

FIRE SERVICES NOTES

- HOSE REEL SYSTEM (SELF-INITIATIVE ENHANCEMENT)
 - MODIFIED HOSE REEL SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH THE CODE OF PRACTICE FOR MIN. FIRE SERVICE INSTALLATIONS & EQUIPMENT 2022.
 - WATER SUPPLY FOR THE MODIFIED HOSE REEL SYSTEM TO BE SINGLE END FEED FROM THE GOVERNMENT TOWN MAIN.
 - NO FIRE SERVICES INLET TO BE PROVIDED FOR THE MODIFIED HOSE REEL SYSTEM.
 - A MODIFIED HOSE REEL SYSTEM OF 2,000 LITRES WATER TANK TO BE PROVIDED FOR THE PREMISES AS INDICATED ON PLAN.
 - TWO HOSE REEL PUMPS (ONE DUTY & ONE STANDBY) SHALL TO BE PROVIDED IN FS PUMP ROOM AT WAREHOUSE AS INDICATED ON PLAN.
 - SUFFICIENT HOSE REELS SHALL BE PROVIDED TO THE PREMISES AS INDICATED ON PLANS. HOSE REELS SHALL BE PROVIDED TO ENSURE THAT EVERY PART OF THOSE STRUCTURES CAN BE REACHED BY A LENGTH OF NOT MORE THAN 30 M OF HOSE REEL TUBING. ONE ACTUATING POINT AND ONE AUDIO WARNING DEVICE TO BE LOCATED AT EACH HR POINT.

2. SPRINKLER SYSTEM

- THE CLASSIFICATION OF THE AUTOMATIC SPRINKLER INSTALLATION TO BE ORDINARY HAZARD GROUP 3.
- AUTOMATIC SPRINKLER SYSTEM SHALL SUPPLIED BY A 135,000L SPRINKLER WATER TANK IN FS PUMP ROOM AT WAREHOUSE AS INDICATED ON PLAN.
- 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.
- THE SPRINKLER WATER TANK, SPRINKLER PUMP ROOM, SPRINKLER INLET AND SPRINKLER CONTROL VALVE GROUP SHALL BE AS INDICATED ON PLANS.
- ALL INSTALLED SPRINKLER SHOULD BE CONVENTIONAL TYPE AND THE TEMPERATURE RATING OF SPRINKLER HEAD SHALL BE 68°C UNLESS OTHERWISE SPECIFIED.
- ALL SPRINKLER PIPE SIZE SHOULD BE Ø32MM UNLESS SPECIFIED.
- STORAGE BLOCK SHOULD BE SEPARATED BY AISLES NO LESS THAN 2.4M WIDE.
- THE MAXIMUM STORAGE AREA SHALL BE 50m² FOR ANY SINGLE BLOCK.
- TYPE OF STORAGE METHOD FOR THE BUILDING IS AS FOLLOWS:
 - STORAGE CATEGORY : CATEGORY (II)
 - STORAGE HEIGHT : NOT EXCEEDING 2.1M
 - STORAGE : ST1

3. FIRE ALARM SYSTEM (SELF-INITIATIVE ENHANCEMENT)

- FIRE ALARM SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH THE CODE OF PRACTICE FOR MIN. FIRE SERVICE INSTALLATIONS & EQUIPMENT 2022
- A FIRE CONTROL CENTRE WILL BE LOCATED INSIDE FS PUMP ROOM ON G/F AS INDICATED ON PLAN.
- A MAIN FIRE CONTROL PANEL, WHICH RECEIVE FIRE ALARM SIGNALS FROM THE SPRINKLER SYSTEM, MANUAL FIRE ALARM SYSTEM SHALL BE LOCATED AT FIRE CONTROL CENTRE.
- ONCE ACTUATION OF FIRE ALARM BELL, ALL THE ALARM BELL OF THE ENTIRE DEVELOPMENT WILL BE SOUNDED.
- FIRE ALARM SYSTEM SHALL BE PROVIDED THROUGHOUT THE ENTIRE COVERED AREA OF WAREHOUSE IN ACCORDANCE WITH BS 5839-1 : 2017 AND FSD CIRCULAR LETTER 6/2021. ONE ACTUATING POINT AND ONE AUDIO WARNING DEVICE SHOULD BE LOCATED AT EACH HOSE REEL POINT. THE ACTUATION POINT SHOULD INCLUDE FACILITIES FOR HOSE REEL PUMP START AND AUDIO / VISUAL WARNING DEVICE INITIATION.
- 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.
- IN RELATION TO CLAUSE 3.6, 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.

4. EMERGENCY LIGHTING

- 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.

5. EXIT SIGN

- 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.
- 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.

6. EMERGENCY GENERATOR

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

7 PORTABLE HAND-OPERATED APPROVED APPLIANCE

- 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.
- THE WHEELED TYPE DRY CHEMICAL FIRE EXTINGUISHER SHALL BE PROVIDED IN EVERY 500 SQM 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.

8 STATIC OR DYNAMIC SMOKE EXTRACTION SYSTEM

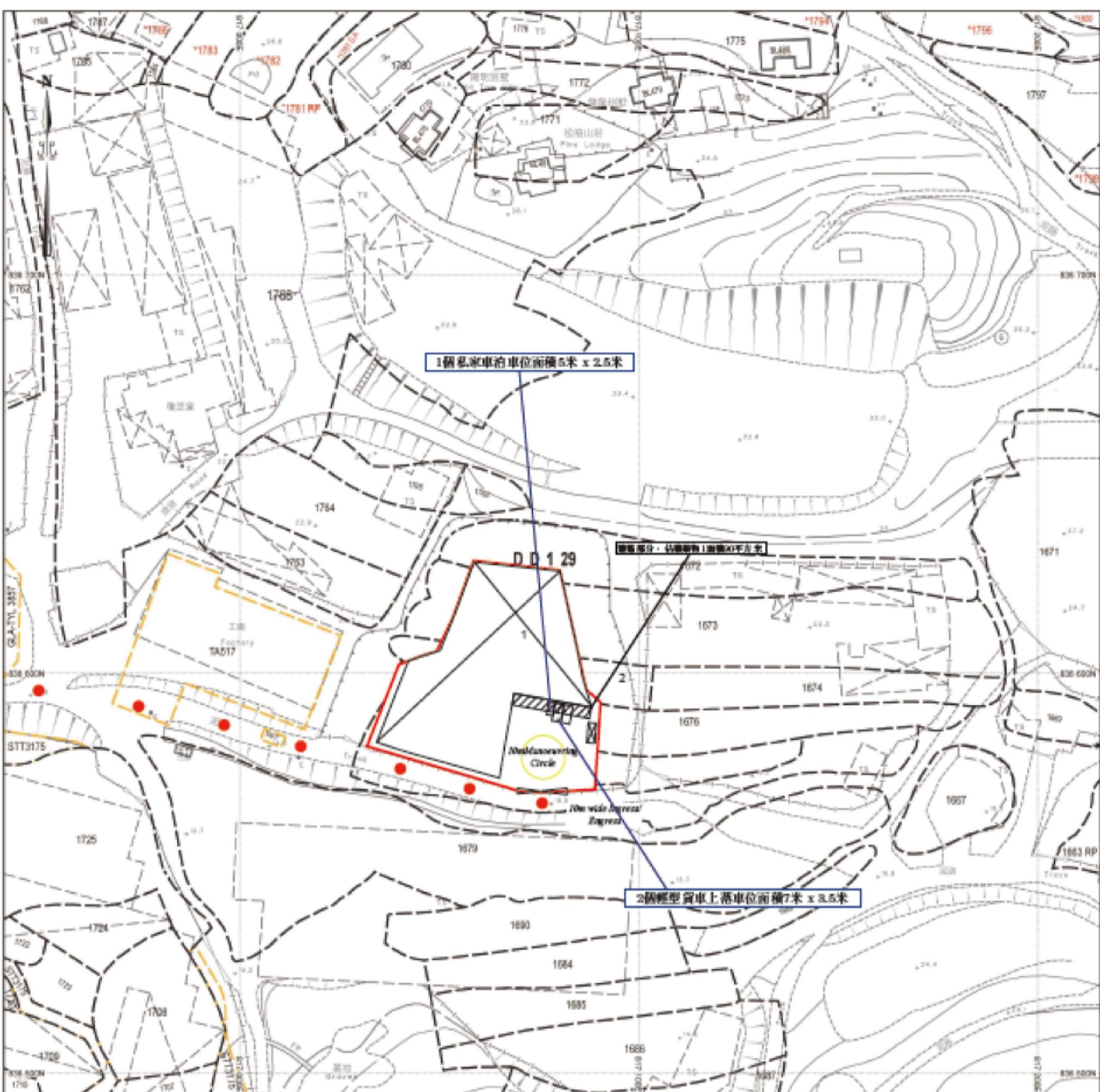
- SMOKE EXTRACTION SYSTEM SHALL NOT BE PROVIDED AS THE AGGREGATE AREA OF OPENABLE WINDOWS OF THE COMPARTMENT SHALL PROVIDE MORE THAN 6.25% OF THE FLOOR AREA OF THOSE STRUCTURES COMPARTMENTS.

9 VENTILATION/AIR CONDITIONING CONTROL SYSTEM

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

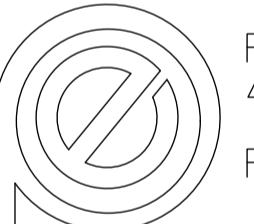
DRAWING LIST

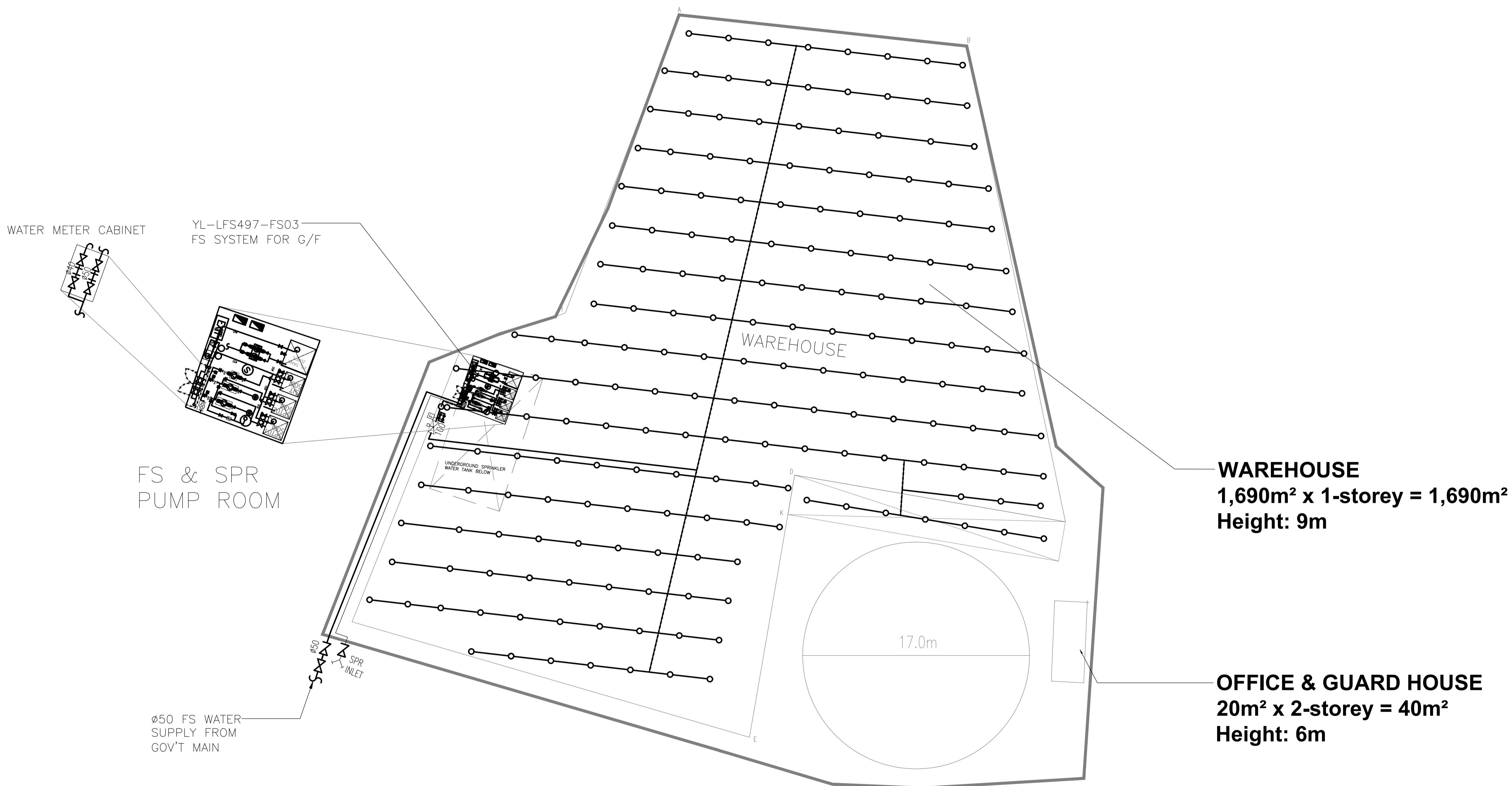
DRAWING NO	DESCRIPTION	ABBREVIATION	F/A	FROM ABOVE
YL-LFS497-FS01	FS NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST	SPR. SPRINKLER	F/B	FROM BELOW
		F.H. FIRE HYDRANT	T/A	TO ABOVE
		H.R. HOSE REEL	T/B	TO BELOW
		F.E. FIRE EXTINGUISHER		
		CO ₂ CARBON DIOXIDE	U/G	UNDERGROUND
		L.P.C. LOSS PREVENTION COUNCIL	F.S.	FIRE SERVICES
		F.S.I. FIRE SERVICES INSTALLATION	H/L	HIGH LEVEL
YL-LFS497-FS02	SPRINKLER WATER SYSTEM FOR G/F	(F.E.) _{CO₂}	M/L	MID LEVEL
YL-LFS497-FS03	FS SYSTEM FOR G/F	(F.E.) _{D.P.}	L/L	LOW LEVEL
YL-LFS497-W001	OPENABLE WINDOW AREA CALCULATION FOR STRUCTURE	WHEEL (F.E.)		

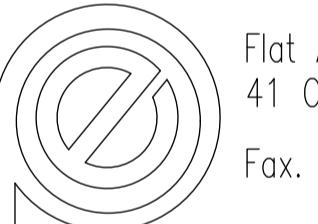


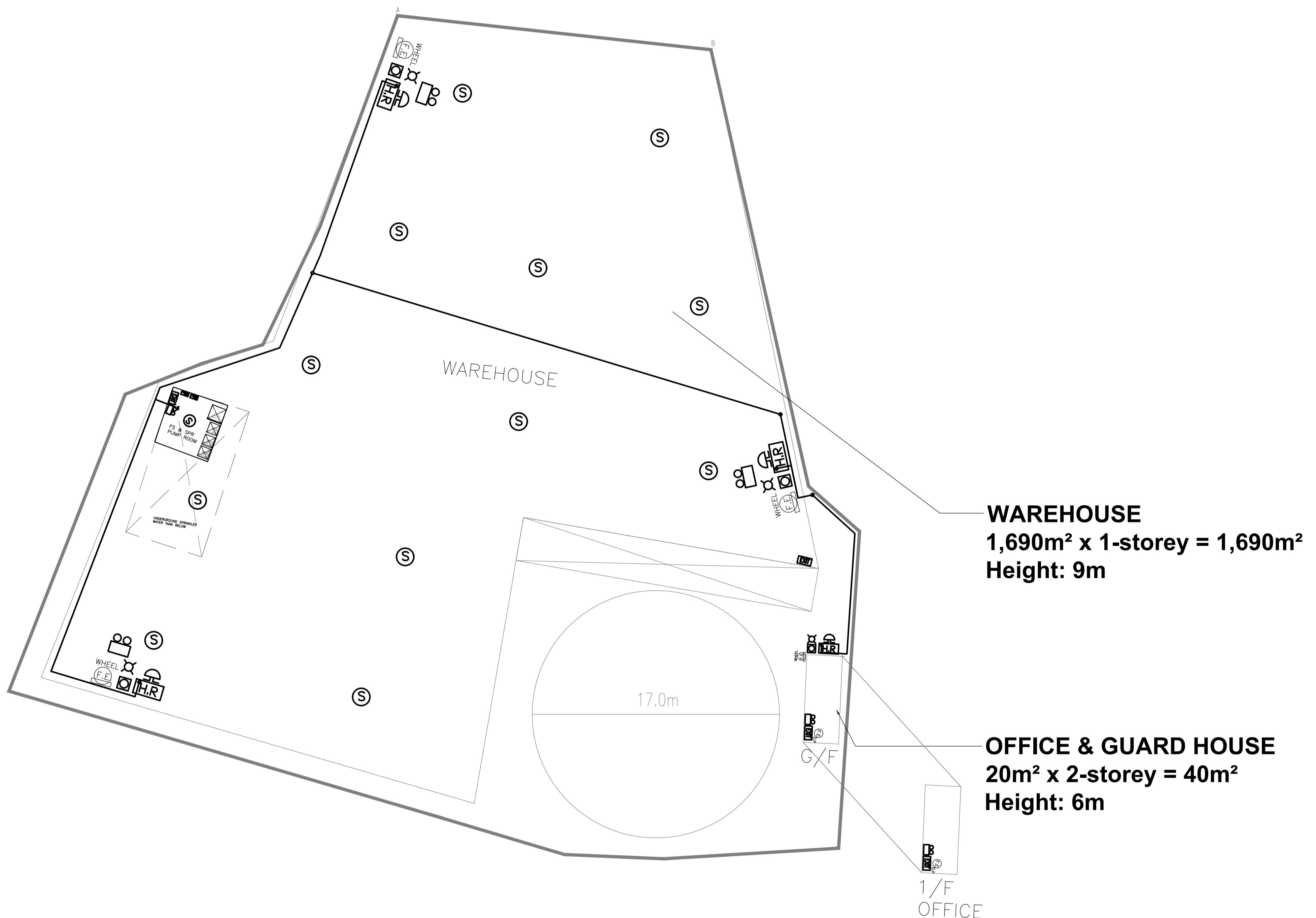
LEGEND (FOR LAYOUT PLAN)

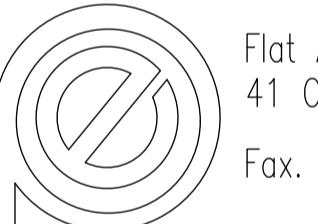
○ UPRIGHT SPRINKLER HEAD	■ PUMP	○ SPRINKLER CONTROL VALVE SET (SCHEMATIC DIAGRAM)
○ PENTENT SPRINKLER HEAD	150mm WATER ALARM GONG	○ LEVEL SWITCH (HIGH LEVEL SIGNAL & LOW LEVEL SIGNAL)
■ 150mm FIRE ALARM BELL	EMERGENCY LIGHTING	○ FLEXIBLE CONNECTOR
□ BREAK GLASS UNIT	EXIT SIGN	□ CHECK METER POSITION
○ FLOW SWITCH	FIRE ALARM PANEL	— PLUG
○ SUBSIDIARY CONTROL VALVE	PUMP CONTROL PANEL	— Y-STRAINER
— SPRINKLER ZONE SUBSIDIARY CONTROL VALVE ASSEMBLY INCLUDES ZONE SUBSIDIARY CONTROL VALVE, FLOW SWITCH, TEST GATE VALVE AND DRAIN VALVE	SELF-CONTAINED EMERGENCY FLUORESCENT LIGHTING UNIT	— SPRINKLER / F.S. INLET
— GATE VALVE	FLASH LIGHT	— SPRINKLER PROVING PIPE
— NON RETURN VALVE	— 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
○ VORTEX INHIBITOR	— H.R.	— MONITORED GATE VALVE
— BALL FLOAT VALVE	— SPRINKLER HEAD (SCHEMATIC DIAGRAM)	○ STAND-ALONE FIRE DETECTOR
— PRESSURE SWITCH	— GLOBE VALVE	
— SPRINKLER CONTROL VALVE SET	— FLOW METER	
— CHECK METER POSITION	— VORTEX INHIBITOR	
— SPRINKLER / F.S. INLET	— PRESSURE GAUGE WITH COCK	
— 5Kg CO ₂ TYPE FIRE EXTINGUISHER	— A.A.V.	
— 4Kg DRY POWDER TYPE FIRE EXTINGUISHER	— SPRINKLER / HOSE REEL PIPE	
— 20KG WHEEL TYPE DRY CHEMICAL FIRE EXTINGUISHER		

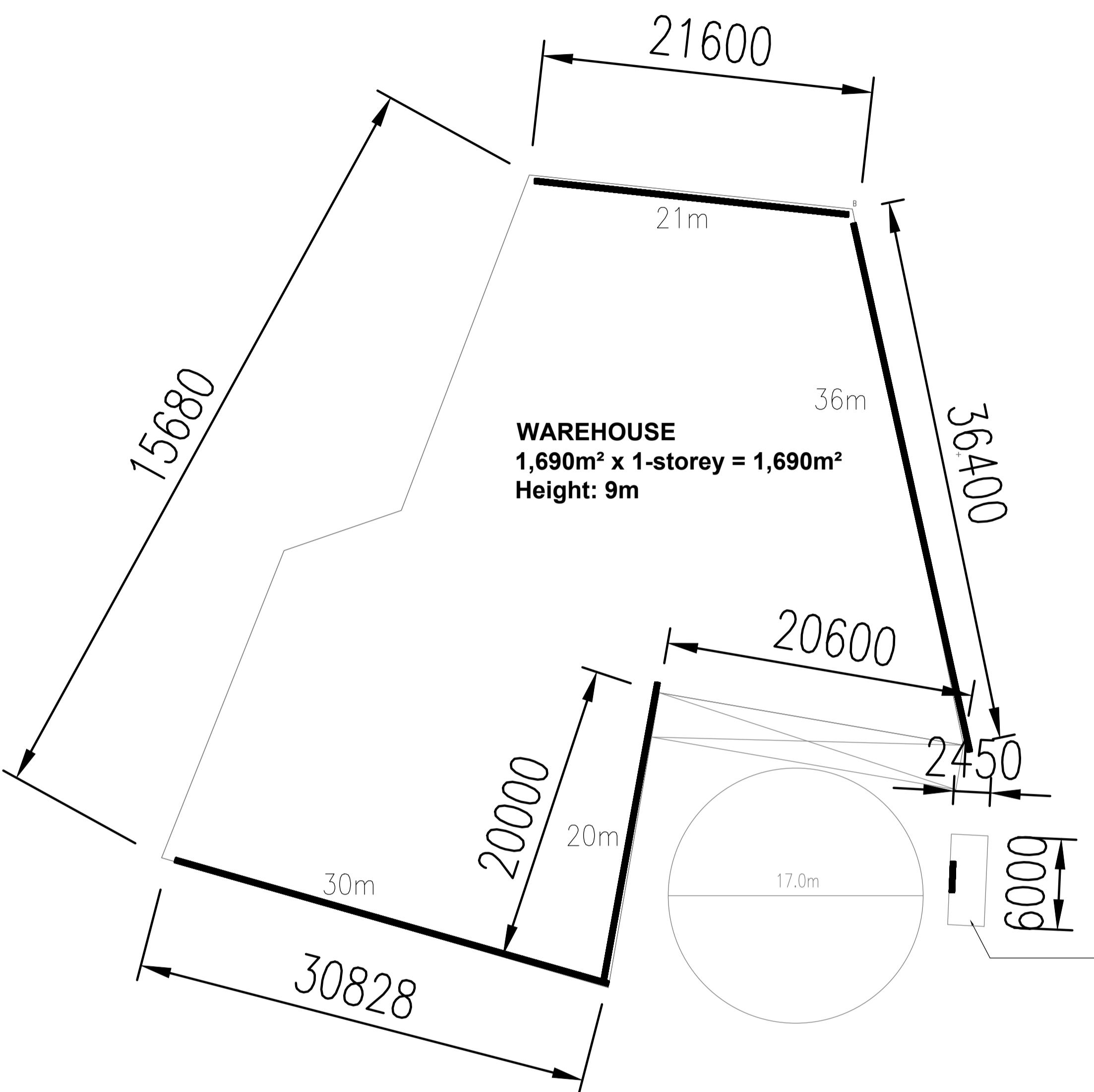
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0	TPB SUBMISSION	03-11-2025	LH			
REV	DESCRIPTION	DATE	BY			
FSI CONTRACTOR						
East Power Engineering Limited						
 Flat A, 7/F, Hop Shing Commercial Building 41 Chi Kiang Street, Tokwawan, Kowloon Fax. : 2394-3772 Tel. : 2397-3238						
PROJECT						
PROPOSED TEMPORARY WAREHOUSE FOR STORAGE OF CONSTRUCTION MATERIALS FOR A PERIOD OF 3 YEARS						
LOTS 1672 (PART), 1673 (PART), 1675 (PART), 1676 (PART), 1677 (PART) AND 1678 (PART) IN D.D. 129 AND ADJOINING GOVERNMENT LAND, LAU FAU SHAN, YUEN LONG, NEW TERRITORIES						
REFERENCE NO.: A/YL-LFS-497						
DRAWING TITLE						
FS NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST						
DRAWN BY	HY	Eng.T	13-10-2025			
DESIGNED BY	HY	Eng.T	13-10-2025			
CHECKED BY	CM	PM	13-10-2025			
APPROVED BY	-	-	-			
PROJECT NO.	A/YL-LFS-497					
PAPER SIZE	A1					
DRAWING NO.						
YL-LFS497-FS01						
SCALE	NTS	REVISION	1			



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PROJECT			
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REFERENCE NO.: A/YL-LFS-497			
DRAWING TITLE			
SPRINKLER WATER SYSTEM FOR G/F			
	INITIAL	DESIGNATION	DATE
DRAWN BY	HY	Eng.T	13-10-2025
DESIGNED BY	HY	Eng.T	13-10-2025
CHECKED BY	CM	PM	13-10-2025
APPROVED BY	-	-	-
PROJECT NO.	A/YL-LFS-497		
PAPER SIZE	A1		
DRAWING NO.			
YL-LFS497-FS02			
SCALE	1:150	REVISION	1

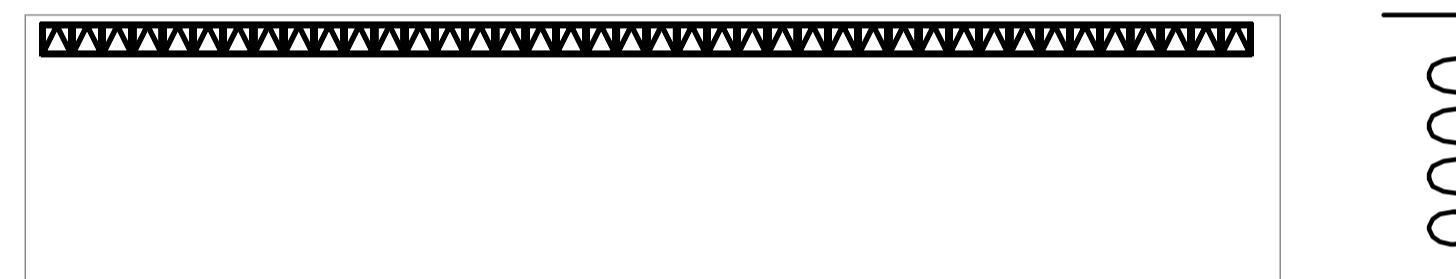


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FSI CONTRACTOR			
East Power Engineering Limited			
 Flat A, 7/F., Hop Shing Commercial Building 41 Chi Kiang Street, Tokwawan, Kowloon Fax. : 2394-3772 Tel. : 2397-3238			
PROJECT			
PROPOSED TEMPORARY WAREHOUSE FOR STORAGE OF CONSTRUCTION MATERIALS FOR A PERIOD OF 3 YEARS LOTS 1672 (PART), 1673 (PART), 1675 (PART), 1676 (PART), 1677 (PART) AND 1678 (PART) IN D.D. 129 AND ADJOINING GOVERNMENT LAND, LAU FAU SHAN, YUEN LONG, NEW TERRITORIES			
REFERENCE NO.: A/YL-LFS-497			
DRAWING TITLE			
FS SYSTEM FOR G/F			
	INITIAL	DESIGNATION	DATE
DRAWN BY	HY	Eng.T	13-10-2025
DESIGNED BY	HY	Eng.T	13-10-2025
CHECKED BY	CM	PM	13-10-2025
APPROVED BY	-	-	-
PROJECT NO.	A/YL-LFS-497		
PAPER SIZE	A1		
DRAWING NO.			
YL-LFS497-FS03			
SCALE	1:150	REVISION	1



H.B.W PLAN VIEW

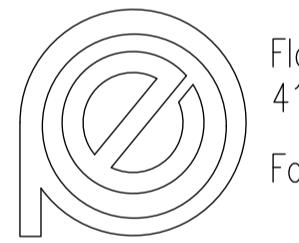
Area of High Bay Window (H.B.W) = 1m(H) x Total Length of windows



WAREHOUSE

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)	
WAREHOUSE	1690	$1690 \times 6.25\% = 105.63$	REFER TO LAYOUT: $=(21+36+20+30)=107*1.0=107$	TOTAL = <u>107</u> > <u>105.63</u>

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CHECKED BY	CM	PM	13-10-2025			
APPROVED BY	-	-	-			
PROJECT NO.	A/YL-LFS-497					
PAPER SIZE	A1					
DRAWING NO.						
YL-LFS497-W001						
SCALE	1:150	REVISION	1			