

CASE STUDY

HONG KONG – NORTH POINT

1. INTRODUCTION 2. CHARACTER 3. BACKGROUND 4. ZONING ANALYSIS 5. APPENDIX TEAM Mengqi Cao Zixuan Zha

DATE 3/2021



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NEIGHBORHOOD



1] CASE STUDY INTRODUCTION HONG KONG – NORTH POINT

1.1] LOCATION & OVERVIEW

4

HONG KONG – NORTH POINT

2] CHARACTER

2.1] OVERALL LAYOUTS











Typical building types

office building:

20-30 story towers on commercial podiums (podiums are typically between 3 and 8 floors)

Residential Slab building 10-story residential street wall buildings with ground floor commercial uses

Residential Tower Buildings on a Base 20-30 story residential high-rise towers typically above a 2 to 3 story commercial podium



CASE STUDY

HONG KONG - NORTH POINT

3] BACKGROUND

3] BACKGROUND

3.1] Relevant History

Java Street

 1930s: named after the Jawa Steamship Company at this area, which was specialized in passenger transport and trade with the Netherlands



North Point

- mixed-use urban area in the in the northeastern part of Hong Kong Island; by the end of the 1960's North Point was listed as the most densely populated place on the planet in the Guinness Book of World Record
- Parts of North Point have been inhabited since before the British arrived in the mid-19th century
 During the Chinese Civil War, a large number of the rich
- During the Chinese Civil War, a large number of the rich and middle class from Shanghai fled to Hong Kong to escape the turmoil of war, many of them settled in North Point. In 1950, North Point became known as "Little Shanghai", since in the minds of many, it has already become the replacement for the surrendered Shanghai in China.
- The second group that moved to North Point were the Hokkien Fujianese, who were mostly displaced by political events in China but then soon mostly moved to countries in Southeast Asia. The area became known as "Little Fujian".

HONG KONG – NORTH POINT

Bus station

Tram station

Shopping mall

Subway Station

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Chun Yeung Street

- 1920s: Guo Chun Yeung, a wealthy businessman from Southeast Asia's Fujian province, developed the street into residential development
- Typical Hokkien trade settlements in Hong Kong

3.2] Accessibility

Well served neighborhood

- Numerous Transportation Options within study area 2 tram station; 5 bus station; 1 subway station
- Good access to Public space public parks & waterfront area
- Close to markets and groceries food market at Chun Yueng Street Houfu Shopping Center (1 of the 5 largest shopping malls at north point)
- Close to the city main road high level facilities: banks, government office

Existing drawbacks:

- Vehicles occupy the sidewalks for pedestrians
- City peddlers occupy the streets and roads
- Narrow public space



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North Point Housing related statistics

- Residents bear comparably high purchasing power (higher median income
- Large proportion of residents have high school educational level or above (85.9%)
- Larger average living space compare to the average level of HK/East District
- High density population area

Education	Primary	Secondary	College
	20.0%	47.3%	32.7%
Hong Kong			
	17.0%	44.6%	38.4%
East District			
	14.1%	43.4%	42.5%
North Point			
Household			
Income	Top 25%	Medium	Last 25%
Income	HK\$ 46 250	HK\$ 25 000	HK\$ 12 000
Hong Kong			
	HK\$ 55 700	HK\$ 29 830	HK\$ 13 950
East District			
	HK\$ 59 160	HK\$ 30 000	HK\$ 14 000
North Point			



Resident population @	in Housing Market Area	
Total population 🔞	555 034	106 822
Sex ratio 🔞	819	762

Source: Hongkong census and statistic department, 2016 http://census.centamap.com/hong-kong/Eastern/CHMA/North-Point

NG KONG – NORTH POINT	3] BACKGROUND	3.4] Planning Framework



Planning system:

Hong Kong Planning department prepares development strategies at the **territorial level** and **various types of statutory and departmental plans at the district/local level**. In preparing these plans, reference will be made to **the Hong Kong Planning Standards and Guidelines**

- Territorial Development Strategy

The territorial development strategy provides a broad territorial planning framework to guide future development and provision of strategic infrastructure and serves as a basis for the planning of strategic growth areas and the preparation of district plans.

- Statutory Plans

The statutory plans has the following 3 major functions: 1) regulating development through specifying the types of permitted land-uses and development parameters on individual parcels of land; 2) reserving land for various types of uses; 3) undertaking enforcement and prosecution actions against unauthorized developments in the rural New Territories.

- Departmental Plans

layout plans

The departmental plans and layout plans zoom into a more specific level and provide more detailed level planning parameters

https://www.pland.gov.hk/pland_en/press/publication/ar_19/pdf/ar2019_en.pdf



	7	ROADSPACE	Roadspace is assumed to be one sixth(16.7%) of DSA(Development Site Area) except for podium development in which no interna roads are required.		
	8	OPEN SPACE	1m ² of LOS(Local Open Space	ace) per person when there are more than 500 persons.	

9 SCHOOL FACILITIES Depend on the combination of site area and demographic information



DENSITY ZONING: ZONE $1 \rightarrow R(A)$ in Hong Kong Island \rightarrow Maximum Domestic Plot Ratio = 8/9/10

Urban Design Guidelines:

• 1] Reducing Site Coverage and Allow for more Open Space at grade:



Figure 47 Reducing Site Coverage of the Podia to Allow More Open Space at Grade

Compact integrated developments and podium structures with full or large ground coverage on extensive sites typically found in Hong Kong are particularly impeding air movement and should be avoided where practicable. The following measures should be applied at the street level for large development/ redevelopment sites particularly in the existing

- urban areas:
- providing setback parallel to the prevailing wind;
- designating non-building areas for sub-division of large land parcels;

creating voids in façades facing wind direction; and/or
reducing site coverage of the podia to allow more open space at grade (Figure 47).



Stepping building height concept can help optimize the wind capturing potential of development itself.





District: C/R

Landuse: Commercial/ Residential as Mixed-Use Zones • Help balance travel flows at peak hours

Height limitation: 110mPD/ 120mPD (principal datum) depends on its location

Site Coverage: 33.33% for buildings higher than 61m

Column 1 Uses always permitted	Column 2 Uses that may be permitted with or without conditions on application to the Town Planning Board
Ambulance Depot Eating Piloce (not elsewhere specified) Exhibition or Convention Hall Flat Government Use (not elsewhere specified) Hotel House Library Market (not elsewhere specified) Off-course Betting Centre Office Pilace of Entertainment Private Club Public Unity Installation Public Vehicle Park (excluding container vehicle) Residential Institution School (in free-standing purpose-designed school building, in a commercial building optim of an existing building only) Shop and Services (not elsewhere specified) Social Welfare Facility Utihy Installation for Private Project	Broadcasting, Television and/or Film Studio Commercial Bathhouse/Massage Establishment Eating Place (Cooked Food Centre only) Educational Institution Government Refuse Collection Point Hoopital Information Technology and Telecommunications Industries Institutional Use (not elsewhere specified) Market (Hawker Centre only) Mass Transit Railway Vent Shaft and/or Other Structure above Ground Level other than Entrances Pertol Filling Station Phace of Recreation, Sports or Culture Public Convenience Public Transport Terminus or Station Recyclable Collection Centre Religious Institution School (not elsewhere specified) Shop and Services (Motor-vehicle Showroom and Printing, Publishing and Allied Industries only) Training Centre

Commercial/ Residential Zones as "Mixed Use Zones"

Residential and office uses are complementary in terms of the demands they make on transport systems in that when
one is generating trips the other is attracting them and vice versa. This may be expected to help balance travel
flows in each direction at peak hours.

Regulations on Height:

 On land designated "Commercial/Residential", no new development, or addition, alteration and/or modification to or redevelopment of an existing building shall result in a total development and/or redevelopment in excess of the maximum building heights, in terms of metres above Principal Datum, as stipulated on the Plan, or height of the existing building, whichever is the greater.

SOURCE: HONG KONG PLANNING AREA NO.8 APPROVED NORTH POUNT OUTLINE ZONING PLAN NO.S/H8/26

4] ZONING ANALYSIS

Urban Design Guidelines:

• 2] Building Free Zone: building heights are capped so as to stay below the skyline

It has been generally supported by the community that ridgelines / peaks are valuable assets and their preservation should be given special consideration as far as possible in the process of development.

The Metroplan (1991) guidelines which recommended 20% to 30% building free zone below selected sections of ridgelines (Figure 2) could be used as a starting point, but allowing flexibility for relaxation on individual merits and for special landmark buildings to give punctuation effects at suitable locations.



Figure 2 Building Free Zone to Preserve Views to Ridgelines



2] Considerations of Views to the Ridgelines: Building Height Restriction

The building height restrictions are to preserve the views to the ridgelines from public viewpoints and to maintain a stepped building height concept recommended in the Urban Design Guidelines Study with lower buildings along the waterfront, taking into account the local area context, the findings of an Expert Evaluation on Air Ventilation Assessment (AVA EE) of wind circulation in the area, and the need to maintain visually compatible building masses in the wider setting.

the area, and the need to maintain visually compatible building masses in the wider setting. There are four height bands in general – 100 metres above Principal Datum (mPD), 110mPD, 120mPD and 130mPD in the Area for the "C", "C/R", "R(A)" and "R(E)" zones - increasing progressively from the waterfront to the inland and foothill areas. The proposed building height bands help preserve views to the ridgelines, achieve a stepped height profile for visual permeability and wind penetration and circulation, reduce the solidness of the Area and maintain a more intertwined relationship with the Victoria Harbour edge.

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HONG KONG – NORTH POINT
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4] ZONING ANALYSIS

4.3] ZONING EXPLAINED

5] URBAN DESIGN GUIDELINES

3] Human Scale:



Figure 17 Dwarfed by Tower Podium Reinforces Human Scale

Human scale design elements such as perimeter arcades should be provided in order to create an intermediate scale between human and building. **Building façade** and **podium edge**, in terms of architectural design, architectural detailing and in the choice of building materials, should have interest, particularly at ground and first floor level.











Cultivating community green networks

Identify projects for community gardens, gardens in home/ office/ schools and urban farms, and encourage communal open spaces in developments at multiple scales and levels

Reinventing the "Green and Blue System" networks

The study area is closed to the waterfront area. However, current green space and waterways are fragmented. Cultivating the community green networks and gradually developing a green and blue system would be the next step to better the community environment.



Sunlight for Residence

When regulated the height for each building, take into account the sunlight condition of residential buildings nearby

Climate issues: Flood risk

The mean sea level has risen by 30mm per decade between 1954 and 2015 .

Responding actions:

- Appraise and identify the risk level for places in coastal floodplains and map the "100-year floodplain", which is the area that will be inundated by the flood event having a 1-percent chance of being equaled in any given year
- Develop and implement guidelines for coastal floodrisk management that will enable authorities to seek different rules:
 - Optional regulations for height or building façade or setback should be allowed for buildings in areas with flood risk
 - Regulations would exempt floor area or specific land-use regulations to encourage new and existing buildings to meet or exceed the flood resistant construction standards
- Restrict or avoid new development in high-flood-risk zones in Hong Kong unless the stakeholders agree to face the flood risk or to adapt practices

HONG KONG – NORTH POINT

1] RESIDENTIAL DENSITY GUIDELINES: MAXIMUM DOMESTIC PLOT RATIO



Table 1 Maximum Domestic Plot Ratios - Main Urban Areas

Objectives and Functions of Residential Density Guidelines

- Residential density: Measured by which land is occupied by either development or population.
- Provide implications for the provision of public facilities, such as transport, utilities and social infrastructure.
- Boost the short- to medium- term land supply for housing use by maximizing the residential density to the extent in order to augment the supply of land in Hong Kong and living space of Hong Kong people.

Residential Zone 1:

- Highest density of residential development and applies to districts well served by high capacity public transport systems such as rail station or other major transport interchange.
- Buildings often incorporate a significant component of commercial floorspace on the lower one to three floors.

Density Zone	Type of Area	Location	Maximum Domestic Plot Ratio	Notes	Maximum domestic plot ratio of 8, 9 and 10 depends on Site
RI	Existing Development Area	Hong Kong Island	8/9/10	(i) (ii)	Class A, B and C respectively. • If there is non-domestic floorspace, maximum domestic plot ratio
		Kowloon & New Kowloon	7.5	(iii) (iv)	will be reduced according to the provisions of the B(P)R composite building formula. → applies to Commercial/Residentia
		Tsuen Wan New Town (covers Tsuen Wan, Kwai Chung & Tsing Yi Island)	8	(ii) (v)	Zones
	New Development Area and Comprehensive Development Area		6.5	(vi) (vii)	
R2			6	(viii) (ix)	
R3			3.6	(viii) (ix)	
			SECTION		TITLE
ONG K	ONG – NO	RTH POINT	5] APPE	NDEX	5.1] BIBLIOGRAPHY

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