

Wang Fuk Court Fire Investigation Report

Inter-departmental
Fire Investigation Task Force **(IFITF)**

Inter-departmental Fire Investigation Task Force (IFITF)

1. Composition
2. Terms of Reference
3. Methodology
4. Background and Key Figures
5. Findings and Analysis
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Inter-departmental Fire Investigation Task Force (IFITF)

- HKFSD
- HKPF
- GL
- BD
- HB(ICU)
- LD
- EMSD
- Fire Engineering Professionals

Terms of Reference

Believed Cause
Spread of Fire
Circumstances
Leading to
Heavy Fatalities &
Casualties



Methodology

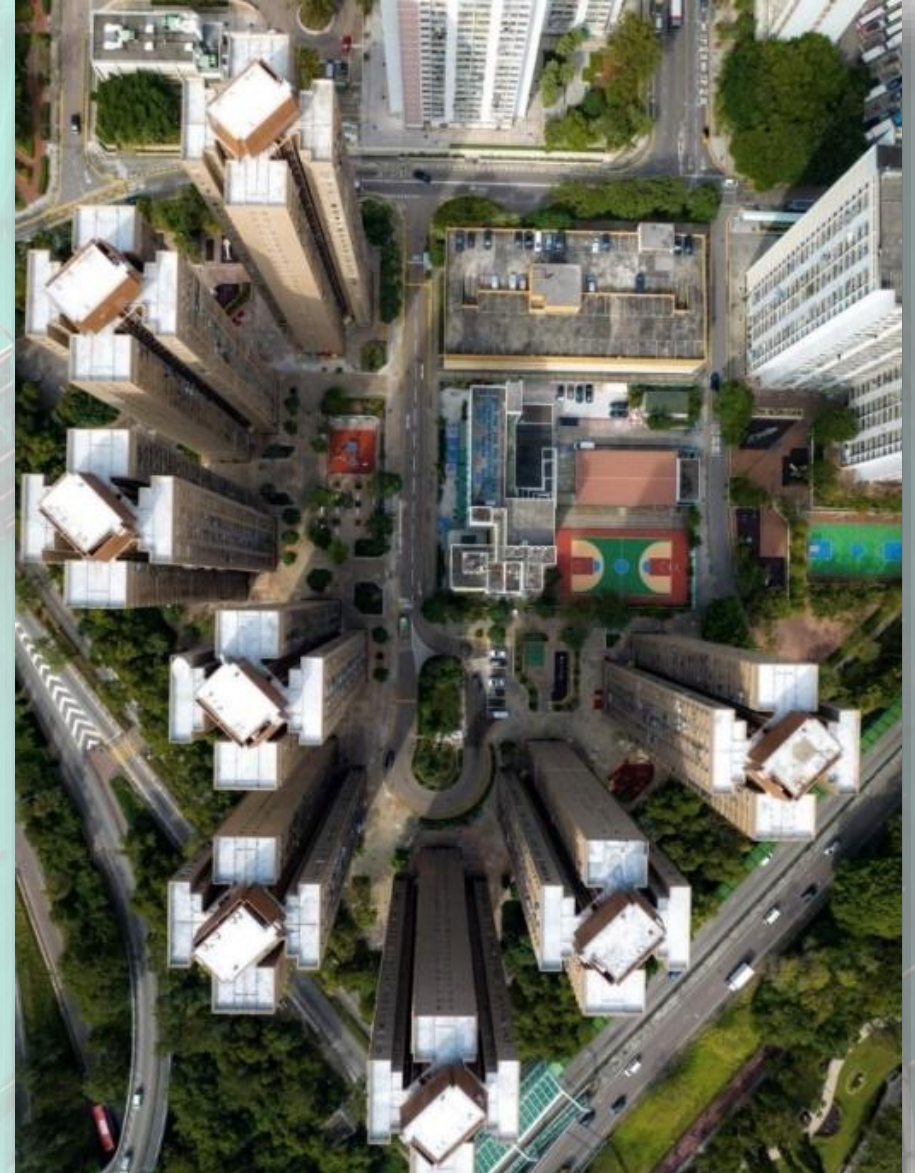
中國消防救援領域行業標準
XF/T 812-2008
《火災原因調查指南》

National Fire Protection
Association (NFPA) 921
(*Guide for Fire and Explosion
Investigations*)

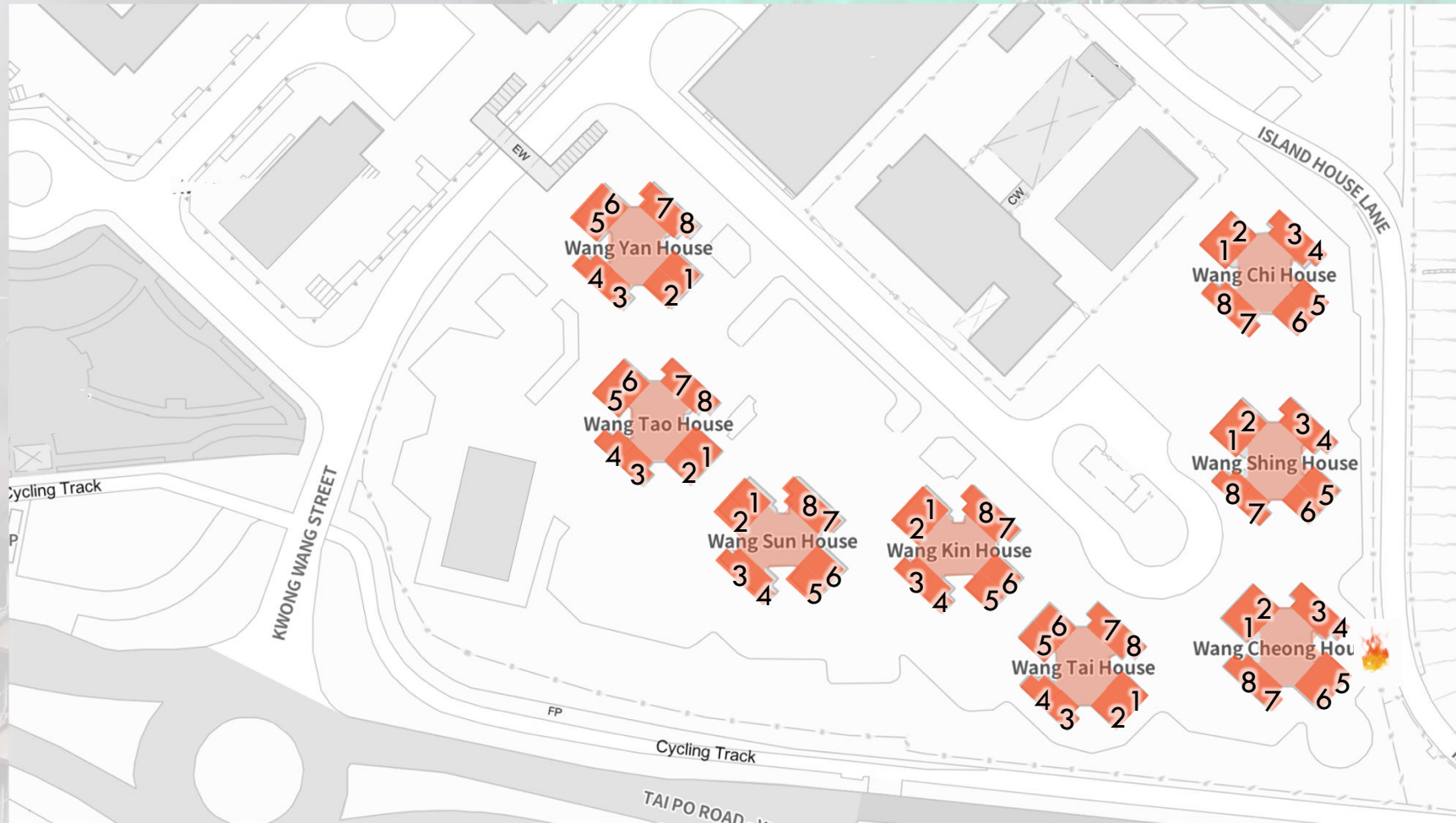
- Scene Examination
- Evidence Collection
- Witness Interviews
- Laboratory & Expert Analysis

Wang Fuk Court

- 8 Buildings
- 31 Floors
- Completed in 1983

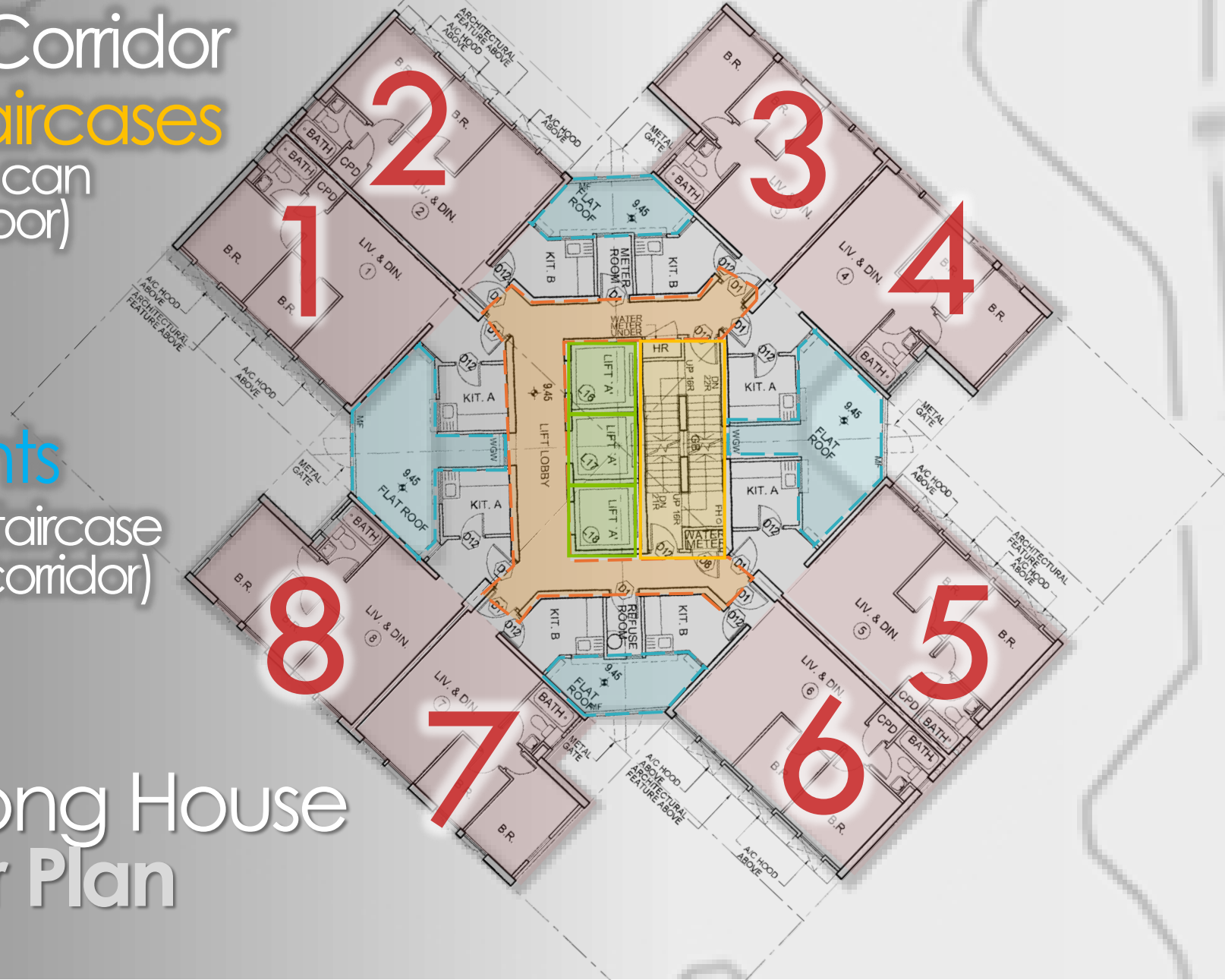


Layout Plan of Wang Fuk Court



- 8 units per Floor
- U-shaped Corridor
- 2 Scissor Staircases
(only 1 staircase can access to roof floor)
- 3 Lifts
(each stop at every 3 floors)
- 4 Re-entrants
(1 connects to staircase
1 connects to corridor)

Wang Cheong House Typical Floor Plan



Major Renovation

External Wall
Repair Works

(Commenced in **July 2024**)



Major Renovation



Nylon Strips

Bamboo

Safety Nets

Canvas

Wooden Planks

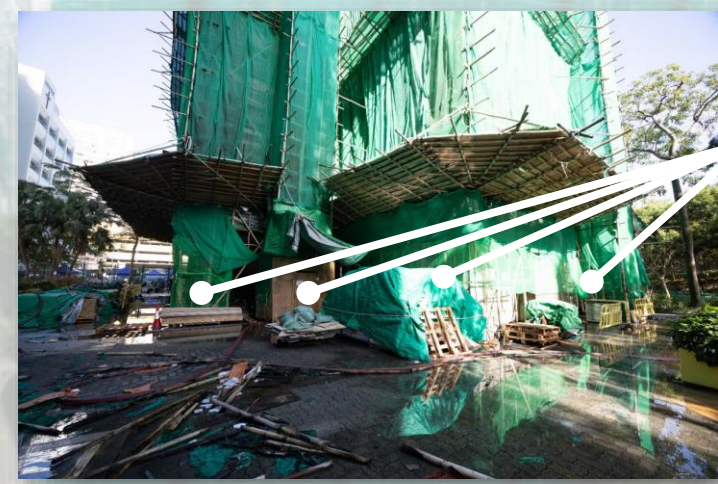


Catch-fans



Toe-boards

Covered Walkway



Construction Materials Scattered at Ground Level, Scaffoldings and Re-entrants

Major Renovation

Replace staircase windows with movable boards on **every 5 floors** (at front and rear s/c)



Aluminium Composite
Panel



Wooden Panel

Fire Discovery

According to witness statements, fire was noted at **as early as 1430 hours**



2:43 pm

2:51 pm

2:55 pm

2:57 pm

2:58 pm

CCTV footage

Fire ember noted
at **bicycle parking**
lot on G/F of
Wang Cheong
House

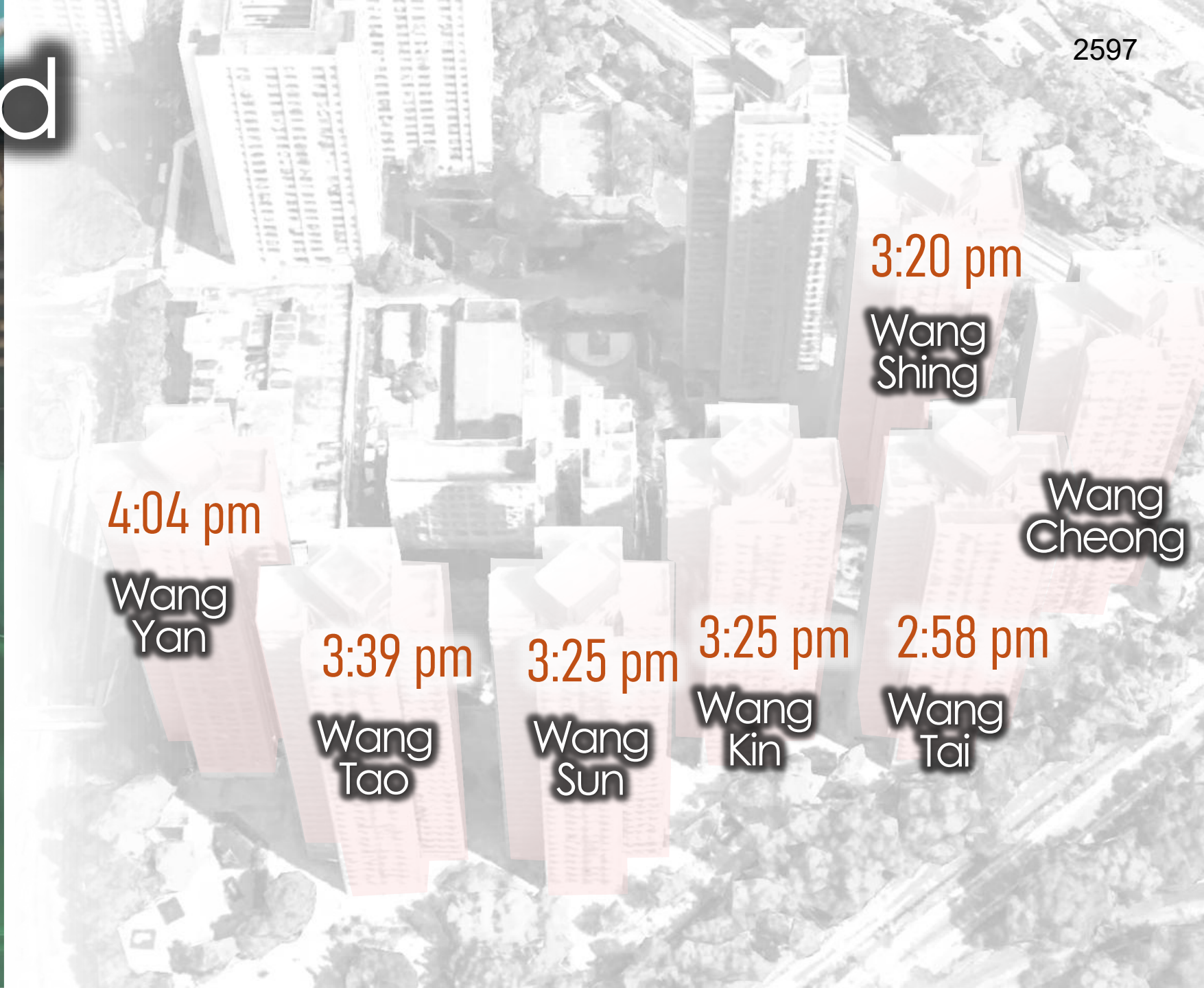
Screenshot
From the
Informant's
Video
(Time of Call)

Fire
Spread
to About
4/F

Fire
Spread
to About
8/F

Fire Intensified and
Engulfed the Entire
East Re-Entrant of
Wang Cheong House
With Falling Debris

Fire Spread



Response by FSD

No.1 14:51 26/11

No.3 15:02

No.4 15:34

No.5 18:22

Fire Surrounded 21:31 27/11

Stopped 10:18 28/11

Overall Deployment

581 Fire Appliances

217 Ambulance

3,531 FS
Personnel

2,643 Fire O/Rs

224 Fire officers

585 Ambulance O/Rs

79 Ambulance officers



Response by FSD

Special Arrangements (Command Structure)

- Early Activation of DCP
- Deployment of Directorates:
 1. At scene
 2. EMSC
 3. Rescue Officer
 4. Safety Officer
- Deployment of Senior Officers in each block:
 1. Firefighting operations
 2. SAR operations



Response by FSD

Special Arrangements (Resource Deployment)

1. 10 Additional SAR Teams
2. A Support Centre with 80 Uniformed Members
3. Special Relief Arrangements by coach services



Damage, Casualties & Fatalities

924 Flats with Fire
Damage

79 Casualties

168 Fatalities

115 Rescued

~250 Evacuated



Cause of Fire

- Fire Origin
- Cause of Fire
- Test of Construction Materials

***(To be presented by
Senior Chemist Dr. LEE)***

Spread of Fire

- Rapid *Vertical* Fire Spread
- Fire Spread *into Units*
- *Secondary Ignitions*
- Scientific Analysis
- Validation of Hypothesis

***(To be presented by
Prof. YUEN and Dr. TO)***

Circumstances Leading to Heavy Casualties

Conclusions

***(To be presented by
the Leader of IFITF Mr. YIU)***