

December 2015

This version of the Diablo Canyon Power Plant Units 1 and 2 Final Safety Analysis Report Update (FSARU) is the licensee's version submitted to the NRC on May 6, 2015. This version has certain sensitive information identified by staff of the Nuclear Regulatory Commission (NRC) per 10 CFR 2.390(d)(1) that needs to be withheld from the public and is classified as non-publicly available information. As of December 2015, this is the latest FSARU revision submitted to the NRC.

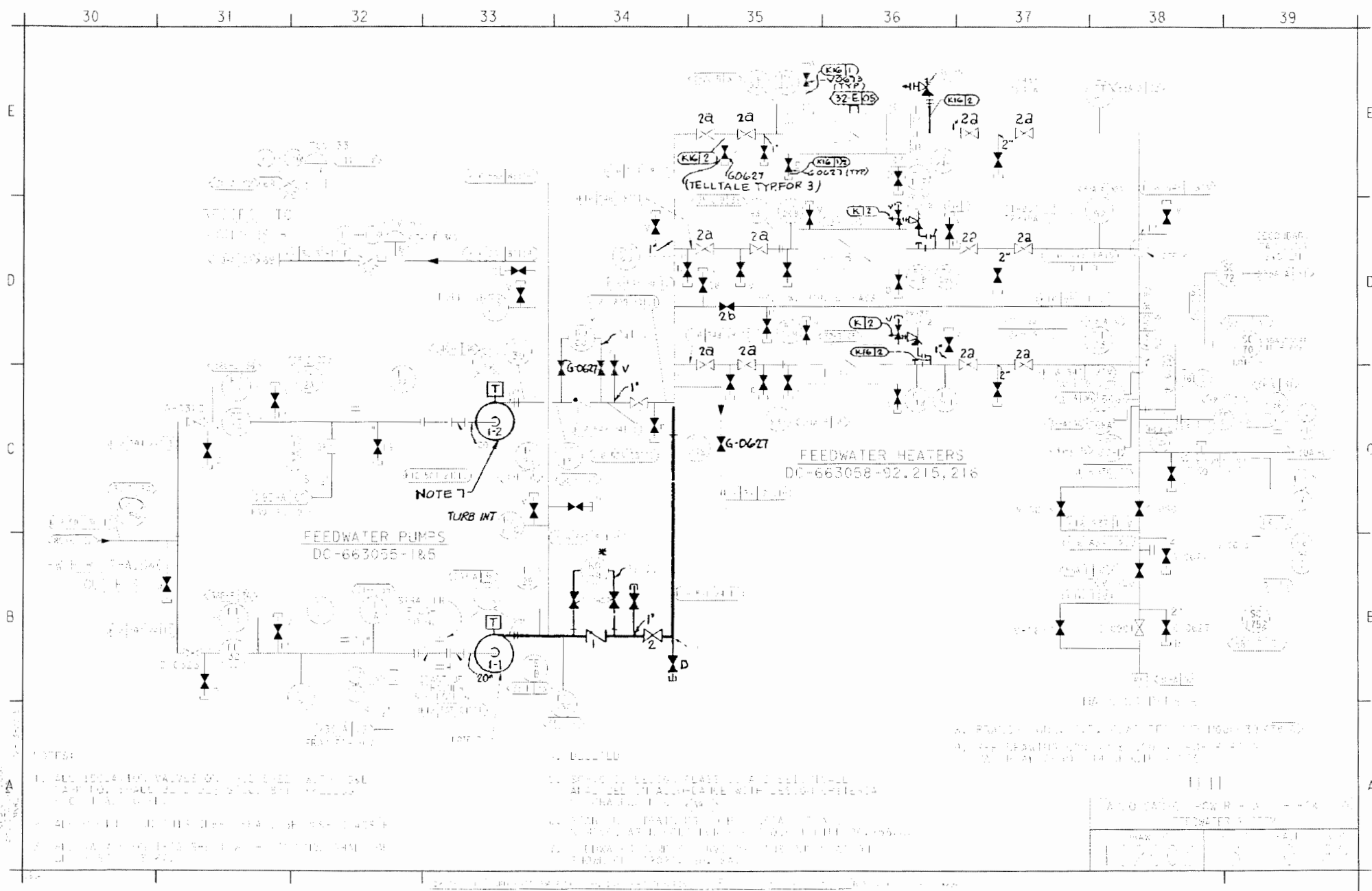
The sensitive information was identified due to meeting the NRC's criteria on sensitive information, as specified in SECY-04-0191, "Withholding Sensitive Unclassified Information Concerning Nuclear Power Reactors from Public Disclosure," dated October 19, 2004, ADAMS ML042310663, as modified by the NRC Commissioners Staff Requirements Memorandum on SECY-04-0191, dated November 9, 2004, ADAMS ML043140175.

The following information was considered sensitive by NRC staff:

<b>Figure</b>	<b>Drawing</b>
1.2-9	57722-1
1.2-8	57723-1
1.2-7	57724-1
1.2-5	57726-1
1.2-24	57731-1
1.2-11	500971-1
1.2-30	500973-1
9.5F-1	515562-1
9.5F-11	515572-1
7.7-24	521123-1

Any other material that is listed as "deleted" was deleted by the licensee as part of their continuous update process for the FSARU.



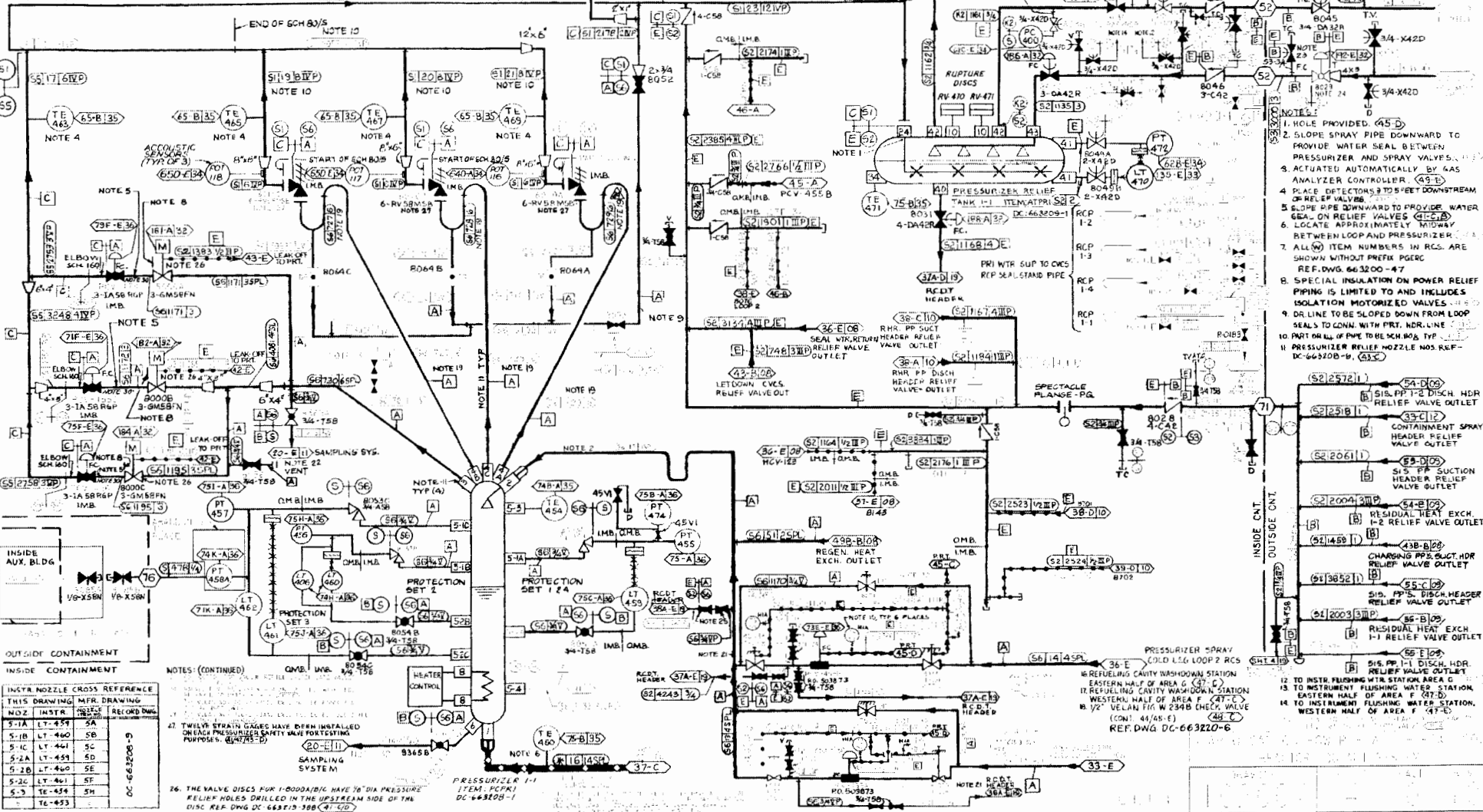


## LEGEND:

- VALVE LEAK-OFF  
 —○— PIPING DESIGNED TO THE 1955 EDITION  
 OF ANSI B31.1 AND APPLICABLE  
 NUCLEAR CODE CASES.

## NOTES: (CONTINUED)

23. 3/4"-X42D, ITT VALVE NO. 2471-10-M-3/4" DWG NO. 663219-267,  
 STOCK CODE 42-2543, FOR TEST CONNECTION. (48-E)  
 24. 3"-150#, ITT BALL VALVE W/ BELLIS CB-415-SRGO ACTUATOR, 1-8000B  
 DWG NO. DC 6006473-236, STOCK CODE 34-6447, TO 1-8000B (48-D)  
 25. ANCHOR/DARLING 7/8"-1875GB, DC 6006473-37, TO 1-8000B (44-B)



INSTR. NOZZLE CROSS REFERENCE	THIS DRAWING	MFR. DRAWING	RECORD NO.
5-1A	LT-437	5A	663219-20
5-1B	LT-440	5B	
5-1C	LT-441	5C	
5-1A	LT-441	5D	
5-1B	LT-440	5E	
5-1C	LT-441	5F	
5-1D	LT-441	5H	
5-1E	LT-441	5H	
5-1F	LT-441	5H	

## NOTES: (CONT'D FROM 47-A)

19. LOOP SEALS ARE INSULATED FROM  
 PRESSURIZER NOZZLES TO SAFETY VALVES NOTE 22  
 WITH REFLECTIVE (44-A)

## 20. PRIMARY WTR FOR MAINTENANCE

- WASH DOWN AREA (47-C)

21. REMOTE OPERATORS DISCONNECTED  
 AND ABANDONED IN-PLACE (45-A)

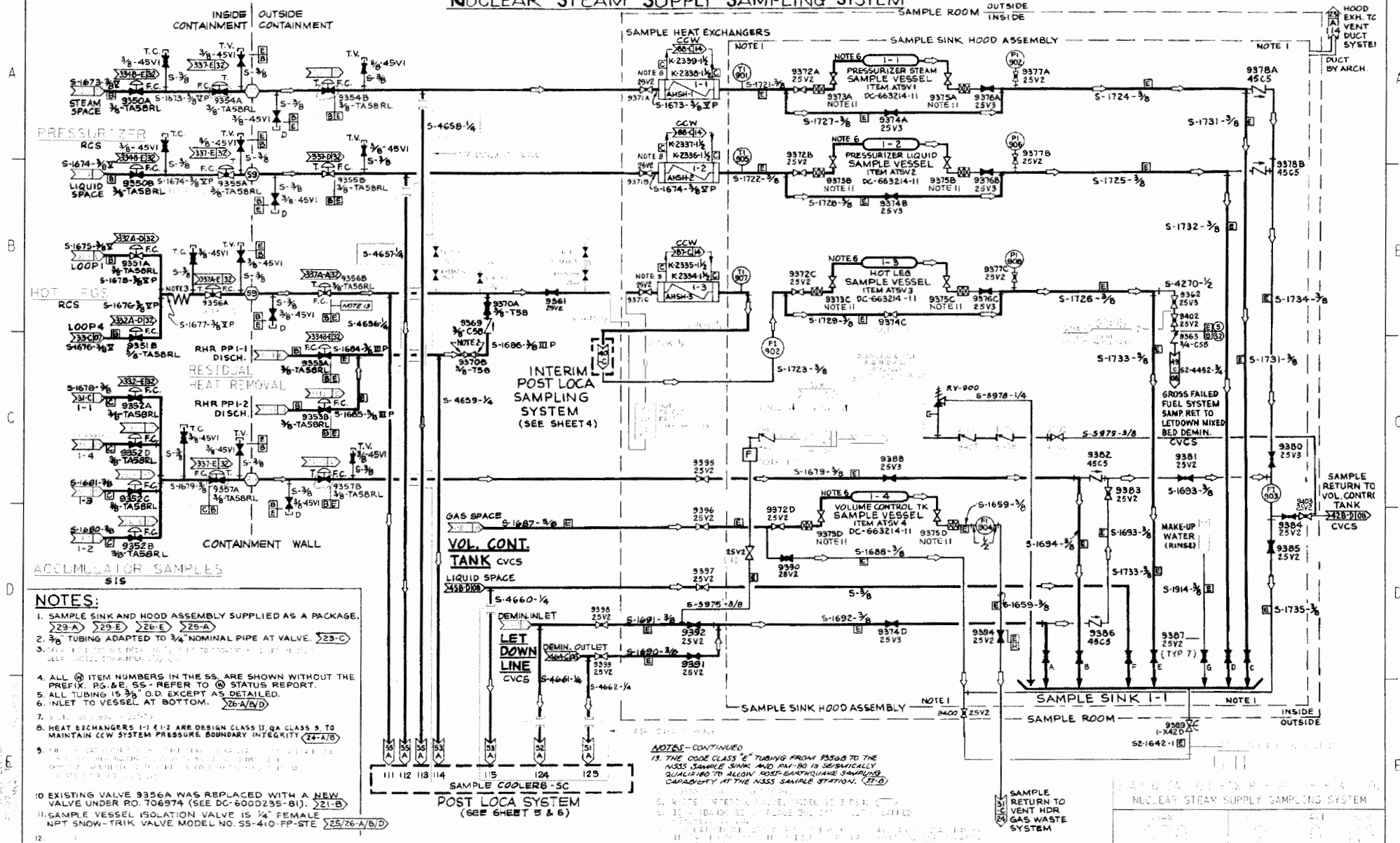
22. SEE SHEET 7A FOR MV LVLIS (41-E)

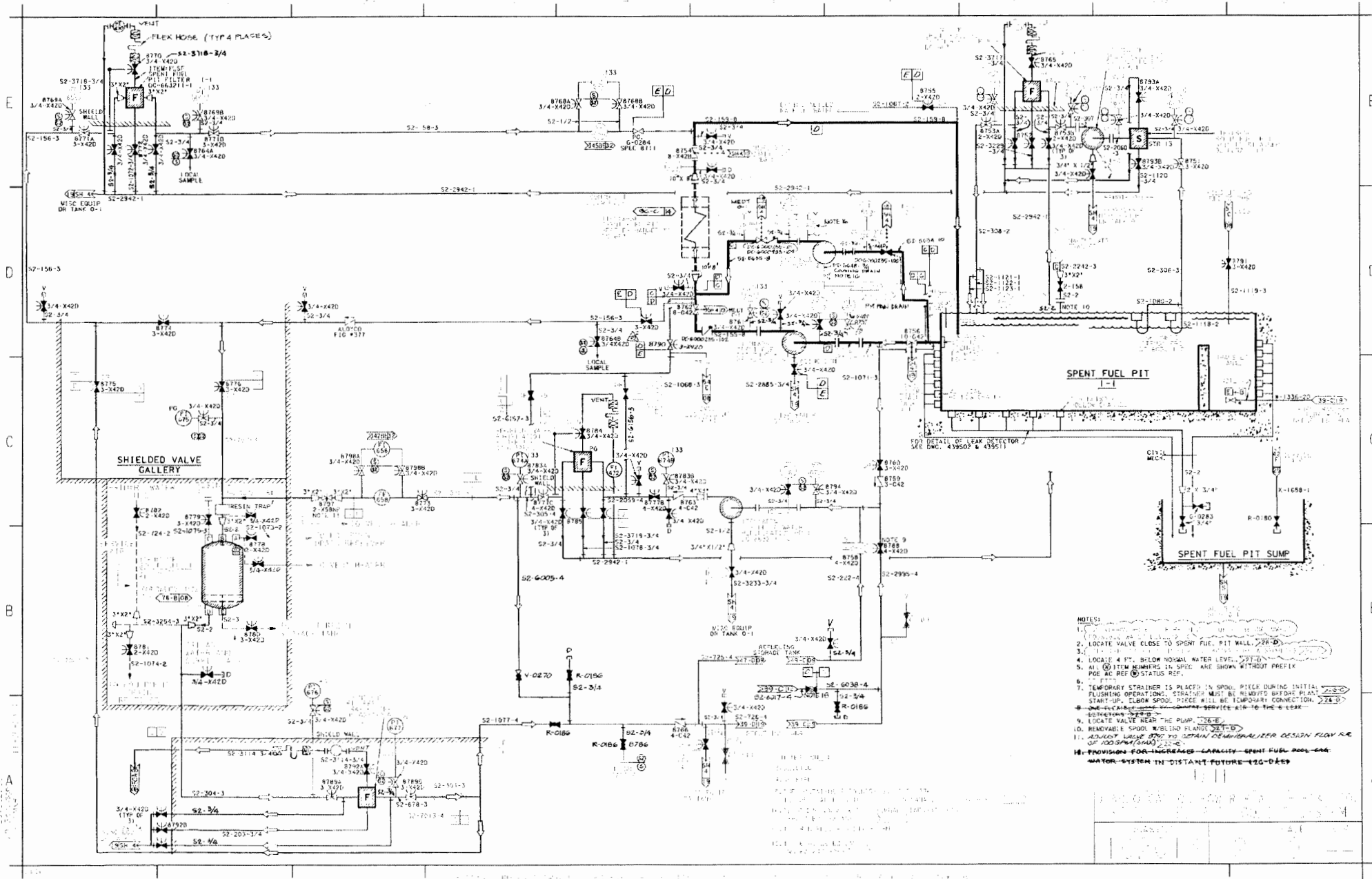
23. ALIGNMENT FOR OPERATION (45-B, 44-D, 44-E)

1. HOLE PROVIDED (45-D)  
 2. SLOPE SPRAY PIPE DOWNWARD TO  
 PROVIDE WATER SEAL BETWEEN  
 PRESSURIZER AND SPRAY VALVES.  
 3. ACTUATED AUTOMATICALLY BY GAS  
 ANALYZER CONTROLLER (49-B)  
 4. PLACE DETECTORS 3 TO 5 FEET DOWNSTREAM  
 OF RELIEF VALVES  
 5. SLOPE PIPE DOWNWARD TO PROVIDE WATER  
 SEAL ON RELIEF VALVES (45-D)  
 6. LOCATE APPROXIMATELY MIDWAY  
 BETWEEN LOOP AND PRESSURIZER  
 7. ALL (M) ITEM NUMBERS IN RCS ARE  
 SHOWN WITHOUT PREFIX PSCG  
 REF. DWG. 663200-47  
 8. SPECIAL INSULATION ON POWER RELIEF  
 PIPING IS LIMITED TO AND INCLUDES  
 ISOLATION MOTORIZED VALVES  
 9. DR LINE TO BE SLOPED DOWN FROM LOOP  
 SEALS TO CONN. WITH PRT. HDR. LINE  
 10. PORTION ALL OF PIPE TO BE MCH. W. TYP.  
 11. PRESSURIZER RELIEF NOZZLE NOS. RLF-  
 DC 663200-49, (45-C)

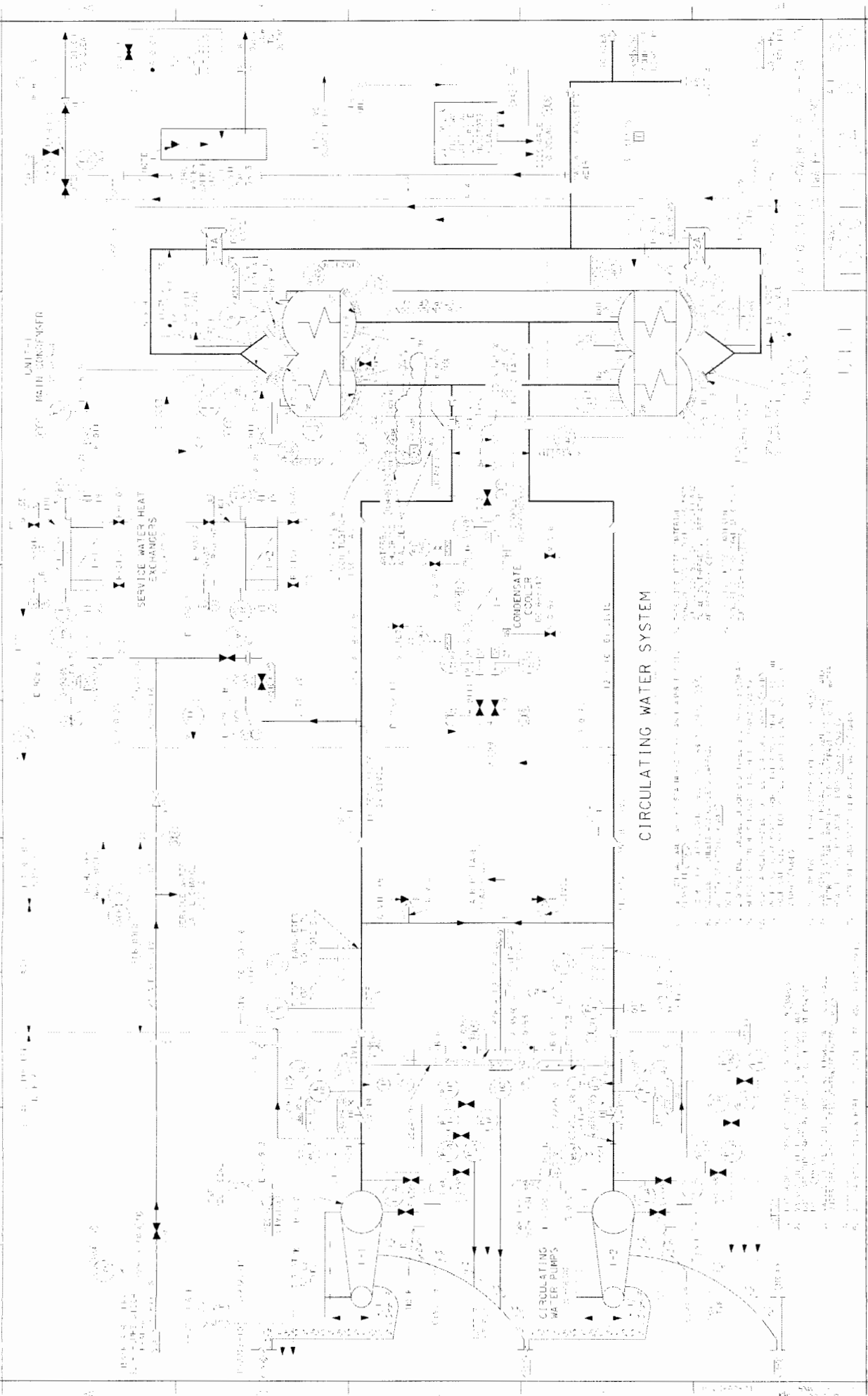
12. TO INSTR. FLUSHING WTR STATION AREA G  
 13. TO INSTR. FLUSHING WTR STATION  
 EASTERN HALF OF AREA F (47-D)  
 14. TO INSTR. FLUSHING WTR STATION,  
 WESTERN HALF OF AREA F (47-E)

PRESSURIZER SPRAY  
 (OLD L.S.G. LOOP 2 RCS  
 REFUELING CAVITY WASHDOWN STATION  
 EASTERN HALF OF AREA G (47-C)  
 IT REFUELING CAVITY WASHDOWN STATION  
 WESTERN HALF OF AREA F (47-E)  
 (CON. 44/45-E)  
 REF. DWG DC-663210-6





30A 31A 32A 33A 34A 35A 36A 37A 38A 39A



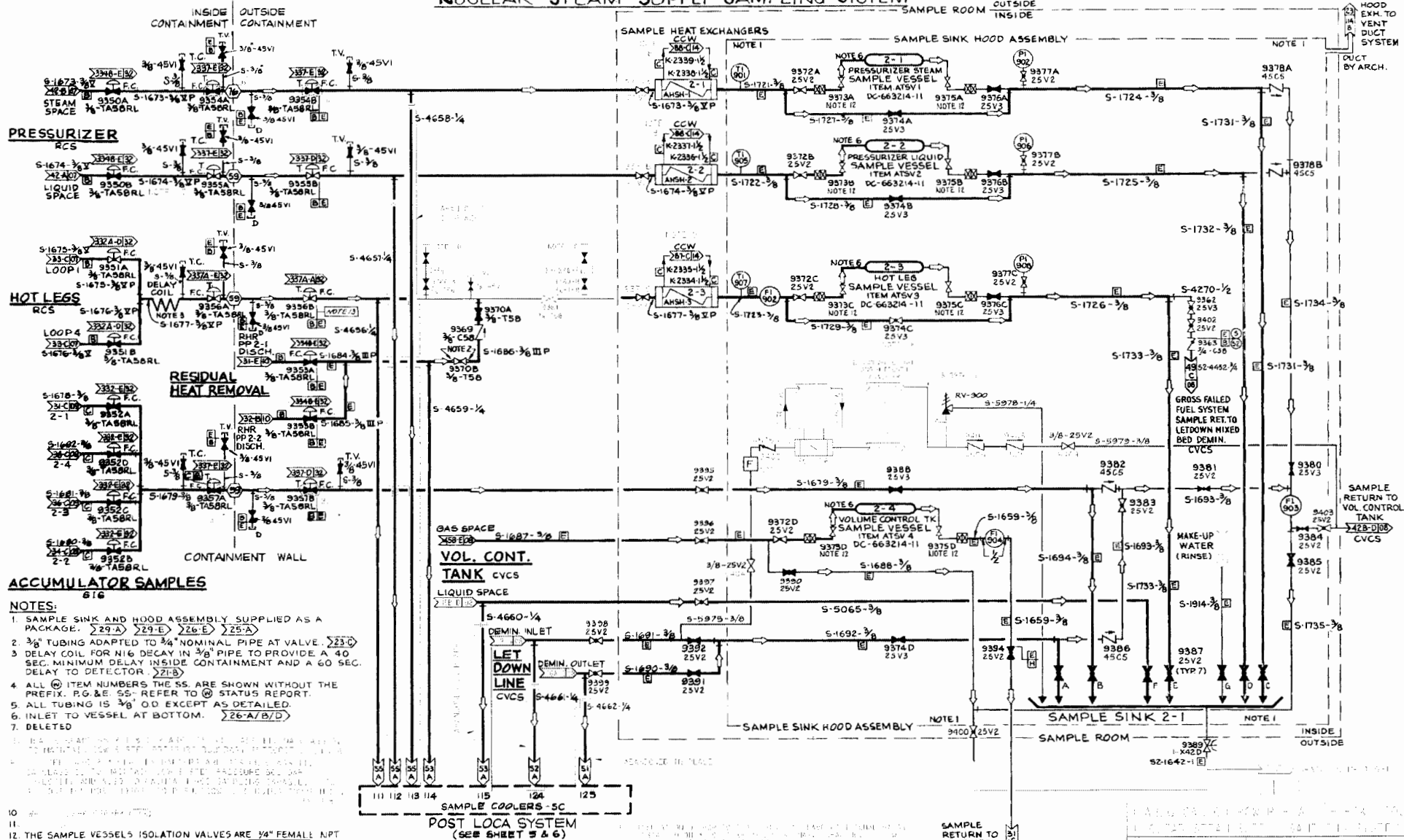
CIRCULATING WATER SYSTEM

1. This system is designed to provide cooling water for the Unit 1-1 condenser and other heat exchangers in the plant. The system consists of two main loops, each driven by a circulating water pump (1-1 and 1-2). The pumps draw water from a common source (likely a river or lake) and circulate it through the heat exchangers, where it is cooled by the process fluid. The cooled water then returns to the source. The system is equipped with various valves to control flow and pressure, and a condensate cooler to pre-heat the feedwater. The design flow rate is 10,000 GPM at 150 PSI. The system is capable of operating at a temperature range of 100°F to 180°F. The water quality is maintained by a filtration system and a chemical dosing system to prevent scaling and corrosion. The system is monitored and controlled by a PLC (Programmable Logic Controller) which provides real-time data on flow, pressure, and temperature. The system is designed for a life span of 20 years.

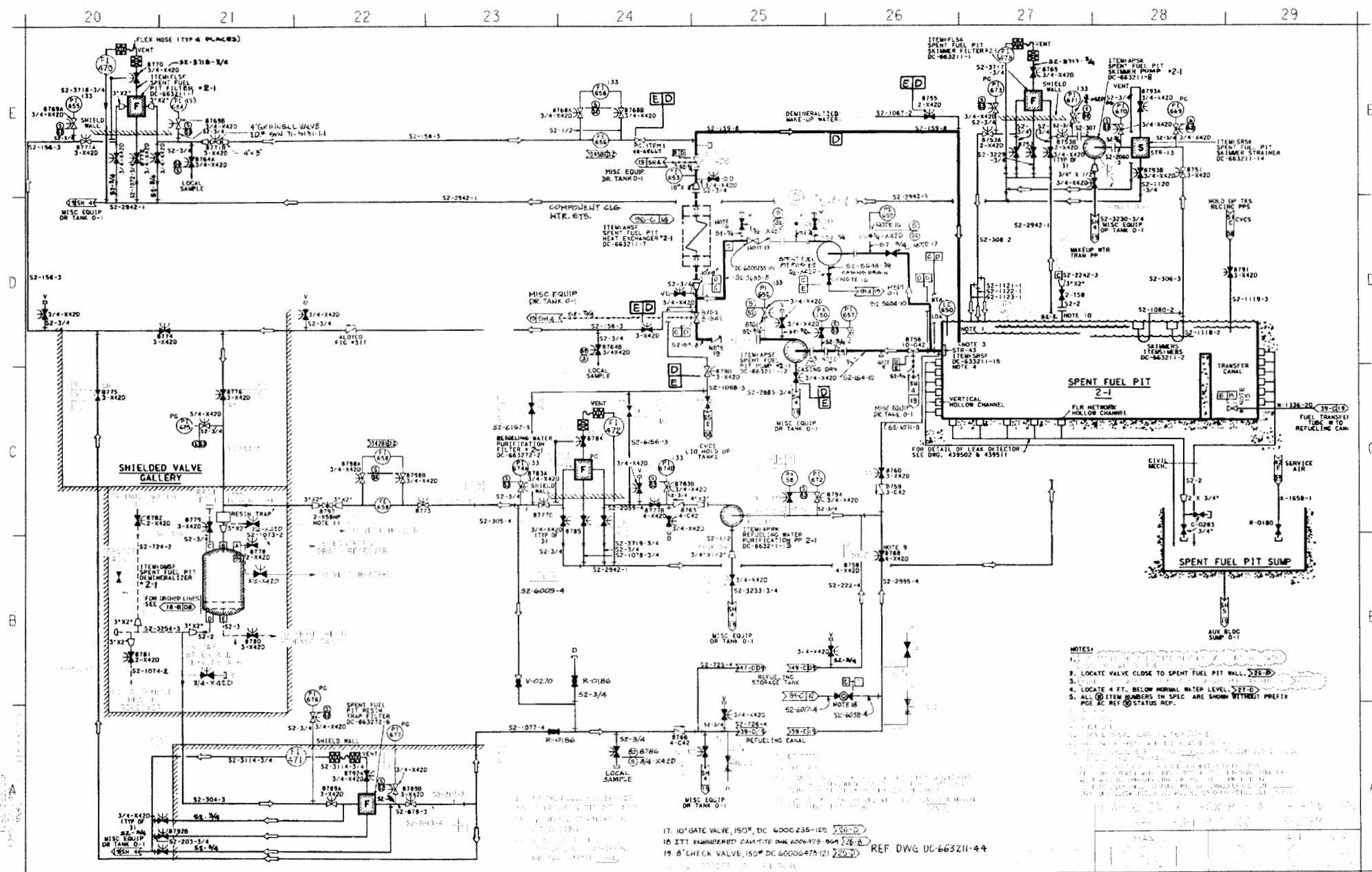




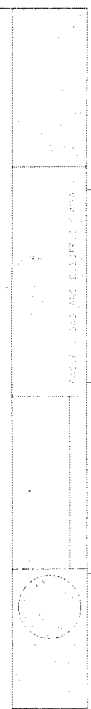
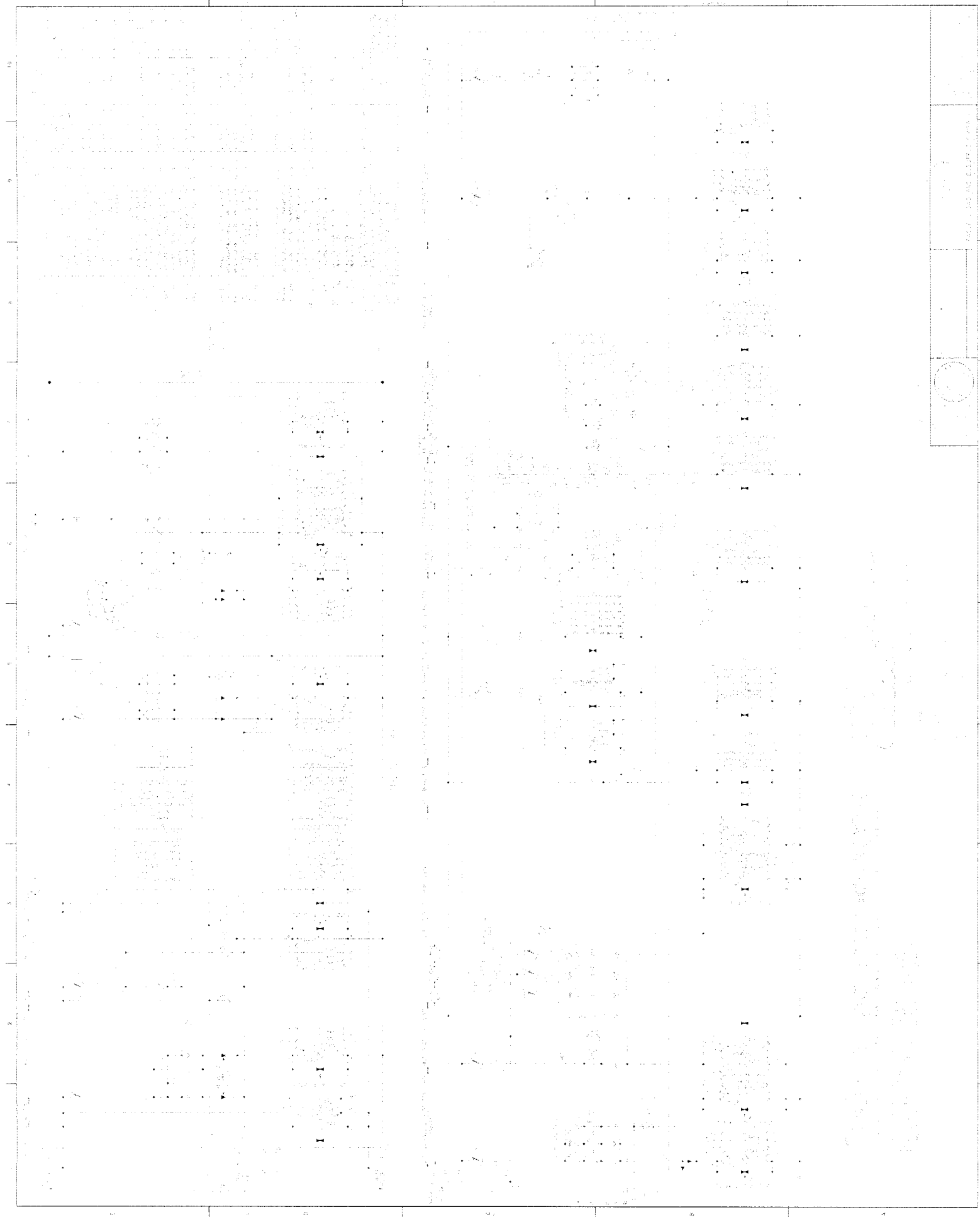
## NUCLEAR STEAM SUPPLY SAMPLING SYSTEM

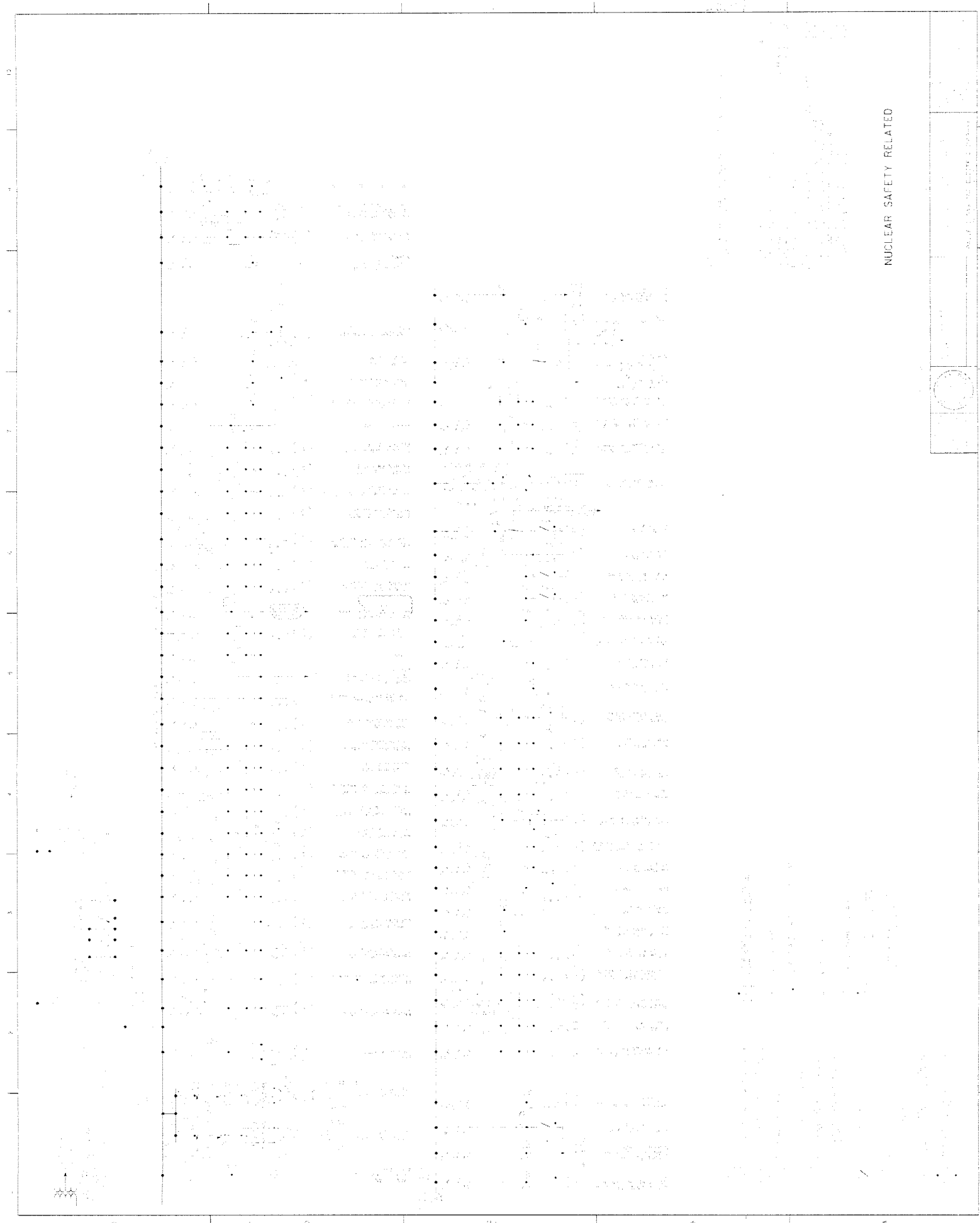


SAMPLE  
RETURN TO  
VENT HDR  
GAS WASTE  
SYSTEM



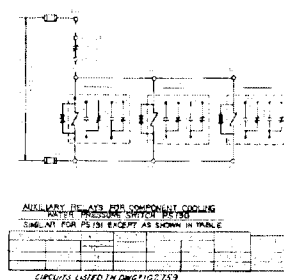
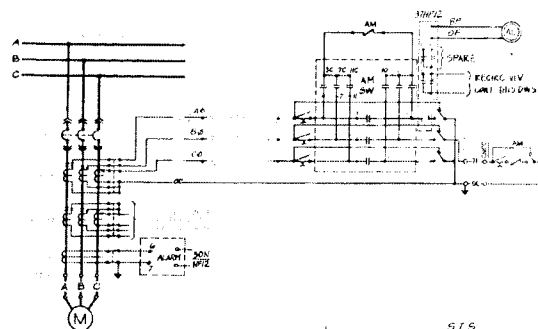






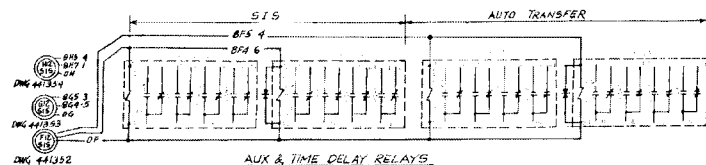
NUCLEAR SAFETY RELATED

DATE	10/10/50
TIME	10:00
BY	J. R. ...
FOR	...
REMARKS	...



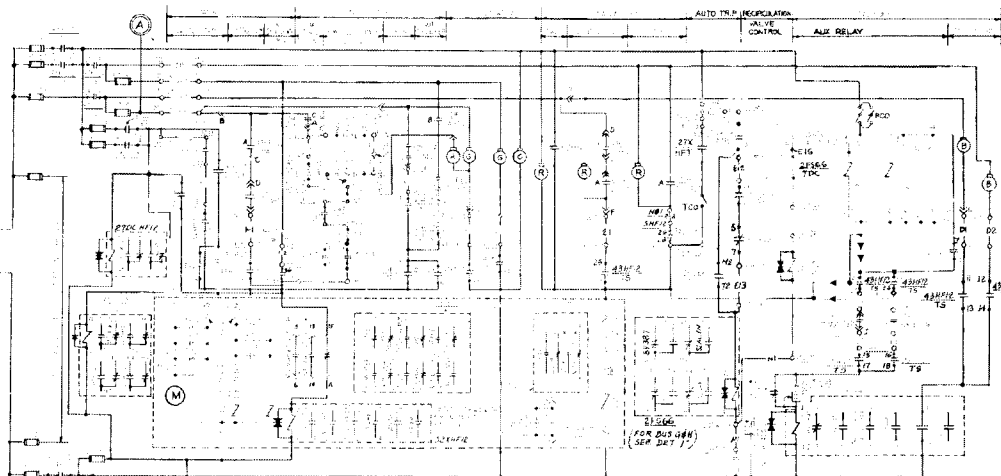
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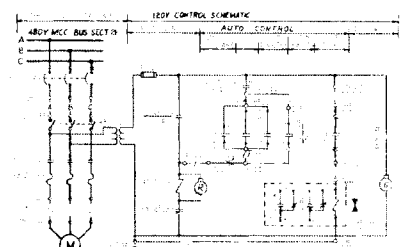
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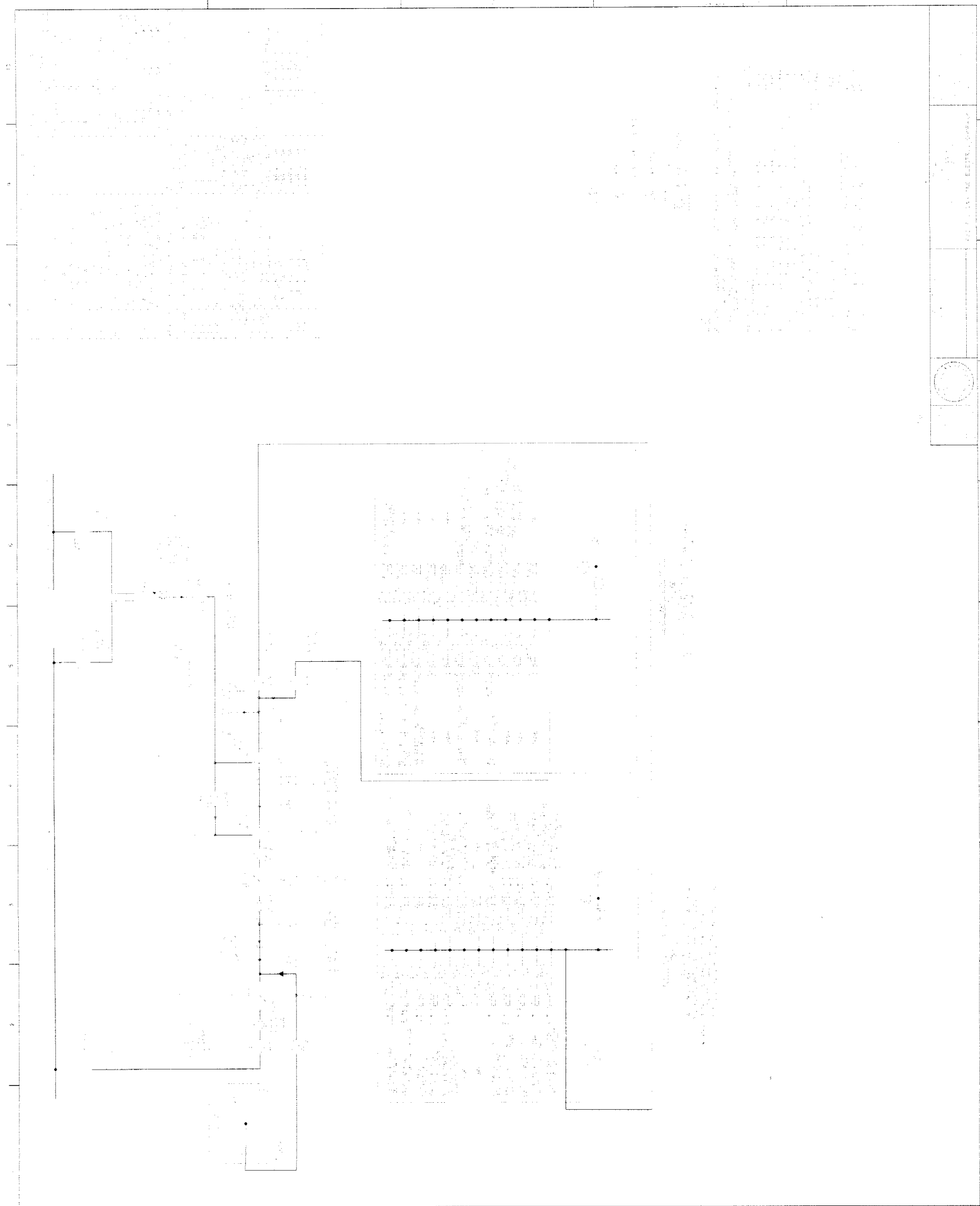
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MOTOR	MOTOR LOC	CAT	BUS SECT	LG OR PRESSURE	ALARM CIRCUT NO
M1	125V DC	1	1	1	1
M2	125V DC	2	2	2	2
M3	125V DC	3	3	3	3
M4	125V DC	4	4	4	4
M5	125V DC	5	5	5	5
M6	125V DC	6	6	6	6
M7	125V DC	7	7	7	7
M8	125V DC	8	8	8	8
M9	125V DC	9	9	9	9
M10	125V DC	10	10	10	10
M11	125V DC	11	11	11	11
M12	125V DC	12	12	12	12
M13	125V DC	13	13	13	13
M14	125V DC	14	14	14	14
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M22	125V DC	22	22	22	22
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COMPONENT COOLING WATER PUMP NO. 21 CIRCUT NO. F12H00

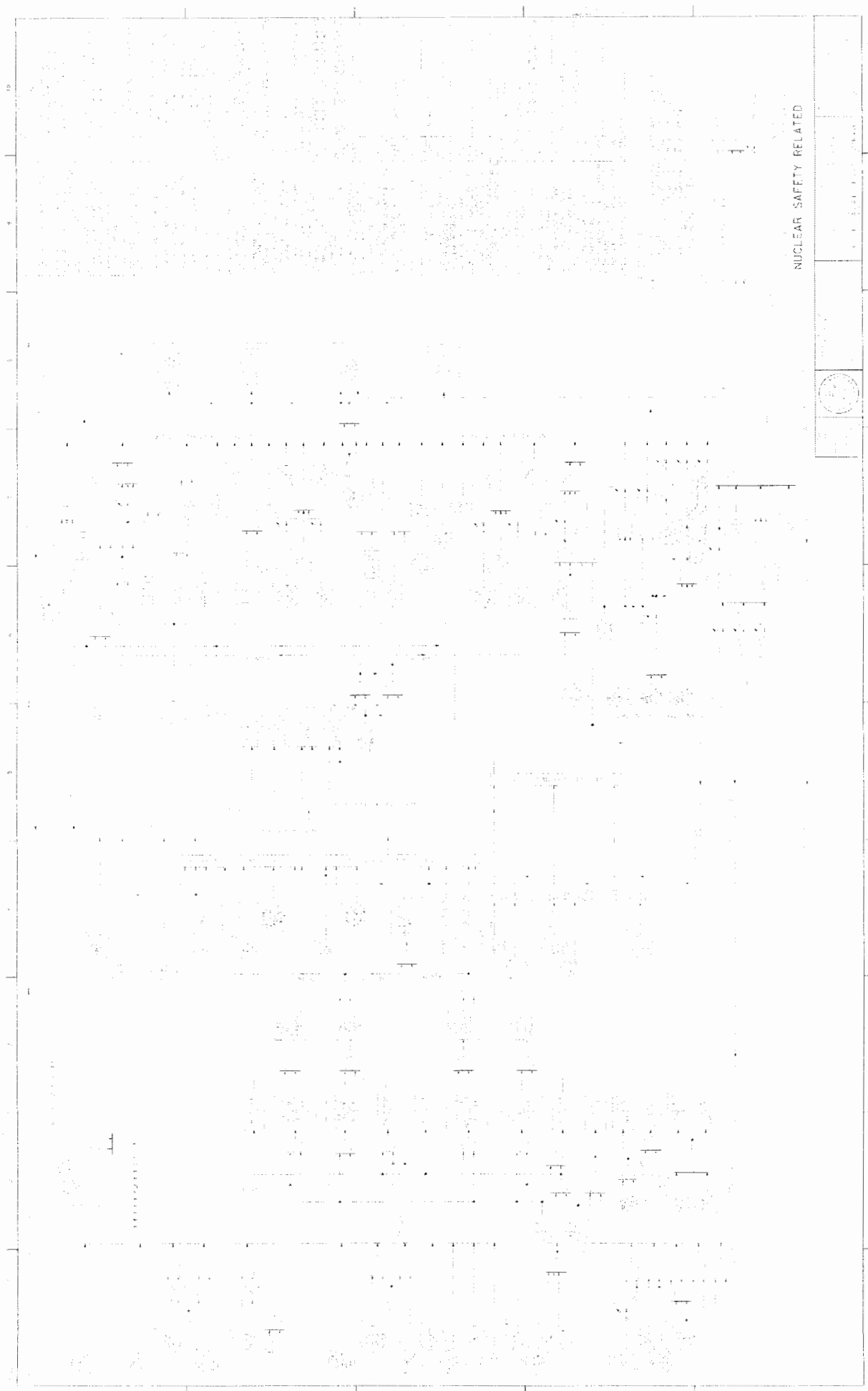
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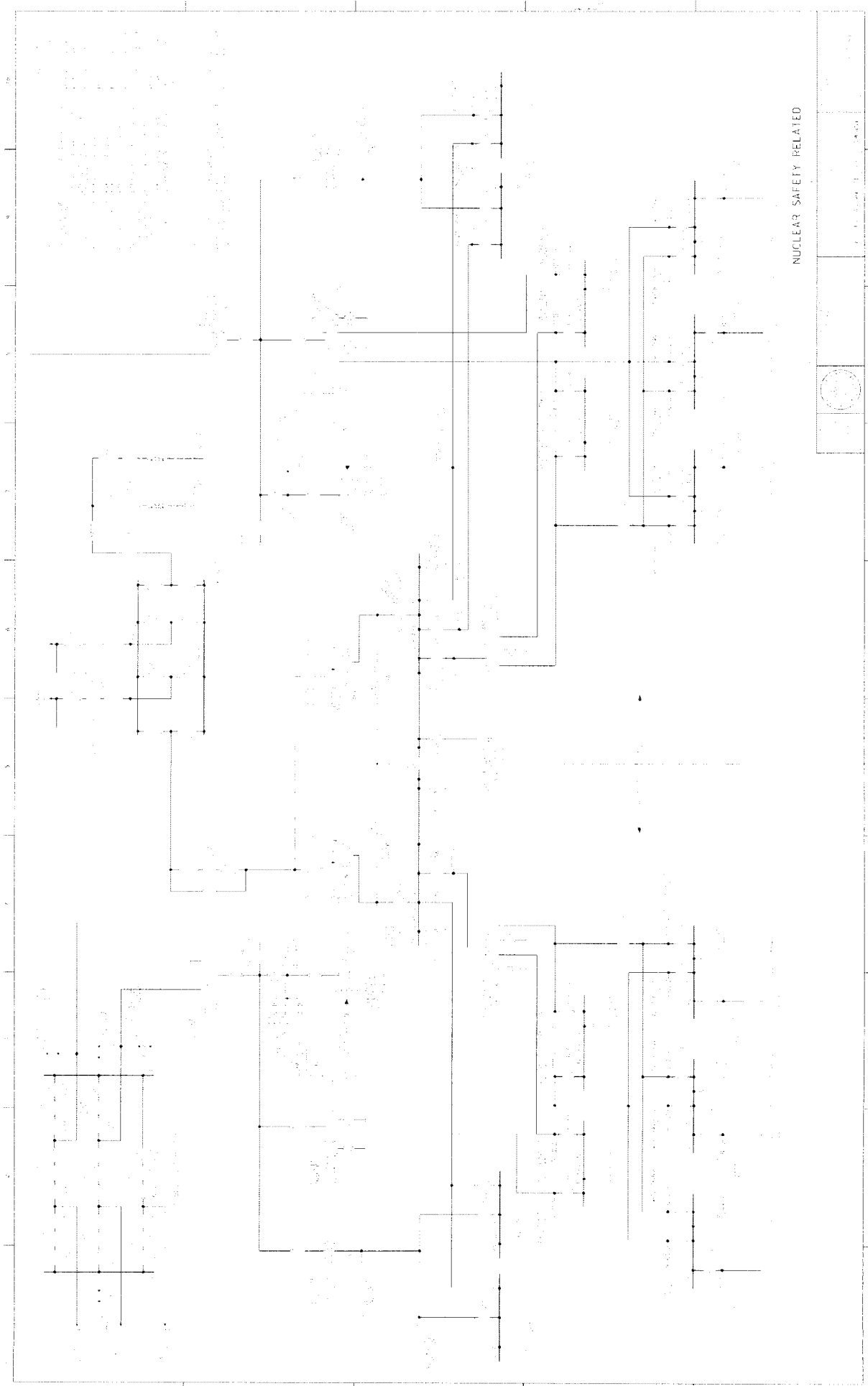


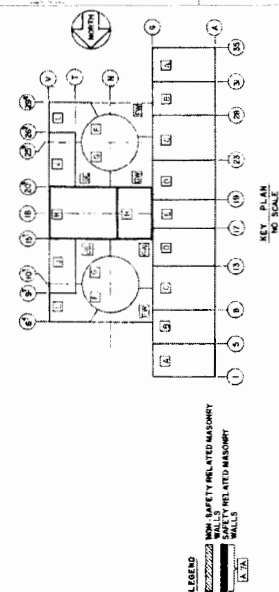
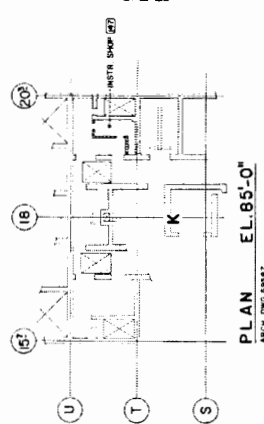
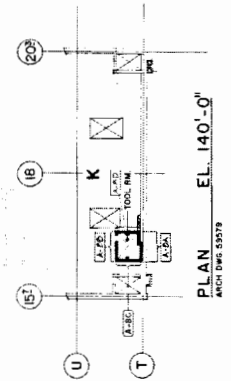
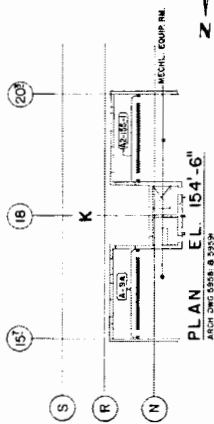
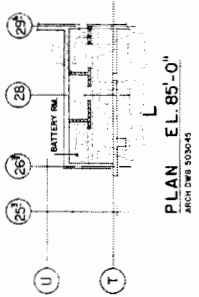
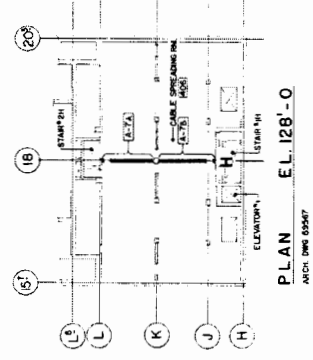
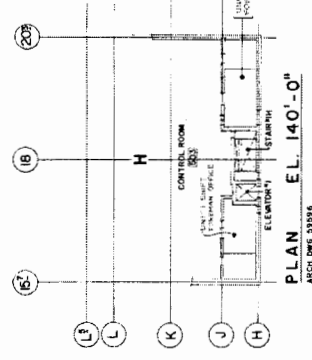
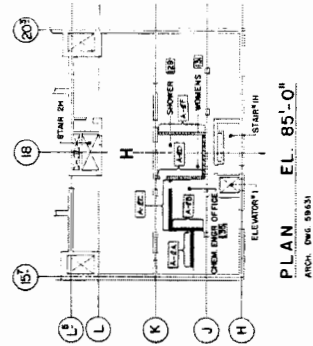
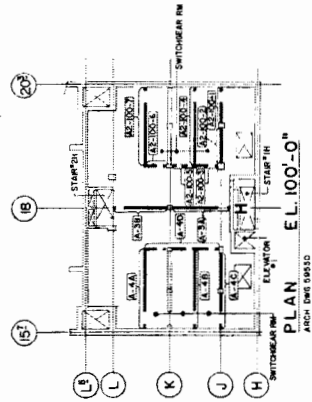
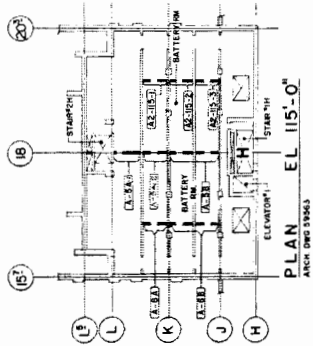




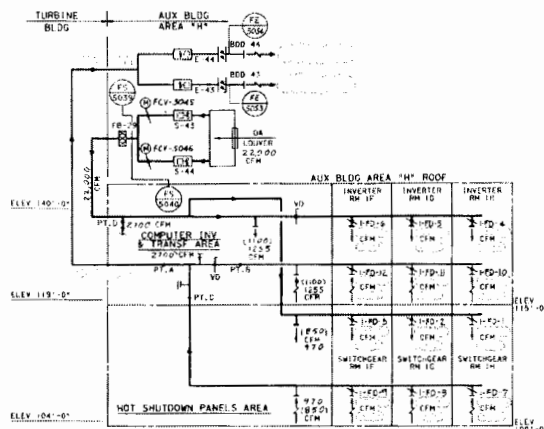
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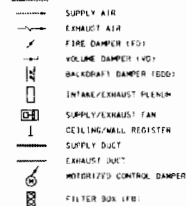


LEGEND  
NON SAFETY-RELATED MAJORITY  
WALLS  
SAFETY-RELATED MAJORITY  
WALLS



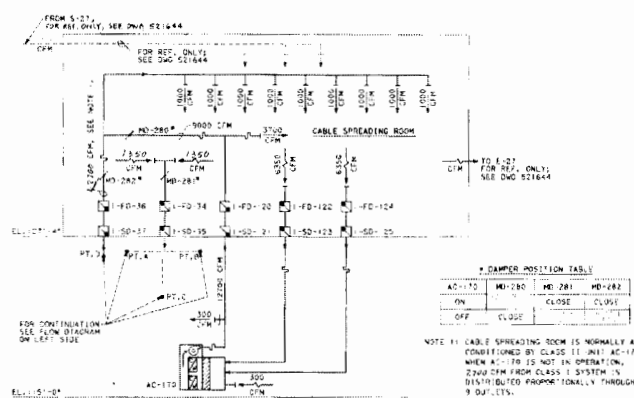
FLOW DIAGRAM FOR INVERTER ROOMS & 480V SWITCHGEAR ROOMS IN AUXILIARY BLDG (UNIT 1)  
(SCHEMATIC ONLY)

LEGEND:

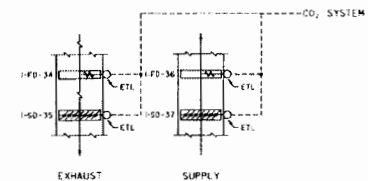


NOTES:

1. THE CFM FIGURES WITHOUT PARENTHESES ARE DESIGN VALUES. FOR ACTUAL VALUES, SEE AIR BALANCE REPORT ON DWG. 51645, SHEET 1.
2. CFMS IN PARENTHESES ARE THOSE RESULTING FROM 2700 CFM BEING DIVERTED TO THE CABLE SPREADING ROOM UPON FAILURE OF A/C UNIT AC-170.



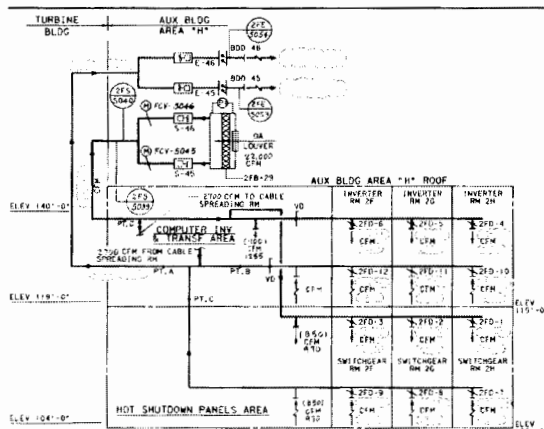
FLOW DIAGRAM FOR CABLE SPREADING ROOM (UNIT 1)  
(SCHEMATIC ONLY)



FIRE & SMOKE DAMPER CONTROLS (UNIT 1)

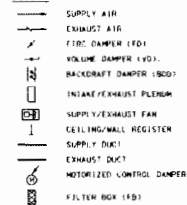
NOTES:

1. FOR LOCATION OF DAMPERS, SEE DWG. 51644.
  2. FOR ELECTRICAL SCHEMATIC DIAGRAM AND LOCATION DRAWINGS, SEE DWG. 538713 AND 57612.
- OPERATION PROCEDURES:
1. A SIGNAL FROM THE CO<sub>2</sub> SYSTEM WILL CLOSE THE FIRE DAMPERS AND SMOKE DAMPERS IN THE SUPPLY AND EXHAUST DUCT. NO AIR WILL BE SUPPLIED/EXHAUSTED INTO/FROM THE CABLE SPREADING ROOM.
  2. RESETTING OF THE FIRE AND SMOKE DAMPERS WILL BE DONE MANUALLY.



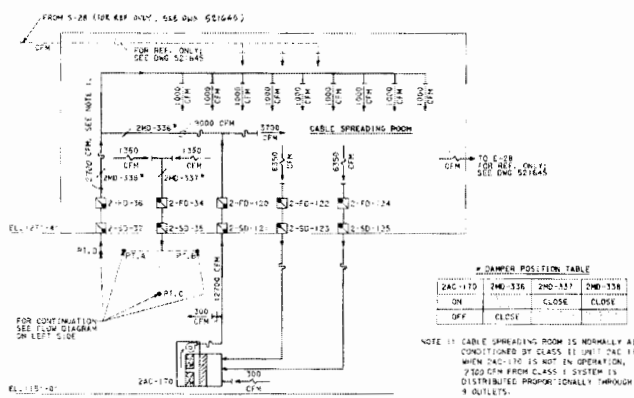
FLOW DIAGRAM FOR INVERTER ROOMS & 480V SWITCHGEAR ROOMS IN AUXILIARY BLDG (UNIT 2)  
(SCHEMATIC ONLY)

LEGEND:

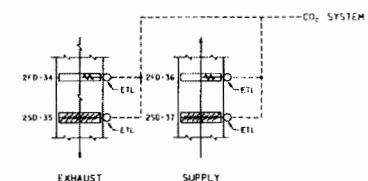


NOTES:

1. THE CFM FIGURES WITHOUT PARENTHESES ARE DESIGN VALUES. FOR ACTUAL VALUES, SEE AIR BALANCE REPORT ON DWG. 51645, SHEET 1.
2. CFMS IN PARENTHESES ARE THOSE RESULTING FROM 2700 CFM BEING DIVERTED TO THE CABLE SPREADING ROOM UPON FAILURE OF A/C UNIT 24C-170.



FLOW DIAGRAM FOR CABLE SPREADING ROOM (UNIT 2)  
(SCHEMATIC ONLY)



FIRE & SMOKE DAMPER CONTROLS (UNIT 2)

NOTES:

1. FOR LOCATION OF DAMPERS, SEE DWG. 51644.
  2. FOR ELECTRICAL SCHEMATIC DIAGRAM AND LOCATION DRAWINGS, SEE DWG. 538713 AND 57612.
- OPERATION PROCEDURES:
1. A SIGNAL FROM THE CO<sub>2</sub> SYSTEM WILL CLOSE THE FIRE DAMPERS AND SMOKE DAMPERS IN THE SUPPLY AND EXHAUST DUCT. NO AIR WILL BE SUPPLIED/EXHAUSTED INTO/FROM THE CABLE SPREADING ROOM.
  2. RESETTING OF THE FIRE AND SMOKE DAMPERS WILL BE DONE MANUALLY.