

# TECHNICAL PROPOSAL



## TIMUR – BARAT HIGHWAY, 333000 GERIK, PERAK ( JAMBATAN BARAT TASIK TEMENGGOR)

### START POINT

LAT : 5.551475  
LONG : 101.356251

### END POINT

LAT : 5.538676  
LONG : 101.329563

## CIVIL INFRASTRUCTURE AND TNB FIBER CABLING SYSTEM

**PROJECT NAME** : RELOCATION OF TNB FIBER CABLE FROM TOWER TO NEW BACKUP UNDERGROUND ROUTE

**SITE / LINK** : TMGY-PGAU

**REGION** : NORTHERN

**STATE** : PERAK

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- Section 2 : Proposed Manhole Coordinates
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## Section 1 : OSP Summary

| Item | Description Activity   | Quantity     | UOM                |
|------|--|--------------|--------------------|
|      | <b>Overall OSP Proposed Civil Infra. Design Distance</b>                               | <b>6,735</b> | <b>Meters</b>      |
| 1    | Hill Trenching<br>1 - ways HDPE 40mm   | 2,500        | Meters             |
| 2    | Open – Trenching<br>1 - ways HDPE 40mm   | 2,685        | Meters             |
| 3    | Install 40mm HDPE in existing Bridge trenching<br>1 - Ways corrugated armoured conduit | 1,550        | Meters             |
| 4    | Install cable on poles<br>(Long Span)  | -            | Meters             |
| 5    | Supply & Install GI 50MM<br>For Drain crossing   | -            | Meters             |
| 6    | Supply & Install Manhole - Type JRC7   | 13           | Nos                |
| 7    | Supply & Install Manhole - Type JB30   | -            | Nos                |
| 8    | S&I Communication Cable Metal Trunking<br>- on Wall (min size: 50MM X 50MM)            | -            | Meters             |
| 9    | S&I 32MM PVC Sheathed Flexible Corrugated<br>and Armored Conduit                       | -            | Meters             |
| 10   | Road Milling, Road Pavement and Road Marking (ACW)                                     | 1,990        | Meter <sup>2</sup> |
|      |  |              |                    |
| A    | ISP Cable Length   | -            | Meters             |
| B    | Total Cable Length   | 7,000        | Meters             |
| C    | Cable Type   | 48           | Cores              |

## Section 1 : OSP Summary

### 3<sup>rd</sup> parties Dependencies

| Item              | Parties Involved   |
|-------------------|--|
| Local Authorities | <b>JKR NEGERI PERAK</b><br>- TIMUR – BARAT HWY<br><b>JABATAN PERHUTANAN NEGERI PERAK</b><br>- EXISTING TOWER<br><b>JABATAN PERHUTANAN NEGERI PERAK</b><br>-HUTAN BELUM |
| Building Owners   | <b>TNB TOWER</b><br>- TENAGA NASIONAL BERHAD   |

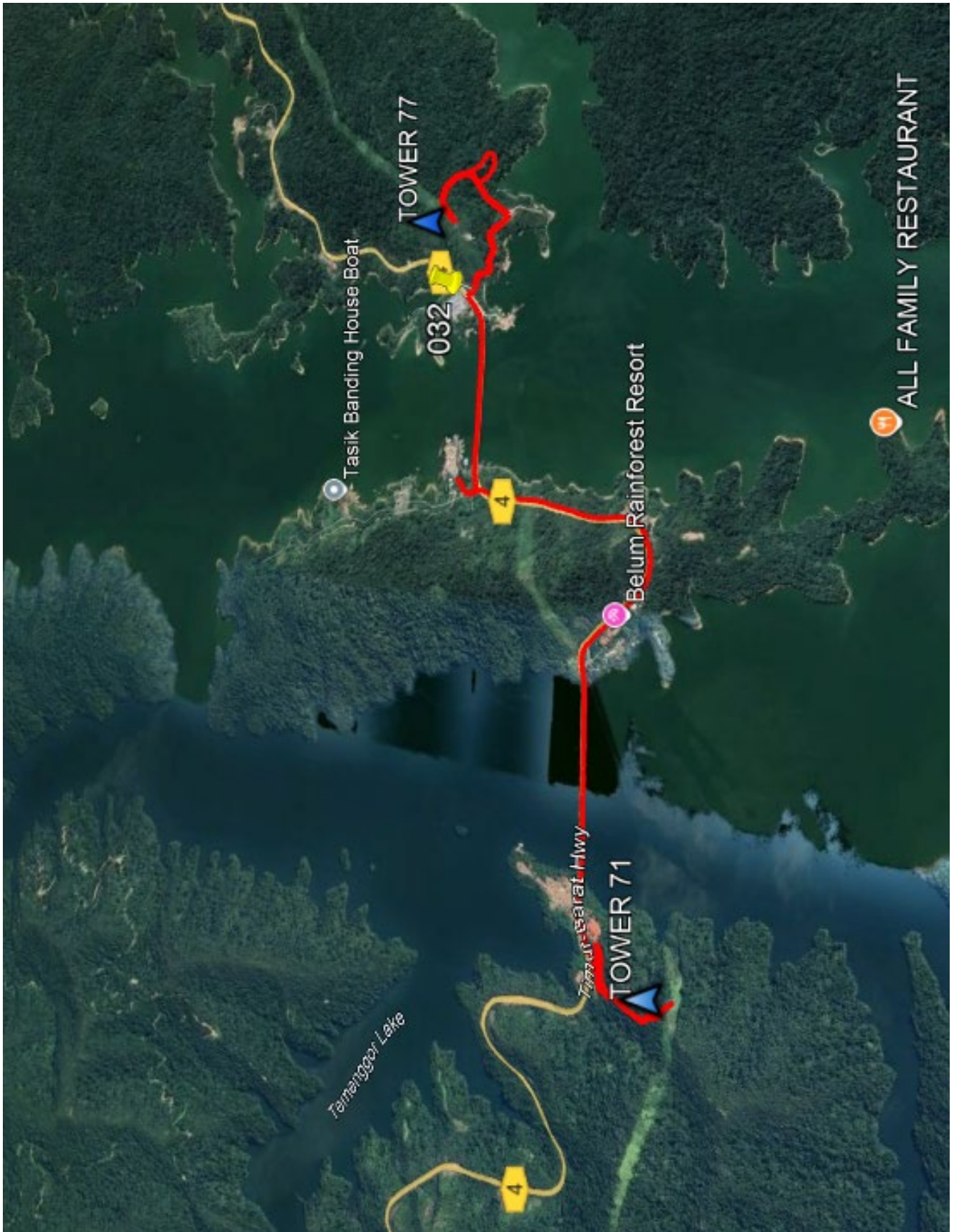
### Other Highlights/Remarks

|  |
|--|
|  |
|--|

## Section 2 : Proposed Manhole Coordinates

| Manhole No.       | Latitude | Longitude  |
|-------------------|----------|------------|
| <b>TOWER 77</b>   | 5.551475 | 101.356251 |
| <b>PROP MH 01</b> | 5.551086 | 101.353469 |
| <b>PROP MH 02</b> | 5.550430 | 101.352675 |
| <b>PROP MH 03</b> | 5.550329 | 101.347171 |
| <b>PROP MH 04</b> | 5.548478 | 101.345934 |
| <b>PROP MH 05</b> | 5.546923 | 101.345829 |
| <b>PROP MH 06</b> | 5.544613 | 101.345564 |
| <b>PROP MH 07</b> | 5.542553 | 101.345608 |
| <b>PROP MH 08</b> | 5.541808 | 101.343068 |
| <b>PROP MH 09</b> | 5.543999 | 101.341082 |
| <b>PROP MH 10</b> | 5.544427 | 101.339905 |
| <b>PROP MH 11</b> | 5.543947 | 101.332696 |
| <b>PROP MH 12</b> | 5.543109 | 101.329861 |
| <b>PROP MH 13</b> | 5.542665 | 101.330405 |
| <b>TOWER 71</b>   | 5.538676 | 101.329563 |

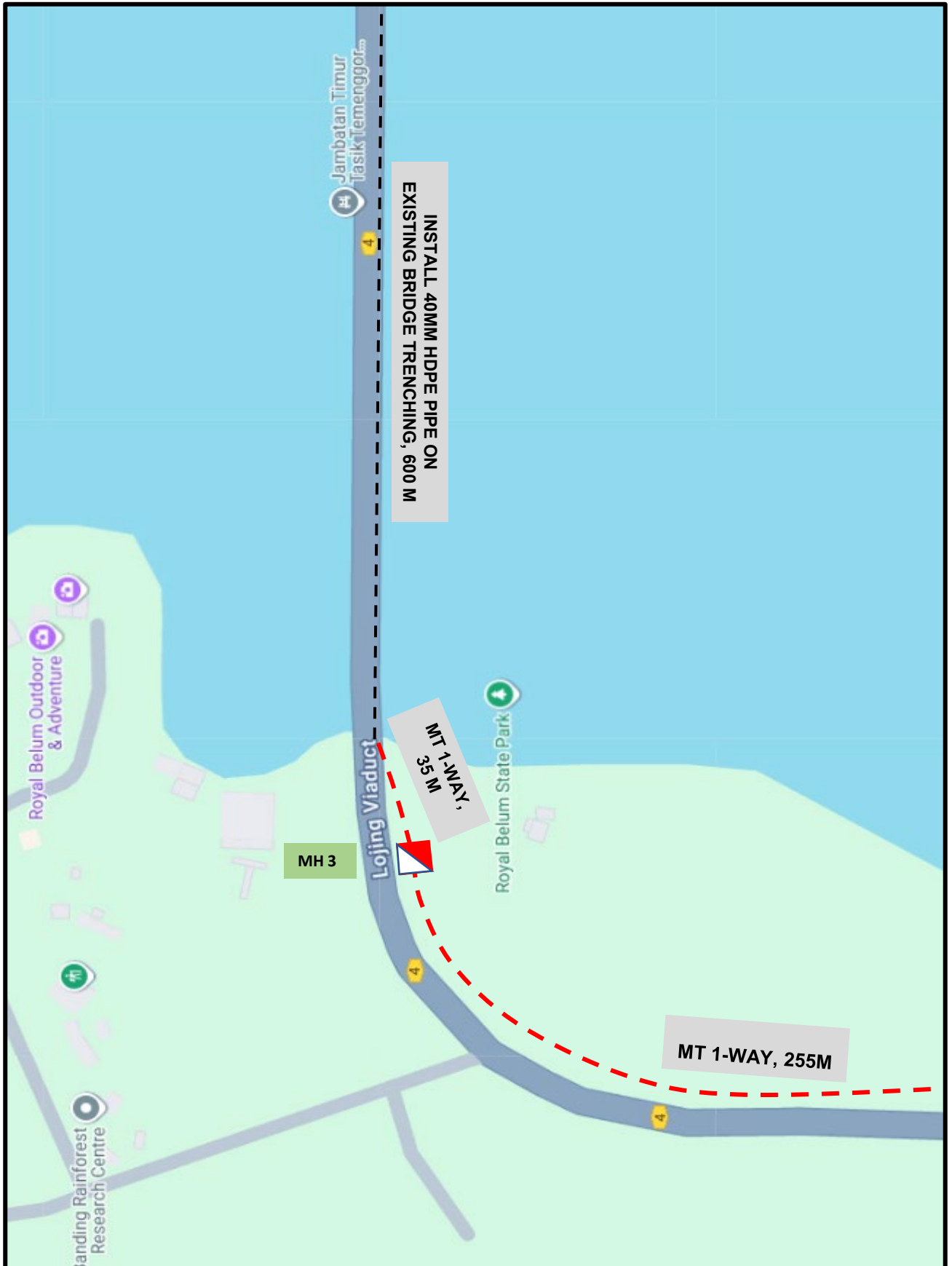
### Section 3 : Routing Plan



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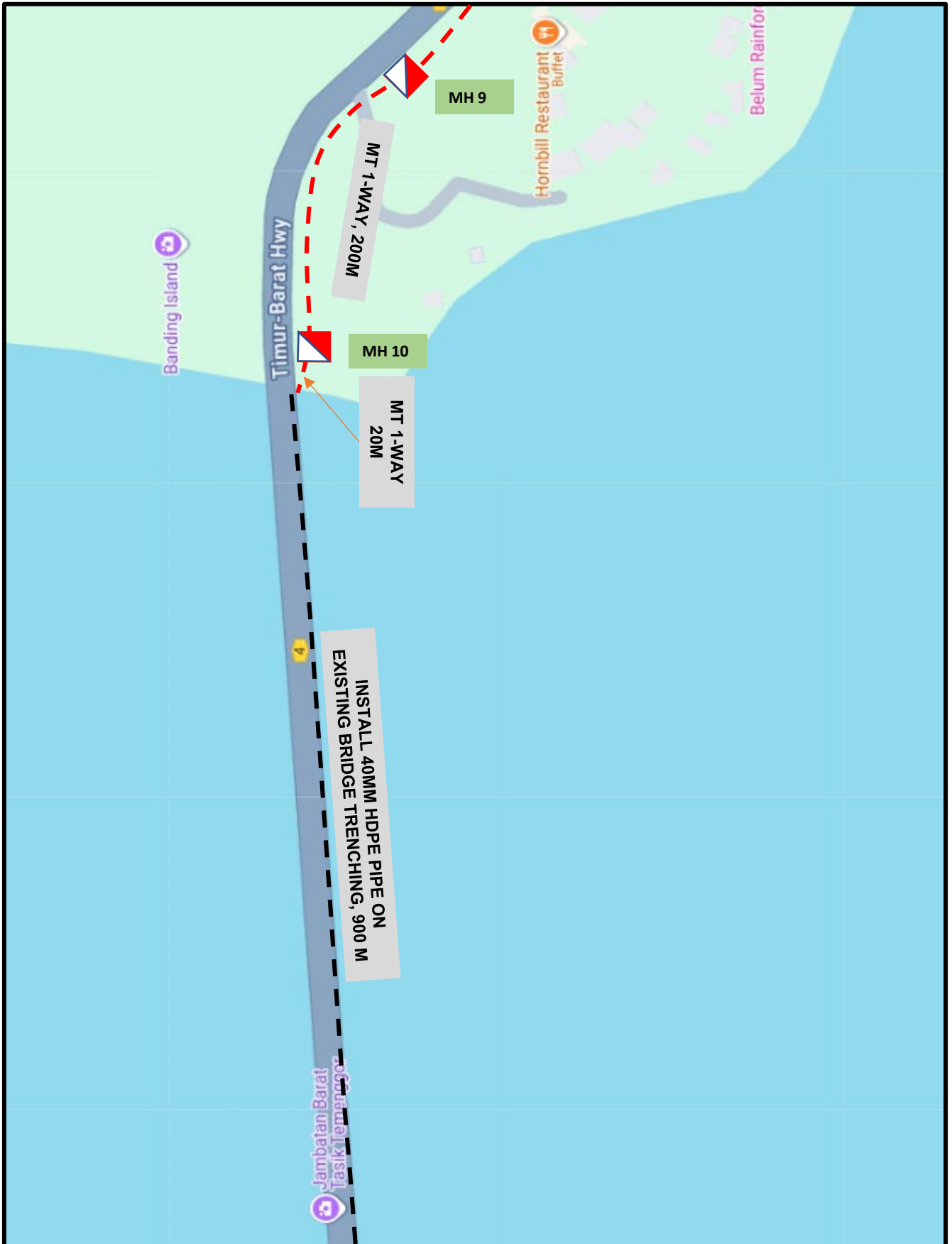
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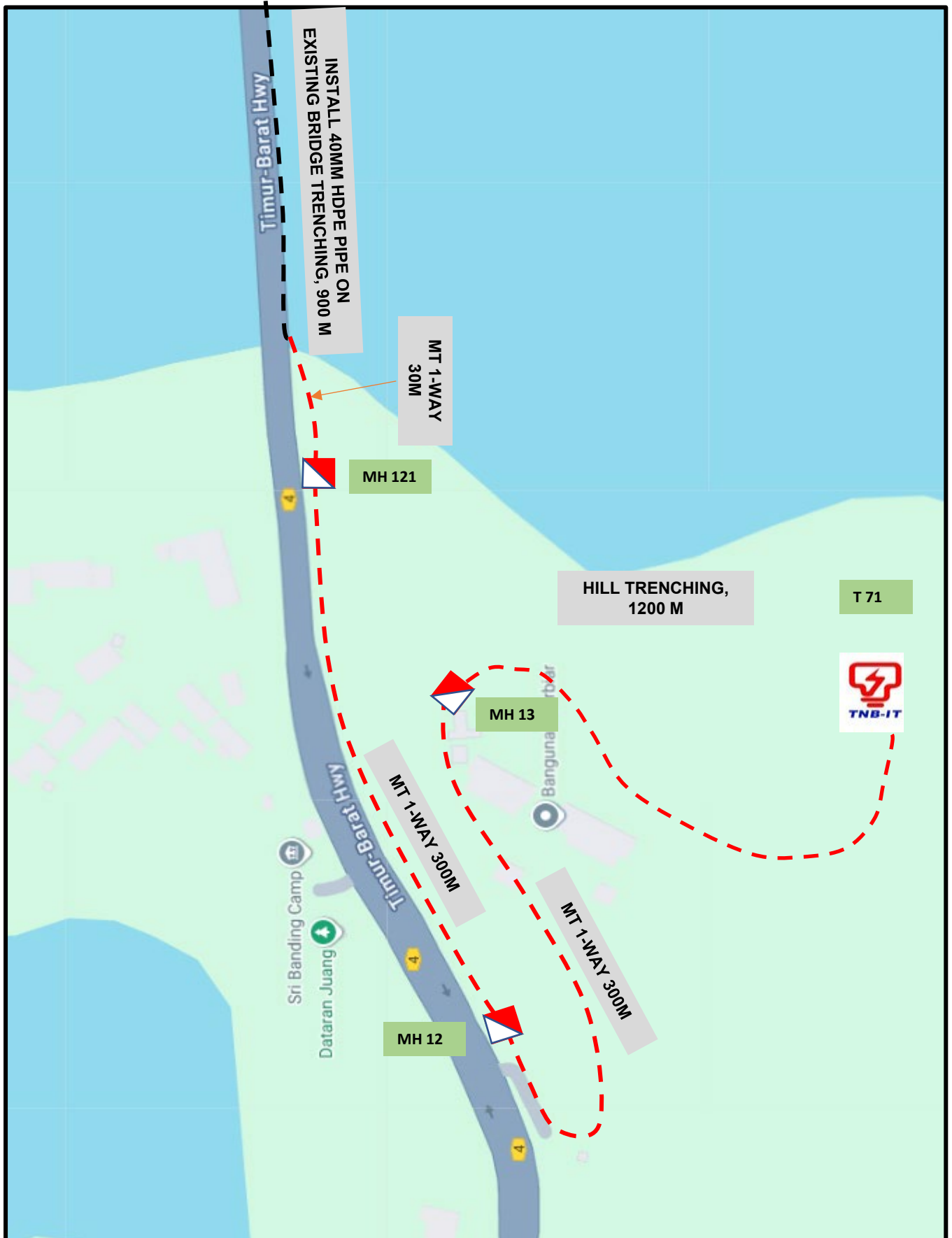
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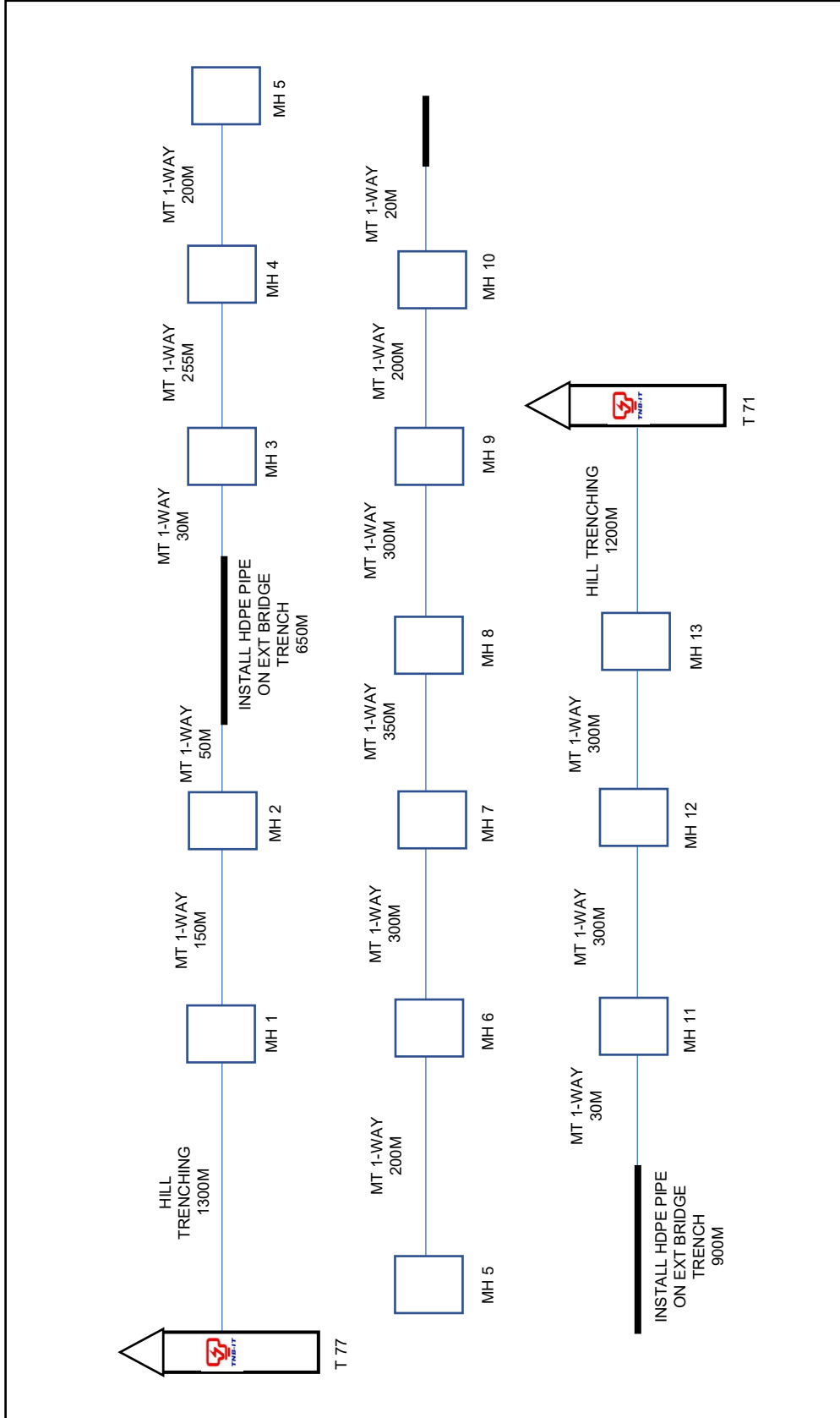


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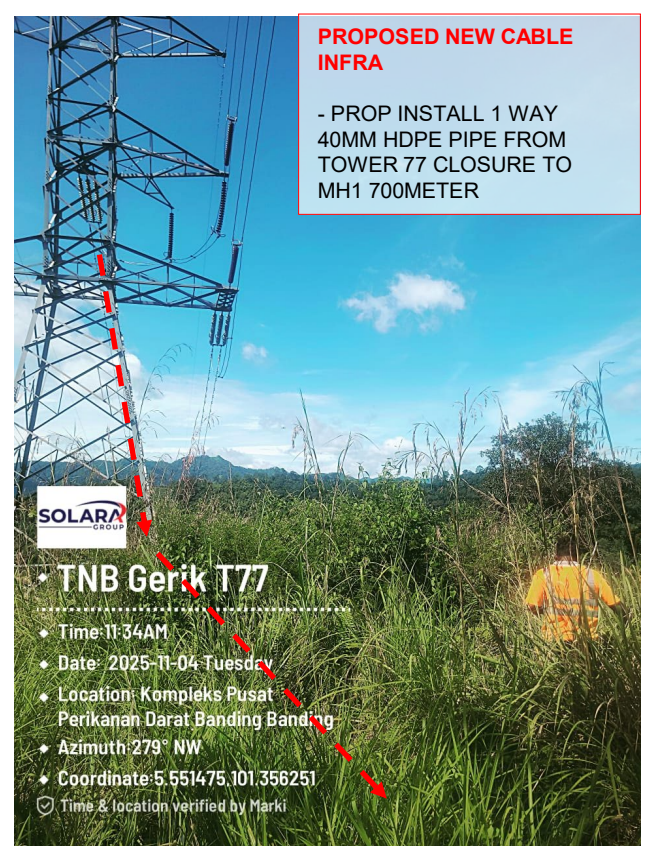
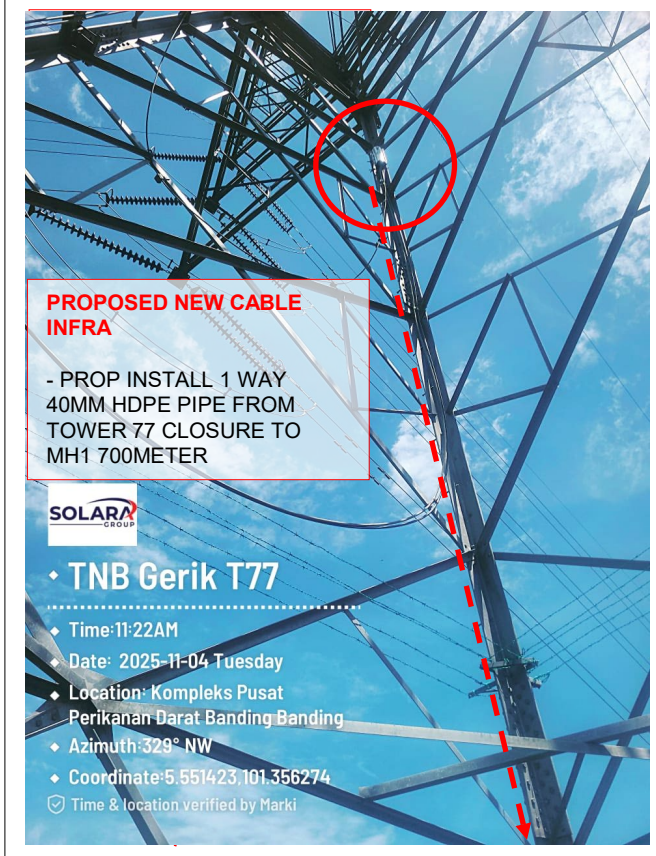
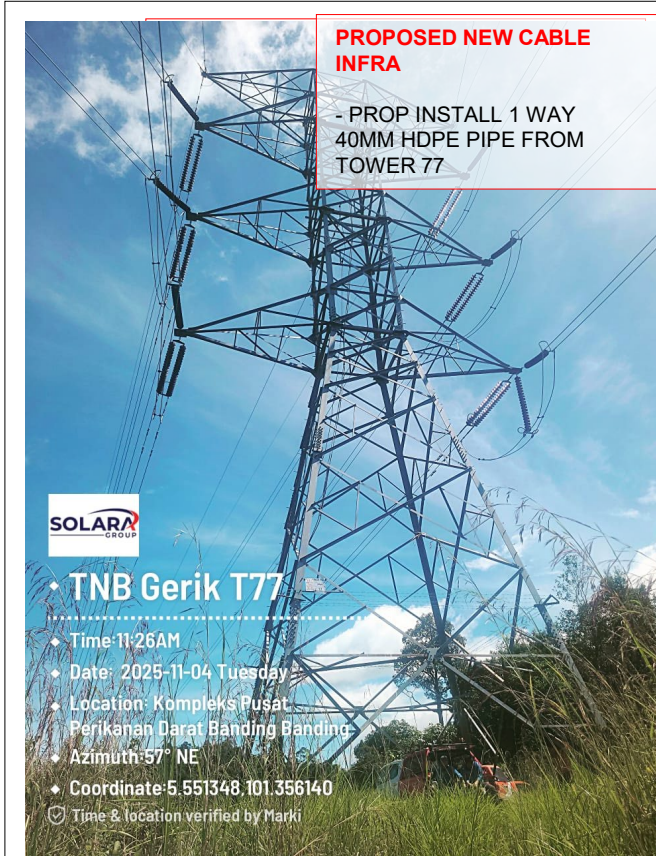
## Section 4 : Straight Line Drawing

### STRAIGHT LINE DIAGRAM (SLD) FOR RELOCATION TMGY-PGAU

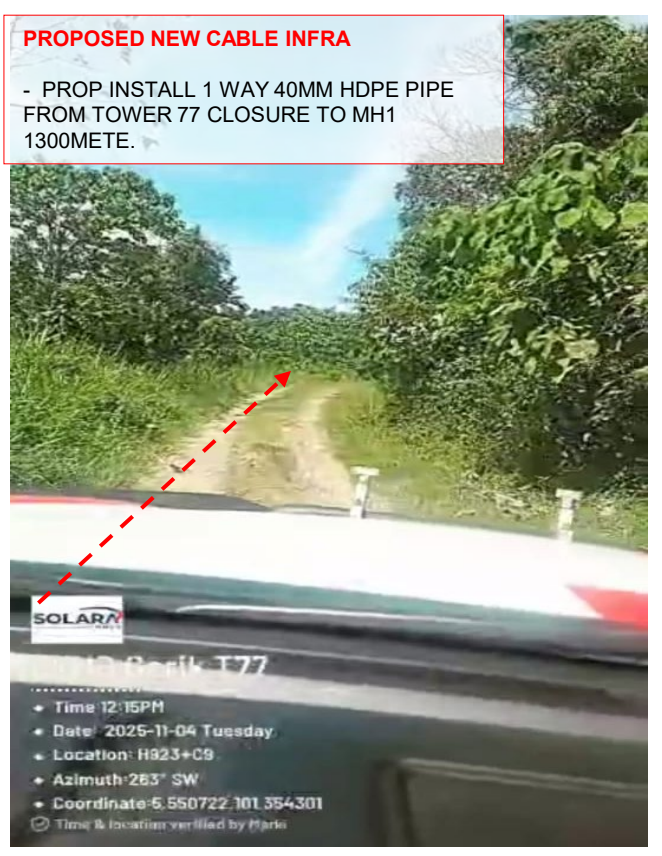
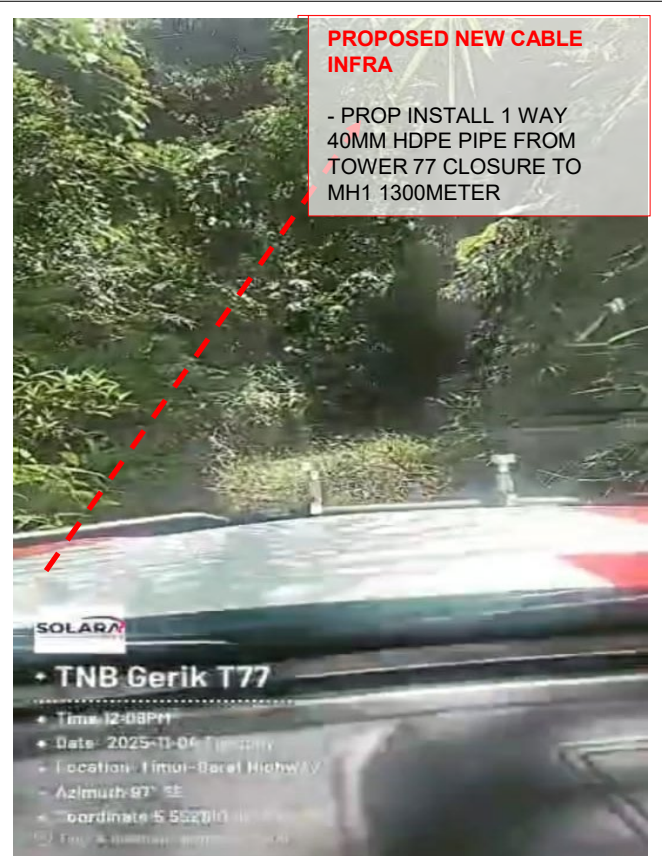
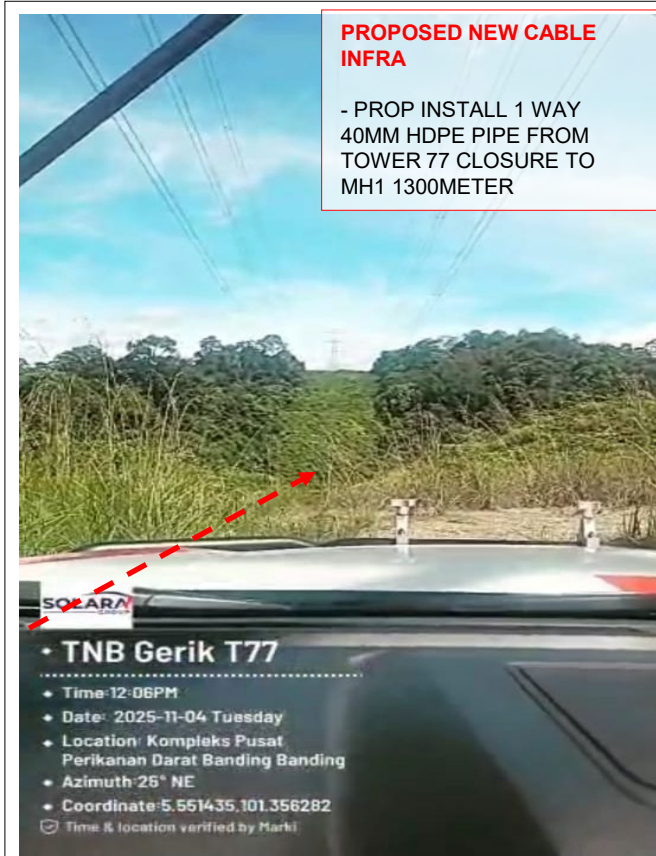


|   |                |  |  |                       |  |
|---|----------------|--|--|-----------------------|--|
| <b>Name Of Project :</b>  |                |  |  | <b>Revisions :</b> 01 | <b>MAIN CONTRACTOR:</b>  |
| <b>Project Reference :</b>  | Scale : NTS    |  |  | No. :                 | Jabatan Pembangunan<br>Infrastruktur & General ICT<br>Ibu Pejabat, No.129 Jln Bangsar<br>Peti Surat 11003<br>50732 Kuala Lumpur.<br>TEL: 03-2246 6334<br>FAX: 03-2240 0020 |
| <b>Equipment Reference :</b>  | Project Team : |  |  | Date:                 |  |
| <b>Drawn By :</b>   | Date Survey :  |  |  | Sign:                 |  |
| <b>Scope Of Work :</b> SUPPLY, INSTALL AND COMMISSIONING OF CABLE AND CIVIL INFRA |                |  |  | Check By:             |  |
|   |                |  |  | Owner:                | Page No: 1   |
|   |                |  |  | Drawing No:           |  |

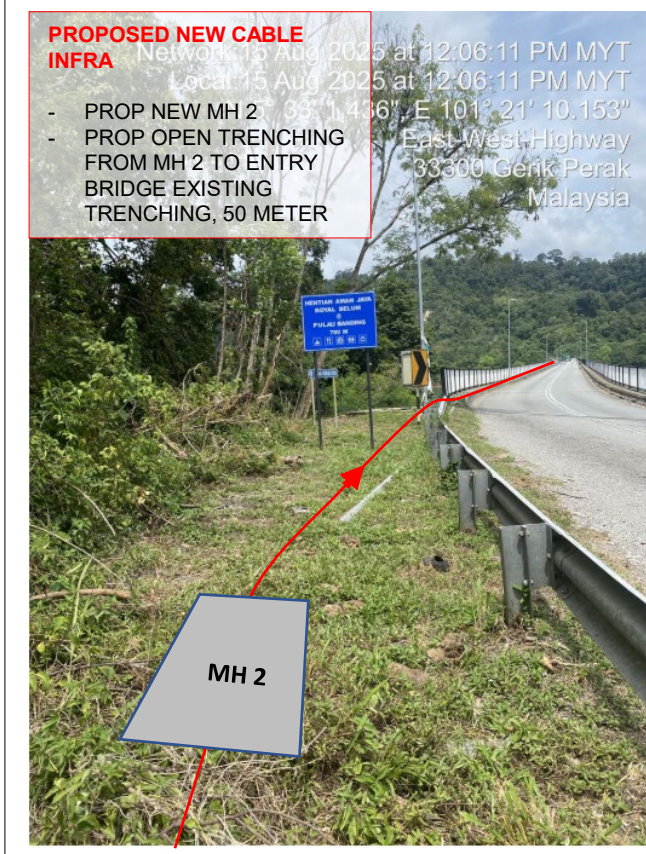
## Section 5: Outside Plant Site Snapshot (OSP)



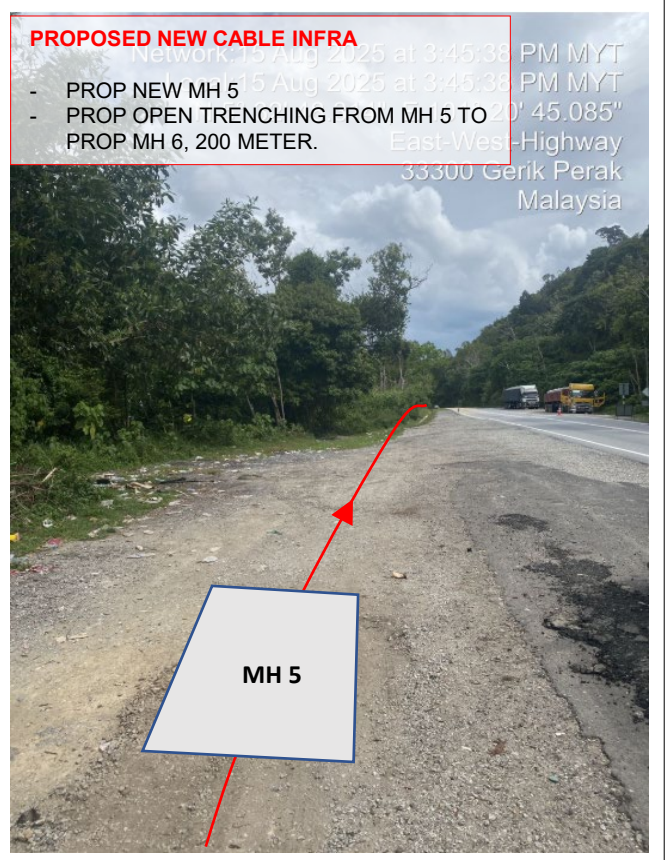
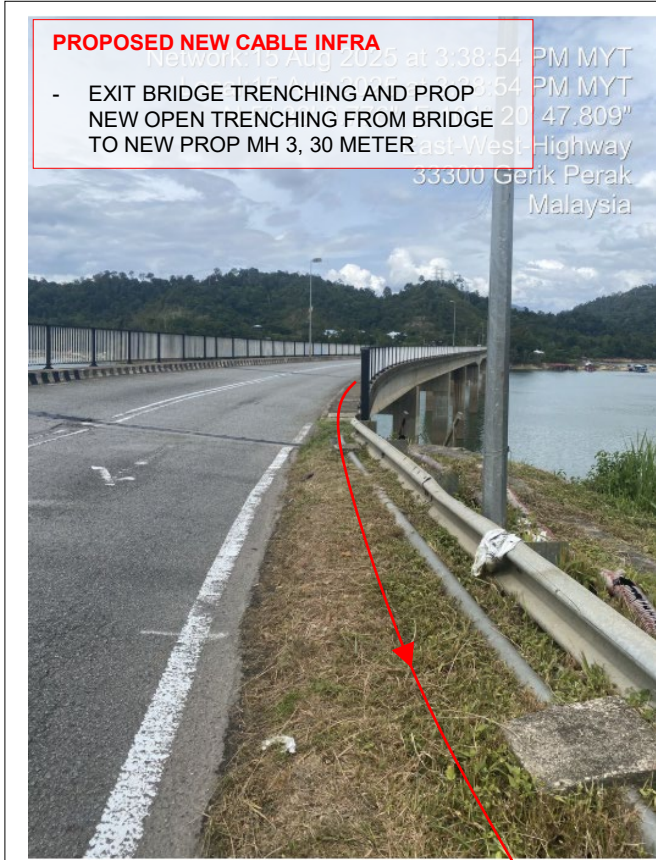
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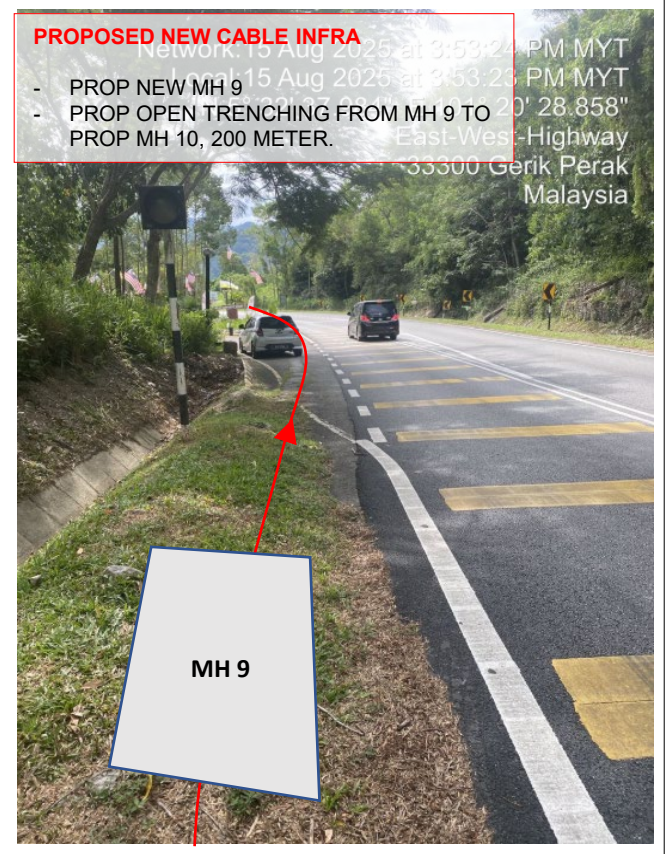
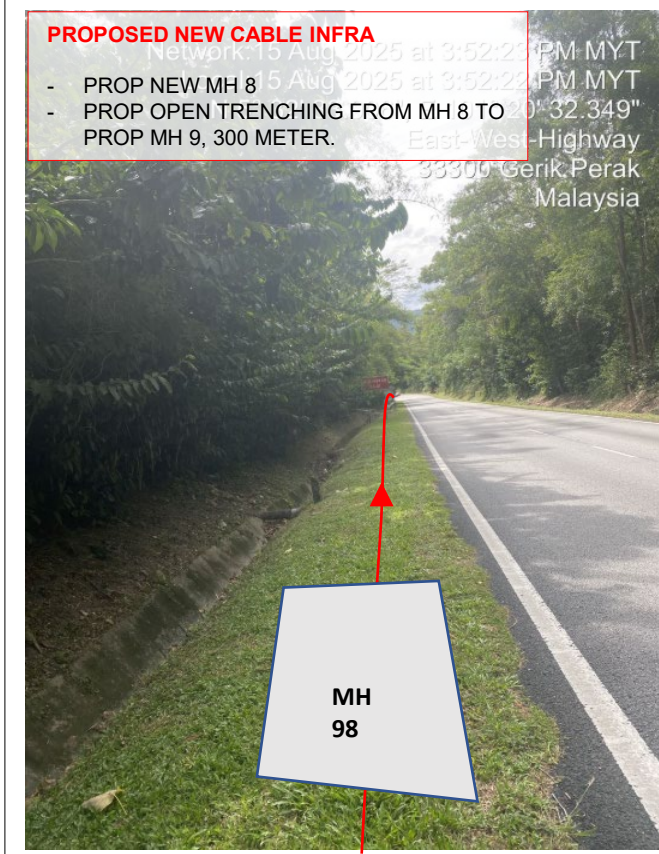
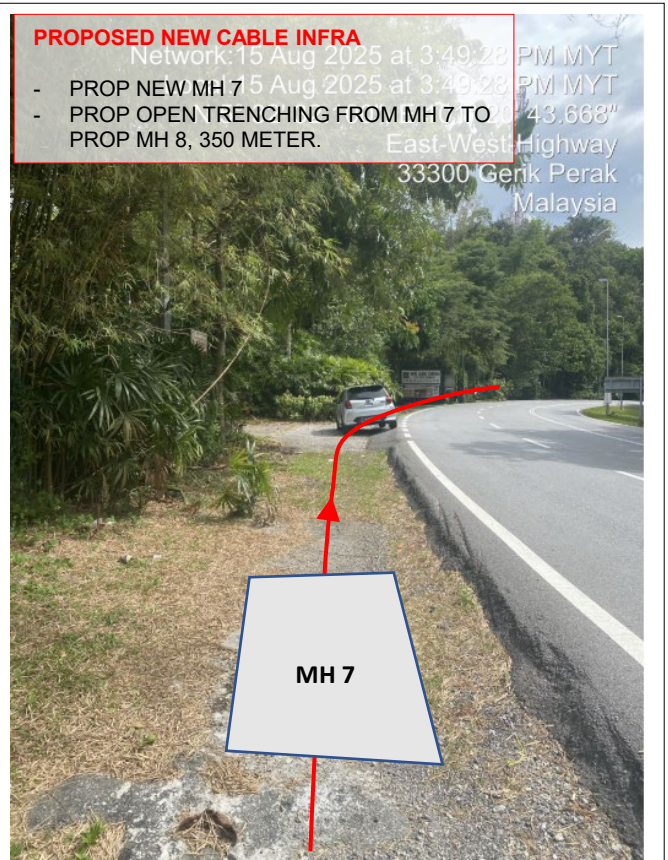
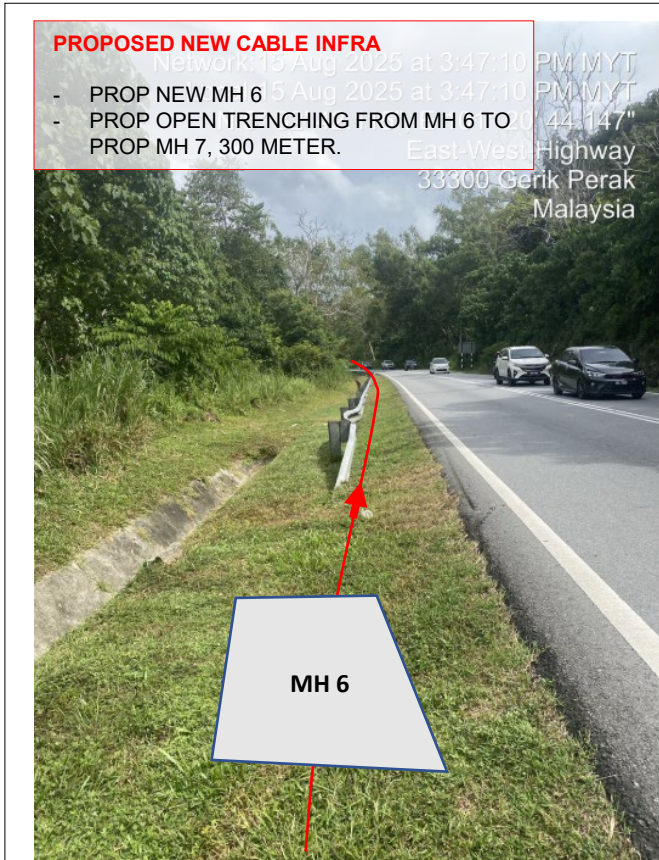
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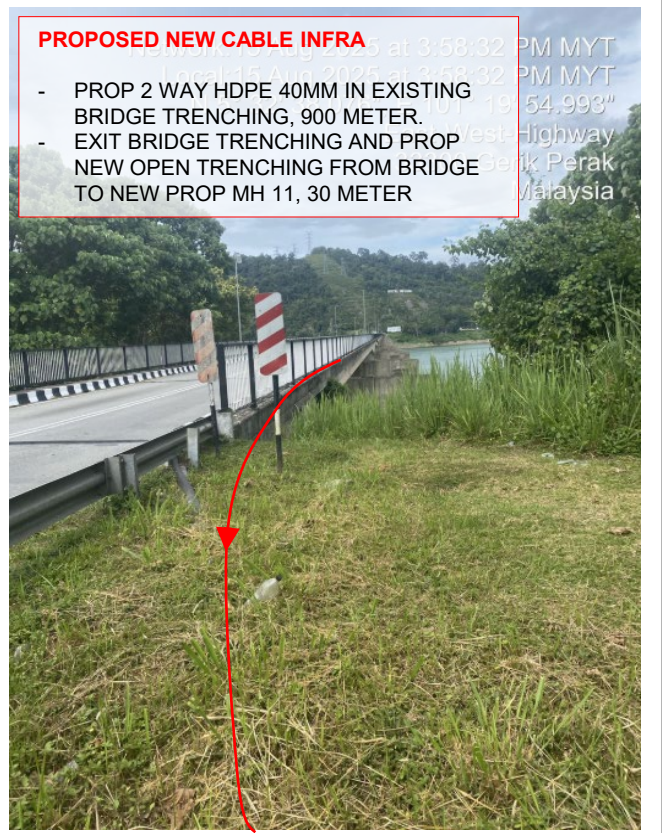
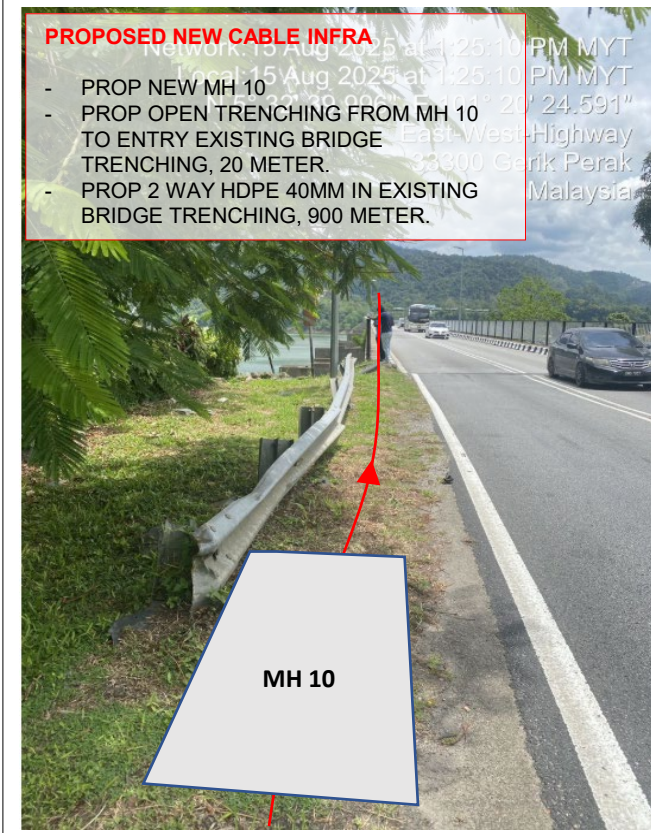
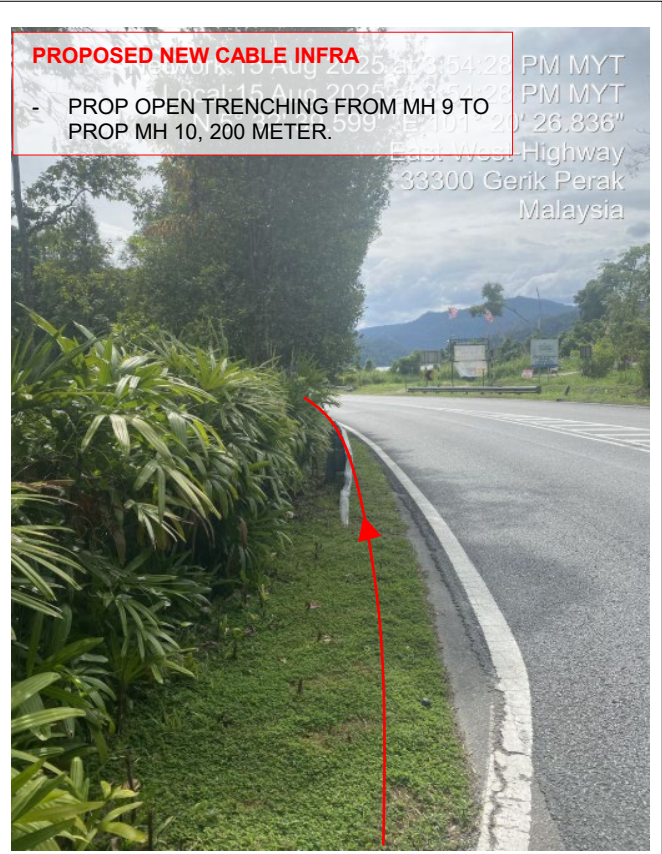
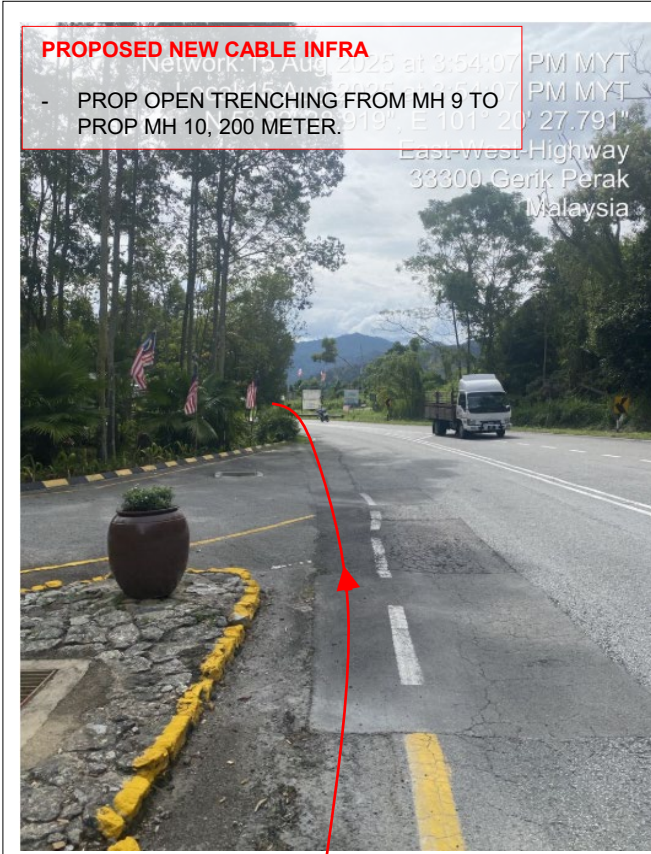
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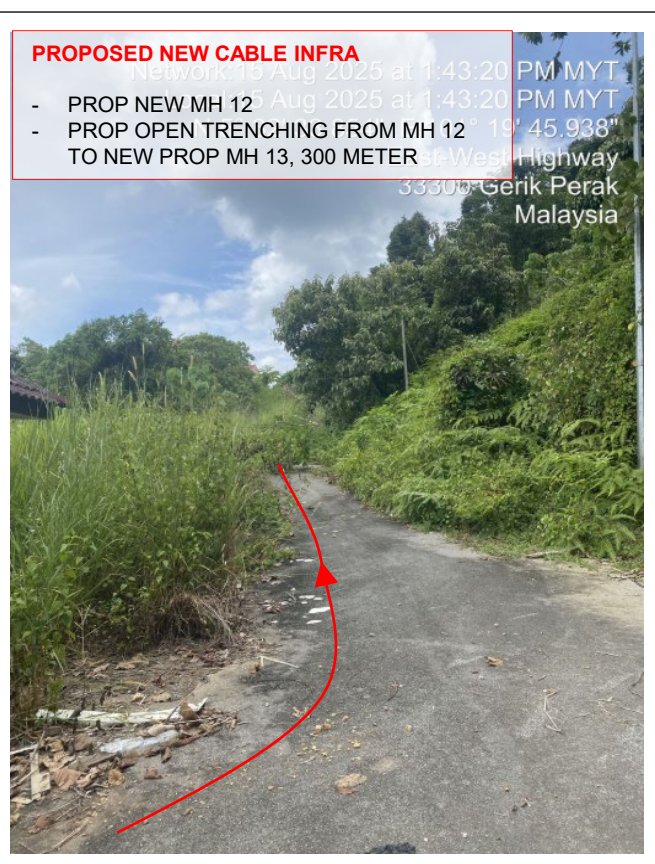
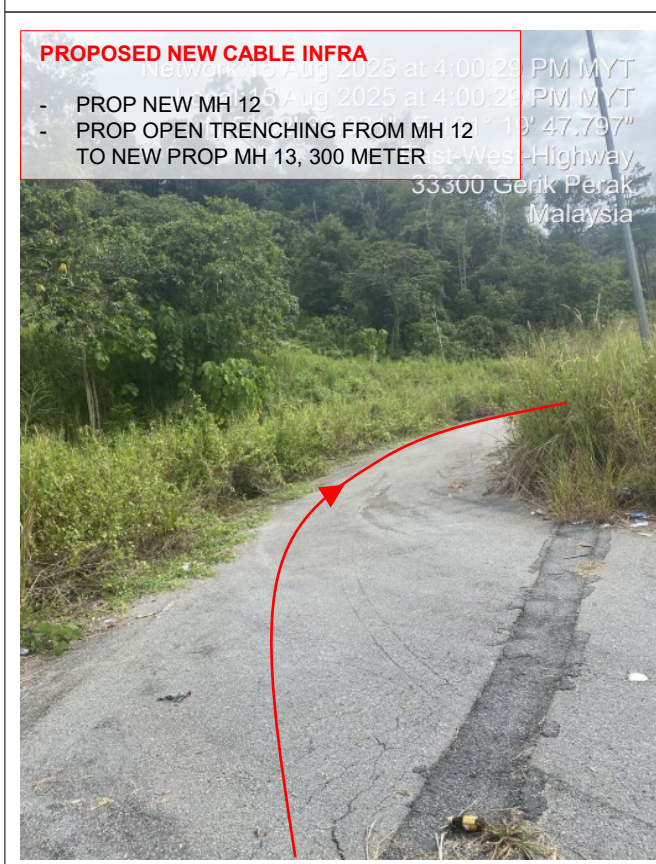
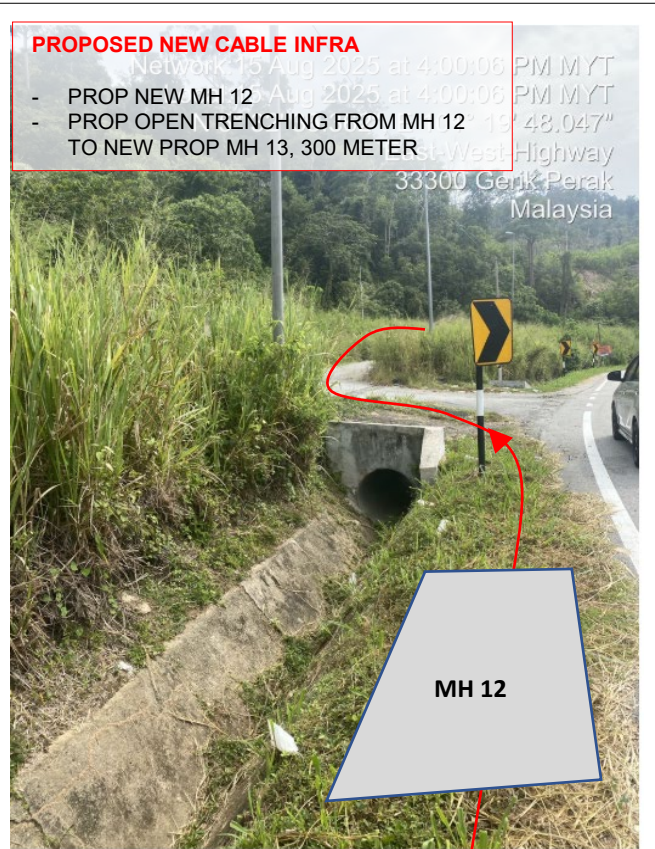
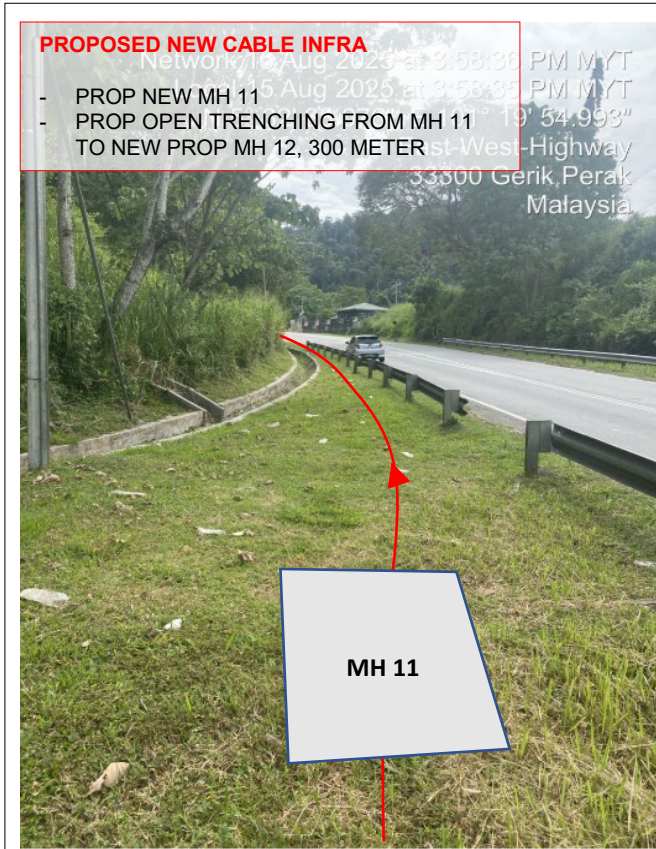
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### PROPOSED NEW CABLE INFRA

- PROP NEW MH 13
- PROP OPEN TRENCHING FROM MH 13 TO PROP TOWER 71. 1200 METER.



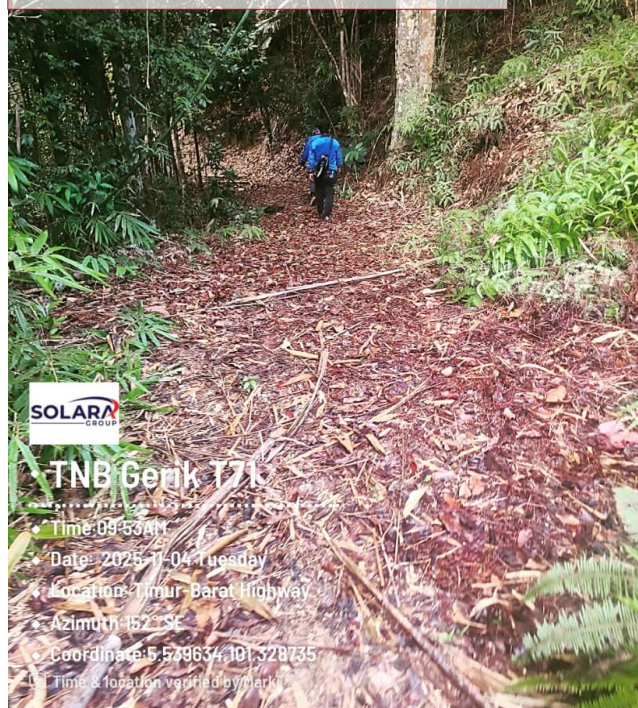
### PROPOSED NEW CABLE INFRA

- PROP OPEN TRENCHING FROM MH 14 TO PROP TOWER 71. 1200 METER.



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- PROP OPEN TRENCHING FROM MH 14 TO PROP TOWER 71. 1200 METER.



## Section 5: Outside Plant Site Snapshot (OSP)

