

**Annex I – Result of The Traffic Count Survey**

**1) Existing Nearby Road Network**

- 1.1 The application site (the Site) is accessible from Ping Che Road via the aforesaid local access.
- 1.2 The existing local access that connects the Site to Ping Che Road is a village track. Ping Che Road is district distributor which provides major access for traffic commuting to/from Ta Kwu Ling and other areas of North East New Territories.

**2) Existing Traffic Flows with the Proposed Development**

- 2.1 In order to gain understanding of the existing traffic condition of the vicinity of the Site, traffic count surveys were conducted at the key locations on 29/5/2024 (Wednesday) PM and 30/5/2024 (Thursday) AM with survey period of 07:00 – 10:00 and 16:00 – 19:00. The AM and PM peak hours are identified to occur at 08:00 – 09:00 and 17:00 – 18:00 respectively. The survey results are shown at **Tables 1** and **2** below and **Figures 1** and **2**:

**Table 1: 2024 Peak Hour Junction Capacity Performance (w/o the proposed development)**

| Junction No. | Location                     | DFC for AM Peak   | DFC for PM Peak   |
|--------------|------------------------------|-------------------|-------------------|
| J1           | Ping Che Road / Local Access | 0.04 <sup>#</sup> | 0.03 <sup>#</sup> |

<sup>#</sup>Please refer to the junction capacity performance calculation at **Annex II**.

**Table 2: 2024 Peak Hour Road Link Performance (w/o the proposed development)**

| Link No. | Location      | Direction | Design Capacity | AM Peak                     |      | PM Peak        |      |
|----------|---------------|-----------|-----------------|-----------------------------|------|----------------|------|
|          |               |           |                 | Flows <sup>#</sup> (veh/hr) | P/Df | Flows (veh/hr) | P/Df |
| L1       | Ping Che Road | NB        | 400*            | 193                         | 0.48 | 183            | 0.46 |
|          |               | SB        | 400*            | 184                         | 0.46 | 175            | 0.44 |
| L2       | Ping Che Road | NB        | 400*            | 195                         | 0.49 | 185            | 0.46 |
|          |               | SB        | 400*            | 185                         | 0.46 | 176            | 0.44 |
| L3       | Local Access  | 2-way     | 100             | 37                          | 0.37 | 31             | 0.31 |

\*According to TPDM 2.4.1.1, the design flow of a 2-lane single carriageway may be taken as 800 veh/h

<sup>#</sup>According to TPDM 2.3.1.1, flow (vehicle/hr) has been converted to passenger car units

- 2.2 The traffic count results indicate that the key link flows in the vicinity of the proposed development are currently operating within capacity during the AM and PM peak hour.

**3) Trip Generation and Attraction of the Proposed Development**

- 3.1 The applicant has been a warehouse operator for decades and intends to operate the proposed development at the Site to provide more local storage space to support the local warehousing and logistics industry. According to the applicant, the below **Table 3** is the estimated trip

generation and attraction of the proposed development at 08:00 – 09:00 and 17:00 – 18:00, details are as follows:

**Table 3:** Trip Generation and Attraction of the Proposed Development

| Time Period            | Trip Generation and Attraction |     |     |     |      |     |             |
|------------------------|--------------------------------|-----|-----|-----|------|-----|-------------|
|                        | PC                             |     | MGV |     | CV/T |     | 2-Way Total |
|                        | In                             | Out | In  | Out | In   | Out |             |
| Trips at 08:00 – 09:00 | 2                              | 0   | 0   | 2   | 0    | 3   | 7           |
| Trips at 17:00 – 18:00 | 0                              | 2   | 2   | 0   | 3    | 0   | 7           |

#According to TPDM 2.3.1.1, flow of vehicle has been converted to passenger car units

**4) Future Traffic Situation with the Proposed Development**

4.1 Based on the results of the traffic count survey on the existing peak hours traffic flows with the accumulation of the estimated peak hour traffic generation and attraction by the proposed development, the peak hour traffic flows with the proposed development are shown at **Tables 4 and 5** below and **Figure 2**:

**Table 4:** 2024 Peak Hour Junction Capacity Performance (with the proposed development)

| Junction No. | Location                     | DFC for AM Peak | DFC for PM Peak |
|--------------|------------------------------|-----------------|-----------------|
| J1           | Ping Che Road / Local Access | <u>0.05</u> #   | <u>0.04</u> #   |

#Please refer to the junction capacity performance calculation at **Annex II**.

**Table 5:** 2024 Peak Hour Road Link Performance (with the proposed development)

| Link No. | Location      | Direction | Design Capacity | AM Peak            |             | PM Peak            |             |
|----------|---------------|-----------|-----------------|--------------------|-------------|--------------------|-------------|
|          |               |           |                 | Flows (veh/hr)     | P/Df        | Flows (veh/hr)     | P/Df        |
| L1       | Ping Che Road | NB        | 400*            | <u>198</u><br>(+5) | <u>0.50</u> | 183                | 0.41        |
|          |               | SB        | 400*            | 184                | 0.41        | <u>180</u><br>(+5) | <u>0.45</u> |
| L2       | Ping Che Road | NB        | 400*            | <u>197</u><br>(+2) | <u>0.49</u> | 185                | 0.42        |
|          |               | SB        | 400*            | 185                | 0.41        | <u>178</u><br>(+2) | <u>0.45</u> |
| L3       | Local Access  | 2-way     | 100             | <u>44</u><br>(+7)  | <u>0.44</u> | <u>38</u><br>(+7)  | <u>0.38</u> |

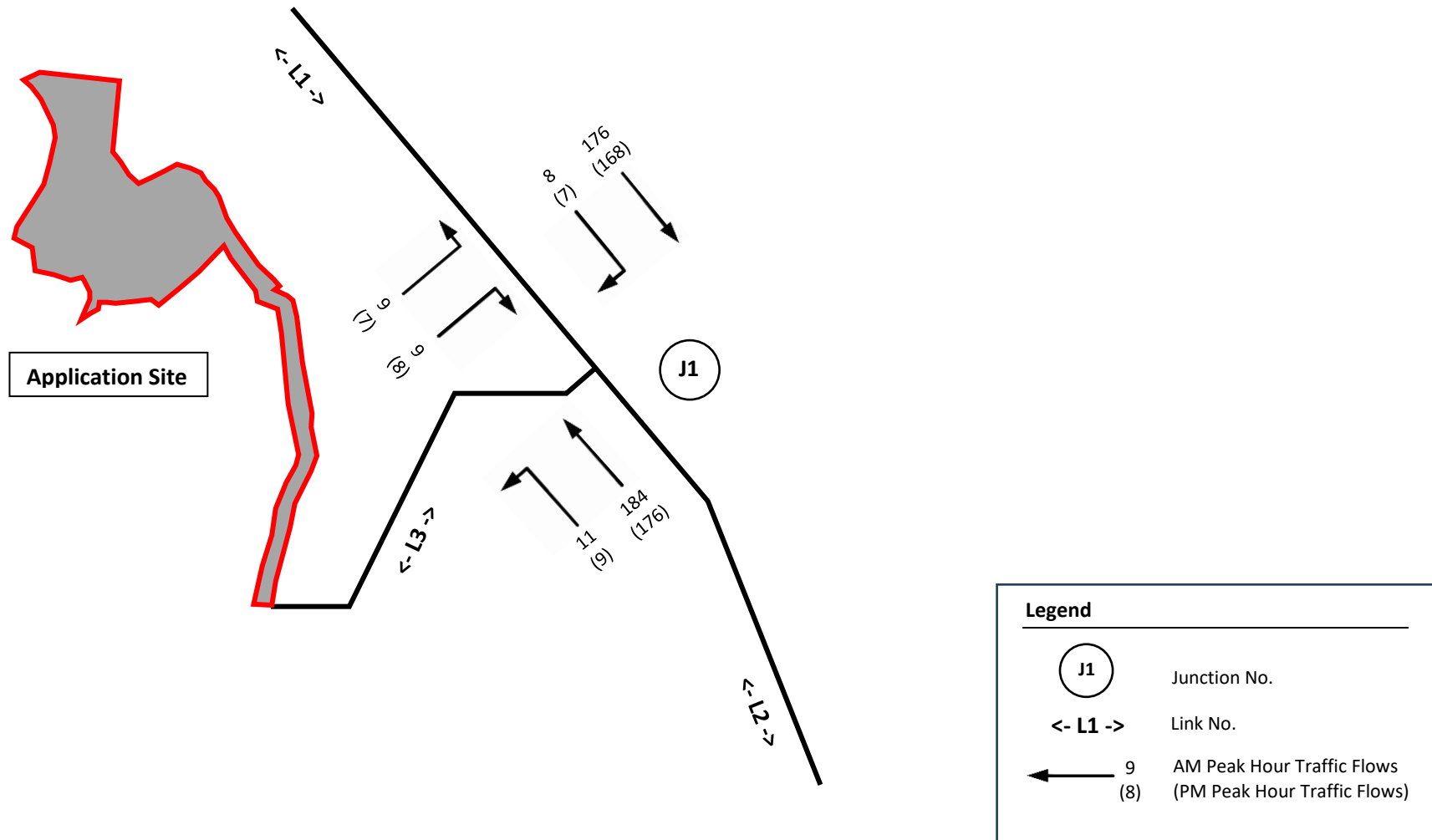
\*According to TPDM 2.4.1.1, the design flow of a 2-lane single carriageway may be taken as 800 veh/h

4.2 As advised by the applicant, goods vehicle would likely enter/leave the Site from/towards Heung Yuen Wai Highway, while private car would likely enter/leave the Site from/towards Sha Tau Kok Road (Ma Mei Ha). Therefore, vehicular trips are added to respective road links at AM and PM peak.

- 4.3 The results shown at **Tables 4, 5** and **Annex II** indicate that all the link flows in the vicinity of the proposed development would be operating within capacity during the AM and PM peak hour even with the estimated peak hours trips from the proposed development.
- 4.4 Furthermore, passing areas are also provided along the local access connecting the Site to Ping Che Road, hence, adverse traffic impact arisen from the proposed development to the surrounding road network should not be anticipated (**Annex III**).

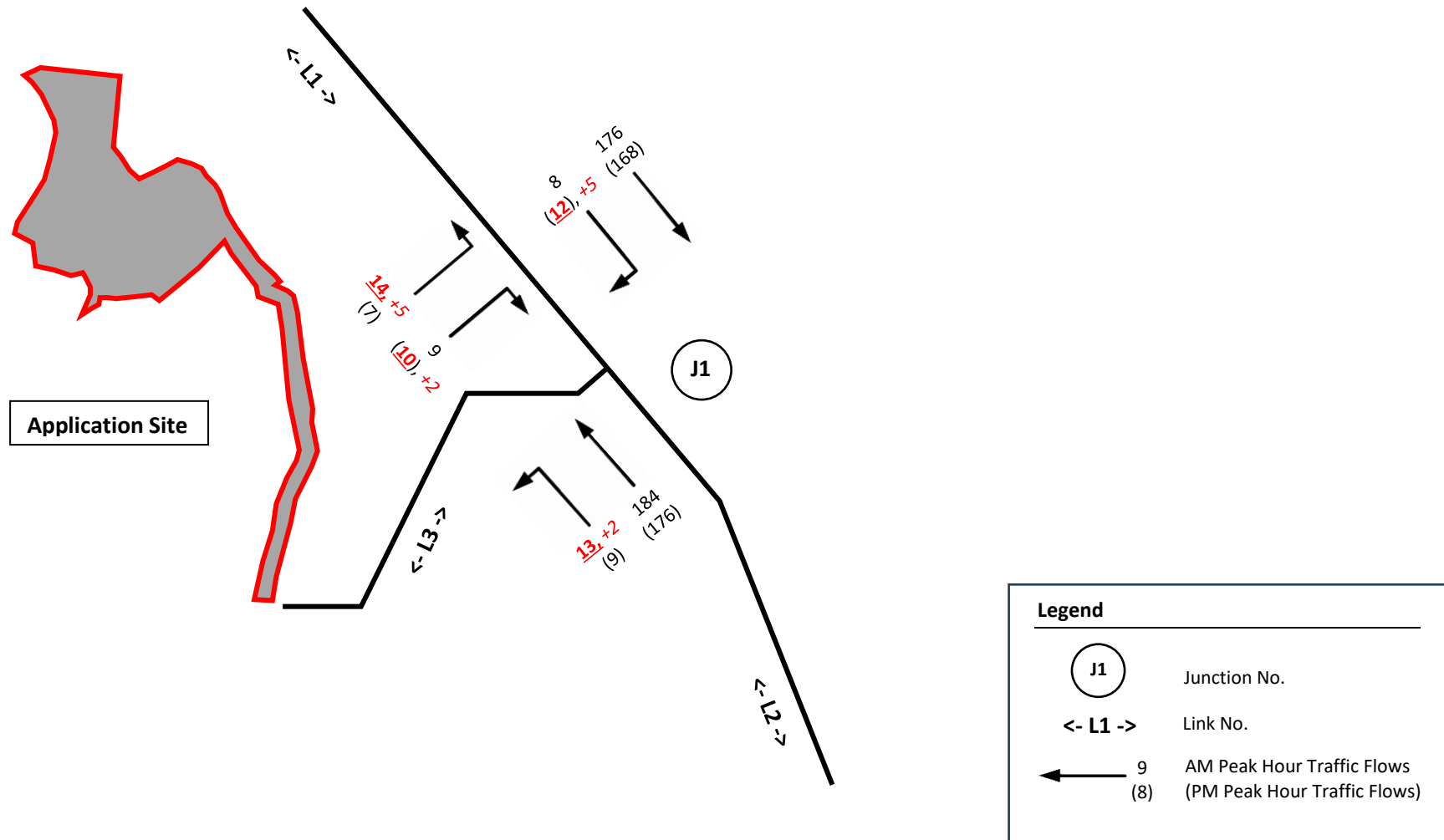
**Figure 1 – Observed 2024 Peak Hour Traffic Flows (without the Proposed Development)**

1) The AM and PM peak hours are identified to occur at 08:00 – 09:00 and 17:00 – 18:00 respectively.



**Figure 2 – Future 2024 Peak Hour Traffic Flows (with the Proposed Development)**

1) The AM and PM peak hours are identified to occur at 08:00 – 09:00 and 17:00 – 18:00 respectively.



**Proposed Temporary Warehouse (Excluding Dangerous Goods Godown) with Ancillary Facilities for a Period of 3 Years and Associated Filling of Land in "Agriculture" and "Industrial (Group D)" Zones, Various Lots in D.D. 84, Ta Kwu Ling, New Territories**  
**S.16 Planning Application No. A/NE-TKL/757**

**Priority Junction Calculation**

2024 AM Peak (w/o the proposed development)

**Geomatic details:**

Major Road (Arm A)

|       |   |     |        |
|-------|---|-----|--------|
| W     | = | 6.3 | metres |
| W cr  | = | 0   | metres |
| q a-b | = | 11  | pcu/hr |
| q a-c | = | 184 | pcu/hr |

Major Road (Arm C)

|        |   |     |        |
|--------|---|-----|--------|
| W c-b  | = | 3.1 | metres |
| Vr c-b | = | 22  | metres |
| q c-a  | = | 176 | pcu/hr |
| q c-b  | = | 8   | pcu/hr |

Minor Road (Arm B)

|        |   |     |        |
|--------|---|-----|--------|
| W b-a  | = | 3   | metres |
| W b-c  | = | 3   | metres |
| Vl b-a | = | 105 | metres |
| Vr b-a | = | 62  | metres |
| Vr b-c | = | 62  | metres |
| q b-a  | = | 9   | pcu/hr |
| q b-c  | = | 9   | pcu/hr |

**Geometric factors:**

|   |   |        |
|---|---|--------|
| D | = | 0.8659 |
| E | = | 0.8899 |
| F | = | 0.8647 |
| Y | = | 0.7827 |

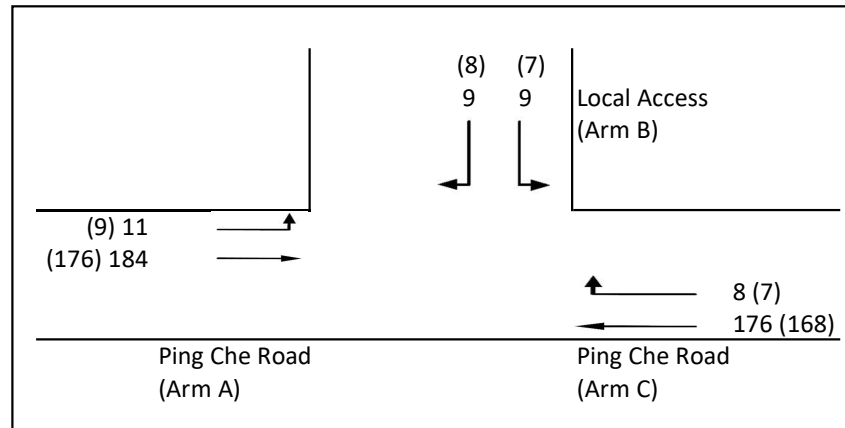
**The capacity of movement:**

|        |   |          |
|--------|---|----------|
| Q b-a  | = | 466.3031 |
| Q b-c  | = | 615.2175 |
| Q c-b  | = | 596.1376 |
| Q b-ac | = | 466.3031 |

**Comparison of design flow to capacity:**

|                       |   |        |
|-----------------------|---|--------|
| DFC b-a               | = | 0.0193 |
| DFC b-c               | = | 0.0146 |
| DFC c-b               | = | 0.0134 |
| DFC b-ac (share lane) | = | 0.0386 |

Total flow = 397 pcu/hr



**Critical DFC = 0.04**

- W = Major Road Width
- W cr = Central Reserve Width
- W b-a = Lane width available to vehicle waiting in stream b-a
- W b-c = Lane width available to vehicle waiting in stream b-c
- W c-b = Lane width available to vehicle waiting in stream c-b
- Vl b-a = Visibility to the left for vehicles waiting in stream b-a
- Vr b-a = Visibility to the right for vehicles waiting in stream b-a
- Vr b-c = Visibility to the right for vehicles waiting in stream b-c
- Vr c-b = Visibility to the right for vehicles waiting in stream c-b

- D = Stream-specific B-A
- E = Stream-specific B-C
- F = Stream-specific C-B
- Y = (1-0.0345W)

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**S.16 Planning Application No. A/NE-TKL/757**

**Priority Junction Calculation**

2024 PM Peak (w/o the proposed development)

**Geomatic details:**

|                    |   |            |
|--------------------|---|------------|
| Major Road (Arm A) |   |            |
| W                  | = | 6.3 metres |
| W cr               | = | 0 metres   |
| q a-b              | = | 9 pcu/hr   |
| q a-c              | = | 176 pcu/hr |

**Geometric factors:**

|   |   |        |
|---|---|--------|
| D | = | 0.8659 |
| E | = | 0.8899 |
| F | = | 0.8647 |
| Y | = | 0.7827 |

**The capacity of movement:**

|        |   |          |
|--------|---|----------|
| Q b-a  | = | 470.0655 |
| Q b-c  | = | 617.4462 |
| Q c-b  | = | 598.6009 |
| Q b-ac | = | 470.0655 |

**Comparison of design flow to capacity:**

|                       |   |        |
|-----------------------|---|--------|
| DFC b-a               | = | 0.0170 |
| DFC b-c               | = | 0.0113 |
| DFC c-b               | = | 0.0117 |
| DFC b-ac (share lane) | = | 0.0319 |

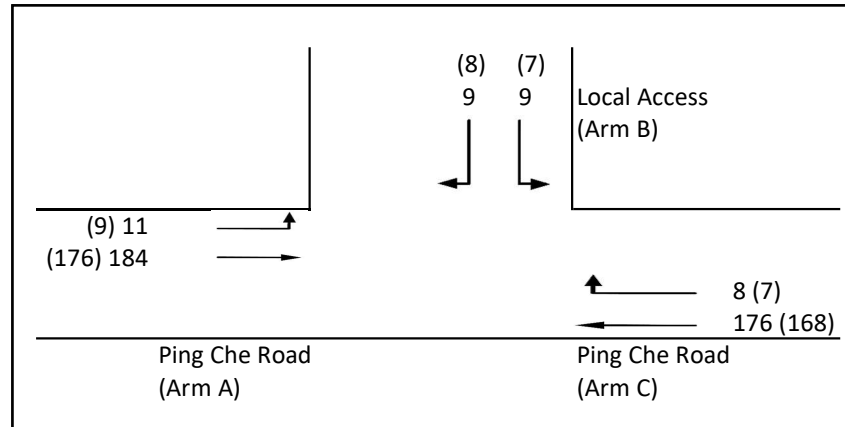
**Major Road (Arm C)**

|        |   |            |
|--------|---|------------|
| W c-b  | = | 3.1 metres |
| Vr c-b | = | 22 metres  |
| q c-a  | = | 168 pcu/hr |
| q c-b  | = | 7 pcu/hr   |

Total flow = 375 pcu/hr

**Minor Road (Arm B)**

|        |   |            |
|--------|---|------------|
| W b-a  | = | 3 metres   |
| W b-c  | = | 3 metres   |
| Vl b-a | = | 105 metres |
| Vr b-a | = | 62 metres  |
| Vr b-c | = | 62 metres  |
| q b-a  | = | 8 pcu/hr   |
| q b-c  | = | 7 pcu/hr   |



**Critical DFC = 0.03**

- W = Major Road Width
- W cr = Central Reserve Width
- W b-a = Lane width available to vehicle waiting in stream b-a
- W b-c = Lane width available to vehicle waiting in stream b-c
- W c-b = Lane width available to vehicle waiting in stream c-b
- Vl b-a = Visibility to the left for vehicles waiting in steam b-a
- Vr b-a = Visibility to the right for vehicles waiting in steam b-a
- Vr b-c = Visibility to the right for vehicles waiting in steam b-c
- Vr c-b = Visibility to the right for vehicles waiting in steam c-b

- D = Stream-specific B-A
- E = Stream-specific B-C
- F = Stream-specific C-B
- Y = (1-0.0345W)

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**Priority Junction Calculation**

2024 AM Peak (with the proposed development)

**Geomatic details:**

|                    |   |                  |
|--------------------|---|------------------|
| Major Road (Arm A) |   |                  |
| W                  | = | 6.3 metres       |
| W cr               | = | 0 metres         |
| q a-b              | = | <b>13</b> pcu/hr |
| q a-c              | = | 184 pcu/hr       |

**Geometric factors:**

|   |   |        |
|---|---|--------|
| D | = | 0.8659 |
| E | = | 0.8899 |
| F | = | 0.8647 |
| Y | = | 0.7827 |

**The capacity of movement:**

|        |   |          |
|--------|---|----------|
| Q b-a  | = | 466.1079 |
| Q b-c  | = | 615.0169 |
| Q c-b  | = | 595.6450 |
| Q b-ac | = | 466.1079 |

**Comparison of design flow to capacity:**

|                       |   |        |
|-----------------------|---|--------|
| DFC b-a               | = | 0.0193 |
| DFC b-c               | = | 0.0228 |
| DFC c-b               | = | 0.0134 |
| DFC b-ac (share lane) | = | 0.0493 |

**Major Road (Arm C)**

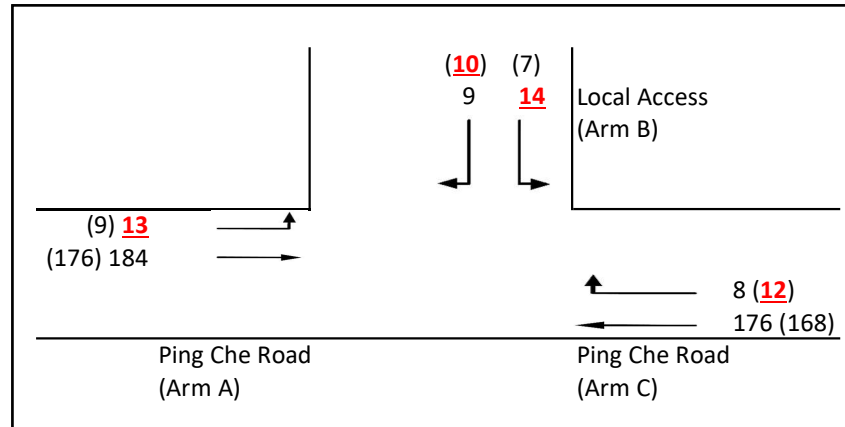
|        |   |            |
|--------|---|------------|
| W c-b  | = | 3.1 metres |
| Vr c-b | = | 22 metres  |
| q c-a  | = | 176 pcu/hr |
| q c-b  | = | 8 pcu/hr   |

Total flow = 404 pcu/hr

**Minor Road (Arm B)**

|        |   |                  |
|--------|---|------------------|
| W b-a  | = | 3 metres         |
| W b-c  | = | 3 metres         |
| Vl b-a | = | 105 metres       |
| Vr b-a | = | 62 metres        |
| Vr b-c | = | 62 metres        |
| q b-a  | = | 9 pcu/hr         |
| q b-c  | = | <b>14</b> pcu/hr |

**Critical DFC = 0.05**



- W = Major Road Width
- W cr = Central Reserve Width
- W b-a = Lane width available to vehicle waiting in stream b-a
- W b-c = Lane width available to vehicle waiting in stream b-c
- W c-b = Lane width available to vehicle waiting in stream c-b
- Vl b-a = Visibility to the left for vehicles waiting in steam b-a
- Vr b-a = Visibility to the right for vehicles waiting in steam b-a
- Vr b-c = Visibility to the right for vehicles waiting in steam b-c
- Vr c-b = Visibility to the right for vehicles waiting in steam c-b

- D = Stream-specific B-A
- E = Stream-specific B-C
- F = Stream-specific C-B
- Y = (1-0.0345W)



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**Priority Junction Calculation**

2024 PM Peak (with the proposed development)

**Geomatic details:**

|                    |   |            |
|--------------------|---|------------|
| Major Road (Arm A) |   |            |
| W                  | = | 6.3 metres |
| W cr               | = | 0 metres   |
| q a-b              | = | 9 pcu/hr   |
| q a-c              | = | 176 pcu/hr |

**Geometric factors:**

|   |   |        |
|---|---|--------|
| D | = | 0.8659 |
| E | = | 0.8899 |
| F | = | 0.8647 |
| Y | = | 0.7827 |

**The capacity of movement:**

|        |   |          |
|--------|---|----------|
| Q b-a  | = | 468.3035 |
| Q b-c  | = | 617.4462 |
| Q c-b  | = | 598.6009 |
| Q b-ac | = | 468.3035 |

**Comparison of design flow to capacity:**

|                       |   |        |
|-----------------------|---|--------|
| DFC b-a               | = | 0.0214 |
| DFC b-c               | = | 0.0113 |
| DFC c-b               | = | 0.0200 |
| DFC b-ac (share lane) | = | 0.0363 |

**Major Road (Arm C)**

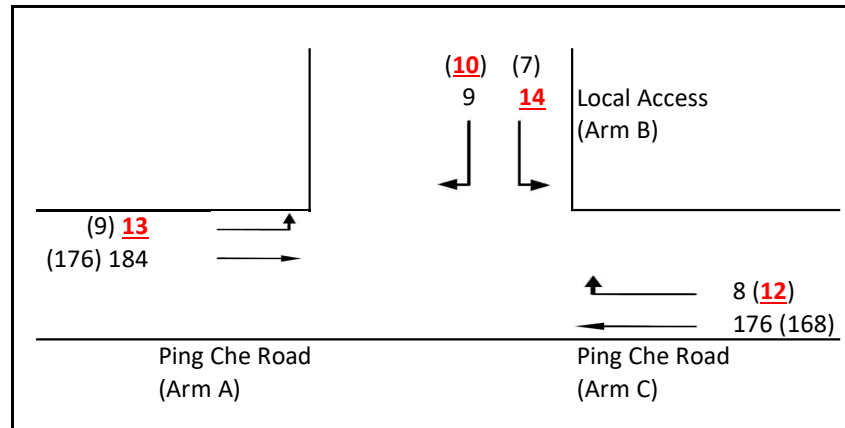
|        |   |                  |
|--------|---|------------------|
| W c-b  | = | 3.1 metres       |
| Vr c-b | = | 22 metres        |
| q c-a  | = | 168 pcu/hr       |
| q c-b  | = | <u>12</u> pcu/hr |

Total flow = 382 pcu/hr

**Minor Road (Arm B)**

|        |   |                  |
|--------|---|------------------|
| W b-a  | = | 3 metres         |
| W b-c  | = | 3 metres         |
| VI b-a | = | 105 metres       |
| Vr b-a | = | 62 metres        |
| Vr b-c | = | 62 metres        |
| q b-a  | = | <u>10</u> pcu/hr |
| q b-c  | = | 7 pcu/hr         |

**Critical DFC = 0.04**



- W = Major Road Width
- W cr = Central Reserve Width
- W b-a = Lane width available to vehicle waiting in stream b-a
- W b-c = Lane width available to vehicle waiting in stream b-c
- W c-b = Lane width available to vehicle waiting in stream c-b
- VI b-a = Visibility to the left for vehicles waiting in steam b-a
- Vr b-a = Visibility to the right for vehicles waiting in steam b-a
- Vr b-c = Visibility to the right for vehicles waiting in steam b-c
- Vr c-b = Visibility to the right for vehicles waiting in steam c-b

- D = Stream-specific B-A
- E = Stream-specific B-C
- F = Stream-specific C-B
- Y = (1-0.0345W)

**Annex III – Passing Areas at the Local Access**

(i) Adequate passing areas are also provided along the local access connecting the Site to Ping Che Road, details are as follows:

