

FIRE SERVICES NOTES

1. SPRINKLER SYSTEM
- A. THE CLASSIFICATION OF THE AUTOMATIC SPRINKLER INSTALLATION TO BE ORDINARY HAZARD GROUP 3.
- B. AUTOMATIC SPRINKLER SYSTEM SHALL SUPPLIED BY A 135,000L SPRINKLER WATER TANK IN FS PUMP ROOM AT WAREHOUSE AS INDICATED ON PLAN.
- C. SPRINKLER SHALL BE COVERED ALL FLOOR LEVEL FOR WAREHOUSE WHICH THE GFA EXCEEDING 230m² IN ACCORDANCE WITH LPC RULES INCORPORATING BS EN12845 : 2015 AND FSD CIRCULAR LETTER 5/2020.
- D. THE SPRINKLER WATER TANK, SPRINKLER PUMP ROOM, SPRINKLER INLET AND SPRINKLER CONTROL VALVE GROUP SHALL BE AS INDICATED ON PLANS.
- E. ALL INSTALLED SPRINKLER SHOULD BE CONVENTIONAL TYPE AND THE TEMPERATURE RATING OF SPRINKLER HEAD SHALL BE 68°C UNLESS OTHERWISE SPECIFIED.
- F. ALL SPRINKLER PIPE SIZE SHOULD BE Ø32MM UNLESS SPECIFY.
- G. STORAGE BLOCK SHOULD BE SEPARATED BY AISLES NO LESS THAN 2.4M WIDE.
- H. THE MAXIMUM STORAGE AREA SHALL BE 50m² FOR ANY SINGLE BLOCK.
- I. TYPE OF STORAGE METHOD FOR THE BUILDING IS AS FOLLOWS:
- J. STORAGE CATEGORY : CATEGORY (III)
- K. STORAGE HEIGHT : NOT EXCEEDING 2.1M
- L. STORAGE : ST1
- M. A MAIN FIRE CONTROL PANEL, WHICH RECEIVE FIRE ALARM SIGNALS FROM THE SPRINKLER SYSTEM, SHALL BE LOCATED AT SPR PUMP ROOM.
- N. STAND-ALONE FIRE DETECTION SYSTEM SHALL TO BE PROVIDED IN ACCORDANCE WITH “STAND-ALONE FIRE DETECTOR GENERAL GUIDELINES ON PURCHASE, INSTALLATION & MAINTENANCE (SEPT 2021)” AND INSTALLED AS INDICATED ON PLAN.
- O. IN RELATION TO CLAUSE 1N, WHERE TWO OR MORE STAND-ALONE FIRE DETECTORS ARE INSTALLED IN AN ENCLOSED STRUCTURE, ALL DETECTORS SHALL BE INTERCONNECTED (EITHER WIRED OR WIRELESSLY) SUCH THAT WHEN ONE OF THE DETECTORS IS TRIGGERED, ALL CONNECTED DETECTORS SHALL SOUND AN ALARM SIMULTANEOUSLY.

2. EMERGENCY LIGHTING
- A. SUFFICIENT EMERGENCY LIGHTING WITH SELF-CONTAINED 2 HOURS BATTERY BACKUP SHALL BE PROVIDED THROUGHOUT THE COVERED AREA OF STRUCTURES AND ALL EXIT ROUTES LEADING TO EXIT OF BUILDING IN ACCORDANCE WITH BS 5266-1:2016 AND BS EN 1838:2013 AND FSD CIRCULAR LETTER 4/2021.

3. EXIT SIGN
- A. SUFFICIENT DIRECTIONAL & EXIT SIGNS WITH SELF-CONTAINED 2 HOURS BATTERY BACKUP SHALL BE PROVIDED IN ACCORDANCE WITH BS5266-1:2016 & THE FSD CIRCULAR LETTER NO. 5/2008.
- B. SELF-CONTAINED TYPE DIRECTIONAL AND EXIT SIGNS TO ENSURE THAT ALL EXIT ROUTES FROM ANYWHERE WITHIN THE WAREHOUSE ARE CLEARLY INDICATED AS REQUIRED BY THE CONFIGURATION OF EXIT ROUTE SERVING THE BUILDING.

4. EMERGENCY GENERATOR
- A. NO EMERGENCY GENERATOR TO BE PROVIDED FOR SERVING THE EMERGENCY POWER. A.C. SUPPLY SOURCE WITH SECONDARY SUPPLY SHALL FEED BEFORE MAIN SWITCH.
- B. DUPLICATED POWER SUPPLIES FOR ALL FIRE SERVICES INSTALLATIONS COMPRISING A CABLE CONNECTED FROM ELECTRICITY MAINS DIRECTLY BEFORE THE MAIN SWITCH.

5. PORTABLE HAND-OPERATED APPROVED APPLIANCE
- A. A SUITABLE TYPE OF PORTABLE FIRE EXTINGUISHER SHALL BE PROVIDED IN LOCATIONS WHERE EASILY ACCESSIBLE BY PERSON IN CHARGE WHERE THE F.E. SHALL BE PROVIDED AS INDICATED ON PLAN.
- B. THE WHEELED TYPE DRY CHEMICAL FIRE EXTINGUISHER SHALL BE PROVIDED IN EVERY 500 SQ.M ON EVERY FLOOR OF WAREHOUSE 1 & 2 AND SHALL BE PROVIDED TO ENSURE THAT EVERY PART OF THE PREMISES CAN BE REACHED BY WHEELED TYPE DRY CHEMICAL FIRE EXTINGUISHER FROM A DISTANCE OF NOT MORE THAN 30M AS INDICATED ON PLAN.

6. STATIC OR DYNAMIC SMOKE EXTRACTION SYSTEM
- A. SMOKE EXTRACTION SYSTEM SHALL NOT BE PROVIDED AS THE AGGREGATE AREA OF OPENABLE WINDOWS OF THE COMPARTMENT OF EVERY FLOOR SHALL PROVIDE MORE THAN 6.25% OF THE FLOOR AREA OF THOSE STRUCTURES COMPARTMENTS.

7. VENTILATION/AIR CONDITIONING CONTROL SYSTEM
- A. WHEN A VENTILATION/ AIR CONDITIONING CONTROL SYSTEM TO A BUILDING IS PROVIDED, IT SHALL STOP MECHANICALLY INDUCED AIR MOVEMENT WITHIN A DESIGNATED FIRE COMPARTMENT.

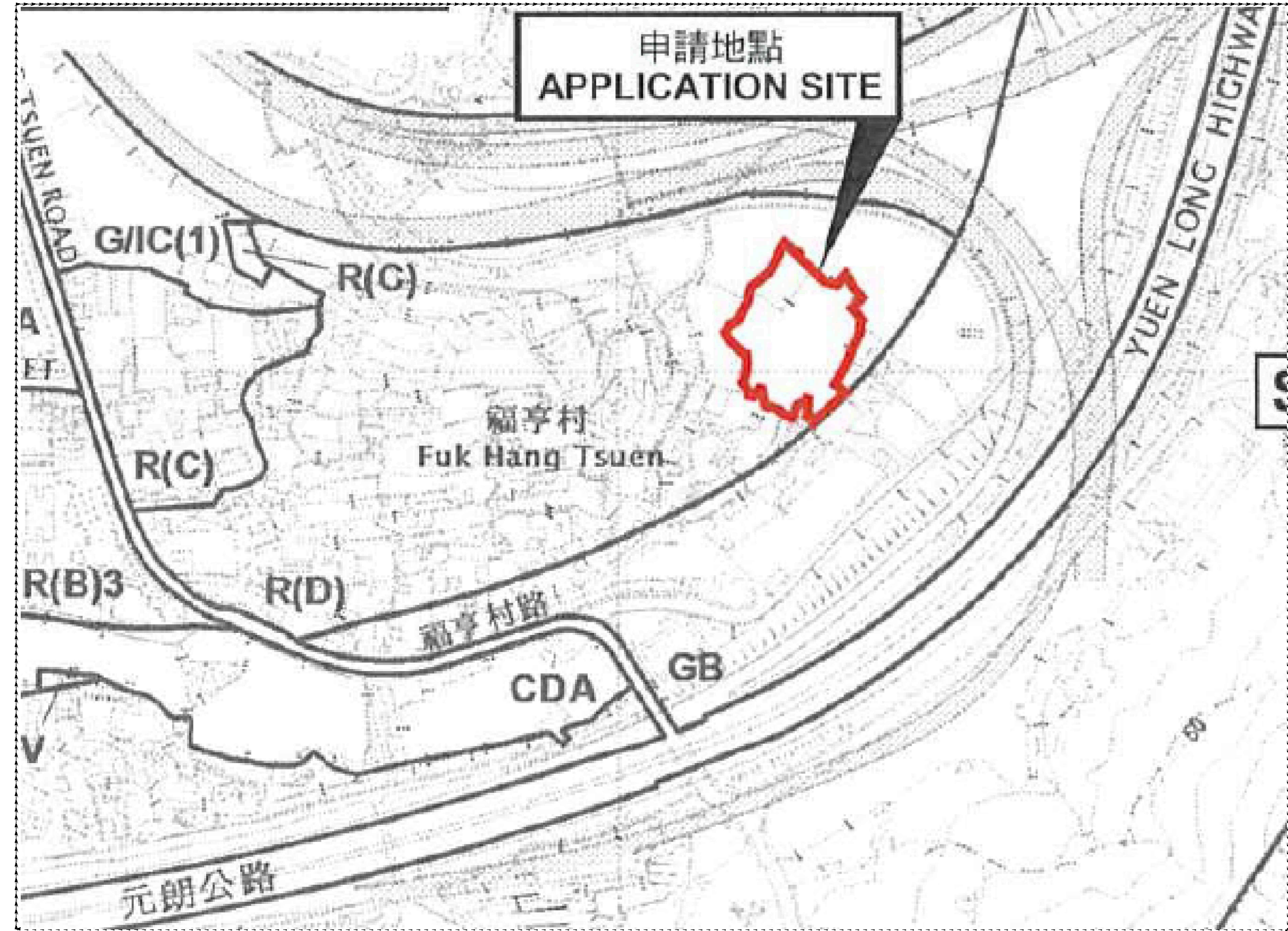
DRAWING LIST

DRAWING NO	DESCRIPTION
TM-LTTY-FS01	FS NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST
TM-LTTY-FS02	SPRINKLER WATER SYSTEM FOR G/F
TM-LTTY-FS03	FS SYSTEM FOR G/F
TM-LTTY-W001	OPENABLE WINDOW AREA CALCULATION FOR STRUCTURE

ABBREVIATION

SPR.	SPRINKLER
F.H.	FIRE HYDRANT
H.R.	HOSE REEL
F.E.	FIRE EXTINGUISHER
CO ₂	CARBON DIOXIDE
L.P.C.	LOSS PREVENTION COUNCIL
F.S.I.	FIRE SERVICES INSTALLATION

F/A	FROM ABOVE
F/B	FROM BELOW
T/A	TO ABOVE
T/B	TO BELOW
U/G	UNDERGROUND
F.S.	FIRE SERVICES
H/L	HIGH LEVEL
M/L	MID LEVEL
L/L	LOW LEVEL



LEGEND (FOR LAYOUT PLAN)

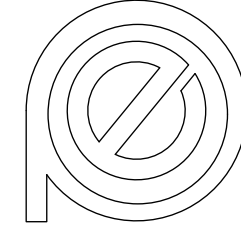
○	UPRIGHT SPRINKLER HEAD
◊	PENTENT SPRINKLER HEAD
Ⓜ	150mm FIRE ALARM BELL
Ⓜ	BREAK GLASS UNIT
Ⓜ	FLOW SWITCH
Ⓜ	SUBSIDIARY CONTROL VALVE
Ⓜ	SPRINKLER ZONE SUBSIDIARY CONTROL VALVE ASSEMBLY INCLUDES ZONE SUBSIDIARY CONTROL VALVE, FLOW SWITCH, TEST GATE VALVE AND DRAIN VALVE
Ⓜ	GATE VALVE
Ⓜ	NON RETURN VALVE
Ⓜ	VORTEX INHIBITOR
Ⓜ	BALL FLOAT VALVE
Ⓜ	PRESSURE SWITCH
Ⓜ	SPRINKLER CONTROL VALVE SET
Ⓜ	CHECK METER POSITION
Ⓜ	SPRINKLER / F.S. INLET
Ⓜ	5Kg CO2 TYPE FIRE EXTINGUISHER
Ⓜ	4Kg DRY POWDER TYPE FIRE EXTINGUISHER
Ⓜ	20KG WHEEL TYPE DRY CHEMICAL FIRE EXTINGUISHER

Ⓜ	PUMP	Ⓜ	SPRINKLER CONTROL VALVE SET (SCHEMATIC DIAGRAM)
Ⓜ	150mm WATER ALARM GONG	Ⓜ	LEVEL SWITCH (HIGH LEVEL SIGNAL & LOW LEVEL SIGNAL)
Ⓜ	EMERGENCY LIGHTING	Ⓜ	FLEXIBLE CONNECTOR
Ⓜ	EXIT SIGN	Ⓜ	CHECK METER POSITION
Ⓜ	FIRE ALARM PANEL	Ⓜ	PLUG
Ⓜ	PUMP CONTROL PANEL	Ⓜ	Y-STRAINER
Ⓜ	SELF-CONTAINED EMERGENCY FLUORESCENT LIGHTING UNIT	Ⓜ	SPRINKLER / F.S. INLET
Ⓜ	FLASH LIGHT	Ⓜ	SPRINKLER PROVING PIPE
Ⓜ	HOSE REEL W/ LOCKABLE GLASS FRONTED NOZZLE BOX, STRIKER, C/W FIRE ALARM BELL & BREAK GLASS UNIT (SCHEMATIC DIAGRAM)	Ⓜ	
Ⓜ	HOSE REEL W/ LOCKABLE GLASS FRONTED NOZZLE BOX, STRIKER, C/W FIRE ALARM BELL & BREAK GLASS UNIT	Ⓜ	STAND-ALONE FIRE DETECTOR
Ⓜ	MONITORED GATE VALVE		
Ⓜ	SPRINKLER HEAD (SCHEMATIC DIAGRAM)		
Ⓜ	GLOBE VALVE		
Ⓜ	FLOW METER		
Ⓜ	VORTEX INHIBITOR		
Ⓜ	PRESSURE GAUGE WITH COCK		
Ⓜ	AUTOMATIC AIR VENT WITH COCK		
Ⓜ	SPRINKLER / HOSE REEL PIPE		

0	TPB SUBMISSION	2026-05-18	LH
REV	DESCRIPTION	DATE	BY

FSI CONTRACTOR

East Power Engineering Limited



Flat A, 7/F., Hop Shing Commercial Building
41 Chi Kiang Street, Tokwawan, Kowloon
Fax. : 2394-3772 Tel. : 2397-3238

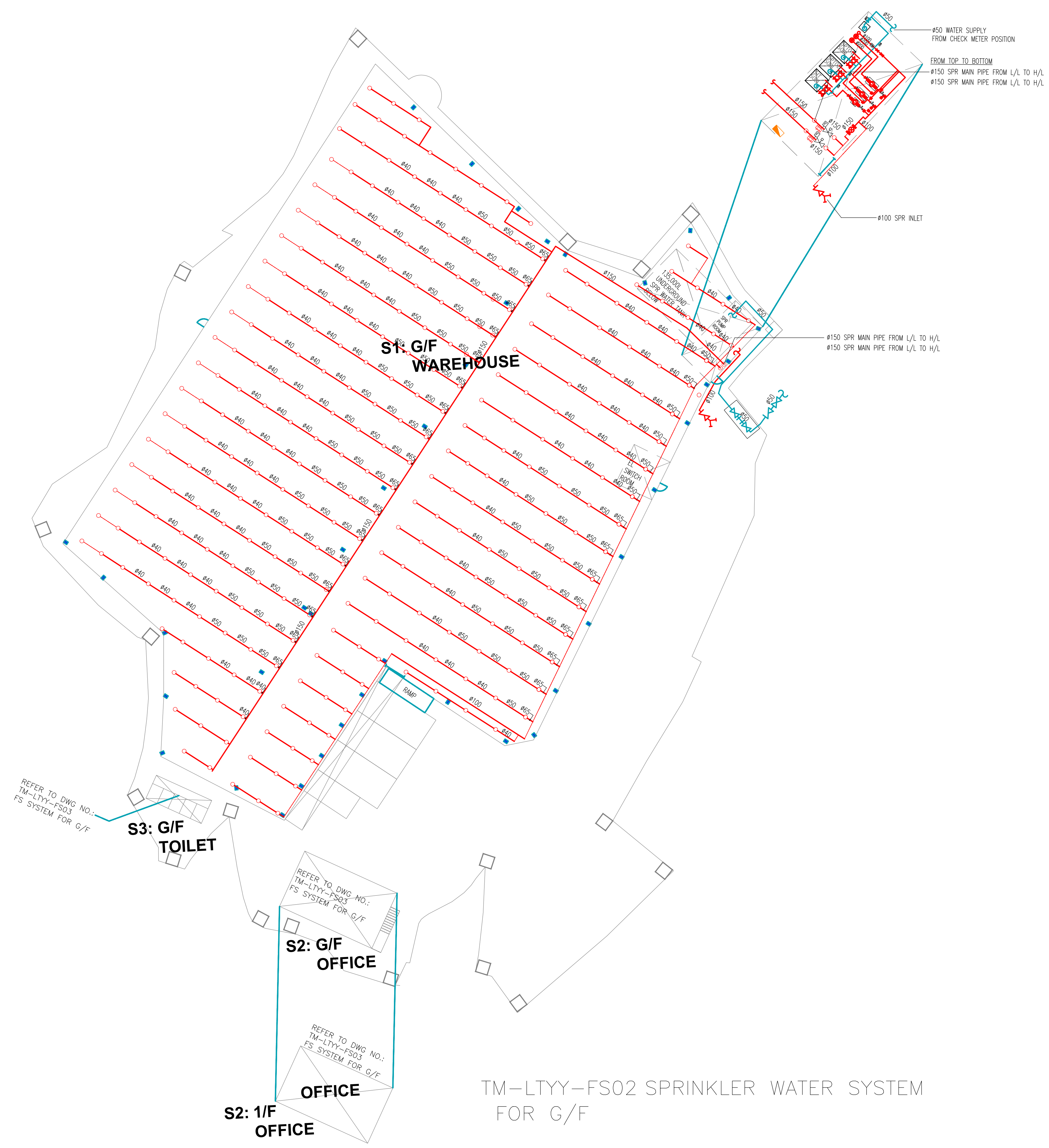
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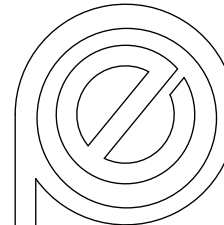
Lots 1212 RP (Part), 1215 SAK RP (Part), 1243 S.B RP (Part), 1247 RP(Part), 1248 (Part), 1256 S.A, 1256 S.B and 1256 RP in D.D.130, Fuk Hang Tsuen, Lam Tei, Tuen Mun, New Territories

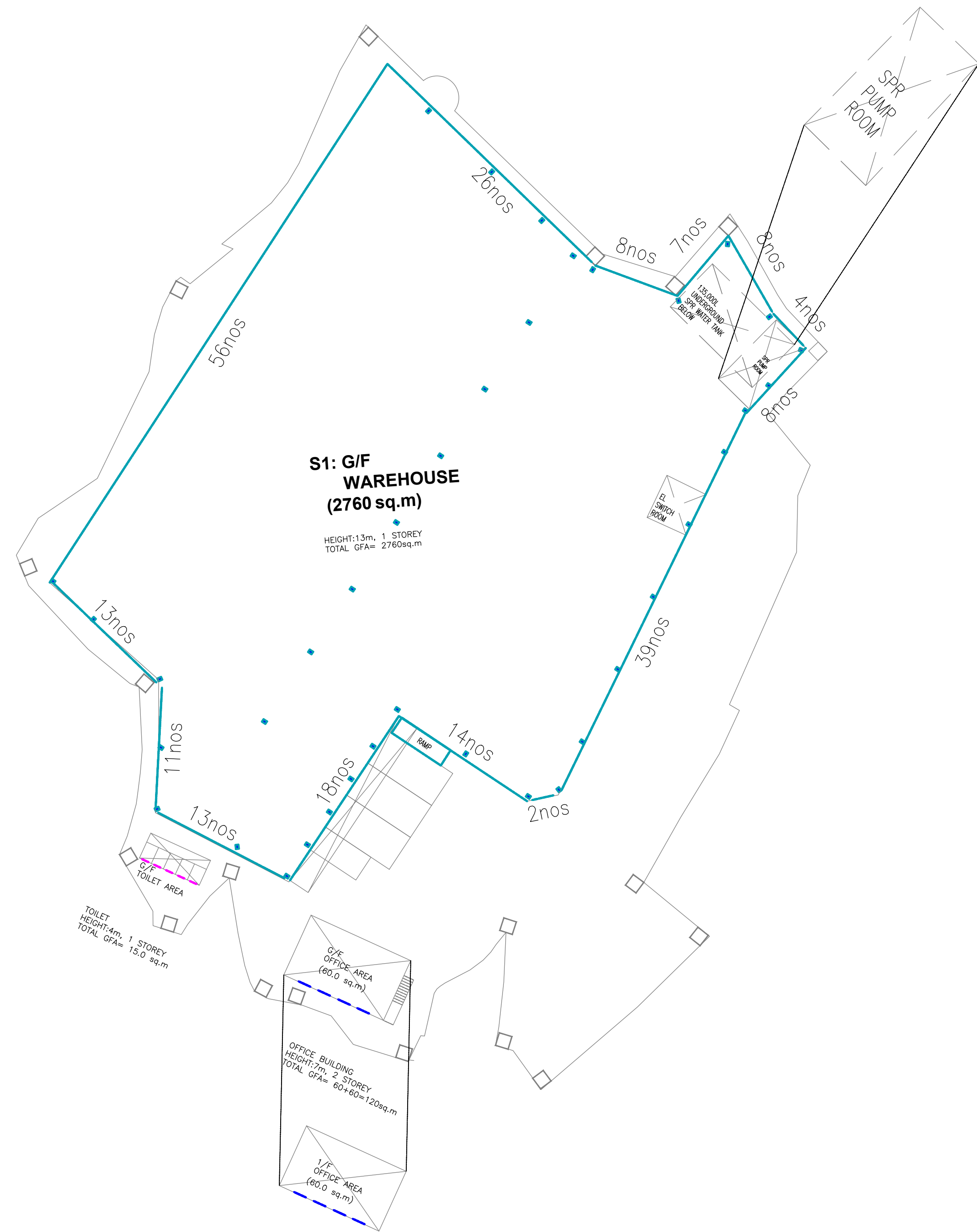
DRAWING TITLE

FS NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST

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DRAWN BY	HY	Eng.T	18-05-2026
DESIGNED BY	HY	Eng.T	18-05-2026
CHECKED BY	CM	PM	18-05-2026
APPROVED BY	—	—	—
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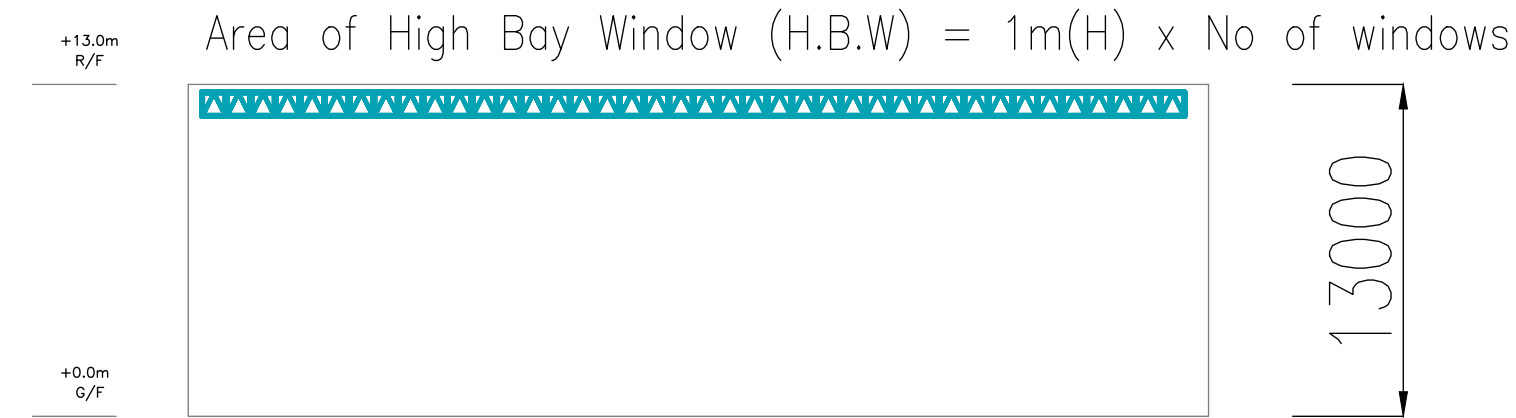


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FSI CONTRACTOR			
East Power Engineering Limited			
 Flat A, 7/F., Hop Shing Commercial Building 41 Chi Kiang Street, Tokwawan, Kowloon Fax. : 2394-3772 Tel. : 2397-3238			
PROJECT			
Lots 1212 RP (Part), 1215 S.AK RP (Part), 1243 S.B RP (Part), 1247 RP(Part), 1248 (Part), 1256 S.A, 1256 S.B and 1256 RP in D.D.130, Fuk Hong Tsuen, Lam Tei, Tuen Mun, New Territories			
DRAWING TITLE			
SPRINKLER WATER SYSTEM FOR G/F			
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DRAWN BY	HY	Eng.T	18-05-2026
DESIGNED BY	HY	Eng.T	18-05-2026
CHECKED BY	CM	PM	18-05-2026
APPROVED BY	-	-	-
PROJECT NO.	A/TM-LTYT/471		
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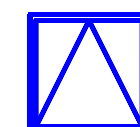


H.B.W PLAN VIEW

SIZE=1.0m x1.0m
DETAIL FOR OPENABLE WINDOW FOR S1

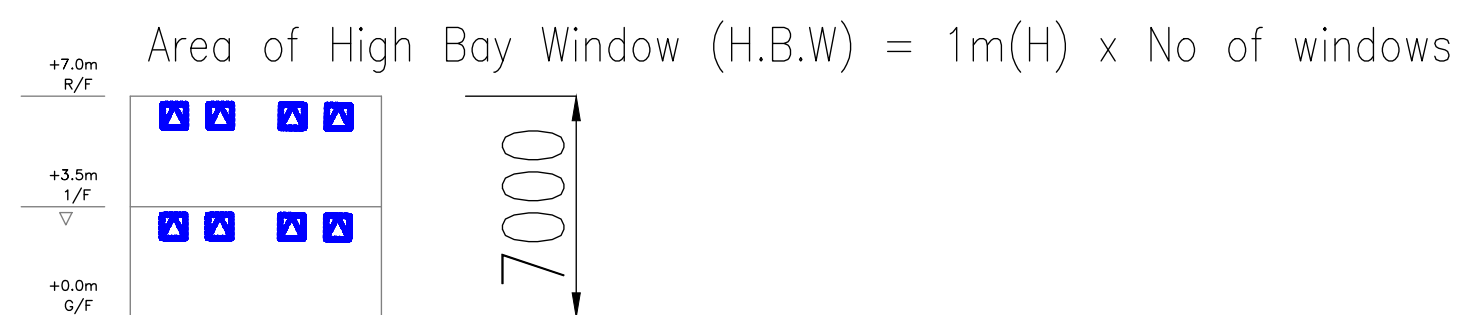


S1: WAREHOUSE



H.B.W PLAN VIEW

SIZE=1.2m x1.2m
DETAIL FOR OPENABLE WINDOW FOR S2

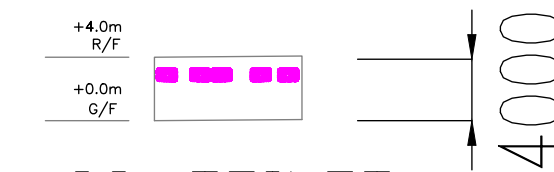


S2: OFFICE BUILDING



H.B.W PLAN VIEW

SIZE=0.7m x0.4m
DETAIL FOR OPENABLE WINDOW FOR S3



S3: TOILET

OPENABLE WINDOW AREA CALCULATION UNDER F.S.D. REQUIREMENT FOR COMPARTMENT EXCEEDING 7000 m ³				
LOCATION	USABLE FL. AREA FOR EACH FLOOR (m ²)	OPENABLE WINDOW AREA REQUIRED FOR EACH FLOOR (m ²)	OPENABLE WINDOW AREA PROVIDED FOR EACH FLOOR (m ²)	
S1: WAREHOUSE	2760	2760 X 6.25% = 172.5	REFER TO LAYOUT: =(13+56+26+8+7+8+4+8+39+2+14+18+13+11) =227*1.0=227	TOTAL = <u>227</u> > <u>172.5</u>
S2: OFFICE AREA	60 /FLOOR	60 X 6.25% = 3.75 /FLOOR	REFER TO LAYOUT: =(1.2X1.2X4)=5.76 /FLOOR	TOTAL = <u>5.76</u> > <u>3.75</u> /FLOOR
S3: TOILET	15	15 X 6.25% = 0.937	REFER TO LAYOUT: =(0.7X0.4 X5) = 1.4	TOTAL = <u>1.4</u> > <u>0.937</u>

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PROJECT NO.	A/TM-LTYY/471		
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SCALE	1:150	REVISION	0