

NOTES:

1. PIPING DESIGN/QUALITY CLASSIFICATION SHALL BE 7C EXCEPT OTHERWISE SPECIFIED.
2. PIPING MATERIALS FOR VENT AND DRAIN SHALL BE CS.
3. ALL EQUIPMENT AND PIPING IS NON SAFETY RELATED.

REFERENCE DOCUMENTS:

REF. NO.	DESCRIPTION	MPL. NO.
1.	PIPING AND INSTRUMENT SYMBOLS DIAGRAM	A10-3030
2.	HVAC NORMAL COOLING WATER SYS PAD	P24-1010
3.	RE-CIRCULATION FLOW CONTROL SYS PAD	C81-1010

Figure 9.4-5 Reactor Internal Pump ASD HVAC System

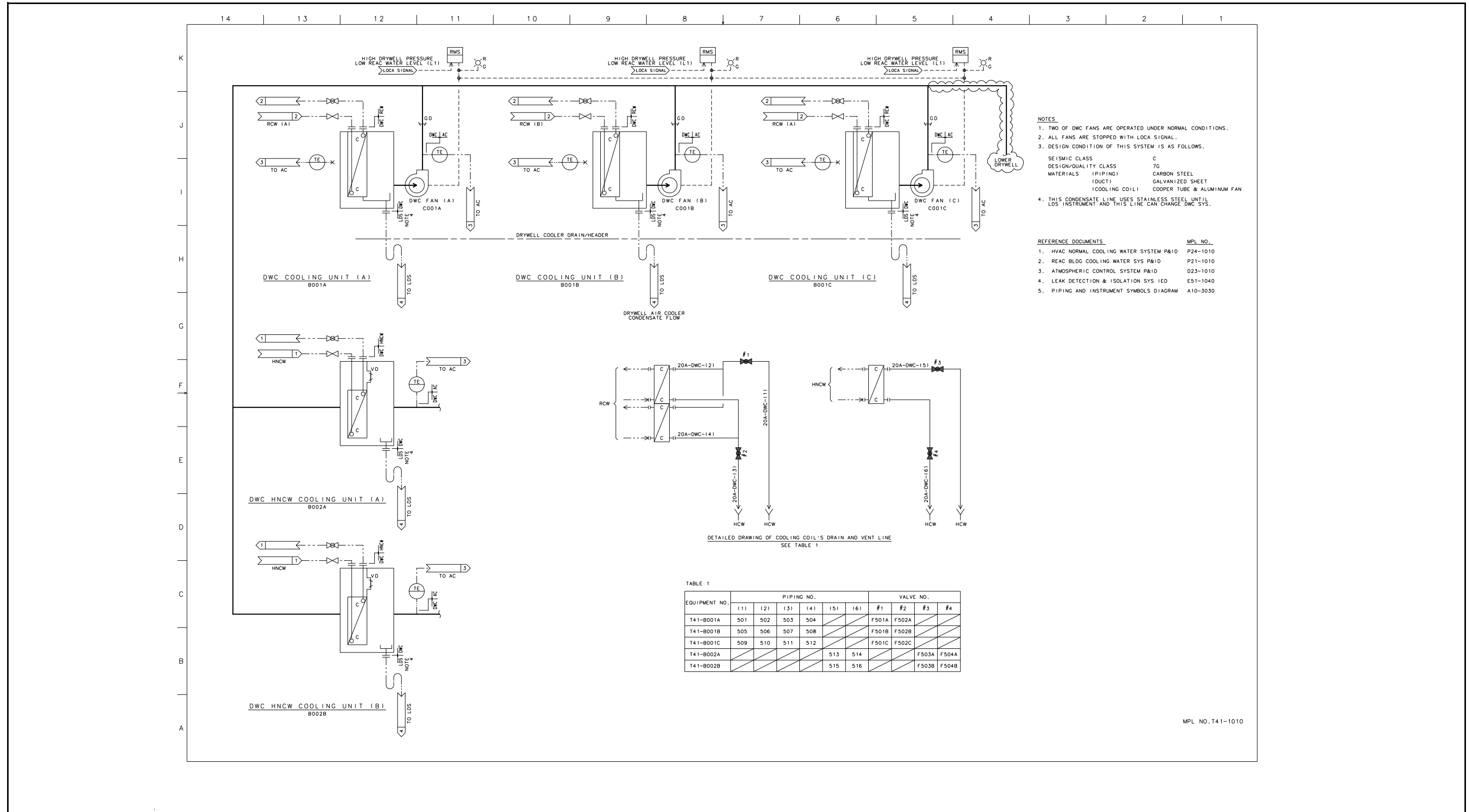


Figure 9.4-8 Drywell Cooling System P&ID

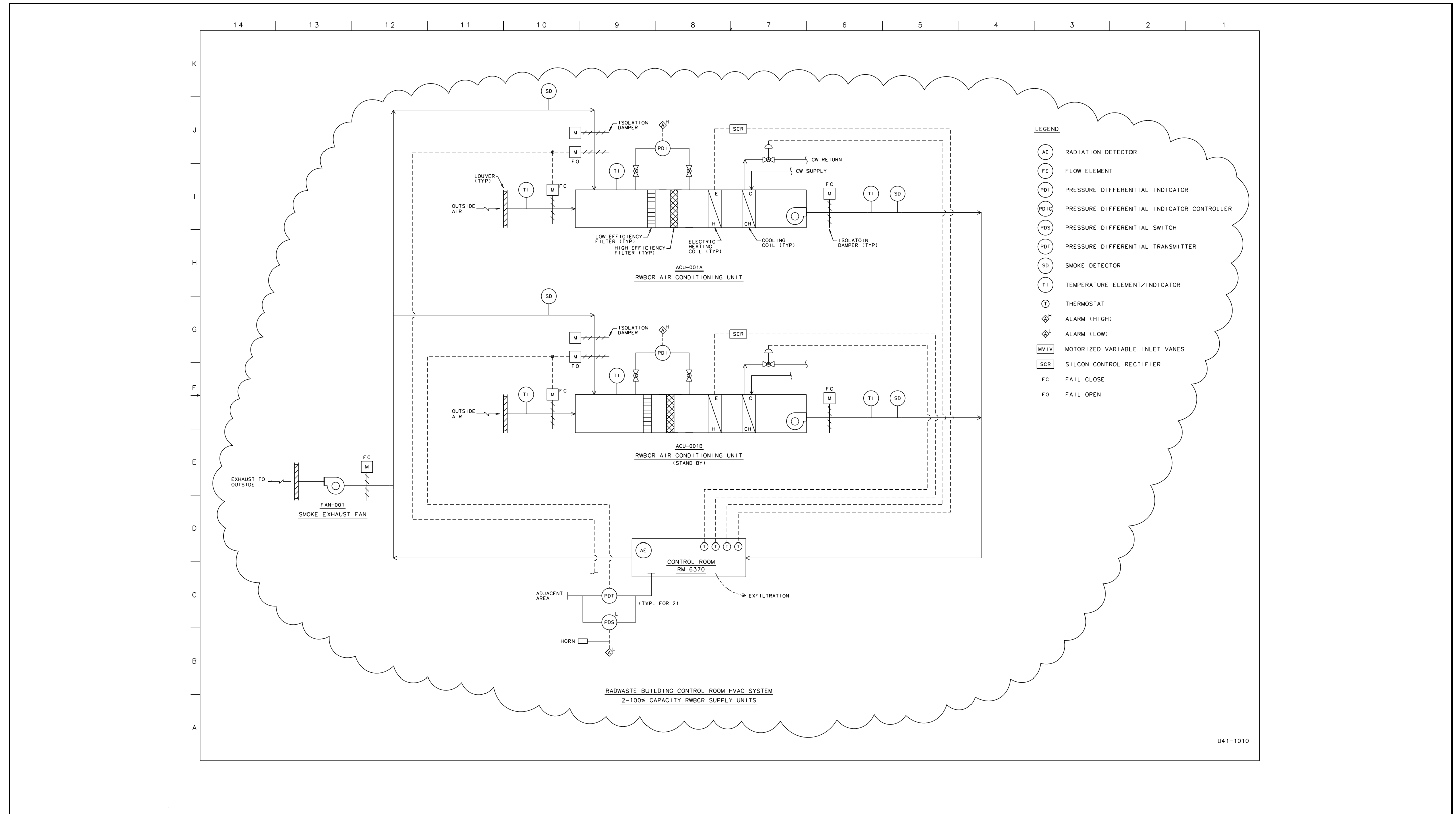


Figure 9.4-10 Radwaste Building HVAC P&ID (Sheet 1 of 3)

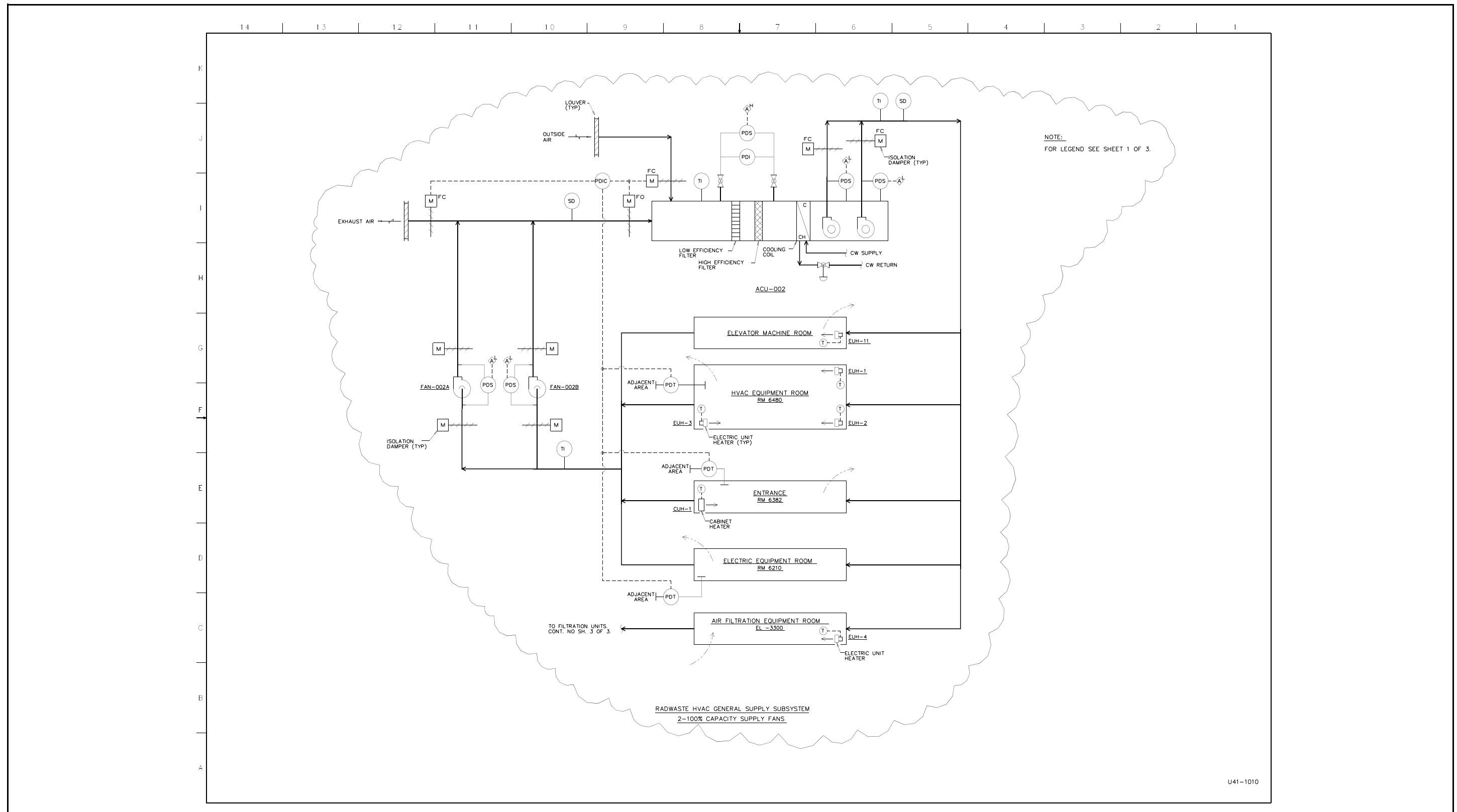


Figure 9.4-10 Radwaste Building HVAC P&ID (Sheet 2 of 3)

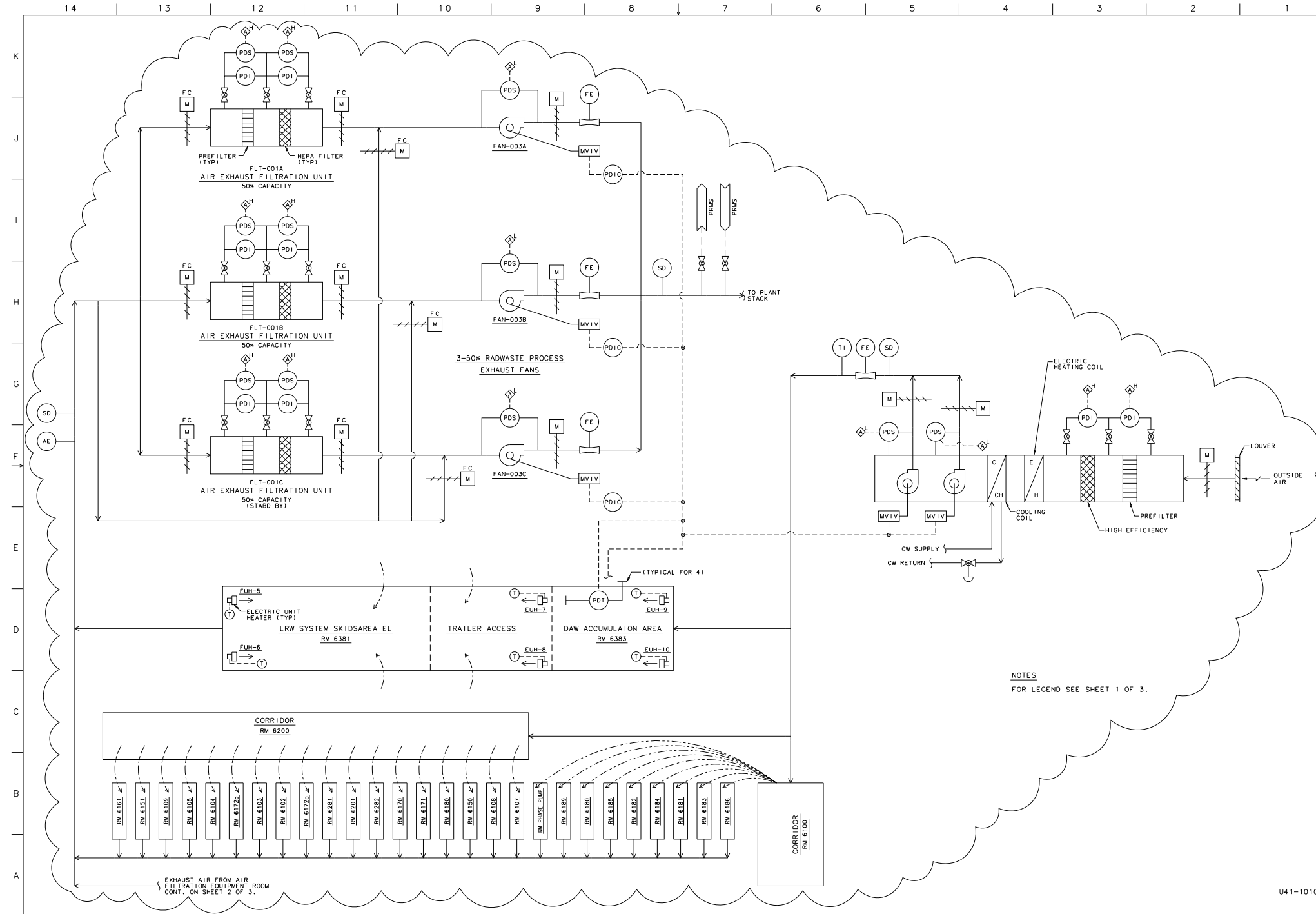
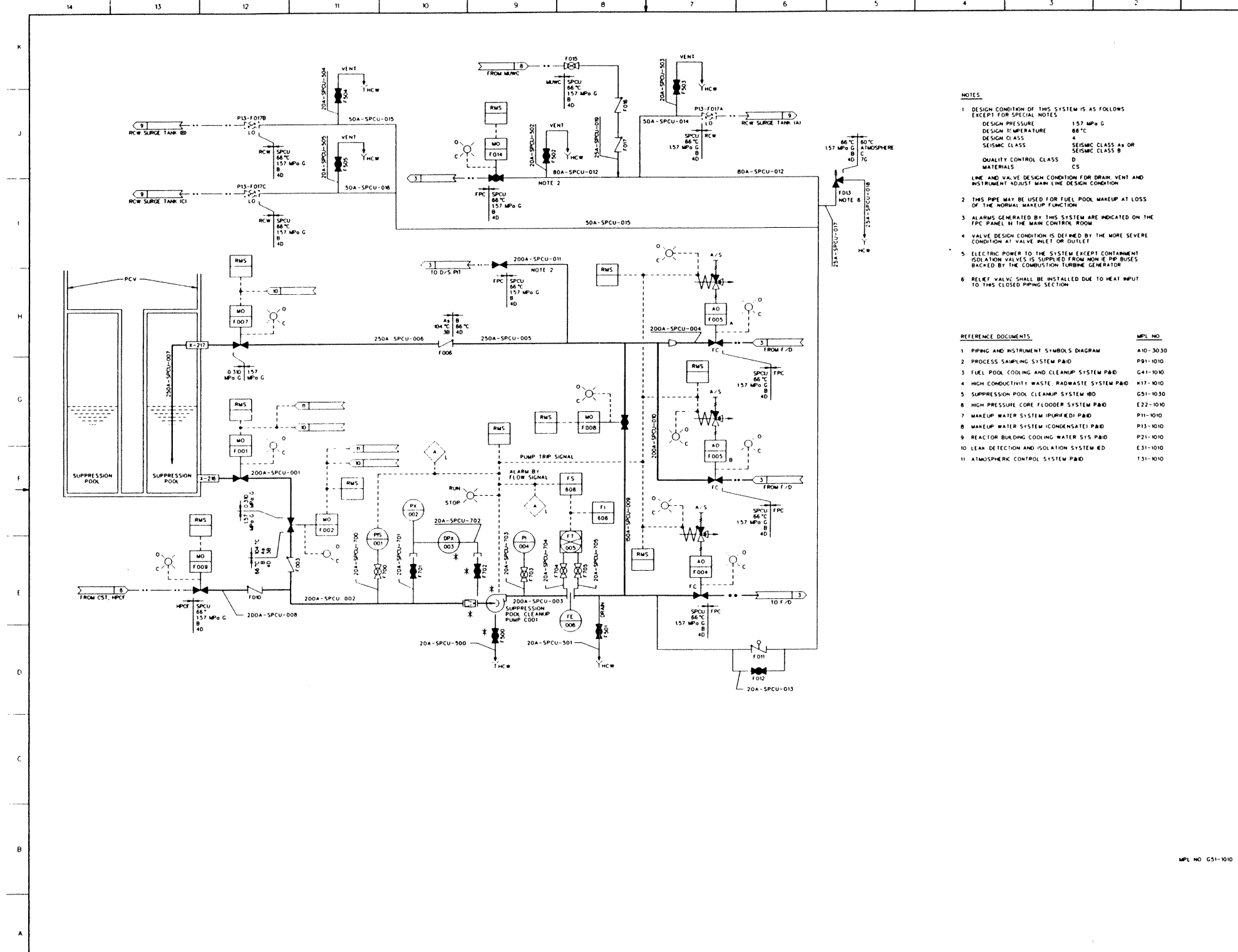


Figure 9.4-10 Radwaste Building HVAC P&ID (Sheet 3 of 3)



- NOTES:**
- DESIGN CONDITION OF THIS SYSTEM IS AS FOLLOWS EXCEPT FOR SPECIAL NOTES
 DESIGN PRESSURE 157 MPa G
 DESIGN TEMPERATURE 86 °C
 DESIGN CLASS A
 SEISMIC CLASS A4 OR SEISMIC CLASS B
 QUALITY CONTROL CLASS D
 MATERIALS CS
 - LINE AND VALVE DESIGN CONDITION FOR DRAIN, VENT AND INSTRUMENT ADJUST MAIN LINE DESIGN CONDITION
 - THIS PIPE MAY BE USED FOR FUEL POOL MAKEUP AT LOSS OF THE NORMAL MAKEUP FUNCTION
 - ALARMS GENERATED BY THIS SYSTEM ARE INDICATED ON THE FPC PANEL IN THE MAIN CONTROL ROOM
 - VALVE DESIGN CONDITION IS DEFINED BY THE MORE SEVERE CONDITION AT VALVE INLET OR OUTLET
 - ELECTRIC POWER TO THE SYSTEM EXCEPT CONTAINMENT ISOLATION VALVES IS SUPPLIED FROM NON-E PP BUSES BACKED BY THE COMBUSTION TURBINE GENERATOR
 - RELIEF VALVE SHALL BE INSTALLED DUE TO HEAT INPUT TO THIS CLOSED PIPING SECTION

REFERENCE DOCUMENTS

REFERENCE DOCUMENTS	MPL NO.
1 PIPING AND INSTRUMENT SYMBOLS DIAGRAM	A10-3030
2 PROCESS SAMPLING SYSTEM P&ID	P01-1010
3 FUEL POOL COOLING AND CLEANUP SYSTEM P&ID	G41-1010
4 HIGH CONDUCTIVITY WASTE, RADWASTE SYSTEM P&ID	K17-1010
5 SUPPRESSION POOL CLEANUP SYSTEM P&ID	G51-1030
6 HIGH PRESSURE CORE FLOODER SYSTEM P&ID	E22-1010
7 MAKEUP WATER SYSTEM (SPURIED) P&ID	P11-1010
8 MAKEUP WATER SYSTEM (CONDENSATE) P&ID	P13-1010
9 REACTOR BUILDING COOLING WATER SYS P&ID	P21-1010
10 LEAK DETECTION AND ISOLATION SYSTEM P&ID	E31-1010
11 ATMOSPHERIC CONTROL SYSTEM P&ID	L31-1010

MPL NO G51-1010

Figure 9.5-1 Suppression Pool Cleanup System P&ID

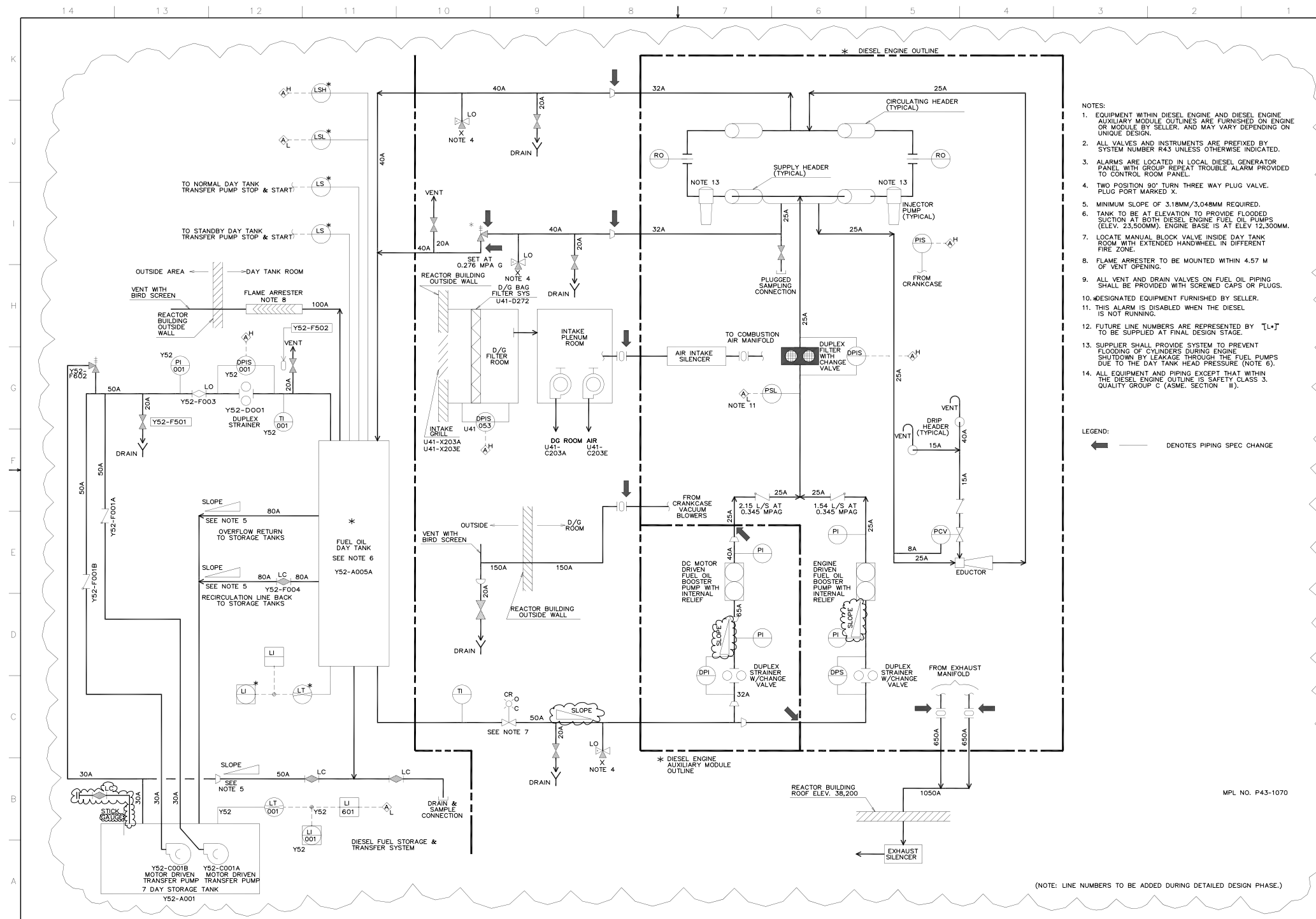


Figure 9.5-6 Standby Diesel Generator Fuel Oil and Intake and Exhaust System

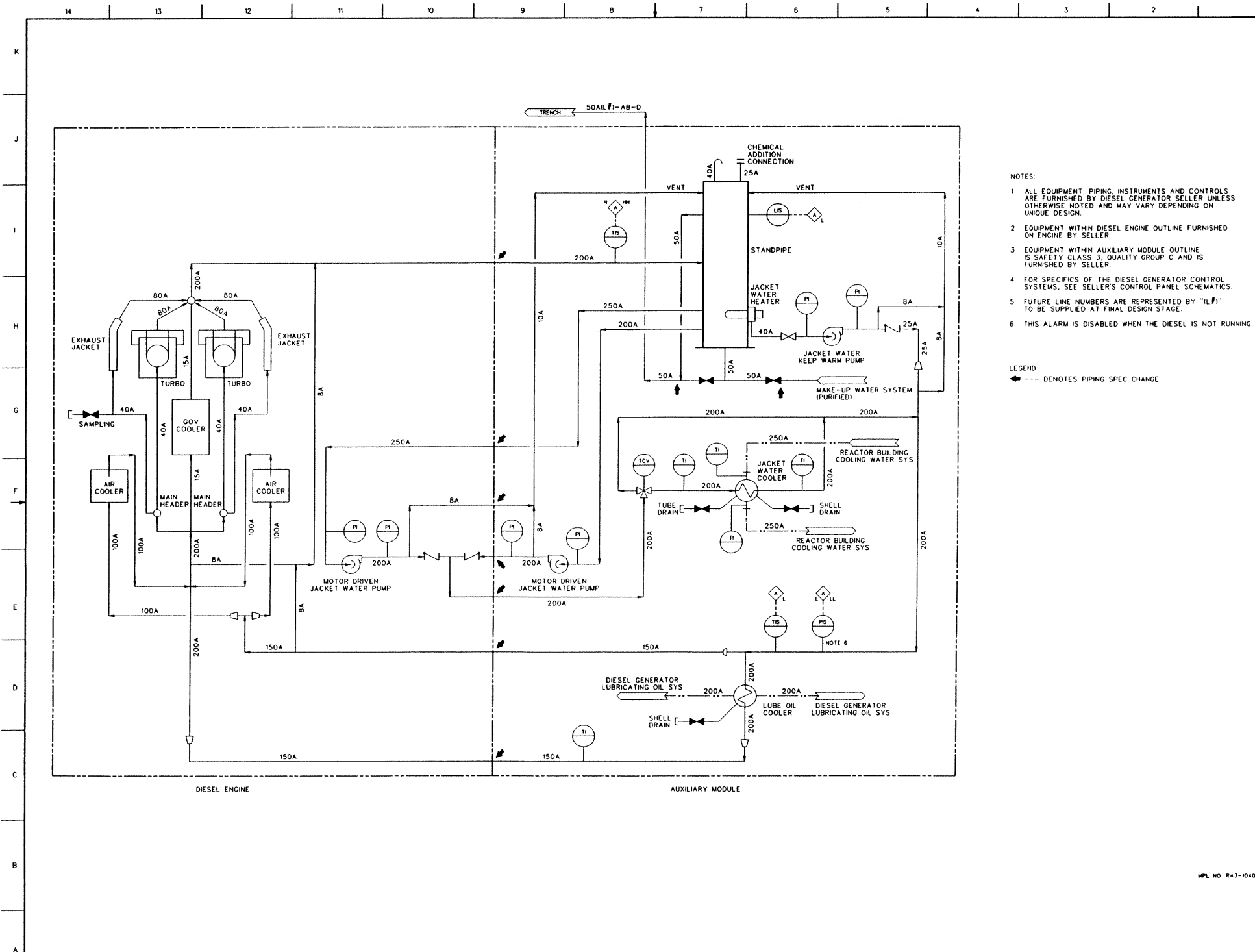


Figure 9.5-7 Standby Diesel Generator Jacket Cooling Water System

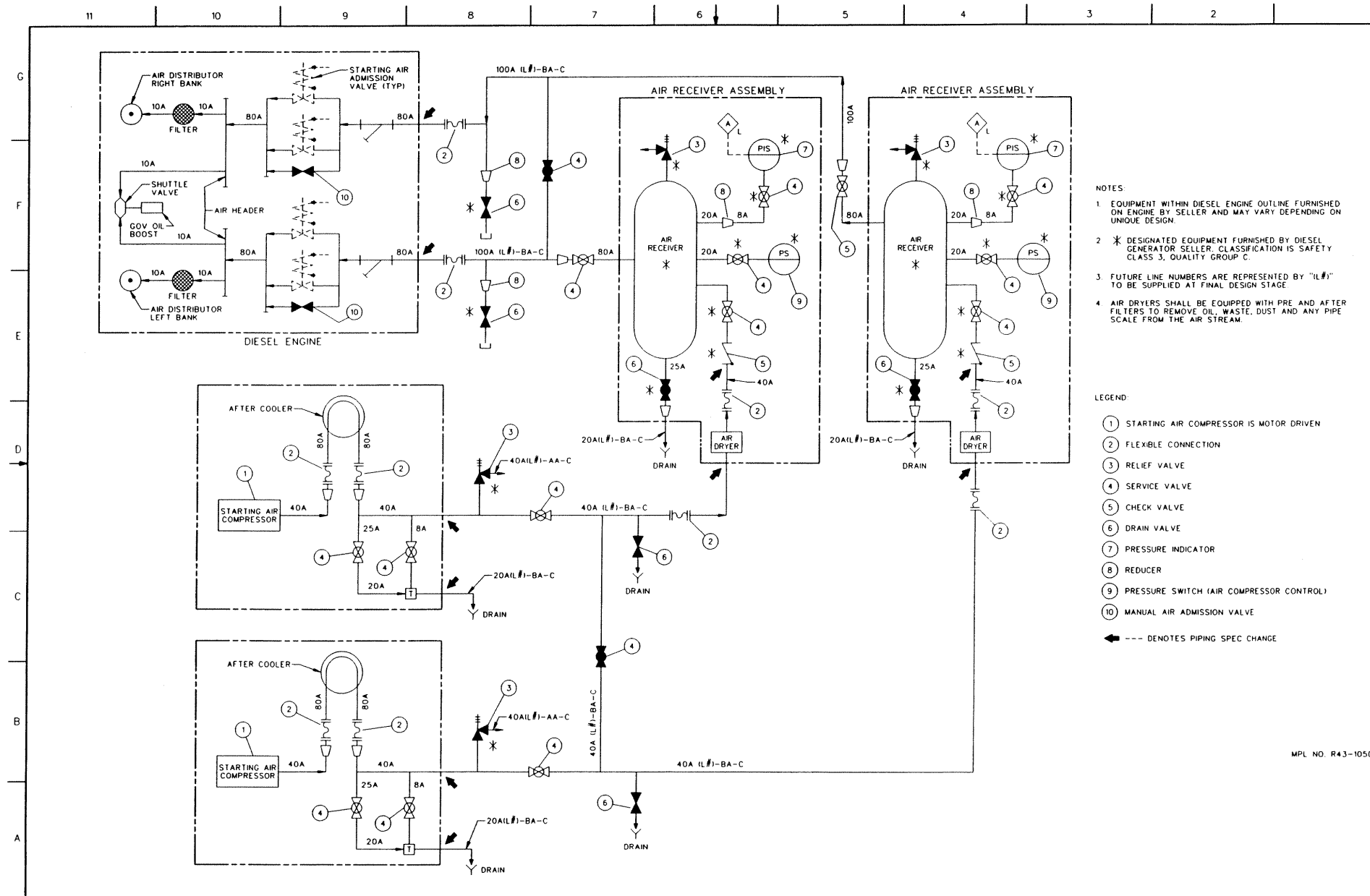


Figure 9.5-8 Standby Diesel Generator Starting Air System

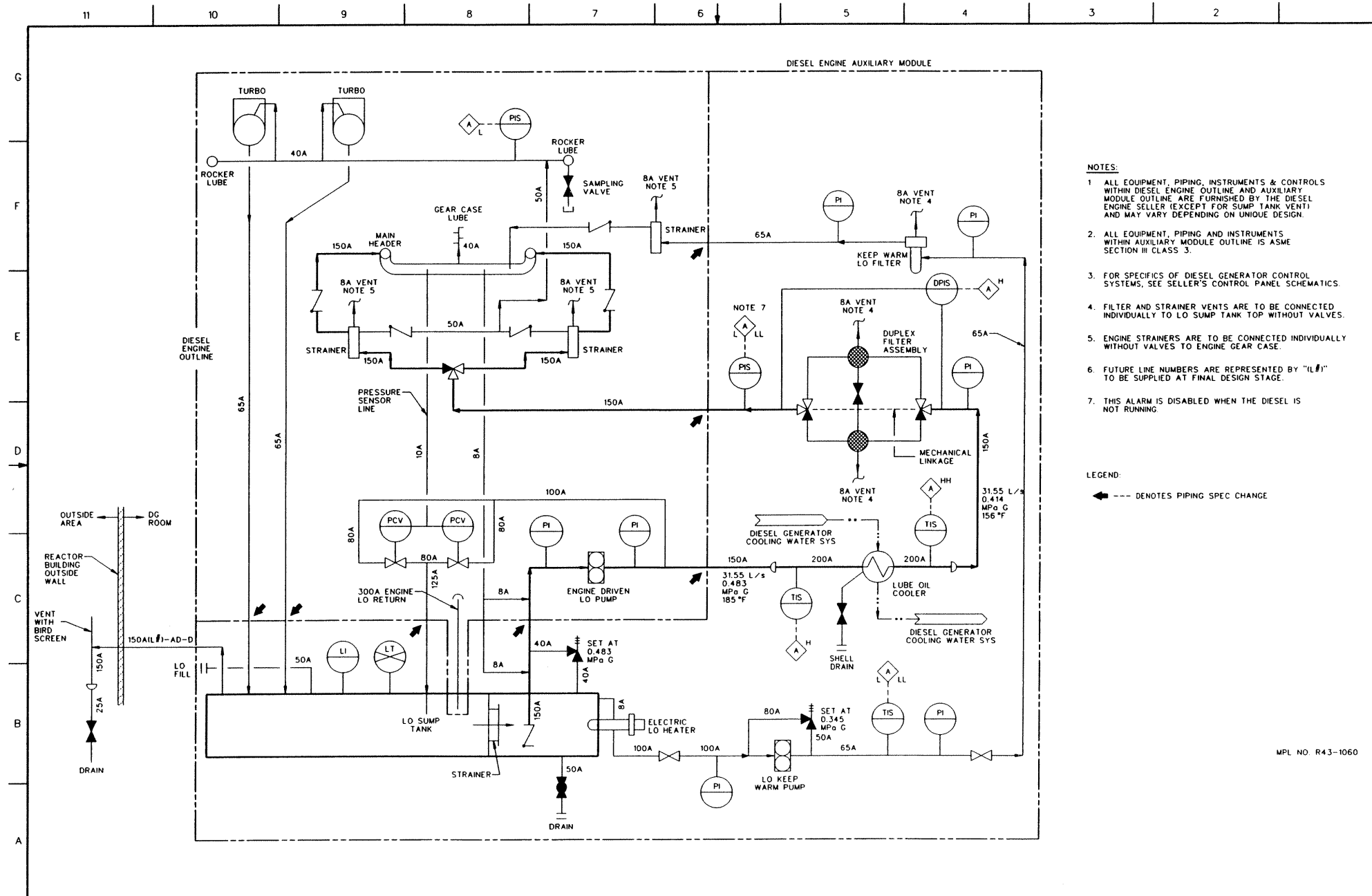


Figure 9.5-9 Standby Diesel Generator Lubricating Oil System



Figure 9A.4-1 Reactor Building Fire Protection at El. -8200 mm

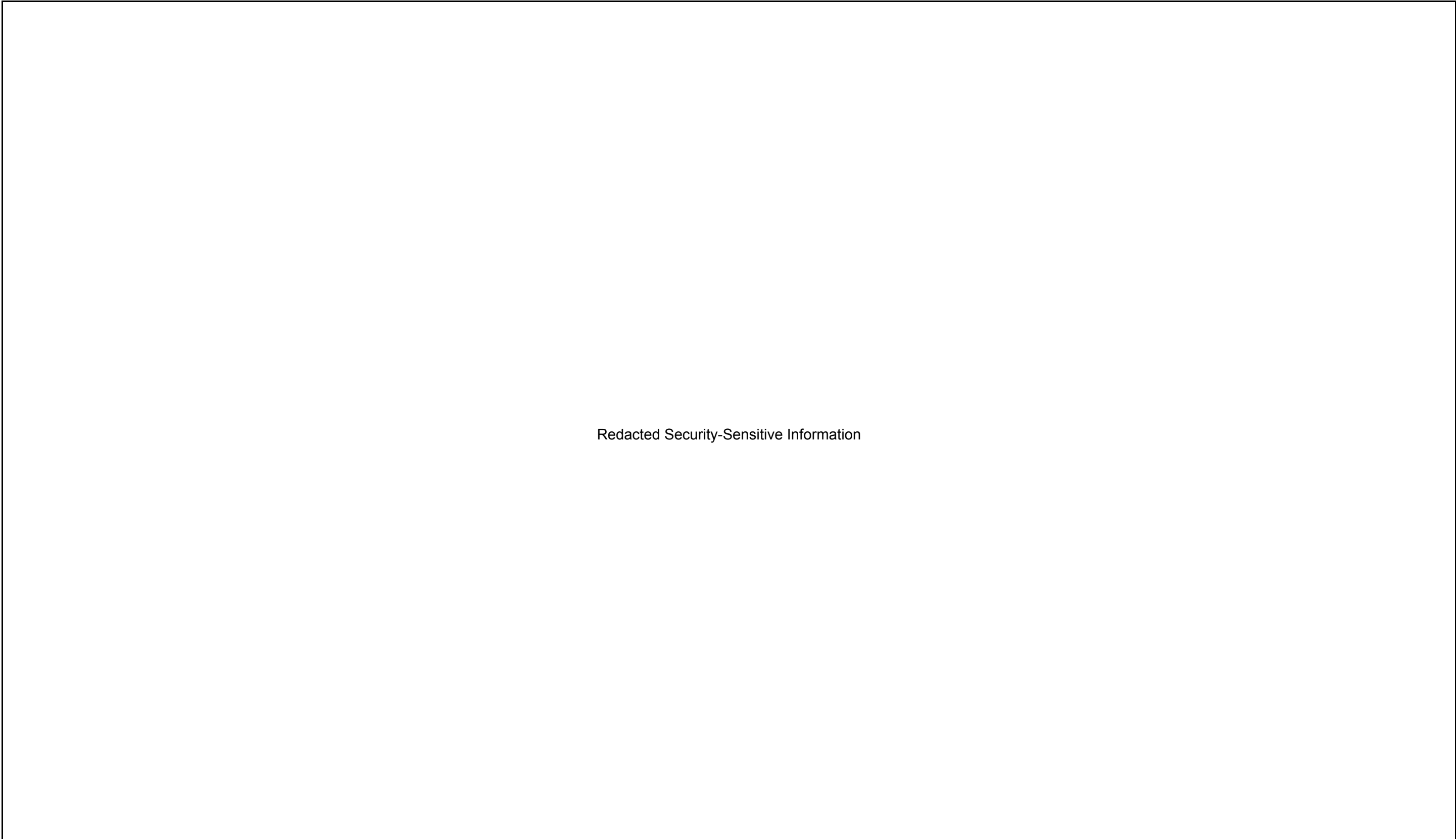


Figure 9A.4-2 Reactor Building Fire Protection at El. -1700 mm



Figure 9A.4-3 Reactor Building Fire Protection at El. 4800/8500 mm

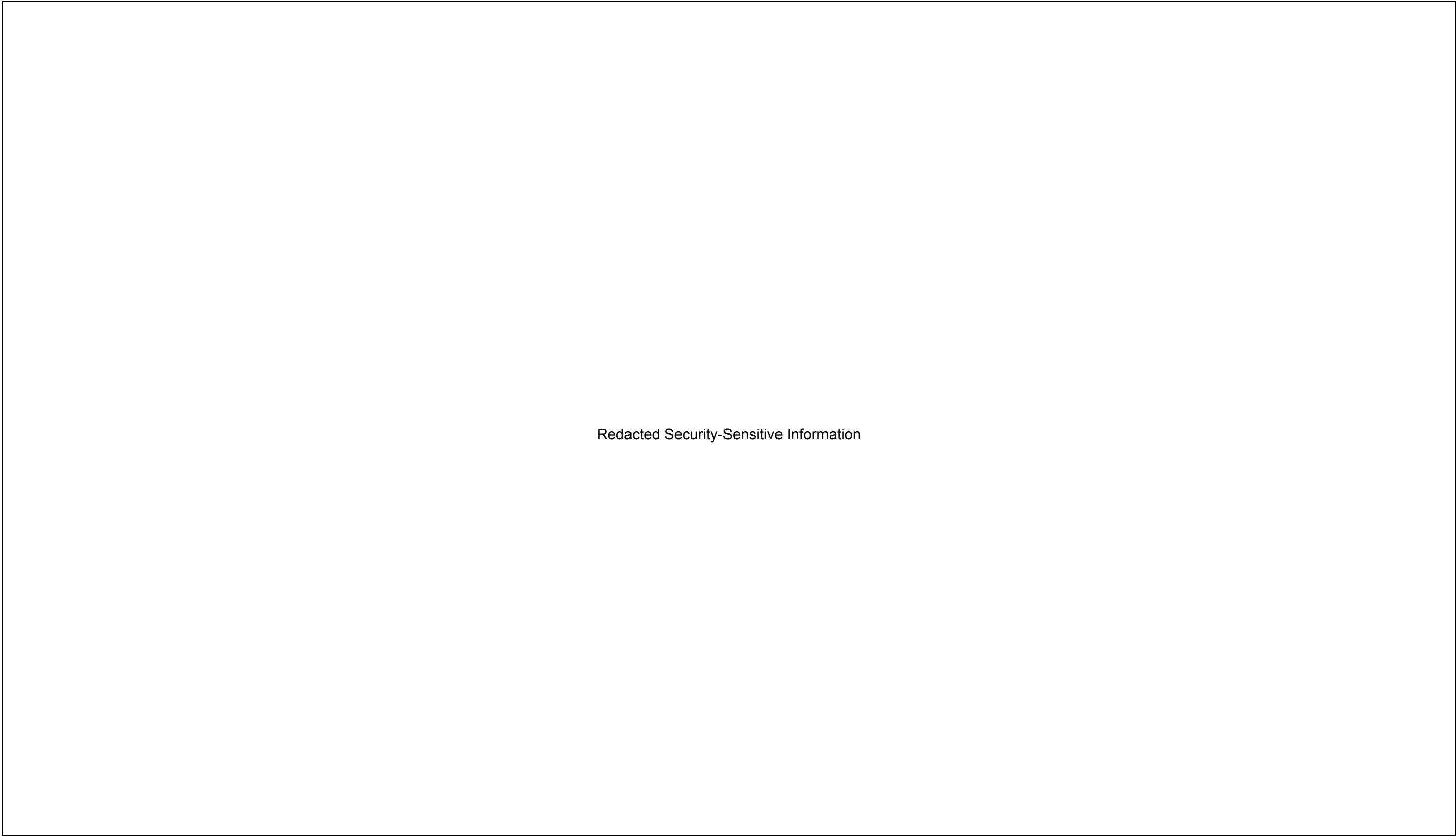


Figure 9A.4-4 Reactor Building Fire Protection at El. 12300 mm

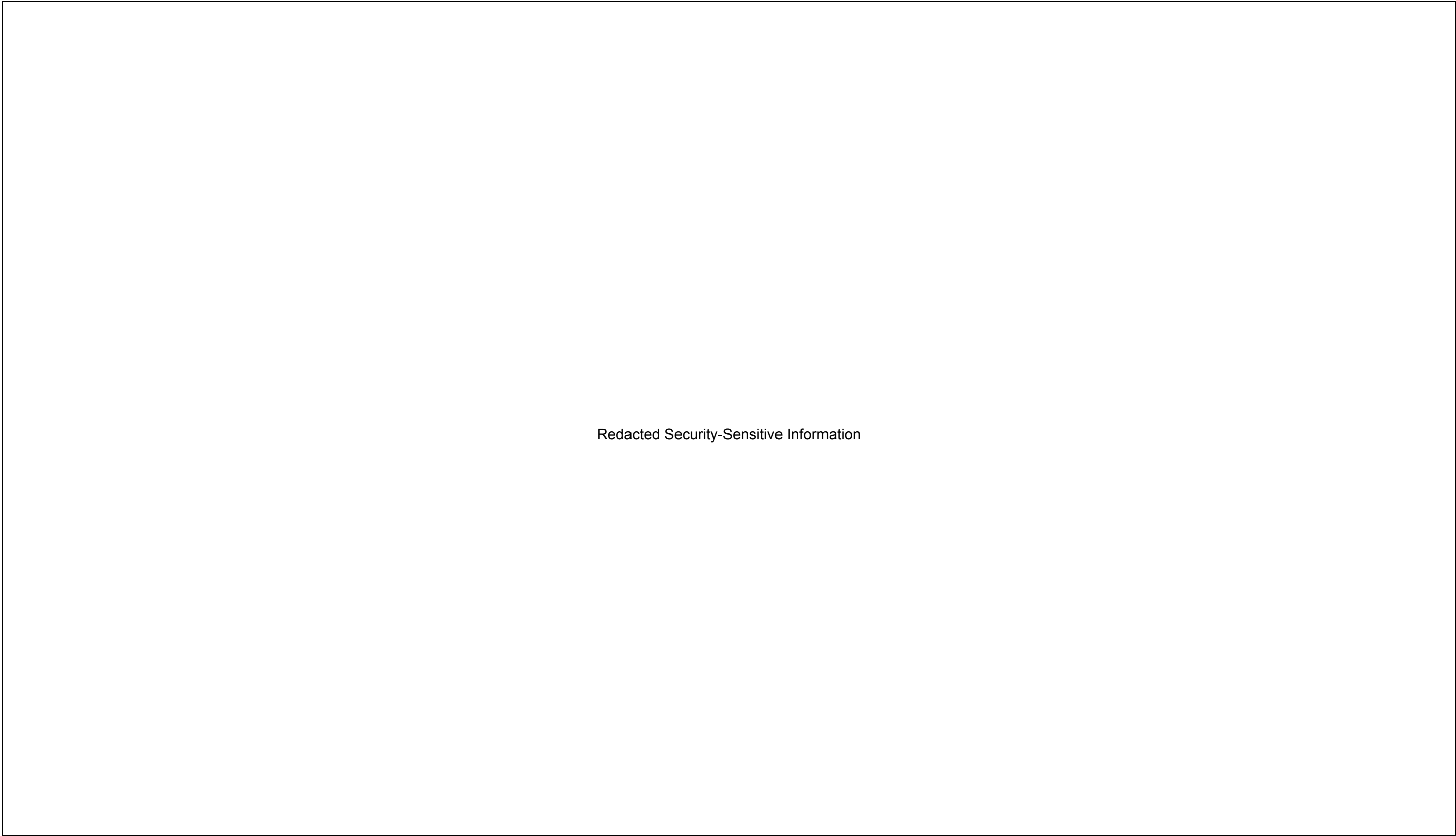


Figure 9A.4-5 Reactor Building Fire Protection at El. 18100 mm



Figure 9A.4-6 Reactor Building Fire Protection at El. 23500 mm



Figure 9A.4-7 Reactor Building Fire Protection at El. 27200 mm



Figure 9A.4-8 Reactor Building Fire Protection at El. 31700/38200 mm



Figure 9A.4-9 Reactor Building Fire Protection at Section A-A

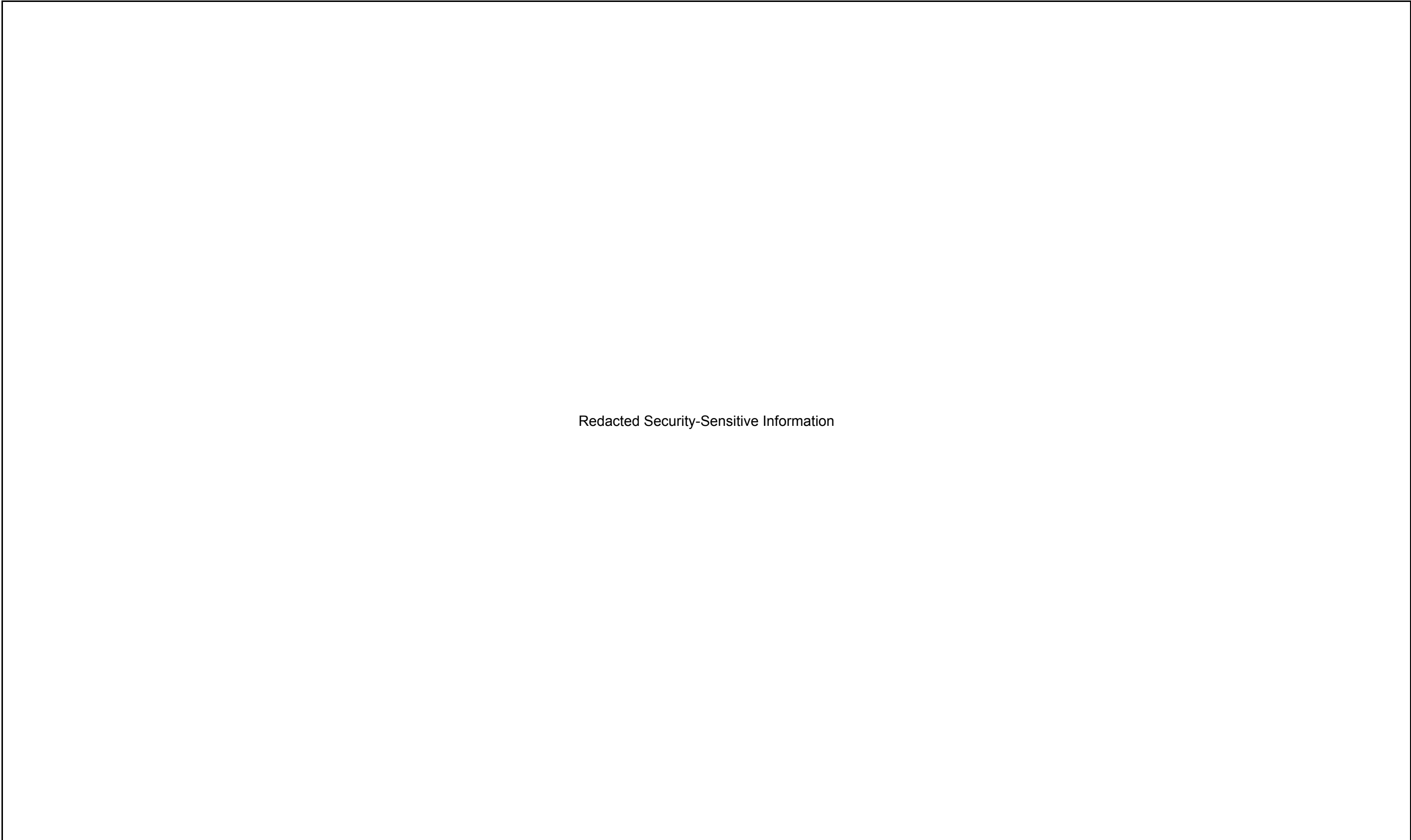


Figure 9A.4-10 Reactor Building Fire Protection at Section B-B

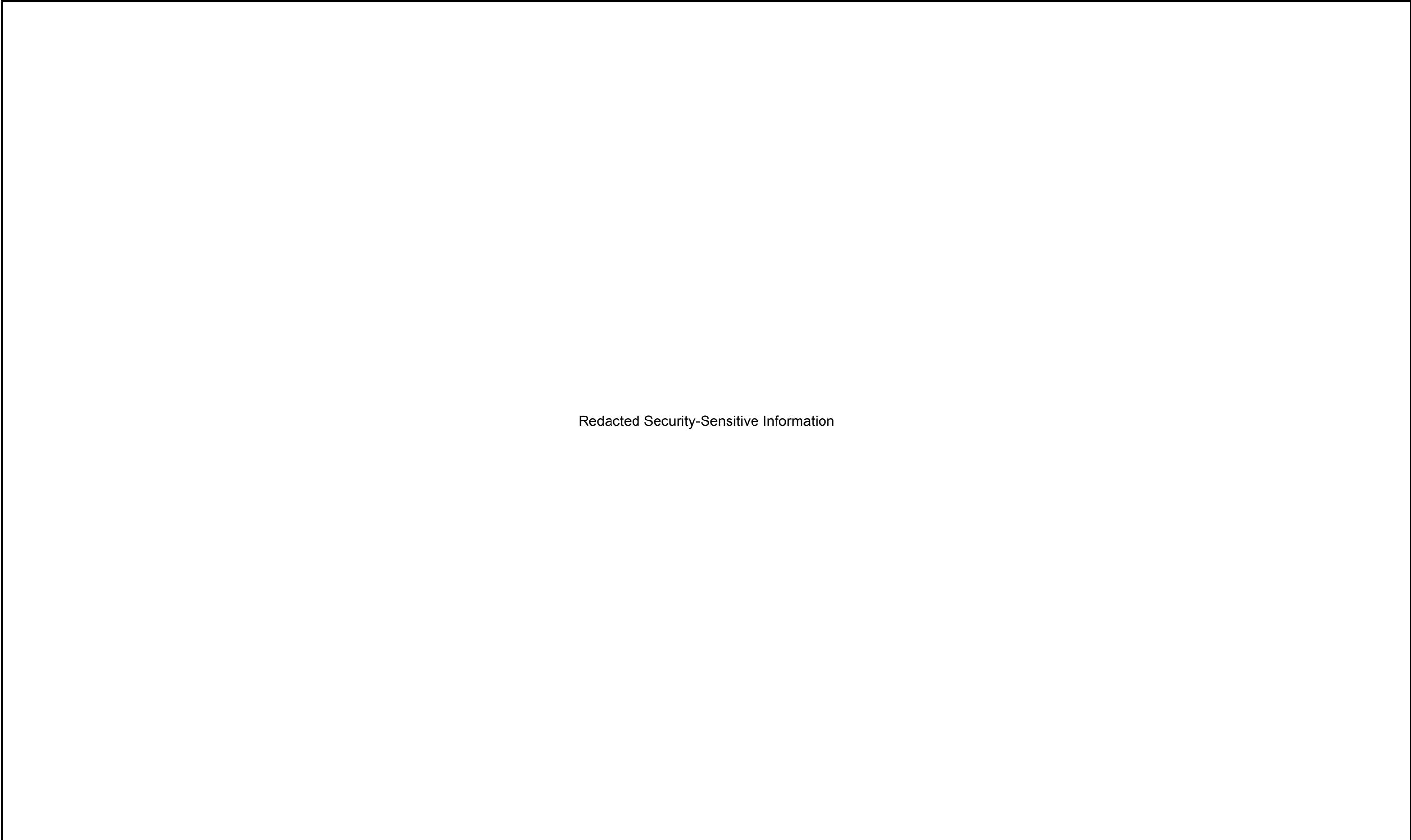


Figure 9A.4-11 Control Building Fire Protection, Section B-B



Figure 9A.4-12 Control Building Fire Protection at El. -8200 mm



Figure 9A.4-13 Control Building Fire Protection at El. -2150 mm

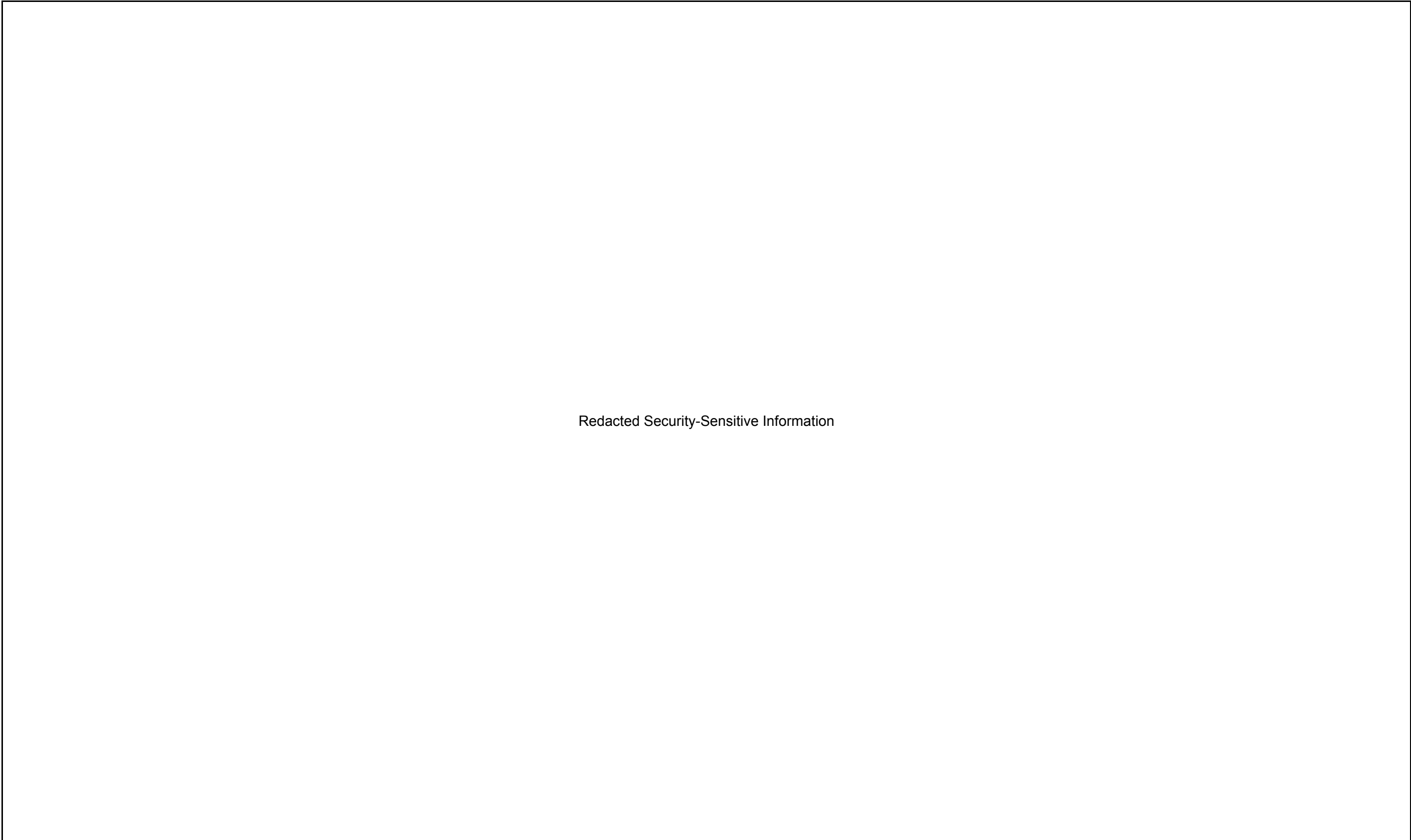


Figure 9A.4-14 Control Building Fire Protection at El. 3500 mm



Figure 9A.4-15 Control Building Fire Protection at El. 7900 mm



Figure 9A.4-16 Control Building Fire Protection at El. 12300 mm



Figure 9A.4-16A Control Building Fire Protection at El. 17150 mm



Figure 9A.4-16B Control Building Fire Protection at El. 22200 mm

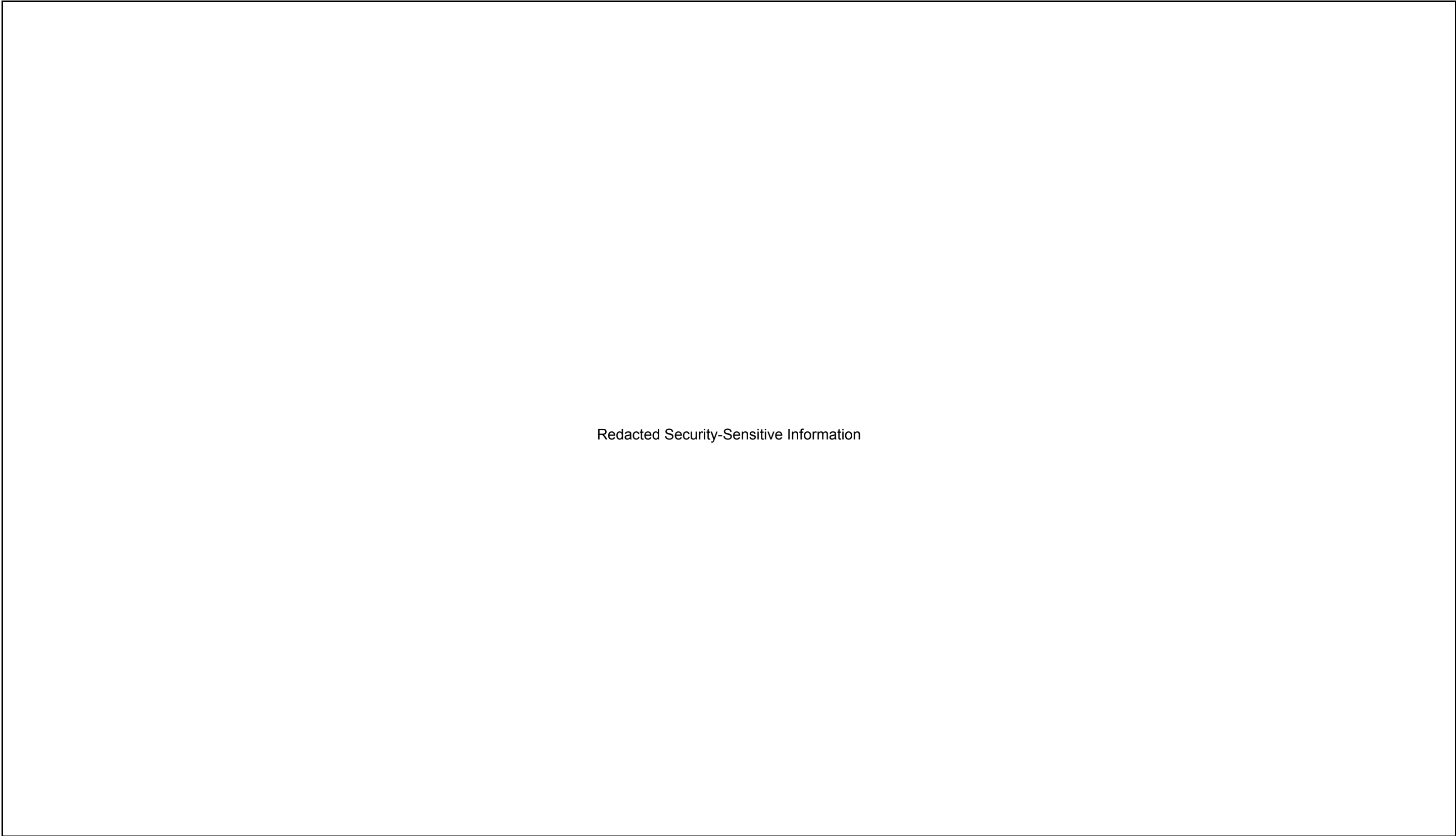


Figure 9A.4-17 Turbine Building Fire Protection at El. 2300 mm

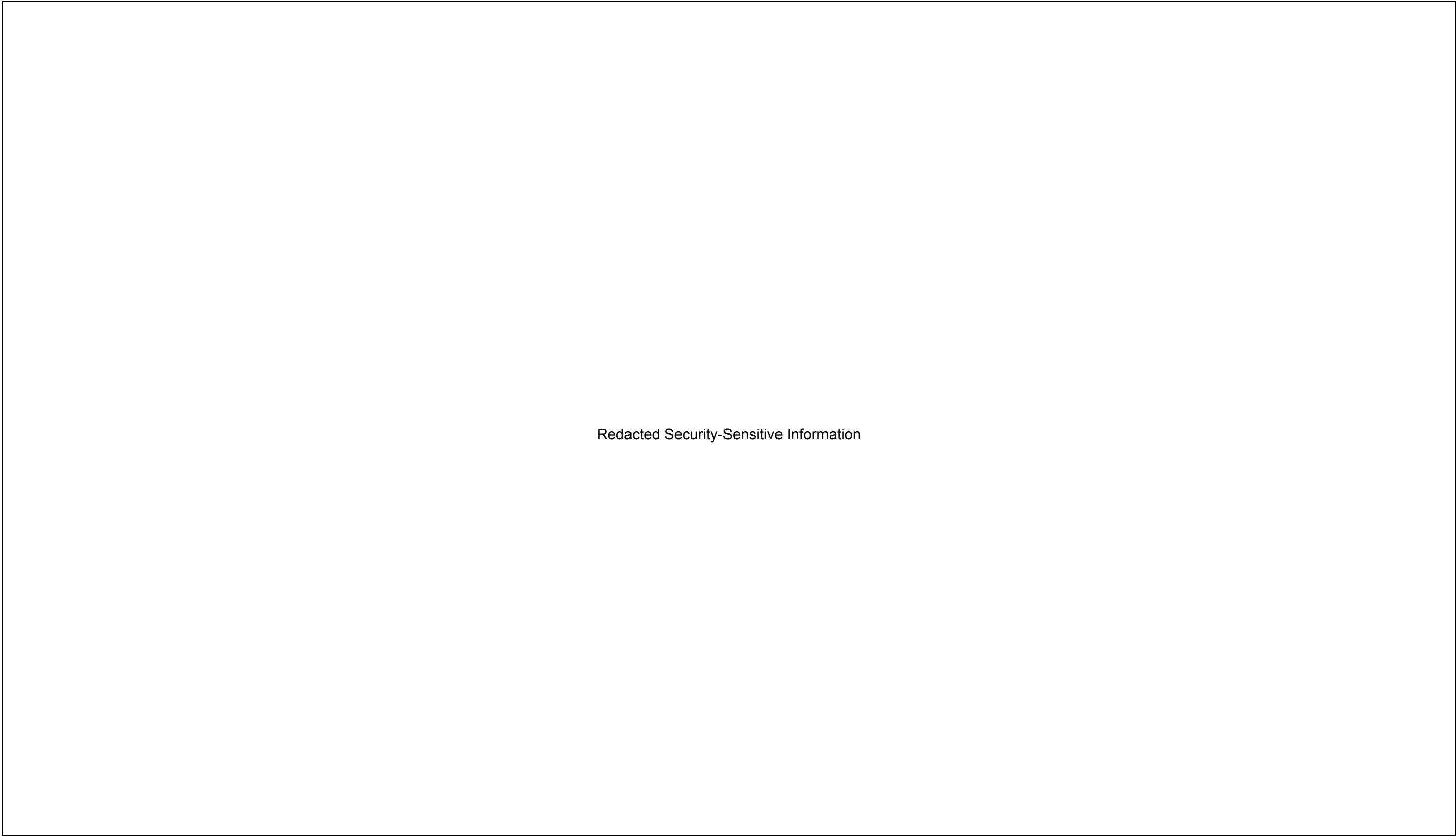


Figure 9A.4-18 Turbine Building Fire Protection at El. 6300 mm



Figure 9A.4-19 Turbine Building Fire Protection at El. 12300 mm

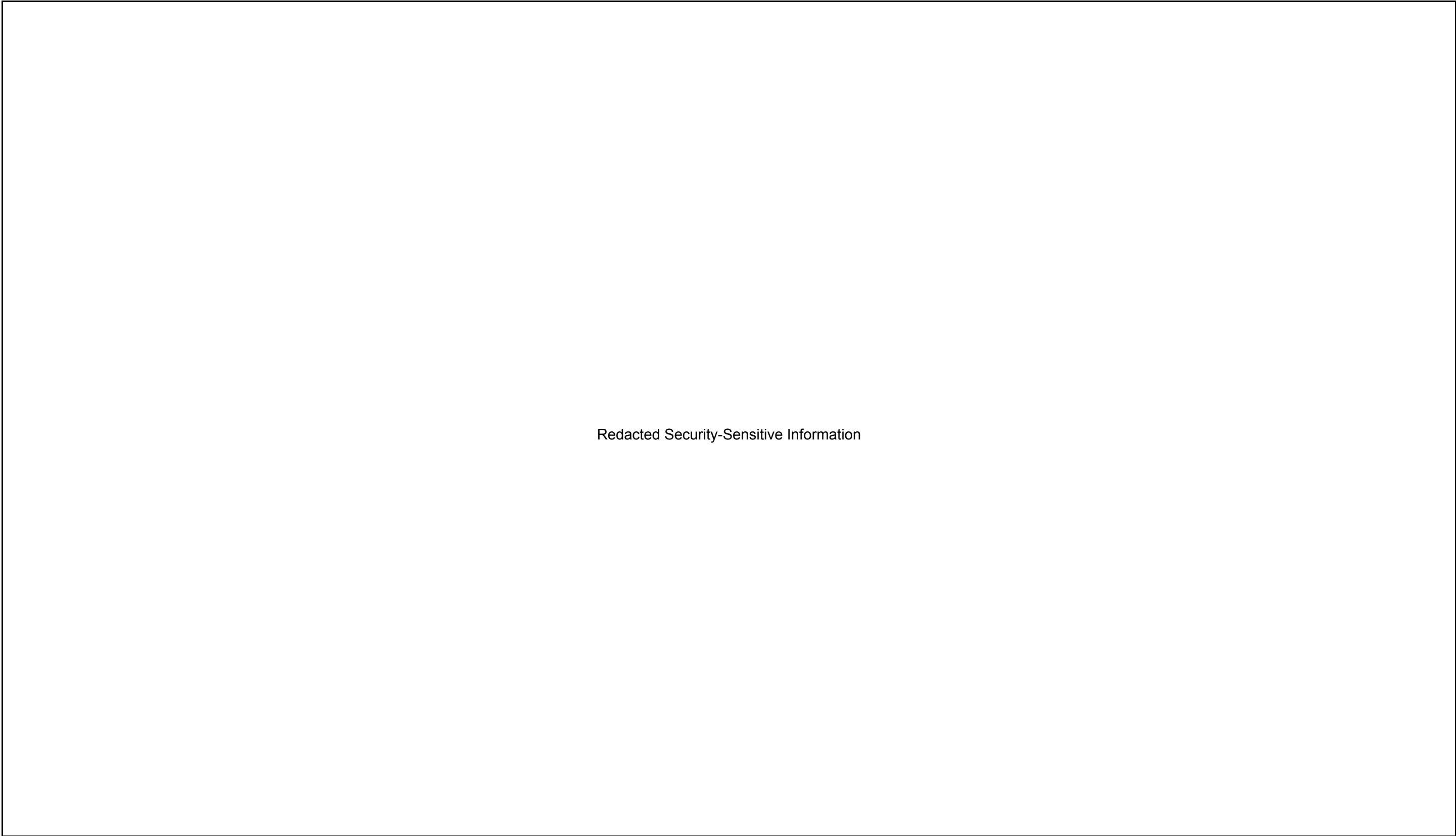


Figure 9A.4-20 Turbine Building Fire Protection at El. 19700 mm

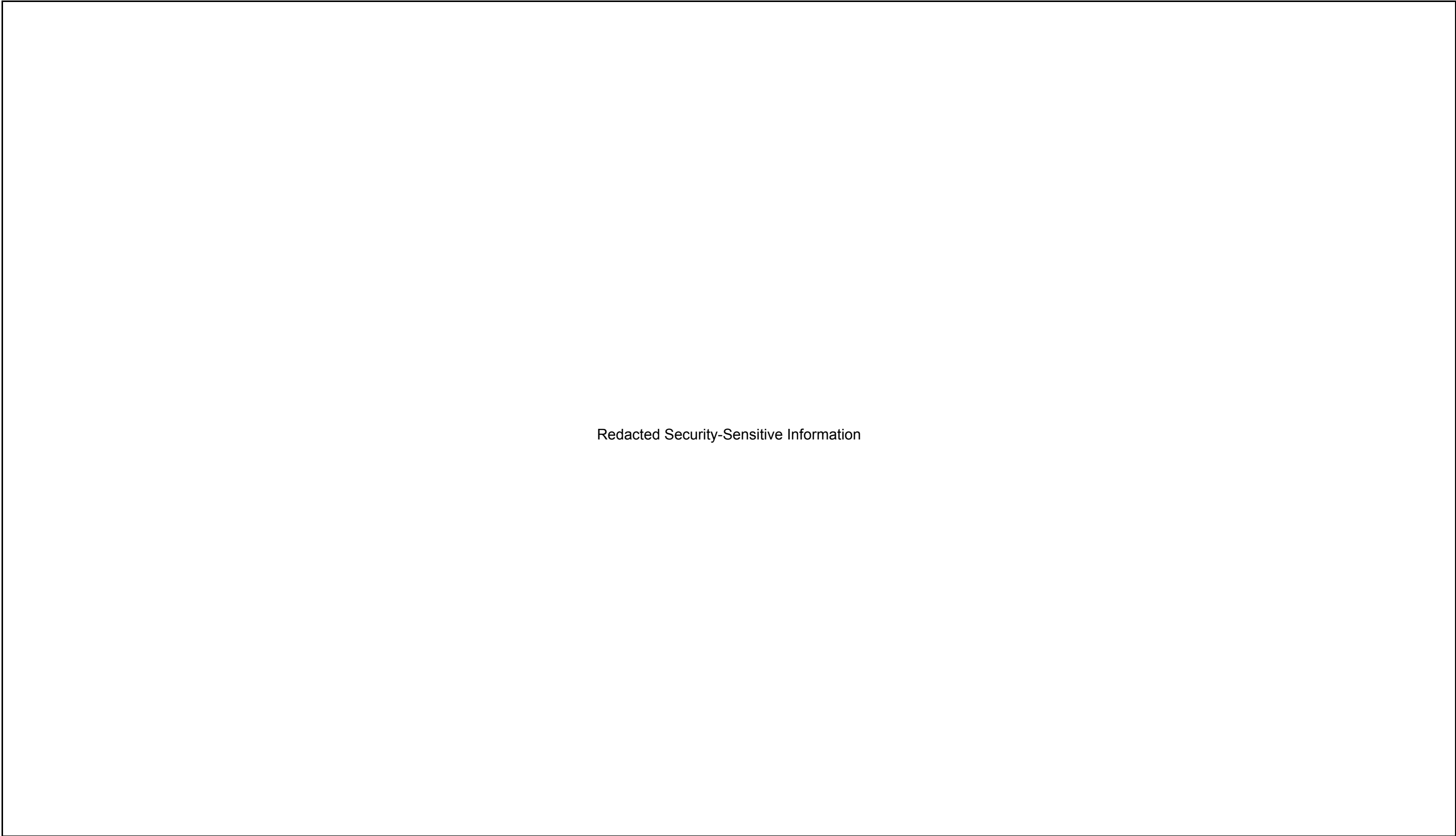


Figure 9A.4-21 Turbine Building Fire Protection at El. 27800 mm

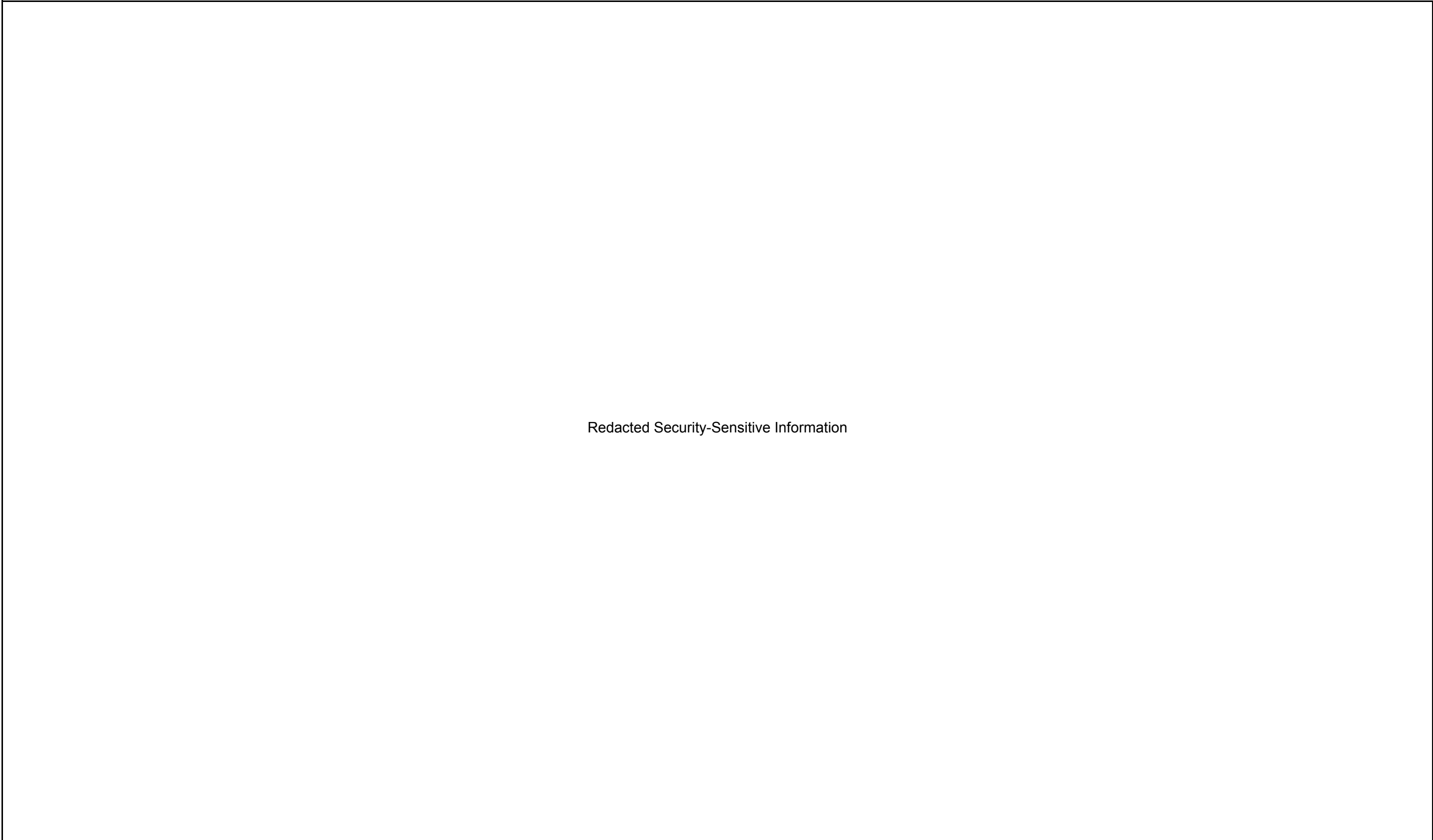


Figure 9A.4-28 Radwaste Building Fire Protection, Sections A-A and B-B (Sheet 1 of 2)

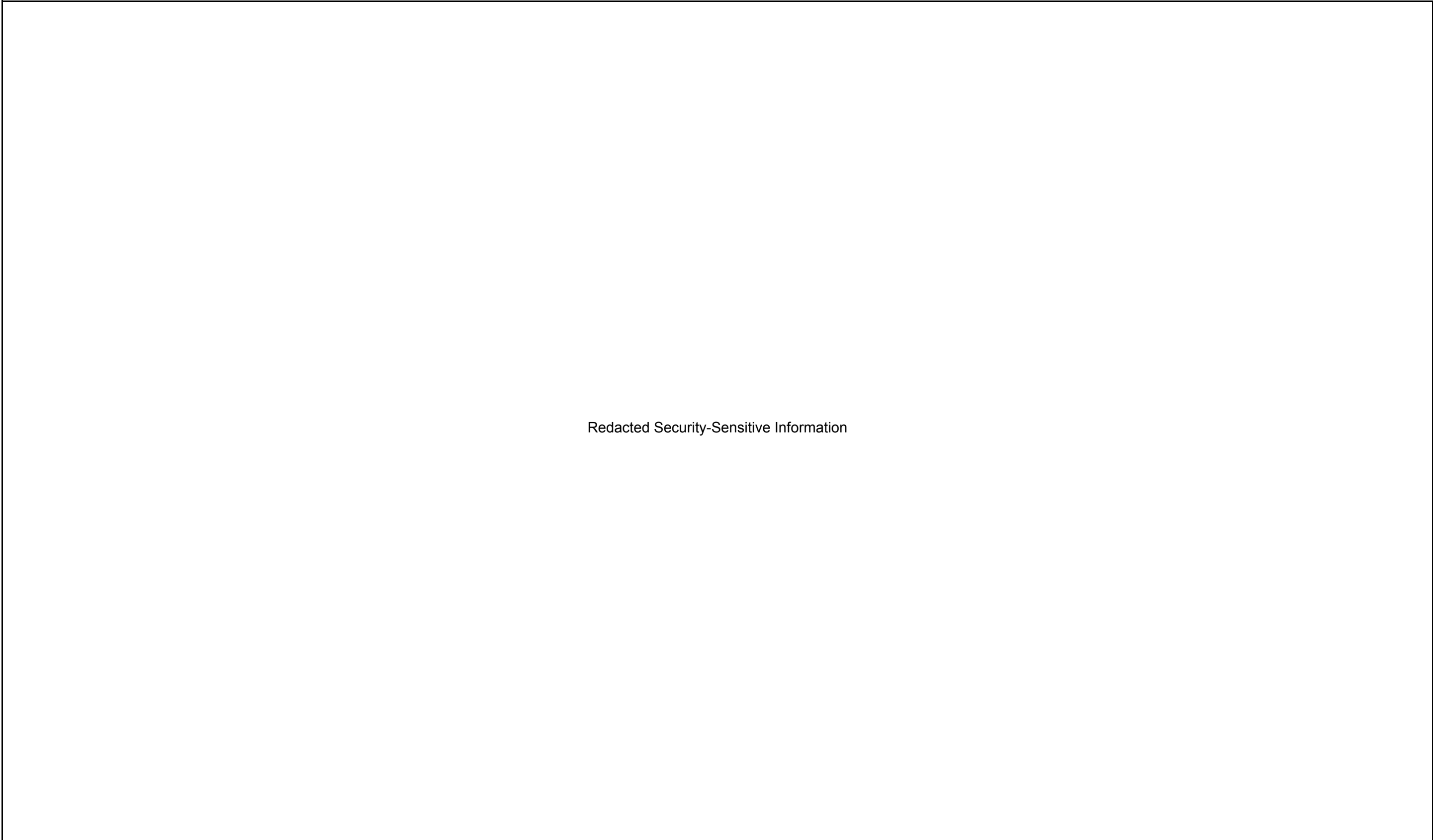


Figure 9A.4-28 Radwaste Building Fire Protection, Sections A-A and B-B (Sheet 2 of 2)

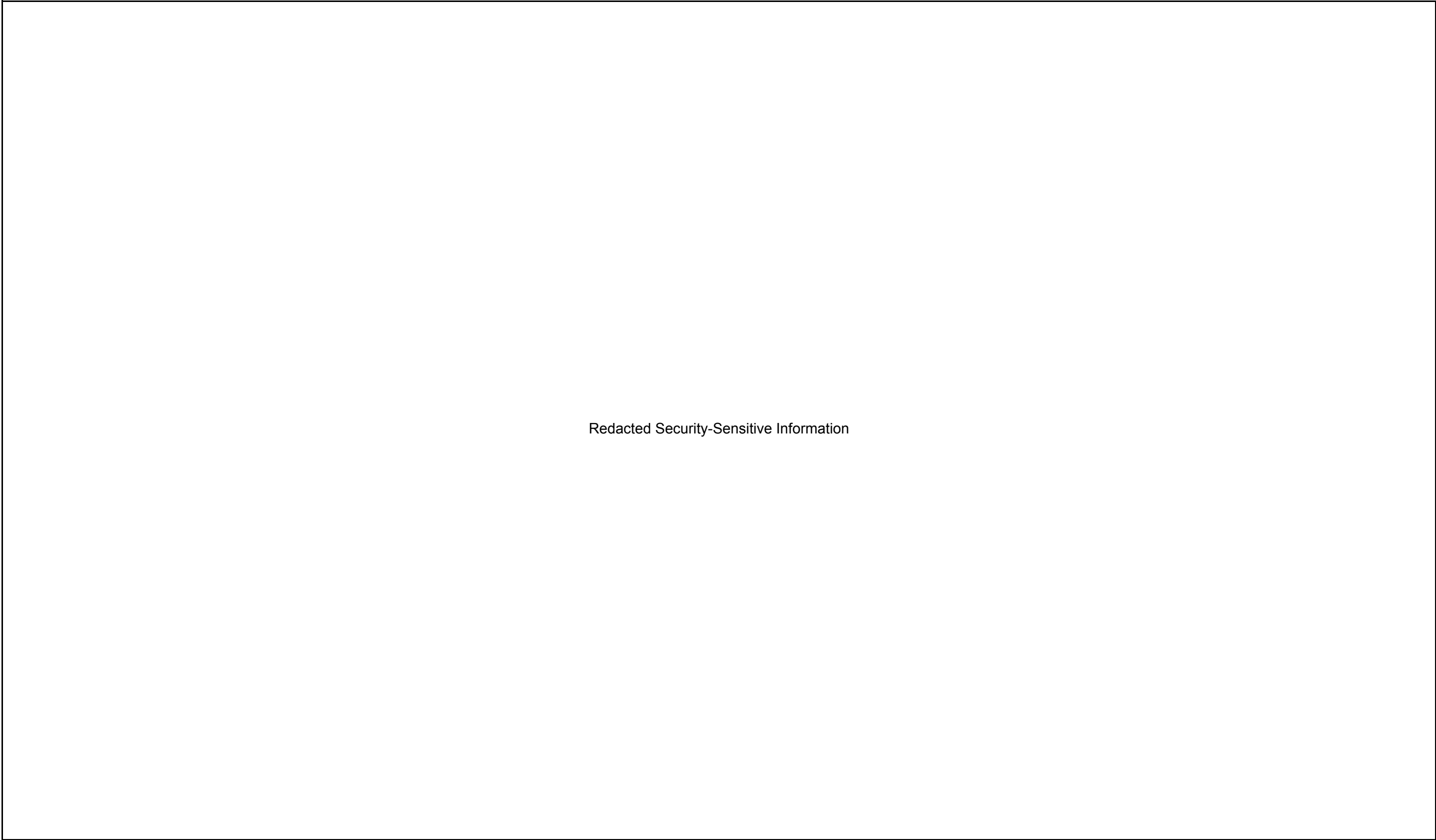


Figure 9A.4-29 Radwaste Building Fire Protection at El. -1700 mm



Figure 9A.4-30 Radwaste Building Fire Protection at El. 5300 mm



Figure 9A.4-31 Radwaste Building Fire Protection at El. 12300 mm

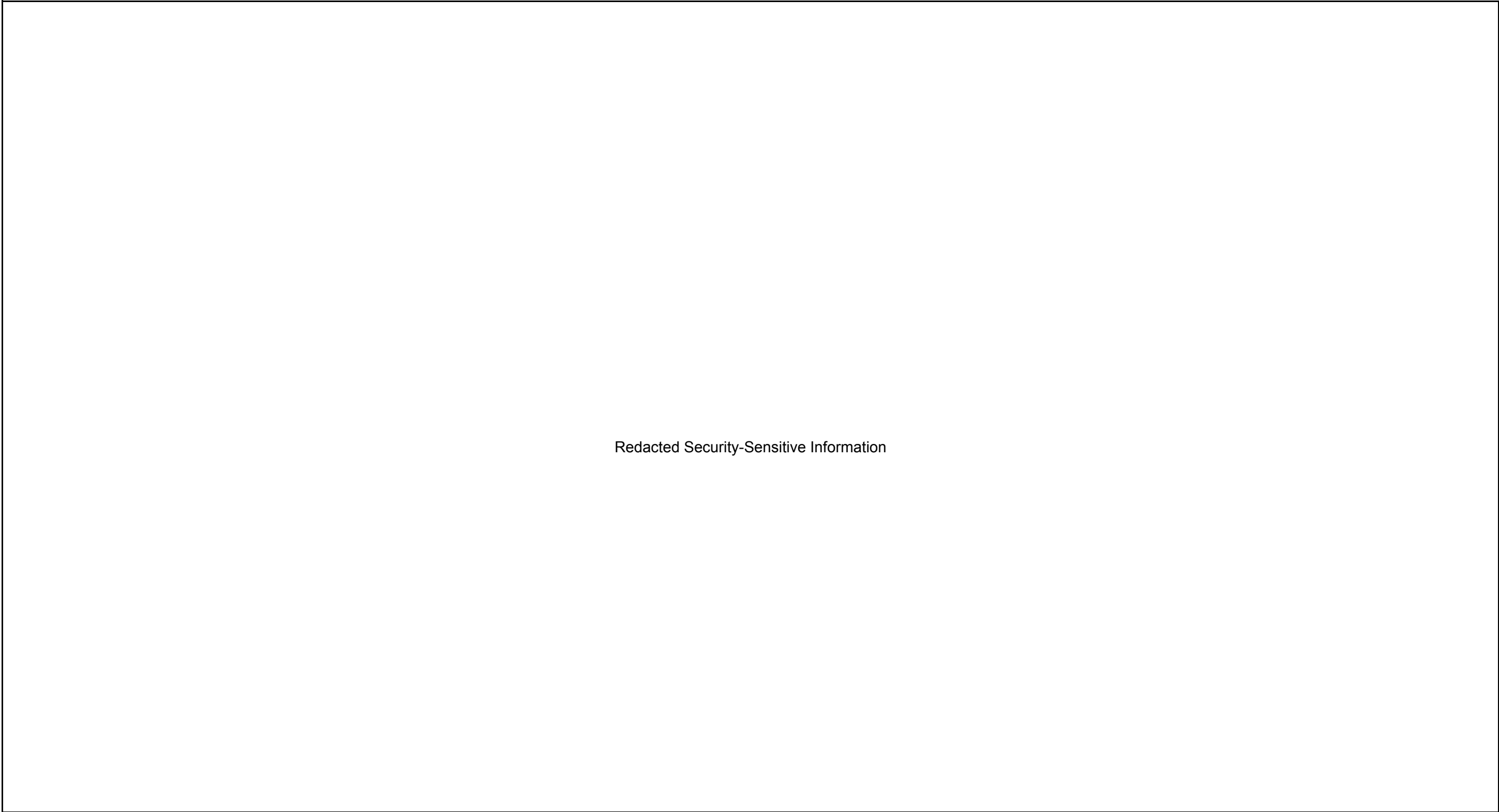


Figure 9A.4-32 Radwaste Building Fire Protection at El. 19100 mm



Figure 9A.4-33 Turbine Building Fire Protection at El. 38300 mm



Figure 9A.4-34 Turbine Building Fire Protection at El. 47200 mm