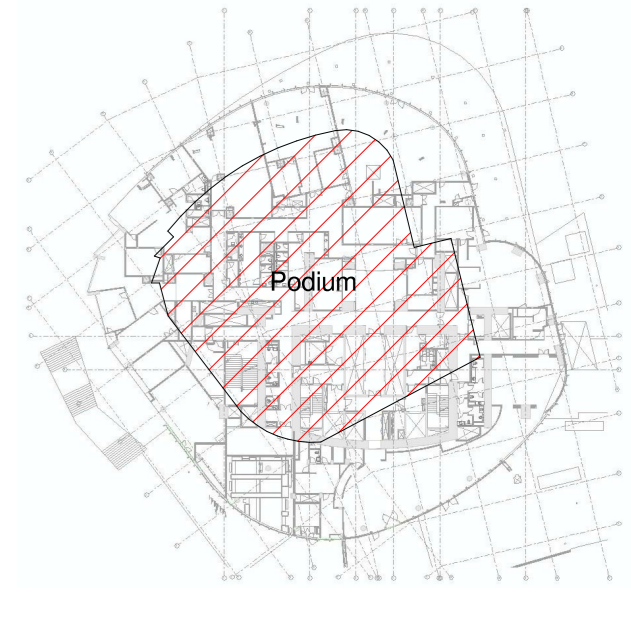


IRUMAM Sample Drawings.

KEYPLAN

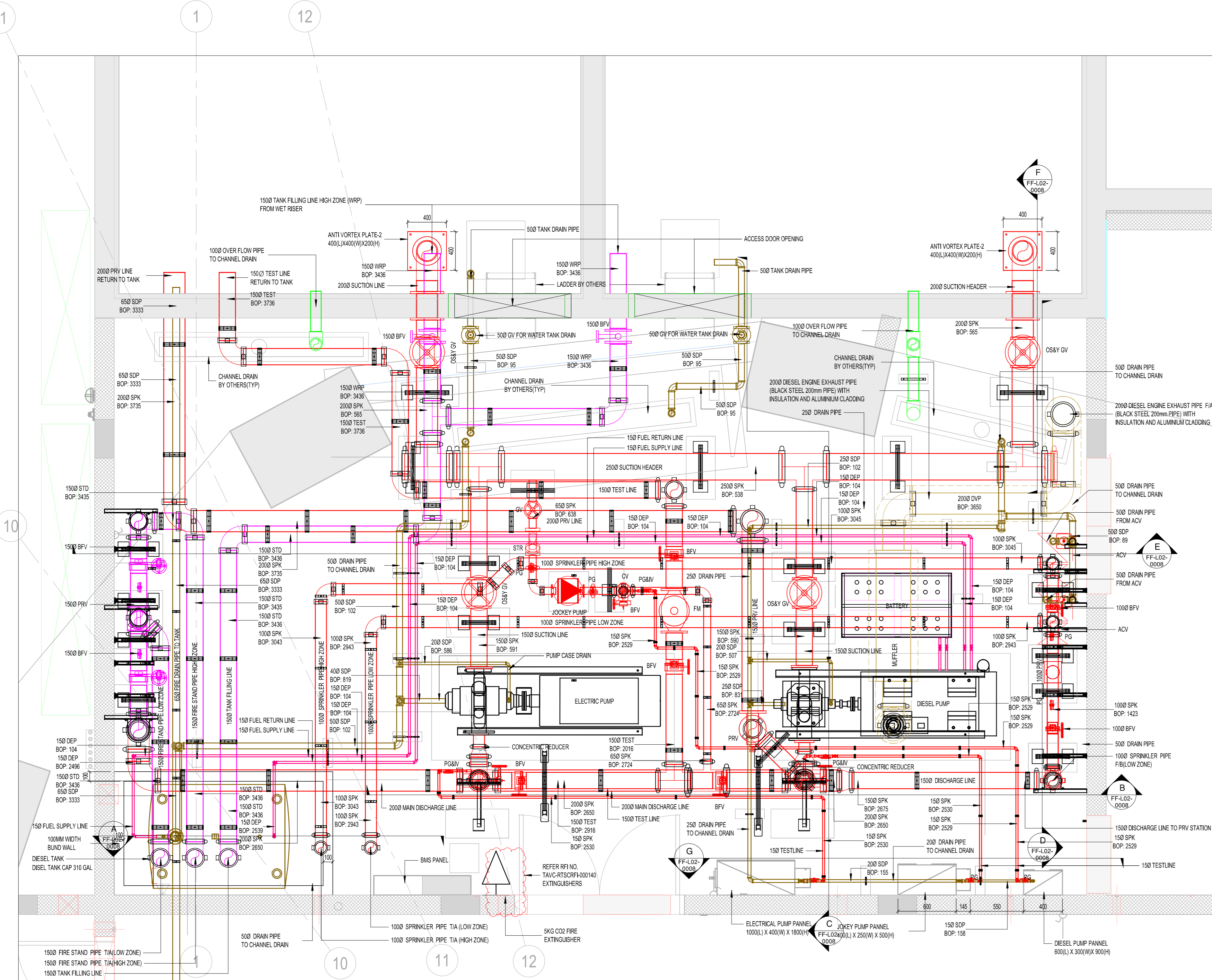


GENERAL NOTES

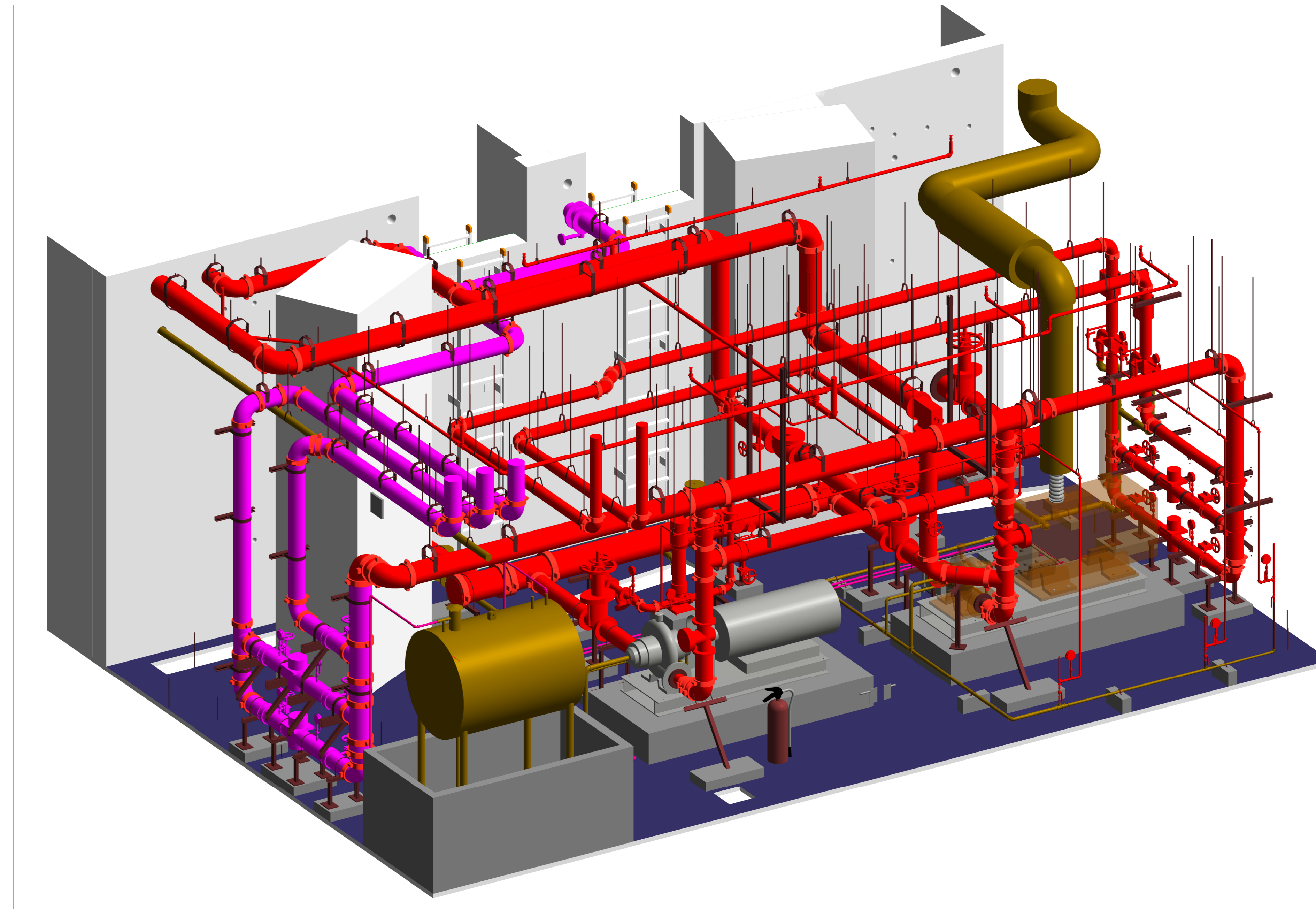
COLOUR	ABBREVIATION
Red	STAND PIPE
Purple	SPR & SUCTON/ DISCHARGE LINE
Green	DRAIN PIPE
Blue	FUEL SUPPLY
Yellow	FUEL RETURN
Cyan	PRESSURE SENSING LINE

SLNO	DRAWING NUMBER	DRAWING TITLE	REV
3		PODIUM LEVEL 02 FIRE PROTECTION LAYOUT	01
2		PODIUM LEVEL 02 DRAINAGE LAYOUT	01
1		PODIUM LEVEL 02 OVERALL FIRE PROTECTION LAYOUT	01

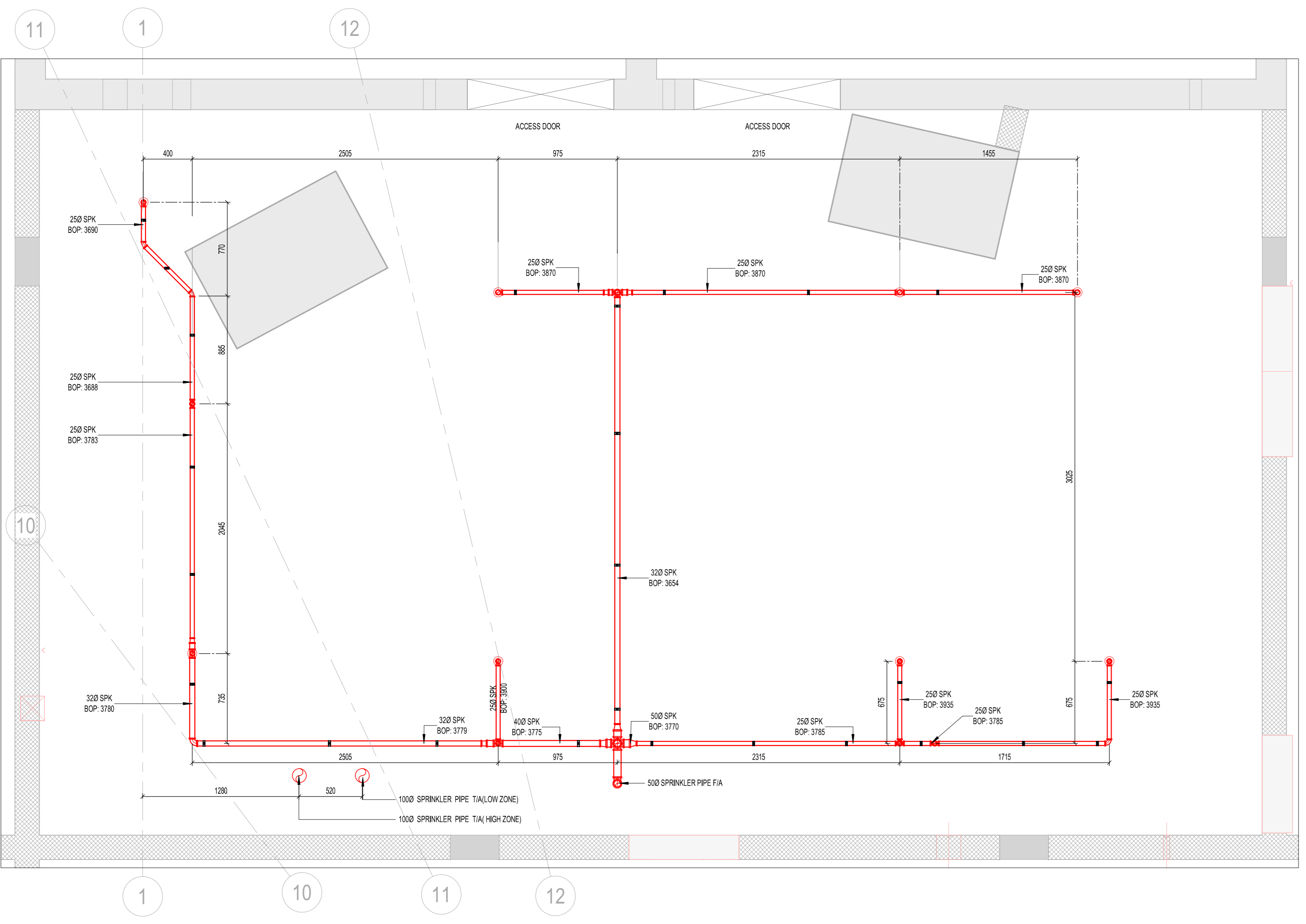
SLNO	DRAWING NUMBER	DRAWING TITLE	REV
3		PODIUM LEVEL 02 PLAN	01
2		PODIUM LEVEL 02 FIRE PROTECTION LAYOUT	01
1		PODIUM LEVEL 02 OVERALL FIRE PROTECTION LAYOUT	01



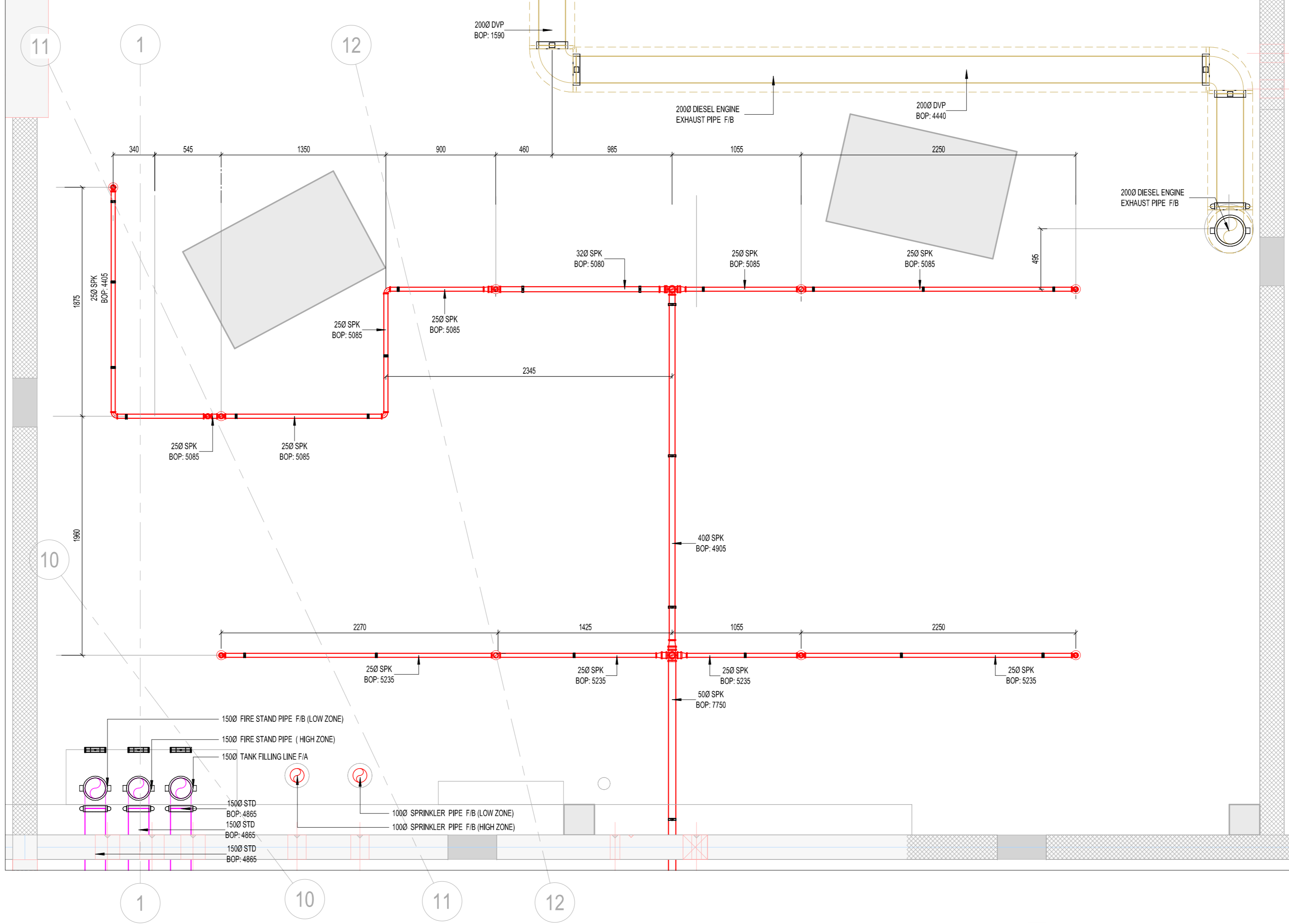
1 PODIUM LEVEL 02 FIRE PUMPROOM LAYOUT
1:25



2 FF L02 PUMP ROOM_3D VIEW
1:25



3 PODIUM LEVEL 02 FIRE PUMPROOM LAYOUT SPRINKLER LAYOUT
1:25



4 PODIUM LEVEL 02 FIRE PUMPROOM LAYOUT SPRINKLER LAYOUT ABOVE ATTICS SLAB
1:25

LEGEND

- UPRIGHT SPRINKLER HEAD 1/2" ORIFICE, 1/2" NPT THREADED, 79°C STANDARD RESPONSE.
- ⊗ UPRIGHT SPRINKLER HEAD 1/2" ORIFICE, 1/2" NPT THREADED, 68°C QUICK RESPONSE.
- ⊕ PENDENT SPRINKLER HEAD, 1/2" ORIFICE, 1/2" NPT THREADED, 79°C STANDARD RESPONSE.
- ⊙ PENDENT SPRINKLER HEAD, 1/2" ORIFICE, 1/2" NPT THREADED, 68°C STANDARD RESPONSE.
- CONCEALED PENDENT SPRINKLER HEAD, 1/2" ORIFICE, 1/2" NPT THREADED, 68°C QUICK RESPONSE (NON AIR CONDITIONAL AREAS).
- ⦿ CONCEALED PENDENT SPRINKLER HEAD, 1/2" ORIFICE, 1/2" NPT THREADED, 79°C QUICK RESPONSE (NON AIR CONDITIONAL AREAS).
- ⊛ UPRIGHT SPRINKLER HEAD, 141°C STANDARD RESPONSE.
- ⊕ CONCEALED PENDENT SPRINKLER HEAD, 141°C STANDARD RESPONSE.
- ⊕ SIDE WALL SPRINKLER COVERAGE, 79°C STANDARD RESPONSE (NON AIR CONDITIONAL AREAS) (K=5.6)
- ⊕ SIDE WALL SPRINKLER EXTENDED COVERAGE, 79°C STANDARD RESPONSE (NON AIR CONDITIONAL AREAS) (K=5.6)
- ⚠ 5 KG PORTABLE FIRE EXTINGUISHER, CO2.
- ⚠ 6 KG DRY CHEMICAL PORTABLE FIRE EXTINGUISHER CLASS ABC TYPE.
- ⚠ 9.0 KG DRY CHEMICAL PORTABLE FIRE EXTINGUISHER CLASS BC TYPE.
- ⚠ 2 KG DCP FIRE EXTINGUISHER (KITCHEN)
- 🧻 FIRE BLANKET (KITCHEN)
- ⊕ ZONE CONTROL VALVE CONSISTING OF BUTTERFLY VALVE, CHECK VALVE, WATER FLOW SWITCH, PRESSURE GAUGE, TEST AND DRAIN VALVE.
- 🔧 FIRE HOSE CABINET (PRESSURE) CONSISTING OF:
 - 1 NO. 0.25MM x 30M FIRE HOSE WITH NOZZLE
 - 1 NO. 0.25MM LOCK SHIELD VALVE
 - 1 NO. 0.25MM PRESSURE REDUCING VALVE
 - 1 NO. PRESSURE GAUGE
 - 1 NO. 0.25MM LANDING VALVE WITH BUILT IN PRV.
 - 1 NO. 0.25MM HOSE NOZZLE AND COUPLING
 - 1 NO. 0.25MM SYNTHETIC FIRE HOSE
 - 1 NO. 5 KG CO2 FIRE EXTINGUISHER
 - 1 NO. 6 KG DRY POWDER FIRE EXTINGUISHER.
- 🔧 FIRE HOSE CABINET SURFACE CONSISTING OF:
 - 1 NO. 0.25MM x 30M FIRE HOSE WITH NOZZLE
 - 1 NO. 0.25MM LOCK SHIELD VALVE
 - 1 NO. 0.25MM PRESSURE REDUCING VALVE
 - 1 NO. PRESSURE GAUGE
 - 1 NO. 0.25MM LANDING VALVE WITH BUILT IN PRV.
 - 1 NO. 0.25MM HOSE NOZZLE AND COUPLING
 - 1 NO. 0.25MM SYNTHETIC FIRE HOSE
 - 1 NO. 5 KG CO2 FIRE EXTINGUISHER
 - 1 NO. 6 KG DRY POWDER FIRE EXTINGUISHER.
- ⊕ ALARM CHECK VALVE ASSSEMBLY
- ⊕ 4 WAY BREACHING INLET CONNECTION
- ⊕ 2 WAY BREACHING INLET
- ⊕ DRAIN VALVE
- ⊕ BUTTERFLY VALVE WITH SUPERVISORY SWITCH, (TO BE INTERFACED WITH FIRE ALARM SYSTEM)
- ⊕ CHECK VALVE
- ⊕ LANDING VALVE
- ⊕ GATE VALVE
- ⊕ FLUSHING CONNECTION
- T/A TO ABOVE ARV AIR RELEASE VALVE
- T/B TO BELOW BFV BUTTERFLY VALVE
- F/A FROM ABOVE
- F/B FROM BELOW

LINES & ABBREVIATION

- SPRINKLER LINE (SRP)
- WET RISER LINE (WRP)
- FIRE HYDRANT LINE (HYD)
- TANK FILLING LINE (TFP)
- SPRINKLER DRAIN LINE (SDP)
- SPRINKLER LINE FOR GARBAGE CHUTE

No.	Date	ISSUED FOR APPROVAL	Revision Details
0	23/01/2020	ISSUED FOR APPROVAL	

CLIENT:

PROJECT:

PLOT NO: LOCATION: Downtown Dubai

LEAD CONSULTANT:

MAIN CONTRACTOR:

SUB CONTRACTOR:

FIRE FIGHTING CONTRACTOR:

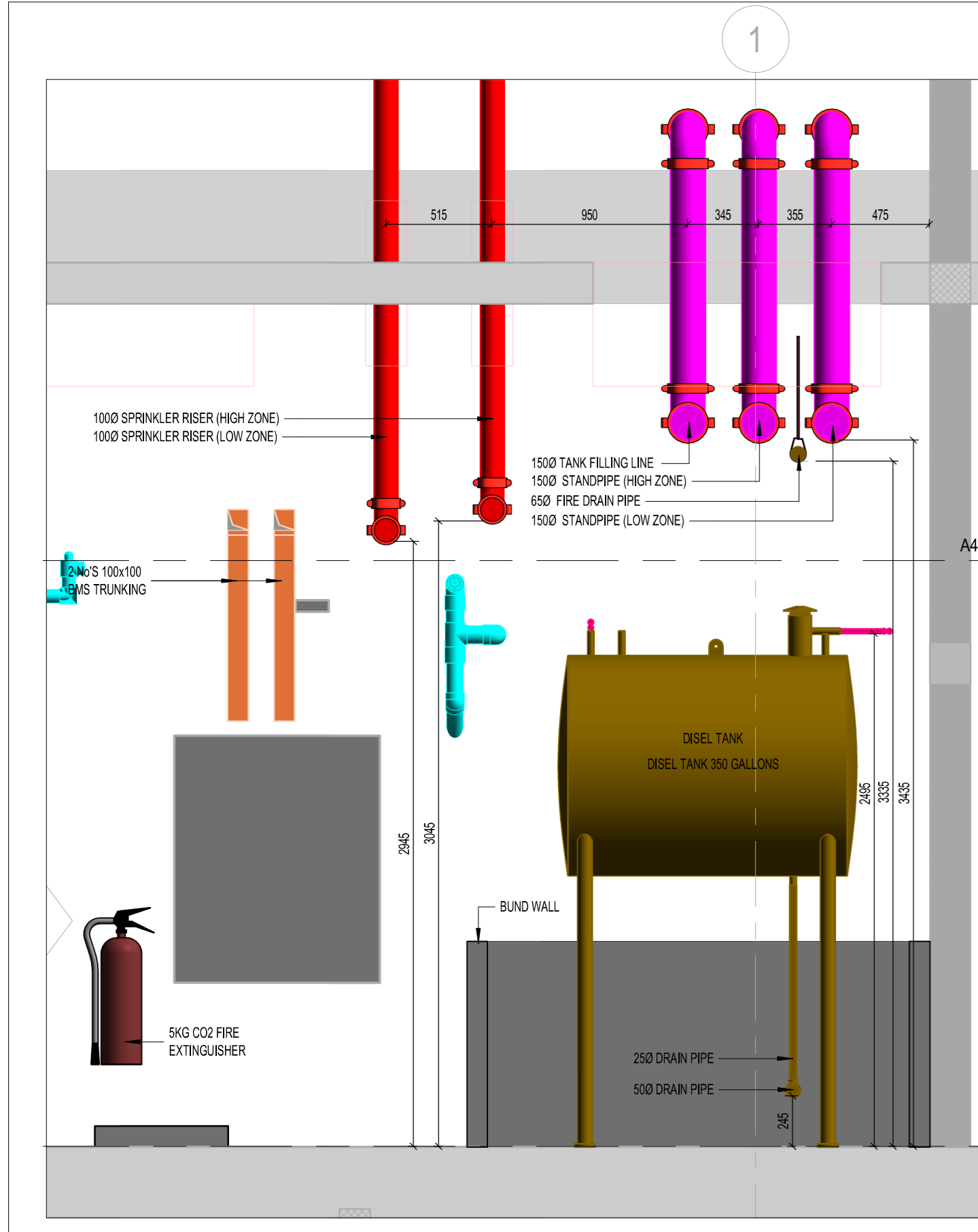
DRAWING TITLE

LEVEL-02 FIRE PROTECTION PUMP ROOM LAYOUT PART-1

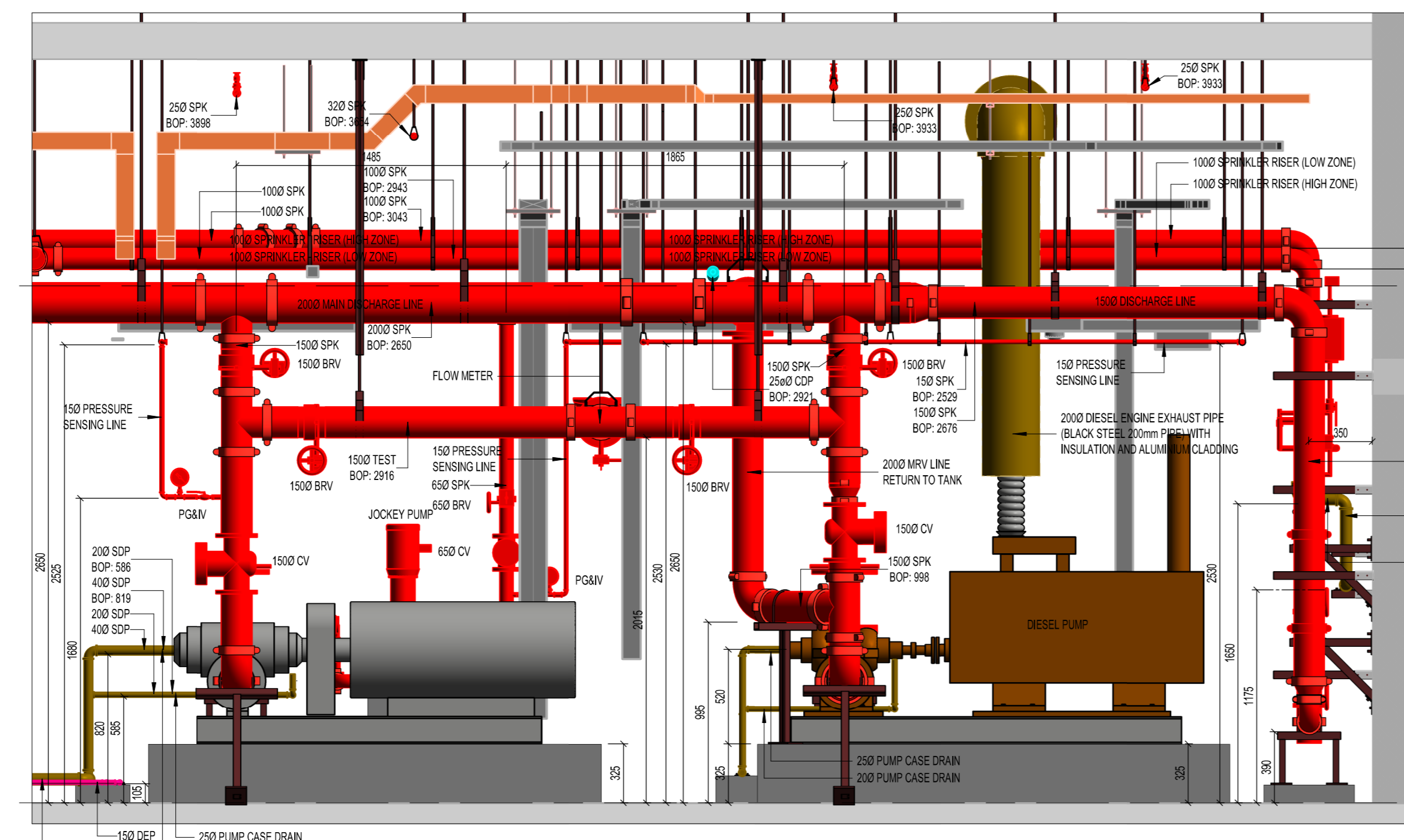
Drawn by	Prepared by	Checked by	Approved by

File Ref.	Date	Scale As Indicated	Revision 0

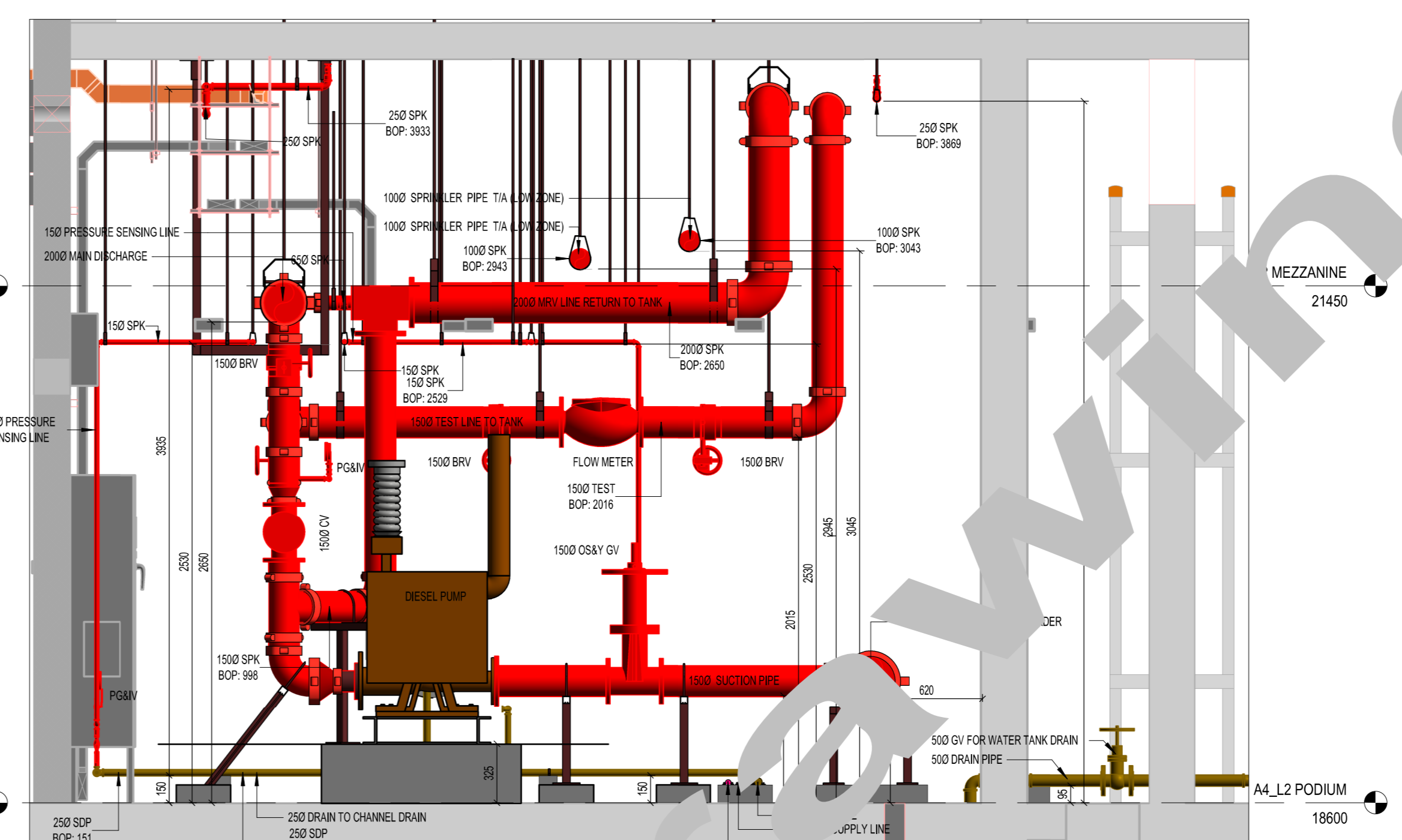
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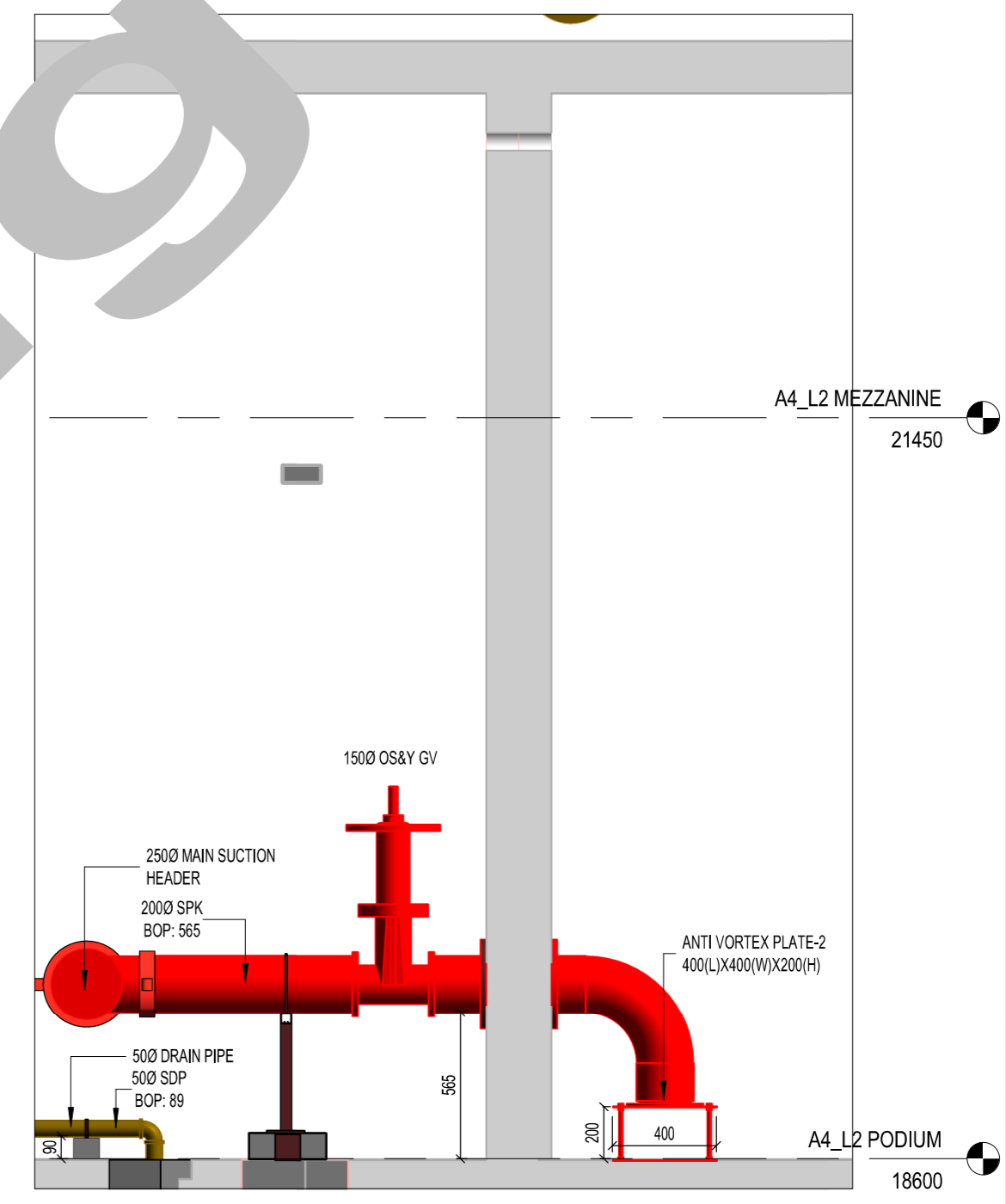
Section - A
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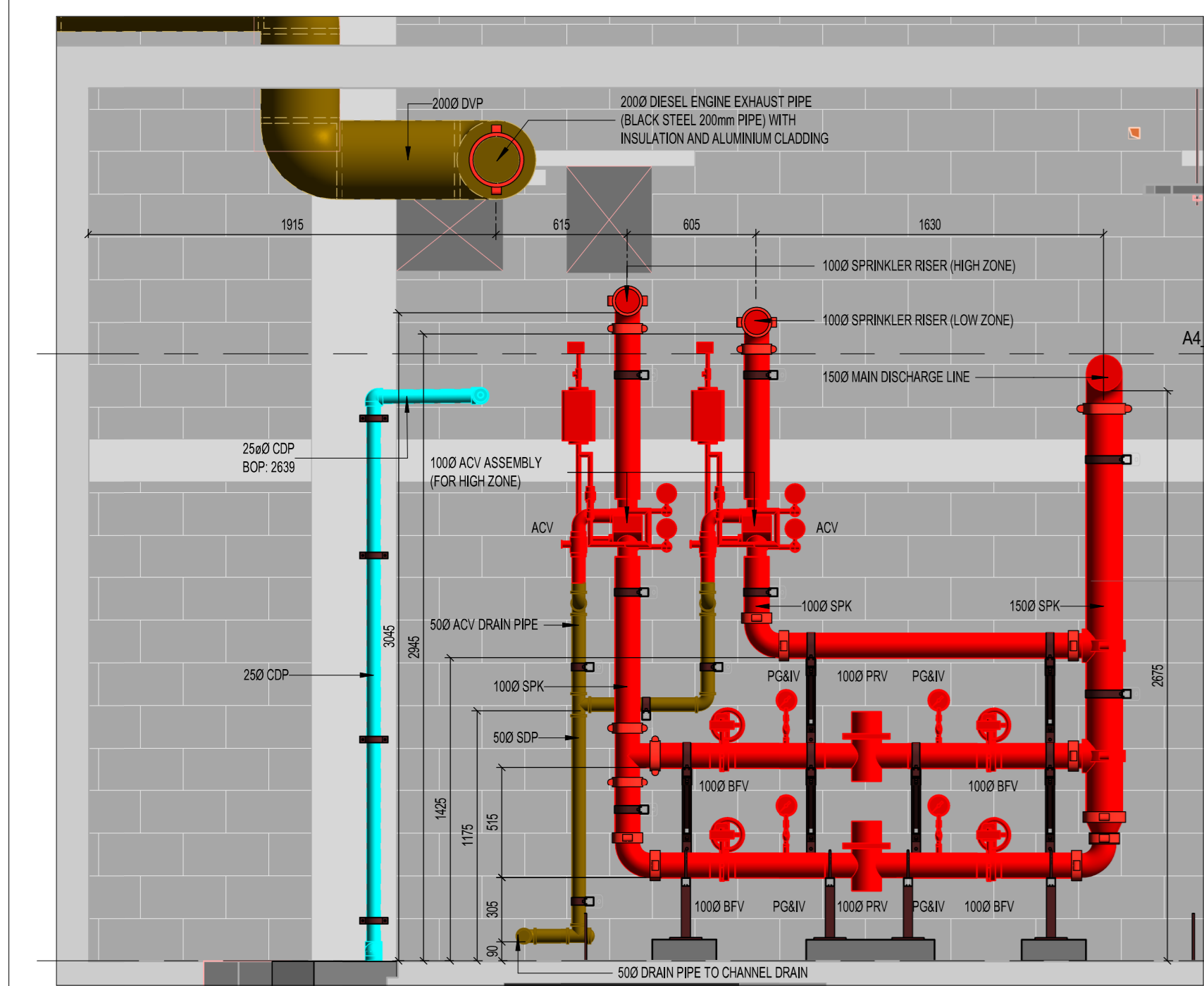
Section - B
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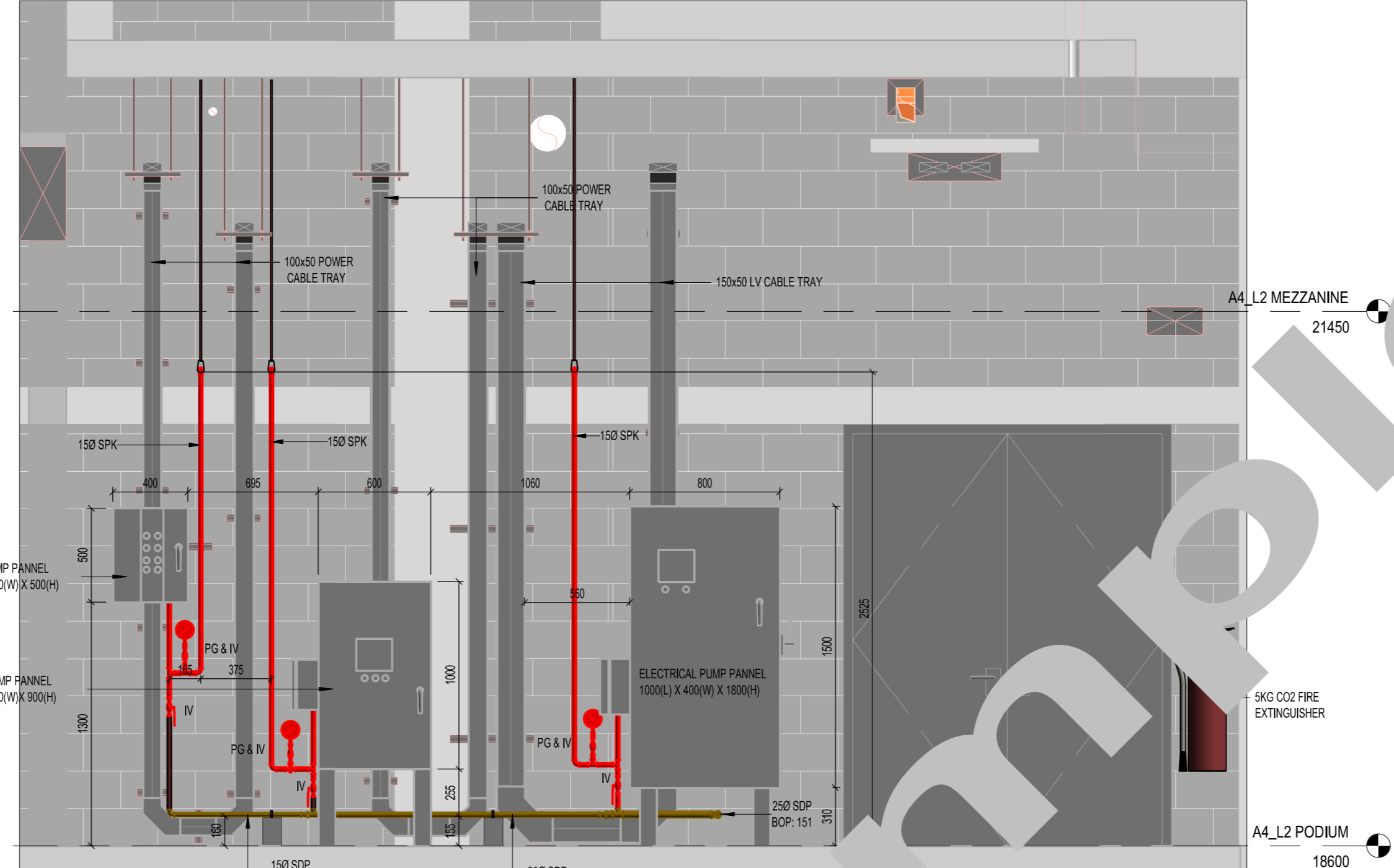
Section - C
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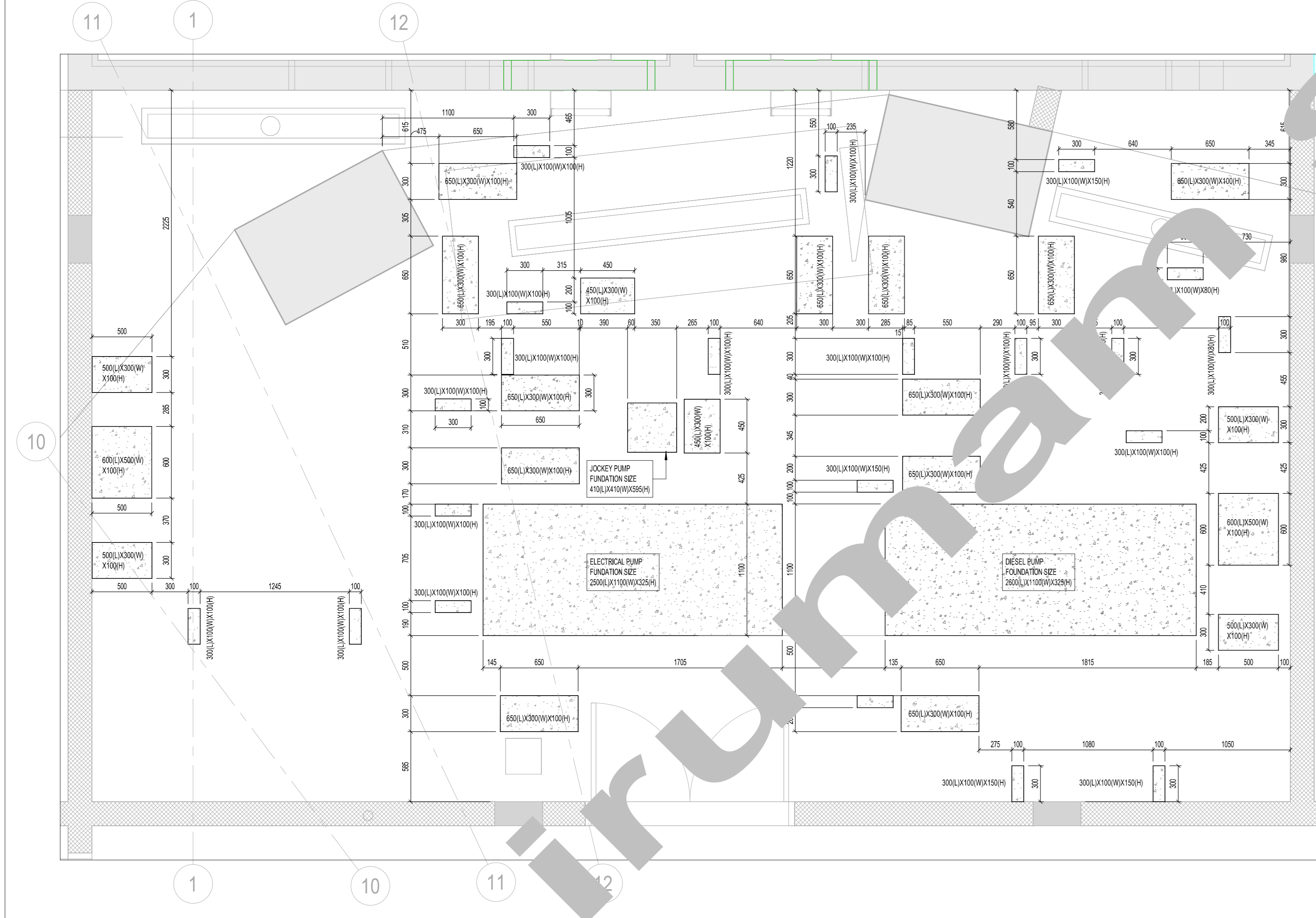
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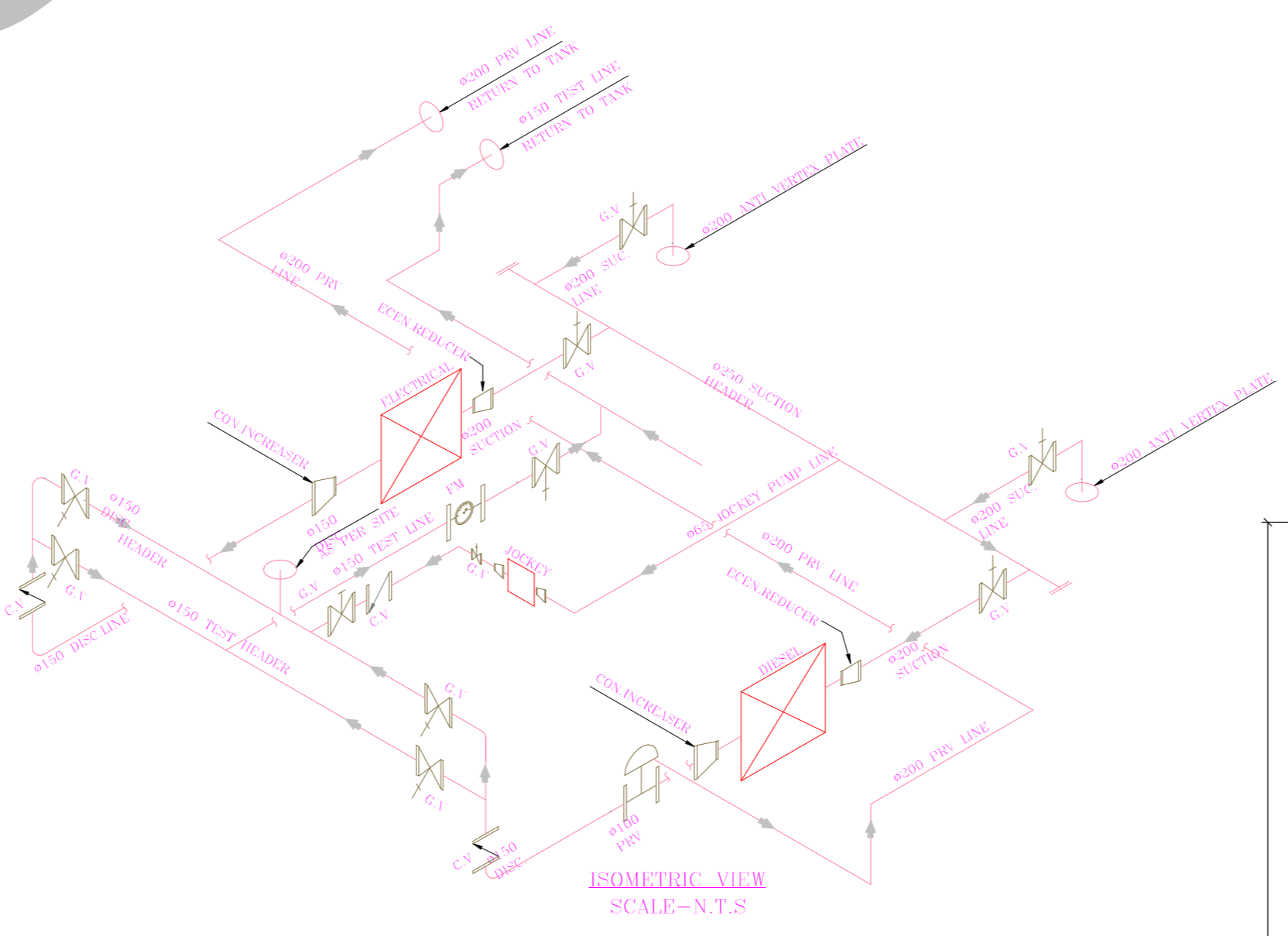
Section - D
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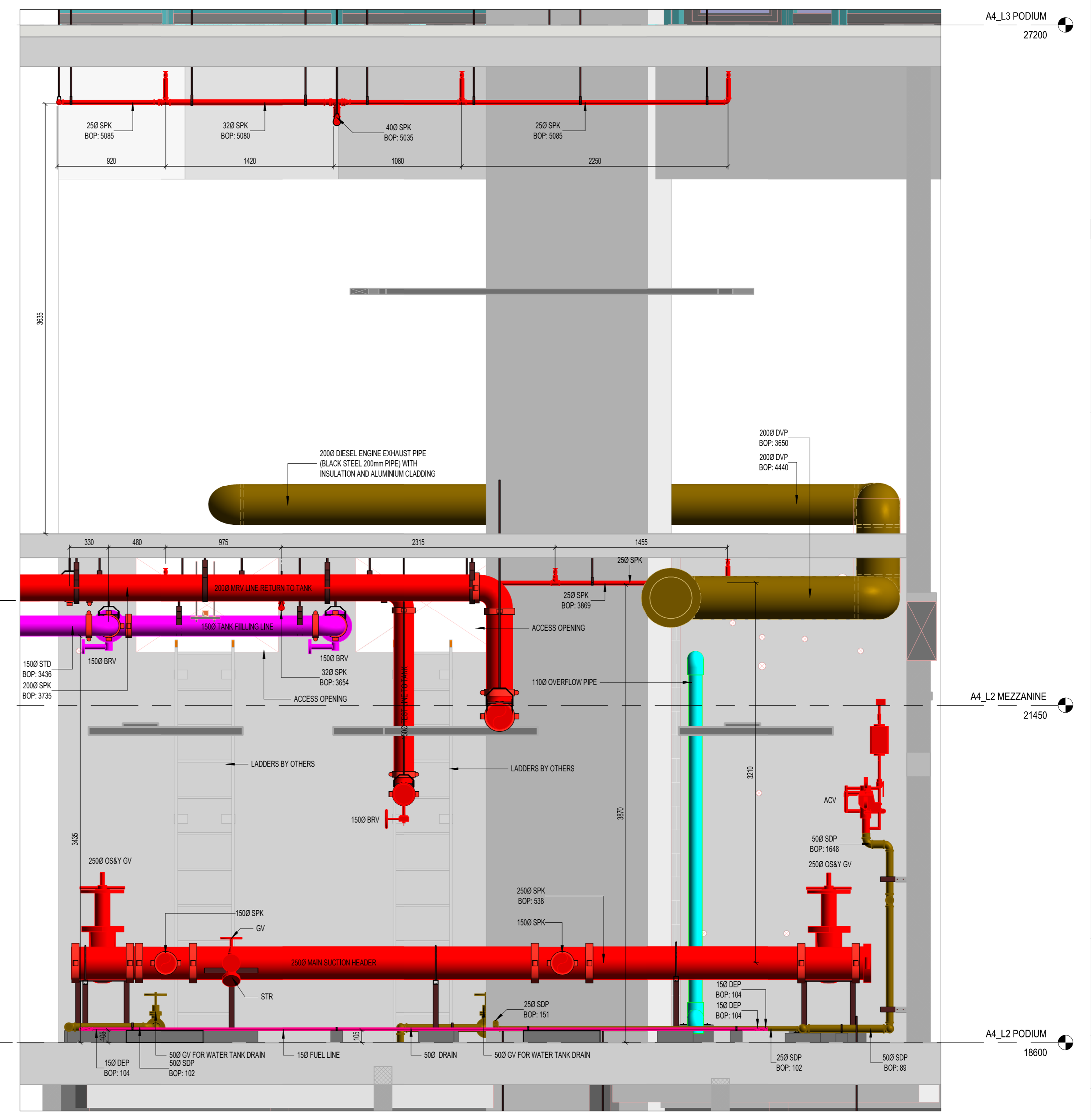
Section - G
1: 25



PODIUM LEVEL 02 FIRE PUMPROOM PEDESTAL LAYOUT
1: 25



ISOMETRIC VIEW
SCALE: N.T.S.



Section - E
1: 25

FIRE WATER TANK SCHEDULE

	TANK-01 FWTAAL0201	TANK-02 FWTAAL0202
AREA	34.80 Sqm	33.38 Sqm
EFFECTIVE WATER DEPTH	3.30 M	3.30 M
CAPACITY	114840 LTR (29981.4 GALLON)	114550 LTR (29981.4 GALLON)
TOTAL CAPACITY	229390 LTR (59962.8 GALLON)	

FIRE WATER DEMAND

SYSTEM	FLOW RATE AND DURATION	FIRE WATER RESERVE
SPRINKLER AND STAND PIPE	750 GPM @ 60MIN	45,000 GALLON

FIRE PUMP SCHEDULE (SPRINKLER & STAND PIPE SYSTEM)

PUMP NO.	DESCRIPTION	FLOW (L/MN)	PRESSURE (BAR)	POWER SOURCE	REMARKS	CONNECTION SIZE	
						INLET/SUCTION	OUTLET/DISCHARGE
EFP	ELECTRIC FIRE PUMP (DUTY PUMP) (PANEL: EFP-EPF-01)	1000 GPM	15 BAR	ELECTRIC 415V/3PHASE/50HZ	HORIZONTAL SPLIT CASE, ELECTRIC MOTOR DRIVEN, UL LISTED/ FM APPROVED, DUTY PUMP.	1500	1000
DPP	DIESEL ENGINE DRIVEN FIRE PUMP (PANEL: DFP-EPF-02)	1000 GPM	15 BAR	DIESEL ENGINE	HORIZONTAL SPLIT CASE, DIESEL ENGINE DRIVEN, UL LISTED/ FM APPROVED, STANDBY PUMP.	1500	1000
JMP	JOCKEY PUMP (PANEL: JFP-EPF-03)	10 GPM	15 BAR	ELECTRIC 415V/3PHASE/50HZ	VERTICAL MULTISTAGE, ELECTRIC MOTOR DRIVEN, JOCKEY PUMP.	320	320

KEYPLAN

GENERAL NOTES

NO.	DESCRIPTION	REV.
3	PODIUM WATER PUMP & MAIN BUILDERS WORK LAYOUT	01
2	PODIUM LEVEL 02 DRAINAGE LAYOUT	01
1	PODIUM LEVEL 02 OVERALL FIRE PROTECTION LAYOUT	00

LEGEND

COLOR	ABBREVIATION
Red	STAND PIPE
Yellow	SPR & SUCTION/ DISCHARGE LINE
Blue	DRAIN PIPE
Green	FUEL SUPPLY
Purple	FUEL RETURN
Orange	PRESSURE SENSING LINE

CLIENT: ISSUED FOR APPROVAL

PROJECT: Downtown Dubai

DRAWING TITLE: LEVEL-02 FIRE PROTECTION PUMP ROOM LAYOUT PART-2

Drawn by: Prepared by: Checked by: Approved by:

File Ref: Date: Scale: Revision 0

SHEET NO: