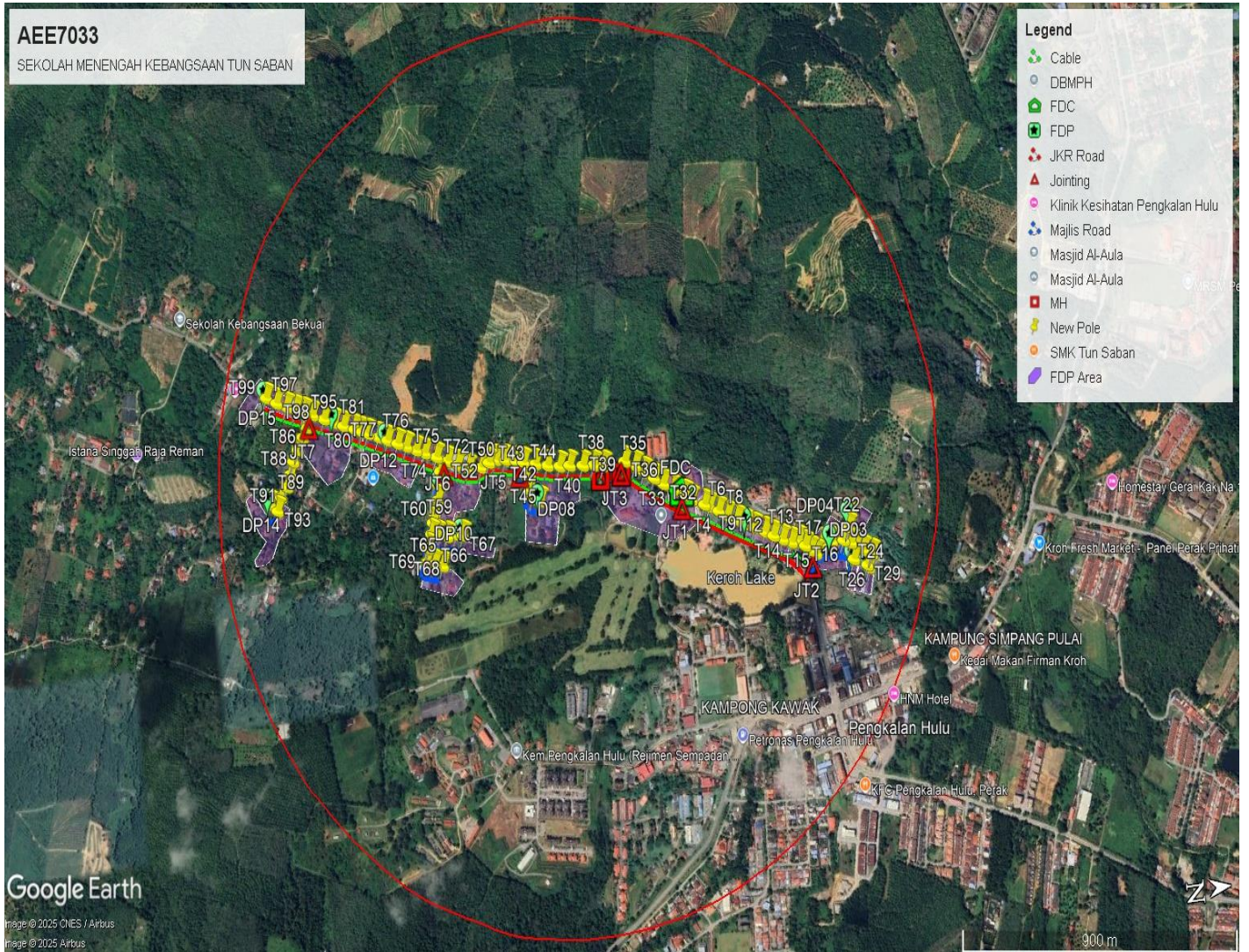
## 2.0 LOCAL AUTHORITY SUMMARY

Daerah Pengkalan Hulu

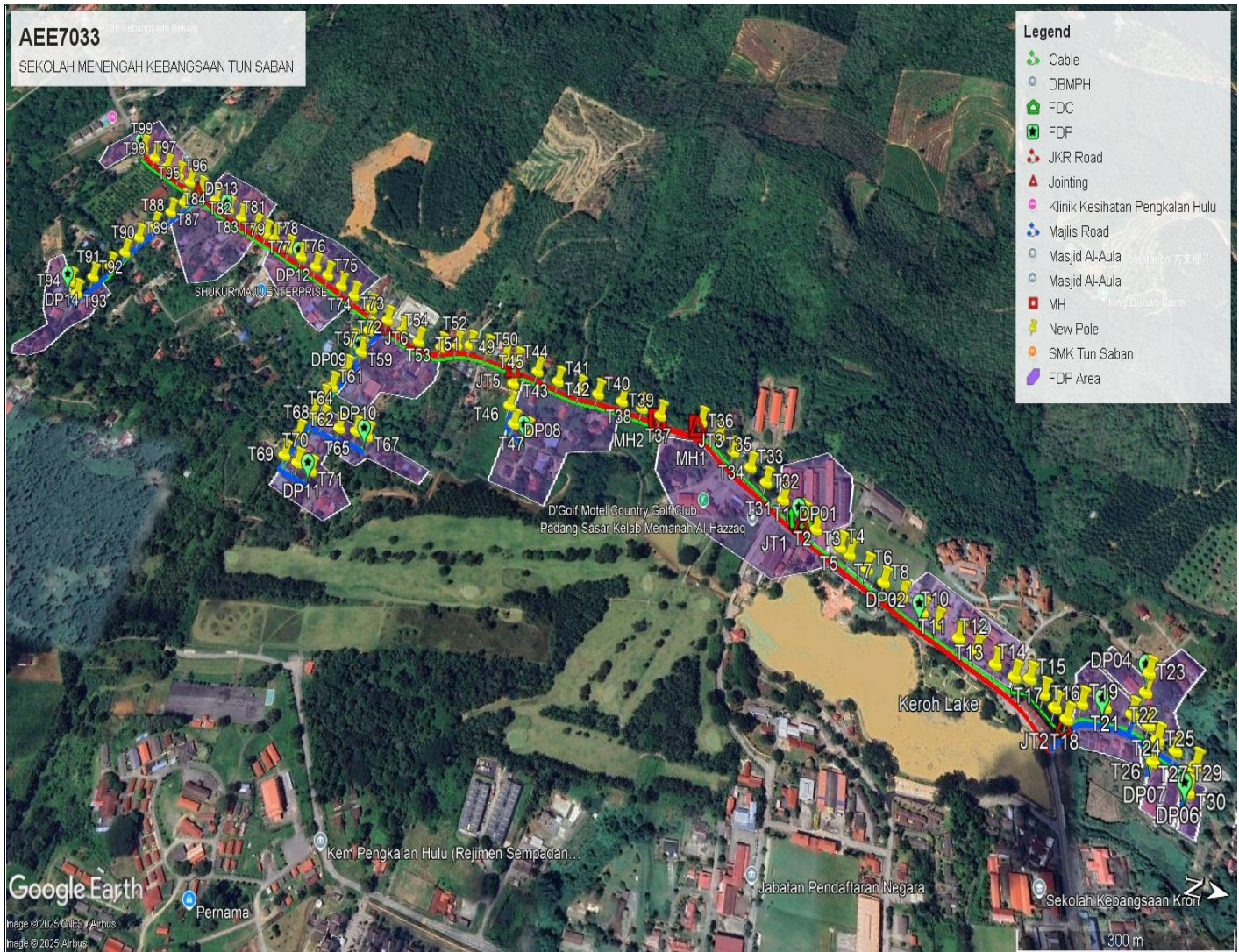
| NO                        | ITEMS    | Owner  | Quantity | Distance (m) |
|---------------------------|----------|--------|----------|--------------|
| 1                         | HDD      | JKR    | 1        | 70           |
|                           |          | Majlis | -        | -            |
|                           |          | PDT    | -        | -            |
| 2                         | New Pole | JKR    | 58       | 1895         |
|                           |          | Majlis | 41       | 1273         |
|                           |          | PDT    | -        | -            |
| <b>Total Distance (m)</b> |          |        |          | <b>3238</b>  |

### 3.0 SITE PLAN (KMZ)

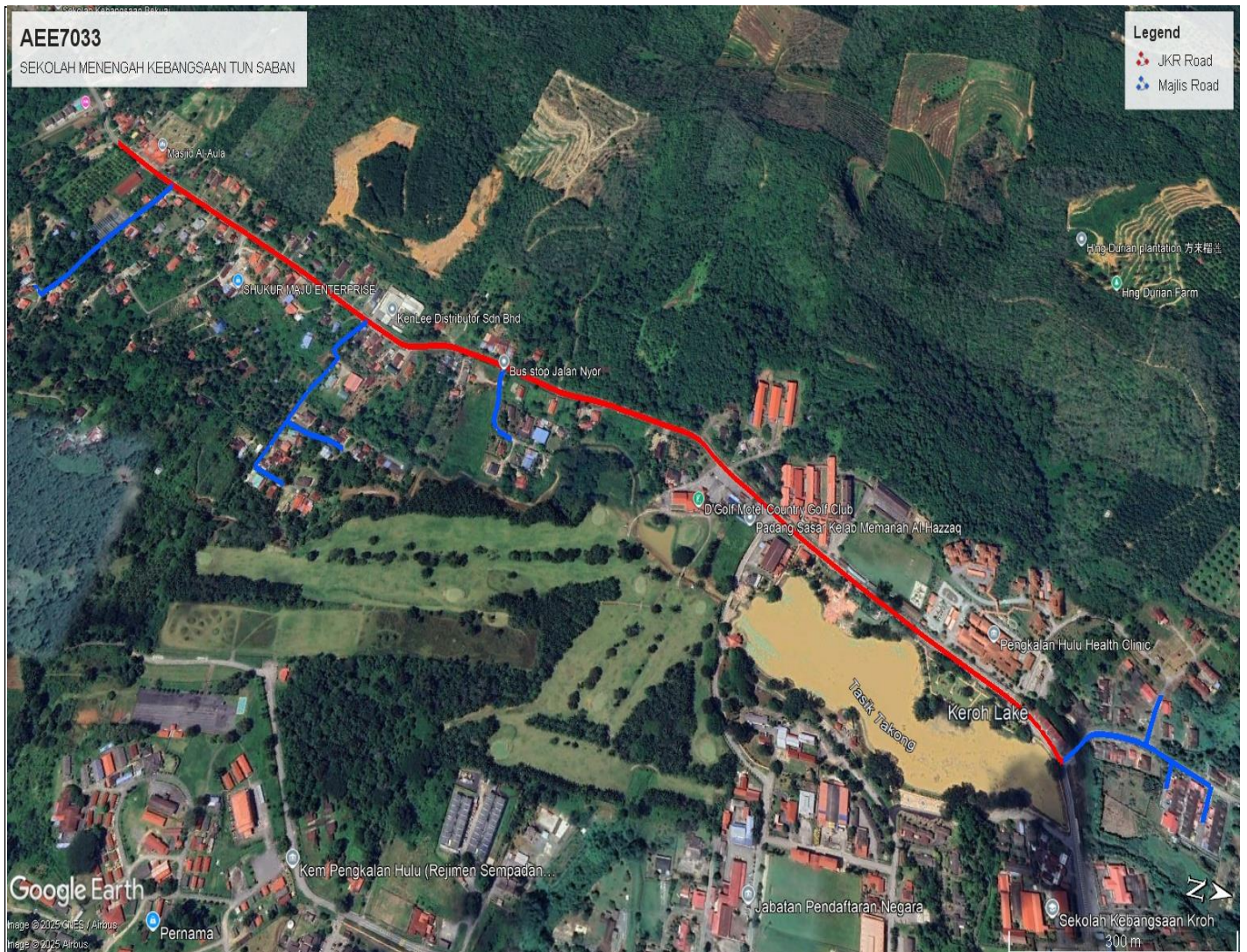
#### 3.1 Overview Site Area



### 3.2 Site boundary



### 3.3 Road Boundary



#### 4.0 PROPOSED NEW POLE

| Proposed New Pole Coordinate |             |              |          |            |                              |
|------------------------------|-------------|--------------|----------|------------|------------------------------|
| No.                          | Pole Number | Distance (m) | Latitude | Longitude  | Local Authority              |
| 1                            | FDC POLE    | 5            | 5.702125 | 100.994395 | JKR                          |
| 2                            | T001        | 5            | 5.702083 | 100.994370 | JKR                          |
| 3                            | T002        | 5            | 5.702125 | 100.994395 | JKR                          |
| 4                            | T003        | 25           | 5.702304 | 100.994527 | JKR                          |
| 5                            | T004        | 45           | 5.702674 | 100.994686 | JKR                          |
| 6                            | T005        | 18           | 5.702818 | 100.994752 | JKR                          |
| 7                            | T006        | 33           | 5.703082 | 100.994888 | JKR                          |
| 8                            | T007        | 31           | 5.703329 | 100.995027 | JKR                          |
| 9                            | T008        | 33           | 5.703597 | 100.995160 | JKR                          |
| 10                           | T009        | 36           | 5.703887 | 100.995305 | JKR                          |
| 11                           | T010        | 26           | 5.704099 | 100.995412 | JKR                          |
| 12                           | T011        | 36           | 5.704395 | 100.995548 | JKR                          |
| 13                           | T012        | 29           | 5.704634 | 100.995665 | JKR                          |
| 14                           | T013        | 32           | 5.704894 | 100.995787 | JKR                          |
| 15                           | T014        | 30           | 5.705151 | 100.995888 | JKR                          |
| 16                           | T015        | 24           | 5.705361 | 100.995858 | JKR                          |
| 17                           | T016        | 26           | 5.705545 | 100.996013 | JKR                          |
| 18                           | T017        | 21           | 5.705691 | 100.996140 | JKR                          |
| 19                           | T018        | 20           | 5.705846 | 100.996238 | Majlis Daerah Pengkalan Hulu |
| 20                           | T019        | 33           | 5.706053 | 100.996019 | Majlis Daerah Pengkalan Hulu |
| 21                           | T020        | 33           | 5.706352 | 100.996013 | Majlis Daerah Pengkalan Hulu |
| 22                           | T021        | 39           | 5.706703 | 100.996028 | Majlis Daerah Pengkalan Hulu |
| 23                           | T022        | 39           | 5.706895 | 100.995744 | Majlis Daerah Pengkalan Hulu |
| 24                           | T023        | 27           | 5.706949 | 100.995514 | Majlis Daerah Pengkalan Hulu |
| 25                           | T024        | 25           | 5.706919 | 100.996110 | Majlis Daerah Pengkalan Hulu |
| 26                           | T025        | 20           | 5.707027 | 100.996252 | Majlis Daerah Pengkalan Hulu |
| 27                           | T026        | 29           | 5.706959 | 100.996506 | Majlis Daerah Pengkalan Hulu |
| 28                           | T027        | 27           | 5.707259 | 100.996326 | Majlis Daerah Pengkalan Hulu |
| 29                           | T028        | 31           | 5.707511 | 100.996443 | Majlis Daerah Pengkalan Hulu |
| 30                           | T029        | 36           | 5.707387 | 100.996755 | Majlis Daerah Pengkalan Hulu |
| 31                           | T030        | 8            | 5.707345 | 100.996690 | Majlis Daerah Pengkalan Hulu |
| 32                           | T031        | 37           | 5.701788 | 100.994226 | JKR                          |
| 33                           | T032        | 37           | 5.701506 | 100.994055 | JKR                          |
| 34                           | T033        | 33           | 5.701249 | 100.993889 | JKR                          |
| 35                           | T034        | 37           | 5.700969 | 100.993708 | JKR                          |
| 36                           | T035        | 34           | 5.700722 | 100.993526 | JKR                          |
| 37                           | T036        | 37           | 5.700421 | 100.993385 | JKR                          |
| 38                           | T037        | 33           | 5.699784 | 100.993410 | JKR                          |

|    |      |    |          |            |                              |
|----|------|----|----------|------------|------------------------------|
| 39 | T038 | 33 | 5.699488 | 100.993363 | JKR                          |
| 40 | T039 | 36 | 5.699164 | 100.993331 | JKR                          |
| 41 | T040 | 44 | 5.698773 | 100.993280 | JKR                          |
| 42 | T041 | 40 | 5.698472 | 100.993264 | JKR                          |
| 43 | T042 | 40 | 5.698114 | 100.993204 | JKR                          |
| 44 | T043 | 40 | 5.697764 | 100.993122 | JKR                          |
| 45 | T044 | 24 | 5.697410 | 100.993046 | JKR                          |
| 46 | T045 | 35 | 5.697428 | 100.993366 | Majlis Daerah Pengkalan Hulu |
| 47 | T046 | 33 | 5.697441 | 100.993676 | Majlis Daerah Pengkalan Hulu |
| 48 | T047 | 31 | 5.697567 | 100.993918 | Majlis Daerah Pengkalan Hulu |
| 49 | T048 | 26 | 5.697795 | 100.994007 | Majlis Daerah Pengkalan Hulu |
| 50 | T049 | 23 | 5.697203 | 100.992998 | JKR                          |
| 51 | T050 | 36 | 5.696880 | 100.992916 | JKR                          |
| 52 | T051 | 33 | 5.696589 | 100.992881 | JKR                          |
| 53 | T052 | 24 | 5.696375 | 100.992919 | JKR                          |
| 54 | T053 | 28 | 5.696139 | 100.993010 | JKR                          |
| 55 | T054 | 42 | 5.695756 | 100.992988 | JKR                          |
| 56 | T055 | 36 | 5.695444 | 100.992867 | JKR                          |
| 57 | T056 | 36 | 5.695150 | 100.992736 | JKR                          |
| 58 | T057 | 37 | 5.694903 | 100.992954 | Majlis Daerah Pengkalan Hulu |
| 59 | T058 | 34 | 5.694721 | 100.993195 | Majlis Daerah Pengkalan Hulu |
| 60 | T059 | 21 | 5.694890 | 100.993299 | Majlis Daerah Pengkalan Hulu |
| 61 | T060 | 38 | 5.694752 | 100.993610 | Majlis Daerah Pengkalan Hulu |
| 62 | T061 | 36 | 5.694609 | 100.993906 | Majlis Daerah Pengkalan Hulu |
| 63 | T062 | 26 | 5.694544 | 100.994132 | Majlis Daerah Pengkalan Hulu |
| 64 | T063 | 29 | 5.694475 | 100.994388 | Majlis Daerah Pengkalan Hulu |
| 65 | T064 | 20 | 5.694646 | 100.994434 | Majlis Daerah Pengkalan Hulu |
| 66 | T065 | 32 | 5.694937 | 100.994502 | Majlis Daerah Pengkalan Hulu |
| 67 | T066 | 29 | 5.695209 | 100.994495 | Majlis Daerah Pengkalan Hulu |
| 68 | T067 | 22 | 5.695402 | 100.994533 | Majlis Daerah Pengkalan Hulu |
| 69 | T068 | 38 | 5.694355 | 100.994711 | Majlis Daerah Pengkalan Hulu |
| 70 | T069 | 38 | 5.694247 | 100.995039 | Majlis Daerah Pengkalan Hulu |
| 71 | T070 | 25 | 5.694483 | 100.995106 | Majlis Daerah Pengkalan Hulu |
| 72 | T071 | 27 | 5.694723 | 100.995176 | Majlis Daerah Pengkalan Hulu |
| 73 | T072 | 38 | 5.694835 | 100.992602 | JKR                          |
| 74 | T073 | 40 | 5.694494 | 100.992468 | JKR                          |
| 75 | T074 | 30 | 5.694247 | 100.992369 | JKR                          |
| 76 | T075 | 33 | 5.693973 | 100.992249 | JKR                          |
| 77 | T076 | 29 | 5.693725 | 100.992148 | JKR                          |
| 78 | T077 | 34 | 5.693433 | 100.992037 | JKR                          |
| 79 | T078 | 32 | 5.693166 | 100.991930 | JKR                          |
| 80 | T079 | 35 | 5.692870 | 100.991809 | JKR                          |
| 81 | T080 | 21 | 5.692688 | 100.991743 | JKR                          |
| 82 | T081 | 25 | 5.692475 | 100.991655 | JKR                          |



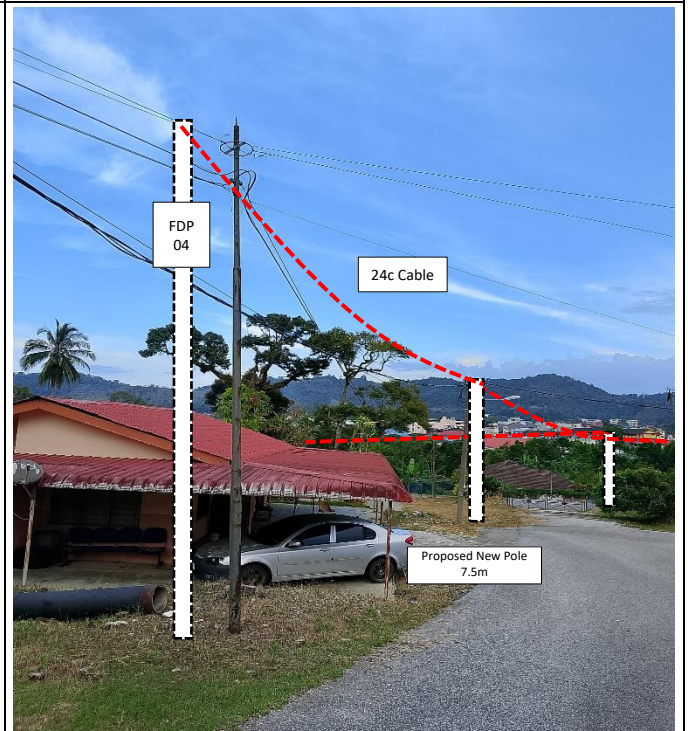
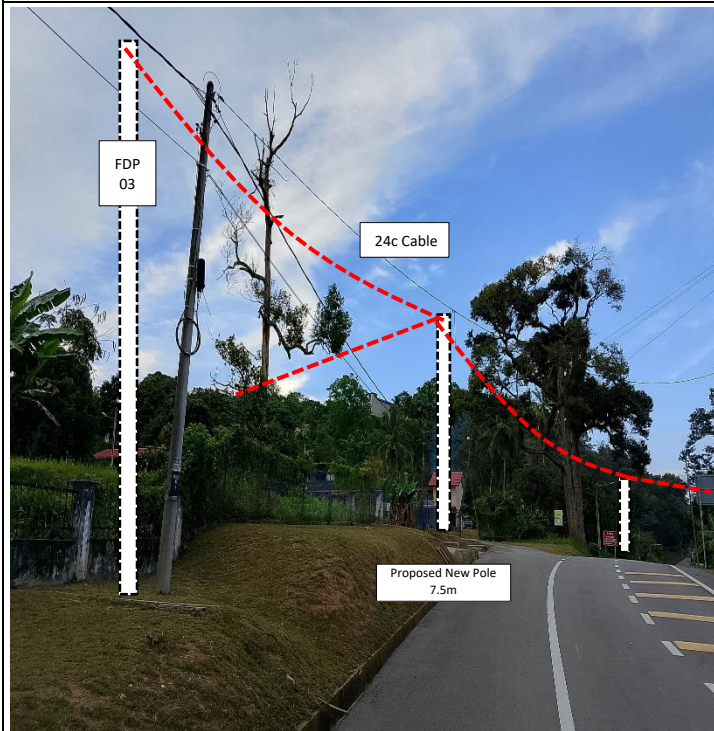
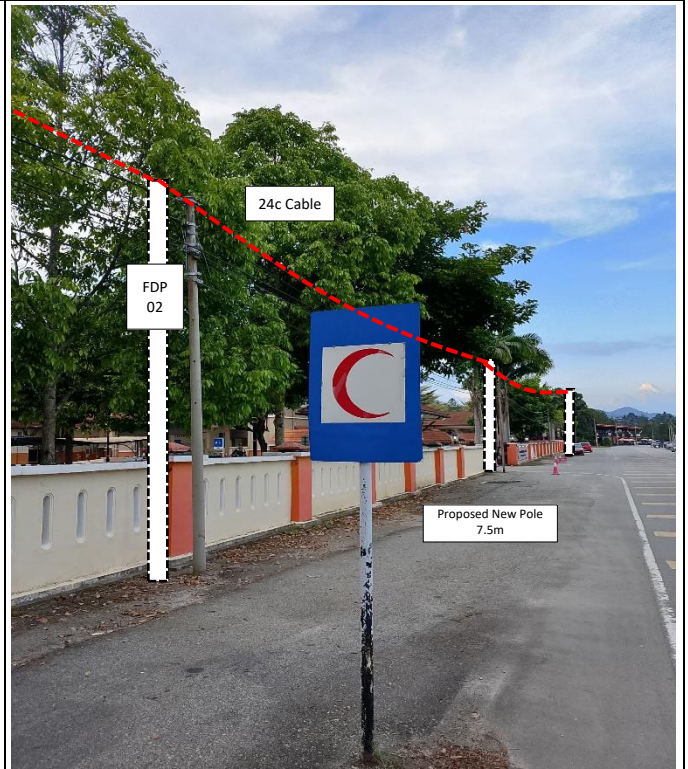
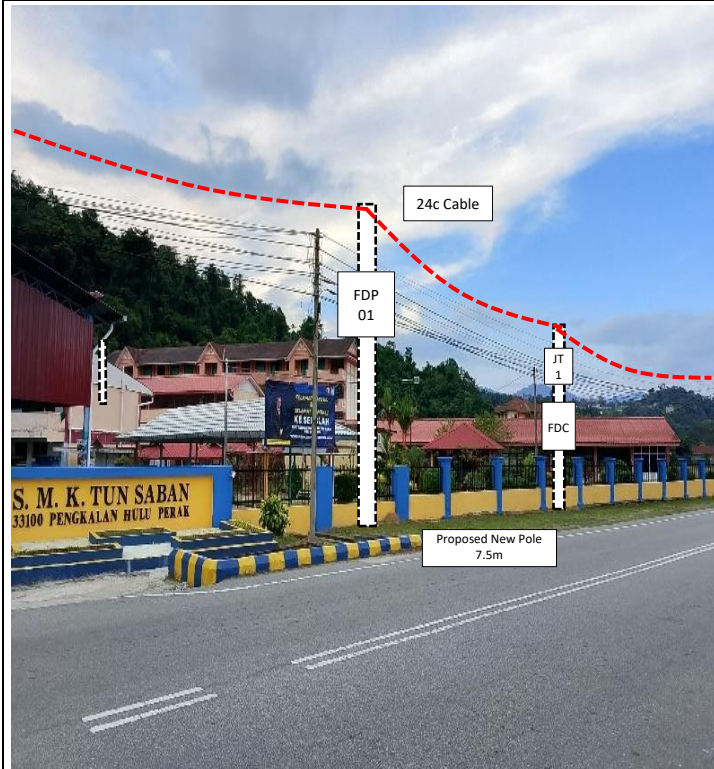
PROJEK PENYEDIAAN DAN PENYELENGGARAAN POINT OF PRESENCE (POP)  
 FASA 2: HAB INFRASTRUTUK GENTIAN OPTIK BERHAMPIRAN DENGAN  
 SEKOLAH, KAWASAN PERINDUSTRIAN, PREMIS KERAJAAN DAN KOMUNITI  
 SEKITARNYA OLEH KEMENTERIAN KOMUNIKASI MALAYSIA – ZON UTARA  
 (KKMM.400-11/17/132(1))

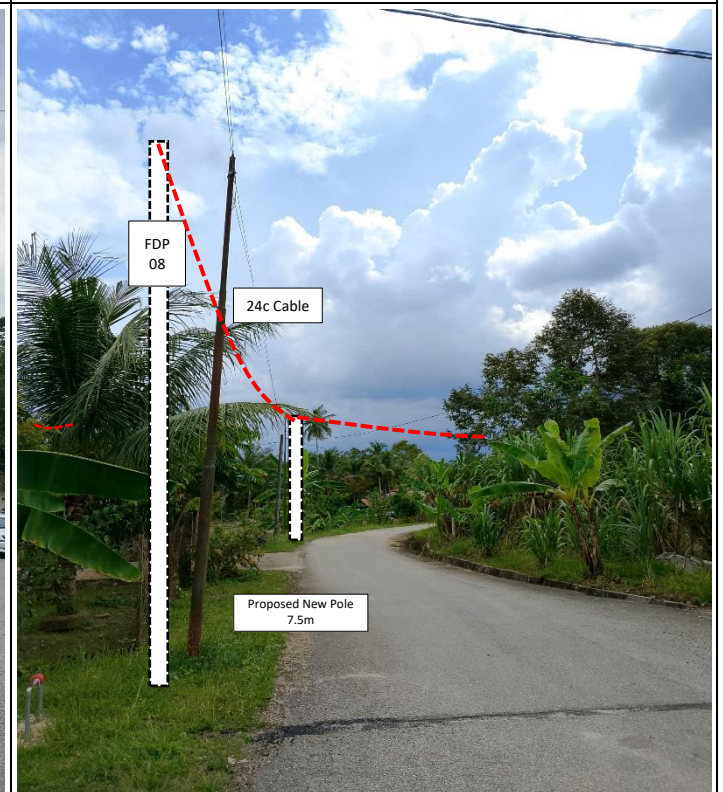
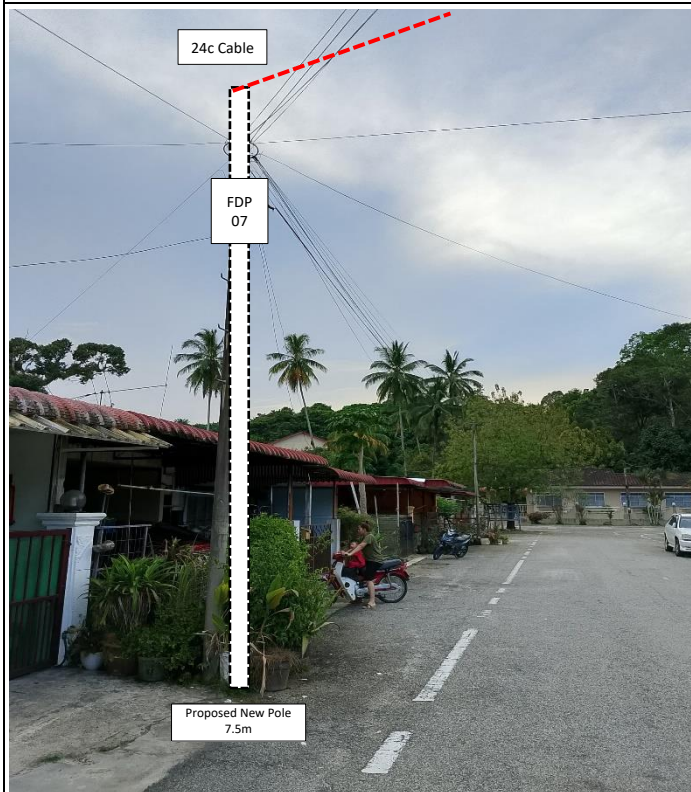
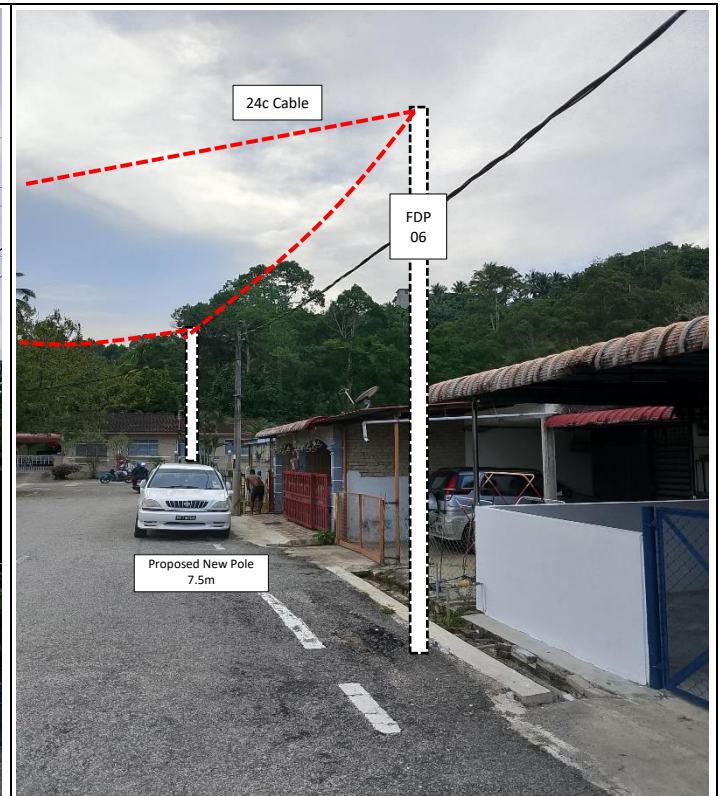
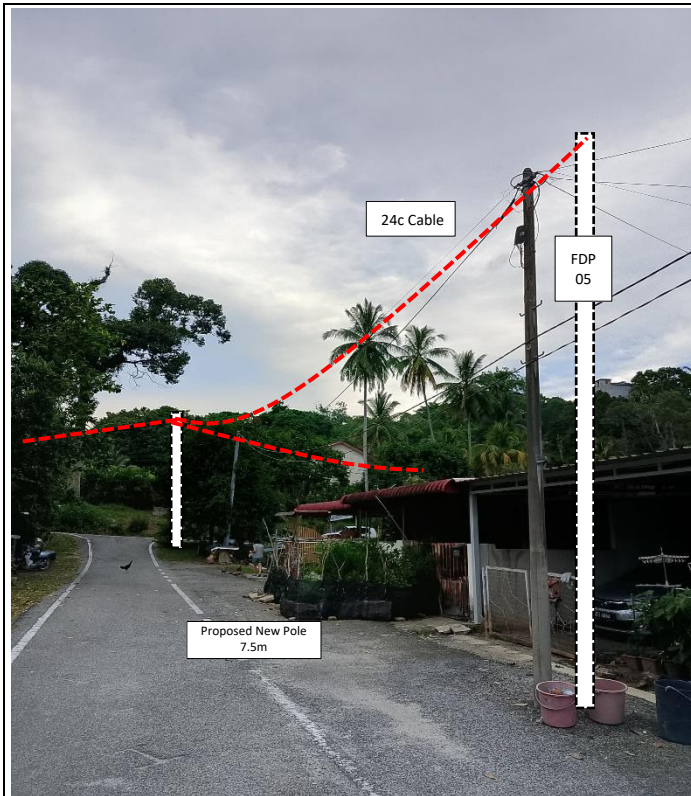


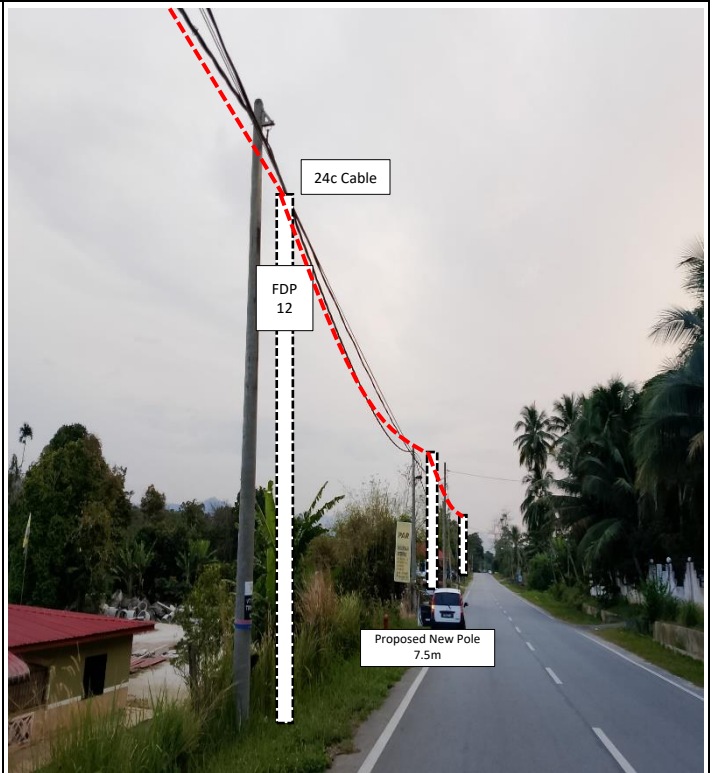
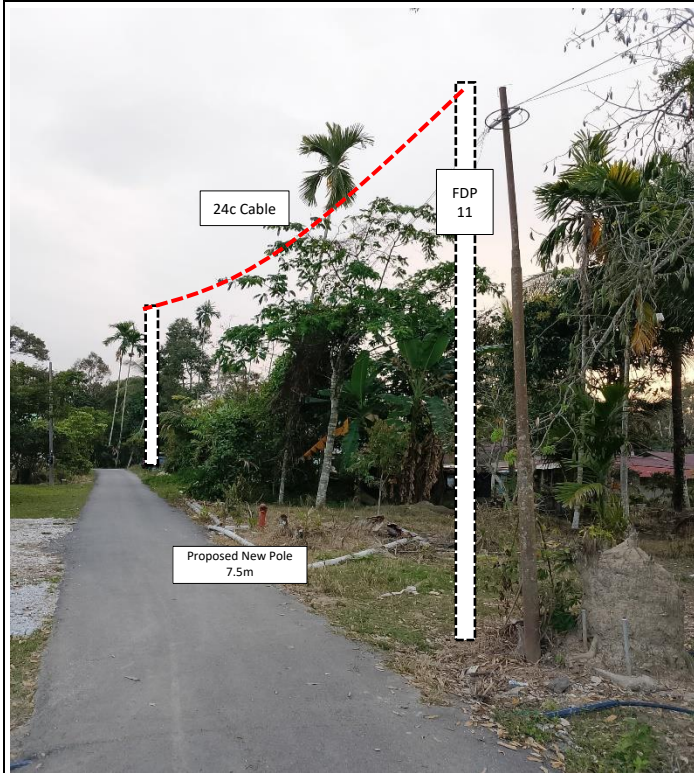
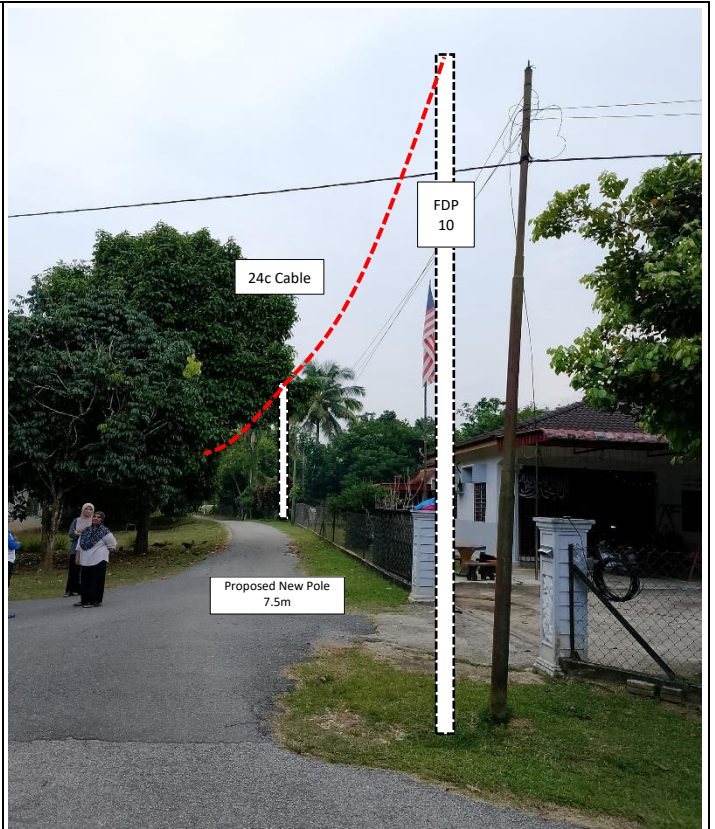
WABTECH SDN BHD  
 (13948173)

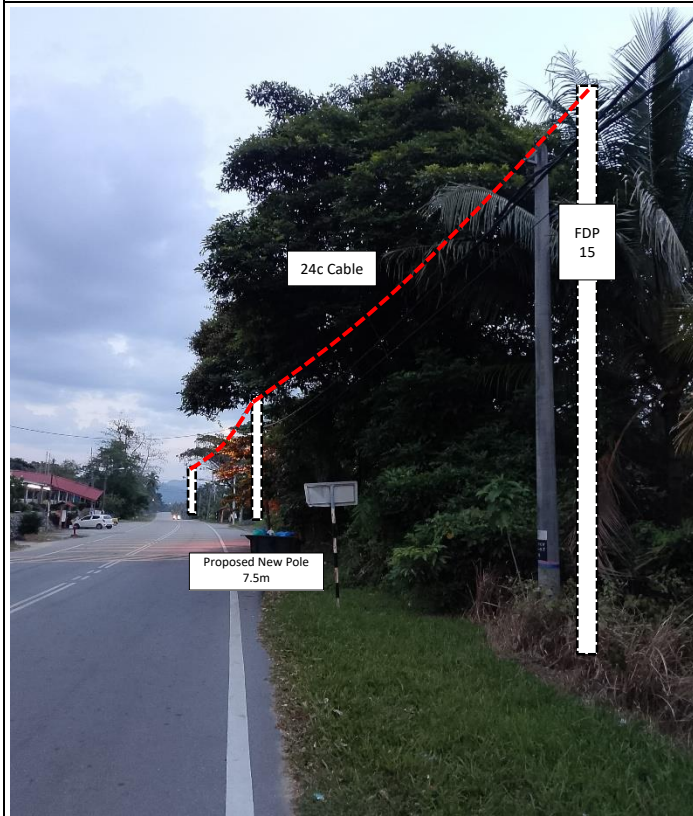
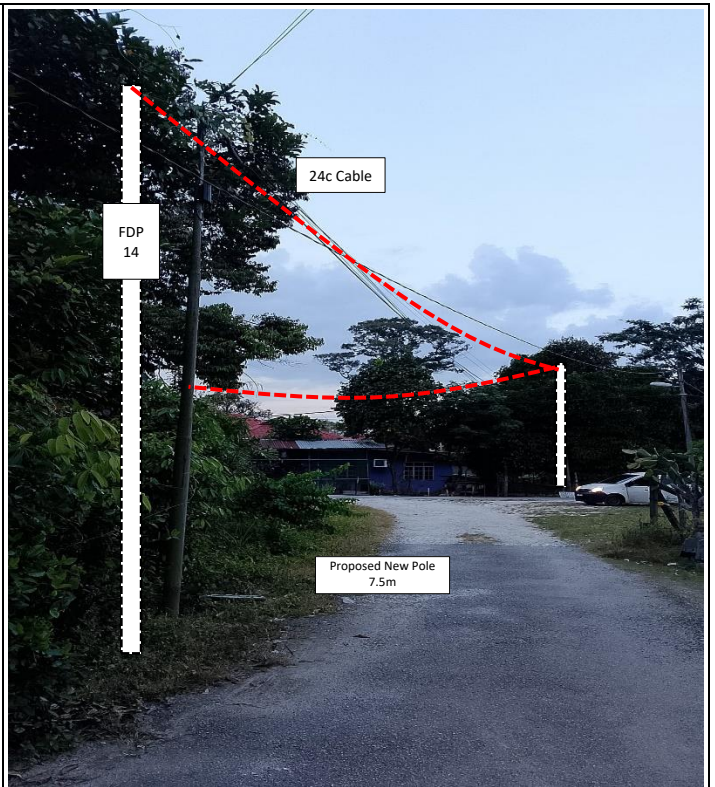
|     |      |    |          |            |                              |
|-----|------|----|----------|------------|------------------------------|
| 83  | T082 | 38 | 5.692153 | 100.991537 | JKR                          |
| 84  | T083 | 32 | 5.691882 | 100.991426 | JKR                          |
| 85  | T084 | 40 | 5.691589 | 100.991305 | JKR                          |
| 86  | T085 | 38 | 5.691254 | 100.991168 | JKR                          |
| 87  | T086 | 28 | 5.691053 | 100.991442 | Majlis Daerah Pengkalan Hulu |
| 88  | T087 | 35 | 5.690908 | 100.991653 | Majlis Daerah Pengkalan Hulu |
| 89  | T088 | 34 | 5.690733 | 100.991931 | Majlis Daerah Pengkalan Hulu |
| 90  | T089 | 36 | 5.690561 | 100.992190 | Majlis Daerah Pengkalan Hulu |
| 91  | T090 | 34 | 5.690444 | 100.992484 | Majlis Daerah Pengkalan Hulu |
| 92  | T091 | 33 | 5.690312 | 100.992758 | Majlis Daerah Pengkalan Hulu |
| 93  | T092 | 33 | 5.690108 | 100.992983 | Majlis Daerah Pengkalan Hulu |
| 94  | T093 | 38 | 5.689971 | 100.993296 | Majlis Daerah Pengkalan Hulu |
| 95  | T094 | 29 | 5.689772 | 100.993123 | Majlis Daerah Pengkalan Hulu |
| 96  | T095 | 28 | 5.691013 | 100.991078 | JKR                          |
| 97  | T096 | 28 | 5.690772 | 100.990986 | JKR                          |
| 98  | T097 | 30 | 5.690512 | 100.990889 | JKR                          |
| 99  | T098 | 35 | 5.690222 | 100.990761 | JKR                          |
| 100 | T099 | 37 | 5.689926 | 100.990600 | JKR                          |
| 101 | MH1  | 70 | 5.700416 | 100.993388 | JKR                          |
| 102 | MH2  | 70 | 5.699789 | 100.993409 | JKR                          |

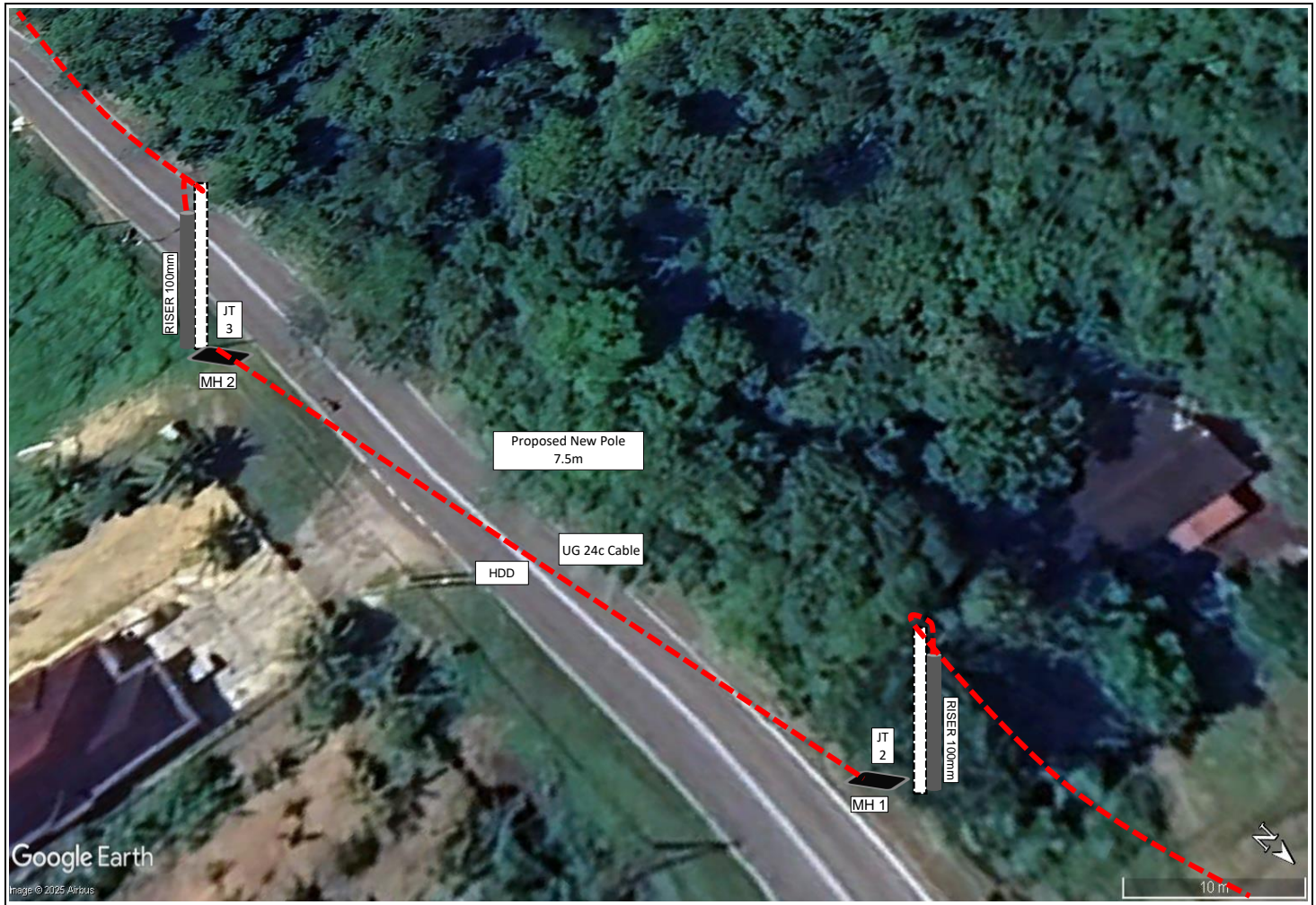
**5.0 SITE PHOTOS - PROPOSED NEW POLE**













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



WABTECH SDN BHD  
(1398287-X)

## 6.0 3<sup>rd</sup> PARTIES DEPENDENCIES

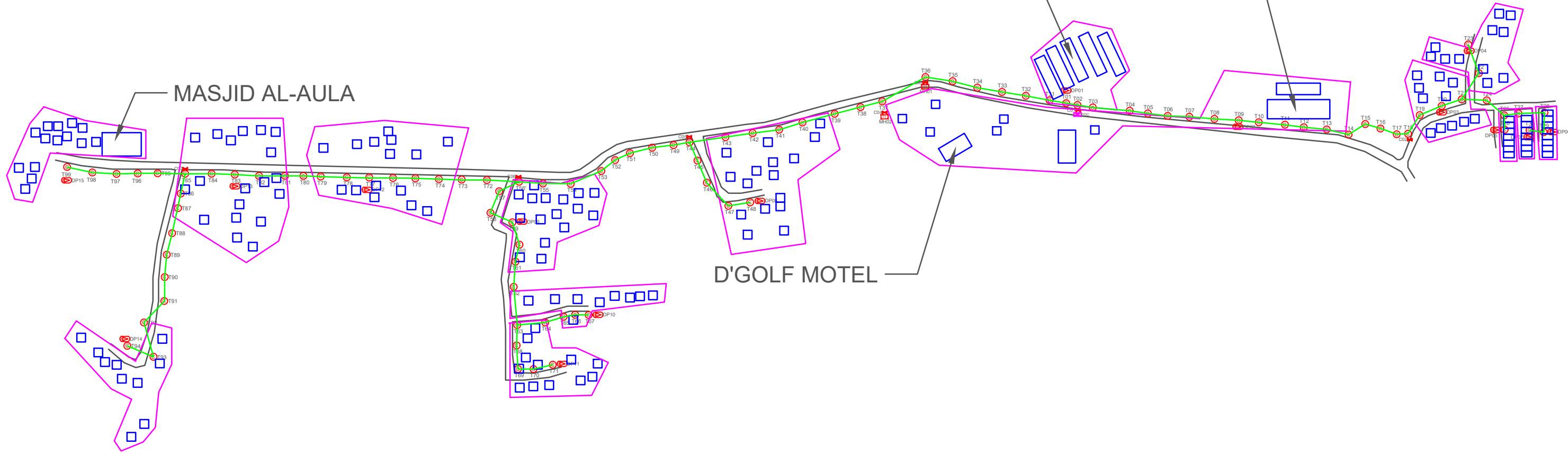
| NO | LOCAL COUNCIL / AUTHORITY    | REMARK |
|----|------------------------------|--------|
| 1  | Majlis Daerah Pengkalan Hulu | 1273   |
| 2  | JKR Daerah Pengkalan Hulu    | 1895   |

KLINIK KESIHATAN PENGKALAN HULU

AEE7033 SMK TUN SABAN

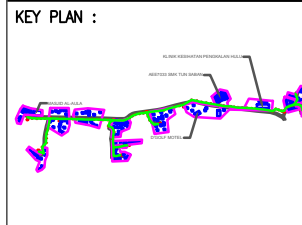
MASJID AL-AULA

D'GOLF MOTEL



TOTAL HOME PASSES: 120 UNITS

| LEGEND |          |  |                               |  |                     |  |                   |  |                             |  |                       |
|--------|----------|--|-------------------------------|--|---------------------|--|-------------------|--|-----------------------------|--|-----------------------|
|        | 12C FOC  |  | Installed 1:4 splitter in FDC |  | Installed Pole (9m) |  | New Manhole(JRC7) |  | Tension Small / Tension Big |  | MH NO.                |
|        | 24C FOC  |  | FDP with (1:8) splitter       |  | Installed Riser     |  | House Number      |  | Existing Manhole            |  | Existing TNB Pole NO. |
|        | 48C FOC  |  | Closure                       |  | Suspension Big      |  | Existing TNB Pole |  | Closure NO.                 |  | New Pole NO.          |
|        | 96C FOC  |  | New Manhole (PT)              |  | Suspension Small    |  | LOOP              |  | FDP NO.                     |  | SEE A-A in this page  |
|        | 144C FOC |  | Installed Pole (7.5M)         |  | FDC                 |  | FDP Boundary      |  | FDC NO.                     |  | SEE SHEET XXXX        |



PROJECT OWNER :

KEMENTERIAN KOMUNIKASI

MAIN CONTRACTOR

PRIVASAT

SUB-CONTRACTOR :

WABTECH SDN BHD

PROJECT TITLE:

CONTRACT FOR THE PROVISION OF SUPPLY, INSTALLATION, AND COMMISSIONING OF FTTX NETWORK INFRASTRUCTURE - POP 2 PROJECT D-SIDE - AEE 7033 - SMK TUN SABAN

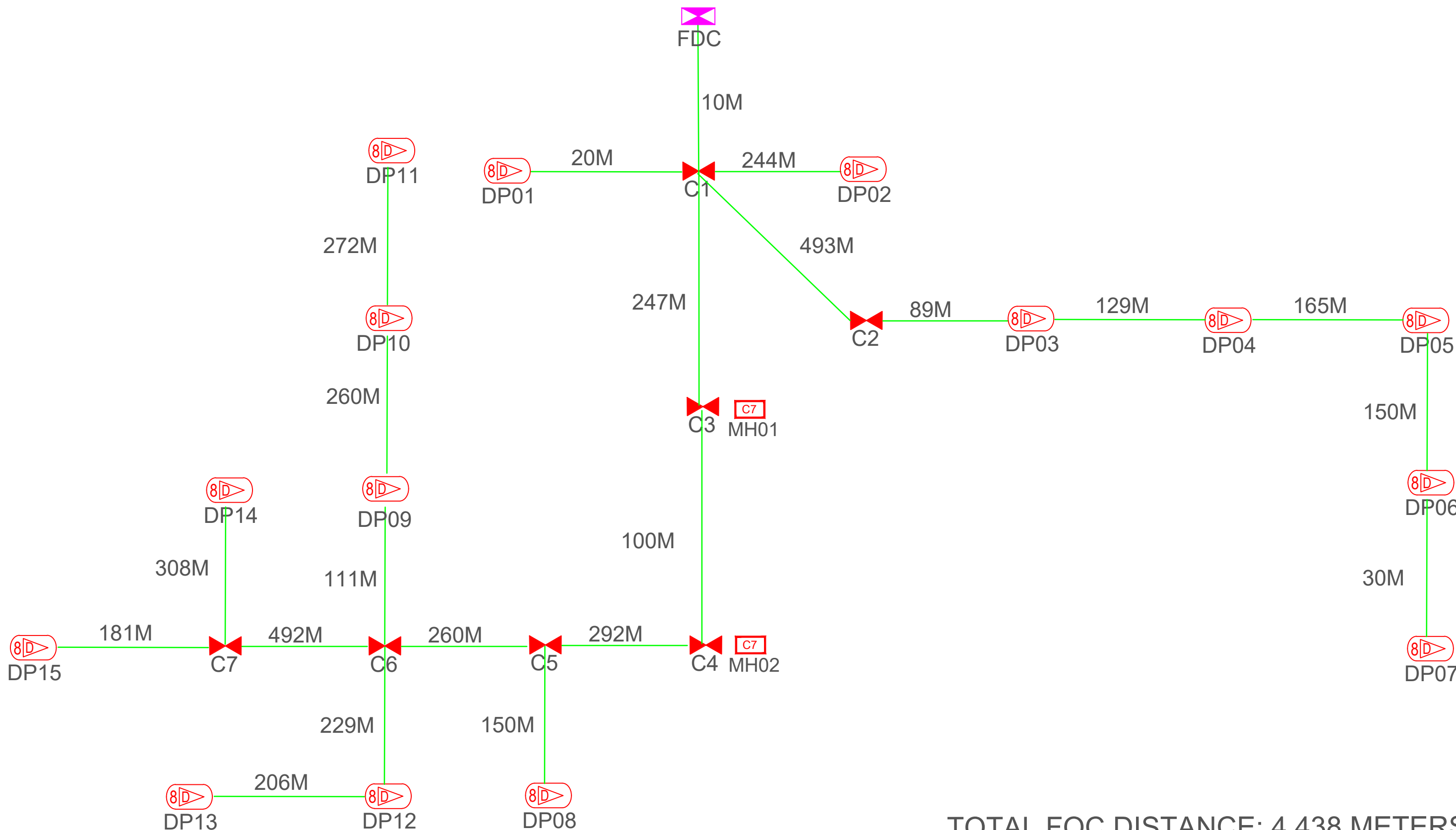
DRAWING TITLE:

AEE7033 SMK TUN SABAN

PROJECT PHASE:

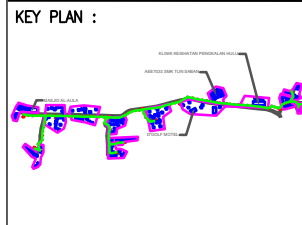
PROJECT PHASE

|   |              |            |            |
|---|--------------|------------|------------|
| Design By                                     | ENGINEER     | Date       | DATE       |
| Drawn By                                      | CAD ENGINEER | Scale      | NTS        |
| Checked By                                    | ENGINEER     | Job Number | JOB/NUMBER |
| DRAWING NUMBER :                              |              | Sheet :    |            |
| DRAWING/NUMBER                                |              | 1/1        |            |
| THIS PRINT AND ITS COPYRIGHT ARE THE PROPERTY |              |            |            |
| Size : A3                                     |              |            |            |



**TOTAL FOC DISTANCE: 4,438 METERS**

| LEGEND |          |                               |  |                     |   |                   |  |                             |                              |                       |
|--------|----------|-------------------------------|--|---------------------|---|-------------------|--|-----------------------------|------------------------------|-----------------------|
|        | 12C FOC  | Installed 1:4 splitter in FDC |  | Installed Pole (9m) |   | New Manhole(JRC7) |  | Tension Small / Tension Big |                              | MH NO.                |
|        | 24C FOC  | FDP with (1:8) splitter       |  | Installed Riser     | # | House Number      |  | Existing Manhole            | TKS-1                        | Existing TNB Pole NO. |
|        | 48C FOC  | Closure                       |  | Suspension Big      |   | Existing TNB Pole |  | Closure NO.                 | P001                         | New Pole NO.          |
|        | 96C FOC  | New Manhole (PT)              |  | Suspension Small    |   | LOOP              |  | FDP NO.                     | (A) SEE A-A in this page (A) |                       |
|        | 144C FOC | Installed Pole (7.5M)         |  | FDC                 |   | FDP Boundary      |  | FDC NO.                     | (A) SEE SHEET XXXX (A)       |                       |



PROJECT OWNER :

MAIN CONTRACTOR

PRIVASAT

SUB-CONTRACTOR :

PROJECT TITLE:

CONTRACT FOR THE PROVISION OF SUPPLY, INSTALLATION, AND COMMISSIONING OF FTTX NETWORK INFRASTRUCTURE - POP 2 PROJECT D-SIDE - AEE7033 - SMK TUN SABAN

DRAWING TITLE:

**AEE7033 SMK TUN SABAN**

PROJECT PHASE:

**PROJECT PHASE**

|   |              |            |            |
|---|--------------|------------|------------|
| Design By                                     | ENGINEER     | Date       | DATE       |
| Drawn By                                      | CAD ENGINEER | Scale      | NTS        |
| Checked By                                    | ENGINEER     | Job Number | JOB/NUMBER |
| DRAWING NUMBER :                              |              | Sheet :    |            |
| <b>DRAWING/NUMBER</b>                         |              | <b>1/1</b> |            |
| THIS PRINT AND ITS COPYRIGHT ARE THE PROPERTY |              |            |            |
| Size : <b>A3</b>                              |              |            |            |