

**To what extent does Hong Kong fit the pattern of decreasing land values with increasing distance from the Peak Land Value Intersection (PLVI)?**

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## 2 Introduction

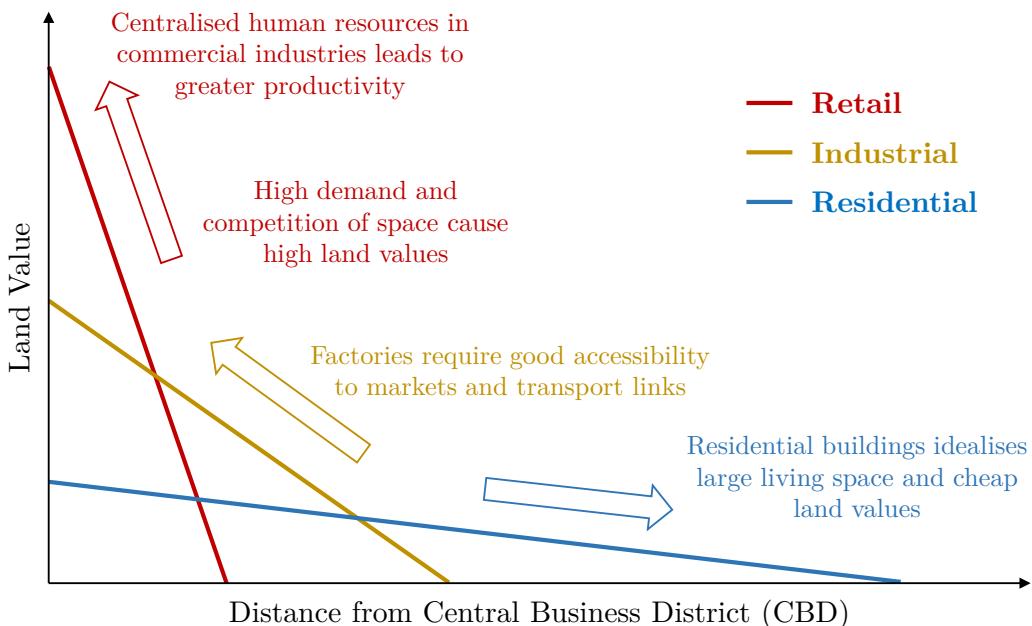
This study will be focused on to what extent does Hong Kong fit the pattern of decreasing land values with increasing distance from the PLVI. This is closely related to the Urban Environments section of the IB Geography syllabus because the bid-rent theory and various urban land use models have been extensively explored.

### 2.1 Hypothesis

Due to the impracticality of obtaining an accurate land value, the building height is chosen to be the proxy indicator for this study.

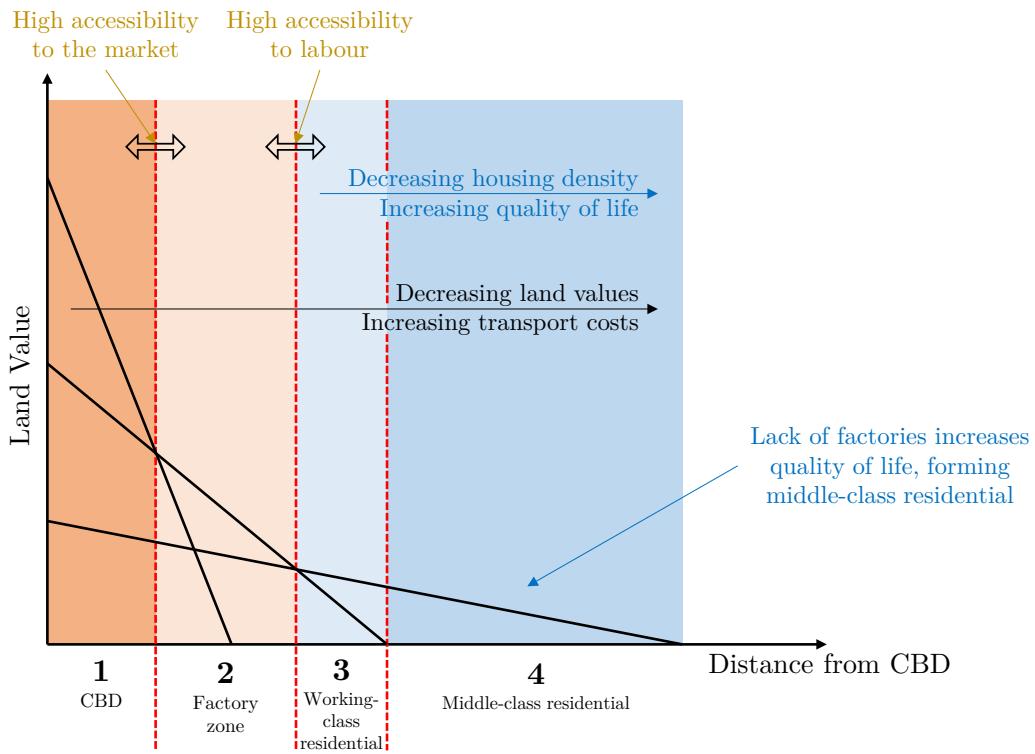
The set of hypotheses are:

1. Null Hypothesis ( $H_0$ ): The height of buildings in Hong Kong will not decrease with increasing distance from the PLVI.
2. Alternate Hypothesis ( $H_1$ ): The height of buildings in Hong Kong will decrease with increasing distance from the PLVI.

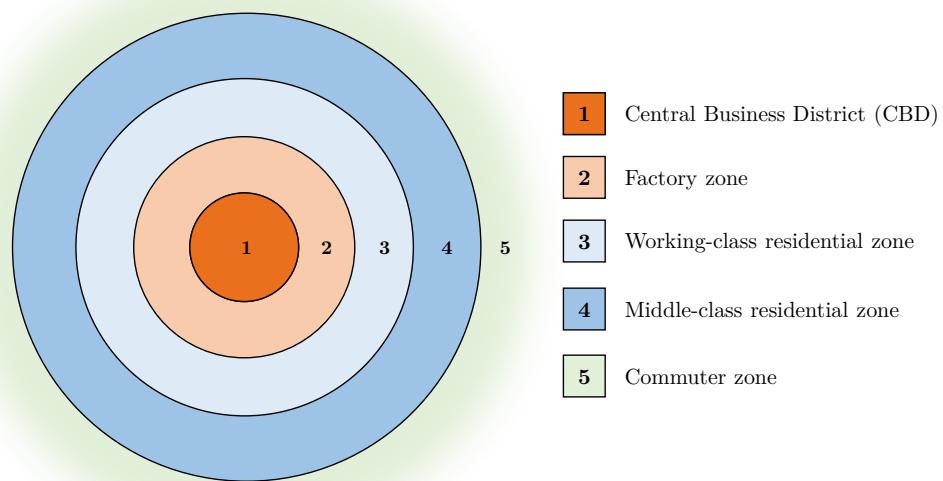


**Figure 1.** The bid-rent theory. (Ahlfeldt et al.; Alonso).

Figure 1 demonstrates how the decreasing demand and competition for real estate causes decreasing land values with increasing distance from the CBD (Alonso).



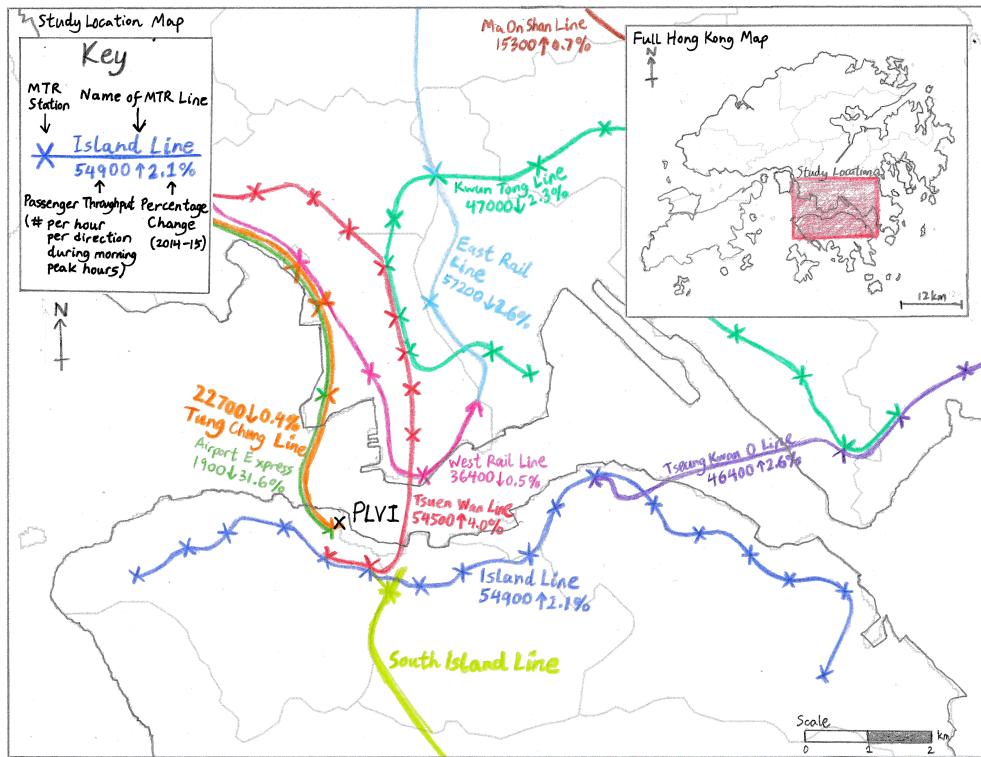
**Figure 2.** Determination of land use types from the bid-rent theory.



**Figure 3.** The Burgess Model (Burgess).

As land in Hong Kong are sold to the highest bidder, land developers will aim to utilise the land by maximising the gross floor area, which they will do so by expanding vertically. As a result, the building height generally increases as the land value increases. Highly profitable commercial industries will therefore locate high-rise skyscrapers closer to the CBD, while citizens with less purchasing power will live in low-rise buildings further away from the CBD.

## 2.2 Site of the study location



**Map 1.** A map of PLVI and the Mass Transit Railway (MTR) links in the study location.  
(Legislative Council Panel on Transport Subcommittee and MTRCL; LLC)

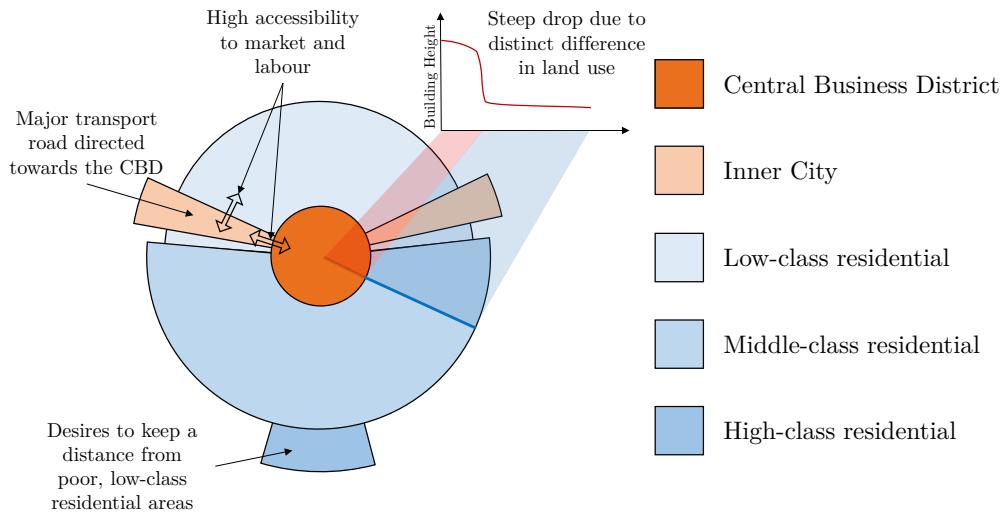
The PLVI is defined as a location in the CBD which has the highest land value and accessibility. Since land value is measured by the building height, the *International Commerce Centre* (460.4m (“HKMS 2.0”)) has been chosen as the PLVI. It is also within close proximity to 4 Mass Transit Railway (MTR) intersections, with the majority having a high passenger throughput, making the area highly accessible.

The *International Commerce Centre* (460.4m (“HKMS 2.0”)) is not chosen because it is not located within the CBD.

## 2.3 Incorrect Assumptions of the Burgess Model

While the bid-rent theory suggests decreasing land value as distance increases, several factors can support the null hypothesis, outlined below:

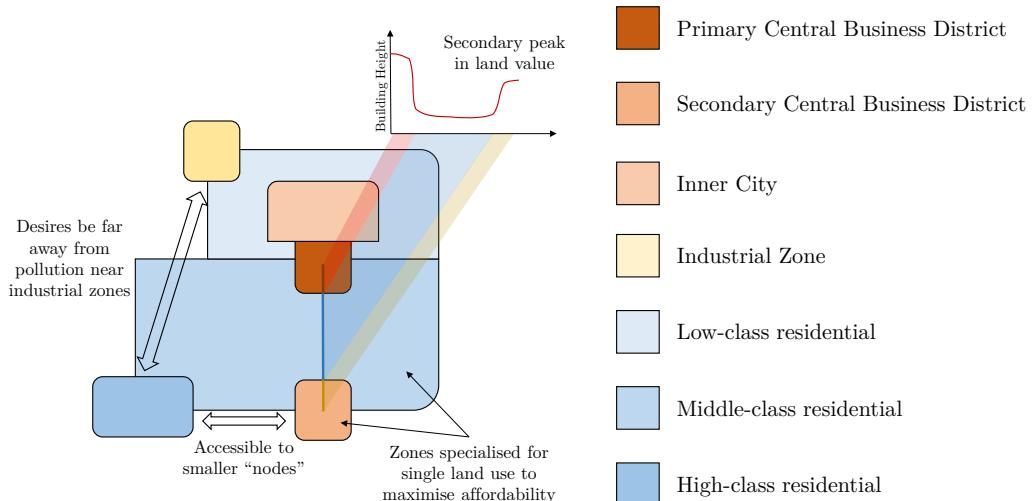
### 2.3.1 Hoyt's model



**Figure 4.** The Hoyt's model. (Hoyt)

Hoyt proposes an alternate model that accounts for the historical transport links that direct into the CBD, serving as a border between the low and high-class residential areas. The stark change in the value of the land uses may suggest a large difference in building height as shown in Figure 4.

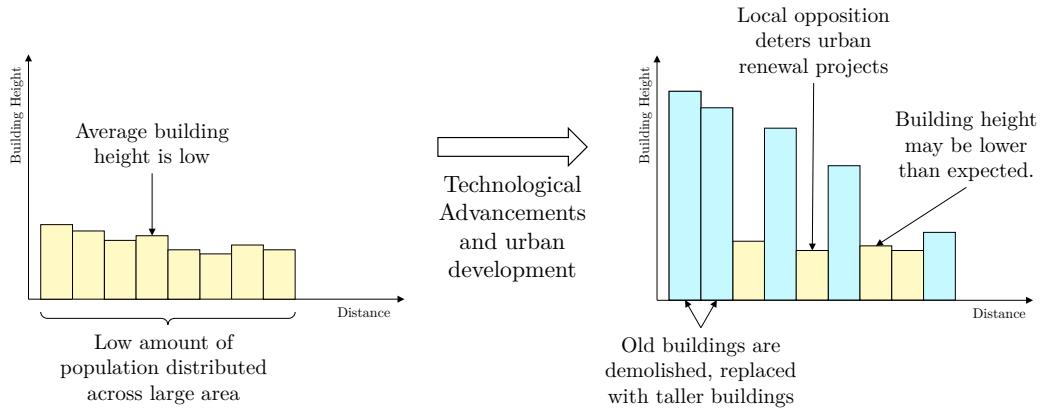
### 2.3.2 Functional Zones



**Figure 5.** The Multiple Nuclei Model. (Harris and Ullman)

Figure 5 suggests that to maximise accessibility, small nodes will develop to secondary CBDs, each causing a secondary PLVI of a smaller magnitude outside the CBD.

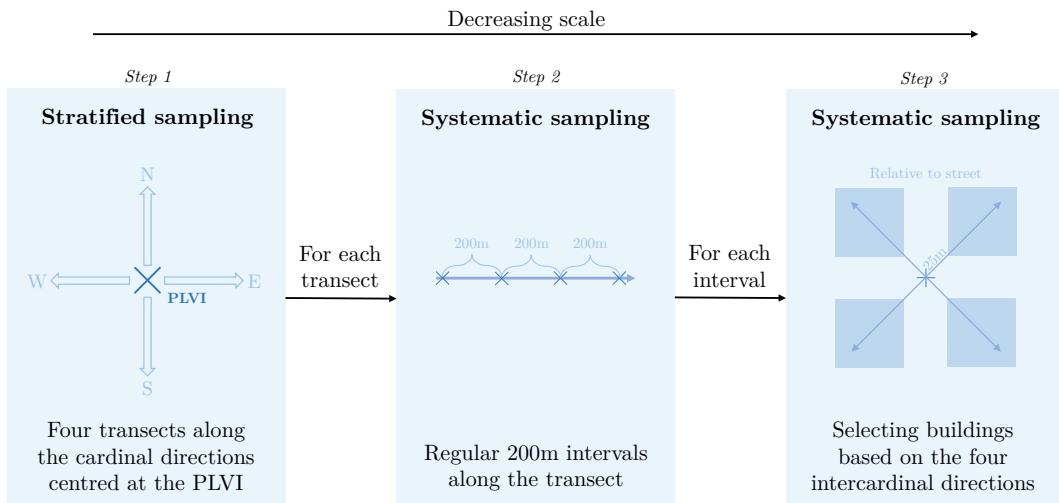
### 2.3.3 Historical Development



**Figure 7.** Historical development of Hong Kong causing drops in building height.

### 3 Methodology

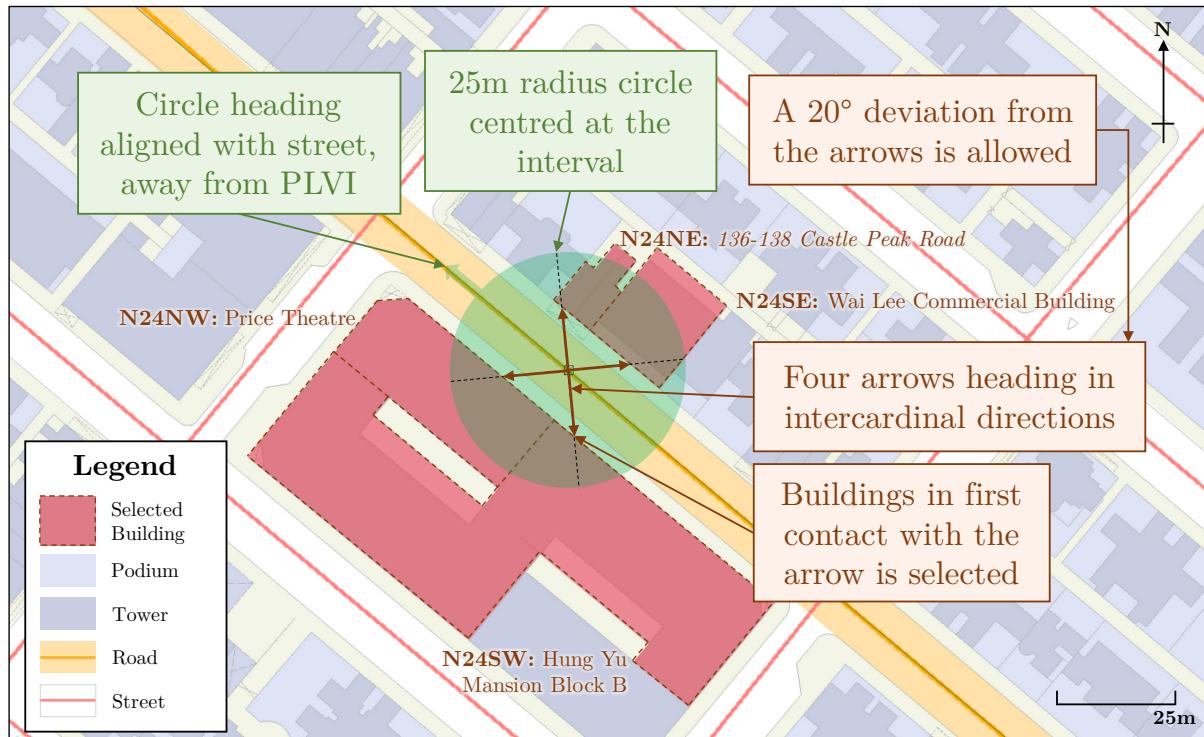
#### 3.1 Sampling Methods



**Figure 8.** Outline of the process of selecting buildings as samples.

In Figure 8, stratified sampling is used in *Step 1* to maximise the spatial coverage of buildings in all directions, while systematic sampling is used in *Step 2* and *3* to obtain data with a randomness comparable to random sampling, while taking considerably less effort because all buildings will not have to be identified and marked prior to the sampling process. These methods therefore maintain an unbiased representation of all building heights.

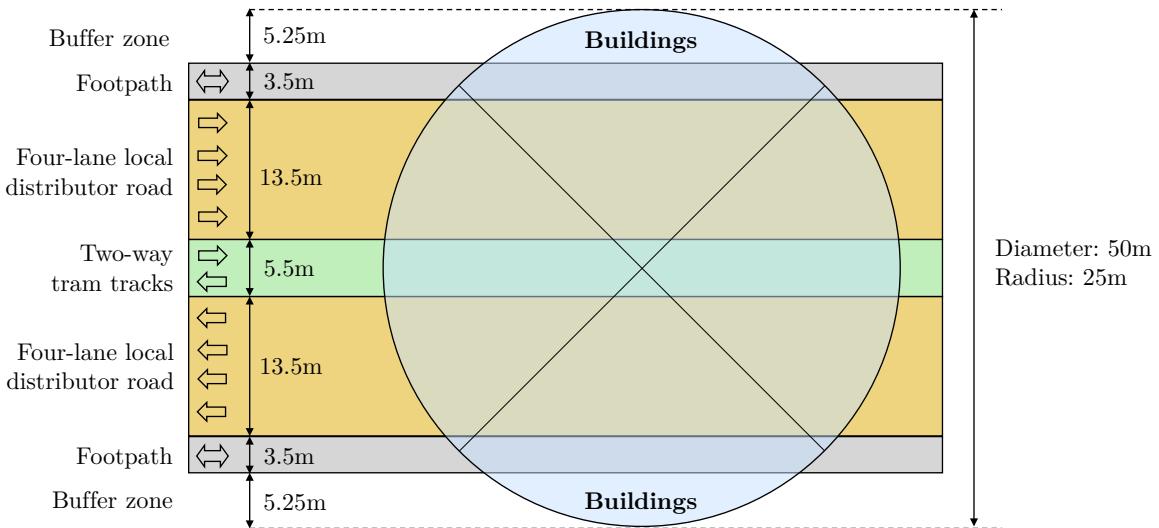
#### 3.2 Method of selecting buildings



**Map 2.** Example of the selection of buildings at the N24 transect. (Lands Department)

Intercardinal directions relative to the circle are not included because it has a high chance of not reaching a building when the interval is located at an intersection.

## Worst-case road hierarchy



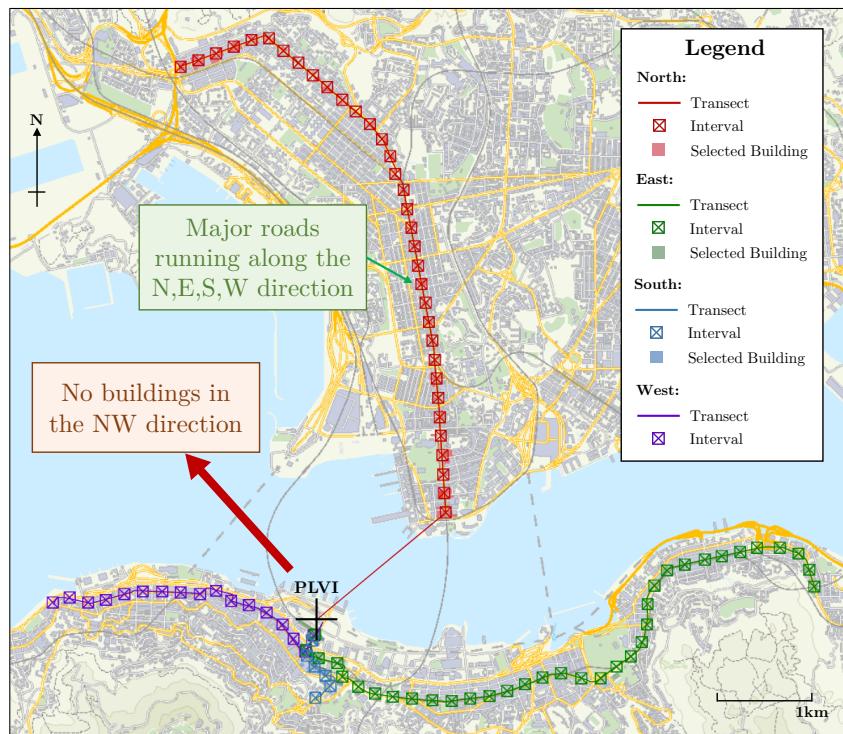
**Figure 9.** Justification on why a buffer of radius 25m is used. (Hong Kong Planning Standards and Guidelines)

| Type                          | Examples (if applicable)   | Reason  |
|-------------------------------|--|---|
| Schools                       |  | 24m height restriction ("Cap. 279, Section 84")   |
| Residential Care Homes        |  | 24m height restriction ("Cap. 459, Section 23")   |
| Construction Sites            |  | Inability to determine height   |
| Government-owned buildings    | Police stations, fire stations, ambulance depots, clinics, military barracks<br>Social welfare buildings, ancillary service buildings, libraries, post offices | Land is owned by the government   |
| Historical                    | Declared Monuments, Historic Buildings (defined by Antiques and Monuments Office)  | Legally preserved   |
| Recreational use              | Parks, playgrounds, zoos, gardens, sports centres, sports grounds  | designed with low building heights to maximise sense of "openness"                      |
| Transportation Infrastructure | Bus terminus, MTR stations, pier   | Essential infrastructure that directly improves citizen's physical and mental wellbeing |
| Hospitals                     |  |   |
| Religious buildings           | Churches, mosques, temples   |   |
| Exhibition Halls              | Museums  |   |
| Waste-treatment facilities    | Refuse or recyclable collection centres, sewage treatment facilities   | or  |
| Miscellaneous                 | electrical substations, broadcasting stations<br>Cemeteries, funeral parlours, visitor centres, petrol-filling stations  | Does not have financial incentive to build higher                                       |

**Table 1.** Buildings that are considered invalid.

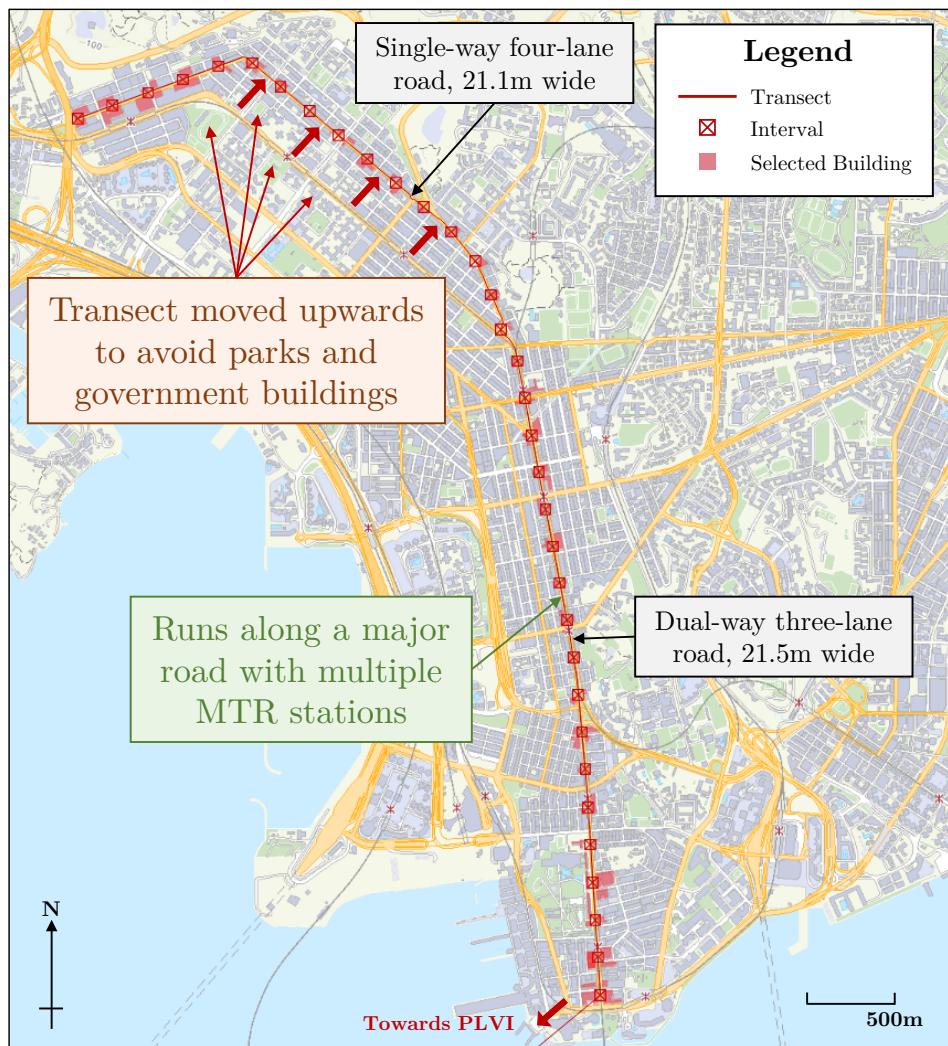
Buildings that fall under any category stated in Table 1 will be excluded.

### 3.3 Transects



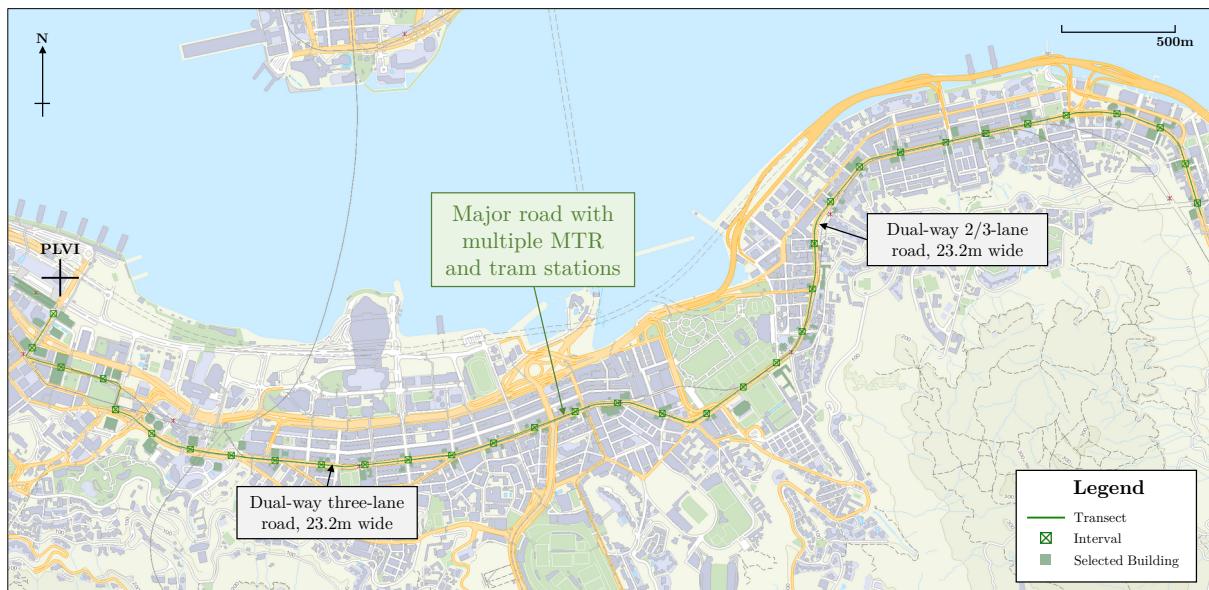
Map 3. Map of all four transects (Lands Department)

### 3.3.1 North Transect



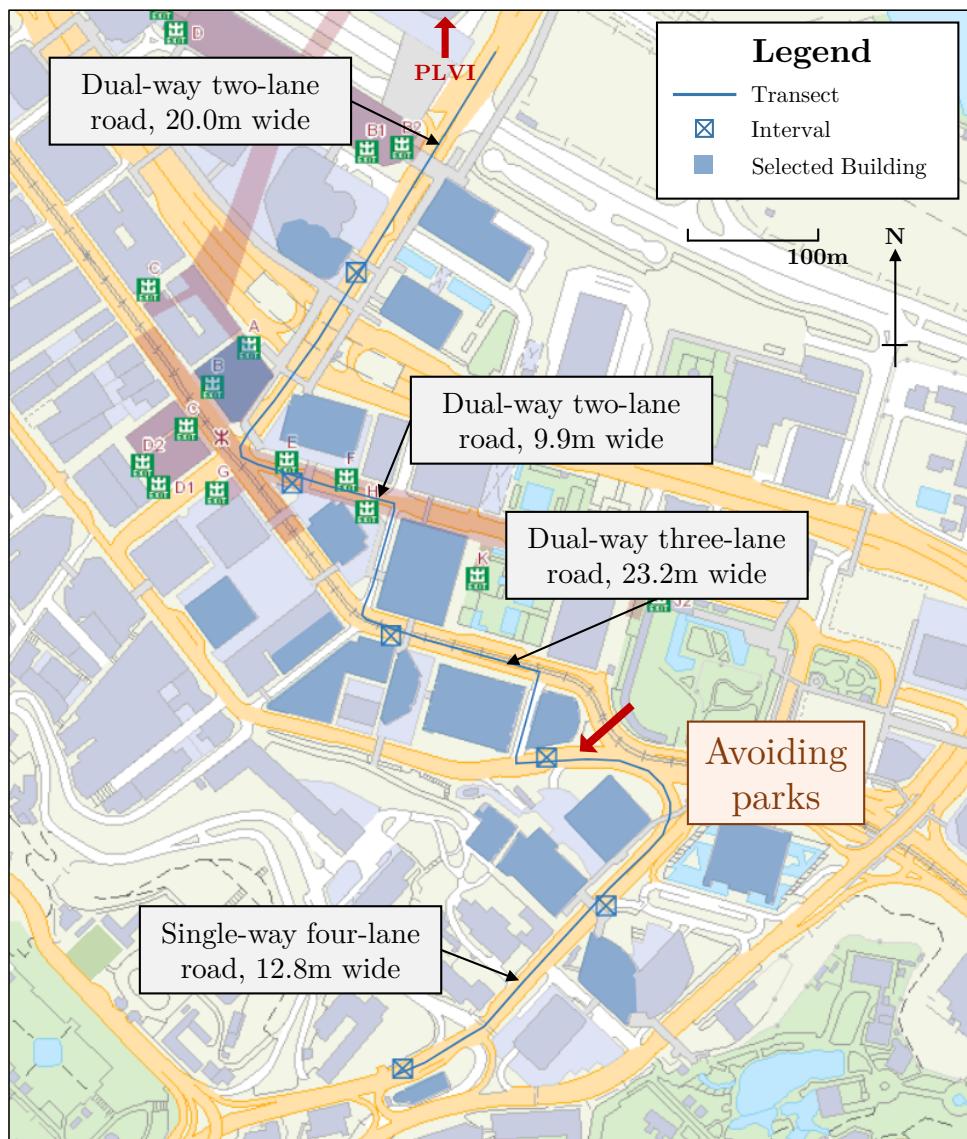
Map 4. Map of North transect (Lands Department; "HKMS 2.0")

### 3.3.2 East Transect



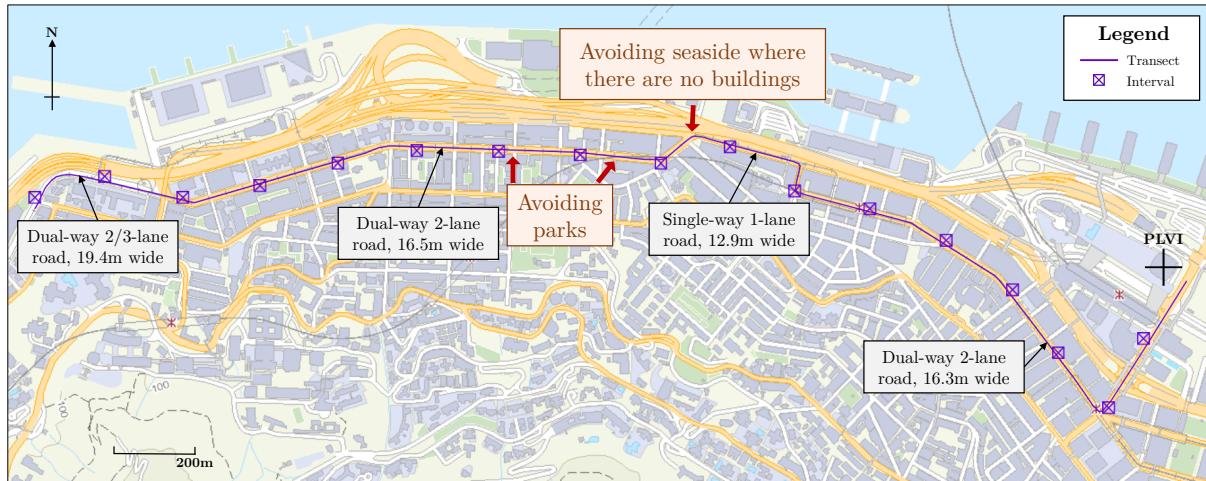
Map 5. Map of East transect (Lands Department; "HKMS 2.0")

### 3.3.3 South Transect



Map 6. Map of South transect (Lands Department; "HKMS 2.0")

### 3.3.4 West Transect



Map 7. Map of West transect (Lands Department; “HKMS 2.0”)

## 3.4 Statistical Analysis Methods

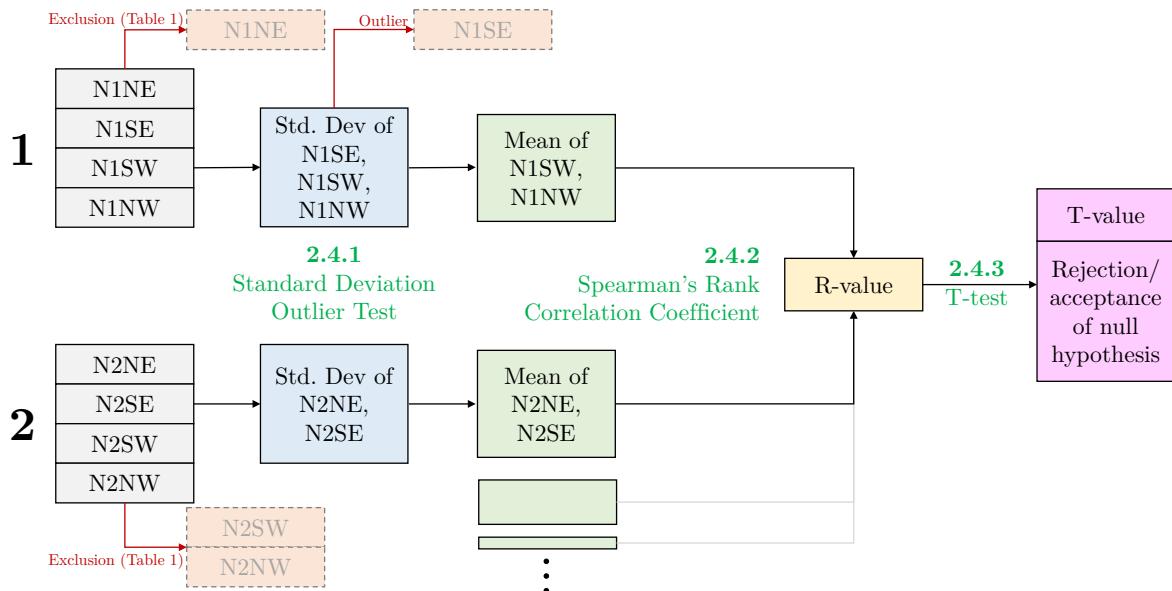


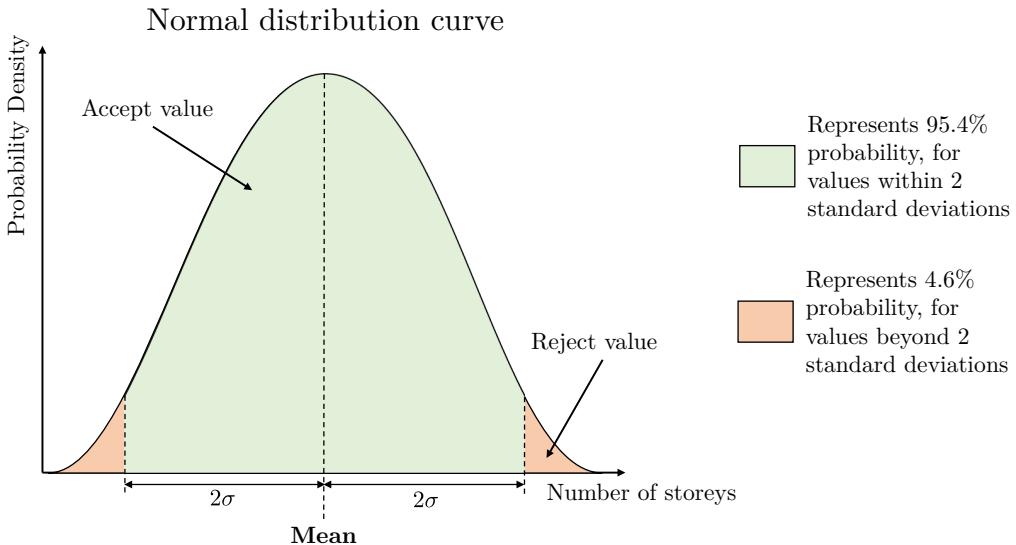
Figure 9. Overview of the general flow of data analysis.

### 3.4.1 Standard Deviation Outlier Test

To identify and remove outliers of data, the standard deviation of the four buildings must first be calculated:

$$\sigma = \sqrt{\frac{\sum(x - \bar{x})^2}{n}} \quad (3.4.1.1)$$

From Equation 3.4.1.1, values exceeding  $2\sigma$  from the mean ( $\bar{x}$ ) will be considered as an outlier, as shown below:



**Figure 10.** Determination of whether a value should be accepted or rejected based on the standard deviation.

### 3.4.2 Spearman's Rank Correlation Coefficient (SRCC) Test

A SRCC test is used to determine the magnitude of correlation between two variables. This is particularly useful in this study as it is insensitive to outliers and produces an accurate measure of correlation for non-linear relationships (Lovie).

The SRCC is given by:

$$R = 1 - \frac{6 \sum d^2}{n^3 - n} \quad (3.4.2.1)$$

where  $d = r(x) - r(y)$ , as detailed below:

| Distance from PLVI, $x$ | Rank by increasing order |              | In case of same ranks,<br>take its average | Difference, $d$                     | $d^2$       |
|-------------------------|--------------------------|--------------|--|-------------------------------------|-------------|
|                         | Rank of $x, r(x)$        | Storeys, $y$ |  |                                     |             |
| 0                       | 0                        | 69           | 5  | -5                                  | 25          |
| 200                     | 1                        | 58           | 3,4 3.5                                    | -2.5                                | 6.25        |
| 400                     | 2                        | 58           | 3,4 3.5                                    | -1.5                                | 2.25        |
| 600                     | 3                        | 47           | 2  | 1                                   | 1           |
| 800                     | 4                        | 36           | 1  | 3                                   | 9           |
|                         |                          |              |  | <b>Sum, <math>\Sigma d^2</math></b> | <b>43.5</b> |

**Figure 11.** A table for calculating  $\sum d^2$  from the distance from PLVI and the number of storeys.



**Figure 12.** A general interpretation of the correlation based on the SRCC.

### 3.4.3 T-test

To quantify the interpretation shown in Figure 12, and to judge whether the null hypothesis shall be rejected, the  $t$ -value must first be found:

$$t = R \sqrt{\frac{n-2}{1-R^2}} \quad (3.4.3.1)$$

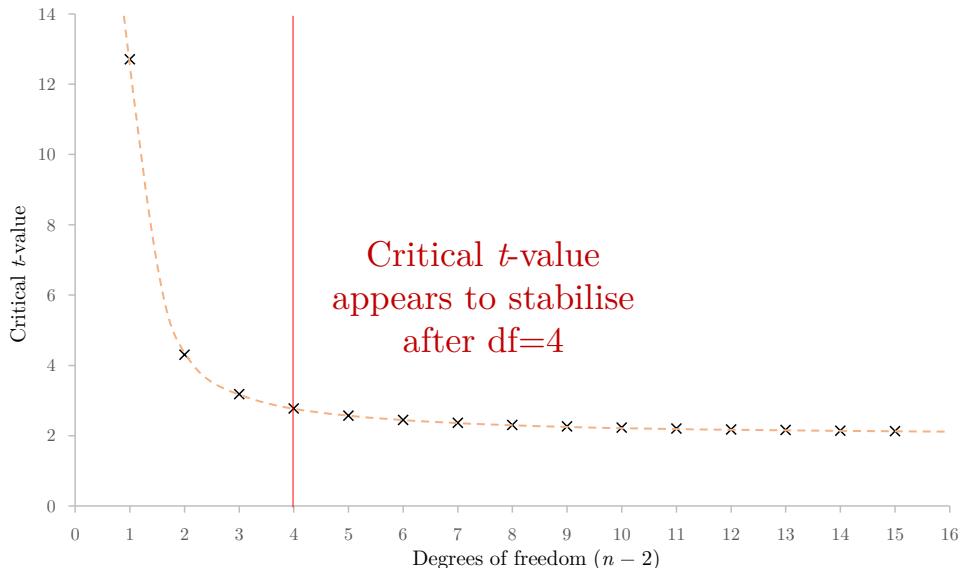
This  $t$ -value will then be checked against a  $t$ -table:

| Degrees of freedom (df) | Critical $t$ -value ( $\alpha = 0.05$ ) |
|-------------------------|---|
| 1                       | 12.706                                  |
| 2                       | 4.303                                   |
| 3                       | 3.182                                   |
| 4                       | 2.776                                   |
| 5                       | 2.571                                   |
| 6                       | 2.447                                   |
| 7                       | 2.365                                   |
| 8                       | 2.306                                   |

**Table 2.** A  $t$ -table for  $\alpha = 0.05$ .

If the  $t$ -value calculated is above the critical  $t$ -value, the null hypothesis should be rejected.

### 3.4.4 Justification of interval length



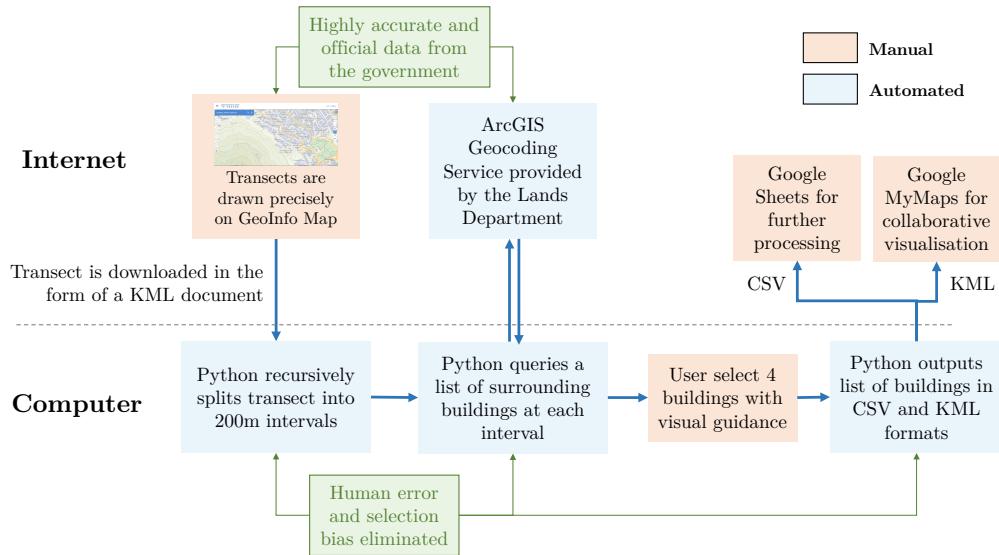
**Figure 13.** A plot of the critical  $t$ -value against the degrees of freedom for  $\alpha = 0.05$ .

For the data to be statistically significant, its  $t$ -value must be sufficiently low. From Figure 13, this starts to happen when  $df \geq 4$ , meaning that at least 6 samples will be needed.

According to Centadata, only 6.34% of buildings are located above 100m AMSL, therefore, when connecting a line from the PLVI and to its first contact with a 100m contour line, its

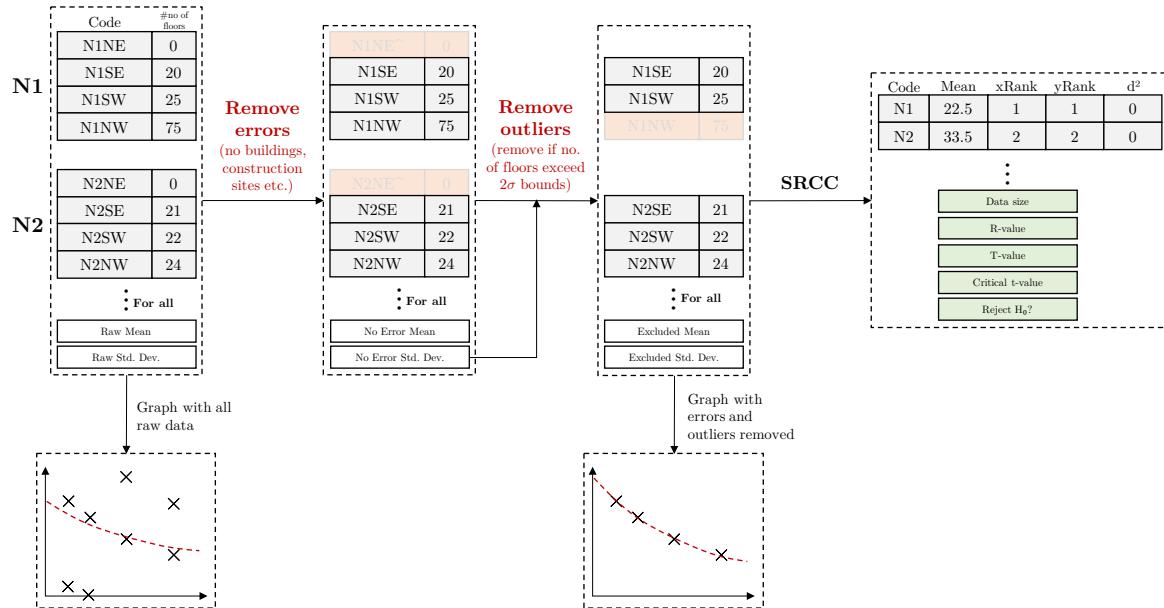
distance is 1.15km. Hence, the maximum interval distance is  $\frac{1150}{6} = 191.6$ m, therefore, a 200m interval is chosen.

### 3.5 Secondary Data Gathering Techniques



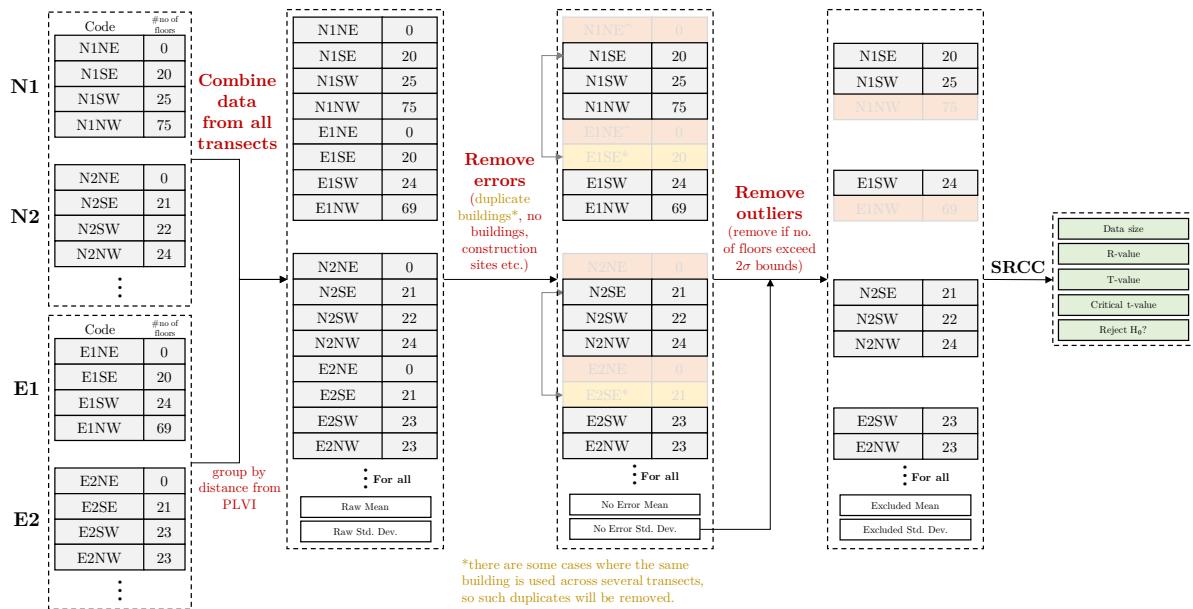
**Figure 14.** A flowchart describing the process of selecting buildings with the help of automation, mainly using Python, a programming language. (“HKMS 2.0”)

### 3.6 Calculation of Individual Transects



**Figure 15.** A flowchart outlining the general process of calculating data for the individual transects.

### 3.7 Calculation of Combined Transects



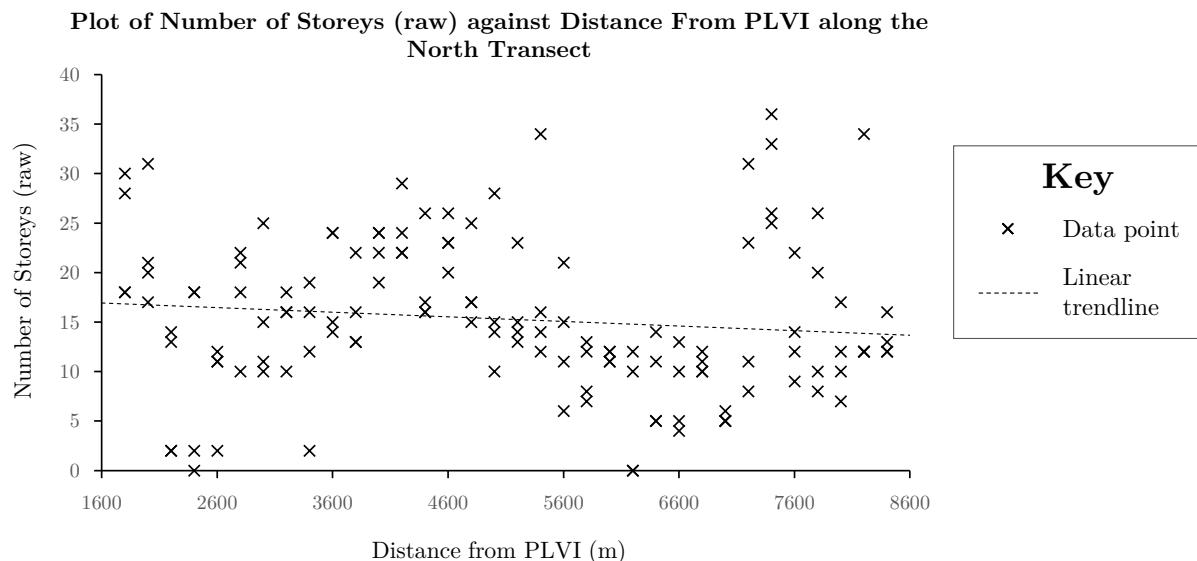
**Figure 10.** A flowchart outlining the general process of calculating data for the combined transects.

## 4 Data Presentation

All raw and processed data in a tabular format can be found in Appendix 9.1. A scatter graph showing all data points have been used, as it allows the identification of outliers to be easy. To aid with the process of data interpretation, a linear line of best fit has also been added to the scatter graph to better highlight the correlation between the two variables.

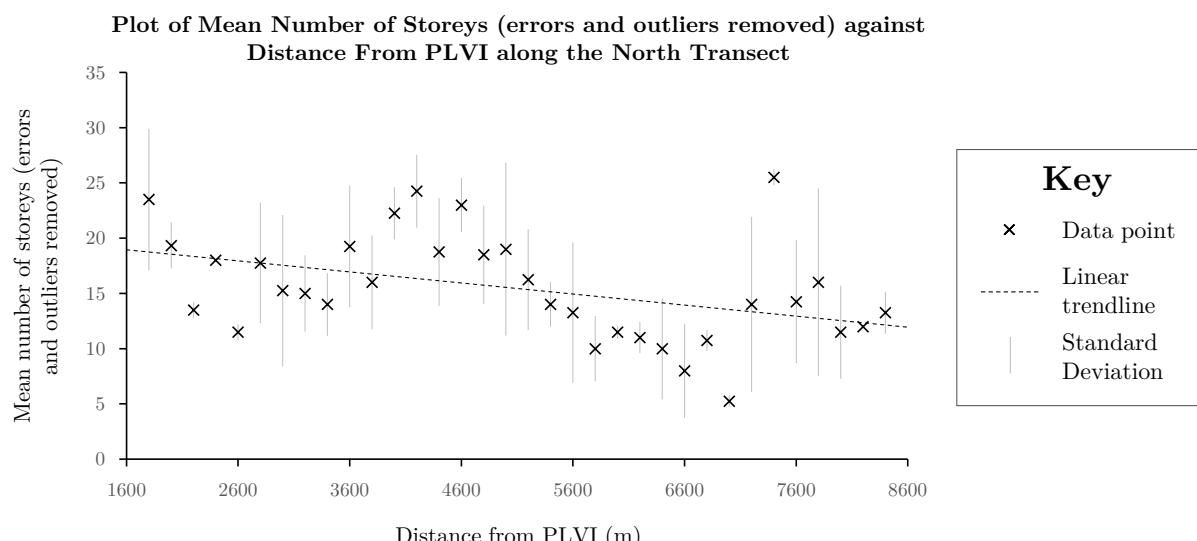
### 4.1 North Transect

#### 4.1.1 Raw Data Graph



**Figure 15.** A scatter plot of the raw number of storeys against the distance from the PLVI, along the north transect.

#### 4.1.2 Processed Data Graph



**Figure 16.** A scatter plot of the mean number of storeys, with errors and outliers removed, against the distance from the PLVI, along the north transect.

#### 4.1.3 Summary Data Table

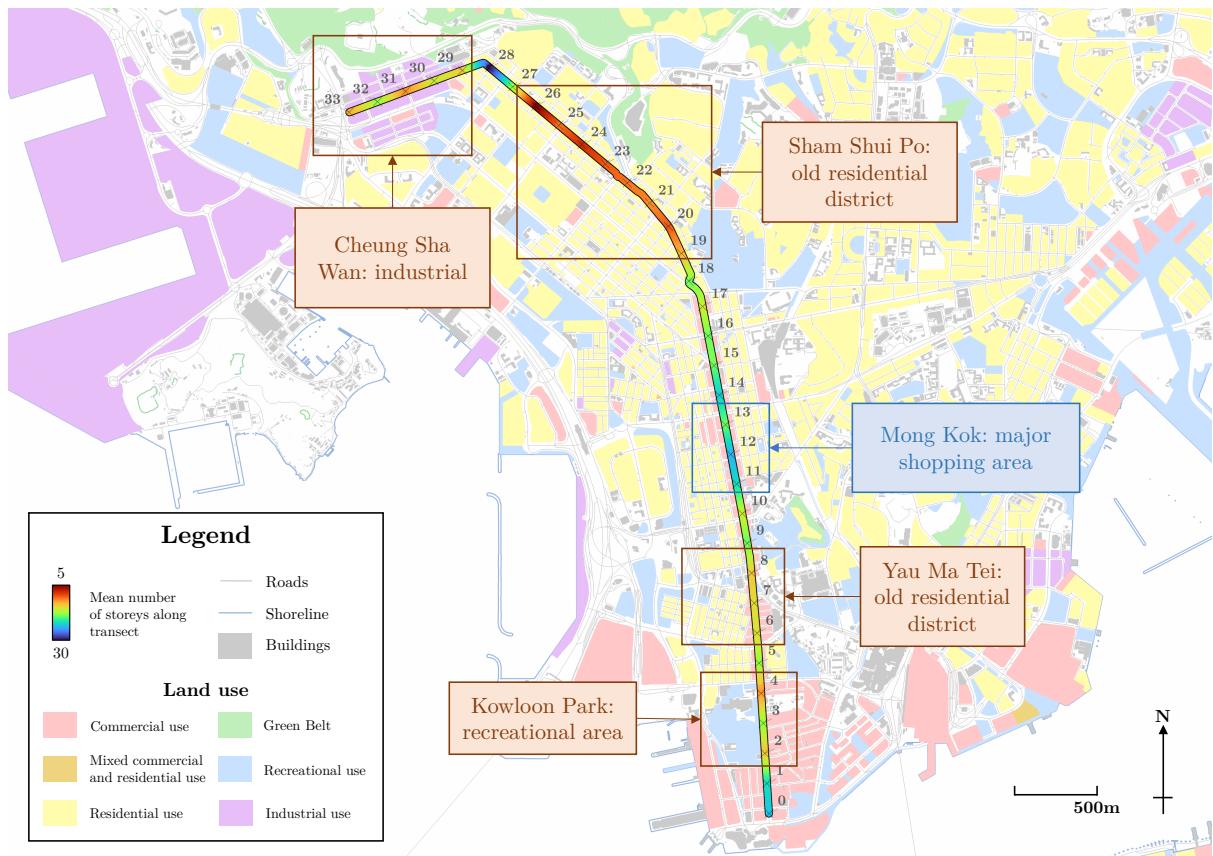
|   |         |
|---|---------|
| Mean number of storeys (Raw)                                    | 15.29   |
| Standard Deviation of Number of storeys (Raw)                   | 7.73    |
| Mean number of storeys (No Errors)                              | 16.33   |
| Standard Deviation of Number of storeys (No Errors)             | 7.086   |
| Upper range of number of storeys (No Errors)                    | 15.47   |
| Lower range of number of storeys (No Errors)                    | 6.111   |
| Mean number of storeys (No Errors or Outliers)                  | 30.50   |
| Standard Deviation of number of storeys (No Errors or Outliers) | 2.159   |
| R-value   | -0.4566 |
| t-value   | 2.903   |
| Critical t-value  | 2.037   |
| t-value > critical t-value / whether to reject $H_0$            | Yes     |

Indicates moderate negative correlation

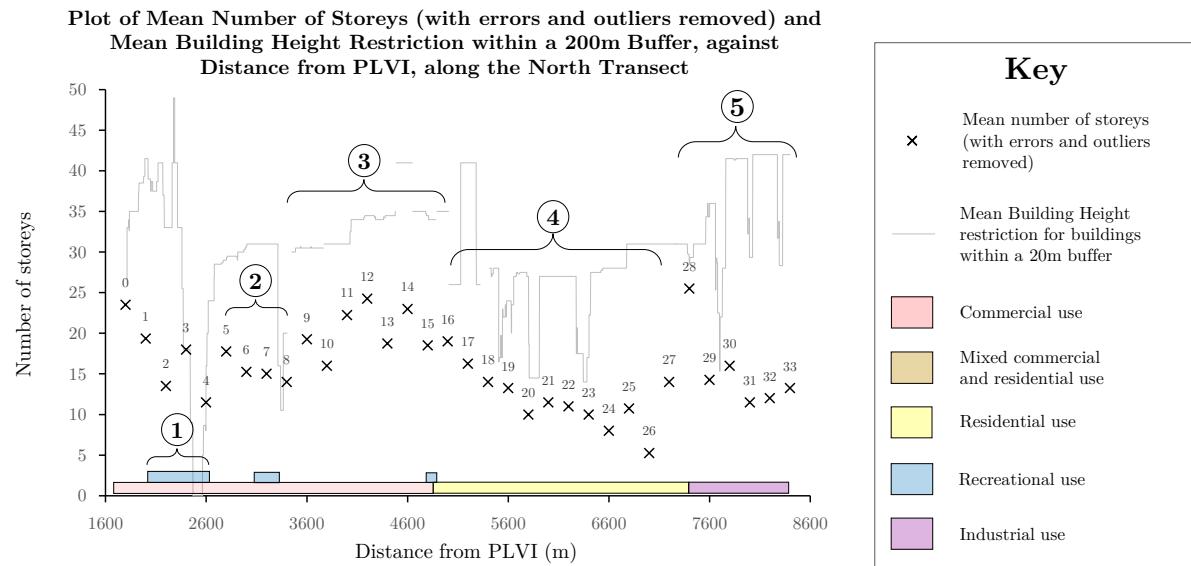
*t*-value lower than critical *t*-value, hence null hypothesis rejected

**Table 3.** Summary table of calculated values for the North Transect.

#### 4.1.4 Land Use Zoning



**Map 8.** Map of the North Transect (Hong Kong Geodata Store, Planning Department).



**Figure 17.** A scatter plot of the mean number of storeys, with errors and outliers removed and the mean building height restriction with a 200m buffer, against the distance from the PLVI, along the North transect. (Lands Department, Planning Department)

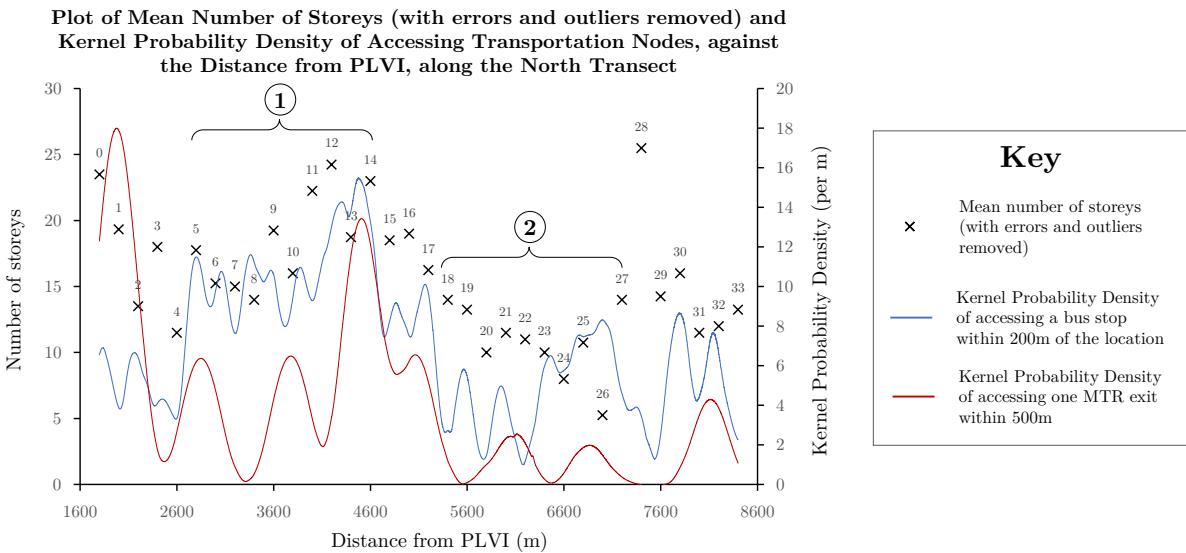
In Figure 17, the land use generally transitions from commercial use, with a greater building height, to residential use, with a lower building height, similar of the Burgess Model.

Since ③ is a major shopping area, it attracts many commercial businesses, raising the land competition and resulting in a secondary PLVI.

Anomalies include:

- ①, which is adjacent to recreational areas such as Kowloon Park that are designed specifically with low building height to maximise the sense of greenery.
- As redevelopment works is a time-consuming process, old residential neighbourhoods such as ② and ④ remain with low building heights.
- As industrial areas require large working areas, it often leads to slightly taller buildings, as observed in ⑤.

#### 4.1.5 Transport

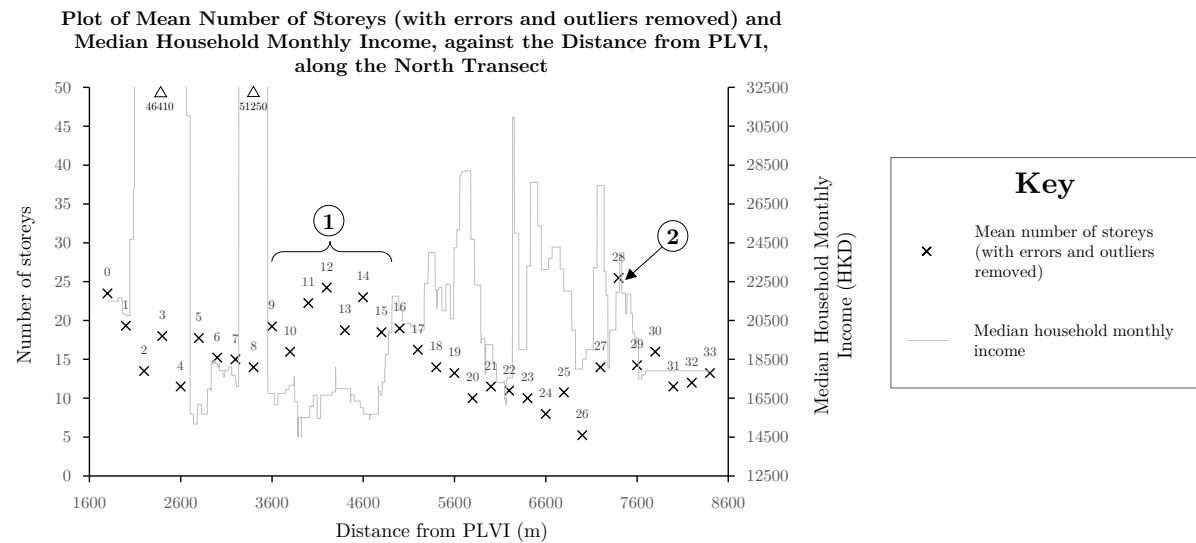


**Figure 18.** A scatter plot of the mean number of storeys, with errors and outliers removed and the kernel probability density of accessing transport nodes, against the distance from the PLVI, along the North transect. (Lands Department)

In ①, the accessibility to bus stops and MTR exits are exceptionally high. The height of the buildings are also very high, which can be explained by the fact that shopping centres and commercial complexes in the Mong Kok area attracts and generates large amounts of traffic, including office workers, tourists and residents.

Conversely, as the distance from the PLVI increases, the transport accessibility decreases, as shown in ②. Hence, the data above generally fits the Burgess Model, where areas further from the PLVI likely will experience poorer accessibility.

#### 4.1.6 Socio-economic



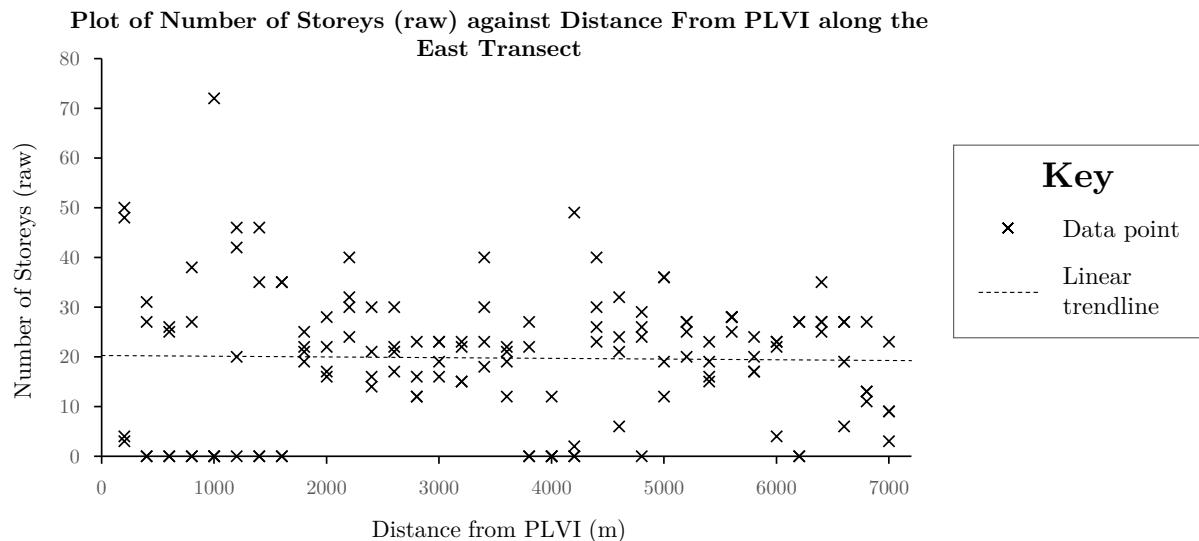
**Figure 19.** A scatter plot of the mean number of storeys, with errors and outliers removed and the median household monthly income, against the distance from the PLVI, along the North transect.  
(Census and Statistics Department)

In ①, although buildings are generally high, the household income is observed to be low. This can be explained in Map 8, where the commercial area is mainly built along the Nathan Road, where accessibility is high, and surrounded by older residential buildings. This possesses a highly similar trait to the Hoyt Model, where industrial and commercial buildings are built along a major transport link, and low-class residential areas surround them.

At ②, the spike in household income closely matches with the anomaly in building height, which can be explained by gentrification, improving the quality of life, household income and ultimately the land value.

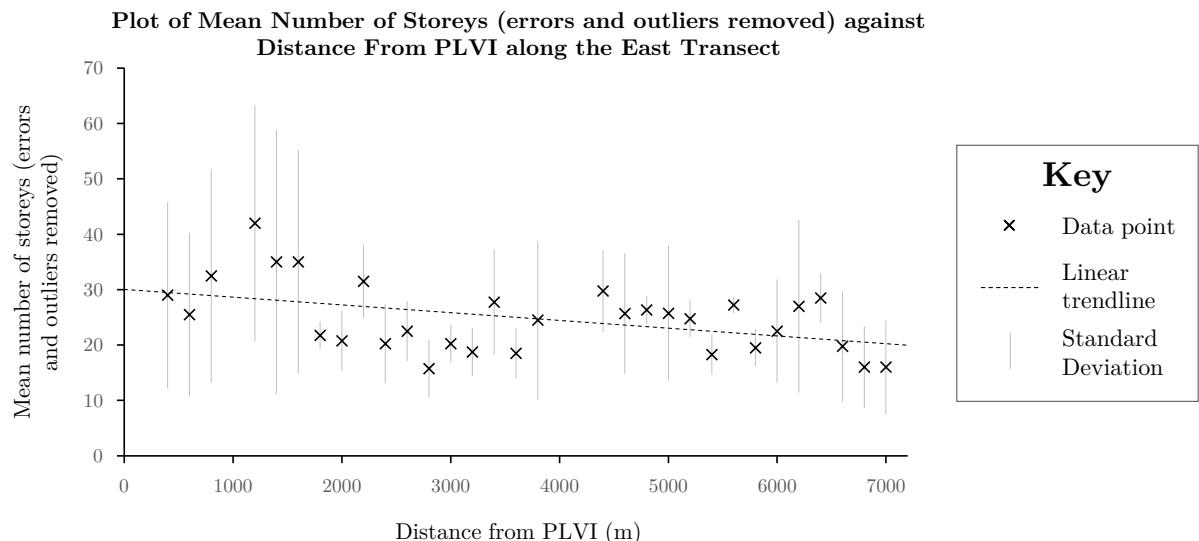
## 4.2 East Transect

### 4.2.1 Raw Data Graph



**Figure 20.** A scatter plot of the raw number of storeys against the distance from the PLVI, along the east transect.

### 4.2.2 Processed Data Graph



**Figure 21.** A scatter plot of the mean number of storeys, with errors and outliers removed, against the distance from the PLVI, along the east transect.

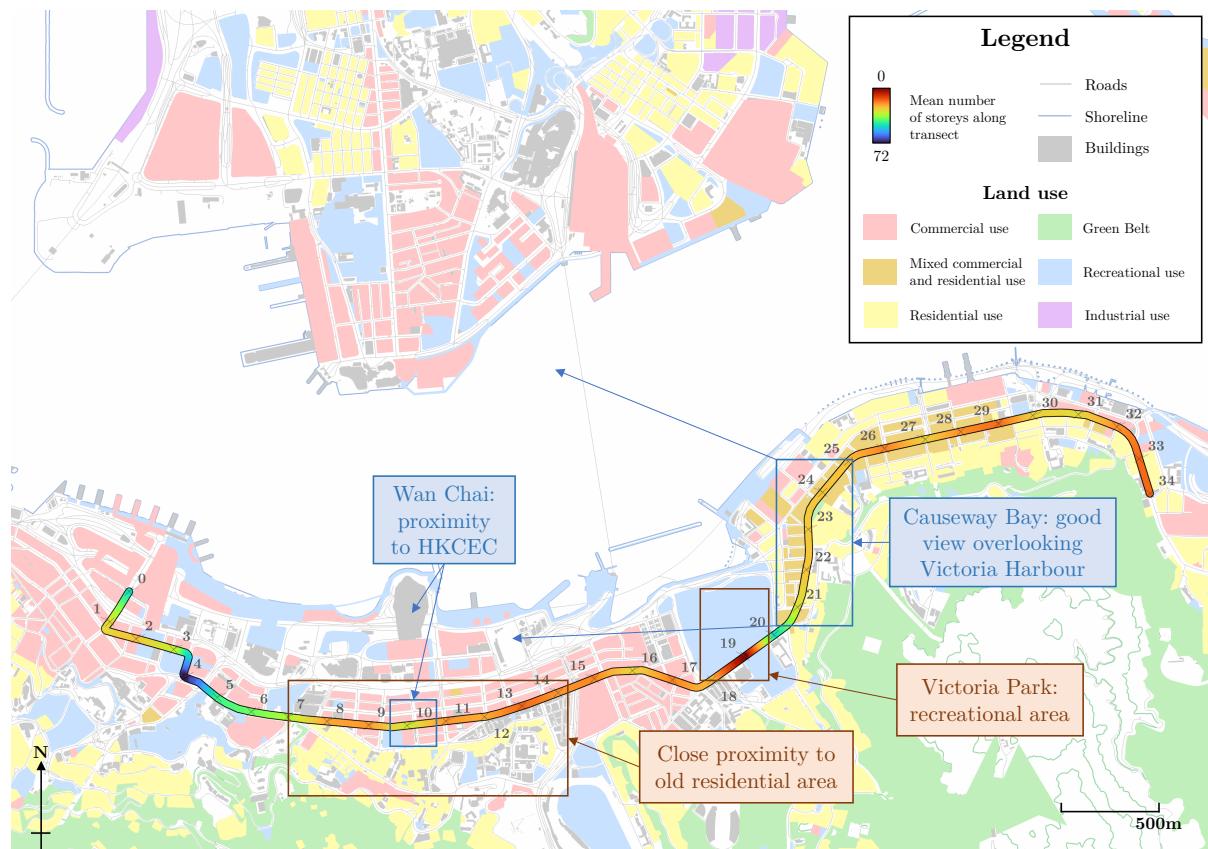
#### 4.2.3 Summary Data Table

|   |         |
|---|---------|
| Mean number of storeys (Raw)                                    | 19.88   |
| Standard Deviation of Number of storeys (Raw)                   | 13.25   |
| Mean number of storeys (No Errors)                              | 24.96   |
| Standard Deviation of Number of storeys (No Errors)             | 10.07   |
| Upper range of number of storeys (No Errors)                    | 23.55   |
| Lower range of number of storeys (No Errors)                    | 7.273   |
| Mean number of storeys (No Errors or Outliers)                  | 45.11   |
| Standard Deviation of number of storeys (No Errors or Outliers) | 4.81    |
| R-value   | -0.4254 |
| t-value   | 2.531   |
| Critical t-value  | 2.045   |
| t-value > critical t-value / whether to reject H <sub>0</sub>   | Yes     |

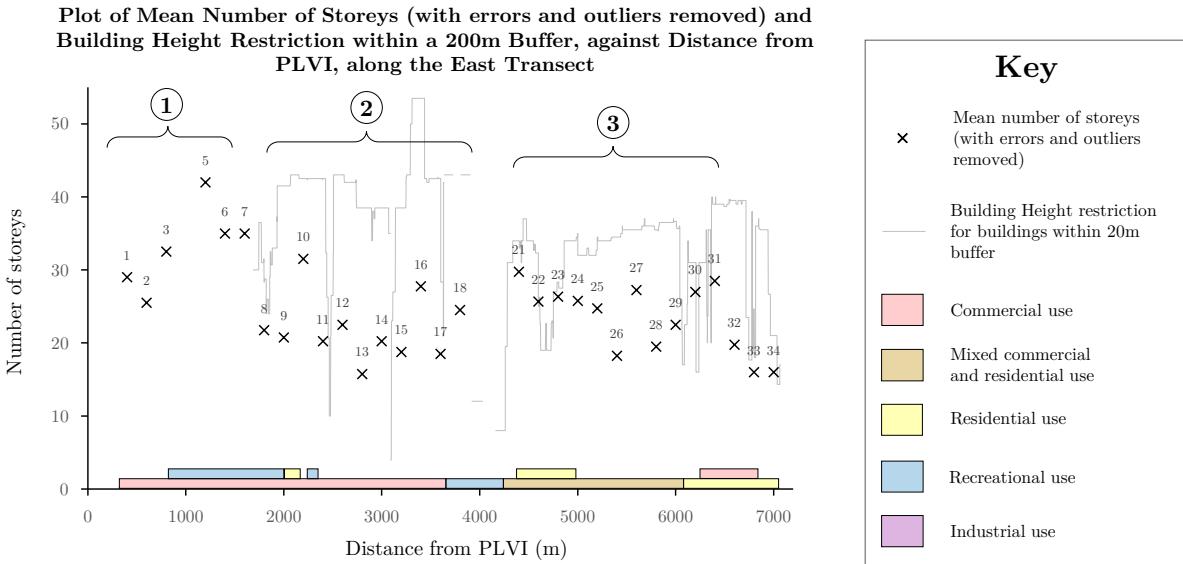
Indicates moderate negative correlation  
t-value lower than critical t-value, hence null hypothesis rejected

Table 4. Summary table of calculated values for the East Transect.

#### 4.2.4 Land Use Zoning



Map 9. Map of the east transect (Hong Kong Geodata Store, Planning Department).



**Figure 22.** A scatter plot of the mean number of storeys, with errors and outliers removed and the mean building height restriction with a 200m buffer, against the distance from the PLVI, along the East transect. (Lands Department, Planning Department)

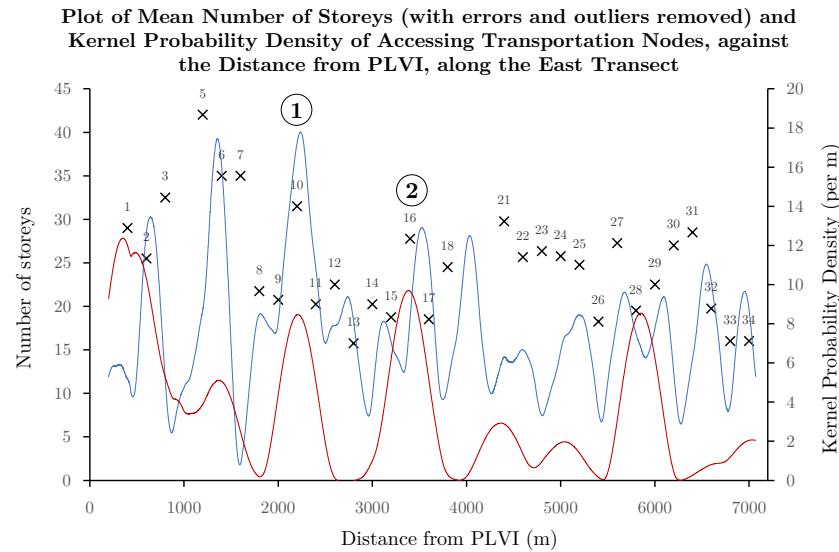
In ①, as there are no building height restrictions, large transnational companies and enterprises have a large benefit to build tall buildings to increase their profits.

In ②, as the distance from the PLVI increases, the competition for space decreases, leading to lower building heights. In addition, as demonstrated in Map 9, because of the close proximity to an old residential area, land estate developers may view the area as an impoverished area, hence dropping the land value of the area.

However, in ②, the building height is slightly taller. As outlined in Map 9, these residential buildings have a good overlooking view of the Harbour, attracting land estate developers to construct taller buildings to gain a better view, in order to earn more rent.

Overall, due to the shift in land use from heavily contested commercial areas to residential areas, as predicted by the Burgess model, a significant negative correlation between the building height and distance has been observed.

#### 4.2.5 Transport

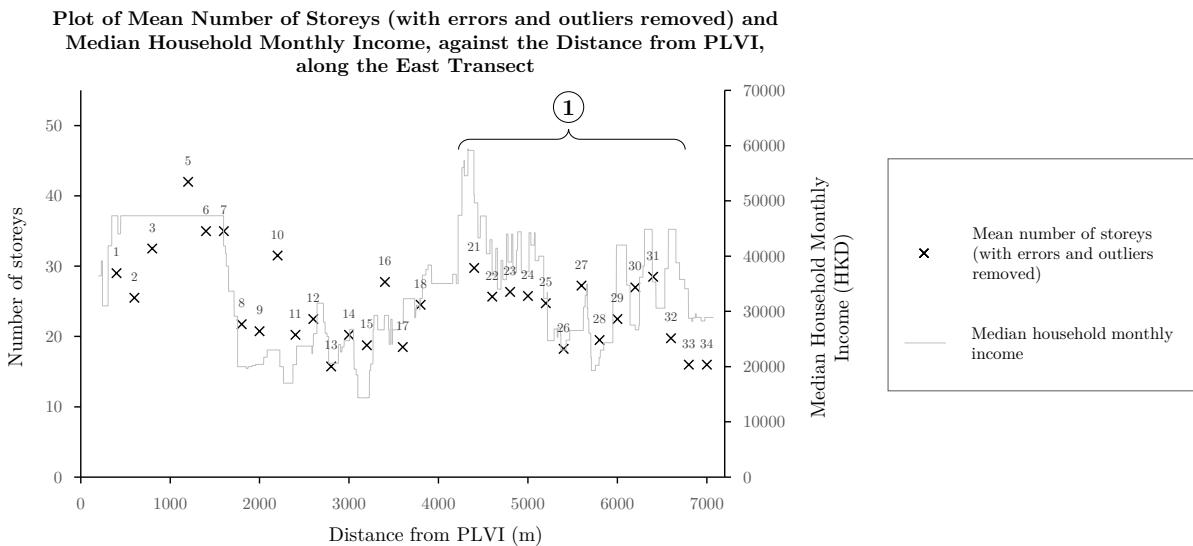


**Figure 23.** A scatter plot of the mean number of storeys, with errors and outliers removed and the kernel probability density of accessing transport nodes, against the distance from the PLVI, along the East transect. (Lands Department)

As seen from above, the accessibility of MTR exits and bus stops generally matches with the building height. This explains some anomalies in building heights, especially at ① and ②. At ①, it is in close proximity to the Hong Kong Conventional Exhibition Centre, which often hosts domestic and international large-scale events. In order to cope with large influxes of movements, the area has a very high accessibility, raising the land value and increasing the building height. Similarly, as multiple high-volume buildings such as department stores are located at ②, the clustering of transport infrastructure occurs, again raising the land value.

However, as the distance increases, the accessibility generally decreases along with the building height, hence supporting the distance decay concept of the Burgess model.

#### 4.2.6 Socio-economic

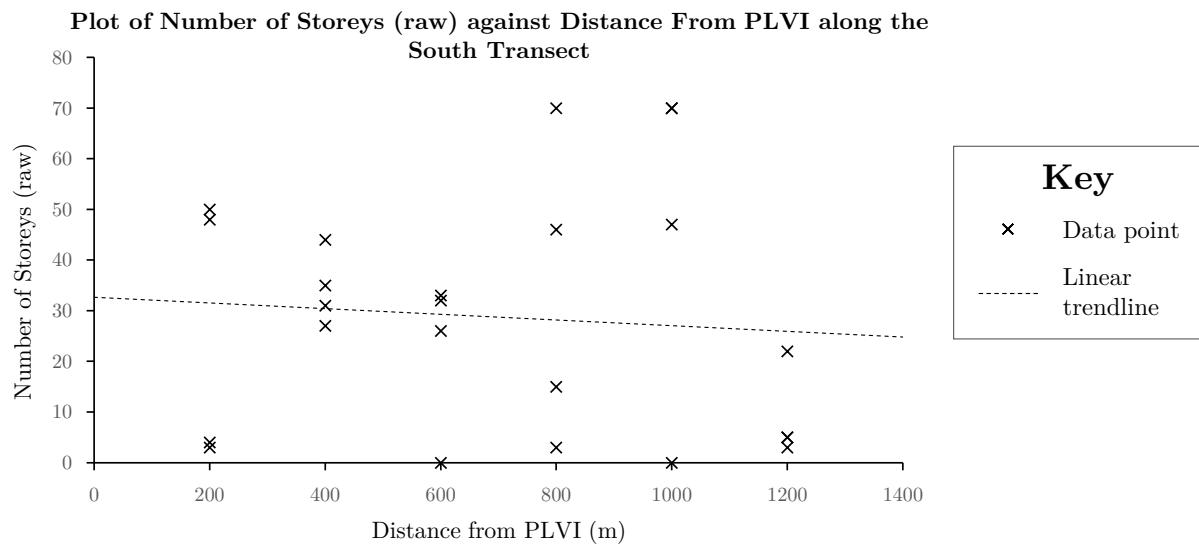


**Figure 24.** A scatter plot of the mean number of storeys, with errors and outliers removed and the median household monthly income, against the distance from the PLVI, along the East transect.  
(Census and Statistics Department)

In ①, both the monthly income and the building height decreases steadily. As the distance from the PLVI increases, the availability of space at a lower price is increasingly abundant. Hence, people with less income are more likely to sacrifice accessibility for lower prices and reside farther from the PLVI. As seen from the graph, this phenomenon is significant, supporting the bid-rent theory.

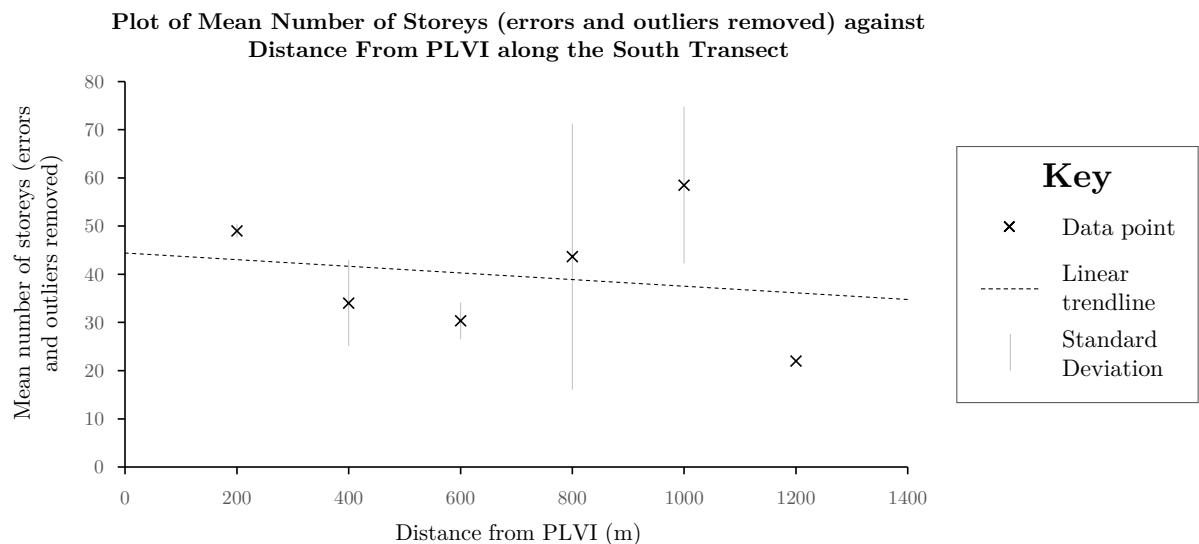
## 4.3 South Transect

### 4.3.1 Raw Data Graph



**Figure 25.** A scatter plot of the raw number of storeys against the distance from the PLVI, along the south transect.

### 4.3.2 Processed Data Graph



**Figure 26.** A scatter plot of the mean number of storeys, with errors and outliers removed, against the distance from the PLVI, along the south transect.

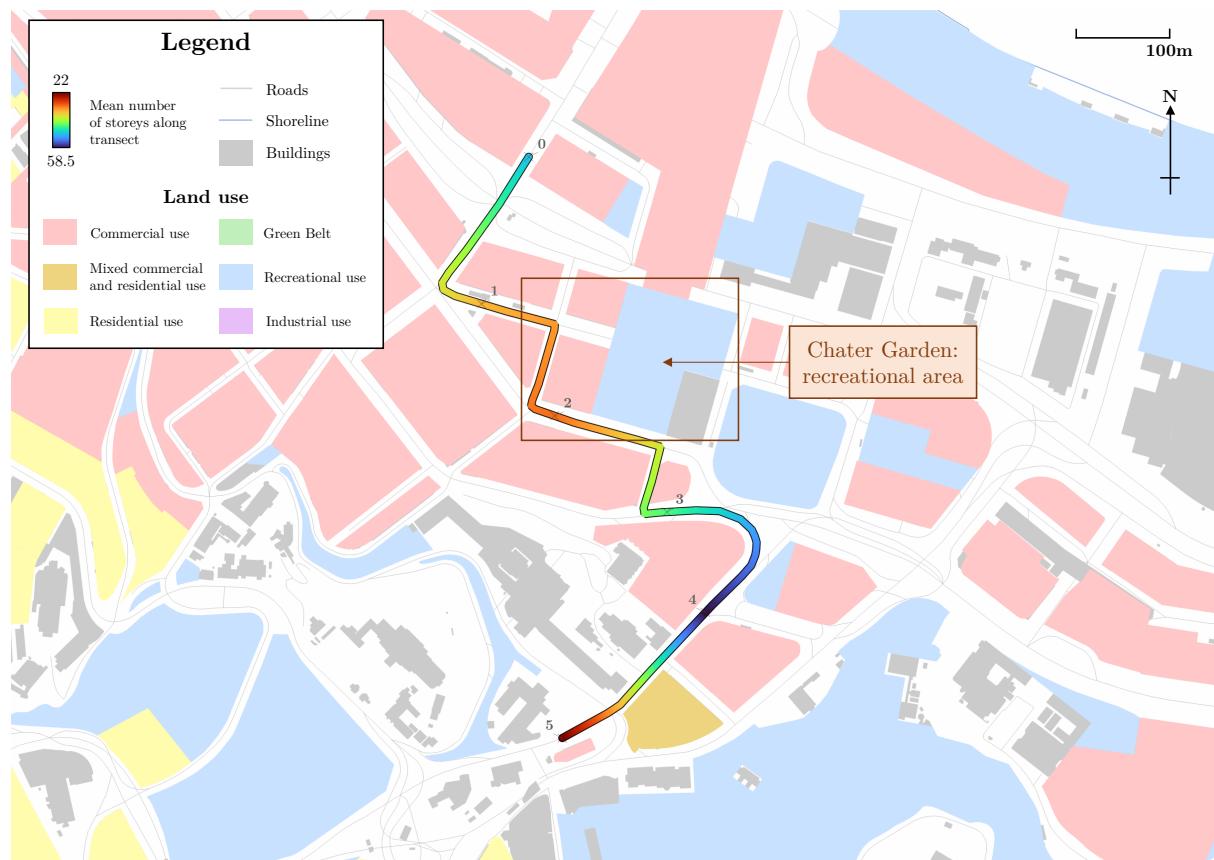
### 4.3.3 Summary Data Table

|  |         |
|--|---------|
| Mean number of storeys (Raw)   | 28.71   |
| Standard Deviation of Number of storeys (Raw)                        | 23.30   |
| Mean number of storeys (No Errors)                                   | 40.07   |
| Standard Deviation of Number of storeys (No Errors)                  | 16.58   |
| Upper range of number of storeys (No Errors)                         | 40.07   |
| Lower range of number of storeys (No Errors)                         | 16.58   |
| Mean number of storeys (No Errors or Outliers)                       | 73.23   |
| Standard Deviation of number of storeys (No Errors or Outliers)      | 6.91    |
| R-value  | -0.2571 |
| t-value  | 0.5322  |
| Critical t-value   | 2.776   |
| <i>t</i> -value > critical <i>t</i> -value / whether to reject $H_0$ | No      |

Indicates weak negative correlation  
*t*-value lower than critical *t*-value, hence null hypothesis accepted

**Table 5.** Summary table of calculated values for the South Transect.

### 4.3.4 Land Use Zoning

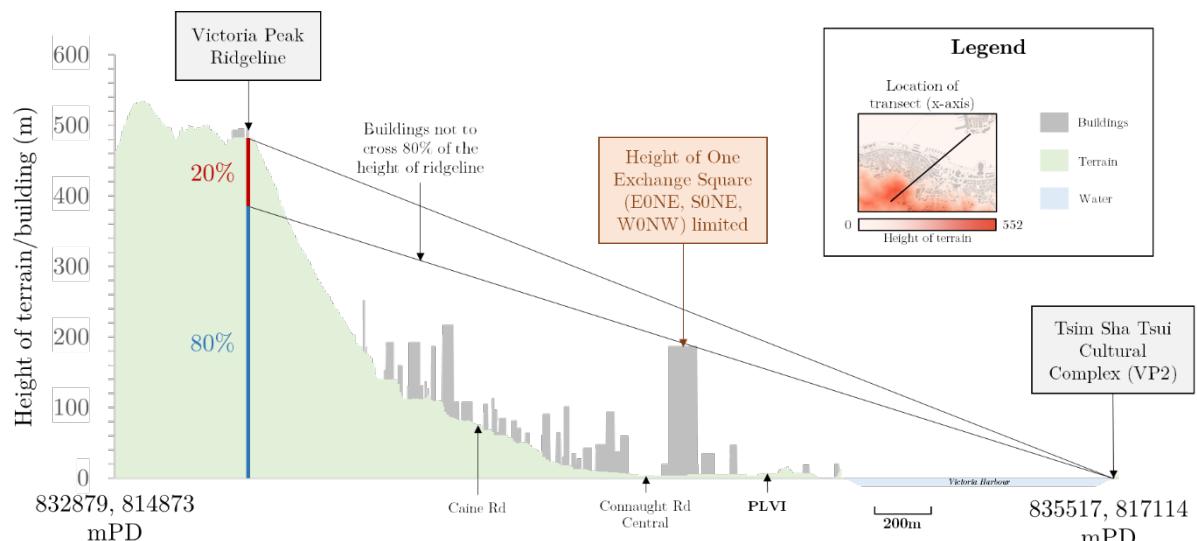


**Map 10.** Map of the south transect (Hong Kong Geodata Store, Planning Department).

Due to the lack of buildings on the mountainous terrain south of the transect, the length of the transect is severely limited. Because of insufficient data, the magnitude of correlation will be unreliable, therefore a detailed analysis of the area from a transportation and socio-economic perspective will not be performed.

Regardless, S2 is adjacent to Charter Garden, which is an area for open space and greenery. According to the Hong Kong Planning Standards and Guidelines (HKPSG), new developments surrounding the area should “integrate” with the greenery to provide adequate air circulation and breathability, causing areas around open spaces to generally have lower building heights.

Additionally, S5 is adjacent to the Former French Mission Building, which is a historical monument protected by law that prevents any alterations to the building. In order to protect the setting of the historical monument, new developments are also required to “lower” and “respect” the building height of the surrounding historical monument (HKPSG), leading areas around it to have lower building heights.



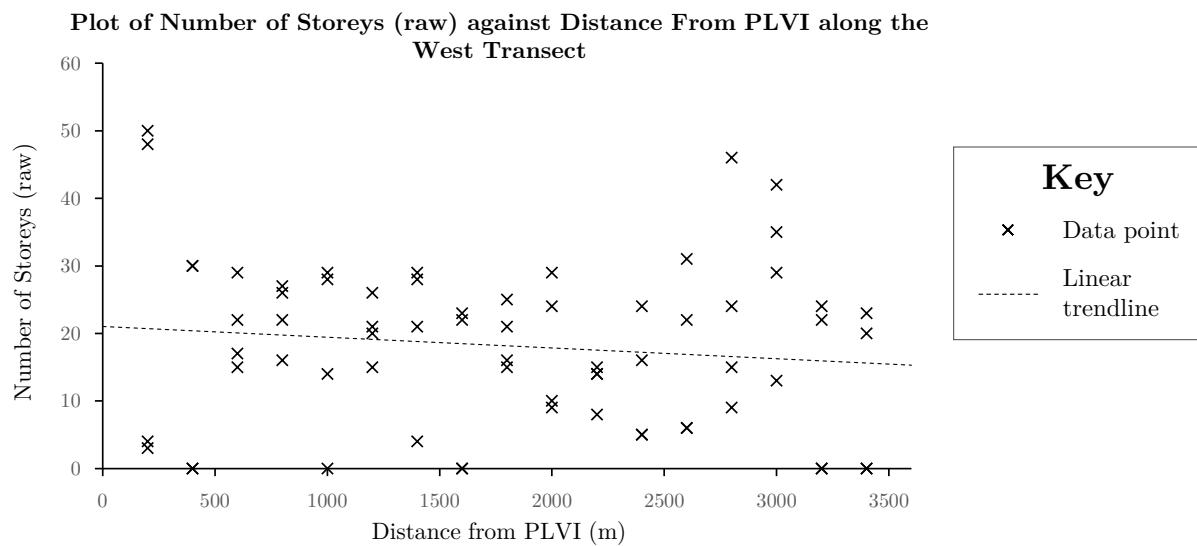
**Figure []**. A depiction of topography and urban design guidelines being a limiting factor to horizontal sprawl. (RMJM Limited and Planning Department, Lands Department)

Additionally, as the HKPSG states, buildings must not rise above 80% of the height of specific ridgelines to maintain a good visual appearance at specific vantage points. As depicted by Figure [], as the height restriction prevents buildings from rising above a specified level, it may have reduced the magnitude of the correlation, affecting the results.

Although it can be said that it is unsuitable for buildings and transportation infrastructure to be built on the steep gradient southward, and hence lead to the prevention of urban sprawl and hence lower building height, due to the small sample size and the large variability of the data, the null hypothesis is accepted.

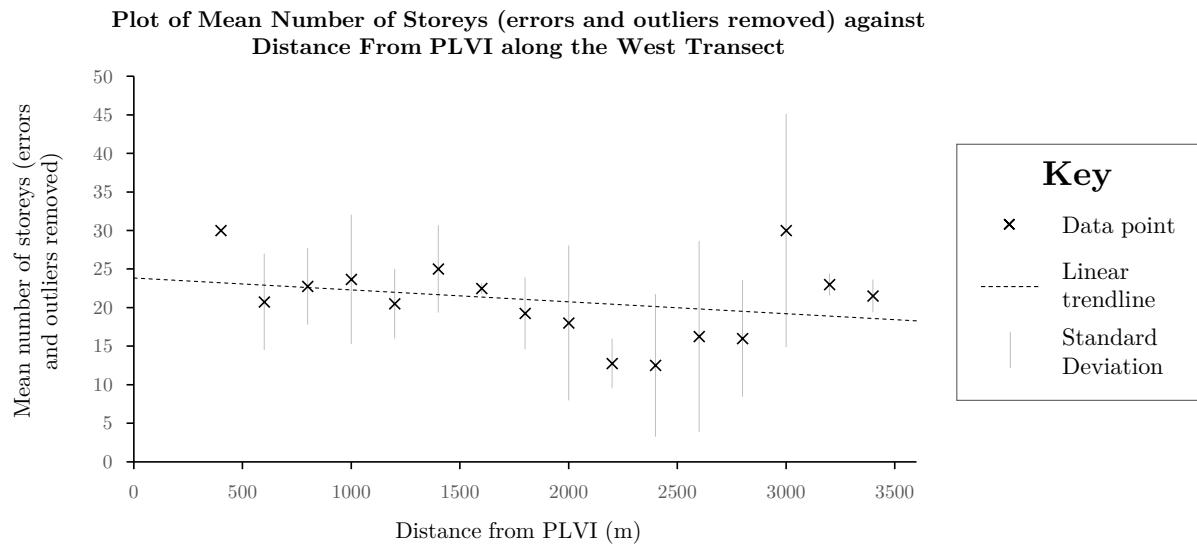
## 4.4 West Transect

### 4.4.1 Raw Data Graph



**Figure 2.** A scatter plot of the raw number of storeys against the distance from the PLVI, along the west transect.

### 4.4.2 Processed Data Graph



**Figure 29.** A scatter plot of the mean number of storeys, with errors and outliers removed, against the distance from the PLVI, along the west transect.

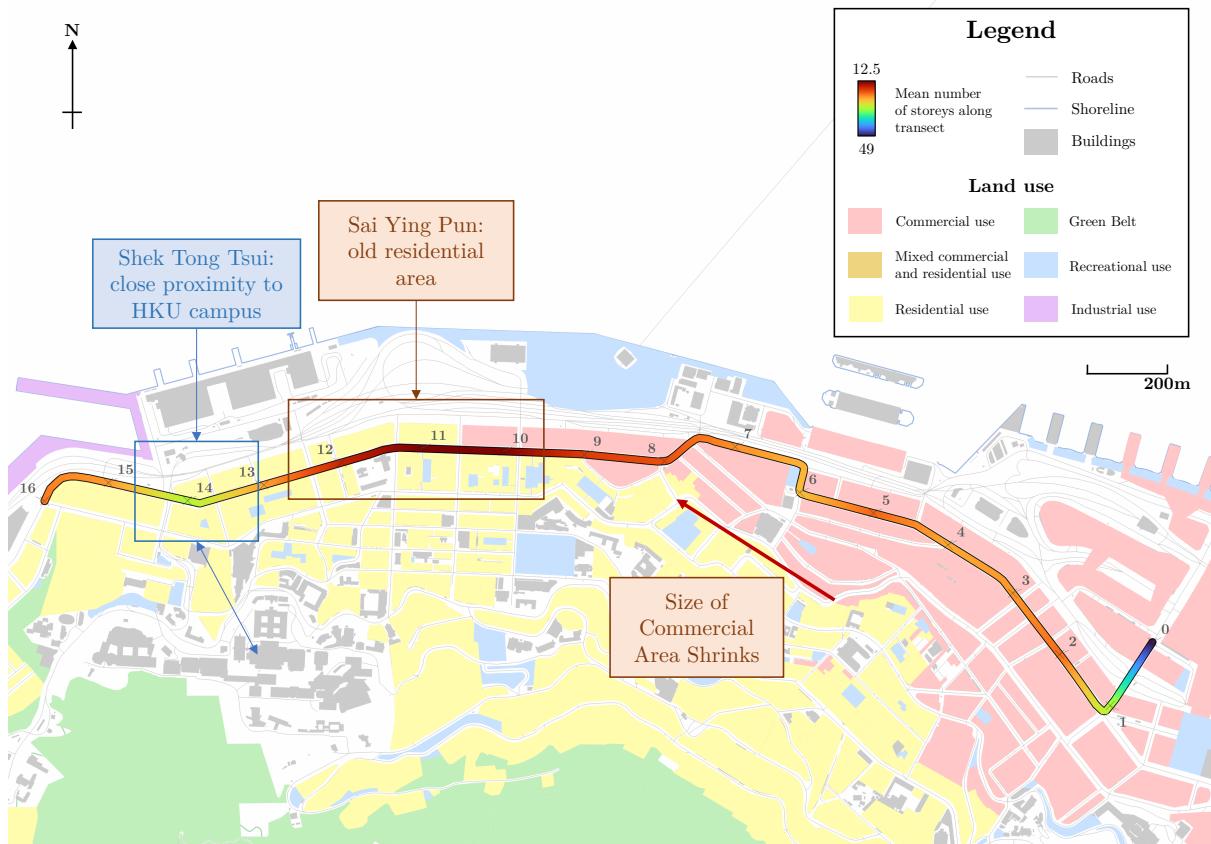
#### 4.4.3 Summary Data Table

|  |         |
|--|---------|
| Mean number of storeys (Raw)   | 18.18   |
| Standard Deviation of Number of storeys (Raw)                        | 12.23   |
| Mean number of storeys (No Errors)                                   | 21.63   |
| Standard Deviation of Number of storeys (No Errors)                  | 10.24   |
| Upper range of number of storeys (No Errors)                         | 20.08   |
| Lower range of number of storeys (No Errors)                         | 8.168   |
| Mean number of storeys (No Errors or Outliers)                       | 42.10   |
| Standard Deviation of number of storeys (No Errors or Outliers)      | 1.16    |
| R-value  | -0.2890 |
| t-value  | 1.129   |
| Critical t-value   | 2.145   |
| <i>t</i> -value > critical <i>t</i> -value / whether to reject $H_0$ | No      |

Indicates weak negative correlation

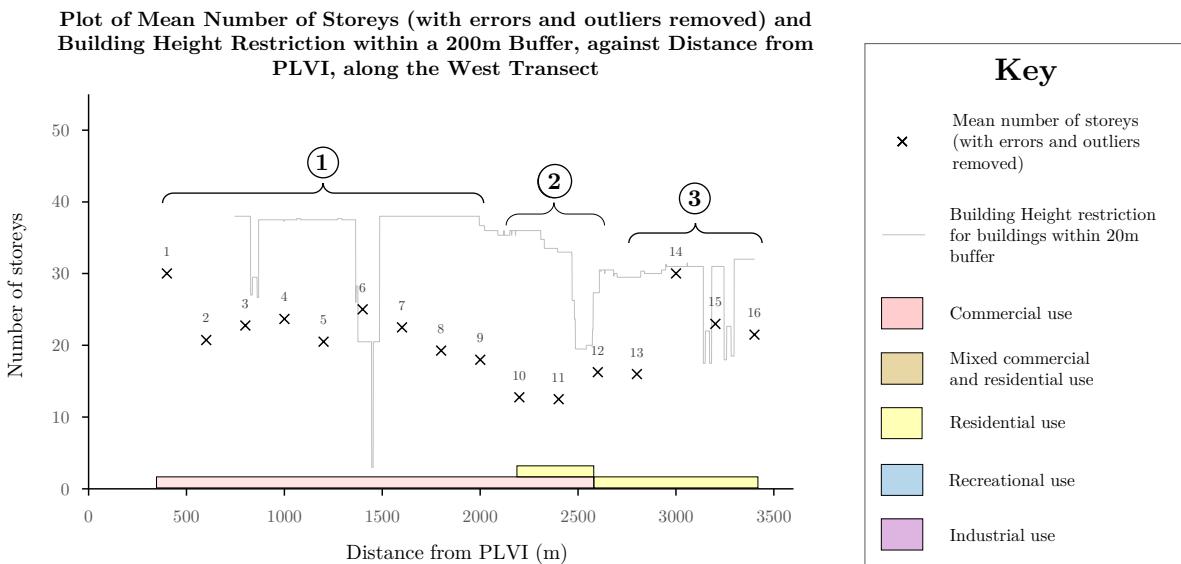
*t*-value lower than critical *t*-value, hence null hypothesis accepted

**Table 6.** Summary table of calculated values for the West Transect.



**Map 11.** Map of the west transect (Hong Kong Geodata Store, Planning Department).

#### 4.4.4 Land Use Zoning and Socio-economic



**Figure 30.** A scatter plot of the mean number of storeys, with errors and outliers removed and the mean building height restriction with a 200m buffer, against the distance from the PLVI, along the West transect. (Lands Department, Planning Department)

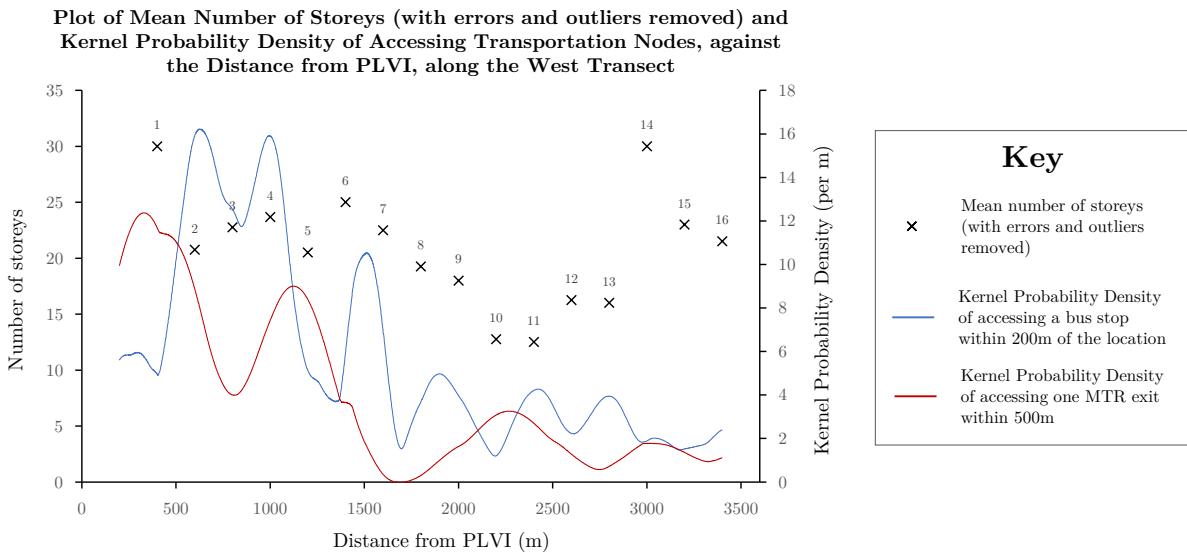
From Map 11 and Figure 31, in W1-W9, the area is mainly used for commercial purposes, and as the distance increases, it slowly transitions to a residential area. The shrinking effect of the commercial area is most likely due to the sectoral shift from secondary sectors to tertiary sectors in the 1990s (Planning Department), causing commercial buildings to be transformed into residential buildings.

In W10-12, the land use is composed of commercial and residential buildings, and located within Sai Ying Pun, one of the oldest still-operating historic commercial areas (E11 median year of completion: 1971). As technology in the past was less advanced, the height of the buildings is very low when compared to the surroundings.

Although W13-W16 are previously low-rise residential buildings, due to the proximity to the Hong Kong University Campus, there is a high demand of services such as restaurants, causing areas such as Shek Tong Tsui to undergo gentrification, attracting new businesses into the area, leading to an overall higher land value. To best utilise the land, developers began developing vertically, leading to new developments (W14) to construct buildings that are barely below the height restriction (see Figure 31).

Therefore, it can be said that the West Transect exhibits many shared properties with the Burgess Model.

#### 4.4.5 Transport

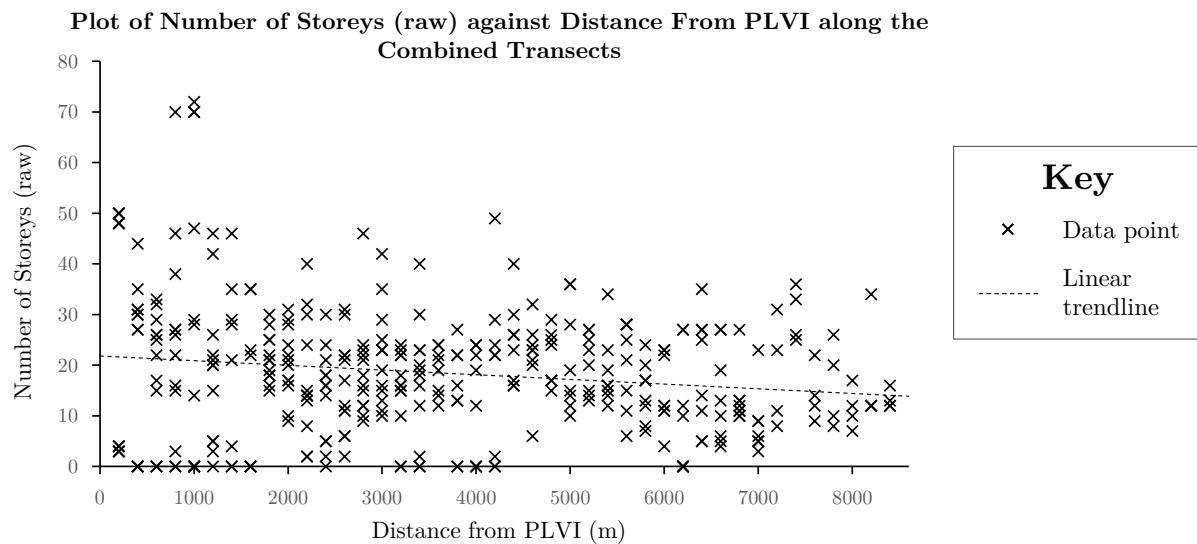


**Figure 31.** A scatter plot of the mean number of storeys, with errors and outliers removed and the kernel probability density of accessing transport nodes, against the distance from the PLVI, along the West transect. (Lands Department)

From above, it is clear that the accessibility decreases as distance increases, as residential areas farther from the PLVI do not generate much demand. This once again confirms the applicability of the distance decay concept to the West Transect.

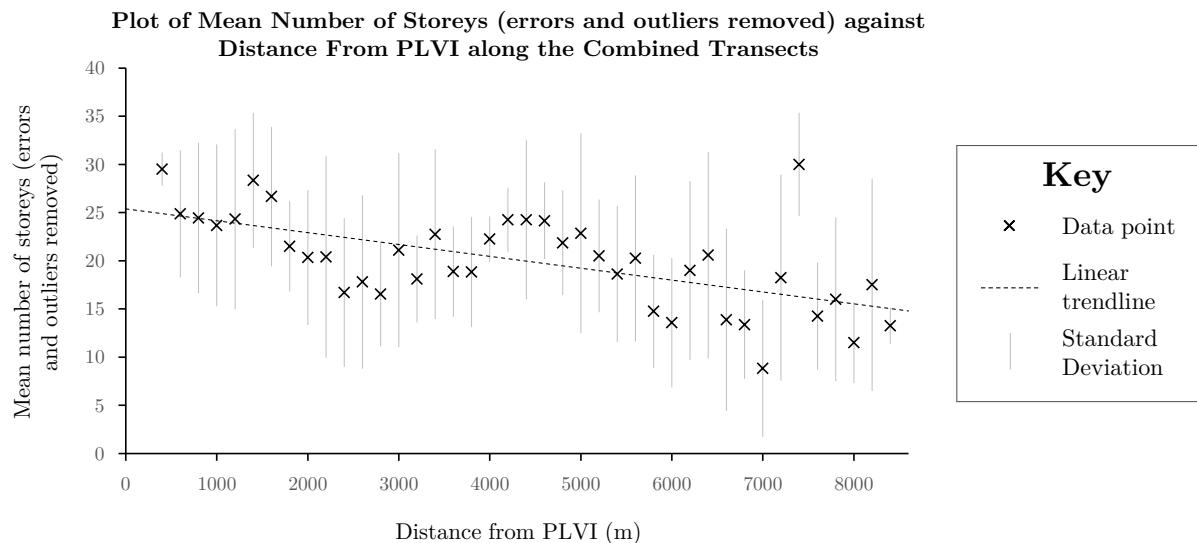
## 4.5 Combined Transects

### 4.5.1 Raw Data Graph



**Figure 32.** A scatter plot of the raw number of storeys against the distance from the PLVI, along the combined transects.

### 4.5.2 Processed Data Graph

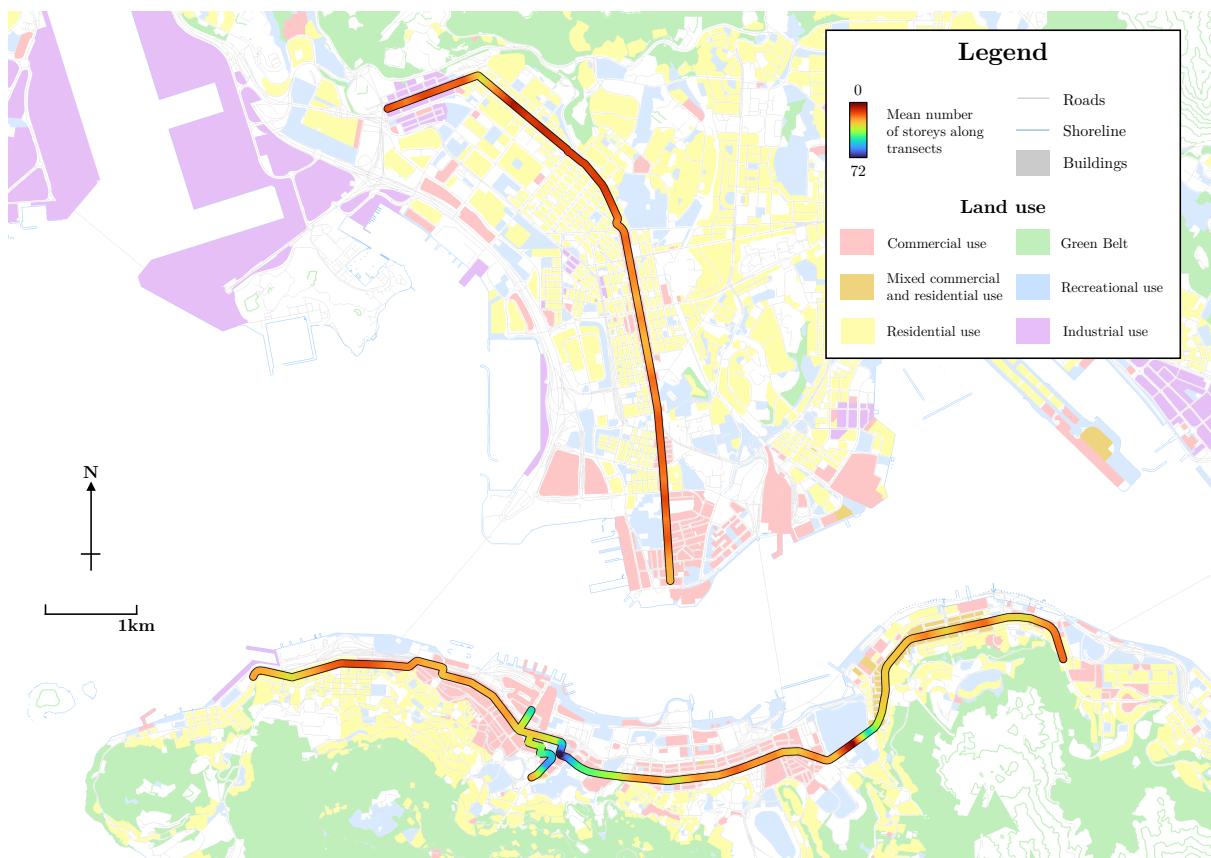


**Figure 33.** A scatter plot of the mean number of storeys, with errors and outliers removed, against the distance from the PLVI, along the west transect.

#### 4.5.3 Summary Data Table

|   | North   | East    | South   | West    | Combined |
|---|---------|---------|---------|---------|----------|
| Mean number of storeys (Raw)                                    | 15.29   | 19.88   | 28.71   | 18.18   | 19.43    |
| Standard Deviation of Number of storeys (Raw)                   | 7.73    | 13.25   | 23.30   | 12.23   | 11.54    |
| Mean number of storeys (No Errors)                              | 16.33   | 24.96   | 40.07   | 21.63   | 21.13    |
| Standard Deviation of Number of storeys (No Errors)             | 7.086   | 10.07   | 16.58   | 10.24   | 10.64    |
| Upper range of number of storeys (No Errors)                    | 15.47   | 23.55   | 40.07   | 20.08   | 19.66    |
| Lower range of number of storeys (No Errors)                    | 6.111   | 7.273   | 16.58   | 8.168   | 8.086    |
| Mean number of storeys (No Errors or Outliers)                  | 30.50   | 45.11   | 73.23   | 42.10   | 27.75    |
| Standard Deviation of number of storeys (No Errors or Outliers) | 2.159   | 4.81    | 6.91    | 1.16    | 11.58    |
| R-value   | -0.4566 | -0.4254 | -0.2571 | -0.2890 | -0.6262  |
| t-value   | 2.903   | 2.531   | 0.5322  | 1.129   | 5.015    |
| Critical t-value  | 2.037   | 2.045   | 2.776   | 2.145   | 2.023    |
| t-value > critical t-value / whether to reject H <sub>0</sub>   | Yes     | Yes     | No      | No      | Yes      |

**Table 7.** Summary of the mean number of storeys, standard deviation of the number of storeys, and other relevant parameters used in the SRCC, for the north, east, south, west and combined transects.



**Map 12.** Map of the combined transects (Lands Department, Planning Department)

In summary, there is a strong negative correlation between the number of storeys and the distance from PLVI.

## **5 Conclusion**

The research question is “To what extent does Hong Kong fit the pattern of decreasing land values with increasing distance from the Peak Land Value Intersection (PLVI)?”, in which the null hypothesis is “the height of buildings in Hong Kong will not decrease with decreasing with increasing distance from the PLVI”.

In the North and East Transects, the null hypothesis is rejected, and in the South and West Transects, the null hypothesis is accepted. Overall, the null hypothesis is rejected with an R-value of -0.6262, which is significant as the *t*-value of 5.015 is larger than the critical *t*-value of 2.023.

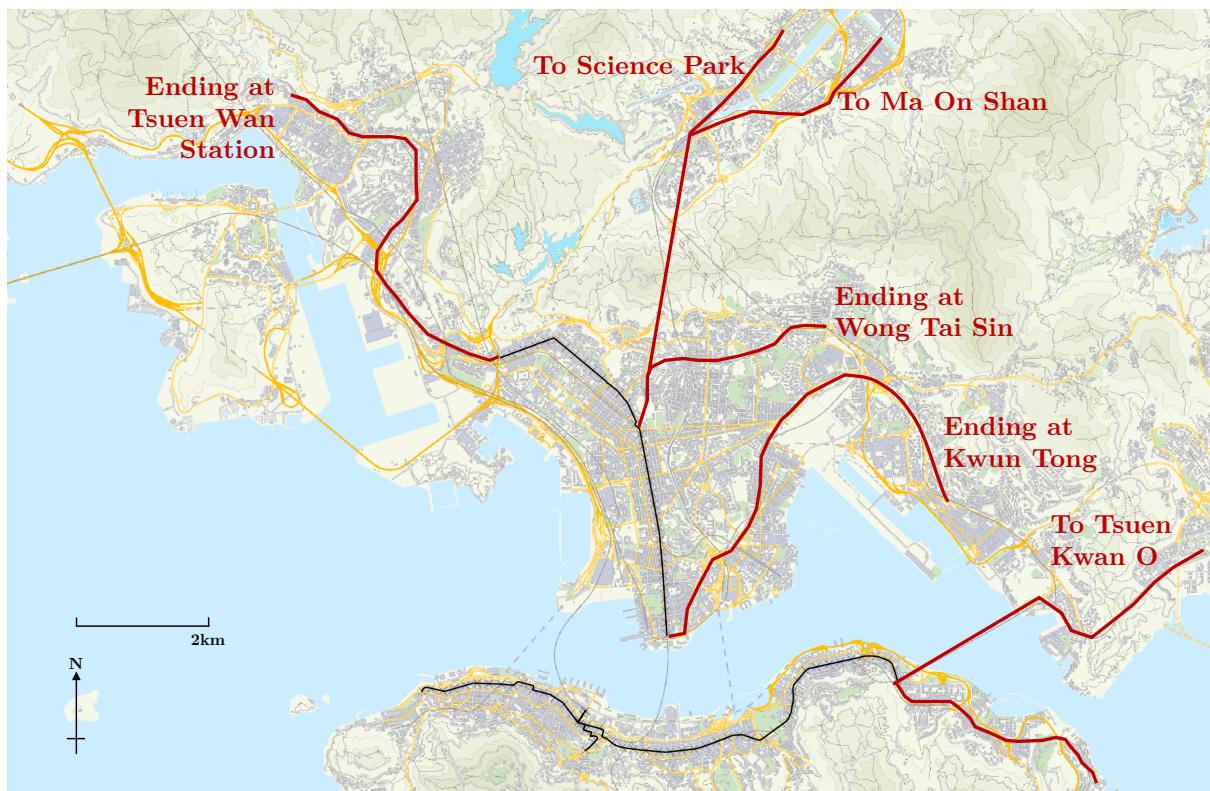
There are several reasons for the decreasing building height as distance increases, the most important being the bid-rent theory, where different industries will compete space for higher profitability and accessibility, at the expense of paying higher rent, closer to the PLVI. However, there are a multitude of factors cause anomalies, including secondary PLVIs, gentrification, sectoral shifts, terrain, building height restrictions, recreational facilities, and historical buildings. Due to the unique terrain and development history of Hong Kong, there are multiple models is applicable in specific situations, including the Burgess Model in N0-25, E1-34, W1-11, Sector Model in N9-15 and inapplicable to S0-5.

## 6 Evaluation

There are two major limitations to this investigation: inclusiveness, and accuracy.

### 6.1 Inclusiveness

The current field of study only encompasses the core Kowloon area, which is not representative of the entire Hong Kong. In fact, many new towns such as Ma On Shan and satellite cities such as Kwun Tong are constructed with distinct functional zones, which is not observed in the current set of data. If the dataset could be expanded up to 12 transects as shown below, it will yield a fairer representation.

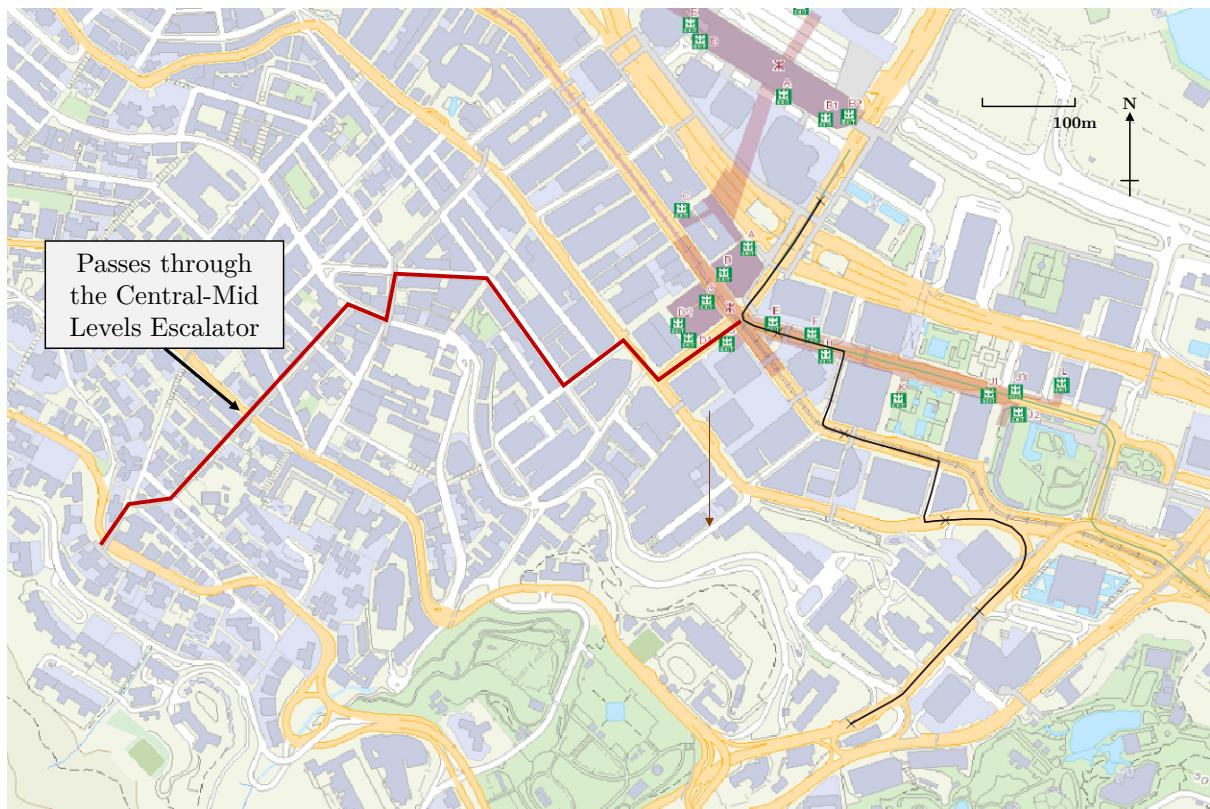


**Map 12.** A map showing possible transects that will increase data inclusiveness. (Hong Kong Geodata Store)

To further improve the inclusiveness, the buffer size of the each transect sample should be expanded from 20m to 50m, as some roads near the PLVI, such as S2 has a width of 24m, causing buildings to be left out.

## 6.2 Accuracy

In terms of accuracy, the South Transect in the current investigation is flawed, as it did not have enough valid samples to draw a reliable conclusion. Hence, it has been suggested to use a new transect, which will likely generate more accurate results as it will pass through a more buildings and encounter fewer invalid locations.



Map 13. A map showing the new South Transect (Hong Kong Geodata Store)

Another issue is that the floor height for each building is different, for example, a high-density industrial building may have a smaller height to maximise gross floor area, while shopping centres may have a considerable higher height to maximise the sense of comfort. In addition, it is sometimes hard to determine the number of storeys from outside, because the distinct floors may be hidden behind reflective glass planes. Hence, in order to maximise the data coverage, it has been suggested to use trigonometry to survey the height instead.

The method of doing so is by installing a smartphone application that detects the pitch of the phone, and by performing trigonometry using GIS software, the accurate height can be obtained.

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## 8 Appendix

### 8.1 Raw Data Tables

Raw data will be presented in the form of tables, the column headers are:

- A. Unique identifier of the data point
- B. Distance to start of transect, in metres
- C. The building identification code used in iB1000 maps<sup>1</sup>
- D. The name of the building
- E. Indication of whether there are no buildings for that data point
- F. Indication of whether the building is invalid, as specified in Section 2.2
- G. Number of storeys

#### 8.1.1 North Transect

| A    | B    | C          | D                                 | E | F | G  |
|------|------|------------|-----------------------------------|---|---|----|
| NONE | 1800 | 1108244238 | 26 Nathan Road                    |   |   | 28 |
| N0SE | 1800 | 1108244285 | Sheraton Hong Kong Hotel & Towers |   |   | 18 |
| N0SW | 1800 | 1108244290 | The Peninsula Hotel Office Tower  |   |   | 30 |
| N0NW | 1800 | 1108244258 | The Kowloon Hotel                 |   |   | 18 |
| N1NE | 2000 | 1108244148 | Holiday Inn Golden Mile Hong Kong |   |   | 20 |
| N1SE | 2000 | 1108244060 | Mirador Mansion                   |   |   | 17 |
| N1SW | 2000 | 1108244151 | I Square                          |   |   | 21 |
| N1NW | 2000 | 1108244082 | I Square                          |   |   | 31 |
| N2NE | 2200 | 1108243793 | Comfort Building                  |   |   | 13 |
| N2SE | 2200 | 1108243826 | HSBC Building Tsim Sha Tsui       |   |   | 14 |
| N2SW | 2200 | 1108243833 | Kowloon Mosque and Islamic Centre | x |   | 2  |
| N2NW | 2200 | 1108243542 | Park Lane Shopper's Boulevard     | x |   | 2  |
| N3NE | 2400 | 1108243250 | Miramar Shopping Centre           |   |   | 18 |
| N3SE | 2400 | 1109609183 | The Mira Hong Kong                |   |   | 18 |
| N3SW | 2400 |            |                                   | x | x | 0  |
| N3NW | 2400 | 1108243228 | Park Lane Shopper's Boulevard     | x |   | 2  |
| N4NE | 2600 | 1108242804 | A. Kun Lock Building              |   |   | 11 |
| N4SE | 2600 | 1108242855 | Good Results Building             |   |   | 12 |
| N4SW | 2600 | 1108242973 | Park Lane Shopper's Boulevard     | x |   | 2  |
| N4NW | 2600 | 1108242808 | Tsim Sha Tsui Police Station      | x |   | 11 |
| N5NE | 2800 | 1108242144 | 238 Nathan Road                   |   |   | 21 |
| N5SE | 2800 | 1108242261 | Prudential Centre                 |   |   | 22 |
| N5SW | 2800 | 1108242382 | Shamrock Hotel                    |   |   | 10 |
| N5NW | 2800 | 1108242315 | Pearl Oriental Tower              |   |   | 18 |
| N6NE | 3000 | 1108241669 | CHI Residences 314                |   |   | 25 |
| N6SE | 3000 | 1108241768 | May Ming Building                 |   |   | 11 |
| N6SW | 3000 | 1108241727 | Hong Kiu Mansion                  |   |   | 15 |
| N6NW | 3000 | 1108241688 | 315 Nathan Road                   |   |   | 10 |
| N7NE | 3200 | 1108240652 | Eaton Hotel                       |   |   | 10 |

<sup>1</sup> More details of the metadata of iB1000 maps can be found at  
<https://www.hkmapmeta.gov.hk/mcs/home/web/data/lands/iB1000.html>

|       |      |            |                                |   |    |
|-------|------|------------|--------------------------------|---|----|
| N7SE  | 3200 | 1108240865 | Manulife Provident Funds Place |   | 18 |
| N7SW  | 3200 | 1108240829 | Nathan Hotel                   |   | 16 |
| N7NW  | 3200 | 1108240658 | Hang Shing Building            |   | 16 |
| N8NE  | 3400 | 1108240186 | Chak Fung House                |   | 16 |
| N8SE  | 3400 | 1108240221 | Tang's Mansion                 |   | 12 |
| N8SW  | 3400 | 1108240283 | Kowloon Government Offices     | × | 19 |
| N8NW  | 3400 | 1108240246 | Tin Hau Temple                 | × | 2  |
| N9NE  | 3600 | 1108239661 | Bangkok Bank Building          |   | 24 |
| N9SE  | 3600 | 1108239696 | Oxford Commercial Building     |   | 24 |
| N9NW  | 3600 | 1108239676 | Casa Hotel                     |   | 15 |
| N9SW  | 3600 | 1810095790 | Casa Deluxe Hotel              |   | 14 |
| N10NE | 3800 | 1108238725 | Wing Kiu Building              |   | 16 |
| N10SE | 3800 | 1108238831 | Onward Building                |   | 13 |
| N10SW | 3800 | 1108239101 | Lai Kee Mansion                |   | 13 |
| N10NW | 3800 | 1108238565 | Bell House                     |   | 22 |
| N11NE | 4000 | 1108237754 | Wofoo Commercial Building      |   | 24 |
| N11SE | 4000 | 1108237821 | Kelly Commercial Centre        |   | 22 |
| N11SW | 4000 | 1108237866 | Full Win Commercial Centre     |   | 24 |
| N11NW | 4000 | 1810178822 | Ladder Dundas                  |   | 19 |
| N12NE | 4200 | 1108236167 | Good Hope Building             |   | 22 |
| N12SE | 4200 | 1108236428 | Hollywood Plaza                |   | 22 |
| N12SW | 4200 | 1108236423 | Sun Hing Building              |   | 29 |
| N12NW | 4200 | 1108236334 | Fee Tat Commercial Centre      |   | 24 |
| N13NE | 4400 | 1108235355 | Rex Building                   |   | 16 |
| N13SE | 4400 | 1108235445 | Toa Tak Building               |   | 16 |
| N13SW | 4400 | 1108235450 | Wu Sang House                  |   | 26 |
| N13NW | 4400 | 1108246338 | HSBC Building Mongkok          |   | 17 |
| N14NE | 4600 | 1108233780 | T.O.P This is our place        |   | 23 |
| N14SE | 4600 | 1108246239 | Argyle Centre Phase 1          |   | 23 |
| N14SW | 4600 | 1810106386 | Le Diamant                     |   | 20 |
| N14NW | 4600 | 1108233928 | Silvercorp Intl Tower          |   | 26 |
| N15NE | 4800 | 1108232023 | Pioneer Centre                 |   | 25 |
| N15SE | 4800 | 1108232710 | Mascot House                   |   | 17 |
| N15SW | 4800 | 1108232776 | Kingland Apartments            |   | 17 |
| N15NW | 4800 | 1109261336 | Carprio Mansion                |   | 15 |
| N16NE | 5000 | 1108230953 | Mong Kok Police Station        | × | 10 |
| N16SE | 5000 | 1108231548 | Edward Mansion                 |   | 15 |
| N16SW | 5000 | 1108231496 | Bijou Apartments               |   | 28 |
| N16NW | 5000 | 1108231299 | Kwan Ngan House                |   | 14 |
| N17NE | 5200 | 1108230402 | Prosperity Commercial Building |   | 23 |
| N17SE | 5200 | 1108230452 | Tai Sang Bank Building         |   | 15 |
| N17SW | 5200 | 1108230503 | Amber House                    |   | 13 |
| N17NW | 5200 | 1108230410 | Lee Tat Building               |   | 14 |
| N18NE | 5400 | 1108229291 | Shing To Building              |   | 16 |
| N18SE | 5400 | 1810000587 | Emerald Twenty Eight           |   | 34 |
| N18SW | 5400 | 1108229363 | Hang Shing Building            |   | 14 |
| N18NW | 5400 | 1108229242 | Tai Po House                   |   | 12 |
| N19NE | 5600 | 1108228236 | Fairview Garden                |   | 21 |
| N19SE | 5600 | 1108228278 | Yau Luen Apartments            |   | 11 |
| N19SW | 5600 | 1108228341 | 33 Maple Street                |   | 6  |
| N19NW | 5600 | 1108228149 | Hoi Cheung Building            |   | 15 |

|       |      |            |   |       |
|-------|------|------------|---|-------|
| N20NE | 5800 | 1108226640 | Pak Far Building                                      | 7     |
| N20SE | 5800 | 1108226735 | Tung Lo Court Block B                                 | 12    |
| N20SW | 5800 | 1108227078 | 45 Tai Po Road  | 13    |
| N20NW | 5800 | 1108226958 | 1A Un Chau Street                                     | 8     |
| N21NE | 6000 | 1108225865 | Ka Shun Building                                      | 11    |
| N21SE | 6000 | 1108225903 | Penta House   | 12    |
| N21SW | 6000 | 1108226016 | Hip Fook Building                                     | 11    |
| N21NW | 6000 | 1108225950 | Wei Sun Building                                      | 12    |
| N22NE | 6200 |            |   | × × 0 |
| N22SE | 6200 |            |   | × × 0 |
| N22SW | 6200 | 1108225465 | Ying Lun Building                                     | 10    |
| N22NW | 6200 | 1108225421 | Furama Building                                       | 12    |
| N23NE | 6400 | 1108224661 | Kin Man Building                                      | 11    |
| N23SW | 6400 | 1108224764 | Celebrity Commercial Centre                           | 14    |
| N23SW | 6400 | 1108224941 | Precious Blood Hospital                               | × 5   |
| N23NW | 6400 | 1108224749 | 127 Castle Peak Road                                  | 5     |
| N24NE | 6600 | 1108224084 | 136-138 Castle Peak Road                              | 5     |
| N24SE | 6600 | 1108224091 | Wai Lee Commercial Building                           | 13    |
| N24SW | 6600 | 1108224252 | Hung Yu Mansion Block B                               | 10    |
| N24NW | 6600 | 1108224142 | Prince Theatre  | 4     |
| N25NE | 6800 | 1108223515 | Hing Lung Building                                    | 11    |
| N25SE | 6800 | 1108223658 | Apollo Building                                       | 10    |
| N25SW | 6800 | 1108223789 | Spring Wide Mansion                                   | 12    |
| N25NW | 6800 | 1108223543 | 237 Castle Peak Road                                  | 10    |
| N26NE | 7000 | 1108223046 | 278 Castle Peak Road                                  | 5     |
| N26SE | 7000 | 1108223049 | 276 Castle Peak Road                                  | 5     |
| N26SW | 7000 | 1108223170 | 291 Castle Peak Road                                  | 6     |
| N26NW | 7000 | 1108223154 | 293 Castle Peak Road                                  | 5     |
| N27NE | 7200 | 1810145002 | Heya Star Tower 2                                     | 31    |
| N27SE | 7200 | 1108222564 | Shun Lee Commercial Building                          | 23    |
| N27SW | 7200 | 1108222663 | 363 Castle Peak Road                                  | 8     |
| N27NW | 7200 | 1108222641 | Po Sang Bank Building                                 | 11    |
| N28NE | 7400 | 1108222012 | Kincheng Commercial Centre                            | 25    |
| N28SE | 7400 | 1108222229 | Tone King Building                                    | 26    |
| N28SW | 7400 | 1810142493 | Heya Delight  | 33    |
| N28NW | 7400 | 1108222109 | Florence Plaza  | 36    |
| N29NE | 7600 | 1108222026 | Por Yen Building                                      | 14    |
| N29SE | 7600 | 1108222031 | Park Building   | 22    |
| N29SW | 7600 | 1108222149 | Federal Mansion Block A                               | 12    |
| N29NW | 7600 | 1108222206 | 473 Castle Peak Road                                  | 9     |
| N30NE | 7800 | 1108222285 | Peninsula Tower                                       | 26    |
| N30SE | 7800 | 1108222155 | V GA Building   | 20    |
| N30SW | 7800 | 1108222376 | Lai Cheong Factory Building                           | 8     |
| N30NW | 7800 | 1108222452 | Hong Kong Spinners Industrial Building Phase VI       | 10    |
| N31NE | 8000 | 1108222607 | Fung Wah Factorial Building                           | 7     |
| N31SE | 8000 | 1108222447 | Wing Kut Industrial Building                          | 12    |
| N31SW | 8000 | 1108222674 | Kowloon Plaza   | 17    |
| N31NW | 8000 | 1108222796 | Hong Kong Spinners Industrial Building Phase I And II | 10    |
| N32NE | 8200 | 1108222836 | Ka Ming Court   | 12    |
| N32SE | 8200 | 1108222878 | Trendy Centre   | 34    |
| N32SW | 8200 | 1108223122 | Hong Kong Industrial Centre Block A                   | 12    |

|       |      |            |                                     |    |
|-------|------|------------|-------------------------------------|----|
| N32NW | 8200 | 1108223015 | Hong Kong Industrial Centre Block B | 12 |
| N33NE | 8400 | 1108223041 | Hop Hing Industrial Building        | 13 |
| N33SE | 8400 | 1108223284 | International Industrial Building   | 12 |
| N33SW | 8400 | 1108223054 | Charm Centre                        | 16 |
| N33NW | 8400 | 1108223340 | Tong Yuen Factory Building          | 12 |

### 8.1.2 East Transect

| A     | B    | C          | D                                       | E | F | G  |
|-------|------|------------|---|---|---|----|
| E0NE  | 200  | 1103124226 | One Exchange Square                     |   |   | 50 |
| E0SE  | 200  | 1103123008 | IFC Mall (Hong Kong Station)            | × |   | 4  |
| E0SW  | 200  | 1103124028 | General Post Office                     | × |   | 3  |
| E0NW  | 200  | 1103124531 | Jardine House                           |   |   | 48 |
| E1NE  | 400  | 1103124903 | World-wide House                        |   |   | 27 |
| E1SE  | 400  |            | Connaught Rd Flyover                    | × | × | 0  |
| E1SW  | 400  |            | Connaught Rd Flyover                    | × | × | 0  |
| E1NW  | 400  | 1103125246 | Chater House                            |   |   | 31 |
| E2NE  | 600  |            |   | × | × | 0  |
| E2SE  | 600  | 1103125983 | Prince's Building                       |   |   | 26 |
| E2SW  | 600  | 1103125448 | Mandarin Oriental Hotel                 |   |   | 25 |
| E2NW  | 600  |            | Statue Square                           | × | × | 0  |
| E3NE  | 800  |            | Chater Garden                           | × | × | 0  |
| E3SE  | 800  |            | Chater Garden                           | × | × | 0  |
| E3SW  | 800  | 1810094197 | CCB Tower                               |   |   | 27 |
| E3NW  | 800  | 1103126040 | AIA Central                             |   |   | 38 |
| E4NE  | 1000 |            | Open Area                               | × | × | 0  |
| E4SE  | 1000 | 1103127344 | Bank of China Tower                     |   |   | 72 |
| E4SW  | 1000 |            | Chater Garden                           | × | × | 0  |
| E4NW  | 1000 |            | Shatin-Central Link Construction Site   | × | × | 0  |
| E5NE  | 1200 | 1103127939 | The High Court                          | × |   | 20 |
| E5SE  | 1200 |            | Hong Kong Park                          | × | × | 0  |
| E5SW  | 1200 | 1103127279 | Lippo Centre Tower 2                    |   |   | 42 |
| E5NW  | 1200 | 1103127459 | Lippo Centre Tower 1                    |   |   | 46 |
| E6NE  | 1400 | 1103128541 | One Pacific Place                       |   |   | 46 |
| E6SE  | 1400 |            | Open Area                               | × | × | 0  |
| E6SW  | 1400 | 1103127899 | United Centre                           |   |   | 35 |
| E6NW  | 1400 |            | Harcourt Garden                         | × | × | 0  |
| E7NE  | 1600 |            | Flyover                                 | × | × | 0  |
| E7SE  | 1600 | 1103128710 | JW Marriott Hotel                       |   |   | 35 |
| E7SW  | 1600 |            | Flyover                                 | × | × | 0  |
| E7NW  | 1600 | 1103128050 | Arsenal House (West Wing)               | × |   | 35 |
| E8NE  | 1800 | 1103128761 | OZO Wesley                              |   |   | 21 |
| E8SE  | 1800 | 1103128744 | Effectual Building                      |   |   | 25 |
| E8SW  | 1800 | 1810183790 | One Hennessy                            |   |   | 22 |
| E8NW  | 1800 | 1103128356 | Lockhart Exchange Building              |   |   | 19 |
| E9NE  | 2000 | 1103128895 | Sun Hey Mansion                         |   |   | 17 |
| E9SE  | 2000 | 1103128896 | Shanghai Industrial Investment Building |   |   | 28 |
| E9SW  | 2000 | 1103128580 | Sze Bo Building                         |   |   | 16 |
| E9NW  | 2000 | 1103128583 | Hay Wah Building Block A                |   |   | 22 |
| E10NE | 2200 | 1103128909 | Southorn Garden                         |   |   | 40 |
| E10SE | 2200 | 1103128900 | Southorn Centre                         |   |   | 32 |

|       |      |            |   |       |
|-------|------|------------|---|-------|
| E10SW | 2200 | 1103128579 | China Overseas Building                     | 30    |
| E10NW | 2200 | 1103128578 | On Hong Commercial Building                 | 24    |
| E11NE | 2400 | 1103128735 | Jade House                                  | 16    |
| E11SE | 2400 | 1103128834 | Hang Seng Wanchai Building                  | 30    |
| E11SW | 2400 | 1103128465 | Tung Wah Mansion                            | 21    |
| E11NW | 2400 | 1103128444 | Kwong Tak Mansion                           | 14    |
| E12NE | 2600 | 1103128615 | Emperor Group Centre                        | 30    |
| E12SE | 2600 | 1103128646 | Caltex House                                | 21    |
| E12SW | 2600 | 1103128311 | Easey Commercial Building                   | 22    |
| E12NW | 2600 | 1103128259 | Kwong Wah Mansion                           | 17    |
| E13NE | 2800 | 1103128154 | Kuo Wah Building                            | 16    |
| E13SE | 2800 | 1103128290 | W Square                                    | 23    |
| E13SW | 2800 | 1109346356 | Yick Wah Building                           | 12    |
| E13NW | 2800 | 1109346361 | Luen Wo Building                            | 12    |
| E14NE | 3000 | 1103127632 | Yau Kwong Building                          | 16    |
| E14SE | 3000 | 1103127766 | Opulent Building                            | 23    |
| E14SW | 3000 | 1103127526 | Henning House                               | 19    |
| E14NW | 3000 | 1103127403 | BOC Wan Chai Commercial Centre              | 23    |
| E15NE | 3200 | 1103127238 | Thai Kong Building                          | 23    |
| E15SE | 3200 | 1103127322 | Cameron Commercial Centre                   | 22    |
| E15SW | 3200 | 1103127103 | 459-465 Henessey Road                       | 15    |
| E15NW | 3200 | 1103127021 | East South Building                         | 15    |
| E16NE | 3400 | 1103127104 | The Goldmark                                | 23    |
| E16SE | 3400 | 1810079778 | Hysan Place                                 | 40    |
| E16SW | 3400 | 1103126886 | Macau Yat Yuen Centre                       | 30    |
| E16NW | 3400 | 1103126700 | East Point Centre (Old Wing)                | 18    |
| E17NE | 3600 | 1103127364 | 60-62 Yee Wo Street                         | 12    |
| E17SE | 3600 | 1103127299 | McDonald's Building                         | 21    |
| E17SW | 3600 | 1103127113 | V Causeway Bay                              | 19    |
| E17NW | 3600 | 1103127060 | Causeway Bay Commercial Building            | 22    |
| E18NE | 3800 | 1103127265 | Causeway Tower                              | 22    |
| E18SE | 3800 | 1103127365 | Catic Plaza                                 | 27    |
| E18SW | 3800 |            | Tai Hang Rd Flyover                         | × × 0 |
| E18NW | 3800 |            | Tai Hang Rd Flyover                         | × × 0 |
| E19NE | 4000 |            | Causeway Bay Sports Ground                  | × × 0 |
| E19SE | 4000 | 1103126958 | Hong Kong Central Library                   | × 12  |
| E19SW | 4000 |            | Victoria Park                               | × × 0 |
| E19NW | 4000 |            | Victoria Park                               | × × 0 |
| E20NE | 4200 |            | Open Area                                   | × × 0 |
| E20SE | 4200 | 1103125871 | Queen's College                             | × 2   |
| E20SW | 4200 |            | Victoria Park                               | × × 0 |
| E20NW | 4200 | 1103125126 | Park Towers Tower I                         | 49    |
| E21NE | 4400 | 1103124444 | L'hotel Causeway Bay Harbour View Hong Kong | 40    |
| E21SE | 4400 | 1103124762 | Kiu Hing Mansion                            | 26    |
| E21SW | 4400 | 1103124878 | Park Towers Tower II                        | 30    |
| E21NW | 4400 | 1103124522 | Park View Mansion                           | 23    |
| E22NE | 4600 | 1103122595 | Belilius Public School                      | × 6   |
| E22SE | 4600 | 1103123565 | King Yu Court                               | 32    |
| E22SW | 4600 | 1103123519 | Wilson Court                                | 24    |
| E22NW | 4600 | 1103123250 | Sun Ying Mansion                            | 21    |
| E23NE | 4800 |            | Comfort Terrace Rest Garden                 | × ×   |

|       |      |            |   |       |
|-------|------|------------|---|-------|
| E23SE | 4800 | 1103121981 | Comfort Gardens                                     | 26    |
| E23SW | 4800 | 1103121975 | Kwai Hung Holdings Centre                           | 29    |
| E23NW | 4800 | 1103121811 | Kin Ga Building                                     | 24    |
| E24NE | 5000 | 1103120818 | Fortress Metro Tower Block D                        | 36    |
| E24SE | 5000 | 1103120938 | Fortress Metro Tower Block A                        | 36    |
| E24SW | 5000 | 1103120830 | Ying Wong House                                     | 12    |
| E24NW | 5000 | 1103120777 | Chung Nam Mansion                                   | 19    |
| E25NE | 5200 | 1103120497 | North Point Centre Block A                          | 27    |
| E25SE | 5200 | 1103120557 | North Point Centre Block B                          | 27    |
| E25SW | 5200 | 1103120445 | Olympia Plaza                                       | 25    |
| E25NW | 5200 | 1103120388 | Southern Building                                   | 20    |
| E26NE | 5400 | 1103120381 | Mido Apartments                                     | 16    |
| E26SE | 5400 | 1103120396 | Hang Ying Building                                  | 19    |
| E26SW | 5400 | 1103120276 | Coronet Court                                       | 15    |
| E26NW | 5400 | 1103120290 | Hang Seng North Point Building                      | 23    |
| E27NE | 5600 | 1103120312 | Everwin Building                                    | 25    |
| E27SE | 5600 | 1103120334 | Ming Yuen Centre                                    | 28    |
| E27SW | 5600 | 1103120221 | Henan Electric Development Building                 | 28    |
| E27NW | 5600 | 1103120100 | Kiu Kwan Mansion Block A                            | 28    |
| E28NE | 5800 | 1103120219 | Roca Centre Block 2                                 | 24    |
| E28SE | 5800 | 1103120249 | Maylun Apartments                                   | 17    |
| E28SW | 5800 | 1103120091 | On Ning Building                                    | 17    |
| E28NW | 5800 | 1103120068 | Chu Kee Building                                    | 20    |
| E29NE | 6000 | 1103120125 | Island Place Tower                                  | 23    |
| E29SE | 6000 | 1103120148 | HKU School of Professional and Continuing Education | × 23  |
| E29SW | 6000 | 1103119944 | North Point Industrial Building                     | 22    |
| E29NW | 6000 | 1103119910 | Marble Road Telephone Exchange                      | 4     |
| E30NE | 6200 | 1103119981 | Healthy Gardens Block C                             | 27    |
| E30SE | 6200 | 1103120003 | Healthy Gardens Block B                             | 27    |
| E30SW | 6200 |            | King's Road Playground                              | × × 0 |
| E30NW | 6200 |            | Flyover   | × × 0 |
| E31NE | 6400 | 1103120007 | Hong Shing Court                                    | 27    |
| E31SE | 6400 | 1103119962 | Hong Cheung Court                                   | 27    |
| E31SW | 6400 | 1103119879 | 625 King's Road                                     | 25    |
| E31NW | 6400 | 1103119892 | 633 King's Road                                     | 35    |
| E32NE | 6600 | 1103120191 | Man Cheung House                                    | 6     |
| E32SE | 6600 | 1103120117 | AIA Hong Kong Tower                                 | 19    |
| E32SW | 6600 | 1103119955 | Prosperity Millennia Plaza                          | 27    |
| E32NW | 6600 | 1103120026 | Harbour Plaza, North Point                          | 27    |
| E33NE | 6800 | 1810186401 | Golden Horse Mansion                                | 27    |
| E33SE | 6800 | 1103120430 | Mansion Building                                    | 13    |
| E33SW | 6800 | 1103120407 | Lai Wah Mansion                                     | 13    |
| E33NW | 6800 | 1103120475 | Ritz Garden Apartments                              | 11    |
| E34NE | 7000 | 1103121003 | Quarry Bay Station                                  | × 3   |
| E34SE | 7000 | 1103120983 | North Point Government Primary School               | × 9   |
| E34SW | 7000 | 1103120812 | Wai Fong Court                                      | 23    |
| E34NW | 7000 | 1103120796 | Tor Po Mansion                                      | 9     |

### 8.1.3 South Transect

| A    | B    | C          | D   | E | F | G  |
|------|------|------------|---|---|---|----|
| S0NE | 200  | 1103124226 | One Exchange Square                               |   |   | 50 |
| S0SE | 200  | 1103123008 | IFC Mall (Hong Kong Station)                      | × |   | 4  |
| S0SW | 200  | 1103124028 | General Post Office                               | × |   | 3  |
| S0NW | 200  | 1103124531 | Jardine House                                     |   |   | 48 |
| S1NE | 400  | 1103125853 | Gloucester Tower                                  |   |   | 44 |
| S1SE | 400  | 1103124903 | World-wide House                                  |   |   | 27 |
| S1SW | 400  | 1103125246 | Chater House                                      |   |   | 31 |
| S1NW | 400  | 1103125889 | Alexandra House                                   |   |   | 35 |
| S2NE | 600  | 1103126642 | Standard Chartered Bank Building                  |   |   | 32 |
| S2SE | 600  | 1103126580 | The Galleria                                      |   |   | 33 |
| S2SW | 600  |            |   | × |   | 0  |
| S2NW | 600  | 1103125983 | Prince's Building                                 |   |   | 26 |
| S3NE | 800  | 1103127201 | Cheung Kong Center                                |   |   | 70 |
| S3SE | 800  | 1103127307 | Former French Mission Building                    | × |   | 3  |
| S3SW | 800  | 1103126706 | HSBC Main Building                                |   |   | 46 |
| S3NW | 800  | 1103126848 | Bank of China Building                            |   |   | 15 |
| S4NE | 1000 | 1103127404 | Cheung Kong Park                                  | × |   | 0  |
| S4SE | 1000 | 1103127201 | Cheung Kong Center                                | × |   | 70 |
| S4SW | 1000 | 1103127344 | Bank of China Tower                               |   |   | 70 |
| S4NW | 1000 | 1103127911 | Champion Tower                                    |   |   | 47 |
| S5NE | 1200 | 1103128212 | Consulate General of the United States of America | × |   | 5  |
| S5SE | 1200 |            |   | × | × | 5  |
| S5SW | 1200 | 1103128636 | St. John's Building                               |   |   | 22 |
| S5NW | 1200 | 1103128772 | The Helena May                                    | × |   | 3  |

### 8.1.4 West Transect

| A    | B    | C          | D                            | E | F | G  |
|------|------|------------|------------------------------|---|---|----|
| W0NE | 200  | 1103124028 | General Post Office          | × |   | 3  |
| W0SE | 200  | 1103124531 | Jardine House                |   |   | 48 |
| W0SW | 200  | 1103123897 | Two Exchange Square          |   |   | 50 |
| W0NW | 200  | 1103123008 | IFC Mall (Hong Kong Station) | × |   | 4  |
| W1NE | 400  |            |                              | × |   | 0  |
| W1SE | 400  | 1103125246 | Chater House                 |   |   | 30 |
| W1SW | 400  |            |                              | × |   | 0  |
| W1NW | 400  | 1103124903 | World-wide House             |   |   | 30 |
| W2NE | 600  | 1103124097 | The Chinese Bank Building    |   |   | 29 |
| W2SE | 600  | 1103124289 | Hip Shing Hong Centre        |   |   | 22 |
| W2SW | 600  | 1103124542 | Tung Ming Building           |   |   | 15 |
| W2NW | 600  | 1103124370 | Prosperous Building          |   |   | 17 |
| W3NE | 800  | 1103123339 | Dah Sing Life Building       |   |   | 22 |
| W3SE | 800  | 1103123422 | Hang Seng Bank Headquarters  |   |   | 27 |
| W3SW | 800  | 1103123440 | Central 88                   |   |   | 26 |
| W3NW | 800  | 1103123315 | Hung Tak Building            |   |   | 16 |
| W4NE | 1000 | 1103122247 | Nan Fung Tower               |   |   | 29 |

|       |      |            |                                     |    |
|-------|------|------------|-------------------------------------|----|
| W4SE  | 1000 |            | ×                                   | 0  |
| W4SW  | 1000 | 1103122673 | Cheung's Building                   | 14 |
| W4NW  | 1000 | 1103122090 | Li Po Chun Chambers                 | 28 |
| W5NE  | 1200 | 1103121854 | Blissful Building                   | 15 |
| W5SE  | 1200 | 1810151856 | Continental Place                   | 21 |
| W5SW  | 1200 | 1103122129 | Tung Hip Commercial Building        | 26 |
| W5NW  | 1200 | 1103121716 | Tung Ning Building                  | 20 |
| W6NE  | 1400 | 1103121420 | Kai Tak Commercial Building         | 21 |
| W6SE  | 1400 | 1103121840 | FWD Financial Centre                | 29 |
| W6SW  | 1400 | 1103121802 | West Exchange Tower                 | ×  |
| W6NW  | 1400 | 1103121354 | Western Market                      | ×  |
| W7NE  | 1600 |            | ×                                   | 0  |
| W7SE  | 1600 | 1103121141 | Seaview Commercial Building         | 23 |
| W7SW  | 1600 | 1103121112 | Connaught Harbourfront House        | 22 |
| W7NW  | 1600 |            | ×                                   | 0  |
| W8NE  | 1800 | 1103120950 | No.9 Des Voeux Road West            | 25 |
| W8SE  | 1800 | 1103121358 | Kingdom Power Commercial Building   | 15 |
| W8SW  | 1800 | 1103121330 | Western Centre                      | 21 |
| W8NW  | 1800 | 1103121080 | Sing Kui Commercial Building        | 16 |
| W9NE  | 2000 | 1103121016 | Chiu Chow Association Building      | 10 |
| W9SE  | 2000 | 1103121249 | Yu Chu Lam Building                 | 9  |
| W9SW  | 2000 | 1810156458 | AVA128                              | 29 |
| W9NW  | 2000 | 1103121008 | Lucky Commercial Centre             | 24 |
| W10NE | 2200 | 1103120999 | Tak Tung House                      | 15 |
| W10SE | 2200 | 1103121193 | Luen Tak Building                   | 14 |
| W10SW | 2200 | 1103121183 | Wai Tak Building                    | 14 |
| W10NW | 2200 | 1103120982 | Wing Fat Mansion                    | 8  |
| W11NE | 2400 | 1103120926 | Tak May House                       | 5  |
| W11SE | 2400 | 1103121148 | Tung Che Commercial Centre          | 24 |
| W11SW | 2400 | 1103121139 | Ching Tak Building                  | 16 |
| W11NW | 2400 | 1103120932 | Wah Lap House                       | 5  |
| W12NE | 2600 | 1103121082 | Tin Hing Building                   | 6  |
| W12SE | 2600 | 1103121419 | Siu Cheung Building                 | 6  |
| W12SW | 2600 | 1103121425 | Liang Ga Building                   | 22 |
| W12NW | 2600 | 1810159283 | Bohemian House                      | 31 |
| W13NE | 2800 | 1103121272 | Kwan Yick Building Phase II Block B | 24 |
| W13SE | 2800 | 1103121646 | Chung Ah Building                   | 15 |
| W13SW | 2800 | 1103121710 | Lucky Building                      | 9  |
| W13NW | 2800 | 1810143106 | Upton                               | 46 |
| W14NE | 3000 | 1103121694 | Lun Fung Court                      | 35 |
| W14SE | 3000 | 1103121987 |                                     | 13 |
| W14SW | 3000 | 1103121900 | Pacific Plaza                       | 29 |
| W14NW | 3000 | 1103121540 | Hong Kong Plaza                     | 42 |
| W15NE | 3200 |            | ×                                   | 0  |
| W15SE | 3200 | 1103121696 | Mei Sun Lau Block A                 | 24 |
| W15SW | 3200 | 1103121624 | Hong Kong Industrial Building       | 22 |
| W15NW | 3200 |            | ×                                   | 0  |
| W16NE | 3400 | 1103121801 | Wo Fat Building                     | 20 |

|       |      |            |                 |    |
|-------|------|------------|-----------------|----|
| W16SE | 3400 | 1103121970 | Sum Way Mansion | 23 |
| W16SW | 3400 |            | ×               | 0  |
| W16NW | 3400 |            | ×               | 0  |

### 8.1.5 Combined Transect

| A    | B   | C          | D                                | E | F | G  |
|------|-----|------------|----------------------------------|---|---|----|
| E0NE | 200 | 1103124226 | One Exchange Square              |   |   | 50 |
| E0SE | 200 | 1103123008 | IFC Mall (Hong Kong Station)     | × |   | 4  |
| E0SW | 200 | 1103124028 | General Post Office              | × |   | 3  |
| E0NW | 200 | 1103124531 | Jardine House                    |   |   | 48 |
| S0NE | 200 | 1103124226 | One Exchange Square              |   |   | 50 |
| S0SE | 200 | 1103123008 | IFC Mall (Hong Kong Station)     | × |   | 4  |
| S0SW | 200 | 1103124028 | General Post Office              | × |   | 3  |
| S0NW | 200 | 1103124531 | Jardine House                    |   |   | 48 |
| W0NE | 200 | 1103124028 | General Post Office              | × |   | 3  |
| W0SE | 200 | 1103124531 | Jardine House                    |   |   | 48 |
| W0SW | 200 | 1103123897 | Two Exchange Square              |   |   | 50 |
| W0NW | 200 | 1103123008 | IFC Mall (Hong Kong Station)     | × |   | 4  |
| E1NE | 400 | 1103124903 | World-wide House                 |   |   | 27 |
| E1SE | 400 |            | Connaught Rd Flyover             | × | × | 0  |
| E1SW | 400 |            | Connaught Rd Flyover             | × | × | 0  |
| E1NW | 400 | 1103125246 | Chater House                     |   |   | 31 |
| S1NE | 400 | 1103125853 | Gloucester Tower                 |   |   | 44 |
| S1SE | 400 | 1103124903 | World-wide House                 |   |   | 27 |
| S1SW | 400 | 1103125246 | Chater House                     |   |   | 31 |
| S1NW | 400 | 1103125889 | Alexandra House                  |   |   | 35 |
| W1NE | 400 |            |                                  | × |   | 0  |
| W1SE | 400 | 1103125246 | Chater House                     |   |   | 30 |
| W1SW | 400 |            |                                  | × |   | 0  |
| W1NW | 400 | 1103124903 | World-wide House                 |   |   | 30 |
| E2NE | 600 |            |                                  | × | × | 0  |
| E2SE | 600 | 1103125983 | Prince's Building                |   |   | 26 |
| E2SW | 600 | 1103125448 | Mandarin Oriental Hotel          |   |   | 25 |
| E2NW | 600 |            | Statue Square                    | × | × | 0  |
| S2NE | 600 | 1103126642 | Standard Chartered Bank Building |   |   | 32 |
| S2SE | 600 | 1103126580 | The Galleria                     |   |   | 33 |
| S2SW | 600 |            |                                  | × |   | 0  |
| S2NW | 600 | 1103125983 | Prince's Building                |   |   | 26 |
| W2NE | 600 | 1103124097 | The Chinese Bank Building        |   |   | 29 |
| W2SE | 600 | 1103124289 | Hip Shing Hong Centre            |   |   | 22 |
| W2SW | 600 | 1103124542 | Tung Ming Building               |   |   | 15 |
| W2NW | 600 | 1103124370 | Prosperous Building              |   |   | 17 |
| E3NE | 800 |            | Chater Garden                    | × | × | 0  |
| E3SE | 800 |            | Chater Garden                    | × | × | 0  |
| E3SW | 800 | 1810094197 | CCB Tower                        |   |   | 27 |
| E3NW | 800 | 1103126040 | AIA Central                      |   |   | 38 |
| S3NE | 800 | 1103127201 | Cheung Kong Center               |   |   | 70 |

|      |      |            |   |   |     |
|------|------|------------|---|---|-----|
| S3SE | 800  | 1103127307 | Former French Mission Building                    | x | 3   |
| S3SW | 800  | 1103126706 | HSBC Main Building                                |   | 46  |
| S3NW | 800  | 1103126848 | Bank of China Building                            |   | 15  |
| W3NE | 800  | 1103123339 | Dah Sing Life Building                            |   | 22  |
| W3SE | 800  | 1103123422 | Hang Seng Bank Headquarters                       |   | 27  |
| W3SW | 800  | 1103123440 | Central 88  |   | 26  |
| W3NW | 800  | 1103123315 | Hung Tak Building                                 |   | 16  |
| E4NE | 1000 |            | Open Area   | x | x 0 |
| E4SE | 1000 | 1103127344 | Bank of China Tower                               |   | 72  |
| E4SW | 1000 |            | Chater Garden                                     | x | x 0 |
| E4NW | 1000 |            | Shatin-Central Link Construction Site             | x | x 0 |
| S4NE | 1000 | 1103127404 | Cheung Kong Park                                  | x | 0   |
| S4SE | 1000 | 1103127201 | Cheung Kong Center                                | x | 70  |
| S4SW | 1000 | 1103127344 | Bank of China Tower                               |   | 70  |
| S4NW | 1000 | 1103127911 | Champion Tower                                    |   | 47  |
| W4NE | 1000 | 1103122247 | Nan Fung Tower                                    |   | 29  |
| W4SE | 1000 |            |   | x | 0   |
| W4SW | 1000 | 1103122673 | Cheung's Building                                 |   | 14  |
| W4NW | 1000 | 1103122090 | Li Po Chun Chambers                               |   | 28  |
| E5NE | 1200 | 1103127939 | The High Court                                    | x | 20  |
| E5SE | 1200 |            | Hong Kong Park                                    | x | x 0 |
| E5SW | 1200 | 1103127279 | Lippo Centre Tower 2                              |   | 42  |
| E5NW | 1200 | 1103127459 | Lippo Centre Tower 1                              |   | 46  |
| S5NE | 1200 | 1103128212 | Consulate General of the United States of America | x | 5   |
| S5SE | 1200 |            |   | x | x 5 |
| S5SW | 1200 | 1103128636 | St. John's Building                               |   | 22  |
| S5NW | 1200 | 1103128772 | The Helena May                                    | x | 3   |
| W5NE | 1200 | 1103121854 | Blissful Building                                 |   | 15  |
| W5SE | 1200 | 1810151856 | Continental Place                                 |   | 21  |
| W5SW | 1200 | 1103122129 | Tung Hip Commercial Building                      |   | 26  |
| W5NW | 1200 | 1103121716 | Tung Ning Building                                |   | 20  |
| E6NE | 1400 | 1103128541 | One Pacific Place                                 |   | 46  |
| E6SE | 1400 |            | Open Area   | x | x 0 |
| E6SW | 1400 | 1103127899 | United Centre                                     |   | 35  |
| E6NW | 1400 |            | Harcourt Garden                                   | x | x 0 |
| W6NE | 1400 | 1103121420 | Kai Tak Commercial Building                       |   | 21  |
| W6SE | 1400 | 1103121840 | FWD Financial Centre                              |   | 29  |
| W6SW | 1400 | 1103121802 | West Exchange Tower                               | x | 28  |
| W6NW | 1400 | 1103121354 | Western Market                                    | x | 4   |
| E7NE | 1600 |            | Flyover   | x | x 0 |
| E7SE | 1600 | 1103128710 | JW Marriott Hotel                                 |   | 35  |
| E7SW | 1600 |            | Flyover   | x | x 0 |
| E7NW | 1600 | 1103128050 | Arsenal House (West Wing)                         | x | 35  |
| W7NE | 1600 |            |   | x | 0   |
| W7SE | 1600 | 1103121141 | Seaview Commercial Building                       |   | 23  |
| W7SW | 1600 | 1103121112 | Connaught Harbourfront House                      |   | 22  |
| W7NW | 1600 |            |   | x | 0   |
| N0NE | 1800 | 1108244238 | 26 Nathan Road                                    |   | 28  |
| N0SE | 1800 | 1108244285 | Sheraton Hong Kong Hotel & Towers                 |   | 18  |

|       |      |            |   |    |    |   |
|-------|------|------------|---|----|----|---|
| N0SW  | 1800 |            | The Peninsula Hotel Office Tower        | 30 |    |   |
| N0NW  | 1800 | 1108244258 | The Kowloon Hotel                       | 18 |    |   |
| E8NE  | 1800 | 1103128761 | OZO Wesley                              | 21 |    |   |
| E8SE  | 1800 | 1103128744 | Effectual Building                      | 25 |    |   |
| E8SW  | 1800 | 1810183790 | One Hennessy                            | 22 |    |   |
| E8NW  | 1800 | 1103128356 | Lockhart Exchange Building              | 19 |    |   |
| W8NE  | 1800 | 1103120950 | No.9 Des Voeux Road West                | 25 |    |   |
| W8SE  | 1800 | 1103121358 | Kingdom Power Commercial Building       | 15 |    |   |
| W8SW  | 1800 | 1103121330 | Western Centre                          | 21 |    |   |
| W8NW  | 1800 | 1103121080 | Sing Kui Commercial Building            | 16 |    |   |
| N1NE  | 2000 | 1108244148 | Holiday Inn Golden Mile Hong Kong       | 20 |    |   |
| N1SE  | 2000 | 1108244060 | Mirador Mansion                         | 17 |    |   |
| N1SW  | 2000 | 1108244151 | I Square                                | 21 |    |   |
| N1NW  | 2000 | 1108244082 | I Square                                | 31 |    |   |
| E9NE  | 2000 | 1103128895 | Sun Hey Mansion                         | 17 |    |   |
| E9SE  | 2000 | 1103128896 | Shanghai Industrial Investment Building | 28 |    |   |
| E9SW  | 2000 | 1103128580 | Sze Bo Building                         | 16 |    |   |
| E9NW  | 2000 | 1103128583 | Hay Wah Building Block A                | 22 |    |   |
| W9NE  | 2000 | 1103121016 | Chiu Chow Association Building          | 10 |    |   |
| W9SE  | 2000 | 1103121249 | Yu Chu Lam Building                     | 9  |    |   |
| W9SW  | 2000 | 1810156458 | AVA128                                  | 29 |    |   |
| W9NW  | 2000 | 1103121008 | Lucky Commercial Centre                 | 24 |    |   |
| N2NE  | 2200 | 1108243793 | Comfort Building                        | 13 |    |   |
| N2SE  | 2200 | 1108243826 | HSBC Building Tsim Sha Tsui             | 14 |    |   |
| N2SW  | 2200 | 1108243833 | Kowloon Mosque and Islamic Centre       | ×  | 2  |   |
| N2NW  | 2200 | 1108243542 | Park Lane Shopper's Boulevard           | ×  | 2  |   |
| E10NE | 2200 | 1103128909 | Southorn Garden                         | 40 |    |   |
| E10SE | 2200 | 1103128900 | Southorn Centre                         | 32 |    |   |
| E10SW | 2200 | 1103128579 | China Overseas Building                 | 30 |    |   |
| E10NW | 2200 | 1103128578 | On Hong Commercial Building             | 24 |    |   |
| W10NE | 2200 | 1103120999 | Tak Tung House                          | 15 |    |   |
| W10SE | 2200 | 1103121193 | Luen Tak Building                       | 14 |    |   |
| W10SW | 2200 | 1103121183 | Wai Tak Building                        | 14 |    |   |
| W10NW | 2200 | 1103120982 | Wing Fat Mansion                        | 8  |    |   |
| N3NE  | 2400 | 1108243250 | Miramar Shopping Centre                 | 18 |    |   |
| N3SE  | 2400 | 1109609183 | The Mira Hong Kong                      | 18 |    |   |
| N3SW  | 2400 |            |   | ×  | ×  | 0 |
| N3NW  | 2400 | 1108243228 | Park Lane Shopper's Boulevard           | ×  | 2  |   |
| E11NE | 2400 | 1103128735 | Jade House                              | 16 |    |   |
| E11SE | 2400 | 1103128834 | Hang Seng Wanchai Building              | 30 |    |   |
| E11SW | 2400 | 1103128465 | Tung Wah Mansion                        | 21 |    |   |
| E11NW | 2400 | 1103128444 | Kwong Tak Mansion                       | 14 |    |   |
| W11NE | 2400 | 1103120926 | Tak May House                           | 5  |    |   |
| W11SE | 2400 | 1103121148 | Tung Che Commercial Centre              | 24 |    |   |
| W11SW | 2400 | 1103121139 | Ching Tak Building                      | 16 |    |   |
| W11NW | 2400 | 1103120932 | Wah Lap House                           | 5  |    |   |
| N4NE  | 2600 | 1108242804 | A. Kun Lock Building                    | 11 |    |   |
| N4SE  | 2600 | 1108242855 | Good Results Building                   | 12 |    |   |
| N4SW  | 2600 | 1108242973 | Park Lane Shopper's Boulevard           | ×  | 2  |   |
| N4NW  | 2600 | 1108242808 | Tsim Sha Tsui Police Station            | ×  | 11 |   |
| E12NE | 2600 | 1103128615 | Emperor Group Centre                    | 30 |    |   |

|       |      |            |                                     |    |
|-------|------|------------|-------------------------------------|----|
| E12SE | 2600 | 1103128646 | Caltex House                        | 21 |
| E12SW | 2600 | 1103128311 | Easey Commercial Building           | 22 |
| E12NW | 2600 | 1103128259 | Kwong Wah Mansion                   | 17 |
| W12NE | 2600 | 1103121082 | Tin Hing Building                   | 6  |
| W12SE | 2600 | 1103121419 | Siu Cheung Building                 | 6  |
| W12SW | 2600 | 1103121425 | Liang Ga Building                   | 22 |
| W12NW | 2600 | 1810159283 | Bohemian House                      | 31 |
| N5NE  | 2800 | 1108242144 | 238 Nathan Road                     | 21 |
| N5SE  | 2800 | 1108242261 | Prudential Centre                   | 22 |
| N5SW  | 2800 | 1108242382 | Shamrock Hotel                      | 10 |
| N5NW  | 2800 | 1108242315 | Pearl Oriental Tower                | 18 |
| E13NE | 2800 | 1103128154 | Kuo Wah Building                    | 16 |
| E13SE | 2800 | 1103128290 | W Square                            | 23 |
| E13SW | 2800 | 1109346356 | Yick Wah Building                   | 12 |
| E13NW | 2800 | 1109346361 | Luen Wo Building                    | 12 |
| W13NE | 2800 | 1103121272 | Kwan Yick Building Phase II Block B | 24 |
| W13SE | 2800 | 1103121646 | Chung Ah Building                   | 15 |
| W13SW | 2800 | 1103121710 | Lucky Building                      | 9  |
| W13NW | 2800 | 1810143106 | Upton                               | 46 |
| N6NE  | 3000 | 1108241669 | CHI Residences 314                  | 25 |
| N6SE  | 3000 | 1108241768 | May Ming Building                   | 11 |
| N6SW  | 3000 | 1108241727 | Hong Kiu Mansion                    | 15 |
| N6NW  | 3000 | 1108241688 | 315 Nathan Road                     | 10 |
| E14NE | 3000 | 1103127632 | Yau Kwong Building                  | 16 |
| E14SE | 3000 | 1103127766 | Opulent Building                    | 23 |
| E14SW | 3000 | 1103127526 | Henning House                       | 19 |
| E14NW | 3000 | 1103127403 | BOC Wan Chai Commercial Centre      | 23 |
| W14NE | 3000 | 1103121694 | Lun Fung Court                      | 35 |
| W14SE | 3000 | 1103121987 |                                     | 13 |
| W14SW | 3000 | 1103121900 | Pacific Plaza                       | 29 |
| W14NW | 3000 | 1103121540 | Hong Kong Plaza                     | 42 |
| N7NE  | 3200 | 1108240652 | Eaton Hotel                         | 10 |
| N7SE  | 3200 | 1108240865 | Manulife Provident Funds Place      | 18 |
| N7SW  | 3200 | 1108240829 | Nathan Hotel                        | 16 |
| N7NW  | 3200 | 1108240658 | Hang Shing Building                 | 16 |
| E15NE | 3200 | 1103127238 | Thai Kong Building                  | 23 |
| E15SE | 3200 | 1103127322 | Cameron Commercial Centre           | 22 |
| E15SW | 3200 | 1103127103 | 459-465 Henessey Road               | 15 |
| E15NW | 3200 | 1103127021 | East South Building                 | 15 |
| W15NE | 3200 |            | ×                                   | 0  |
| W15SE | 3200 | 1103121696 | Mei Sun Lau Block A                 | 24 |
| W15SW | 3200 | 1103121624 | Hong Kong Industrial Building       | 22 |
| W15NW | 3200 |            | ×                                   | 0  |
| N8NE  | 3400 | 1108240186 | Chak Fung House                     | 16 |
| N8SE  | 3400 | 1108240221 | Tang's Mansion                      | 12 |
| N8SW  | 3400 | 1108240283 | Kowloon Government Offices          | ×  |
| N8NW  | 3400 | 1108240246 | Tin Hau Temple                      | 2  |
| E16NE | 3400 | 1103127104 | The Goldmark                        | 23 |
| E16SE | 3400 | 1810079778 | Hysan Place                         | 40 |
| E16SW | 3400 | 1103126886 | Macau Yat Yuen Centre               | 30 |
| E16NW | 3400 | 1103126700 | East Point Centre (Old Wing)        | 18 |

|       |      |            |   |    |
|-------|------|------------|---|----|
| W16NE | 3400 | 1103121801 | Wo Fat Building                             | 20 |
| W16SE | 3400 | 1103121970 | Sum Way Mansion                             | 23 |
| W16SW | 3400 |            | ×   | 0  |
| W16NW | 3400 |            | ×   | 0  |
| N9NE  | 3600 | 1108239661 | Bangkok Bank Building                       | 24 |
| N9SE  | 3600 | 1108239696 | Oxford Commercial Building                  | 24 |
| N9NW  | 3600 | 1108239676 | Casa Hotel                                  | 15 |
| N9SW  | 3600 | 1810095790 | Casa Deluxe Hotel                           | 14 |
| E17NE | 3600 | 1103127364 | 60-62 Yee Wo Street                         | 12 |
| E17SE | 3600 | 1103127299 | McDonald's Building                         | 21 |
| E17SW | 3600 | 1103127113 | V Causeway Bay                              | 19 |
| E17NW | 3600 | 1103127060 | Causeway Bay Commercial Building            | 22 |
| N10NE | 3800 | 1108238725 | Wing Kiu Building                           | 16 |
| N10SE | 3800 | 1108238831 | Onward Building                             | 13 |
| N10SW | 3800 | 1108239101 | Lai Kee Mansion                             | 13 |
| N10NW | 3800 | 1108238565 | Bell House                                  | 22 |
| E18NE | 3800 | 1103127265 | Causeway Tower                              | 22 |
| E18SE | 3800 | 1103127365 | Catic Plaza                                 | 27 |
| E18SW | 3800 |            | Tai Hang Rd Flyover                         | ×  |
| E18NW | 3800 |            | Tai Hang Rd Flyover                         | ×  |
| N11NE | 4000 | 1108237754 | Wofoo Commercial Building                   | 24 |
| N11SE | 4000 | 1108237821 | Kelly Commercial Centre                     | 22 |
| N11SW | 4000 | 1108237866 | Full Win Commercial Centre                  | 24 |
| N11NW | 4000 | 1810178822 | Ladder Dundas                               | 19 |
| E19NE | 4000 |            | Causeway Bay Sports Ground                  | ×  |
| E19SE | 4000 | 1103126958 | Hong Kong Central Library                   | ×  |
| E19SW | 4000 |            | Victoria Park                               | ×  |
| E19NW | 4000 |            | Victoria Park                               | ×  |
| N12NE | 4200 | 1108236167 | Good Hope Building                          | 22 |
| N12SE | 4200 | 1108236428 | Hollywood Plaza                             | 22 |
| N12SW | 4200 | 1108236423 | Sun Hing Building                           | 29 |
| N12NW | 4200 | 1108236334 | Fee Tat Commercial Centre                   | 24 |
| E20NE | 4200 |            | Open Area                                   | ×  |
| E20SE | 4200 | 1103125871 | Queen's College                             | ×  |
| E20SW | 4200 |            | Victoria Park                               | ×  |
| E20NW | 4200 | 1103125126 | Park Towers Tower I                         | 49 |
| N13NE | 4400 | 1108235355 | Rex Building                                | 16 |
| N13SE | 4400 | 1108235445 | Toa Tak Building                            | 16 |
| N13SW | 4400 | 1108235450 | Wu Sang House                               | 26 |
| N13NW | 4400 | 1108246338 | HSBC Building Mongkok                       | 17 |
| E21NE | 4400 | 1103124444 | L'hotel Causeway Bay Harbour View Hong Kong | 40 |
| E21SE | 4400 | 1103124762 | Kiu Hing Mansion                            | 26 |
| E21SW | 4400 | 1103124878 | Park Towers Tower II                        | 30 |
| E21NW | 4400 | 1103124522 | Park View Mansion                           | 23 |
| N14NE | 4600 | 1108233780 | T.O.P This is our place                     | 23 |
| N14SE | 4600 | 1108246239 | Argyle Centre Phase 1                       | 23 |
| N14SW | 4600 | 1810106386 | Le Diamant                                  | 20 |
| N14NW | 4600 | 1108233928 | Silvercorp Intl Tower                       | 26 |
| E22NE | 4600 | 1103122595 | Belilos Public School                       | ×  |
| E22SE | 4600 | 1103123565 | King Yu Court                               | 32 |
| E22SW | 4600 | 1103123519 | Wilson Court                                | 24 |

|       |      |            |                                     |     |    |
|-------|------|------------|-------------------------------------|-----|----|
| E22NW | 4600 | 1103123250 | Sun Ying Mansion                    | 21  |    |
| N15NE | 4800 | 1108232023 | Pioneer Centre                      | 25  |    |
| N15SE | 4800 | 1108232710 | Mascot House                        | 17  |    |
| N15SW | 4800 | 1108232776 | Kingland Apartments                 | 17  |    |
| N15NW | 4800 | 1109261336 | Carprio Mansion                     | 15  |    |
| E23NE | 4800 |            | Comfort Terrace Rest Garden         | × × |    |
| E23SE | 4800 | 1103121981 | Comfort Gardens                     | 26  |    |
| E23SW | 4800 | 1103121975 | Kwai Hung Holdings Centre           | 29  |    |
| E23NW | 4800 | 1103121811 | Kin Ga Building                     | 24  |    |
| N16NE | 5000 | 1108230953 | Mong Kok Police Station             | ×   | 10 |
| N16SE | 5000 | 1108231548 | Edward Mansion                      | 15  |    |
| N16SW | 5000 | 1108231496 | Bijou Apartments                    | 28  |    |
| N16NW | 5000 | 1108231299 | Kwan Ngan House                     | 14  |    |
| E24NE | 5000 | 1103120818 | Fortress Metro Tower Block D        | 36  |    |
| E24SE | 5000 | 1103120938 | Fortress Metro Tower Block A        | 36  |    |
| E24SW | 5000 | 1103120830 | Ying Wong House                     | 12  |    |
| E24NW | 5000 | 1103120777 | Chung Nam Mansion                   | 19  |    |
| N17NE | 5200 | 1108230402 | Prosperity Commercial Building      | 23  |    |
| N17SE | 5200 | 1108230452 | Tai Sang Bank Building              | 15  |    |
| N17SW | 5200 | 1108230503 | Amber House                         | 13  |    |
| N17NW | 5200 | 1108230410 | Lee Tat Building                    | 14  |    |
| E25NE | 5200 | 1103120497 | North Point Centre Block A          | 27  |    |
| E25SE | 5200 | 1103120557 | North Point Centre Block B          | 27  |    |
| E25SW | 5200 | 1103120445 | Olympia Plaza                       | 25  |    |
| E25NW | 5200 | 1103120388 | Southern Building                   | 20  |    |
| N18NE | 5400 | 1108229291 | Shing To Building                   | 16  |    |
| N18SE | 5400 | 1810000587 | Emerald Twenty Eight                | 34  |    |
| N18SW | 5400 | 1108229363 | Hang Shing Building                 | 14  |    |
| N18NW | 5400 | 1108229242 | Tai Po House                        | 12  |    |
| E26NE | 5400 | 1103120381 | Mido Apartments                     | 16  |    |
| E26SE | 5400 | 1103120396 | Hang Ying Building                  | 19  |    |
| E26SW | 5400 | 1103120276 | Coronet Court                       | 15  |    |
| E26NW | 5400 | 1103120290 | Hang Seng North Point Building      | 23  |    |
| N19NE | 5600 | 1108228236 | Fairview Garden                     | 21  |    |
| N19SE | 5600 | 1108228278 | Yau Luen Apartments                 | 11  |    |
| N19SW | 5600 | 1108228341 | 33 Maple Street                     | 6   |    |
| N19NW | 5600 | 1108228149 | Hoi Cheung Building                 | 15  |    |
| E27NE | 5600 | 1103120312 | Everwin Building                    | 25  |    |
| E27SE | 5600 | 1103120334 | Ming Yuen Centre                    | 28  |    |
| E27SW | 5600 | 1103120221 | Henan Electric Development Building | 28  |    |
| E27NW | 5600 | 1103120100 | Kiu Kwan Mansion Block A            | 28  |    |
| N20NE | 5800 | 1108226640 | Pak Far Building                    | 7   |    |
| N20SE | 5800 | 1108226735 | Tung Lo Court Block B               | 12  |    |
| N20SW | 5800 | 1108227078 | 45 Tai Po Road                      | 13  |    |
| N20NW | 5800 | 1108226958 | 1A Un Chau Steet                    | 8   |    |
| E28NE | 5800 | 1103120219 | Roca Centre Block 2                 | 24  |    |
| E28SE | 5800 | 1103120249 | Maylun Apartments                   | 17  |    |
| E28SW | 5800 | 1103120091 | On Ning Building                    | 17  |    |
| E28NW | 5800 | 1103120068 | Chu Kee Building                    | 20  |    |
| N21NE | 6000 | 1108225865 | Ka Shun Building                    | 11  |    |
| N21SE | 6000 | 1108225903 | Penta House                         | 12  |    |

|       |      |            |   |   |    |   |
|-------|------|------------|---|---|----|---|
| N21SW | 6000 | 1108226016 | Hip Fook Building                                   |   | 11 |   |
| N21NW | 6000 | 1108225950 | Wei Sun Building                                    |   | 12 |   |
| E29NE | 6000 | 1103120125 | Island Place Tower                                  |   | 23 |   |
| E29SE | 6000 | 1103120148 | HKU School of Professional and Continuing Education | × | 23 |   |
| E29SW | 6000 | 1103119944 | North Point Industrial Building                     |   | 22 |   |
| E29NW | 6000 | 1103119910 | Marble Road Telephone Exchange                      |   | 4  |   |
| N22NE | 6200 |            |   | × | ×  | 0 |
| N22SE | 6200 |            |   | × | ×  | 0 |
| N22SW | 6200 | 1108225465 | Ying Lun Building                                   |   | 10 |   |
| N22NW | 6200 | 1108225421 | Furama Building                                     |   | 12 |   |
| E30NE | 6200 | 1103119981 | Healthy Gardens Block C                             |   | 27 |   |
| E30SE | 6200 | 1103120003 | Healthy Gardens Block B                             |   | 27 |   |
| E30SW | 6200 |            | King's Road Playground                              | × | ×  | 0 |
| E30NW | 6200 |            | Flyover   | × | ×  | 0 |
| N23NE | 6400 | 1108224661 | Kin Man Building                                    |   | 11 |   |
| N23SW | 6400 | 1108224764 | Celebrity Commercial Centre                         |   | 14 |   |
| N23SW | 6400 | 1108224941 | Precious Blood Hospital                             | × | 5  |   |
| N23NW | 6400 | 1108224749 | 127 Castle Peak Road                                |   | 5  |   |
| E31NE | 6400 | 1103120007 | Hong Shing Court                                    |   | 27 |   |
| E31SE | 6400 | 1103119962 | Hong Cheung Court                                   |   | 27 |   |
| E31SW | 6400 | 1103119879 | 625 King's Road                                     |   | 25 |   |
| E31NW | 6400 | 1103119892 | 633 King's Road                                     |   | 35 |   |
| N24NE | 6600 | 1108224084 | 136-138 Castle Peak Road                            |   | 5  |   |
| N24SE | 6600 | 1108224091 | Wai Lee Commercial Building                         |   | 13 |   |
| N24SW | 6600 | 1108224252 | Hung Yu Mansion Block B                             |   | 10 |   |
| N24NW | 6600 | 1108224142 | Prince Theatre                                      |   | 4  |   |
| E32NE | 6600 | 1103120191 | Man Cheung House                                    |   | 6  |   |
| E32SE | 6600 | 1103120117 | AIA Hong Kong Tower                                 |   | 19 |   |
| E32SW | 6600 | 1103119955 | Prosperity Millennia Plaza                          |   | 27 |   |
| E32NW | 6600 | 1103120026 | Harbour Plaza, North Point                          |   | 27 |   |
| N25NE | 6800 | 1108223515 | Hing Lung Building                                  |   | 11 |   |
| N25SE | 6800 | 1108223658 | Apollo Building                                     |   | 10 |   |
| N25SW | 6800 | 1108223789 | Spring Wide Mansion                                 |   | 12 |   |
| N25NW | 6800 | 1108223543 | 237 Castle Peak Road                                |   | 10 |   |
| E33NE | 6800 | 1810186401 | Golden Horse Mansion                                |   | 27 |   |
| E33SE | 6800 | 1103120430 | Mansion Building                                    |   | 13 |   |
| E33SW | 6800 | 1103120407 | Lai Wah Mansion                                     |   | 13 |   |
| E33NW | 6800 | 1103120475 | Ritz Garden Apartments                              |   | 11 |   |
| N26NE | 7000 | 1108223046 | 278 Castle Peak Road                                |   | 5  |   |
| N26SE | 7000 | 1108223049 | 276 Castle Peak Road                                |   | 5  |   |
| N26SW | 7000 | 1108223170 | 291 Castle Peak Road                                |   | 6  |   |
| N26NW | 7000 | 1108223154 | 293 Castle Peak Road                                |   | 5  |   |
| E34NE | 7000 | 1103121003 | Quarry Bay Station                                  | × | 3  |   |
| E34SE | 7000 | 1103120983 | North Point Government Primary School               | × | 9  |   |
| E34SW | 7000 | 1103120812 | Wai Fong Court                                      |   | 23 |   |
| E34NW | 7000 | 1103120796 | Tor Po Mansion                                      |   | 9  |   |
| N27NE | 7200 | 1810145002 | Heya Star Tower 2                                   |   | 31 |   |
| N27SE | 7200 | 1108222564 | Shun Lee Commercial Building                        |   | 23 |   |
| N27SW | 7200 | 1108222663 | 363 Castle Peak Road                                |   | 8  |   |
| N27NW | 7200 | 1108222641 | Po Sang Bank Building                               |   | 11 |   |
| N28NE | 7400 | 1108222012 | Kincheng Commercial Centre                          |   | 25 |   |

|       |      |            |   |    |
|-------|------|------------|---|----|
| N28SE | 7400 | 1108222229 | Tone King Building                                    | 26 |
| N28SW | 7400 | 1810142493 | Heya Delight  | 33 |
| N28NW | 7400 | 1108222109 | Florence Plaza  | 36 |
| N29NE | 7600 | 1108222026 | Por Yen Building                                      | 14 |
| N29SE | 7600 | 1108222031 | Park Building   | 22 |
| N29SW | 7600 | 1108222149 | Federal Mansion Block A                               | 12 |
| N29NW | 7600 | 1108222206 | 473 Castle Peak Road                                  | 9  |
| N30NE | 7800 | 1108222285 | Peninsula Tower                                       | 26 |
| N30SE | 7800 | 1108222155 | V GA Building   | 20 |
| N30SW | 7800 | 1108222376 | Lai Cheong Factory Building                           | 8  |
| N30NW | 7800 | 1108222452 | Hong Kong Spinners Industrial Building Phase VI       | 10 |
| N31NE | 8000 | 1108222607 | Fung Wah Factorial Building                           | 7  |
| N31SE | 8000 | 1108222447 | Wing Kut Industrial Building                          | 12 |
| N31SW | 8000 | 1108222674 | Kowloon Plaza   | 17 |
| N31NW | 8000 | 1108222796 | Hong Kong Spinners Industrial Building Phase I And II | 10 |
| N32NE | 8200 | 1108222836 | Ka Ming Court   | 12 |
| N32SE | 8200 | 1108222878 | Trendy Centre   | 34 |
| N32SW | 8200 | 1108223122 | Hong Kong Industrial Centre Block A                   | 12 |
| N32NW | 8200 | 1108223015 | Hong Kong Industrial Centre Block B                   | 12 |
| N33NE | 8400 | 1108223041 | Hop Hing Industrial Building                          | 13 |
| N33SE | 8400 | 1108223284 | International Industrial Building                     | 12 |
| N33SW | 8400 | 1108223054 | Charm Centre  | 16 |
| N33NW | 8400 | 1108223340 | Tong Yuen Factory Building                            | 12 |

## 8.2 Processed Data

### 8.2.1 North Transect

| Code | Distance from PLVI (m) | Mean number of storeys<br>(errors and outliers removed) | Spearman Rank Correlation Calculations |                           |        |
|------|------------------------|---|--|---------------------------|--------|
|      |                        |   | Rank of distance                       | Rank of number of storeys | $d^2$  |
| 0    | 1800                   | 23.5  | 1                                      | 32                        | 961    |
| 1    | 2000                   | 19.3  | 2                                      | 29                        | 729    |
| 2    | 2200                   | 13.5  | 3                                      | 13                        | 100    |
| 3    | 2400                   | 18.0  | 4                                      | 24                        | 400    |
| 4    | 2600                   | 11.5  | 5                                      | 8                         | 9      |
| 5    | 2800                   | 17.8  | 6                                      | 23                        | 289    |
| 6    | 3000                   | 15.3  | 7                                      | 19                        | 144    |
| 7    | 3200                   | 15.0  | 8                                      | 18                        | 100    |
| 8    | 3400                   | 14.0  | 9                                      | 15                        | 36     |
| 9    | 3600                   | 19.3  | 10                                     | 28                        | 324    |
| 10   | 3800                   | 16.0  | 11                                     | 20.5                      | 90.25  |
| 11   | 4000                   | 22.3  | 12                                     | 30                        | 324    |
| 12   | 4200                   | 24.3  | 13                                     | 33                        | 400    |
| 13   | 4400                   | 18.8  | 14                                     | 26                        | 144    |
| 14   | 4600                   | 23.0  | 15                                     | 31                        | 256    |
| 15   | 4800                   | 18.5  | 16                                     | 25                        | 81     |
| 16   | 5000                   | 19.0  | 17                                     | 27                        | 100    |
| 17   | 5200                   | 16.3  | 18                                     | 22                        | 16     |
| 18   | 5400                   | 14.0  | 19                                     | 15                        | 16     |
| 19   | 5600                   | 13.3  | 20                                     | 11.5                      | 72.25  |
| 20   | 5800                   | 10.0  | 21                                     | 3.5                       | 306.25 |
| 21   | 6000                   | 11.5  | 22                                     | 8                         | 196    |
| 22   | 6200                   | 11.0  | 23                                     | 6                         | 289    |
| 23   | 6400                   | 10.0  | 24                                     | 3.5                       | 420.25 |
| 24   | 6600                   | 8.0   | 25                                     | 2                         | 529    |
| 25   | 6800                   | 10.8  | 26                                     | 5                         | 441    |
| 26   | 7000                   | 5.3   | 27                                     | 1                         | 676    |
| 27   | 7200                   | 14.0  | 28                                     | 15                        | 169    |
| 28   | 7400                   | 25.5  | 29                                     | 34                        | 25     |
| 29   | 7600                   | 14.3  | 30                                     | 17                        | 169    |
| 30   | 7800                   | 16.0  | 31                                     | 20.5                      | 110.25 |
| 31   | 8000                   | 11.5  | 32                                     | 8                         | 576    |
| 32   | 8200                   | 12.0  | 33                                     | 10                        | 529    |
| 33   | 8400                   | 13.3  | 34                                     | 11.5                      | 506.25 |
|      |                        |   |  | $\sum d^2$                | 9533.5 |

Table \_\_\_. Processed data table for the north transect.

### 8.2.2 East Transect

| Code | Distance from PLVI (m) | Mean number of storeys<br>(errors and outliers removed) | Spearman Rank Correlation Calculations |                           |        |
|------|------------------------|---|--|---------------------------|--------|
|      |                        |   | Rank of distance                       | Rank of number of storeys | $d^2$  |
| 0    | 200                    |   |  |                           |        |
| 1    | 400                    | 29.0  | 1                                      | 25                        | 576    |
| 2    | 600                    | 25.5  | 2                                      | 17                        | 225    |
| 3    | 800                    | 32.5  | 3                                      | 28                        | 625    |
| 4    | 1000                   |   |  |                           |        |
| 5    | 1200                   | 42.0  | 4                                      | 31                        | 729    |
| 6    | 1400                   | 35.0  | 5                                      | 29.5                      | 600.25 |
| 7    | 1600                   | 35.0  | 6                                      | 29.5                      | 552.25 |
| 8    | 1800                   | 21.8  | 7                                      | 12                        | 25     |
| 9    | 2000                   | 20.8  | 8                                      | 11                        | 9      |
| 10   | 2200                   | 31.5  | 9                                      | 27                        | 324    |
| 11   | 2400                   | 20.3  | 10                                     | 9.5                       | 0.25   |
| 12   | 2600                   | 22.5  | 11                                     | 13.5                      | 6.25   |
| 13   | 2800                   | 15.8  | 12                                     | 1                         | 121    |
| 14   | 3000                   | 20.3  | 13                                     | 9.5                       | 12.25  |
| 15   | 3200                   | 18.8  | 14                                     | 6                         | 64     |
| 16   | 3400                   | 27.8  | 15                                     | 23                        | 64     |
| 17   | 3600                   | 18.5  | 16                                     | 5                         | 121    |
| 18   | 3800                   | 24.5  | 17                                     | 15                        | 4      |
| 19   | 4000                   |   |  |                           |        |
| 20   | 4200                   |   |  |                           |        |
| 21   | 4400                   | 29.8  | 18                                     | 26                        | 64     |
| 22   | 4600                   | 25.7  | 19                                     | 18                        | 1      |
| 23   | 4800                   | 26.3  | 20                                     | 20                        | 0      |
| 24   | 5000                   | 25.8  | 21                                     | 19                        | 4      |
| 25   | 5200                   | 24.8  | 22                                     | 16                        | 36     |
| 26   | 5400                   | 18.3  | 23                                     | 4                         | 361    |
| 27   | 5600                   | 27.3  | 24                                     | 22                        | 4      |
| 28   | 5800                   | 19.5  | 25                                     | 7                         | 324    |
| 29   | 6000                   | 22.5  | 26                                     | 13.5                      | 156.25 |
| 30   | 6200                   | 27.0  | 27                                     | 21                        | 36     |
| 31   | 6400                   | 28.5  | 28                                     | 24                        | 16     |
| 32   | 6600                   | 19.8  | 29                                     | 8                         | 441    |
| 33   | 6800                   | 16.0  | 30                                     | 2.5                       | 756.25 |
| 34   | 7000                   | 16.0  | 31                                     | 2.5                       | 812.25 |
|      |                        |   |  | $\sum d^2$                | 9533.5 |

Table \_\_\_. Processed data table for the east transect.

### 8.2.3 South Transect

| Code | Distance from PLVI (m) | Mean number of storeys<br>(errors and outliers removed) | Spearman Rank Correlation Calculations |                           |        |
|------|------------------------|---|--|---------------------------|--------|
|      |                        |   | Rank of distance                       | Rank of number of storeys | $d^2$  |
| 0    | 200                    | 49.0  | 1                                      | 5                         | 16     |
| 1    | 400                    | 34.0  | 2                                      | 3                         | 1      |
| 2    | 600                    | 30.3  | 3                                      | 2                         | 1      |
| 3    | 800                    | 43.7  | 4                                      | 4                         | 0      |
| 4    | 1000                   | 58.5  | 5                                      | 6                         | 1      |
| 5    | 1200                   | 22.0  | 6                                      | 1                         | 25     |
|      |                        |   |  | $\sum d^2$                | 9533.5 |

Table \_\_\_. Processed data table for the south transect.

### 8.2.4 West Transect

| Code | Distance from PLVI (m) | Mean number of storeys<br>(errors and outliers removed) | Spearman Rank Correlation Calculations |                           |        |
|------|------------------------|---|--|---------------------------|--------|
|      |                        |   | Rank of distance                       | Rank of number of storeys | $d^2$  |
| 0    | 200                    |   |  |                           |        |
| 1    | 400                    | 30.0  | 1                                      | 15.5                      | 210.25 |
| 2    | 600                    | 20.8  | 2                                      | 8                         | 36     |
| 3    | 800                    | 22.8  | 3                                      | 11                        | 64     |
| 4    | 1000                   | 23.7  | 4                                      | 13                        | 81     |
| 5    | 1200                   | 20.5  | 5                                      | 7                         | 4      |
| 6    | 1400                   | 25.0  | 6                                      | 14                        | 64     |
| 7    | 1600                   | 22.5  | 7                                      | 10                        | 9      |
| 8    | 1800                   | 19.3  | 8                                      | 6                         | 4      |
| 9    | 2000                   | 18.0  | 9                                      | 5                         | 16     |
| 10   | 2200                   | 12.8  | 10                                     | 2                         | 64     |
| 11   | 2400                   | 12.5  | 11                                     | 1                         | 100    |
| 12   | 2600                   | 16.3  | 12                                     | 4                         | 64     |
| 13   | 2800                   | 16.0  | 13                                     | 3                         | 100    |
| 14   | 3000                   | 30.0  | 14                                     | 15.5                      | 2.25   |
| 15   | 3200                   | 23.0  | 15                                     | 12                        | 9      |
| 16   | 3400                   | 21.5  | 16                                     | 9                         | 49     |
|      |                        |   |  | $\sum d^2$                | 9533.5 |

Table \_\_\_. Processed data table for the west transect.

### 8.2.5 Combined

| Code | Distance from PLVI (m) | Mean number of storeys<br>(errors and outliers removed) | Spearman Rank Correlation Calculations |                           |        |
|------|------------------------|---|--|---------------------------|--------|
|      |                        |   | Rank of distance                       | Rank of number of storeys | $d^2$  |
| 1    | 200                    |   |  |                           |        |
| 2    | 400                    | 29.5  | 1                                      | 40                        | 1521   |
| 3    | 600                    | 24.9  | 2                                      | 37                        | 1225   |
| 4    | 800                    | 24.4  | 3                                      | 36                        | 1089   |
| 5    | 1000                   | 23.7  | 4                                      | 31                        | 729    |
| 6    | 1200                   | 24.3  | 5                                      | 35                        | 900    |
| 7    | 1400                   | 28.3  | 6                                      | 39                        | 1089   |
| 8    | 1600                   | 26.7  | 7                                      | 38                        | 961    |
| 9    | 1800                   | 21.5  | 8                                      | 26                        | 324    |
| 10   | 2000                   | 20.3  | 9                                      | 21                        | 144    |
| 11   | 2200                   | 20.4  | 10                                     | 22                        | 144    |
| 12   | 2400                   | 16.7  | 11                                     | 11                        | 0      |
| 13   | 2600                   | 17.8  | 12                                     | 13                        | 1      |
| 14   | 2800                   | 16.5  | 13                                     | 10                        | 9      |
| 15   | 3000                   | 21.1  | 14                                     | 25                        | 121    |
| 16   | 3200                   | 18.1  | 15                                     | 14                        | 1      |
| 17   | 3400                   | 22.8  | 16                                     | 29                        | 169    |
| 18   | 3600                   | 18.9  | 17                                     | 18                        | 1      |
| 19   | 3800                   | 18.8  | 18                                     | 17                        | 1      |
| 20   | 4000                   | 22.3  | 19                                     | 28                        | 81     |
| 21   | 4200                   | 24.3  | 20                                     | 33.5                      | 182.25 |
| 22   | 4400                   | 24.3  | 21                                     | 33.5                      | 156.25 |
| 23   | 4600                   | 24.1  | 22                                     | 32                        | 100    |
| 24   | 4800                   | 21.9  | 23                                     | 27                        | 16     |
| 25   | 5000                   | 22.9  | 24                                     | 30                        | 36     |
| 26   | 5200                   | 20.5  | 25                                     | 23                        | 4      |
| 27   | 5400                   | 18.6  | 26                                     | 16                        | 100    |
| 28   | 5600                   | 20.3  | 27                                     | 20                        | 49     |
| 29   | 5800                   | 14.8  | 28                                     | 8                         | 400    |
| 30   | 6000                   | 13.6  | 29                                     | 5                         | 576    |
| 31   | 6200                   | 19.0  | 30                                     | 19                        | 121    |
| 32   | 6400                   | 20.6  | 31                                     | 24                        | 49     |
| 33   | 6600                   | 13.9  | 32                                     | 6                         | 676    |
| 34   | 6800                   | 13.4  | 33                                     | 4                         | 841    |
| 35   | 7000                   | 8.8   | 34                                     | 1                         | 1089   |
| 36   | 7200                   | 18.3  | 35                                     | 15                        | 400    |
| 37   | 7400                   | 30.0  | 36                                     | 41                        | 25     |
| 38   | 7600                   | 14.3  | 37                                     | 7                         | 900    |
| 39   | 7800                   | 16.0  | 38                                     | 9                         | 841    |
| 40   | 8000                   | 11.5  | 39                                     | 2                         | 1369   |
| 41   | 8200                   | 17.5  | 40                                     | 12                        | 784    |
| 42   | 8400                   | 13.3  | 41                                     | 3                         | 1444   |
|      |                        |   | $\sum d^2$                             | 9533.5                    |        |

**Table \_\_.** Processed data table for all combined transects.