B. D. REFERENCE :

F. S. D. REFERENCE :

NOTES :

1. ALL DIMENTSIONS ARE IN MILLIMETER.

BLOCK PLAN SCALE 1:1000

SCHEDULE OF PIPE MATERIALS

LOCATION	USAGE	MATERIAL STANDARD
ABOVEGROUND	PIPE WORK UP TO & & INCLUDING 150MM DIAMETER	GALVANIZED MILD STEEL PIPES TO BS1387 MEDIUM GRADE FOR SCREWING TO BS21 PIPE THREADS
UNDERGROUND	PIPE WORK UP TO & INCLUDING 150MM DIAMETER	GALVANIZED MILD STEEL PIPES TO BS1387 HEAVY GRADE FOR SCREWING TO BS21 PIPE THREADS (WRAPPED WITH BITUMENT FELT)
ABOVEGROUND	PIPE WORK 200MM DIAMETER	DUCTILE IRON PIPES TO BS EN545:2002, CLASS K9 COLD BITUMEN COATED EXTERNALLY AND INTERNALLY TO BS 3416:1991 TYPE II

DRAWING LIST

DRAWING NO.	REVISION	DRAWING TITLE
FS-1	D	F.S. NOTES, BLOCK PLAN, LEGEND, ABBREVIATION, DRAWING LIST, PIPE MATERIAL SCHEDULE, PUMP SCHEDULE, VERTICAL LINE DIAGRAM & COLOUR CODE SCHEDULE
FS-2	D	F.S. LAYOUT PLAN & USABLE GROSS FLOOR AREA

PUMP SCHEDULE

DESCRIPTION	PRESSURE (BAR)	FLOW (L/MIN.)	PUMP SPEED (RPM)	PUMP RATING (KW)	POWER SUPPLY (volts/phases/Hz)
EX. TWO HOSE REEL PUMPS (FSP-1 AS DUTY & FSP-2 AS STAND-BY PUMP OR VISE VERSA)	5.5	30	2900 MAXIMUM	1.5 KW	380/3/50
TWO SPRINKLER BOOSTER PUMPS (SPR-1 AS DUTY & SPR-2 AS STAND-BY PUMP OR VISE VERSA)	2.9 / 1.3	1177 / 2011	2900 MAXIMUM	18.5 KW	380/3/50
SPRINKLER JOCKEY PUMP (SPJ-1)	5.5	30	2900 MAXIMUM	1.5 KW	380/3/50

FIRE SERVICES NOTE:

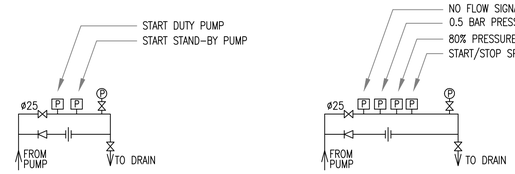
1. NO STORAGE OF DANGEROUS GOODS WITHOUT THE PERMISSION BY THE DIRECTOR OF FIRE SERVICES. ANY INTENDED STORAGE OR USE DEFINED IN CHAPTER 295 OF THE LAWS OF HONG KONG SHOULD BE NOTIFIED TO THE DIRECTOR OF FIRE SERVICES.
2. EXISTING FIRE ALARM SYSTEM WAS PROVIDED TO THE ENTIRE BUILDING IN ACCORDANCE WITH BS 5839-PART 1:2002 + A2:2008 AND FIRE SERVICES DEPARTMENT (FSD) CIRCULAR LETTER NO. 1/2009. ONE ACTUATING POINT AND ONE AUDIO WARNING DEVICE TO BE LOCATED AT EACH HOSE REEL POINT. THE ATUATION POINT SHOULD INCLUDE FACILITIES FOR FIRE PUMP START AND AUDIO / VISUAL WARNING DEVICE INITIATION.
3. AN EXISTING HOSE REEL SYSTEM WITH 2000 LITER CAPACITY F.S. WATER TANK WAS PROVIDED. THERE WAS SUFFICIENT HOSE REELS TO ENSURE THAT EVERY PART OF EACH BUILDING CAN BE REACHED BY A LENGTH OF NOT MORE THAN 30M OF HOSE REEL TUBING FOR THE ENTIRE BUILDING.
4. SUFFICIENT EMERGENCY LIGHTING SHALL BE PROVIDED THROUGHOUT THE ENTIRE BUILDING IN ACCORDANCE WITH BS 5266 : PART 1 AND BS EN 1838.
5. SUFFICIENT DIRECTIONAL AND EXIT SIGN SHALL BE PROVIDED IN ACCORDANCE WITH BS 5266 : PART 1 AND FSD CIRCULAR LETTER NO. 5/2008.
6. SECONDARY POWER SUPPLY CONNECTED IN FRONT OF THE MAIN SWITCH SHALL BE PROVIDED AS THE EMERGENCY POWER SUPPLY FOR THE F.S. INSTALLATION FOR THE PREMISES.
7. 5KG CO2 FIRE EXTINGUISHER SHALL BE PROVIDED NEAR F.S. PUMP ENCLOSURE AND IN SPRINKLER PUMP & CONTROL ROOM.
8. NEW AUTOMATIC SPRINKLER SYSTEM SUPPLIED BY A 35 000 LITRE SPRINKLER WATER TANK AND HAZARD CLASS 3 SHALL BE PROVIDED TO THE TO THE ENTIRE BUILDING (EXCEPT RESIDENCE) IN ACCORDANCE WITH BS EN12845:2003 AND FSD CIRCULAR LETTER 3/2006, 4/2010 & 3/2012.
9. ALL FIRE ALARM SIGNALS SHALL BE COONECTED TO F.S.C.C./CHUBB CENTRE THROUGH DIRECT TELEPHONE LINE.

LEGEND

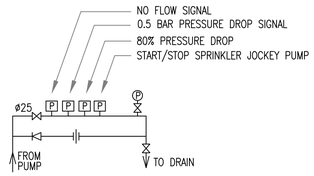
SYMBOL	DESCRIPTION
H.R. P	HOSE REEL W/30 M. LENGTH HOSE, STRIKER, LOCKABLE GLASS FRONT BOX, FIRE ALARM BELL & BREAK GLASS UNIT
	FIRE ALARM BELL (WEATHER PROOF FOR OUTDOOR)
	BREAK GLASS UNIT (WEATHER PROOF FOR OUTDOOR)
	GATE VALVE
	NON RETURN VALVE
	Y-STRAINER
	BALL FLOAT VALVE
P	PRESSURE SWITCH
F	FLOW SWITCH
Ⓕ	FLOW SWITCH ASSEMBLY
Ⓟ	PRESSURE GAUGE
A.A.V.	AUTOMATIC AIR VENT WITH COCK
	FIRE PUMP
	LEVEL SWITCH
	MONITORED GATE VALVE
m	DIRECT READING FLOW METER
	68°C SPRINKLER HEAD
	VORTEX INHIBITOR
EXIT	EXIT SIGN BOX EQUIPPED WITH CHARGER AND BATTERY BACK-UP
	F.S. / SPRINKLER PIPE
	EXISTING MATERIAL/EQUIPMENT

ABBREVIATION

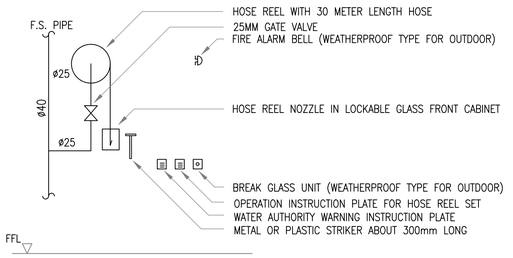
H.R.	HOSE REEL
F.S.	FIRE SERVICES
SPR	SPRINKLER
U/G	UNDERGROUND
T/A	TO ABOVE
T/B	TO BELOW
F/A	FROM ABOVE
F/B	FROM BELOW
H/L	HIGH LEVEL
M/L	MIDDLE LEVEL
L/L	LOW LEVEL
W/	WITH
FFL	FINISHED FLOOR LEVEL
EX.	EXISTING
FE	5KG CO2 FIRE EXTINGUISHER
DP	DESIGN POINT



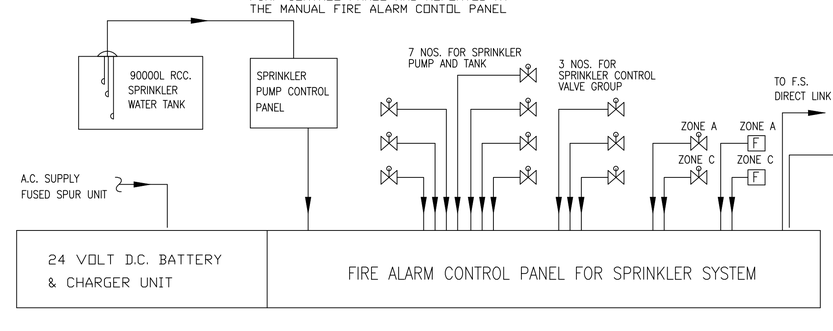
'P1' PRESSURE SWITCH ASSEMBLY



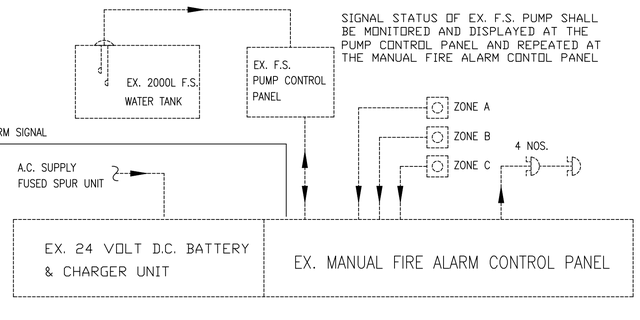
'P2' PRESSURE SWITCH ASSEMBLY



TYPICAL ARRANGEMENT OF HOSE REEL

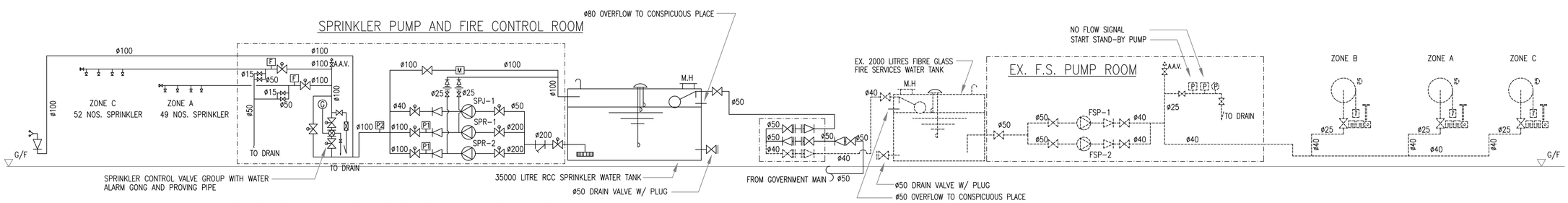


SCHEMATIC DIAGRAM FOR NEW FIRE ALARM CONTROL SYSTEM



SCHEMATIC DIAGRAM FOR EXISTING MANUAL FIRE ALARM SYSTEM

SPRINKLER PUMP AND FIRE CONTROL ROOM



SCHEMATIC PIPING DIAGRAM FOR NEW SPRINKLER SYSTEM

SCHEMATIC PIPING DIAGRAM FOR EXISTING HOSE REEL SYSTEM

F.S. CONSULTANT :	PROJECT : LAYOUT PLAN FOR LOTS NOS. 1669 S.A. ss.1 RP(PART), 1670 S.A. ss.1 RP, 1671 S.A ss.1, 1673 S.A., 1675 S.B. ss.1 RP(PART) IN D.D.100 AND ADJOINING GOVERNMENT LAND, KWU TUNG SOUTH, SHEUNG SHUI, N.T.	TITLE : F.S. NOTES, BLOCK PLAN, LEGEND, ABBREVIATION, DRAWING LIST, PIPE MATERIAL SCHEDULE, PIPE COLOUR CODE, PUMP SCHEDULE, SCHEMATIC DIAGRAM FOR NEW SPRINKLER AND EXISTING HOSE REEL SYSTEM AND FIRE ALARM SYSTEM	JOB NO.: 0804A SCALE : NOT TO SCALE DATE : APRIL 2026 DRAWING NO. : FS-1 REVISION : D

REV.	DESCRIPTION	BY	DATE
D	AS-FITTED DRAWING	MC	30.03.2025
C	GENERAL REVISION	MC	30.12.2025
B	REDUCED SPRINKLER TANK CAPACITY	MC	30.03.2026
A	REDUCED SPRINKLER TANK CAPACITY	MC	07.12.2025

USABLE GROSS FLOOR AREA

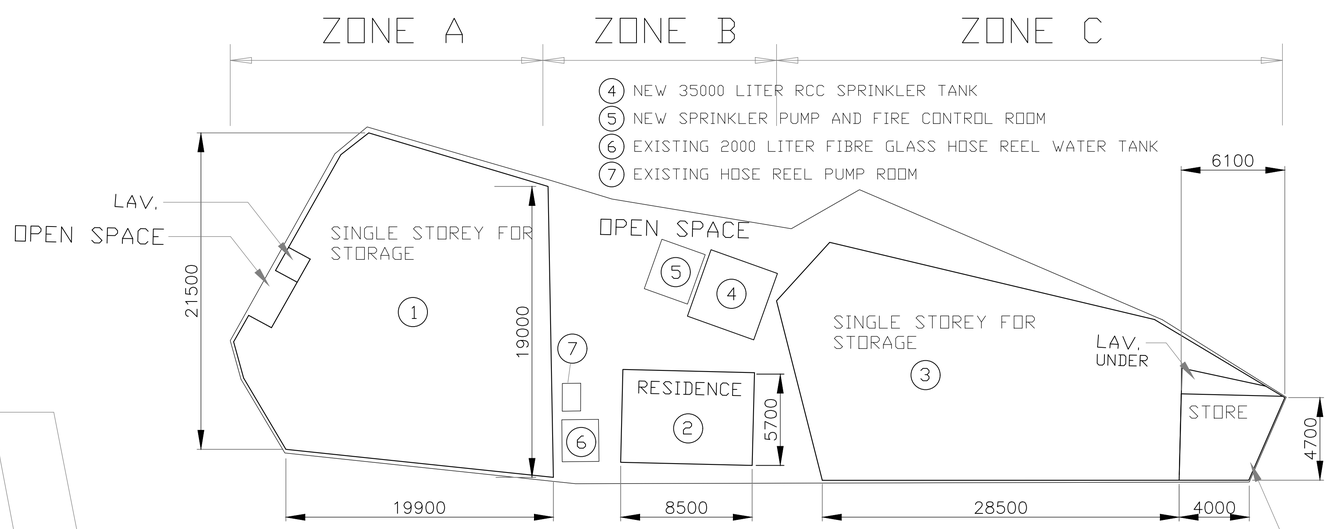
ZONE NO.	STRUCTURE NO.	USABLE GROSS FLOOR AREA
A	1	341 M^2
B	2	39 M^2
C	3	380 M^2

B. D. REFERENCE :

F. S. D. REFERENCE :

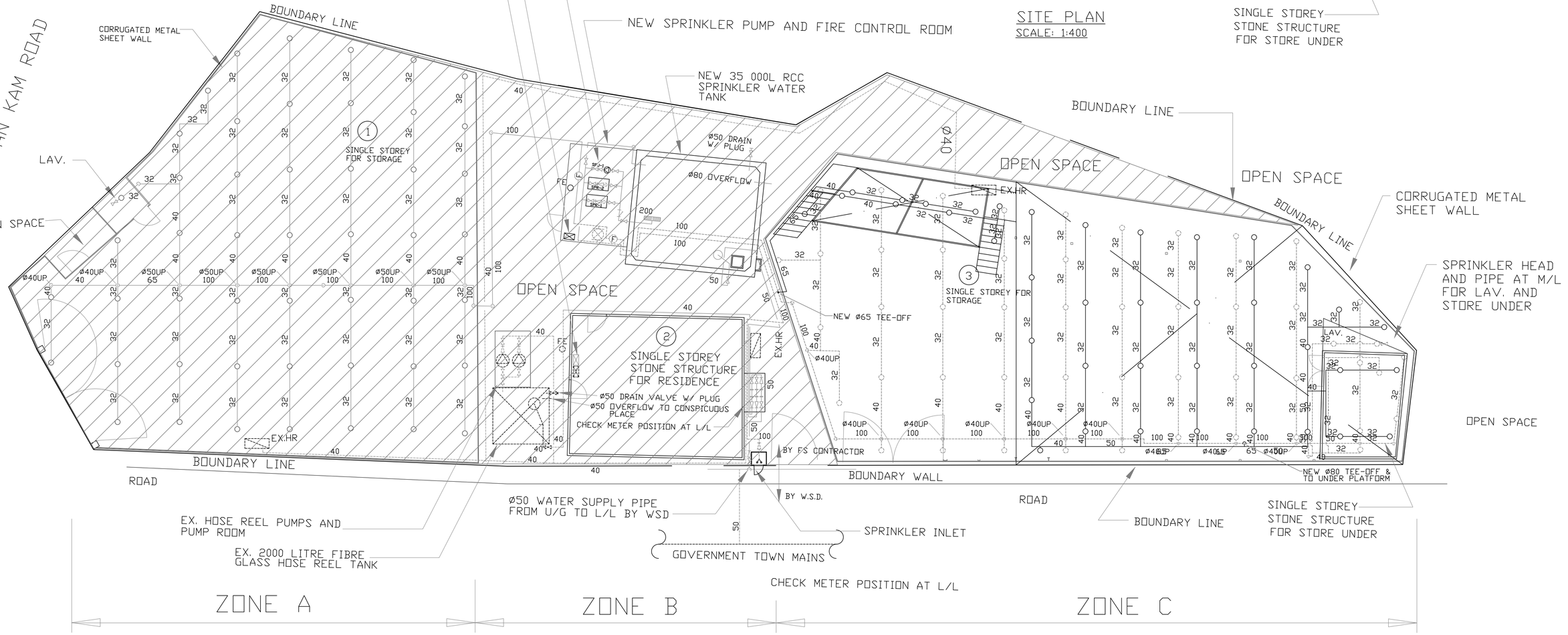
NOTES :

1. ALL DIMENTSIONS ARE IN MILLIMETER.



SITE PLAN

SCALE: 1:400



GROUND FLOOR PLAN

SCALE: 1:100

F.S. CONSULTANT :

PROJECT :
LAYOUT PLAN FOR LOTS NOS. 1669 S.A. ss.1 RP(PART), 1670 S.A. ss.1 RP, 1671 S.A ss.1, 1673 S.A., 1675 S.B. ss.1 RP(PART) IN D.D.100 AND ADJOINING GOVERNMENT LAND, KWU TUNG SOUTH, SHEUNG SHUI, N.T.

TITLE :
FIRE SERVICES LAYOUT PLAN AND USABLE GROSS FLOOR AREA

REV.	DESCRIPTION	BY	DATE
D	AS-FITTED DRAWING	MC	30.03.2025
C	LAYOUT AND DESIGN POINT REVISED	MC	30.12.2025
B	RELOCATION OF SPRINKLER TANK, TOWN MAIN CONNECTION AND CHECK METER POSITION	MC	30.03.2026
A	REDUCED SPRINKLER TANK CAPACITY	MC	07.12.2025

JOB NO.: 0804A
SCALE : 1 : 100 @ A1
DATE : APRIL 2026
DRAWING NO. : FS-2
REVISION : D

BLOCK PLAN SCALE 1:1000

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
EX.	EXISTING
FE	5KG CO2 FIRE EXTINGUISHER
DP	DESIGN POINT

LEGEND

SYMBOL	DESCRIPTION
H.R.	HOSE REEL W/30 M. LENGTH HOSE, STRIKER, LOCKABLE GLASS FRONT BOX, FIRE ALARM BELL & BREAK GLASS UNIT
	FIRE ALARM BELL (WEATHER PROOF FOR OUTDOOR)
	BREAK GLASS UNIT (WEATHER PROOF FOR OUTDOOR)
	GATE VALVE
	NON RETURN VALVE
	Y-STRAINER
	BALL FLOAT VALVE
P	PRESSURE SWITCH
F	FLOW SWITCH
Ⓕ	FLOW SWITCH ASSEMBLY
Ⓟ	PRESSURE GAUGE
A.A.V.	AUTOMATIC AIR VENT WITH COCK
	FIRE PUMP
	LEVEL SWITCH
	MONITORED GATE VALVE
m	DIRECT READING FLOW METER
	68°C SPRINKLER HEAD
	VORTEX INHIBITOR
EXIT	EXIT SIGN BOX EQUIPPED WITH CHARGER AND BATTERY BACK-UP
	F.S. / SPRINKLER PIPE
	EXISTING PIPE/EQUIPMENT

LEGEND

QUANTITY	SYMBOL	DESCRIPTION
		AREA NOT COVER IN THIS SUBMISSION
8 NOS.	⊗	NEW 68°C SPRINKLER IN OFFICE/STORE
32 NOS.	○	NEW 68°C SPRINKLER UNDER PLATFORM/STAIRCASE
	◌	EXISTING 68°C SPRINKLER

SCHEDULE OF PIPE MATERIALS

LOCATION	USAGE	MATERIAL STANDARD
ABOVEGROUND	PIPE WORK UP TO & & INCLUDING 150MM DIAMETER	GALVANIZED MILD STEEL PIPES TO BS1387/BSEN 10255 MEDIUM GRADE FOR SCREWING TO BS21 PIPE THREADS

PIPE COLOUR CODE

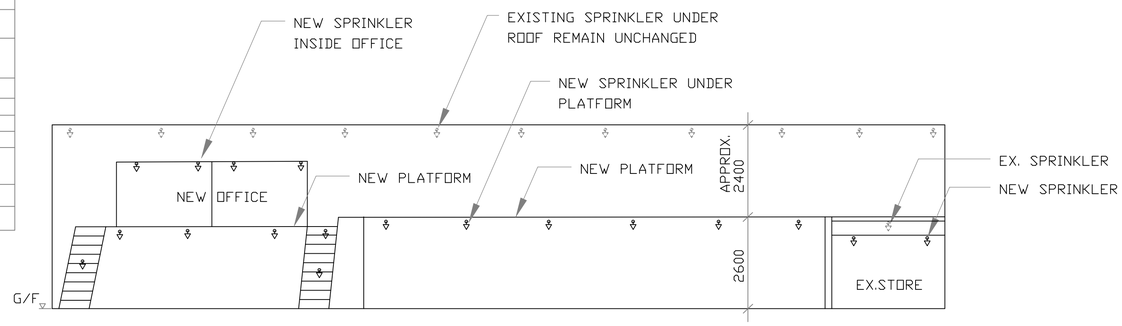
PIPE SIZES	COLOUR
ø32mm	RED
ø40mm	PURPLE
ø50mm	YELLOW
ø65mm	BLUE
ø80mm	DEEP GREEN

B. D. REFERENCE :

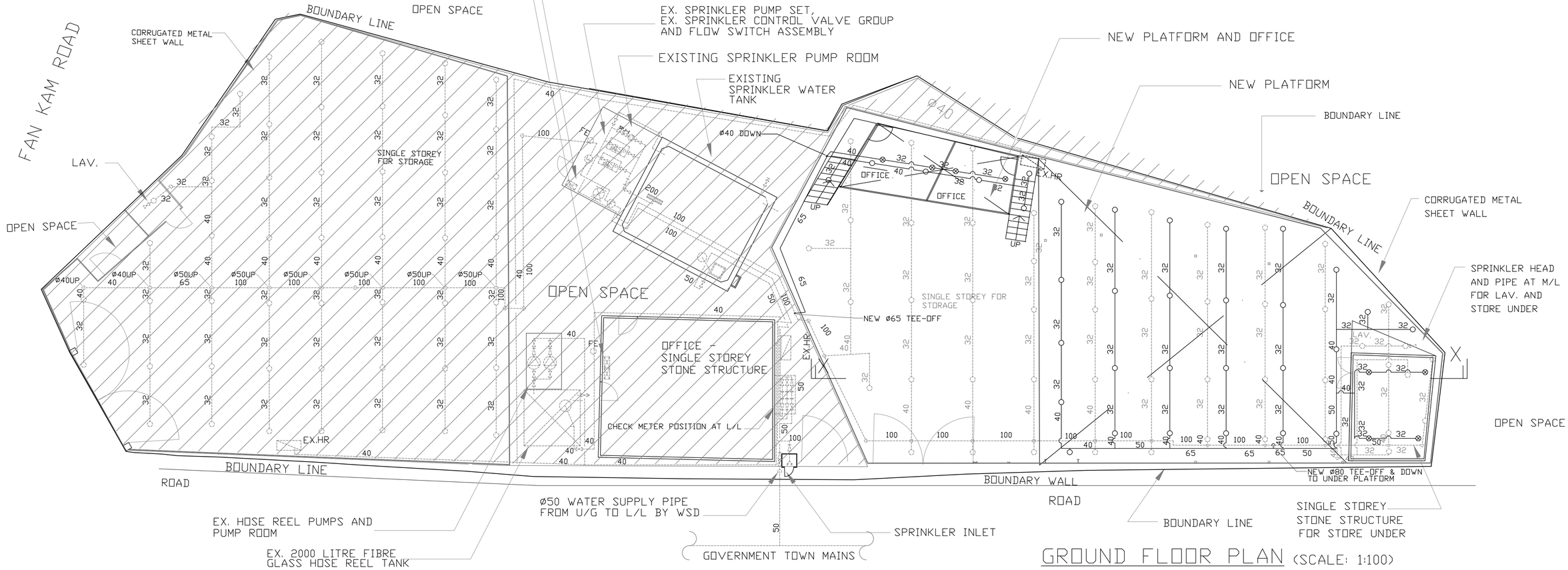
F. S. D. REFERENCE :

NOTES :

1. ALL DIMENTSIONS ARE IN MILLIMETER.



SECTIONAL VIEW X-X (SCALE: 1:100)



GROUND FLOOR PLAN (SCALE: 1:100)

F.S. CONTRACTOR :

PROJECT :
LAYOUT PLAN FOR LOTS NOS. 1669 S.A. ss.1 RP(PART), 1670 S.A. ss.1 RP, 1671 S.A ss.1, 1673 S.A., 1675 S.B. ss.1 RP(PART) IN D.D.100 AND ADJOINING GOVERNMENT LAND, KWU TUNG SOUTH, SHEUNG SHUI, N.T.

TITLE :
SPRINKLER AND FH/HR SYSTEM LAYOUT PLAN, SECTIONAL VIEW, BLOCK PLAN, LEGEND, ABBREVIATION, SCHEDULE OF PIPE MATERIAL, PIPE COLOUR CODE

REV.	DESCRIPTION	BY	DATE
A	REVISE BUILDING LAYOUT	MC	05.2026
0	FSI/314A SUBMISSION	MC	30.12.2025

JOB NO.: 0804A
SCALE : 1 : 100 @ A1
DATE : AUGUST 2021
DRAWING NO. : FS-1
REVISION : A