



| Rev. | Description | Checked | Date |
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Project Title  
**CHI WAN GOVERNMENT COMPLEX AND VEHICLE DEPOT AT SHEUNG TAT STREET**

Drawing Title  
**KEY PLAN FOR EIA TRAFFIC FORECAST**

Designed YKP    Checked GPH    Scale NTS    Date JUL 2014    Drawing No. 1    Rev. -



YEAR 2018 HOURLY TRAFFIC FORECAST

|               | Total (veh/hr) | Total (veh/hr) | Total (veh/hr)    | Total (veh/hr)    | Total (veh/hr)    | Total (veh/hr)    | Total (veh/hr) | Total (veh/hr) | Total (veh/hr)   | Total (veh/hr) | Total (veh/hr)     | Total (veh/hr) | Total (veh/hr) | Total (veh/hr) |
|---------------|----------------|----------------|-------------------|-------------------|-------------------|-------------------|----------------|----------------|------------------|----------------|--------------------|----------------|----------------|----------------|
| Road Name     | Chong Fu Road  | Chong Fu Road  | Sheung Tat Street | Sheung Tat Street | Sheung Mau Street | Sheung Mau Street | Shing Tai Road | Shing Tai Road | Sheung On Street |                | Sheung Ping Street |                | Wing Tai Road  |                |
| Road ID       | 34             | 35             | 32                | 33                | 28                | 29                | 16             | 17             | 36               | 37             | 43                 | 44             | 8              | 9              |
| DIR           | WB             | EB             | NB                | SB                | WB                | EB                | NB             | SB             | NB               | SB             | EB                 | WB             | WB             | EB             |
| 00:00 ~ 01:00 | 57             | 38             | 12                | 36                | 12                | 36                | 171            | 85             | 37               | 27             | 18                 | 91             | 517            | 400            |
| 01:00 ~ 02:00 | 36             | 25             | 7                 | 17                | 7                 | 17                | 103            | 52             | 23               | 14             | 12                 | 51             | 312            | 241            |
| 02:00 ~ 03:00 | 24             | 18             | 3                 | 12                | 3                 | 12                | 67             | 32             | 16               | 9              | 8                  | 34             | 208            | 160            |
| 03:00 ~ 04:00 | 24             | 18             | 2                 | 10                | 2                 | 10                | 67             | 32             | 15               | 8              | 8                  | 33             | 209            | 159            |
| 04:00 ~ 05:00 | 24             | 18             | 1                 | 10                | 1                 | 10                | 69             | 30             | 15               | 9              | 8                  | 32             | 209            | 157            |
| 05:00 ~ 06:00 | 23             | 18             | 1                 | 10                | 1                 | 10                | 68             | 28             | 15               | 9              | 8                  | 31             | 211            | 157            |
| 06:00 ~ 07:00 | 71             | 51             | 9                 | 33                | 9                 | 33                | 205            | 88             | 46               | 28             | 28                 | 86             | 629            | 477            |
| 07:00 ~ 08:00 | 135            | 99             | 15                | 50                | 15                | 50                | 375            | 161            | 80               | 50             | 56                 | 148            | 1157           | 875            |
| 08:00 ~ 09:00 | 171            | 130            | 21                | 58                | 21                | 58                | 477            | 200            | 103              | 63             | 71                 | 183            | 1475           | 1117           |
| 09:00 ~ 10:00 | 146            | 108            | 21                | 57                | 21                | 57                | 408            | 181            | 89               | 58             | 60                 | 170            | 1260           | 959            |
| 10:00 ~ 11:00 | 127            | 94             | 19                | 60                | 19                | 60                | 378            | 170            | 83               | 54             | 51                 | 166            | 1149           | 880            |
| 11:00 ~ 12:00 | 117            | 83             | 20                | 60                | 20                | 60                | 343            | 161            | 79               | 51             | 45                 | 162            | 1042           | 799            |
| 12:00 ~ 13:00 | 125            | 86             | 24                | 72                | 24                | 72                | 376            | 183            | 89               | 59             | 48                 | 191            | 1144           | 883            |
| 13:00 ~ 14:00 | 125            | 86             | 25                | 78                | 25                | 78                | 379            | 189            | 92               | 59             | 45                 | 203            | 1139           | 883            |
| 14:00 ~ 15:00 | 126            | 81             | 28                | 85                | 28                | 85                | 379            | 192            | 94               | 62             | 43                 | 213            | 1132           | 882            |
| 15:00 ~ 16:00 | 133            | 86             | 33                | 98                | 33                | 98                | 417            | 221            | 105              | 70             | 45                 | 245            | 1231           | 967            |
| 16:00 ~ 17:00 | 130            | 83             | 37                | 108               | 37                | 108               | 417            | 226            | 109              | 71             | 42                 | 258            | 1228           | 971            |
| 17:00 ~ 18:00 | 140            | 85             | 44                | 122               | 44                | 122               | 454            | 251            | 121              | 79             | 44                 | 294            | 1327           | 1052           |
| 18:00 ~ 19:00 | 130            | 79             | 37                | 110               | 37                | 110               | 417            | 231            | 109              | 70             | 42                 | 262            | 1225           | 969            |
| 19:00 ~ 20:00 | 110            | 69             | 30                | 87                | 30                | 87                | 347            | 187            | 89               | 58             | 36                 | 214            | 1023           | 809            |
| 20:00 ~ 21:00 | 87             | 56             | 23                | 67                | 23                | 67                | 276            | 146            | 72               | 46             | 31                 | 165            | 821            | 644            |
| 21:00 ~ 22:00 | 78             | 49             | 18                | 56                | 18                | 56                | 243            | 126            | 60               | 41             | 28                 | 139            | 722            | 560            |
| 22:00 ~ 23:00 | 78             | 52             | 18                | 54                | 18                | 54                | 242            | 124            | 61               | 41             | 30                 | 136            | 723            | 561            |
| 23:00 ~ 00:00 | 67             | 46             | 15                | 45                | 15                | 45                | 207            | 104            | 49               | 34             | 26                 | 111            | 620            | 483            |
| AM (Max)      | 171            | 130            | 55                | 44                | 55                | 44                | 477            | 251            | 121              | 79             | 71                 | 294            | 1475           | 1117           |
| PM (Max)      | 87             | 69             | 36                | 30                | 36                | 30                | 347            | 187            | 89               | 58             | 36                 | 214            | 1023           | 809            |

SUMMARY OF TRAFFIC FLOW AND POPULATION

|                    | Year 2016             | Year 2016             | Year 2018             | Year 2018             | Year 2016          | Year 2016          | Year 2018          | Year 2018          |               |                  |
|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|---------------|------------------|
|                    | Traffic Flow (veh/hr) | Traffic Flow (veh/hr) | Traffic Flow (veh/hr) | Traffic Flow (veh/hr) | Population WDD/WED | Population WDN/WEN | Population WDD/WED | Population WDN/WEN | Speed (km/hr) | Road length (km) |
| Road Name          | AM                    | PM                    | AM                    | PM                    | AM                 | PM                 | AM                 | PM                 |               |                  |
| Chong Fu Road      | 301                   | 179                   | 301                   | 179                   | 5                  | 3                  | 5                  | 3                  | 50            | 0.29             |
| Sheung Tat Street  | 99                    | 66                    | 99                    | 66                    | 2                  | 1                  | 2                  | 1                  | 50            | 0.23             |
| Sheung Mau Street  | 232                   | 172                   | 232                   | 172                   | 3                  | 2                  | 3                  | 2                  | 50            | 0.16             |
| Shing Tai Road     | 728                   | 534                   | 728                   | 534                   | 30                 | 22                 | 30                 | 22                 | 50            | 0.75             |
| Sheung On Street   | 200                   | 147                   | 200                   | 147                   | 8                  | 6                  | 8                  | 6                  | 50            | 0.70             |
| Sheung Ping Street | 365                   | 250                   | 365                   | 250                   | 2                  | 2                  | 2                  | 2                  | 50            | 0.08             |
| Wing Tai Road      | 2592                  | 1832                  | 2592                  | 1832                  | 57                 | 40                 | 57                 | 40                 | 50            | 0.40             |

Note:

- The traffic flows of Year 2016 are assumed to be identical to the traffic flows of Year 2018.
- Average occupancy of 2.7 ppl/veh is estimated from Station 2215 of Hong Kong Annual Traffic Census 2013.  
Traffic flow of Chung Fu Road in am period = 171 + 130 = 301 veh/hr  
Population of Chung Fu Road in am period = 301 × 0.29 × 2.7 / 50 ≈ 5 ppl
- Apply AM traffic flow for both weekday day(WDD) and weekend day and apply PM traffic flow for both weekday night (WDN) and weekend nigh (WEN).
- Refer to Figure 10.4 for ID of roads

Coverage (B) Station 2215  
Year 2013

4. Vehicle classification and occupancy - Monday to Friday

| Time      |     | Class of vehicle |         |      |         |     |            |       |         |         |      |
|-----------|-----|------------------|---------|------|---------|-----|------------|-------|---------|---------|------|
|           |     | Motor            | Private | Taxi | Private | PLB | Goods veh. |       | Non     | Fr. Bus |      |
|           |     | Cycle            | Car     |      | LB      |     | Light      | M & H | Fr. Bus | SD      | DD   |
| 0700-0800 | Pro | 6.7              | 29.7    | 24.2 | 2.2     | 0.0 | 22.6       | 5.9   | 3.9     | 0.2     | 4.6  |
|           | Ocp | 1.2              | 1.3     | 1.8  | 9.5     | 0.0 | 1.5        | 1.4   | 15.0    | 1.0     | 46.2 |
| 0800-0900 | Pro | 2.7              | 37.4    | 24.4 | 2.2     | 0.0 | 19.3       | 7.6   | 2.8     | 0.0     | 3.5  |
|           | Ocp | 1.2              | 1.2     | 1.8  | 4.9     | 0.0 | 1.6        | 1.3   | 16.2    | 0.0     | 52.7 |
| 0900-1000 | Pro | 2.7              | 28.6    | 21.6 | 2.4     | 0.0 | 26.7       | 11.2  | 3.1     | 0.1     | 3.6  |
|           | Ocp | 1.1              | 1.4     | 1.8  | 3.5     | 0.0 | 1.6        | 1.3   | 1.8     | 1.0     | 23.5 |
| 1000-1100 | Pro | 1.7              | 32.2    | 16.5 | 0.5     | 0.0 | 35.2       | 7.9   | 1.2     | 0.1     | 4.7  |
|           | Ocp | 1.0              | 1.3     | 1.5  | 1.0     | 0.0 | 1.5        | 1.2   | 6.7     | 1.0     | 15.7 |
| 1100-1200 | Pro | 4.1              | 29.4    | 16.7 | 2.2     | 0.0 | 32.7       | 9.1   | 3.2     | 0.1     | 2.6  |
|           | Ocp | 1.1              | 1.2     | 1.7  | 1.8     | 0.0 | 1.5        | 1.4   | 3.8     | 1.0     | 23.3 |
| 1200-1300 | Pro | 2.8              | 30.8    | 15.1 | 2.5     | 0.0 | 33.6       | 8.5   | 3.9     | 0.1     | 2.7  |
|           | Ocp | 1.2              | 1.3     | 1.7  | 4.9     | 0.0 | 1.5        | 1.4   | 9.6     | 1.0     | 24.1 |
| 1300-1400 | Pro | 1.9              | 27.4    | 16.1 | 2.6     | 0.0 | 36.6       | 9.9   | 3.1     | 0.1     | 2.5  |
|           | Ocp | 1.1              | 1.3     | 1.5  | 4.2     | 0.0 | 1.6        | 1.2   | 6.8     | 1.0     | 24.8 |
| 1400-1500 | Pro | 1.5              | 28.7    | 19.3 | 1.1     | 0.0 | 32.2       | 11.7  | 2.6     | 0.1     | 2.9  |
|           | Ocp | 1.0              | 1.5     | 1.8  | 1.9     | 0.0 | 1.6        | 1.3   | 2.3     | 1.0     | 21.7 |
| 1500-1600 | Pro | 3.4              | 33.4    | 17.0 | 2.6     | 0.0 | 29.1       | 9.6   | 1.8     | 0.1     | 3.1  |
|           | Ocp | 1.1              | 1.4     | 1.4  | 4.9     | 0.0 | 1.5        | 1.4   | 15.8    | 1.0     | 18.8 |
| 1600-1700 | Pro | 2.5              | 31.5    | 22.9 | 2.0     | 0.0 | 27.7       | 7.8   | 2.3     | 0.1     | 3.2  |
|           | Ocp | 1.1              | 1.3     | 1.3  | 3.8     | 0.0 | 1.5        | 1.2   | 7.3     | 1.0     | 24.2 |
| 1700-1800 | Pro | 6.1              | 36.4    | 20.9 | 2.9     | 0.0 | 22.2       | 5.1   | 2.2     | 0.0     | 4.2  |
|           | Ocp | 1.1              | 1.3     | 1.8  | 2.3     | 0.0 | 1.5        | 1.3   | 2.9     | 0.0     | 29.4 |
| 1800-1900 | Pro | 3.9              | 48.1    | 18.9 | 0.9     | 0.0 | 19.7       | 2.9   | 2.0     | 0.1     | 3.6  |
|           | Ocp | 1.0              | 1.3     | 1.8  | 2.5     | 0.0 | 1.4        | 1.6   | 9.6     | 1.0     | 55.3 |
| 1900-2000 | Pro | 6.1              | 57.5    | 17.1 | 0.3     | 0.0 | 10.5       | 2.7   | 2.0     | 0.0     | 3.8  |
|           | Ocp | 1.1              | 1.4     | 2.0  | 1.0     | 0.0 | 1.6        | 1.5   | 1.7     | 0.0     | 41.4 |
| 2000-2100 | Pro | 4.6              | 44.5    | 29.9 | 0.2     | 0.0 | 8.1        | 2.6   | 2.4     | 0.5     | 7.3  |
|           | Ocp | 1.1              | 1.4     | 2.1  | 2.0     | 0.0 | 1.5        | 1.5   | 2.4     | 1.0     | 18.0 |
| 2100-2200 | Pro | 4.1              | 38.6    | 38.0 | 0.6     | 0.0 | 9.6        | 2.1   | 0.8     | 0.3     | 5.9  |
|           | Ocp | 1.2              | 1.4     | 1.9  | 2.0     | 0.0 | 1.6        | 1.3   | 1.3     | 1.0     | 19.1 |
| 2200-2300 | Pro | 3.9              | 43.1    | 39.9 | 0.0     | 0.0 | 4.8        | 0.7   | 1.0     | 0.2     | 6.4  |
|           | Ocp | 1.2              | 1.6     | 1.7  | 0.0     | 0.0 | 1.2        | 1.0   | 1.3     | 1.0     | 19.3 |
| 16 hours  | Pro | 3.5              | 35.2    | 21.5 | 1.7     | 0.0 | 24.5       | 7.2   | 2.5     | 0.1     | 3.8  |
|           | Ocp | 1.1              | 1.3     | 1.7  | 3.9     | 0.0 | 1.5        | 1.3   | 7.3     | 1.0     | 28.3 |

Legend

- Pro. Proportion of vehicles in % (Sum may not add up to 100% due to figure rounding)
- Ocp. Average occupancy of vehicles
- M&H Medium and Heavy