

FIRE SERVICES NOTES:

1. HOSE REEL SYSTEM

- 1.1 HR SYSTEM TO BE PROVIDED AND INSTALLED FOR THE STRUCTURE B IN ACCORDANCE WITH THE CODE OF PRACTICE FOR MINIMUM FIRE SERVICE INSTALLATIONS AND EQUIPMENT.
- 1.2 HOSE REELS SHALL BE PROVIDED AT THE POSITIONS INDICATED ON PLAN.
- 1.3 SUFFICIENT HOSE REELS TO BE PROVIDED TO ENSURE THAT EVERY PART OF THE AREA CAN BE REACHED BY A LENGTH OF NOT MORE THAN 30m OF HOSE REEL TUBING.
- 1.4 AN MODIFIED HOSE REEL SYSTEM WITH 2000L F.S. WATER TANK TO BE PROVIDED AND TO BE SINGLE END FEED FROM TOWN MAIN. THE LOCATION OF THE FS WATER TANK AND FS PUMP ROOM ARE CLEARLY MARKED ON PLANS.
- 1.5 TWO FIXED FIRE PUMPS (DUTY & STANDBY) TO BE PROVIDED IN THE PUMP ROOM.
- 1.6 NO FIRE SERVICES INLET TO BE PROVIDED FOR THE MODIFIED HOSE REEL SYSTEM.
- 1.7 AN INSTRUCTION PLATE SHALL BE PROVIDED NEXT TO THE BREAK GLASS UNIT FOR OPERATION OF HOSE REEL

2. AUTOMATIC SPRINKLER SYSTEM

- 2.1 AUTOMATIC SPRINKLER SYSTEM TO BE PROVIDED TO STRUCTURE B CORRESPONDINGLY IN ACCORDANCE WITH LPC RULES INCORPORATING BS EN12845 : 2015 AND FSD CIRCULAR LETTER 5/2020. THE SPRINKLER TANK, SPRINKLER PUMP ROOM, SPRINKLER INLET AND SPRINKLER CONTROL VALVE GROUP SHALL BE CLEARLY MARKED ON PLANS.
- 2.2 THE CLASSIFICATION OF THE AUTOMATIC SPRINKLER INSTALLATION TO BE ORDINARY HAZARD GROUP 3.
- 2.3 A 135,000 LITERS SPRINKLER WATER TANK TO BE PROVIDED AS INDICATED ON PLAN.
- 2.4 SPRINKLER CONTROL VALVE SET AND SPRINKLER INLET TO BE PROVIDE AT GROUND FLOOR AND THE LOCATION AS INDICATED ON PLAN.
- 2.5 TWO FIXED FIRE PUMPS (DUTY & STANDBY) AND ONE SPRINKLER JOCKEY PUMP TO BE PROVIDED FOR SERVING THE STRUCTURE AND LOCATED IN PUMP ROOM.
- 2.6 ALL SPRINKLER PIPE SIZE SHOULD BE $\phi 32\text{mm}$ UNLESS SPECIFY.
- 2.7 ALL INSTALLED SPRINKLER SHOULD BE PENDENT TYPE AND THE TEMPERATURE RATING OF SPRINKLER HEAD SHALL BE 68°C UNLESS OTHERWISE SPECIFIED.
- 2.8 CATEGORY I MATERIAL ARE STORED IN STRUCTURE B. THE MATERIAL ARE STORED IN POST PALLETS IN SINGLE ROWS, WITH AISLES NOT LESS THAN 2,4 M WIDE (ST2). THE MAXIMUM STORAGE HEIGHT IS 3.5M.
- 2.9 STORAGE SHOULD BE CONFINED TO BLOCKS NOT EXCEEDING 50M² IN PLAN AREA FOR CATEGORY I.

3. FIRE DETECTION AND ALARM SYSTEM

- 3.1 FIRE DETECTION AND ALARM SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH BS 5839-1 : 2017 AND FSD CIRCULAR LETTER NO.6/2021.
- 3.2 ONE ACTUATING POINT AND ONE AUDIO WARNING DEVICE SHOULD BE LOCATED AT EACH HOSE REEL POINT. THE ACTUATION POINT SHOULD INCLUDE FACILITIES FOR FIRE PUMP START AND AUDIO / VISUAL WARNING DEVICE INITIATION. MANUAL CALL POINT SHOULD BE PROVIDED ADJACENT TO ALL EXITS TO OPEN AIR ON G/F.
- 3.3 FIRE DETECTION SYSTEM IS TO PROVIDED TO PROTECT THE AREA NOT COVERED BY AUTOMATIC SPRINKLER SYSTEM. HEAT DETECTORS WILL BE PROVIDED FOR THE TWO SPRINKLER PUMP ROOMS IN STRUCTURE B.
- 3.4 AN ADDRESSABLE TYPE FIRE ALARM PANEL TO BE PROVIDED AND LOCATED INSIDE PUMP ROOM.

4. EMERGENCY LIGHTING

- 4.1 SUFFICIENT EMERGENCY LIGHTING SHALL BE PROVIDED THROUGHOUT THE ENTIRE BUILDINGS/STRUCTURES IN ACCORDANCE WITH BS 5266: PART 1 AND BS EN 1838 AND FSD CIRCULAR LETTER 4/2021.

5. EXIT SIGN

- 5.1 SUFFICIENT DIRECTIONAL AND EXIT SIGN SHALL BE PROVIDED IN ACCORDANCE WITH BS 5266: PART 1 AND FSD CIRCULAR LETTER 5/2008.

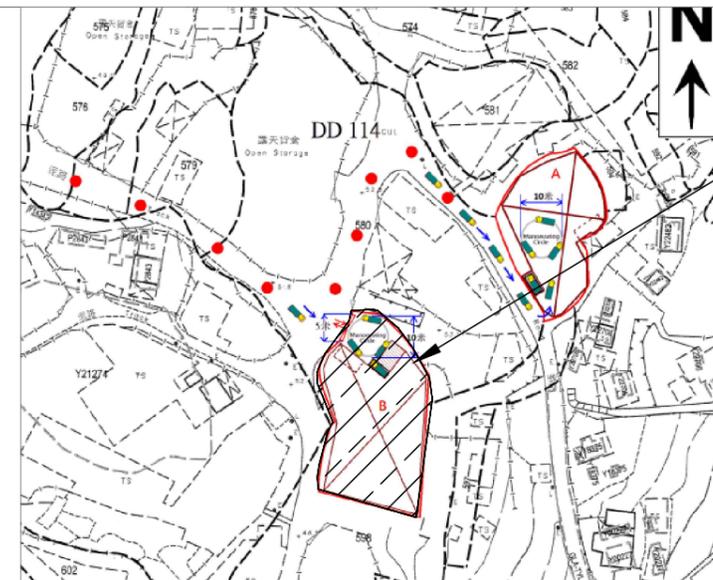
6. MISCELLANEOUS F.S. INSTALLATION

- 6.1 PORTABLE FIRE EXTINGUISHERS WITH SPECIFIED TYPE AND CAPACITY TO BE PROVIDED AT LOCATION AS INDICATED ON PLANS.
- 6.2 **NO** EMERGENCY GENERATOR TO BE PROVIDED FOR SERVING THE EMERGENCY POWER. DUPLICATED POWER SUPPLIES FOR ALL FIRE SERVICES INSTALLATIONS COMPRISING A CABLE CONNECTED FROM ELECTRICITY MAINS DIRECTLY BEFORE THE MAIN SWITCH.
- 6.3 **NO** DYNAMIC SMOKE EXTRACTION SYSTEM SHALL BE PROVIDED SINCE FIRE COMPARTMENT OF STRUCTURE A & B NOT EXCEEDING 7000 CUBIC METERS.
- 6.4 ANY INTENDED STORAGE OR USE OF DANGEROUS GOODS AS DEFINED IN CHAPTER 295 OF THE LAWS OF HONG KONG SHOULD BE NOTIFIED TO THE DIRECTOR OF FIRE SERVICES

7. NOTES FOR WATERWORKS

- 7.1 ALL EQUIPMENT USED IN THE INSTALLATION SHALL BE OF THE APPROVED TYPE AND APPROVED MAKE BY THE H.K.F.S.D.
- 7.2 ALL OVERFLOW PIPE OF WATER TANKS SHALL BE DISCHARGED IN A CONSPICUOUS POSITION TO THE COMMUNAL AREA WHERE IT IS EASILY VISIBLE AND ACCESSIBLE BY THE OCCUPANTS.
- 7.3 ALL ABOVE GROUND PIPEWORKS UP TO INCLUDING $\phi 150\text{mm}$ SHALL BE GALVANIZED MILD STEEL (G.M.S.) PIPES TO BS 1387 MEDIUM GRADE AND JOINTED WITH SCREWED FITTINGS, SCREWED FLANGES, OR SCREWED UNIONS.
- 7.4 ALL UNDERGROUND PIPEWORKS UP TO AND INCLUDING $\phi 150\text{mm}$ SHALL BE GALVANIZED MILD STEEL (G.M.S) PIPE TO BS 1387 HEAVY GRADE AND JOINTED WITH SCREWED FITTINGS, SCREWED FLANGES, OR SCREWED UNIONS.
- 7.5 ALL PIPEWORKS FROM $\phi 150\text{mm}$ UPWARDS SHALL BE DUCTILE IRON (D.I) TO BS 4722 AND JOINTED WITH FLANGE AND FLANGED FITTINGS.
- 7.6 ALL COPPER ALLOY GATE VALVE SHALL CONFORM TO BS 5154 AND CHECK VALVES CONFORM TO BS 5153.

- 7.7 ALL BALL FLOAT VALVES SHALL CONFORM TO BS 1221, PART 1.
- 7.8 NO WATER PIPE SHALL BE EMBEDDED WITHIN LOAD BEARING STRUCTURAL ELEMENTS SUCH AS COLUMNS, BEAMS AND SLABS IN LONGITUDINAL DIRECTION.



SITE LOCATION PLAN (N.T.S)

LEGEND (FOR LAYOUT PLAN)

- [H.R.] HOSE REEL W/ LOCKABLE GLASS FRONTED NOZZLE BOX, STRIKER, C/W FIRE ALARM BELL & BREAK GLASS UNIT
- ⊕ 150mm FIRE ALARM BELL
- ⊕ BREAK GLASS UNIT
- ⊕ SPRINKLER HEAD
- ⊕ FLOW SWITCH
- ⊕ MONITORED GATE 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 / HOSE REEL PIPE
- ⊕ SPRINKLER CONTROL VALVE SET
- ⊕ CHECK METER POSITION
- ⊕ SPRINKLER INLET
- ⊕ Y-STRAINER
- ⊕ 5Kg CO2 TYPE FIRE EXTINGUISHER
- ⊕ 4Kg DRY POWDER TYPE FIRE EXTINGUISHER
- ⊕ HEAT DETECTOR
- ⊕ HOSE REEL / SPRINKLER PUMP
- ⊕ 150mm WATER ALARM GONG
- ⊕ ADDRESSABLE TYPE FIRE ALARM PANEL
- ⊕ PUMP CONTROL PANEL
- ⊕ EMERGENCY LIGHT (2 HOURS BATTERY BACK UP)
- ⊕ EXIT SIGN
- ⊕ PRESSURE GAUGE
- ⊕ FLEXIBLE CONNECTOR
- ⊕ SPRINKLER CONTROL VALVE
- ⊕ AUTOMATIC AIR VENT
- ⊕ SPRINKLER WATER ALARM GONG

ABBREVIATION

- SPR. SPRINKLER
- H.R. HOSE REEL
- F.E. FIRE EXTINGUISHER
- CO₂ CARBON DIOXIDE
- L.P.C. LOSS PREVENTION COUNCIL
- F.S.I. FIRE SERVICES INSTALLATION
- H/L HIGH LEVEL
- M/L MID LEVEL
- L/L LOW LEVEL
- F/A FROM ABOVE
- F/B FROM BELOW
- T/A TO ABOVE
- T/B TO BELOW
- U/G UNDERGROUND
- F.S. FIRE SERVICES

COLOUR CODE

PIPE SIZES	COLOUR
25mm	LIGHT GREEN
32mm	RED
40mm	PURPLE
50mm	YELLOW
65mm	BLUE
80mm	GREEN
100mm	LIGHT BROWN
150mm	DEEP BROWN

DRAWING LIST

DRAWING NO	DESCRIPTION
EP-20338B-FS01	FS NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST
EP-20338B-FS02	PROPOSED FSI LOW LEVEL LAYOUT PLAN FOR STRUCTURE B
EP-20338B-FS02A	PROPOSED FSI HIGH LEVEL LAYOUT PLAN FOR STRUCTURE B
EP-20338B-FS03	PROPOSED FSI SCHEMATIC DIAGRAM FOR SPRINKLER SYSTEM
EP-20338B-FS04	PROPOSED FSI SCHEMATIC DIAGRAM FOR HOSE REEL SYSTEM

Appendix Ib

LOTS 598 S.B. IN D.D. 114

REV	DESCRIPTION	DATE	BY
D	WSD SUBMISSION	DEC-2025	DL
C	WSD SUBMISSION	JULY-2025	DL
B	WSD SUBMISSION	02-06-2024	WC
A	WSD SUBMISSION	04-04-2024	WC

FSI CONTRACTOR

East Power Engineering Limited

Flat A, 7/F., Hop Shing Commercial Building
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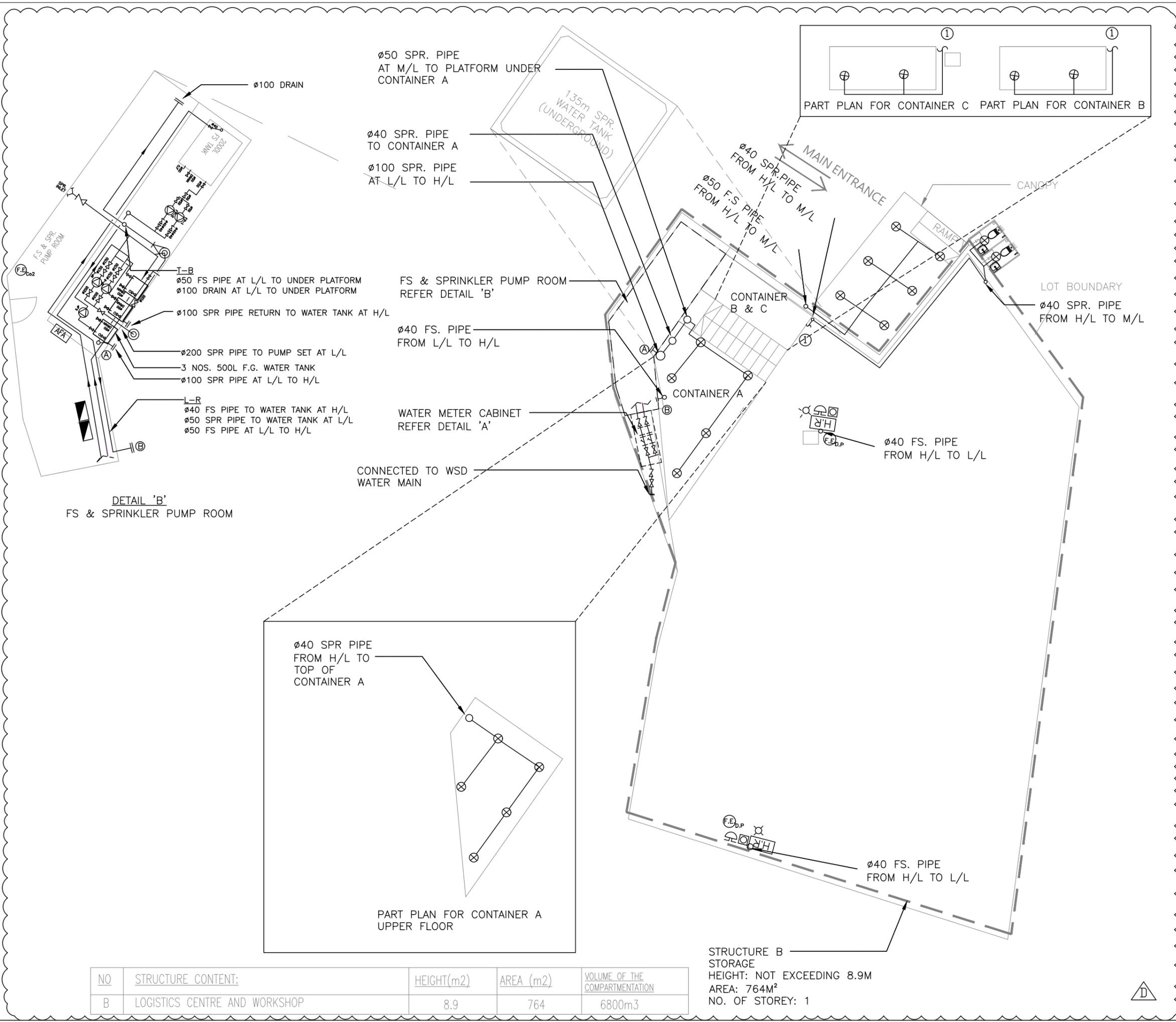
PROJECT

GOLDEN HONEST INVESTMENT DEVELOPMENT
元朗八鄉磚窰路 黃竹園村27號
(DD114 LOT 598SB)

DRAWING TITLE

FS NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST

	INITIAL	DESIGNATION	DATE
DRAWN BY	HY	Eng.T	22-11-2015
DESIGNED BY	HY	Eng.T	22-11-2015
CHECKED BY	CM	PM	22-11-2015
APPROVED BY	-	-	-
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PAPER SIZE	A3	PLOT SCALE	1 : 1
DRAWING NO.	EP-20338B-FS01		
SCALE	N. T. S.	REVISION	D



D	WSD SUBMISSION	DEC-2025	DL
C	WSD SUBMISSION	JULY-2025	DL
B	WSD SUBMISSION	02-06-2024	WC
A	WSD SUBMISSION	04-04-2024	WC
REV	DESCRIPTION	DATE	BY

FSI CONTRACTOR
East Power Engineering Limited
 Flat A, 7/F., Hop Shing Commercial Building
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PROJECT
GOLDEN HONEST INVESTMENT DEVELOPMENT
 元朗八鄉磚窰路 黃竹園村27號
 (DD114 LOT 598SB)

DRAWING TITLE
PROPOSED FSI LOW LEVEL LAYOUT PLAN FOR STRUCTURE B

	INITIAL	DESIGNATION	DATE
DRAWN BY	HY	Eng.T	22-11-2015
DESIGNED BY	HY	Eng.T	22-11-2015
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APPROVED BY	-	-	-
PROJECT NO.	20338-SK279		
PAPER SIZE	A3	PLOT SCALE	1 : 1
DRAWING NO.	EP-20338B-FS02		
SCALE	1 : 200	REVISION	D

NO	STRUCTURE CONTENT:	HEIGHT(m2)	AREA (m2)	VOLUME OF THE COMPARTMENTATION
B	LOGISTICS CENTRE AND WORKSHOP	8.9	764	6800m ³

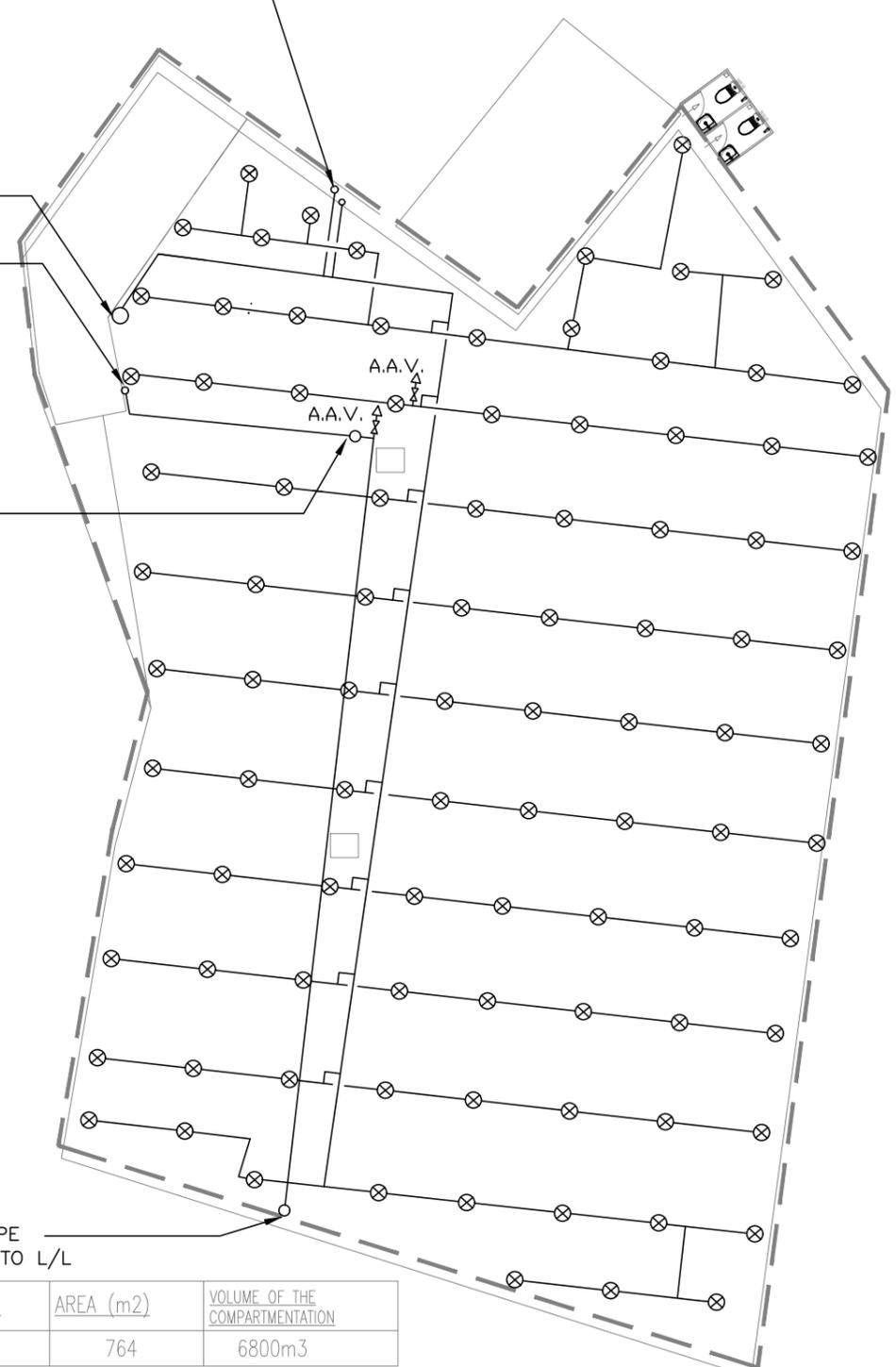


L TO R
 ø50 SPR.PIPE
 FROM H/L TO L/L
 ø40 SPR.PIPE
 FROM H/L TO M/L

ø100 SPR. PIPE
 FROM H/L TO L/L
 ø40 FS. PIPE
 FROM H/L TO L/L

ø40 FS. PIPE
 FROM H/L TO L/L

ø40 F.S PIPE
 FROM H/L TO L/L



NO	STRUCTURE CONTENT:	HEIGHT(m2)	AREA (m2)	VOLUME OF THE COMPARTMENTATION
B	LOGISTICS CENTRE AND WORKSHOP	8.9	764	6800m3

GROUND FLOOR HIGH LEVEL PLAN

REV	DESCRIPTION	DATE	BY
D	WSD SUBMISSION	DEC-2025	DL
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B	WSD SUBMISSION	02-06-2024	WC
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 元朗八鄉磚窰路 黃竹園村27號
 (DD114 LOT 598SB)

DRAWING TITLE
PROPOSED FSI HIGH LEVEL LAYOUT PLAN FOR STRUCTURE B

	INITIAL	DESIGNATION	DATE
DRAWN BY	HY	Eng.T	22-11-2015
DESIGNED BY	HY	Eng.T	22-11-2015
CHECKED BY	CM	PM	22-11-2015
APPROVED BY	-	-	-

PROJECT NO. 20338-SK279
 PAPER SIZE A3 PLOT SCALE 1 : 1

DRAWING NO.
 EP-20338B-FS02A

SCALE	REVISION	DATE
1 : 200	D	



PUMP SCHEDULE

DESCRIPTION	PRESSURE (BAR)	FLOW (L/MIN.)	PUMP SPEED (RPM)	PUMP RATING (KW)	POWER SUPPLY (volts/phases/Hz)
SPRINKLER JOCKEY PUMP (SJP-1)	4.5	60	2900 MAXIMUM	2.2 KW	380/3/50
TWO SPRINKLER PUMPS (SP-1 AS DUTY & SP-2 AS STAND-BY PUMP)	1.4 / 2.9 / 3.2	2250 / 1350 / 1100	2900 MAXIMUM	18.5 KW	380/3/50

CALCULATION OF SPRINKLER PIPE PRESSURE LOSS FOR SPR. CONTROL VALVE SET

RUN OF DISTRIBUTION PIPE FROM CONTROL VALVE TO DESIGN POINT	PIPE SIZE (mm)	PIPE LENGTH (m)	FITTINGS NOS.	EQU. LENGTH OF FITTINGS	TOTAL EQUIV. LENGTH OF FITTINGS	TOTAL EQUIV PIPE LENGTH	
PIPE TO DESIGN POINT D	150	65.2	TEE	0		84.6	
			GATE VALVE	2	1.1		2.2
			90° ELBOW	4	4.3		17.2
PIPE TO DESIGN POINT D	100	9	TEE	0		9	
			GATE VALVE	0			
			90° ELBOW	0			

REMARK:

IN ALL SECTIONS THE PRESSURE LOSS IN THE DISTRIBUTION PIPE IS LESS THAN 500 mb (0.5 BAR) THE CALCULATION OF PIPE FRICTION LOSS IS BASED ON HAZEN-WILLIAMS FORMULA

$$P_1 = \frac{6.05 \times 10^5}{C^{1.85} \times d^{4.87}} \times L \times Q^{1.85} \quad (\text{FOR } 150\text{mm}) \quad P_2 = \frac{6.05 \times 10^5}{C^{1.85} \times d^{4.87}} \times L \times Q^{1.85} \quad (\text{FOR } 100\text{mm})$$

$$P_1 = (0.2 \times 10^{-8}) \times L \times Q^{1.85} \quad P_2 = (1.5 \times 10^{-8}) \times L \times Q^{1.85}$$

$$P_1 = 0.065 \text{ BAR}$$

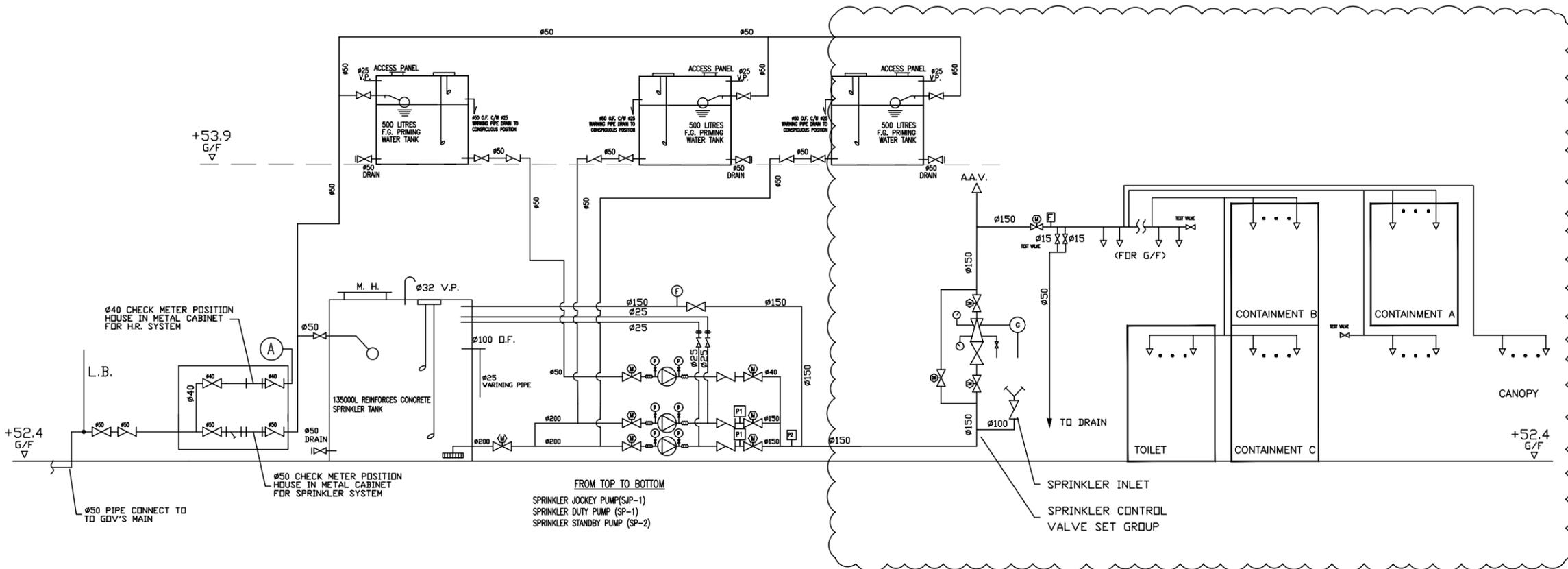
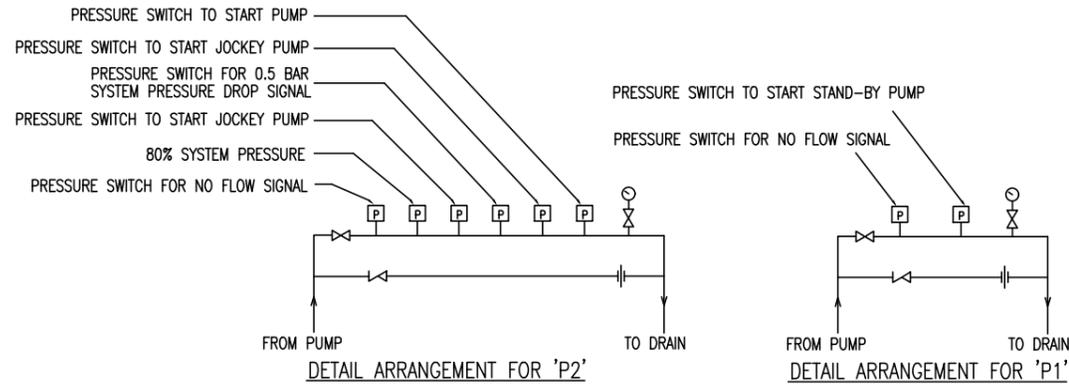
$$P_2 = 0.050 \text{ BAR}$$

TOTAL PRESSURE LOSS IN DISTRIBUTION PIPE FROM SPRINKLER CONTROL VALVE TO DESIGN POINT:

$$P = P_1 + P_2$$

$$P = 0.065 + 0.050$$

$$P = 0.115 \text{ (LESS THAN } 0.5 \text{ BAR)}$$



SCHEMATIC DIAGRAM FOR SPRINKLER SYSTEM

REV	DESCRIPTION	DATE	BY
D	WSD SUBMISSION	DEC-2025	DL
C	WSD SUBMISSION	JULY-2025	DL
B	WSD SUBMISSION	02-06-2023	WC
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SCHEMATIC DIAGRAM FOR SPRINKLER SYSTEM

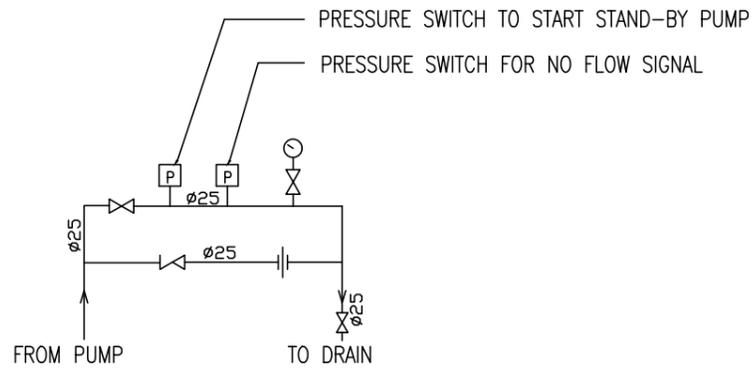
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APPROVED BY	-	-	-

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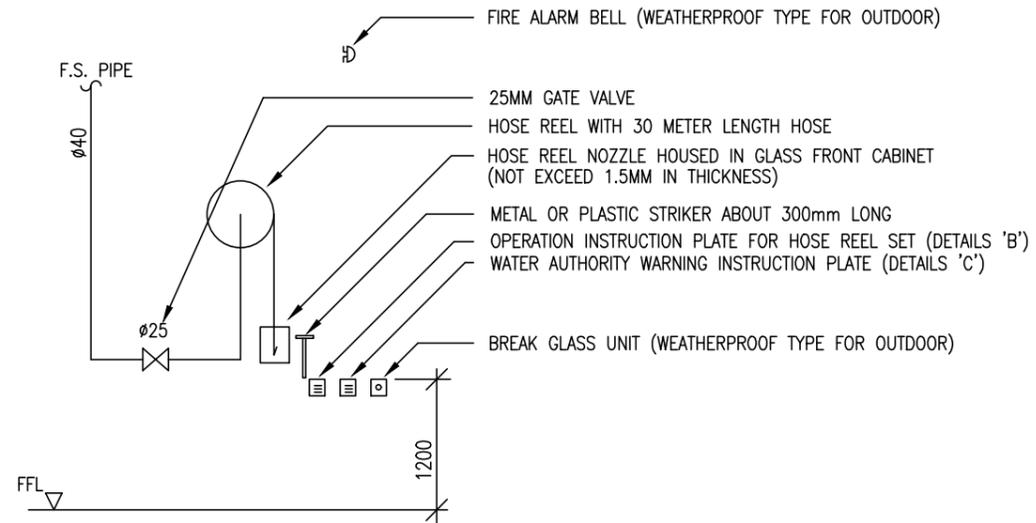


PUMP SCHEDULE

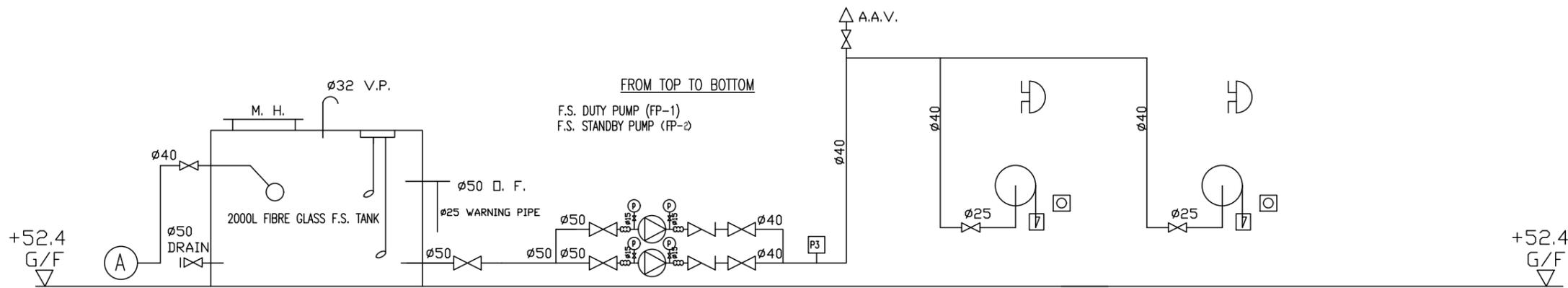
DESCRIPTION	PRESSURE (BAR)	FLOW (L/MIN.)	PUMP SPEED (RPM)	PUMP RATING (KW)	POWER SUPPLY (volts/phases/Hz)
TWO FIRE SERVICES PUMPS (FP-1 AS DUTY & FP-2 AS STANDBY PUMP)	6	3.3	2900 MAXIMUM	2.2KW	380/3/50



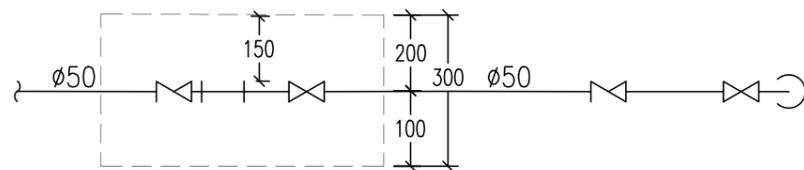
DETAIL ARRANGEMENT FOR 'P3'



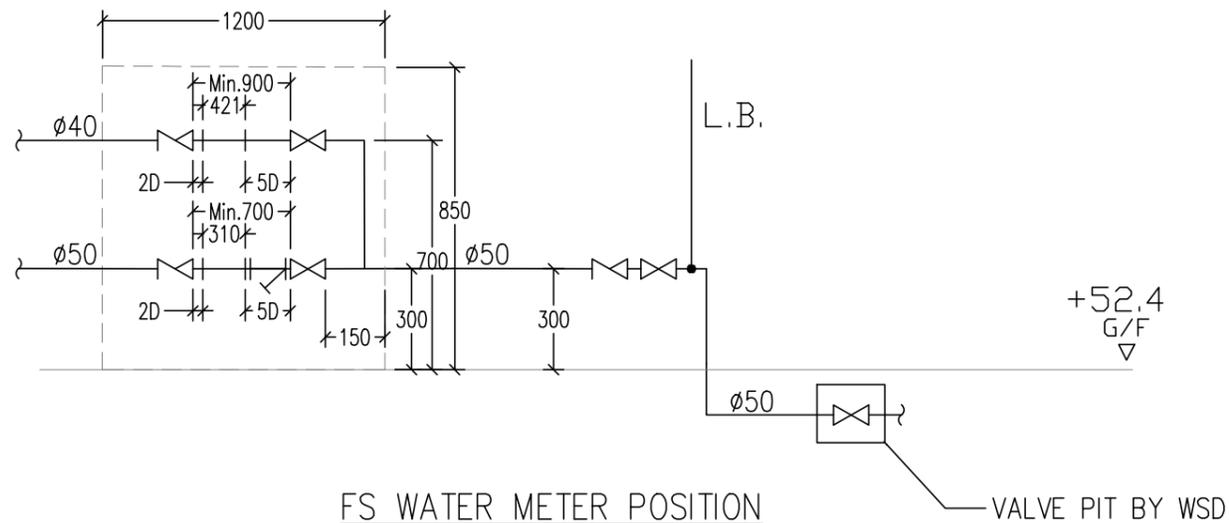
TYPICAL ARRANGEMENT OF HOSE REEL



SCHEMATIC DIAGRAM FOR HOSE REEL SYSTEM



FS WATER METER POSITION (PLAN VIEW)



FS WATER METER POSITION

VALVE PIT BY WSD

D	WSD SUBMISSION	DEC-2025	DL
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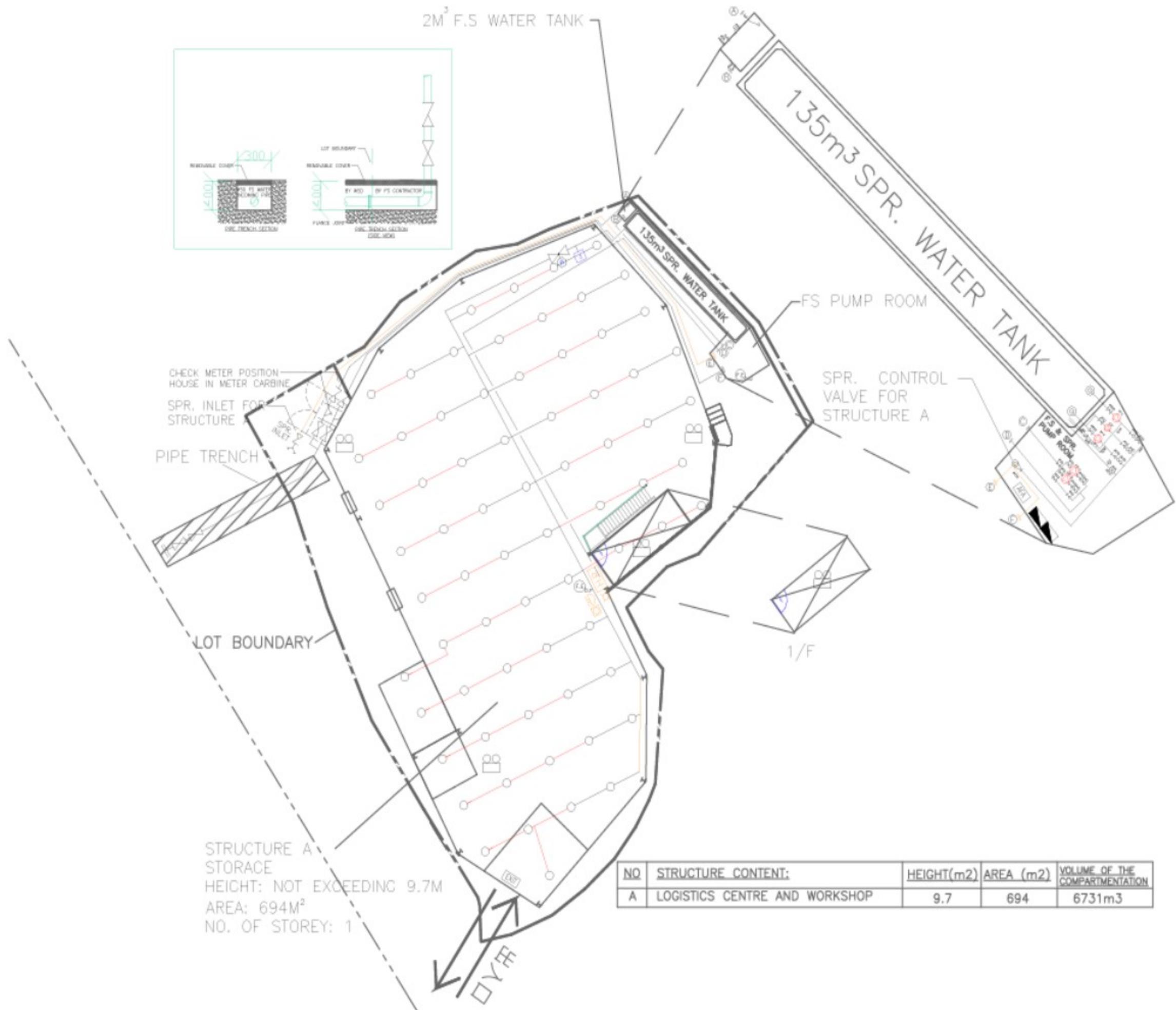
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PAPER SIZE A3 PLOT SCALE 1 : 1

DRAWING NO.

EP-20338B-FS04

SCALE	N. T. S.	REVISION	D



STRUCTURE A
STORAGE
HEIGHT: NOT EXCEEDING 9.7M
AREA: 694M²
NO. OF STOREY: 1

NO	STRUCTURE CONTENT:	HEIGHT(m2)	AREA (m2)	VOLUME OF THE COMPARTMENTATION
A	LOGISTICS CENTRE AND WORKSHOP	9.7	694	6731m ³

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- 2.8 STORAGE BLOCKS SHOULD BE SEPARATED BY AISLES NO LESS THAN 2.4m WIDE.
- 2.9 STORAGE SHOULD BE CONFINED TO BLOCKS NOT EXCEEDING 150m IN PLAN AREA FOR CATEGORY I.

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- 6.2 NO EMERGENCY GENERATOR TO BE PROVIDED FOR SERVING THE EMERGENCY POWER. DUPLICATED POWER SUPPLIES FOR ALL FIRE SERVICES INSTALLATIONS COMPRISING A CABLE CONNECTED FROM ELECTRICITY MAINS DIRECTLY BEFORE THE MAIN SWITCH.
- 6.2 WHEN A VENTILATION / AIR CONDITIONING CONTROL SYSTEM TO A BUILDING IS PROVIDED, IT SHALL STOP MECHANICALLY INDUCED AIR MOVEMENT WITHIN A DESIGNATED FIRE COMPARTMENT.
- 6.3 NO DYNAMIC SMOKE EXTRACTION SYSTEM SHALL BE PROVIDED SINCE THE FIRE COMPARTMENT OF STRUCTUR 1 & 2 NOT EXCEEDING 7000 CUBIC METRES.

LEGEND (FOR LAYOUT PLAN)

	HOSE REEL W/ LOCKABLE GLASS FRONTED NOZZLE BOX, STRIKER, C/W FIRE ALARM BELL & BREAK GLASS UNIT
	150mm FIRE ALARM BELL
	BREAK GLASS UNIT
	SPRINKLER HEAD
	FLOW SWITCH
	MONITORED GATE 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 / HOSE REEL PIPE
	SPRINKLER CONTROL VALVE SET
	CHECK METER POSITION
	SPRINKLER / F.S. INLET
	5Kg CO2 TYPE FIRE EXTINGUISHER
	4Kg DRY POWDER TYPE FIRE EXTINGUISHER
	PUMP
	150mm WATER ALARM GONG
	EMERGENCY LIGHTING
	EXIT SIGN
	ADDRESSABLE TYPE FIRE ALARM PANEL
	PUMP CONTROL PANEL
	SELF-CONTAINED EMERGENCY FLUORESCENT LIGHTING UNIT
	EXISTING F. S. INSTALLTION

ABBREVIATION

H.R.	HOSE REEL
F.S.	FIRE SERVICES
SPR.	SPRINKLER
U/G	UNDERGROUND
T/A	TO ABOVE
T/B	TO BELOW
F/A	FROM ABOVE
F/B	FROM BELOW
H/L	HIGH LEVEL
M/L	MIDDLE LEVEL
L/L	LOW LEVEL
W/	WITH
FFL	FINISHED FLOOR LEVEL
FE	FIRE EXTINGUISHER
DP	DESIGN POINT

DRAWING LIST

DRAWING NO	DESCRIPTION
EP-20338-FS01	FS NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST
EP-20338-FS02	FSI LAYOUT PLAN - STRUCTURE 1
EP-20338-FS03	FSI LAYOUT PLAN - STRUCTURE 2

消防設計附圖(1)

REV	DESCRIPTION	DATE	BY
A	REVISION	20-12-2021	JN

FSI CONTRACTOR
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PROJECT
TEMPORARY LOGISTICS CENTRE AND WORKSHOP FOR A PERIOD OF 3 YEARS AT LOTS 580(PART), 595, 598 S.A.(PART) AND 598 S.B.(PART) IN D.D. 114, SHEK KONG, YUEN LONG.

DRAWING TITLE
FS NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST

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DESIGNED BY	CM	PM	30-05-2020
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