

Appendix 9B. Figures

Figure 9-1. Fuel Building - General Arrangement

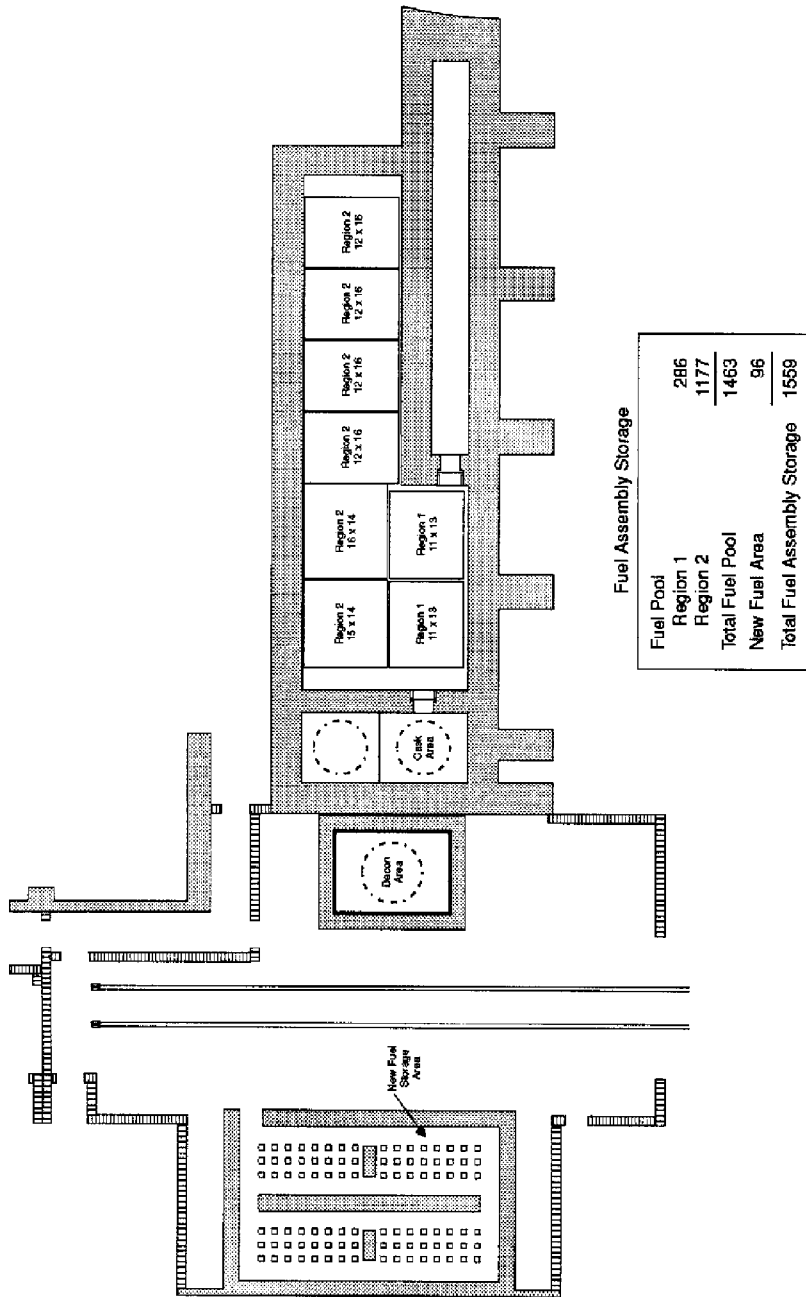


Figure 9-2. Fuel Building Section

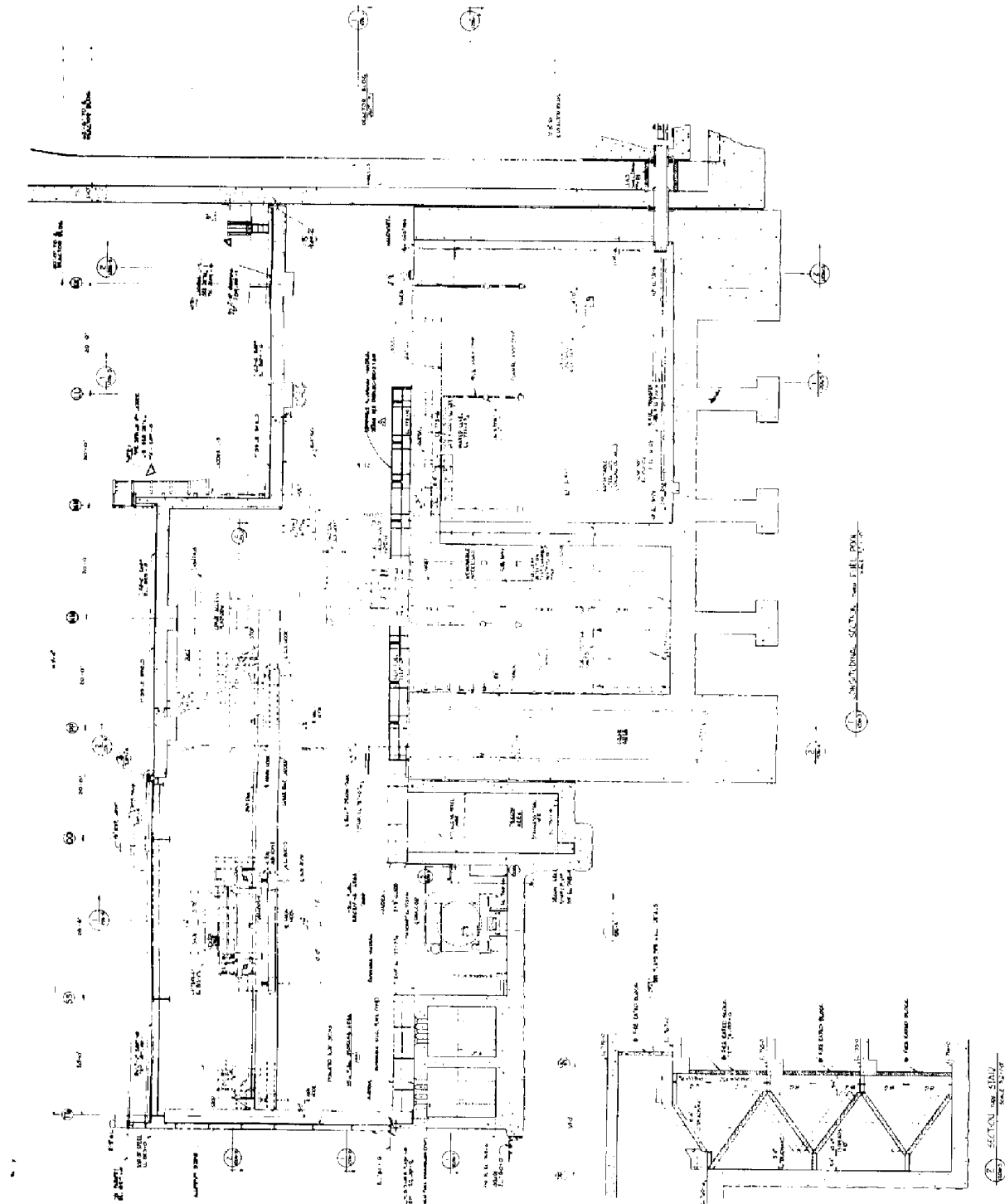
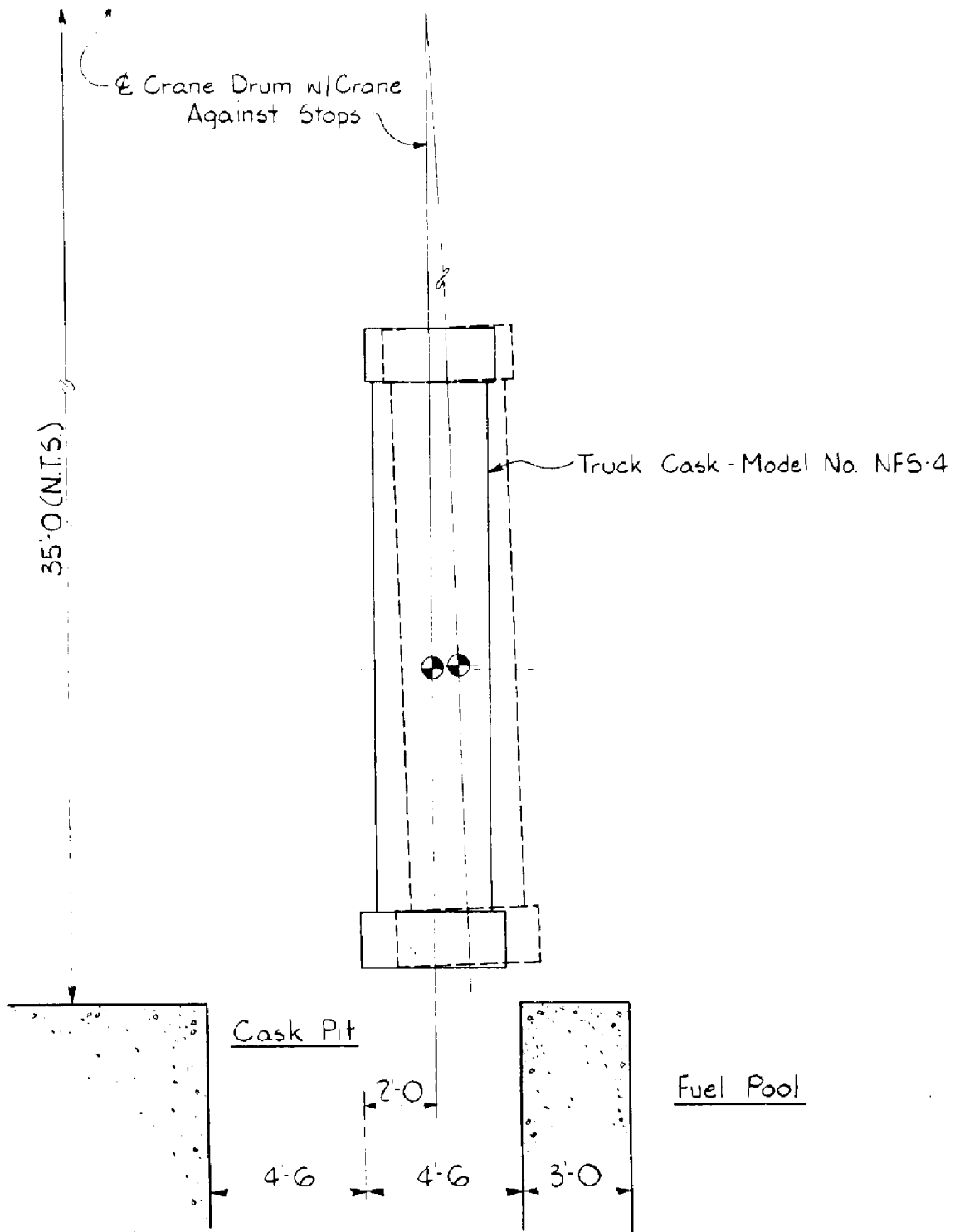
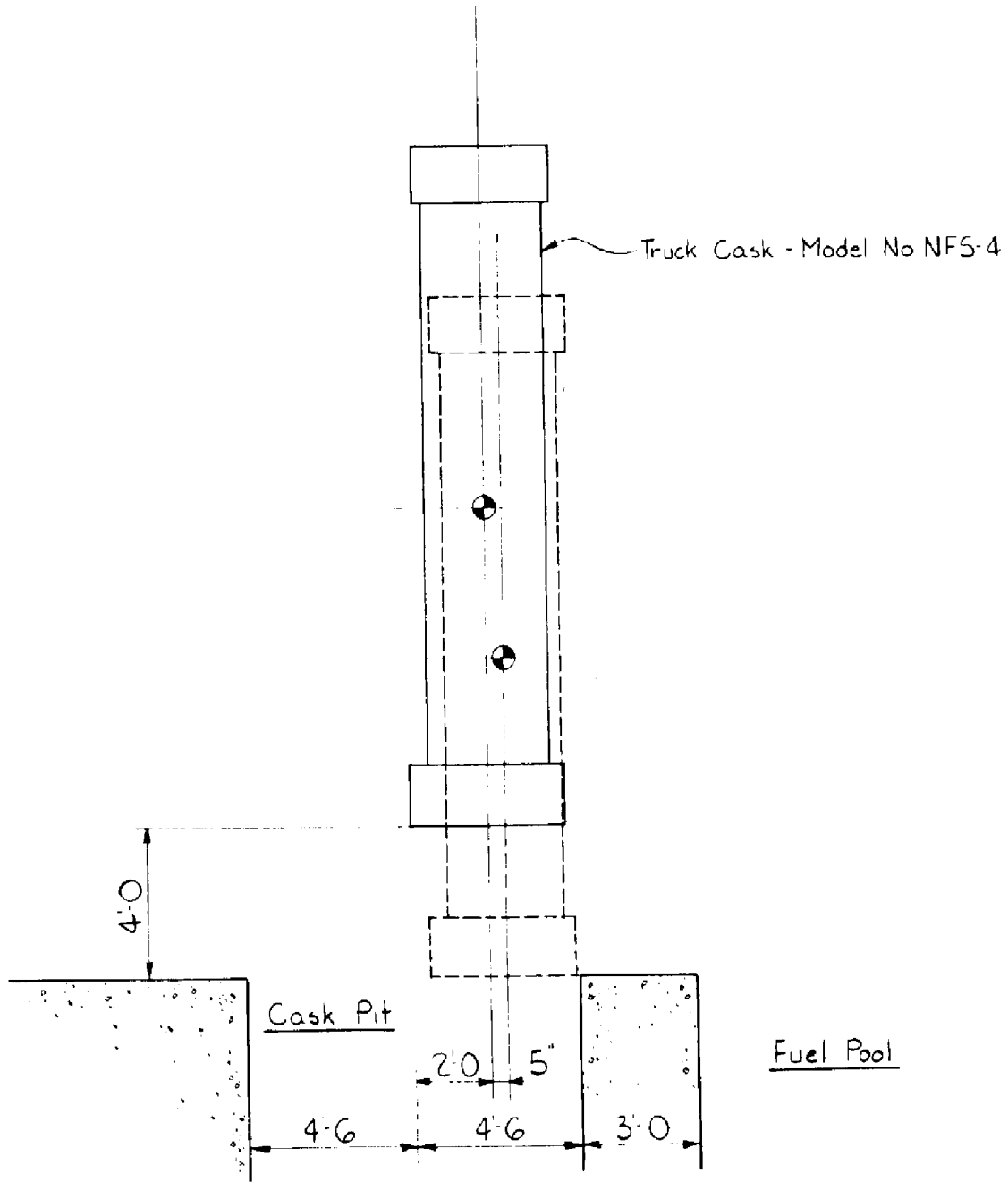


Figure 9-3. Cask Drop Evaluation





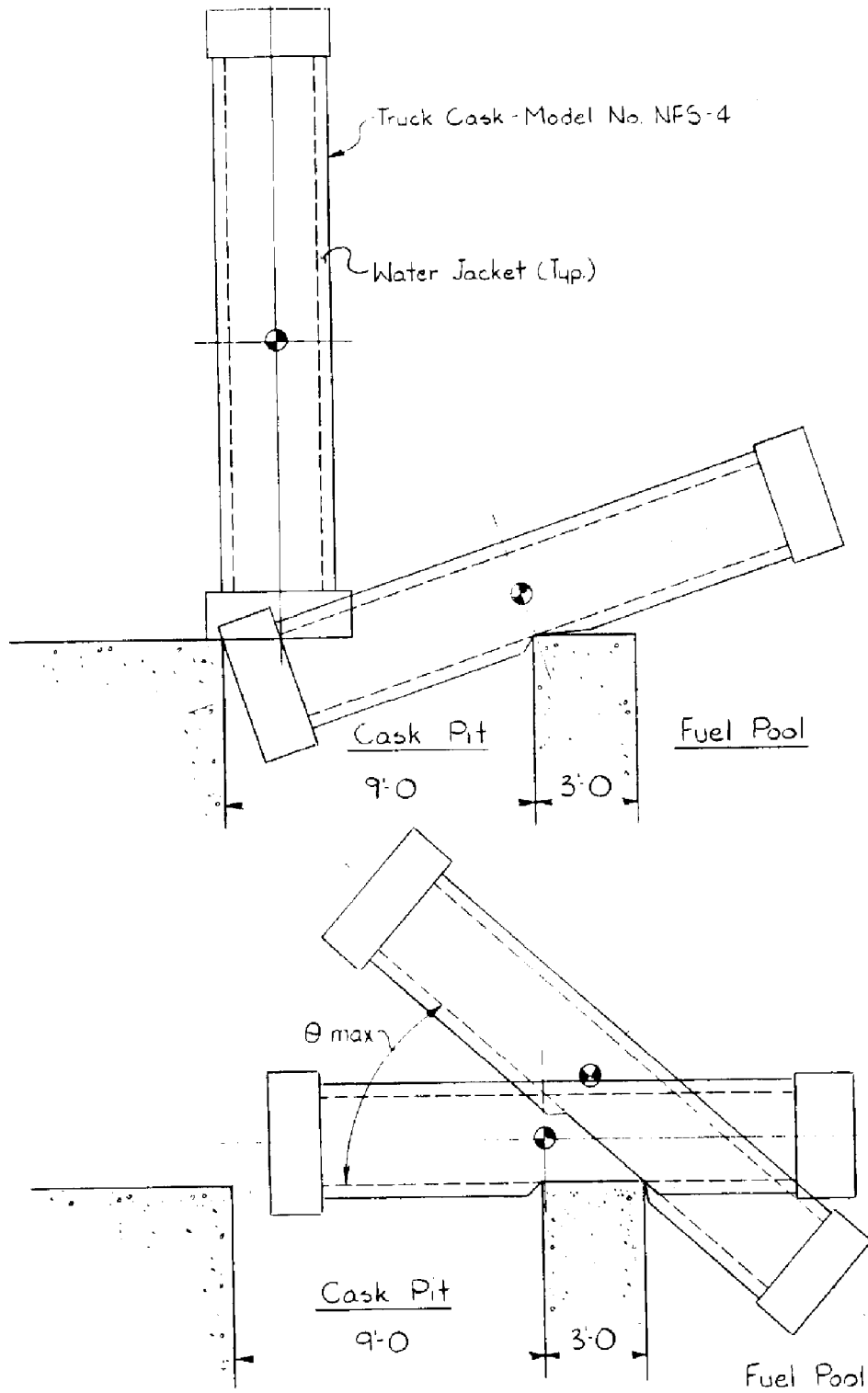


Figure 9-4. Cask Drop Evaluation

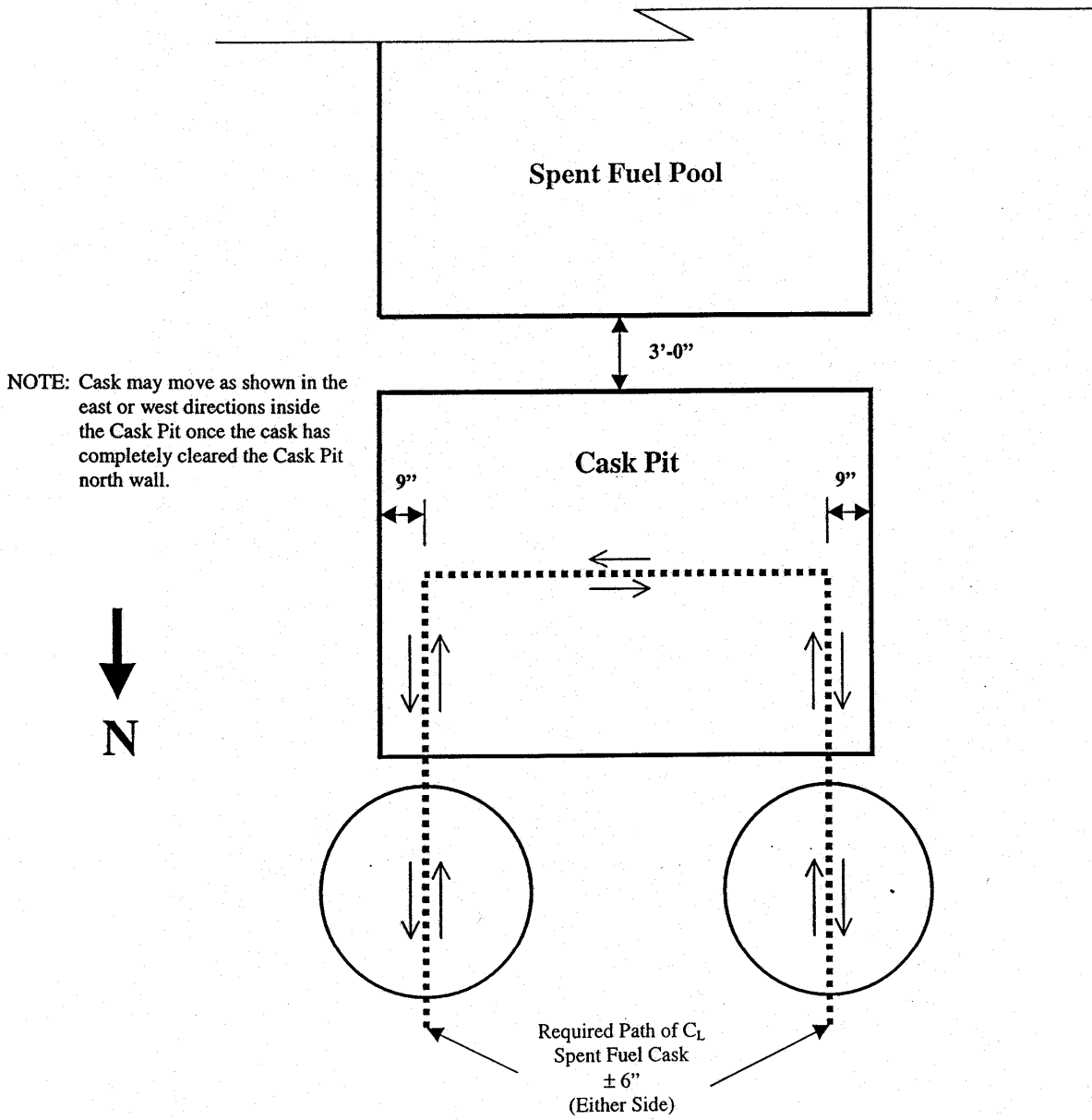


Figure 9-5. Tornado Missile Study

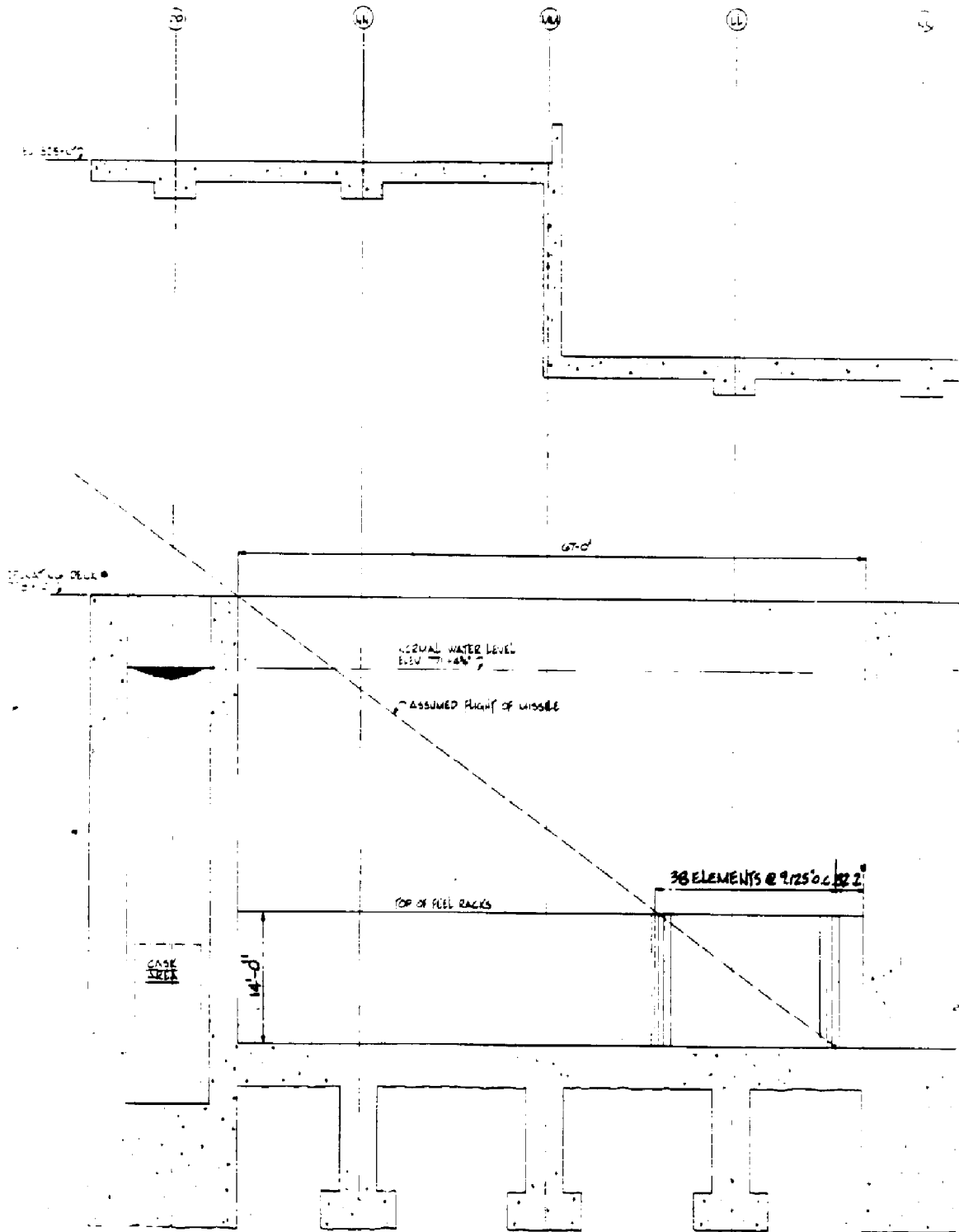


Figure 9-6. Spent Fuel Pool Arrangement Unit 1

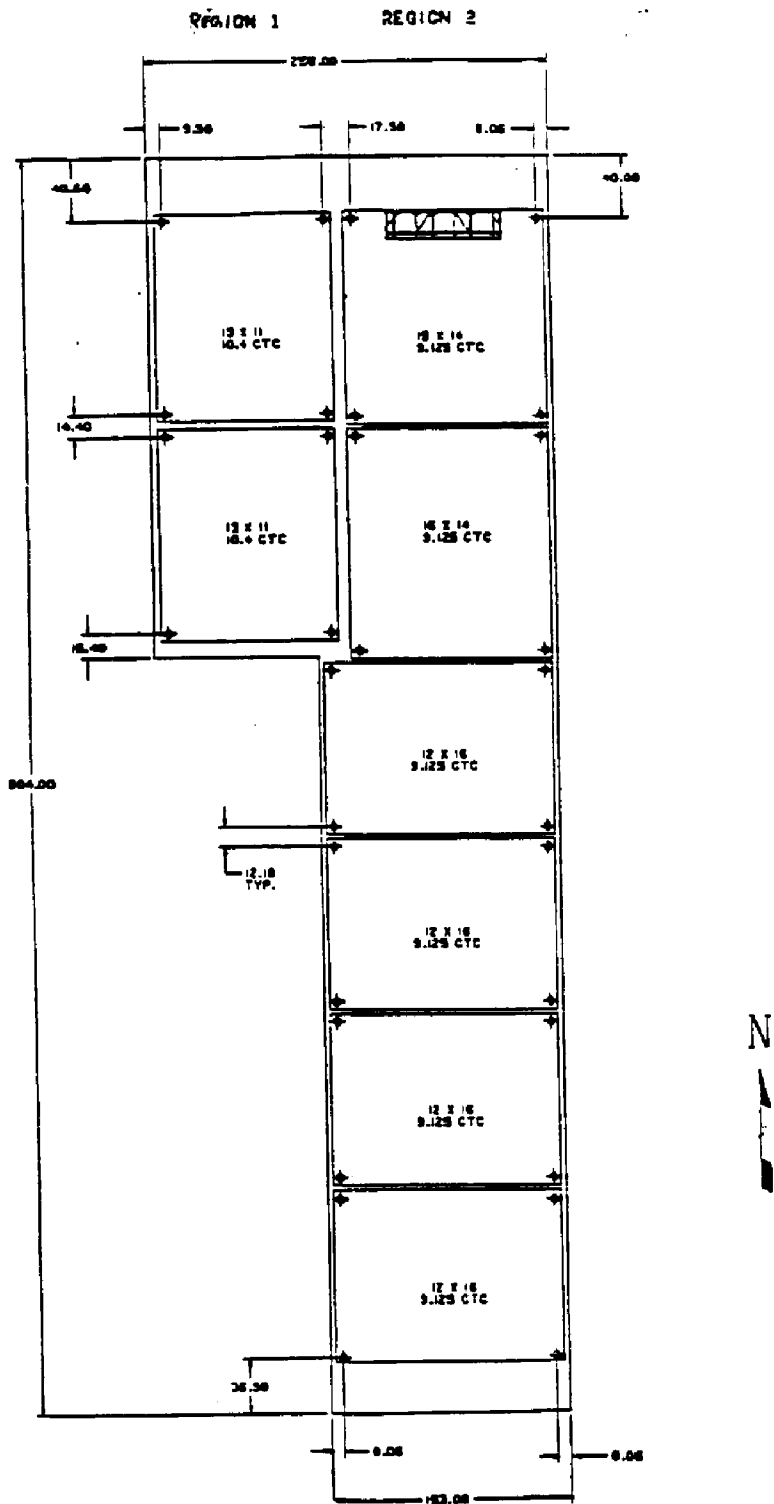


Figure 9-7. Spent Fuel Pool Arrangement Unit 2

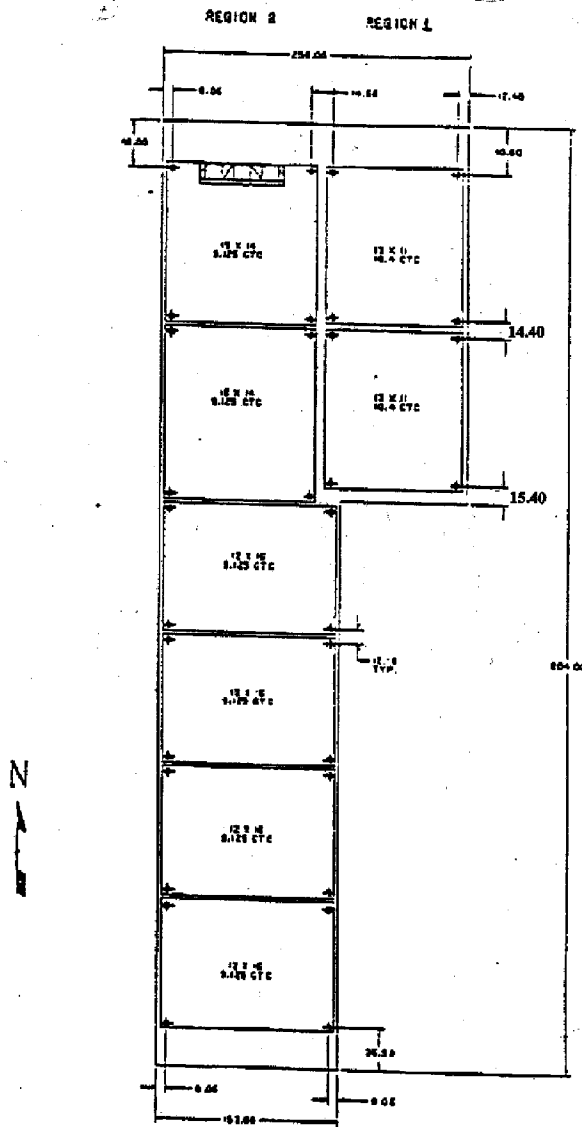


Figure 9-8. Deleted Per 1996 Update

Figure 9-9. Fuel Storage Rack Assembly (Region 1)

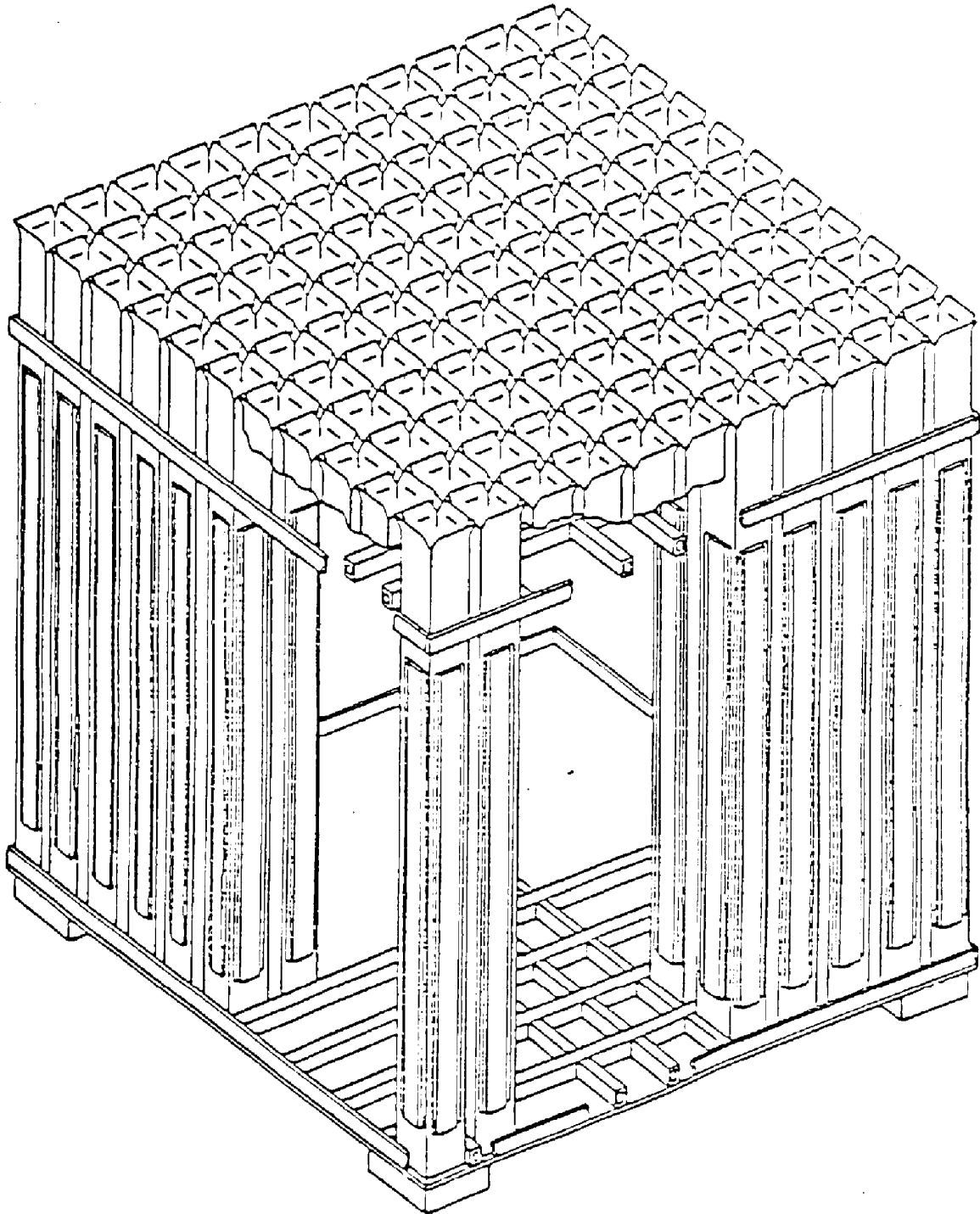


Figure 9-10. Fuel Storage Rack Module (Region 2)

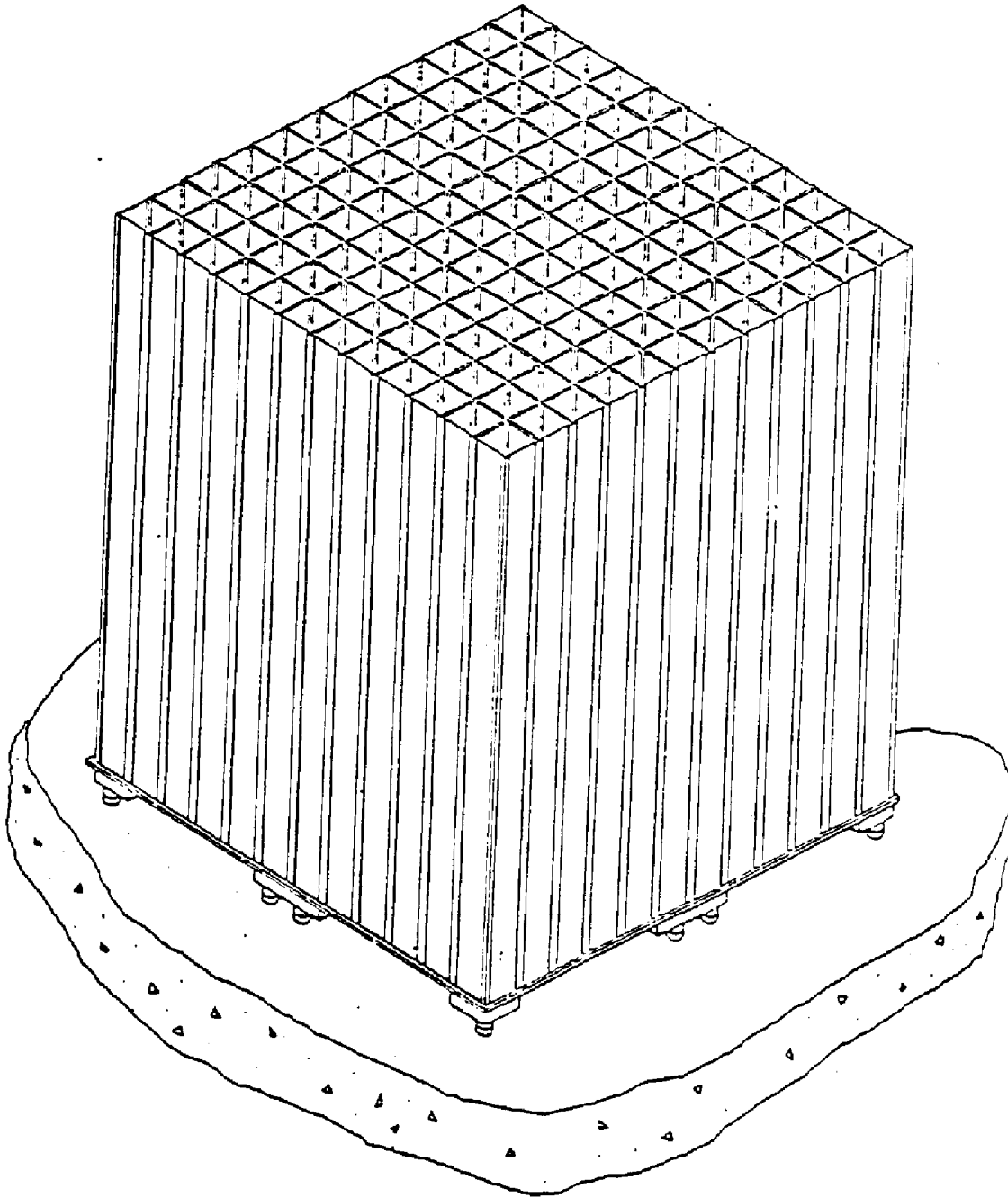


Figure 9-11. Region 1 Cell Layout

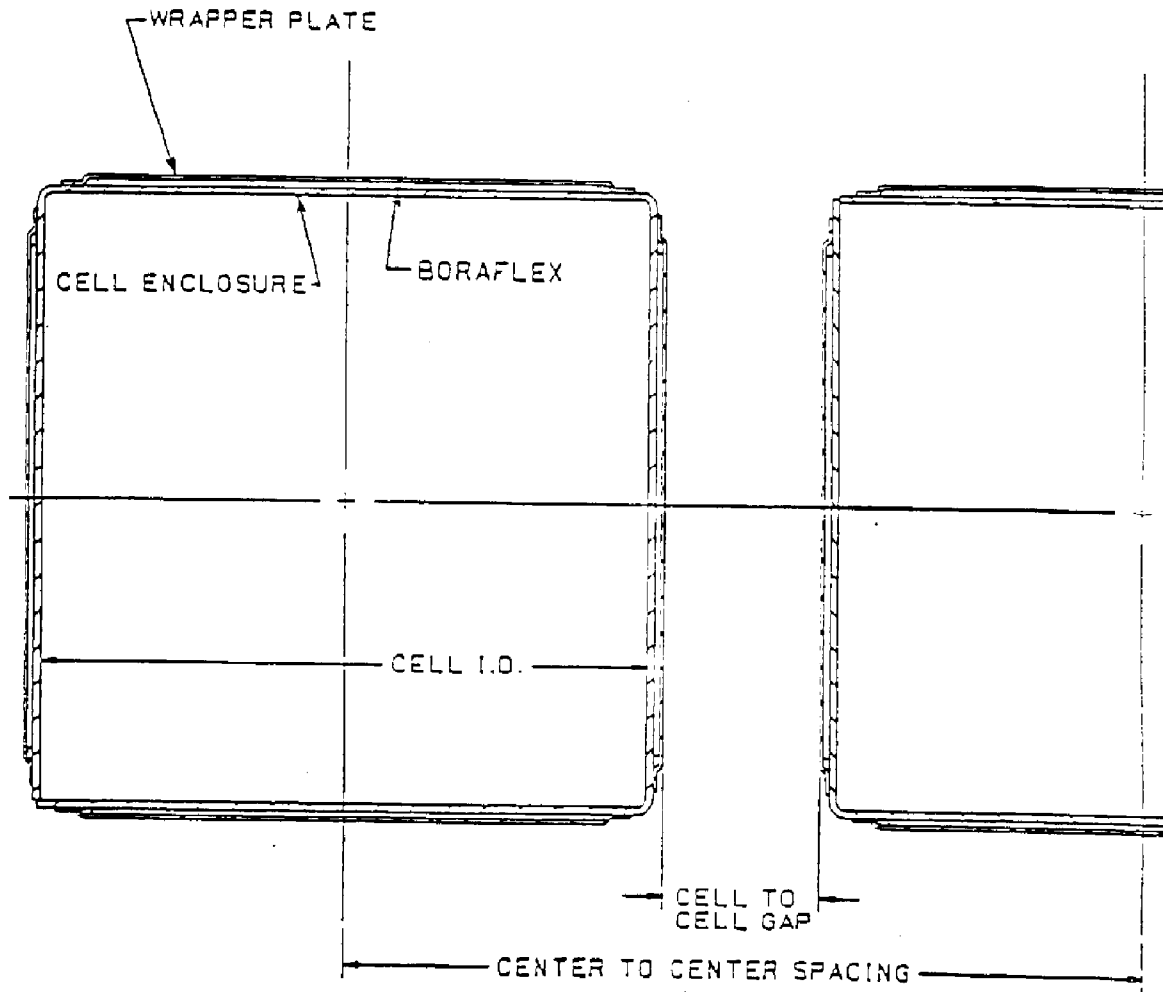


Figure 9-12. Region 2 Cell Layout

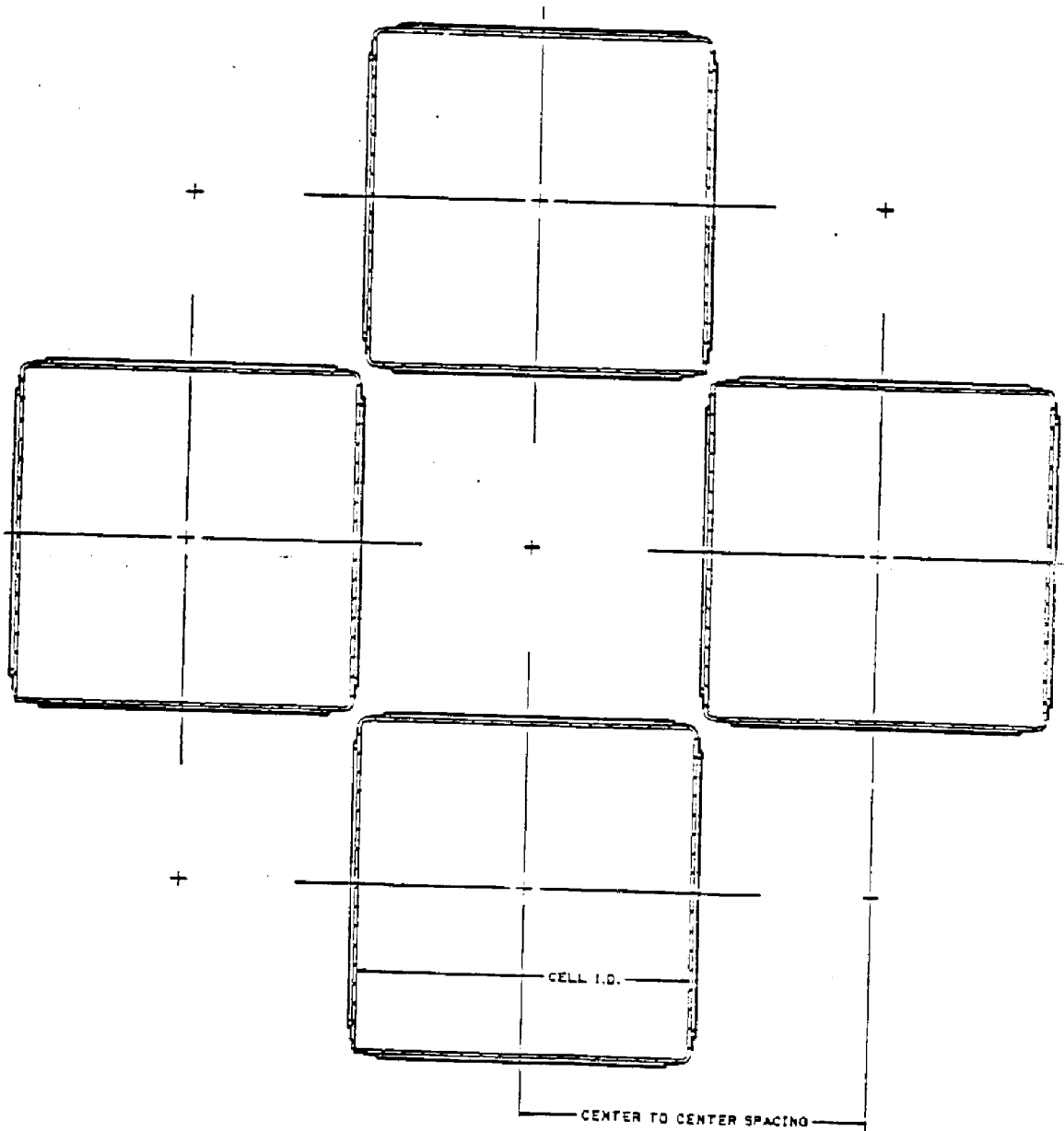


Figure 9-13. Summary Flow Diagram Spent Fuel Cooling System (KF)

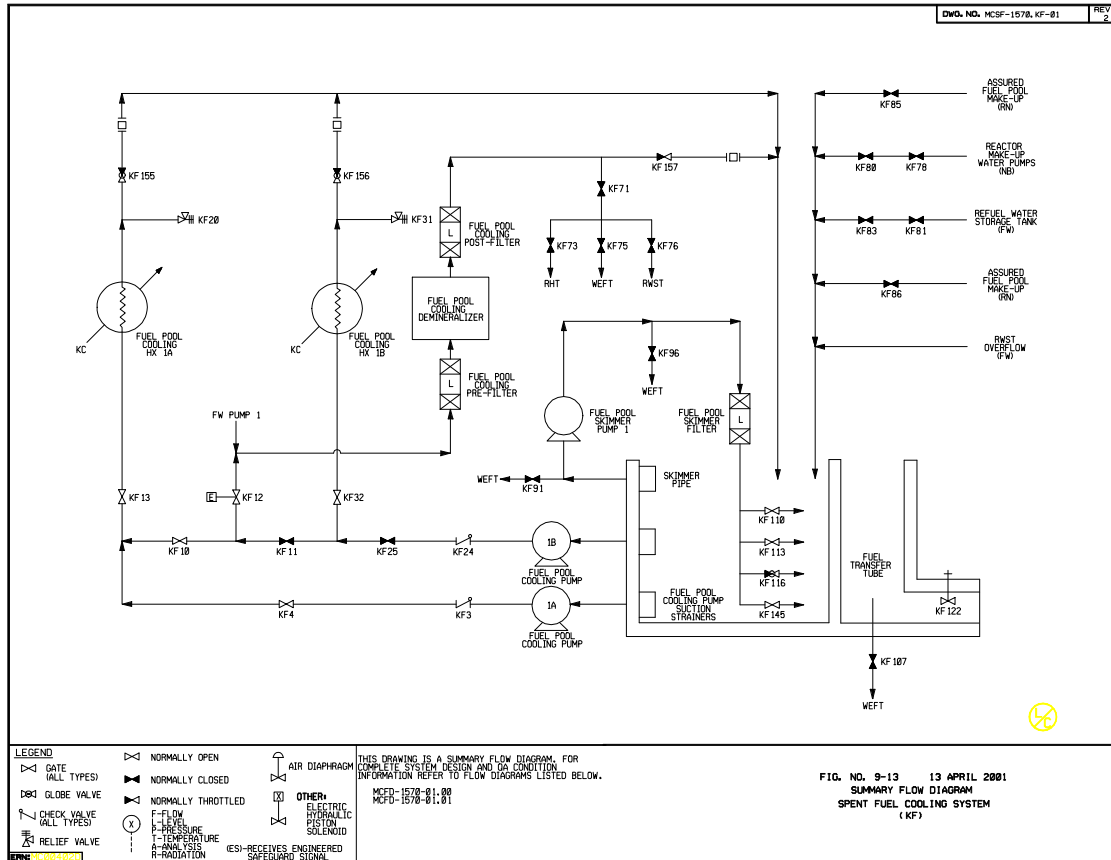


Figure 9-14. Reactor Manipulator Crane

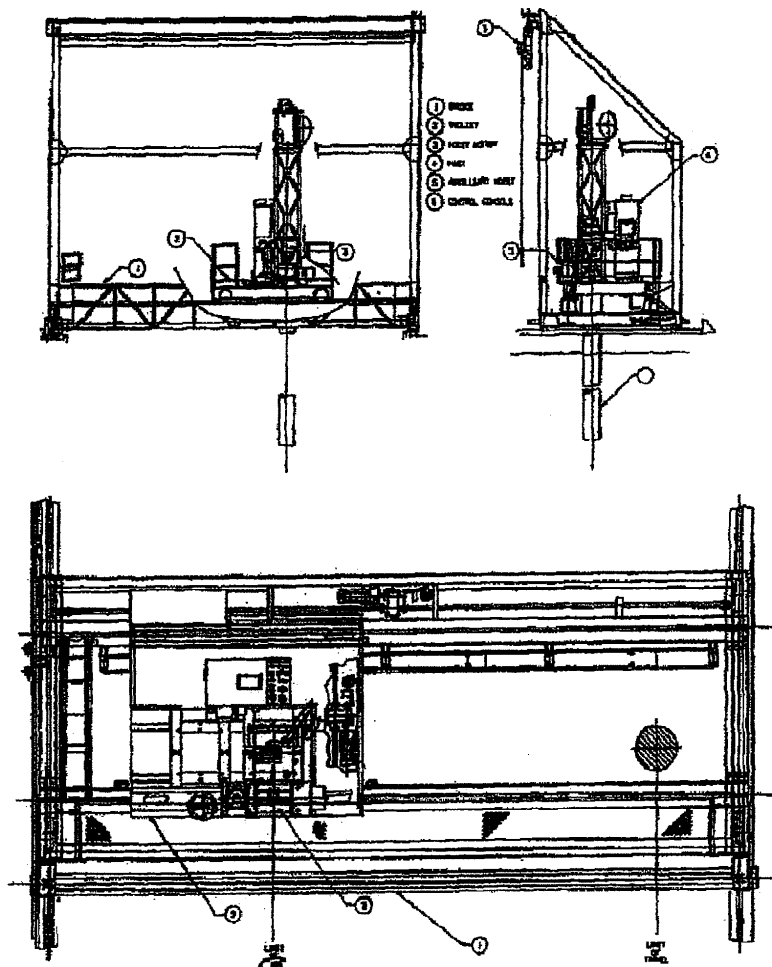


Figure 9-15. Deleted Per 2009 Update

Figure 9-16. Fuel Pool Manipulator Crane

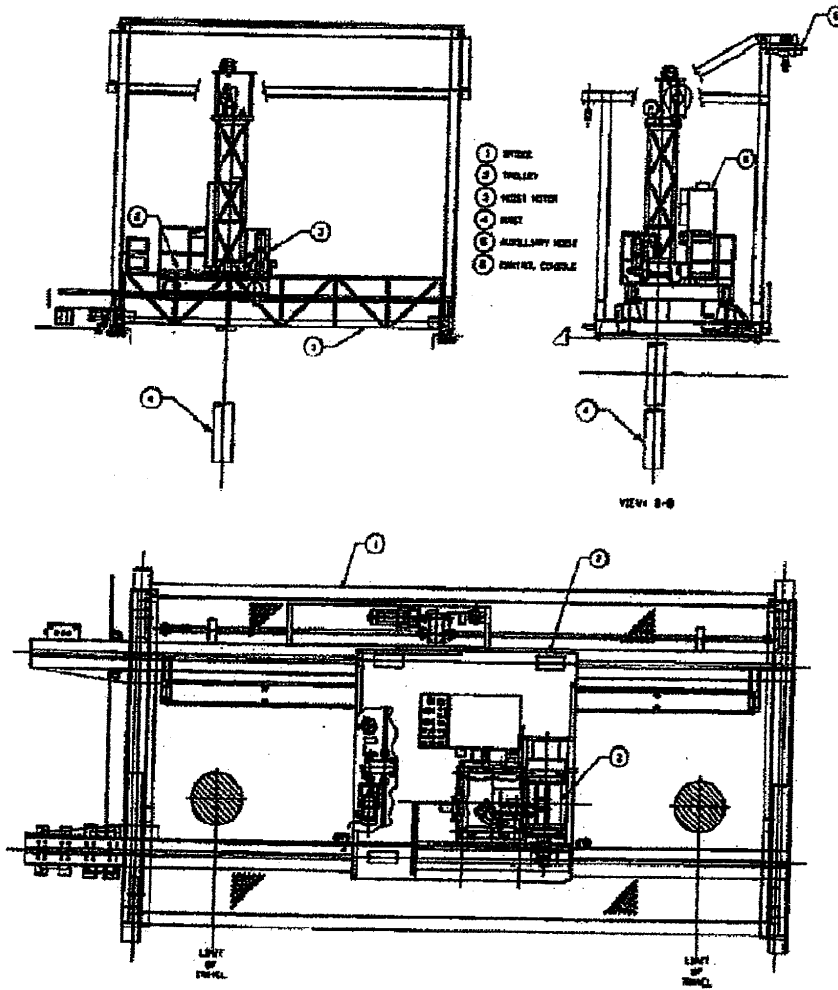


Figure 9-17. New Fuel Elevator

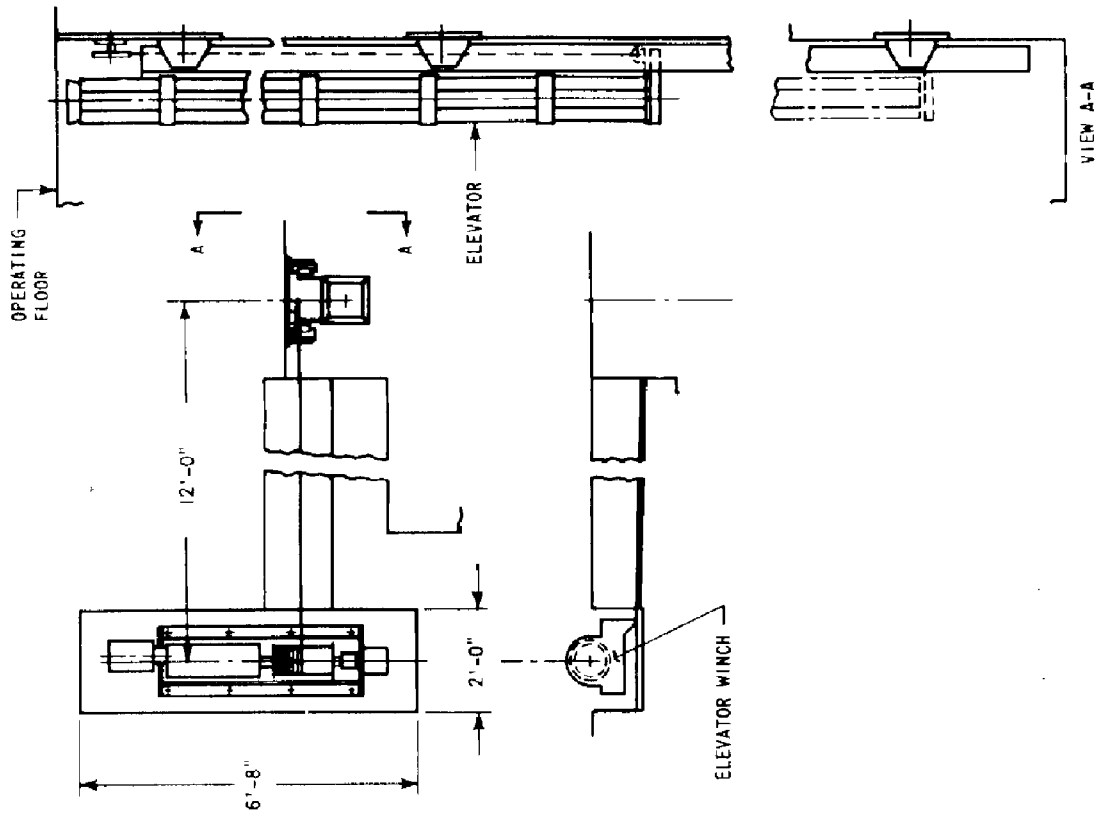


Figure 9-18. Fuel Transfer System

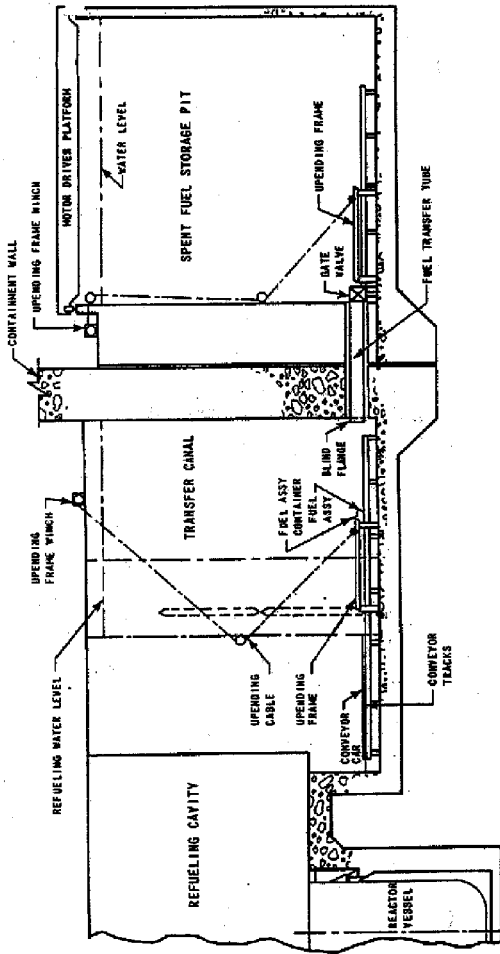


Figure 9-19. Rod Cluster Control Changing Fixture

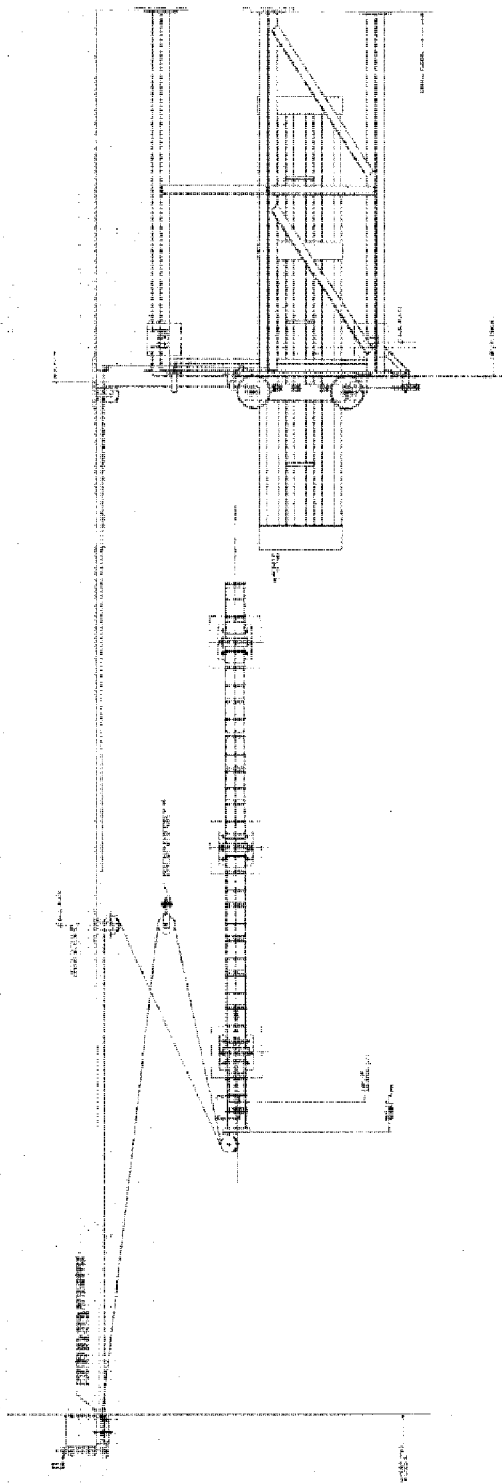


Figure 9-20. Spacer for Spent Fuel Storage

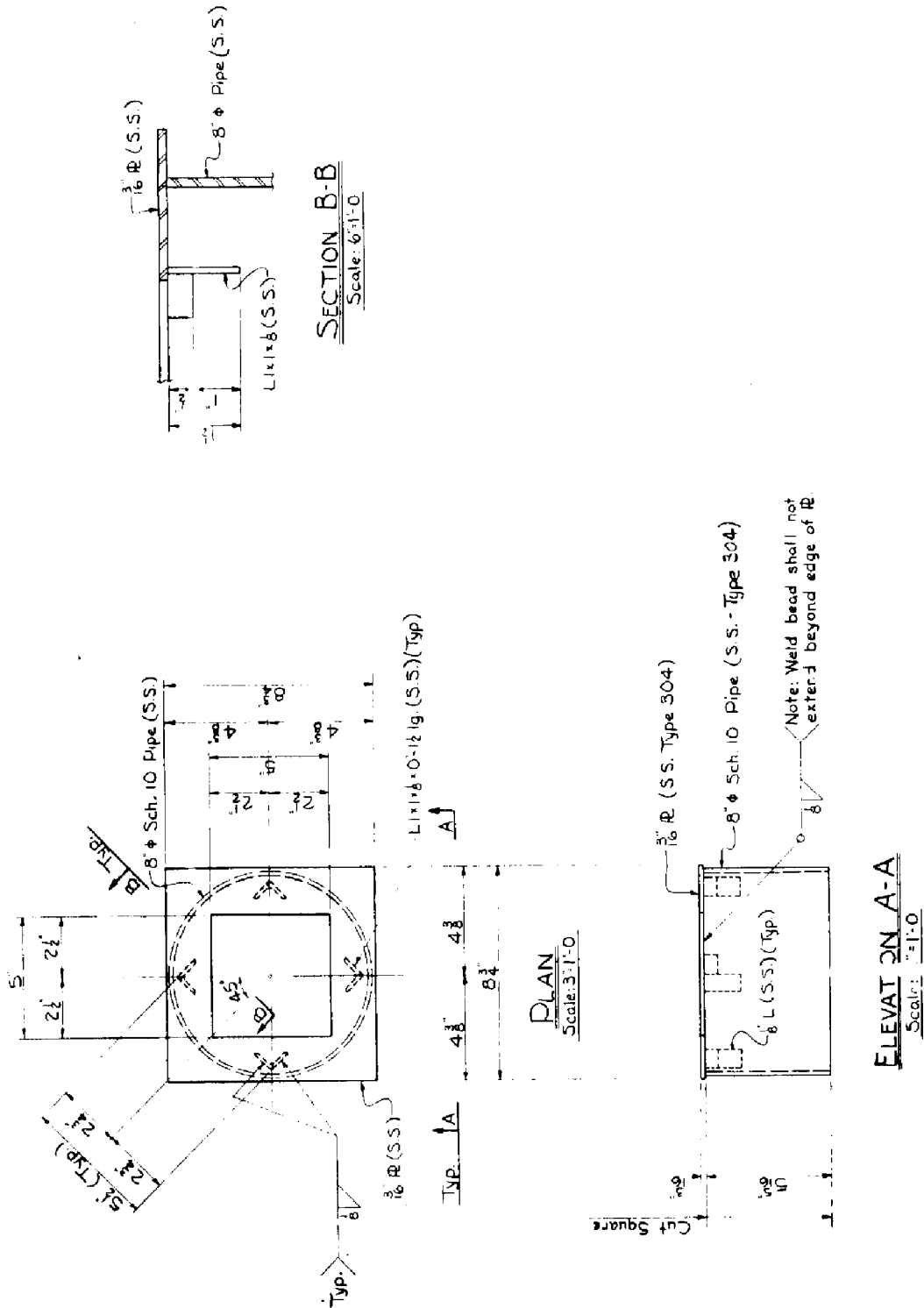


Figure 9-21. Reactor Vessel Head Lifting Device

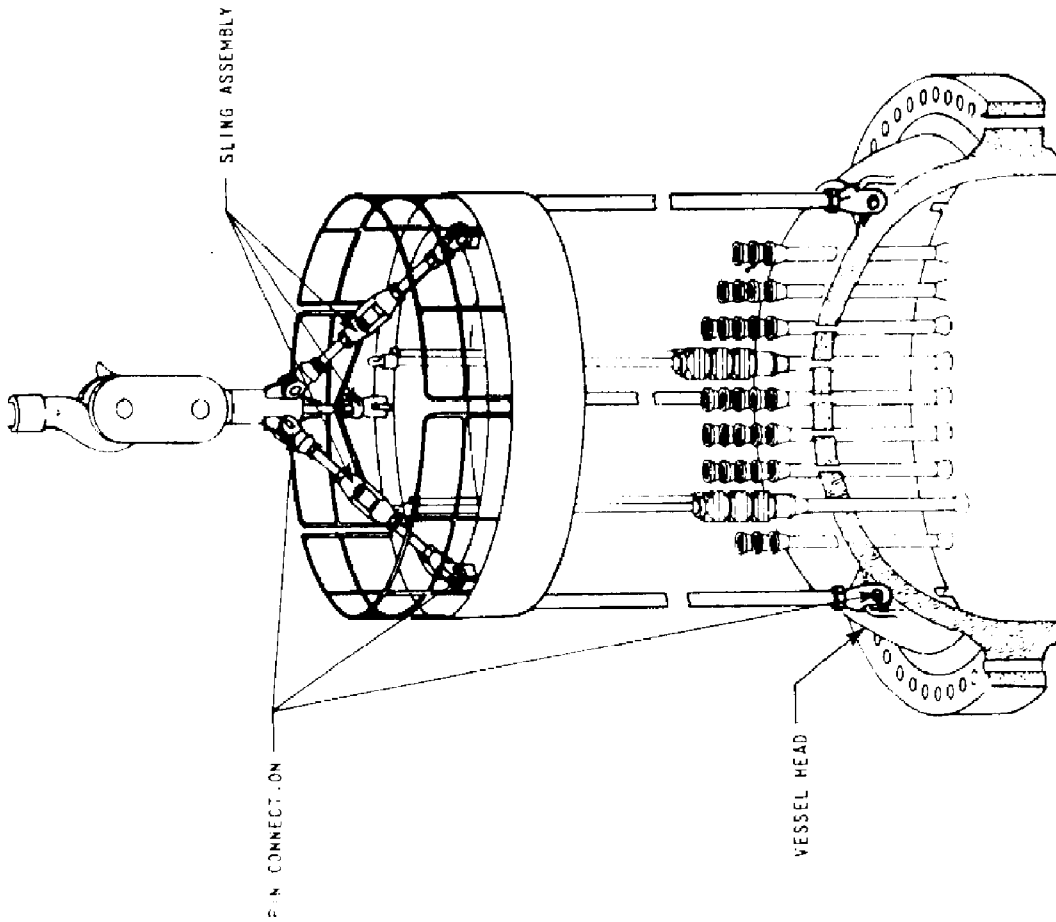


Figure 9-22. Reactor Internals Lifting Device

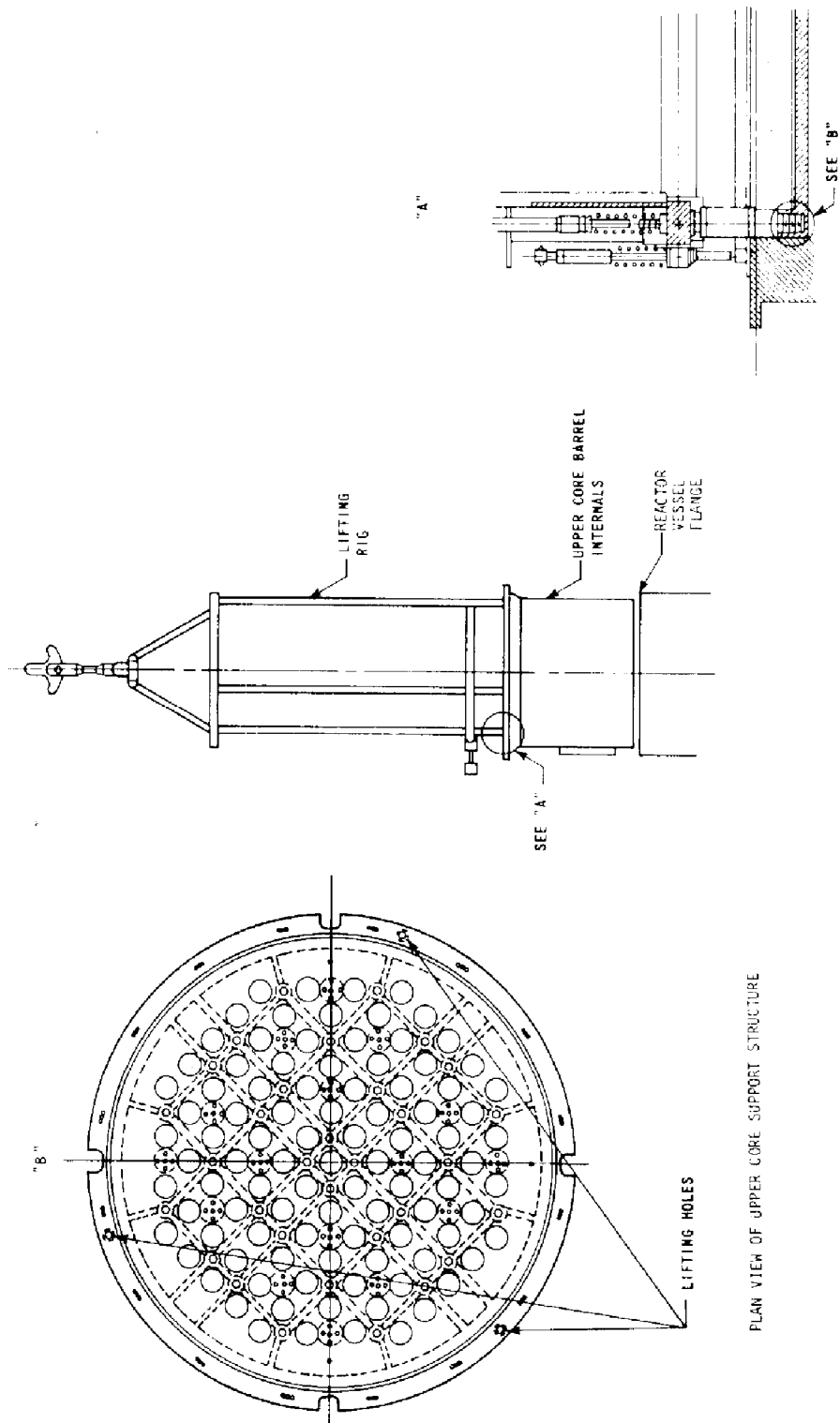


Figure 9-23. Reactor Vessel Stud Tensioner

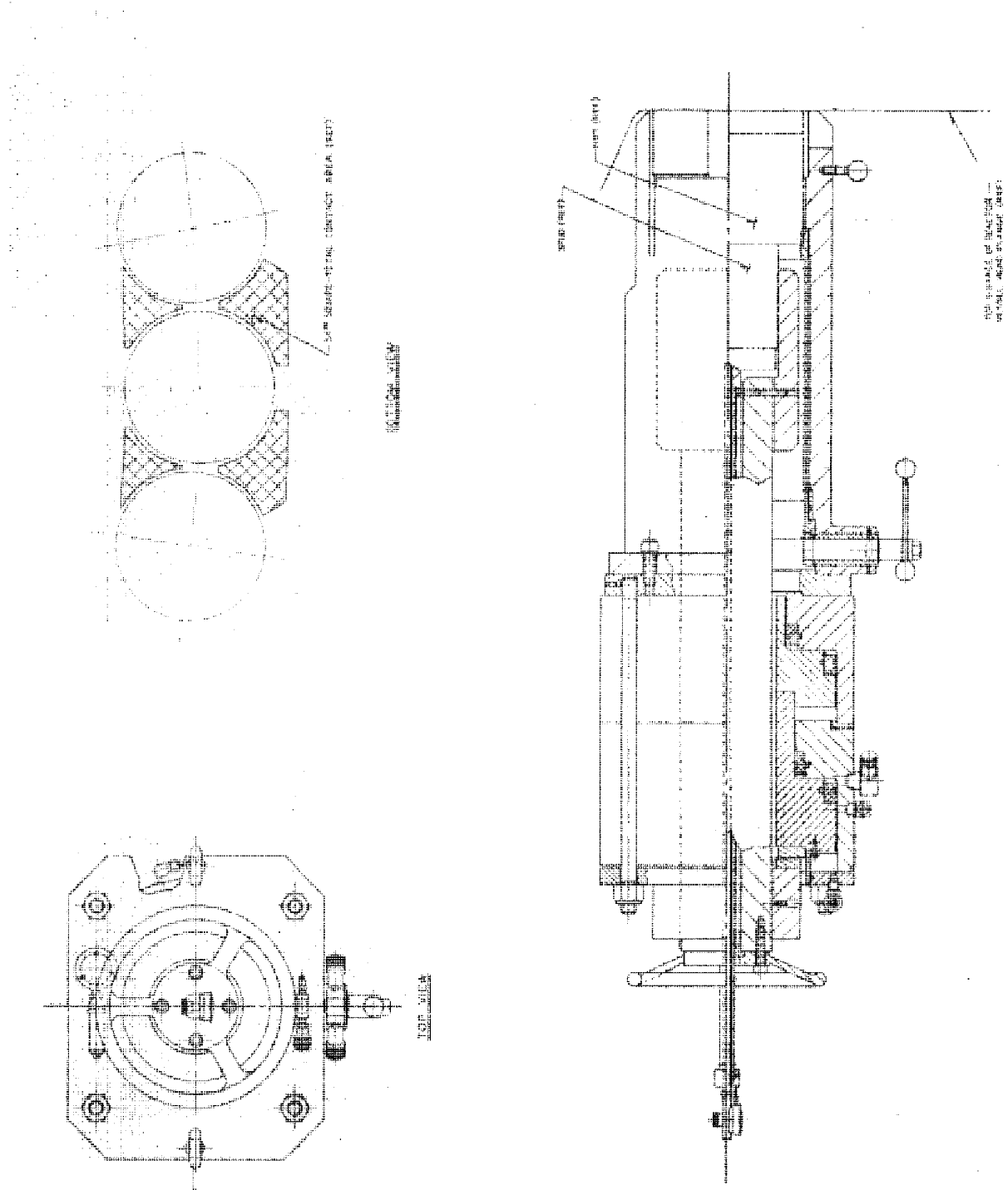


Figure 9-24. Auxiliary and Reactor Building Refueling Canal Layout/Longitudinal Section

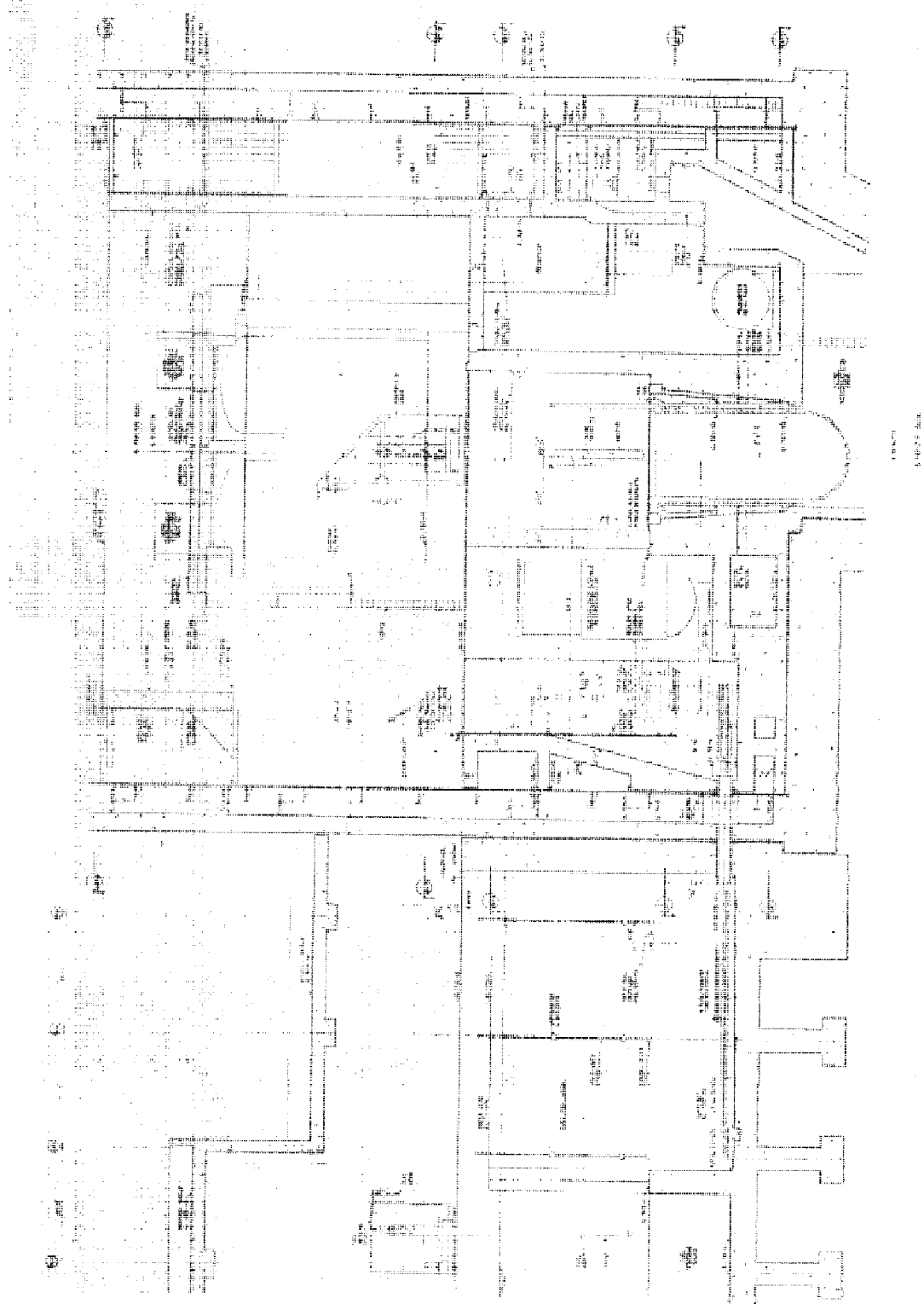


Figure 9-25. Flow Diagram of Recirculated Cooling Water System

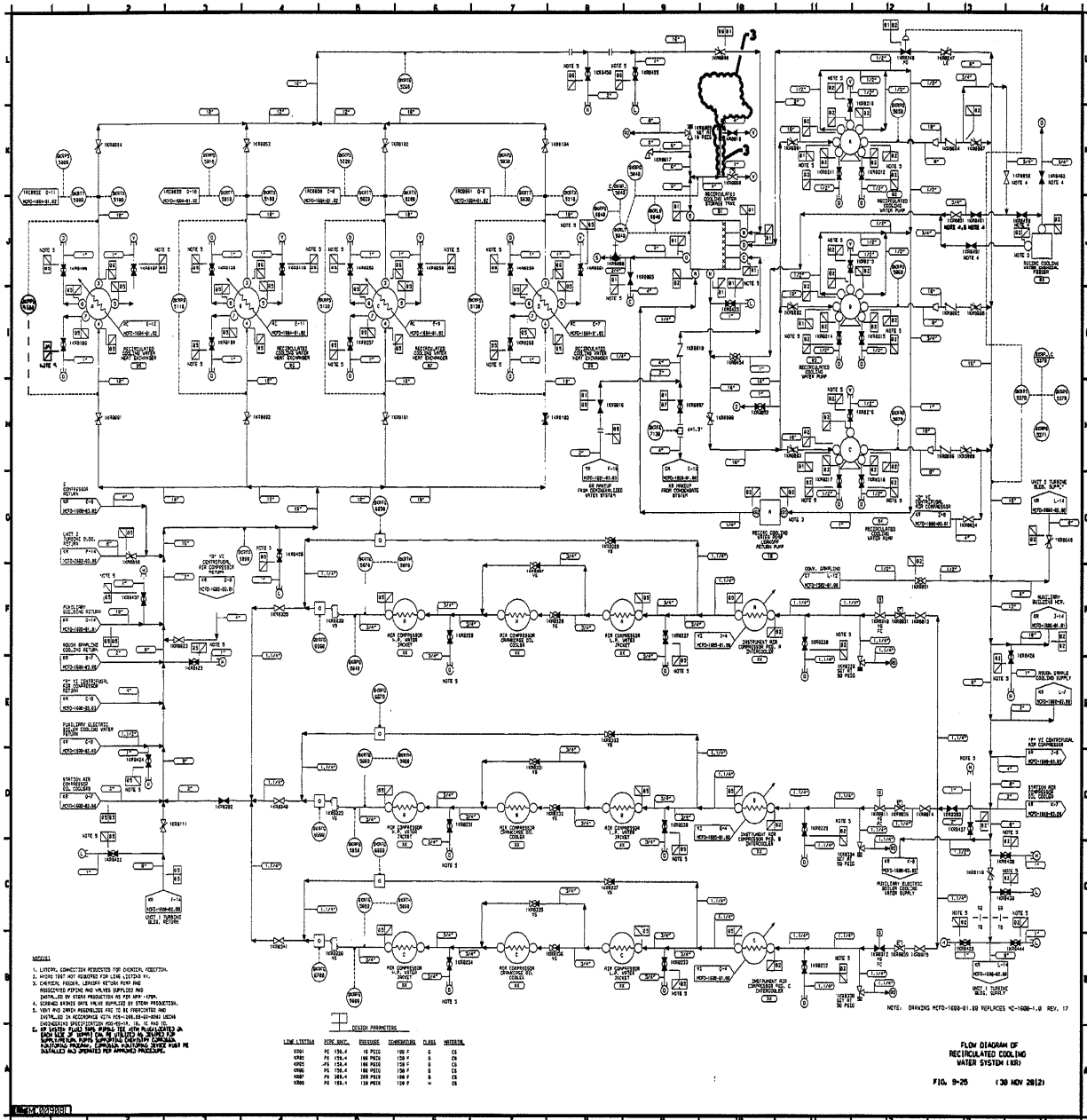


Figure 9-26. Flow Diagram of Recirculated Cooling Water System (KR)

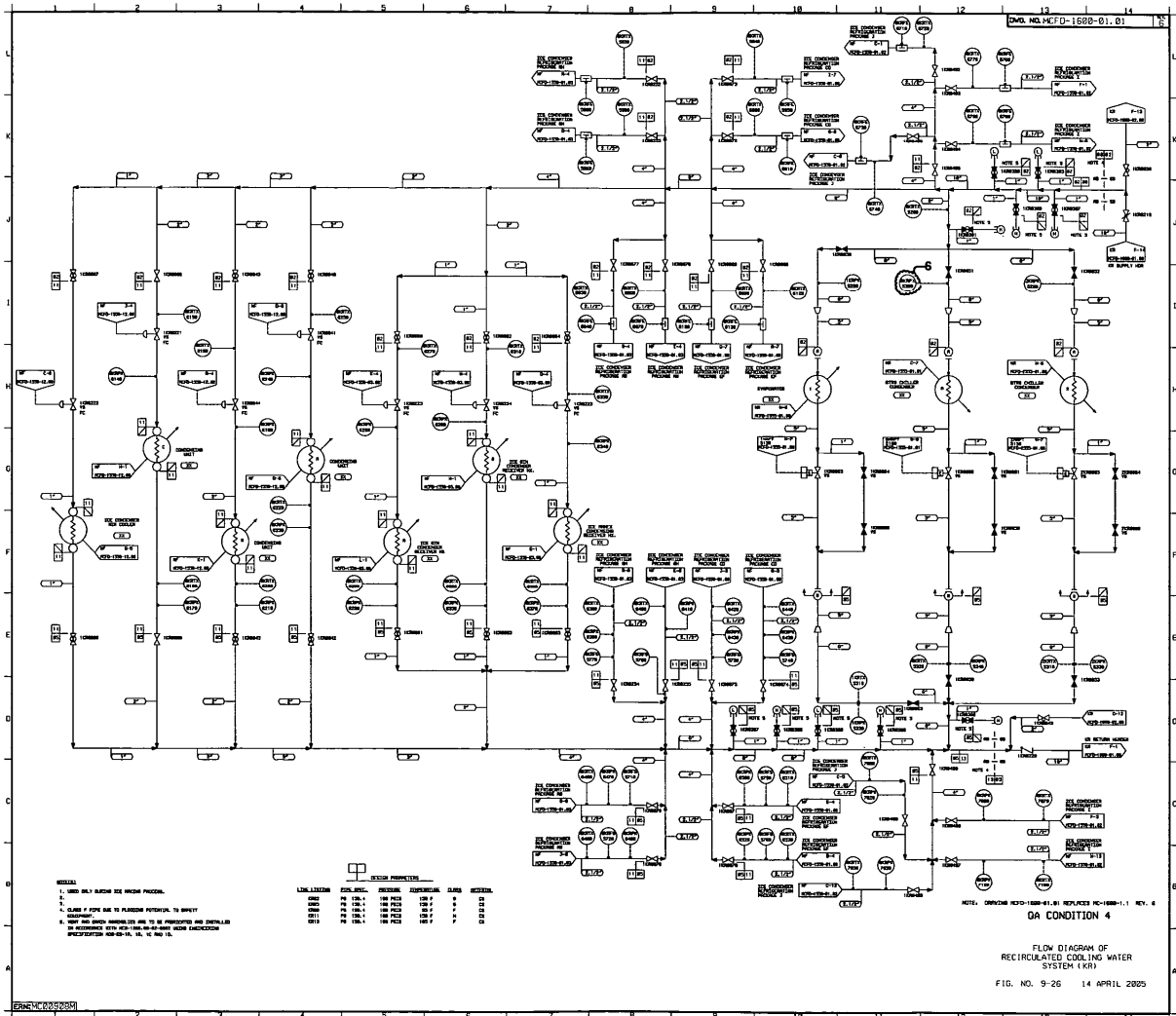


Figure 9-27. Flow Diagram of Recirculated Cooling Water System (KR)

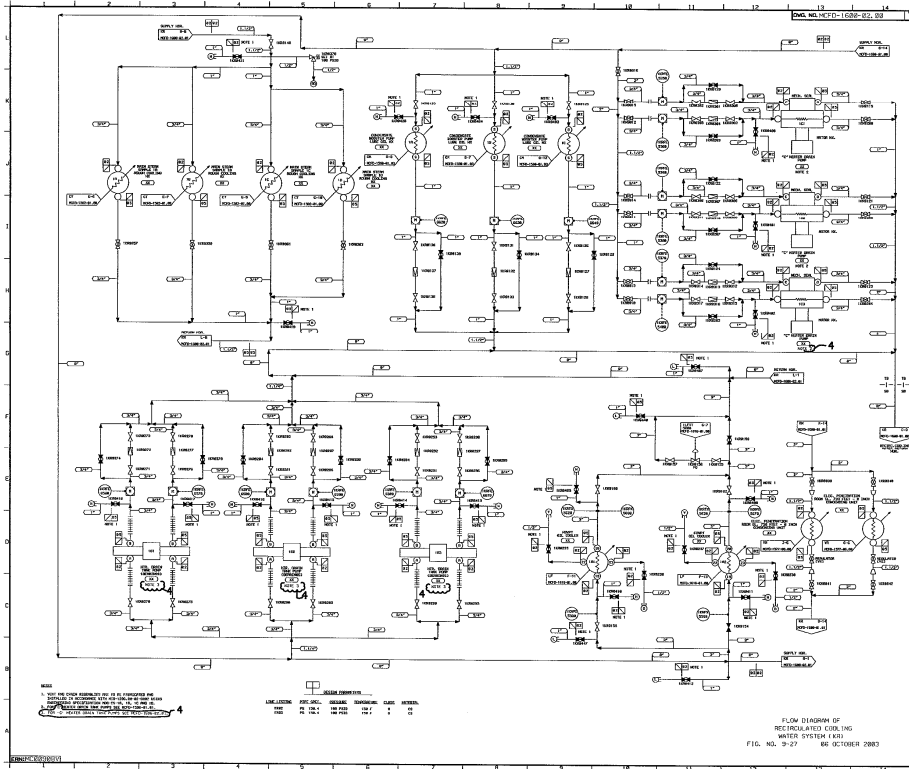


Figure 9-28. Flow Diagram of Recirculated Cooling Water System (KR)

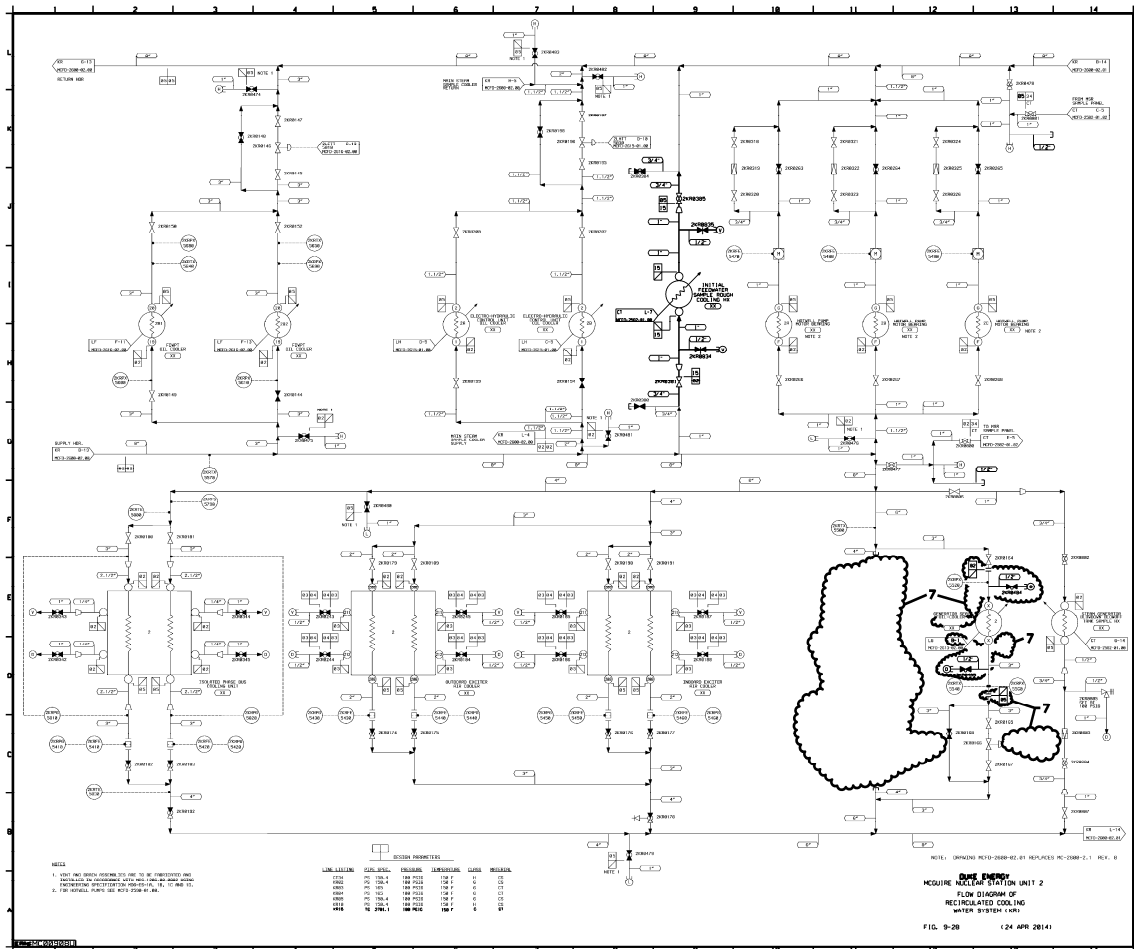


Figure 9-29. Flow Diagram of Recirculated Cooling Water System (KR)

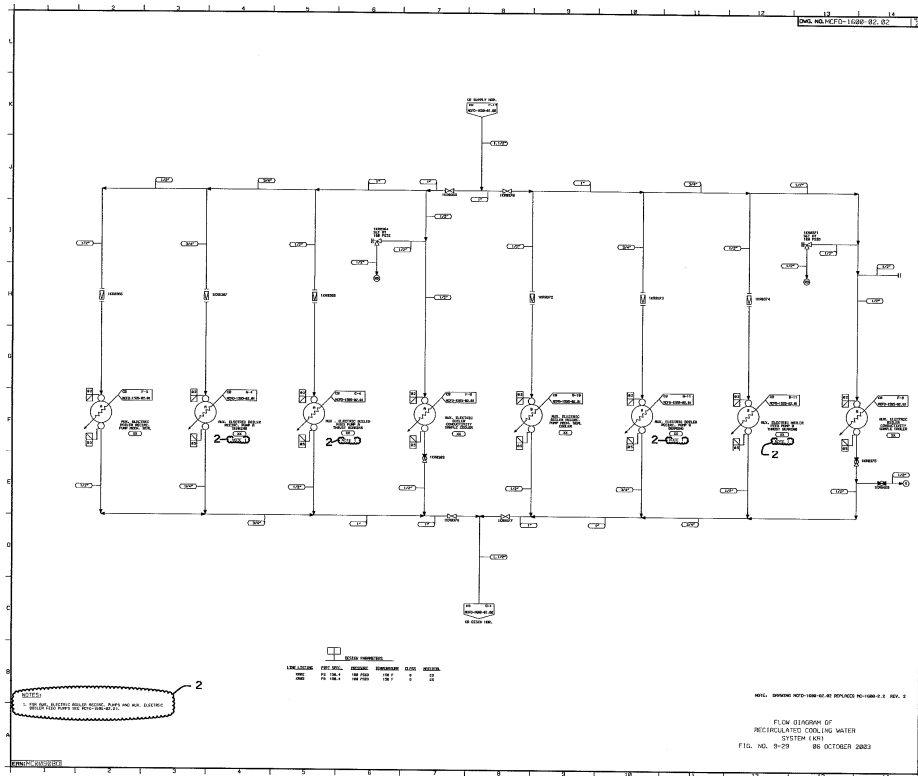


Figure 9-30. Flow Diagram of Recirculated Cooling Water System (KR)

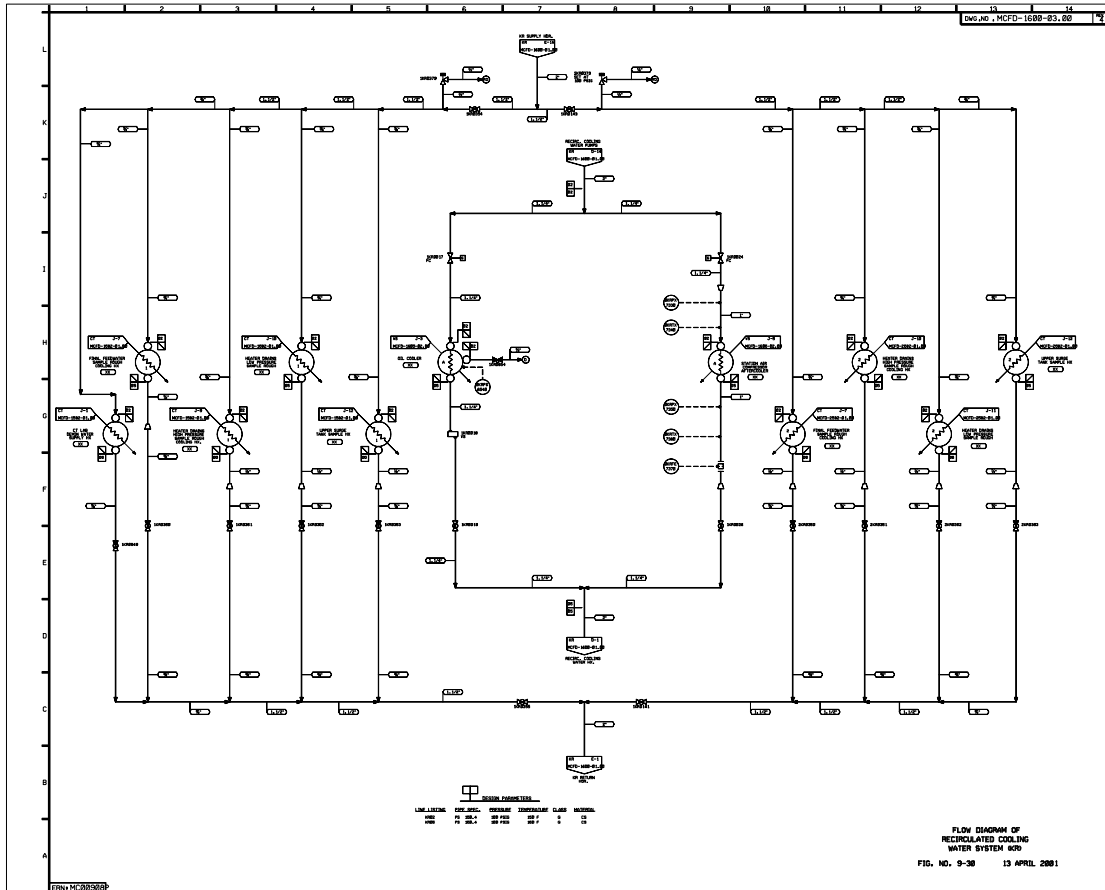


Figure 9-31. Nuclear Service Water System (RN)

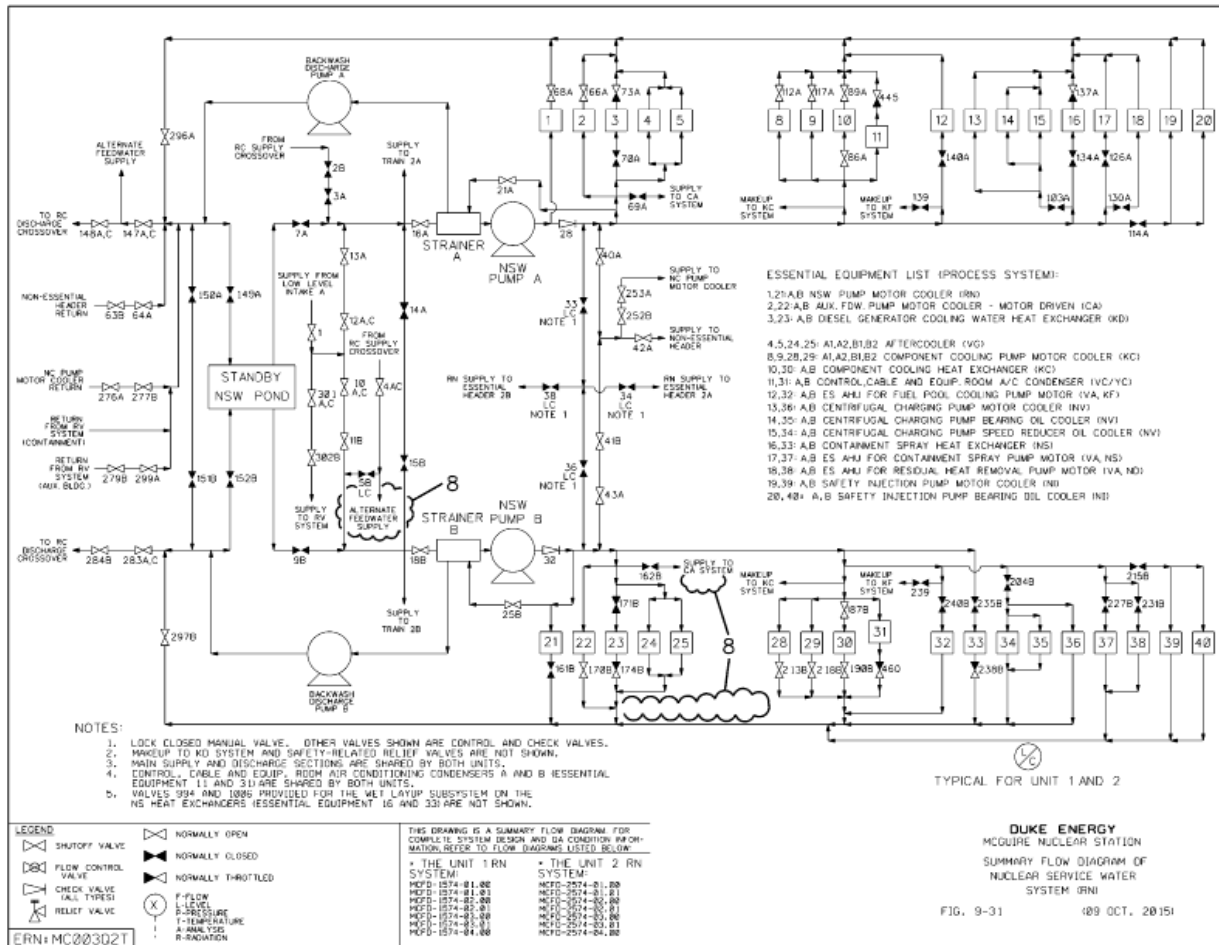


Figure 9-32. Deleted Per 1993 Update

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Figure 9-37. Deleted Per 1993 Update

Figure 9-38. Deleted Per 1991 Update

Figure 9-39. Residual Decay Heat

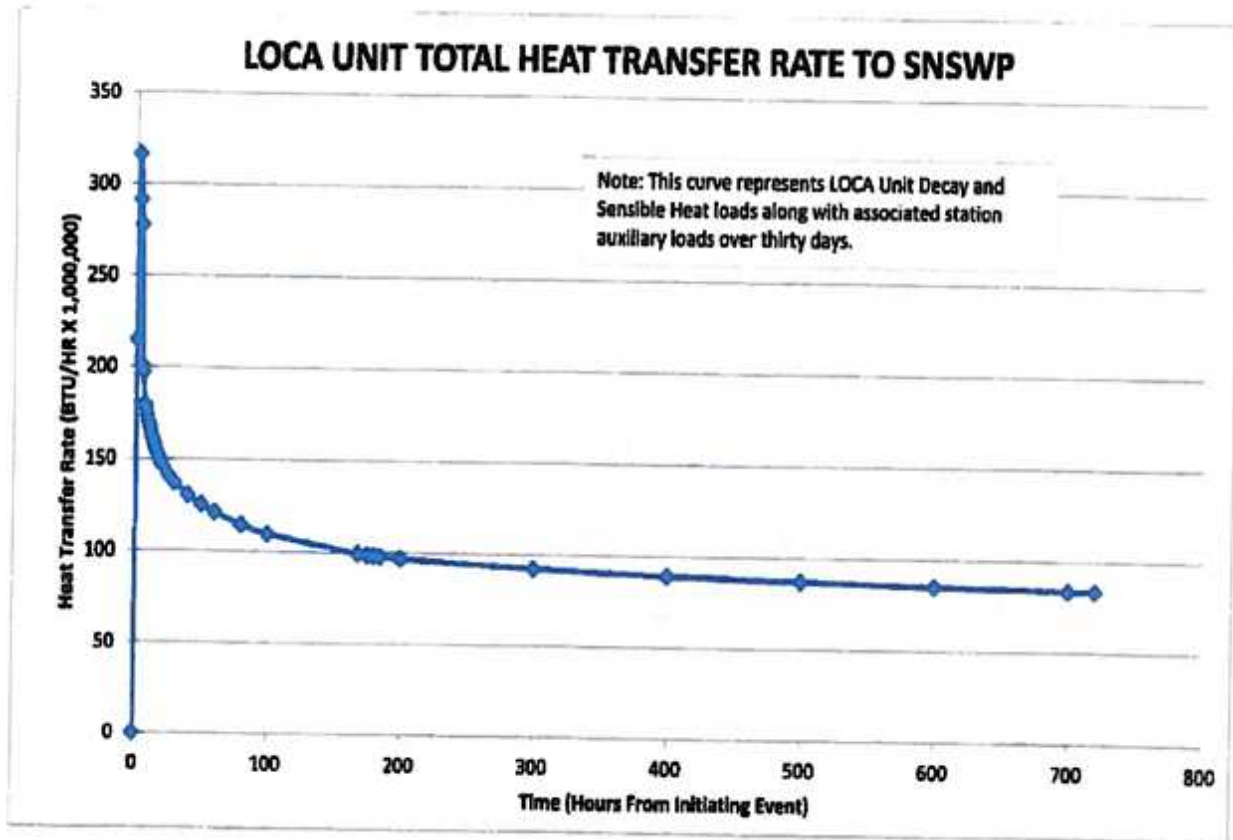


Figure 9-40. Residual Decay Heat

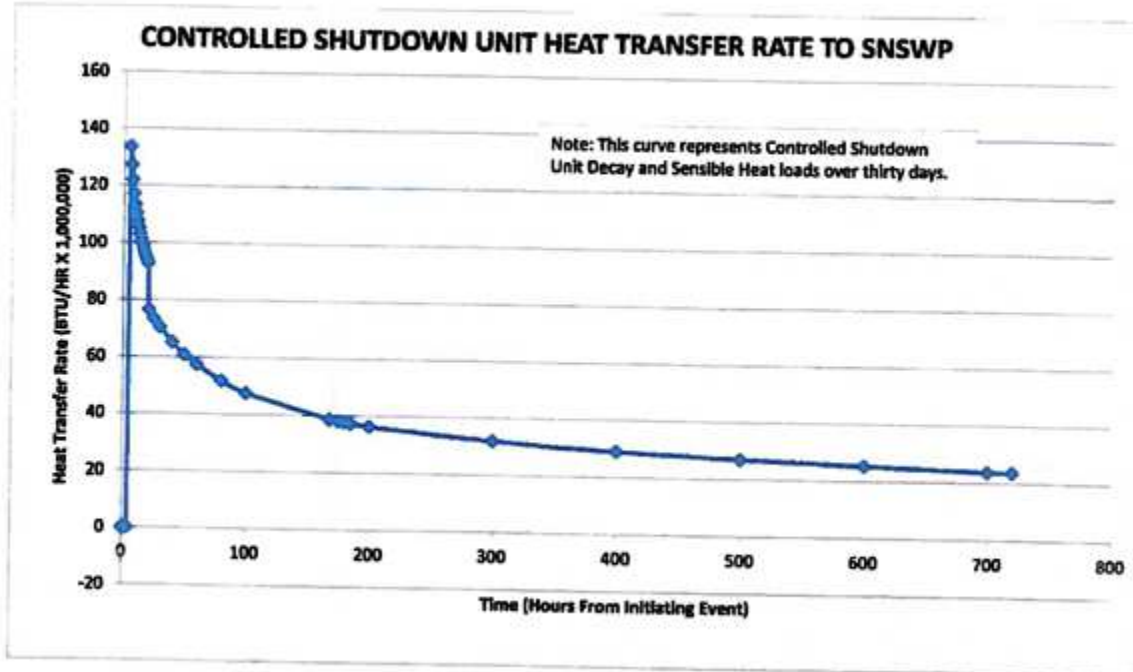


Figure 9-41. Total Heat Rejected

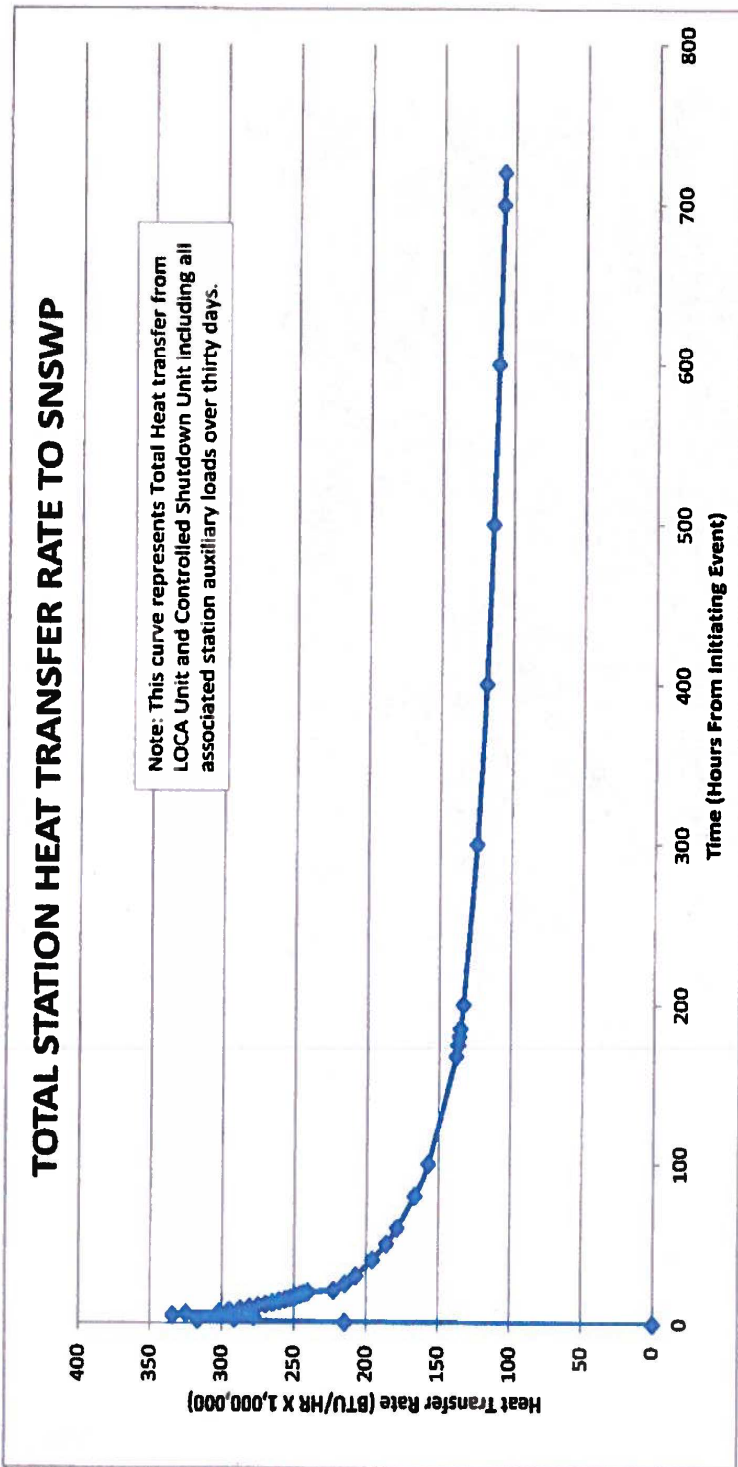


Figure 9-42. Standby Nuclear Service Water Pond Area/Volume Curve

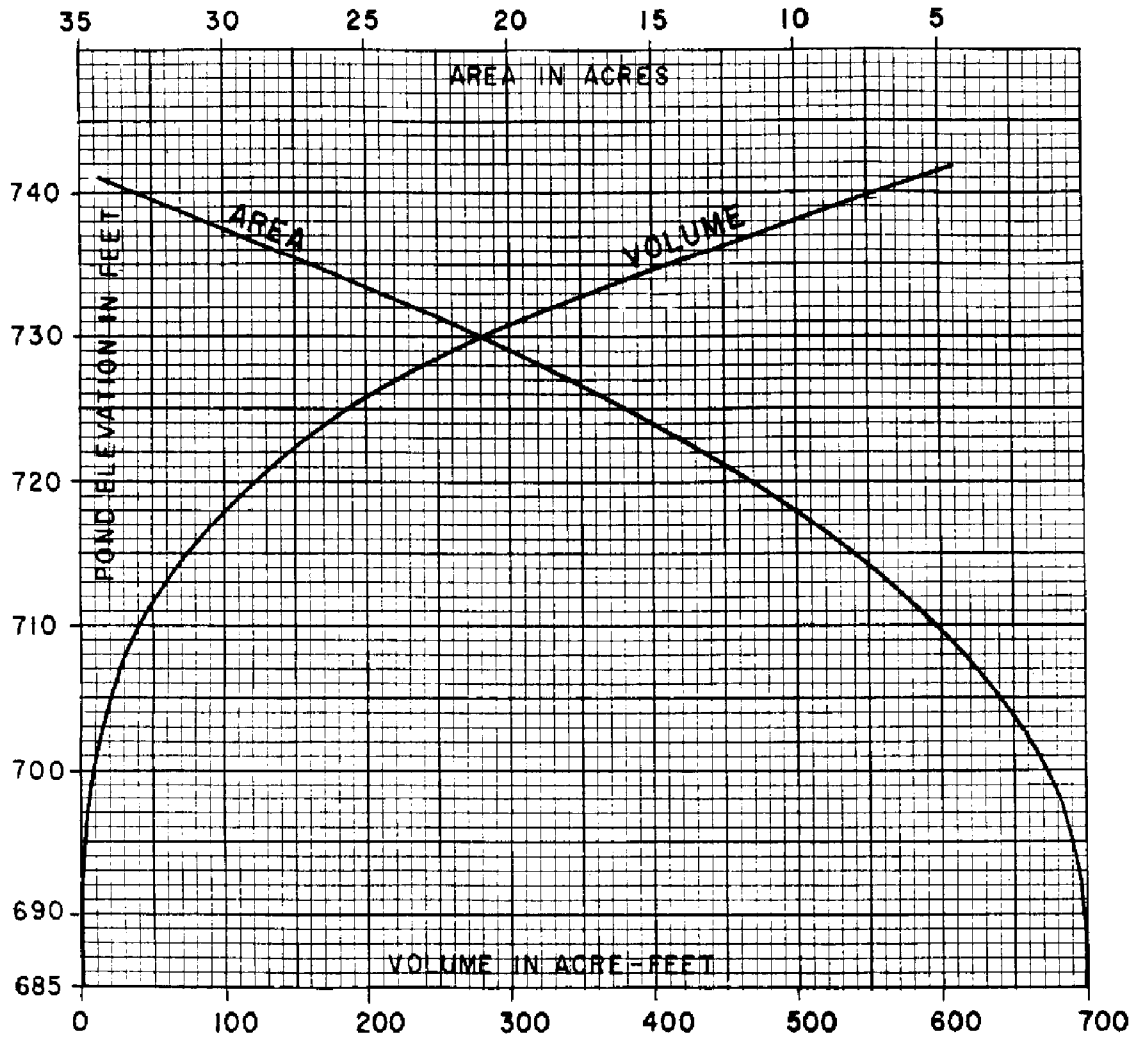


Figure 9-43. Low Level Nuclear Service Water Pipe and Standby Nuclear Service Water Pipe Routing Plan

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Figure 9-44. Profile of Standby Nuclear Service Water Pipes

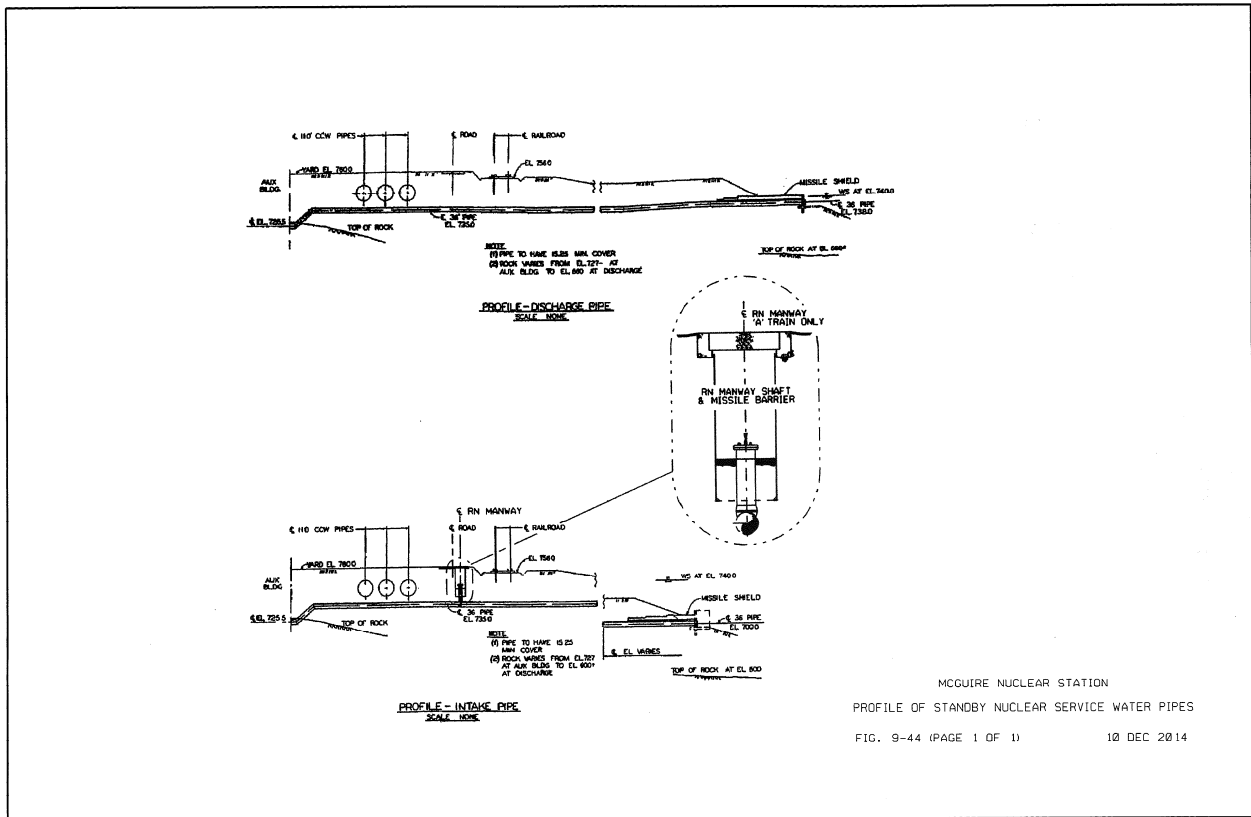


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Figure 9-54. Flow Diagram of Conventional Low Pressure Service Water System (RL)

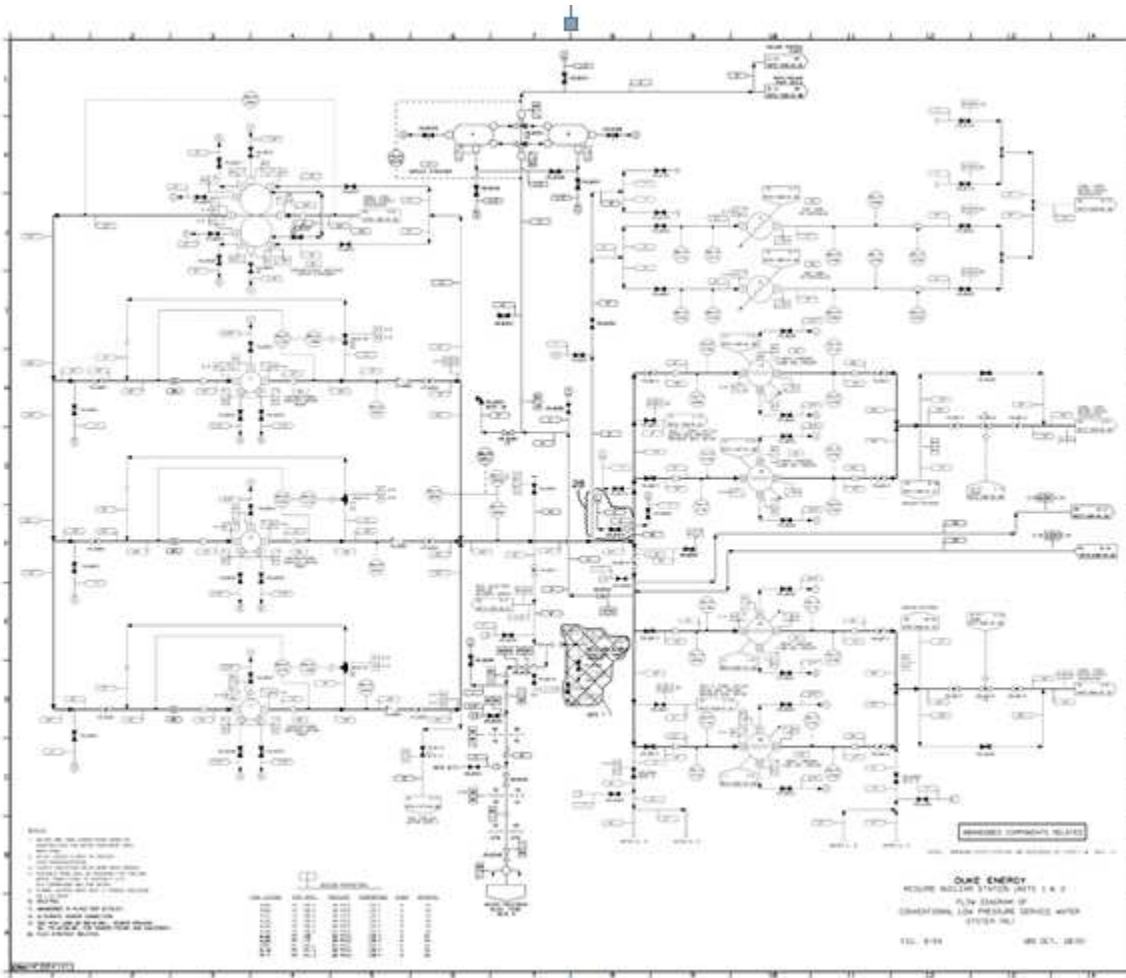


Figure 9-55. Flow Diagram of Conventional Low Pressure Water System (RL) (Service Bldg. Cooling Coils)

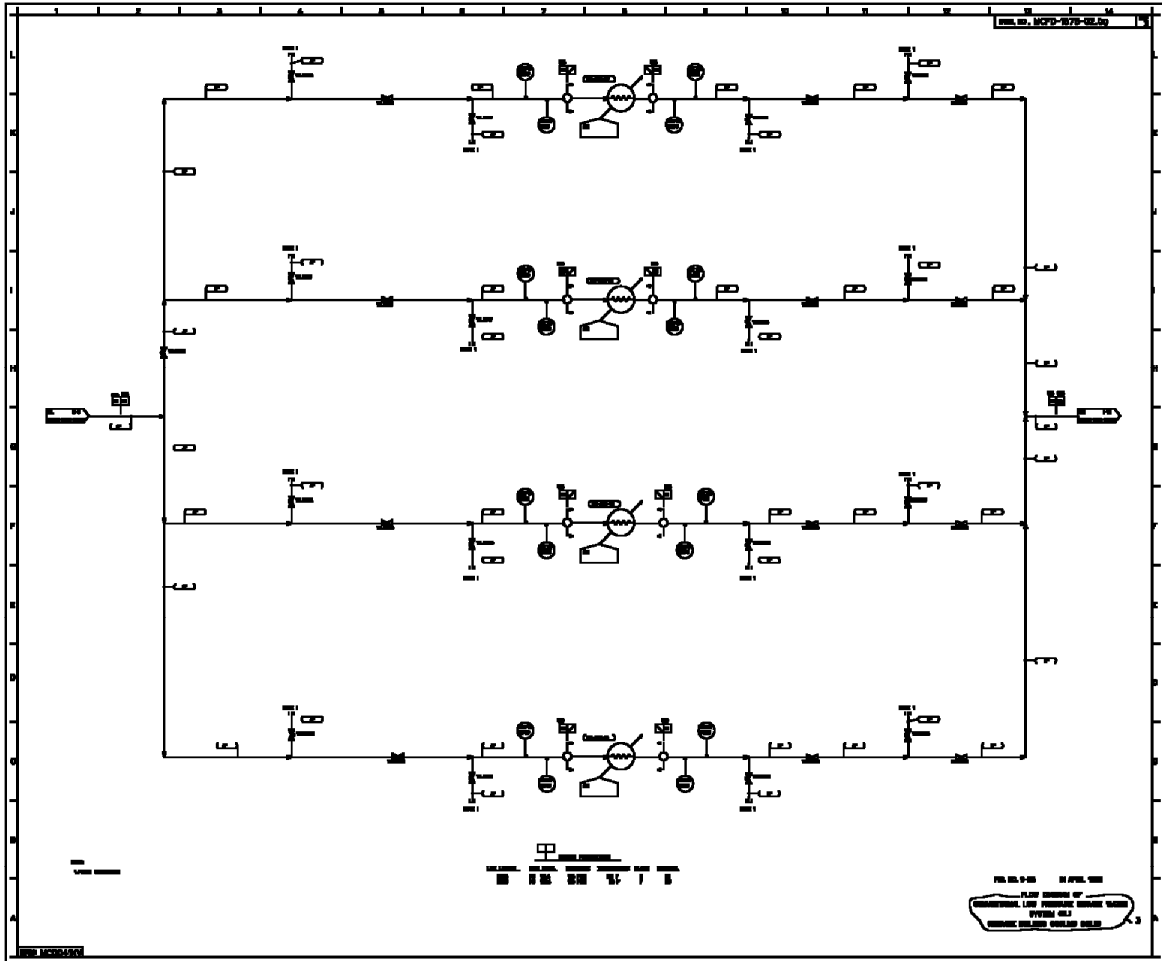


Figure 9-56. Flow Diagram of Conventional Low Pressure Service Water System (RL)

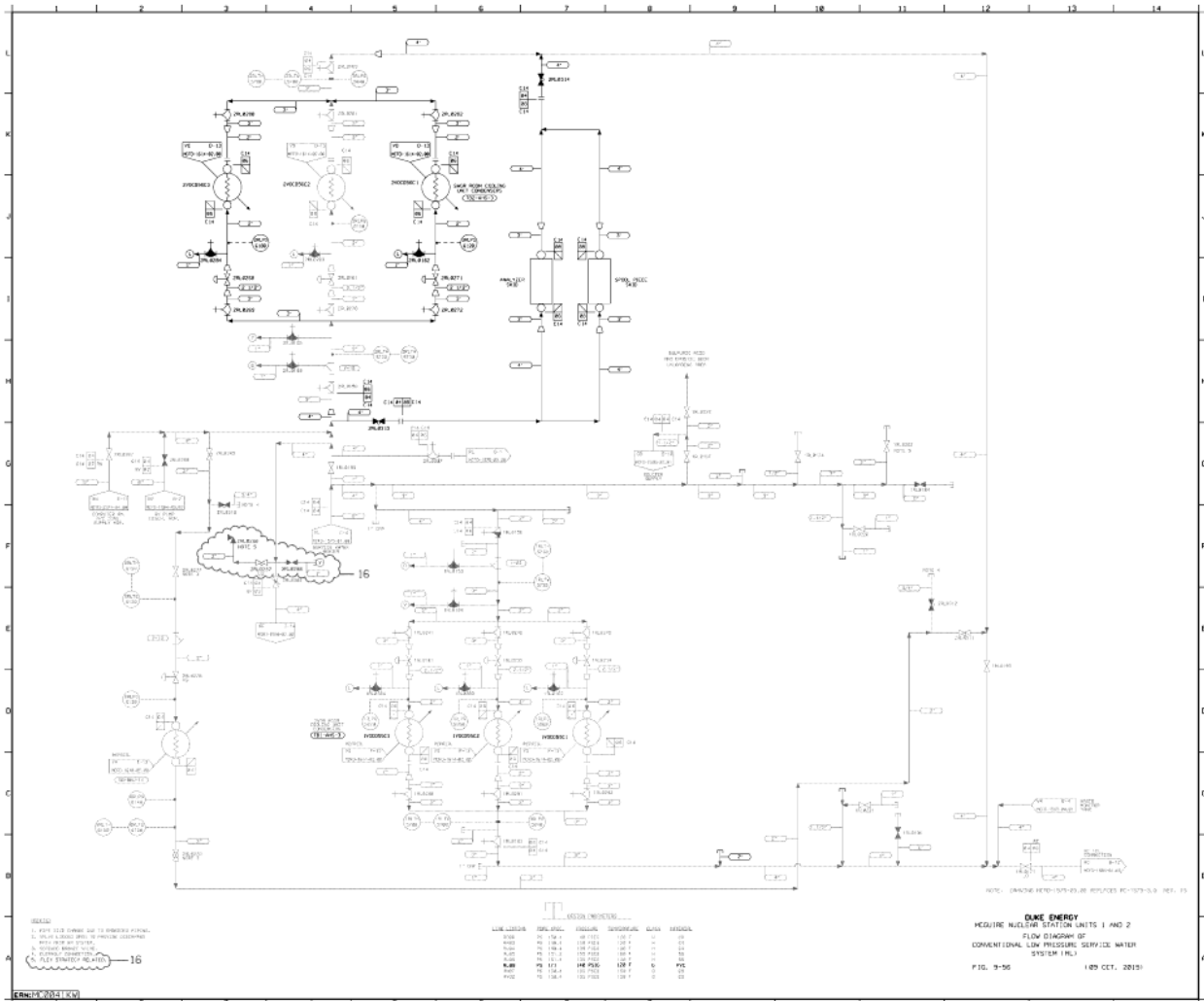


Figure 9-57. Component Cooling System

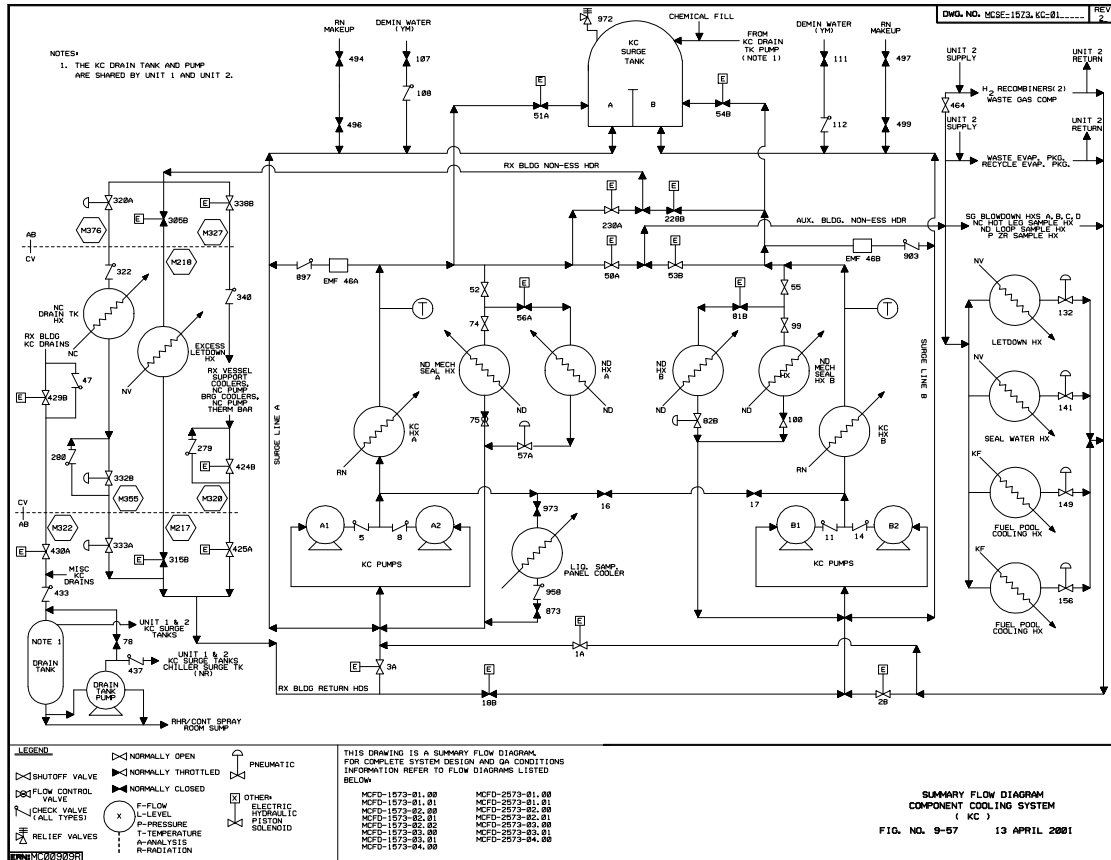


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Figure 9-61. Deleted Per 1996 Update

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Figure 9-65. Refueling Water System (FW)

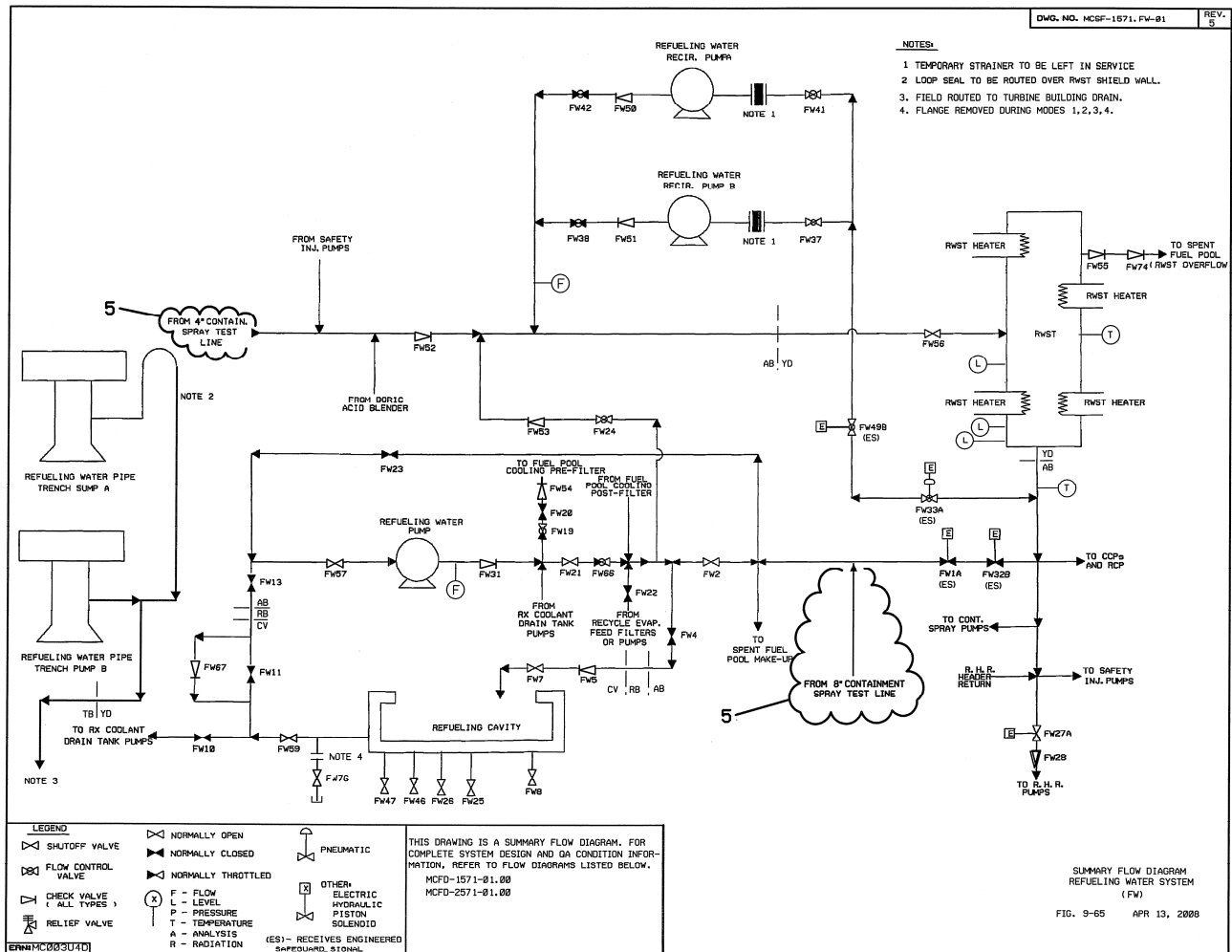


Figure 9-66. Flow Diagram of Filtered Water System

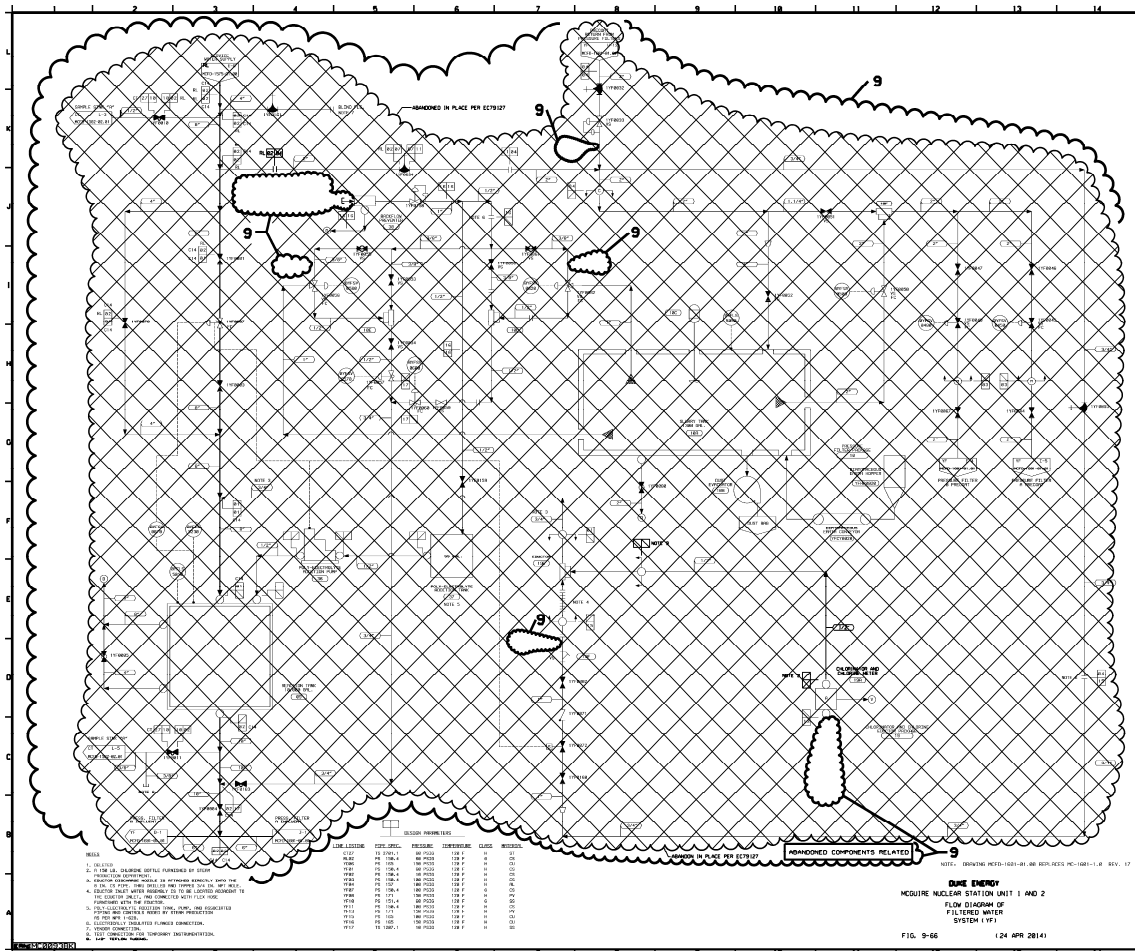


Figure 9-68. Filtered Water System (YF)

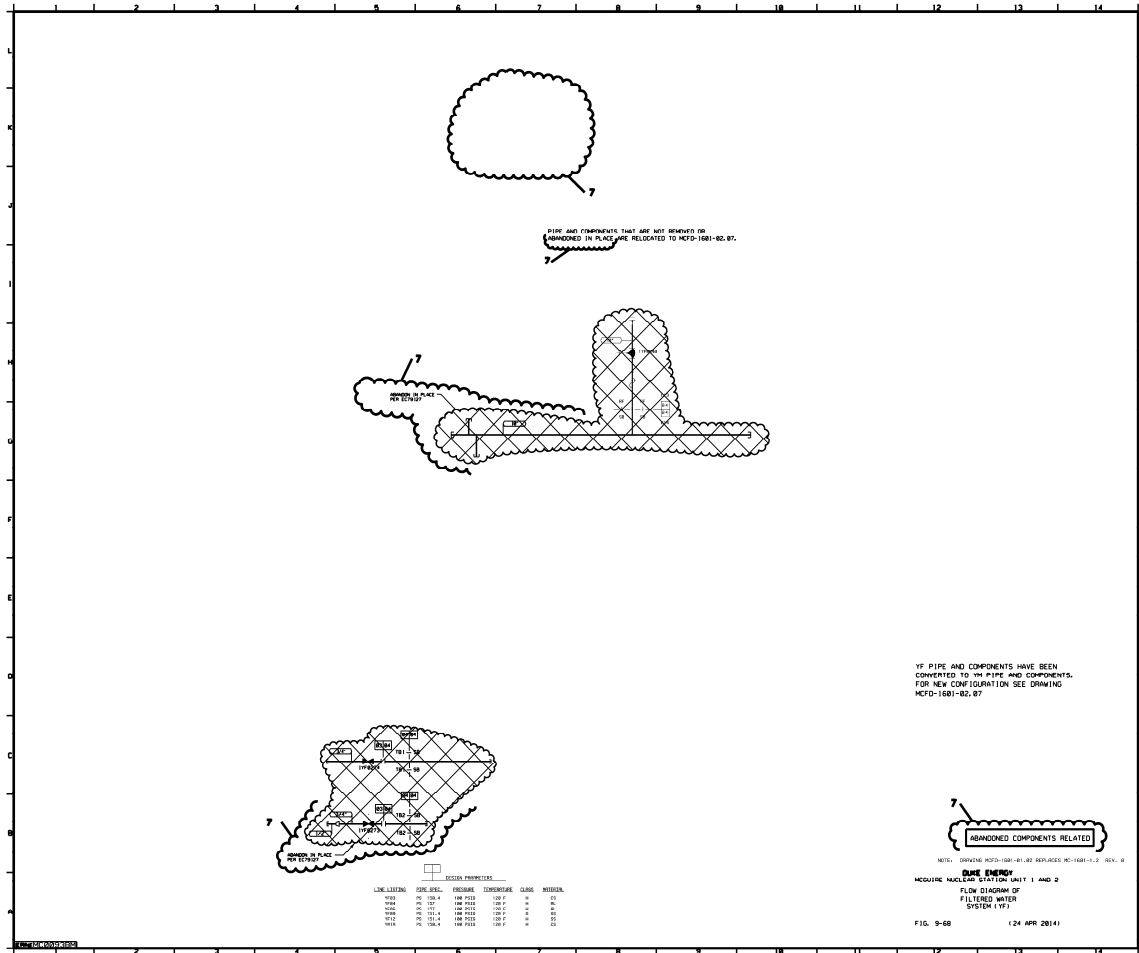


Figure 9-69. Flow Diagram of Makeup Demineralized Water System (YM)

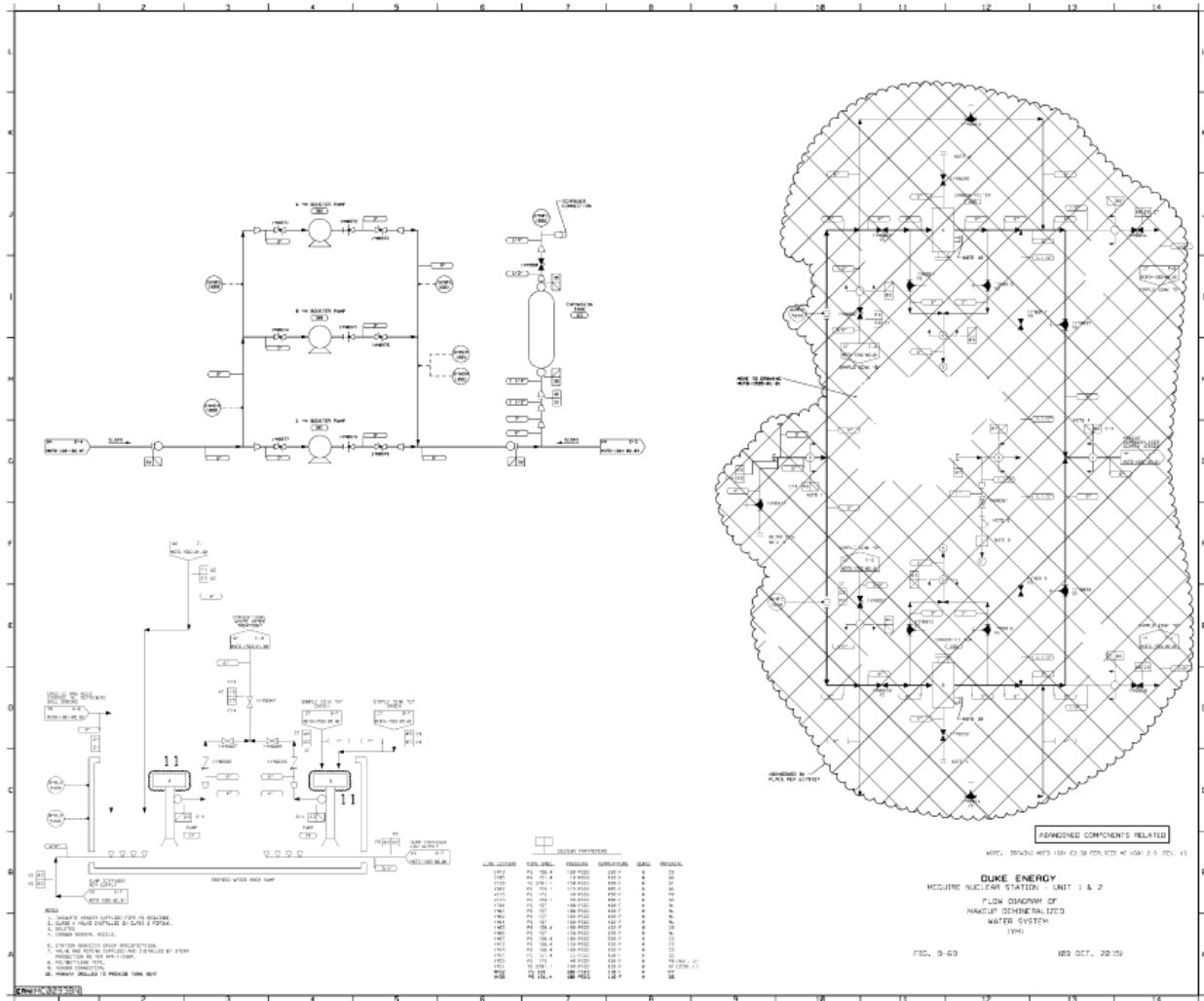


Figure 9-70. Flow Diagram of Makeup Demineralized Water System (YM)

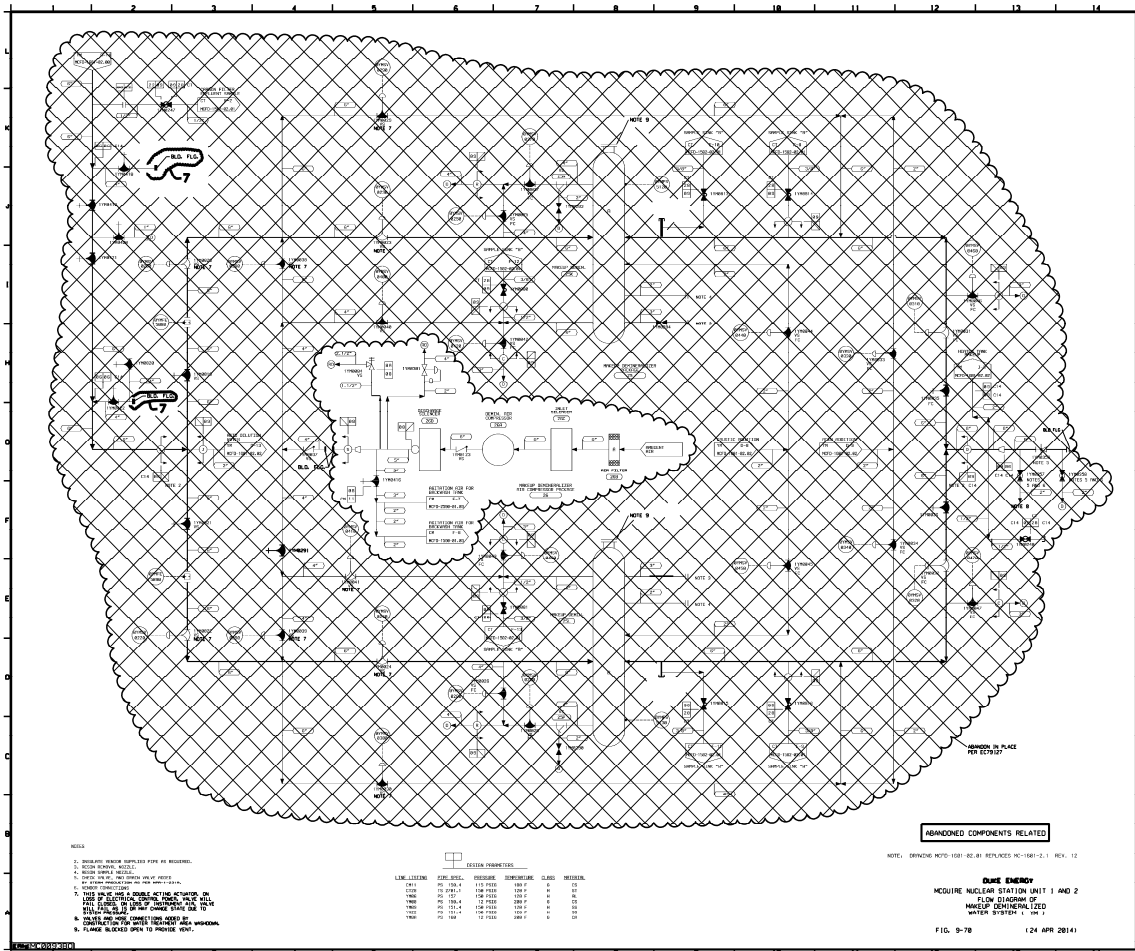


Figure 9-71. Flow Diagram of Makeup Demineralized Water System (YM)

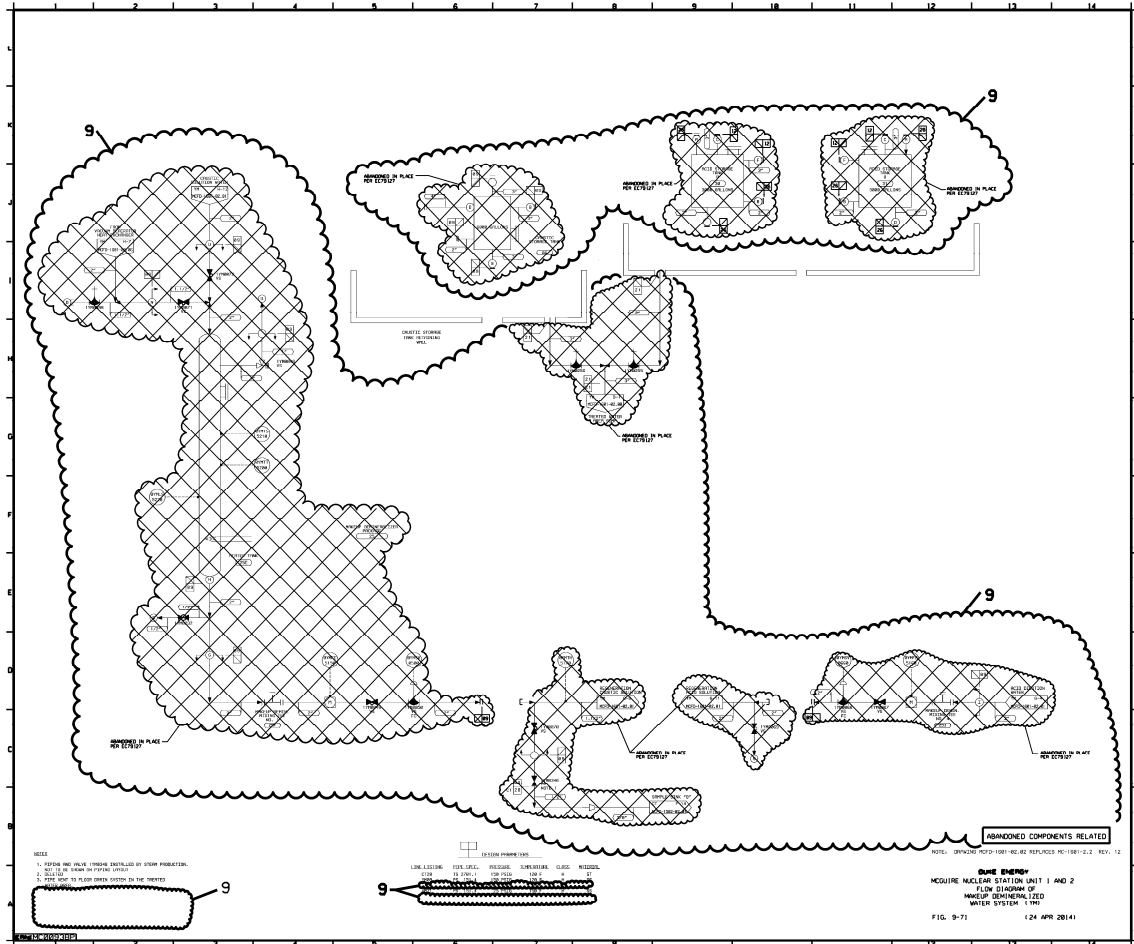


Figure 9-72. Flow Diagram of Makeup Demineralized Water System (YM)

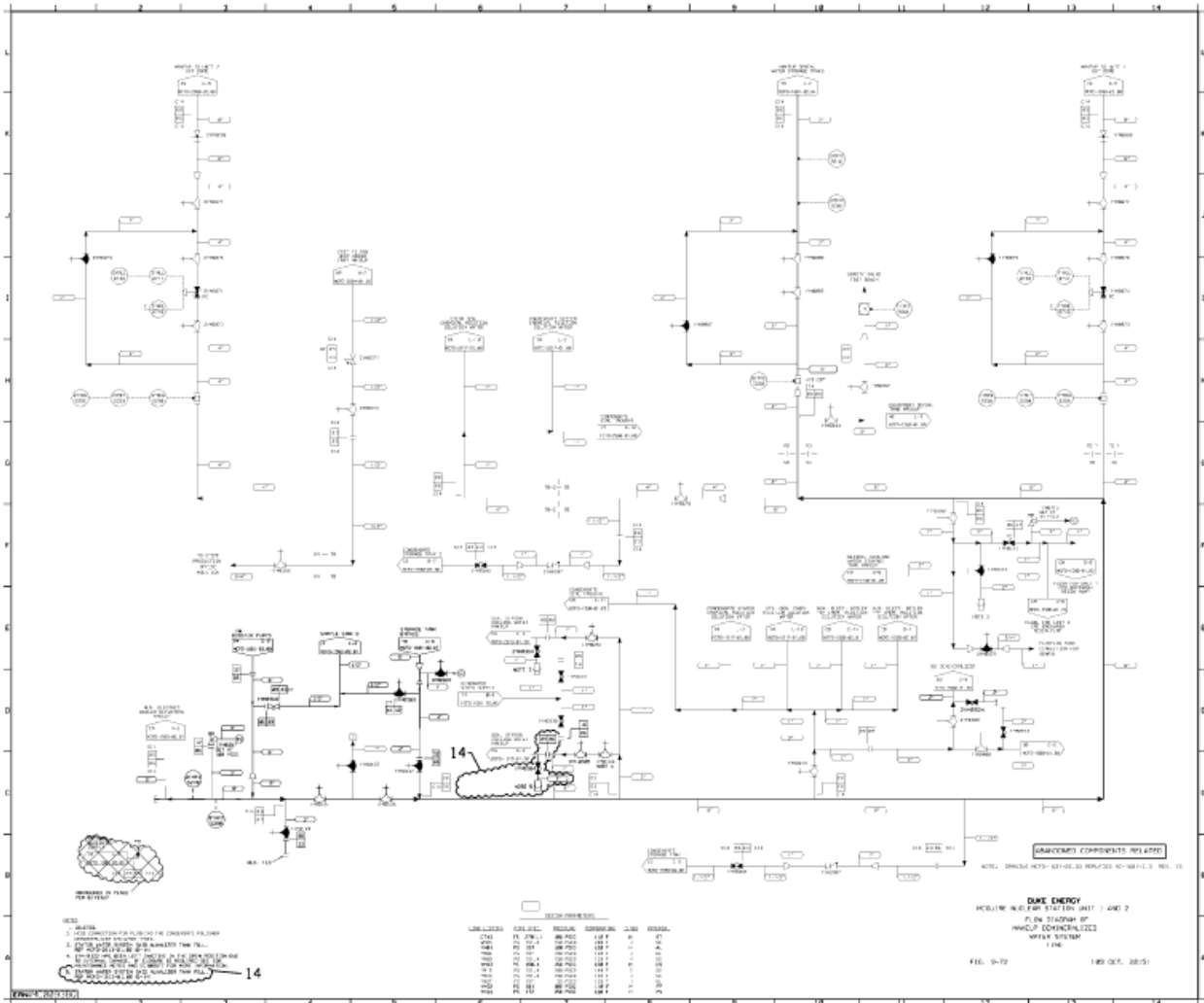


Figure 9-73. Makeup Demineralized Water System (YM)

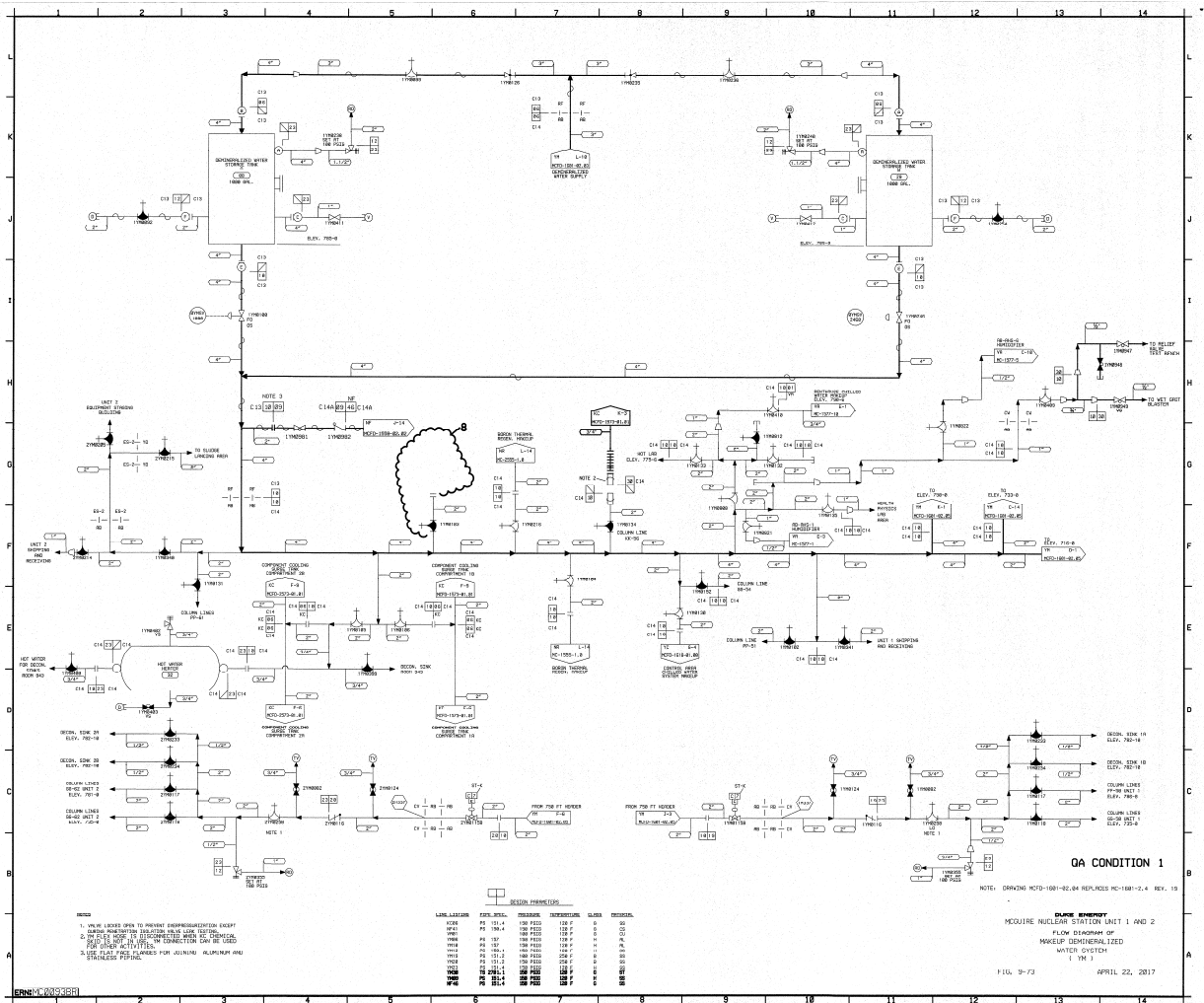


Figure 9-75. Flow Diagram of Makeup Demineralized Water System (YM)

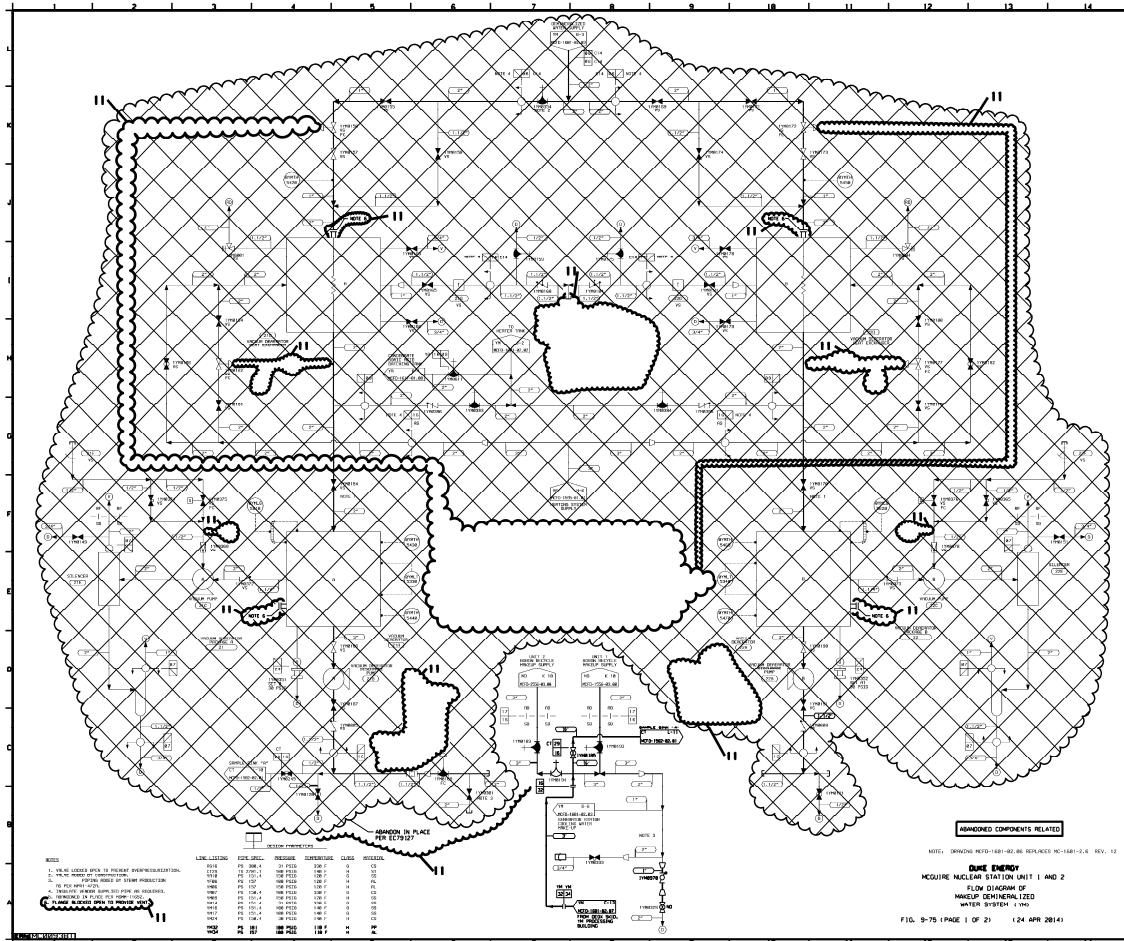
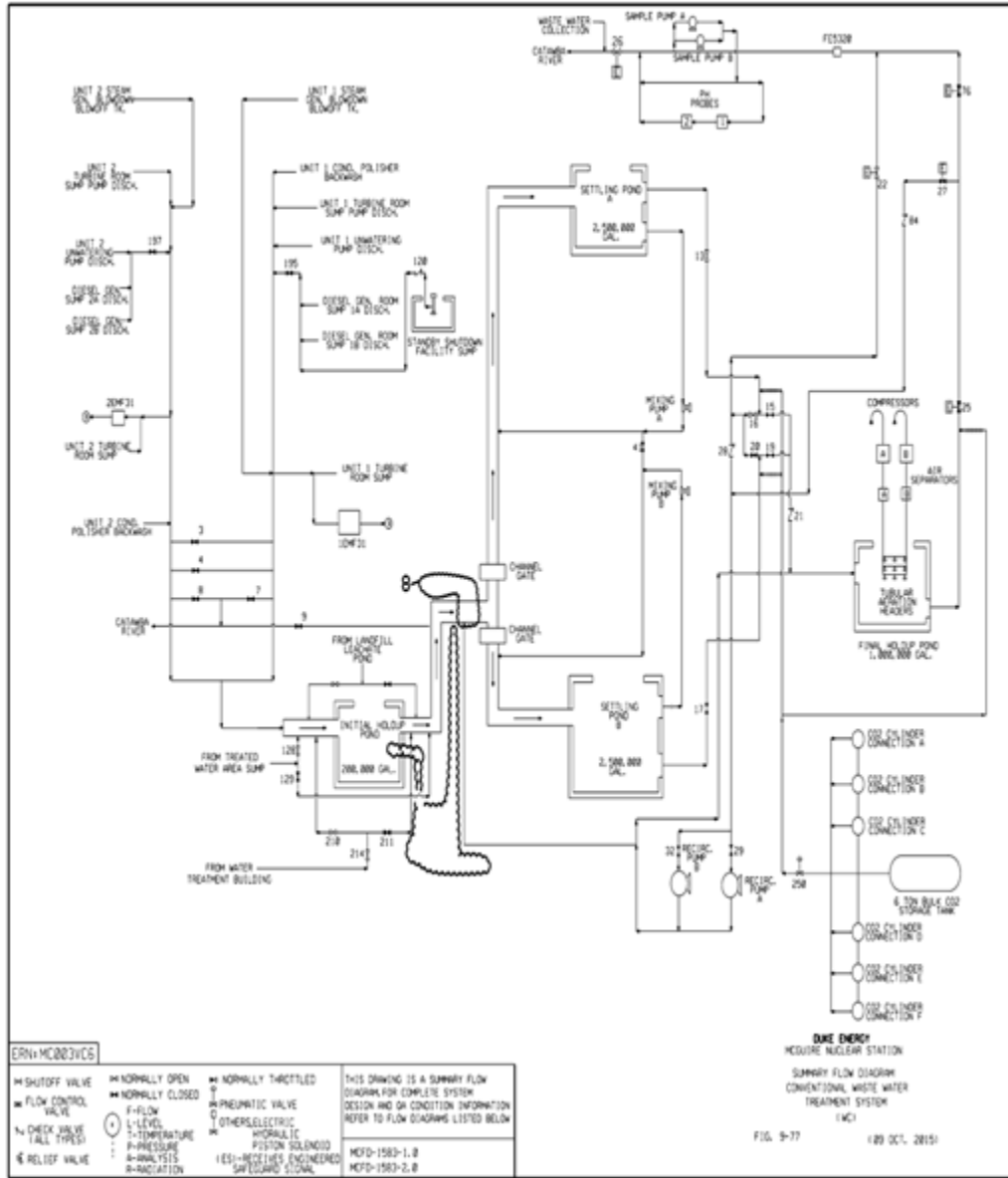


Figure 9-77. Flow Diagram of Conventional Waste Water Treatment System (WC)



ERN+MCD/3VCS

■ SHUTOFF VALVE
 ■ FLOW CONTROL VALVE
 ✓ CHECK VALVE (ALL TYPES)
 ■ RELIEF VALVE
 ○ NORMALLY OPEN
 ■ NORMALLY CLOSED
 F FLOW
 L LEVEL
 T TEMPERATURE
 P PRESSURE
 A ANALYSIS
 R RADIATION
 ■ NORMALLY THROTTLED
 P PNEUMATIC VALVE
 Q OTHER/ELECTRIC
 H HYDRAULIC
 ■ PISTON SOLENOID
 (ES)-RECEIVES ENGINEERED SAFEGUARD SIGNAL

THIS DRAWING IS A SUMMARY FLOW DIAGRAM FOR COMPLETE SYSTEM DESIGN AND OR CONDITION INFORMATION REFER TO FLOW DIAGRAMS LISTED BELOW
 MFD-1563-1-B
 MFD-1563-2-B

ONE ENERGY
 MCUIRE NUCLEAR STATION
 SUMMARY FLOW DIAGRAM
 CONVENTIONAL WASTE WATER TREATMENT SYSTEM
 (WC)
 FIG. 9-77 (09 OCT. 2015)

Figure 9-78. Deleted Per 1993 Update

Figure 9-79. Summary Flow Diagram of Instrument Air System (VI)

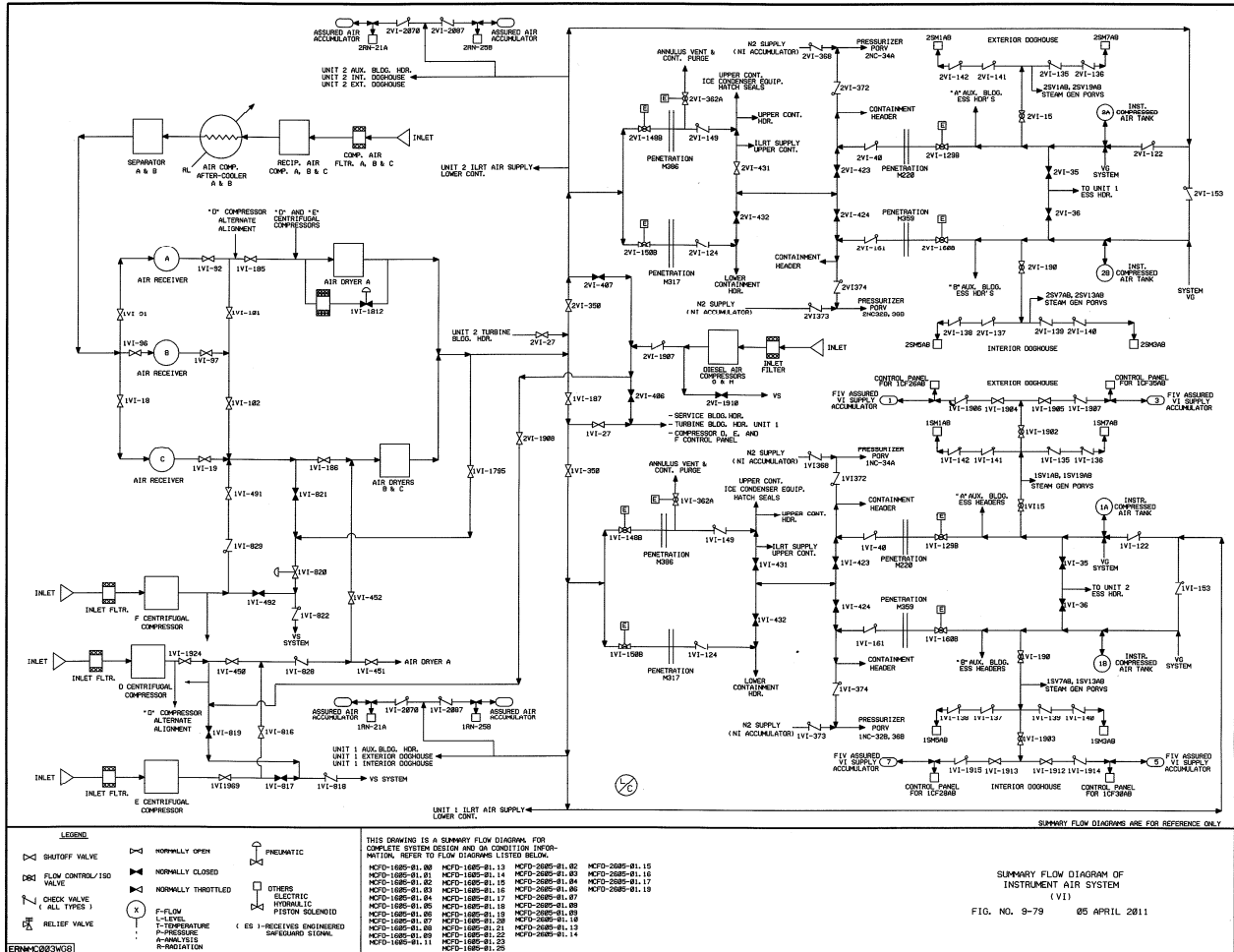


Figure 9-80. Deleted Per 1993 Update

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Figure 9-83. Flow Diagram of Station Air System

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Figure 9-84. Deleted Per 1993 Update

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Figure 9-89. Deleted Per 1993 Update

Figure 9-90. Summary Flow Diagram Of Nuclear Sampling System (NM)

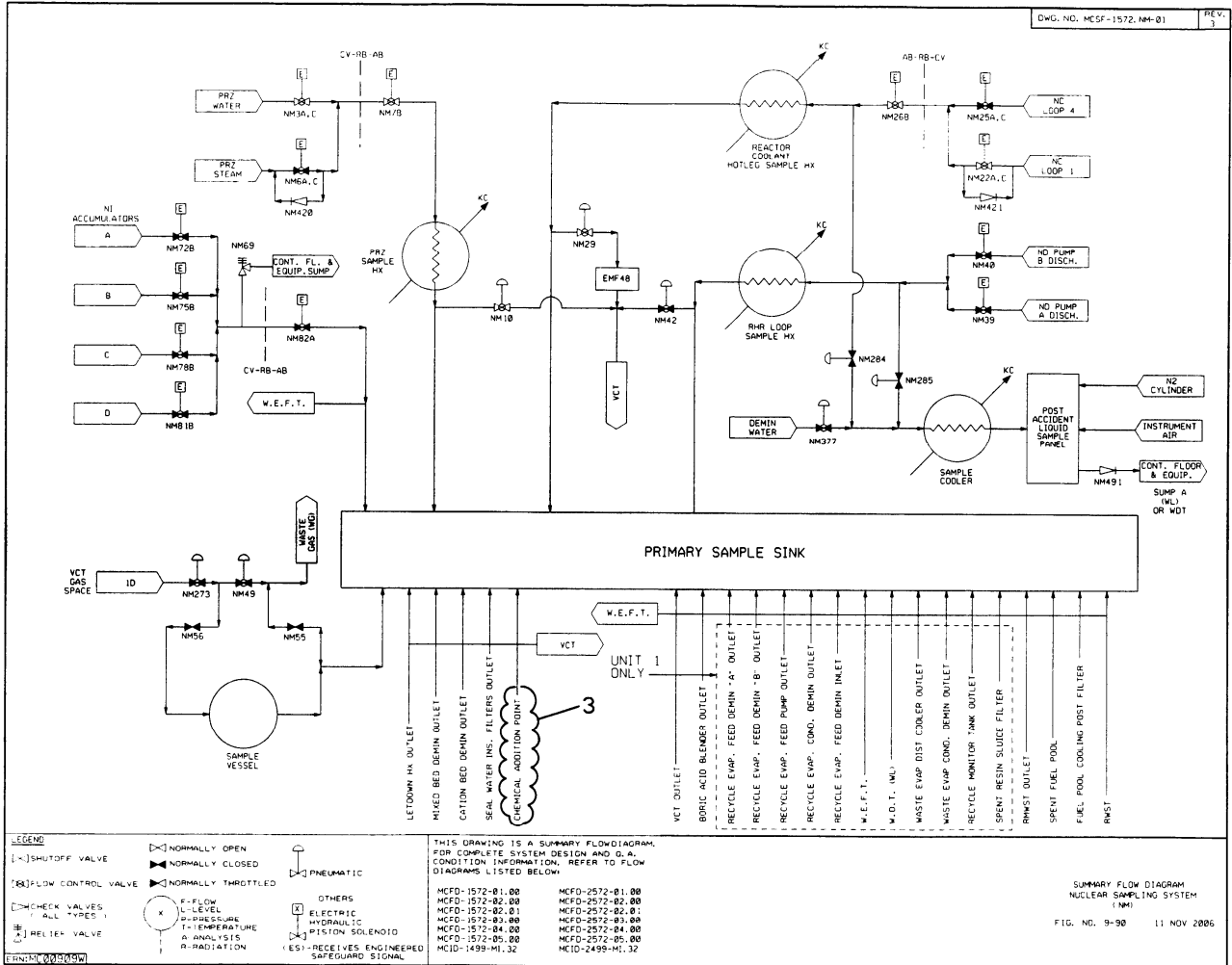


Figure 9-91. Flow Diagram of Nuclear Sampling System

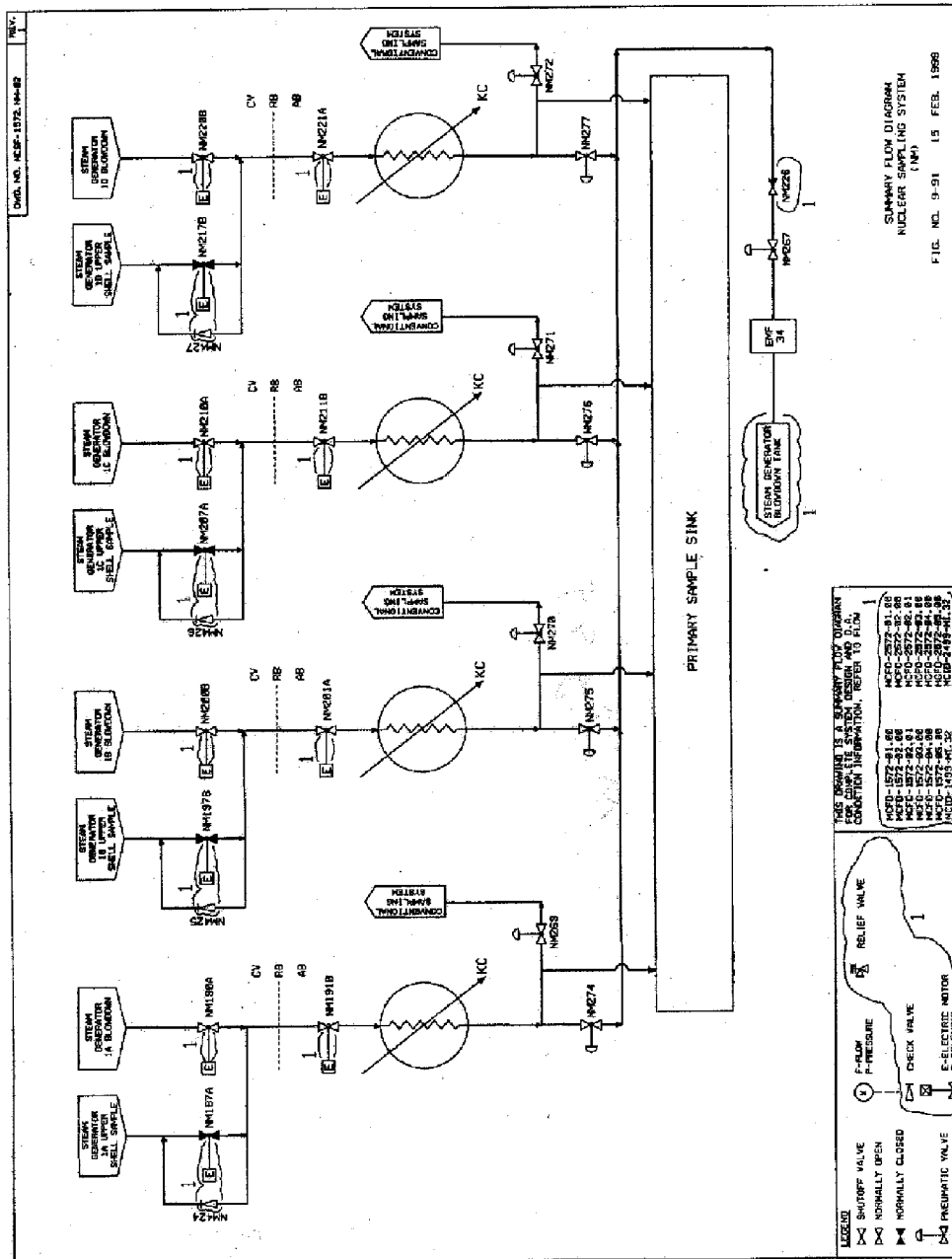


Figure 9-92. Flow Diagram of Nuclear Sampling System

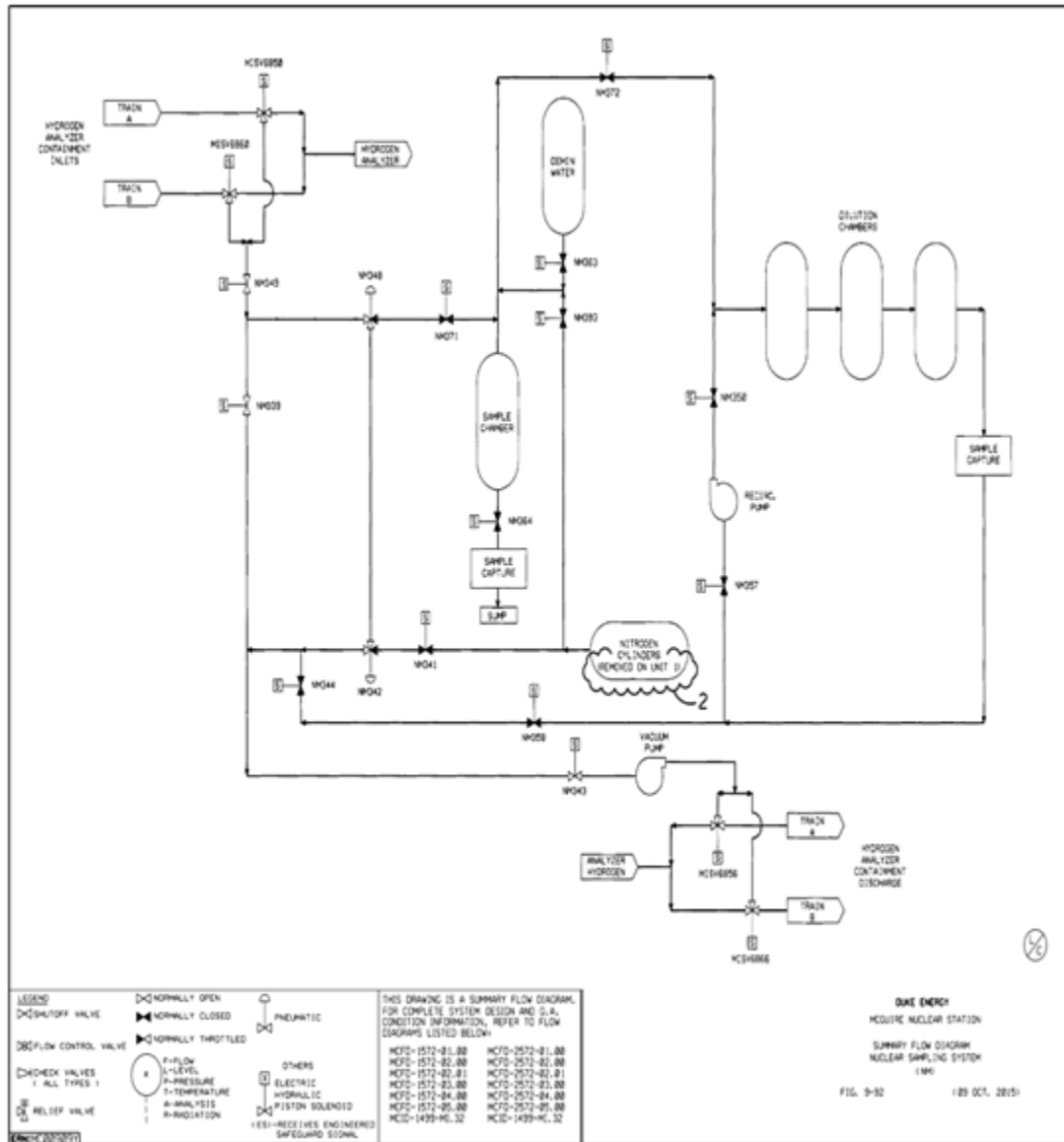


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Figure 9-95. Deleted Per 1993 Update

Figure 9-96. Flow Diagram of Chemical and Volume Control System

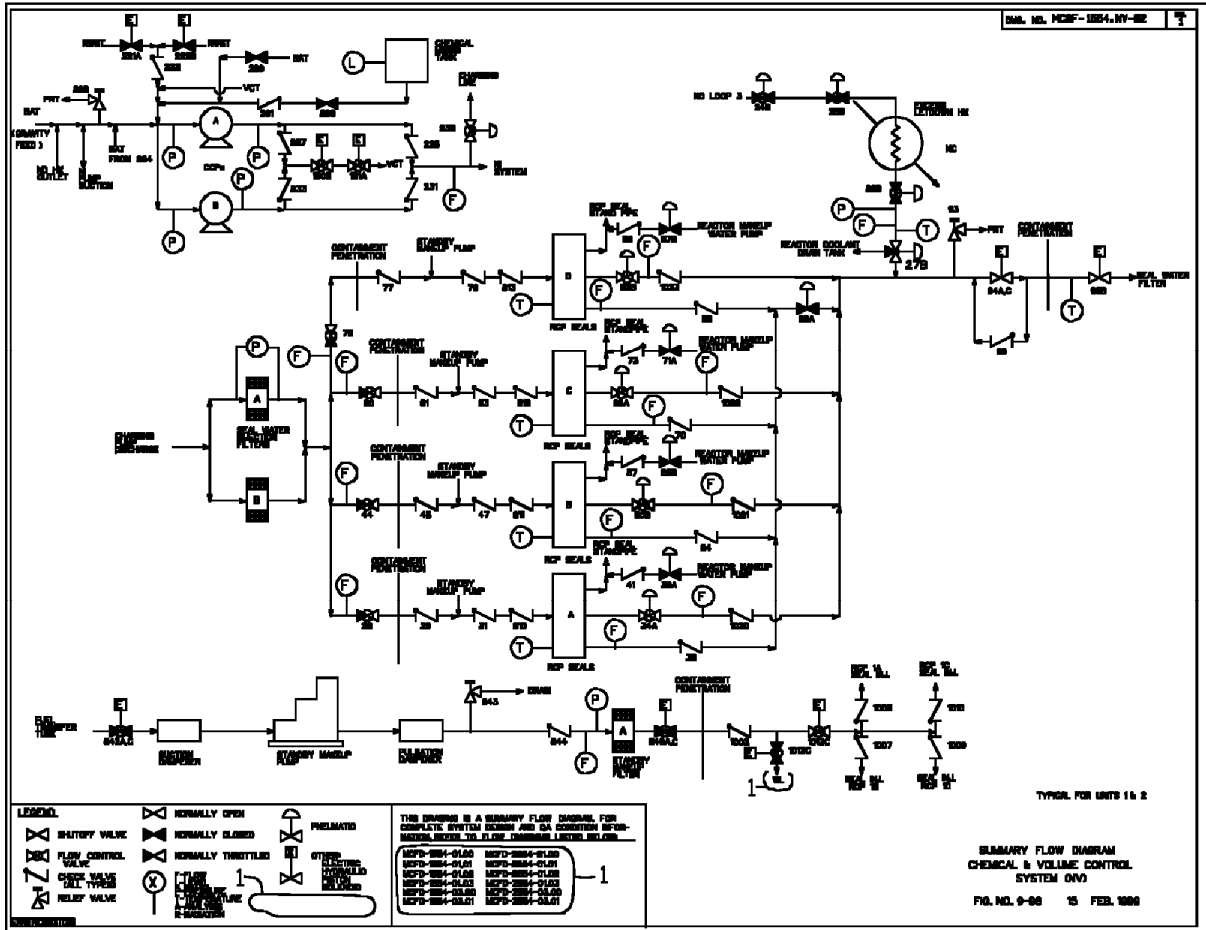


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Figure 9-98. Summary Flow Diagram of Chemical and Volume Control System (NV)

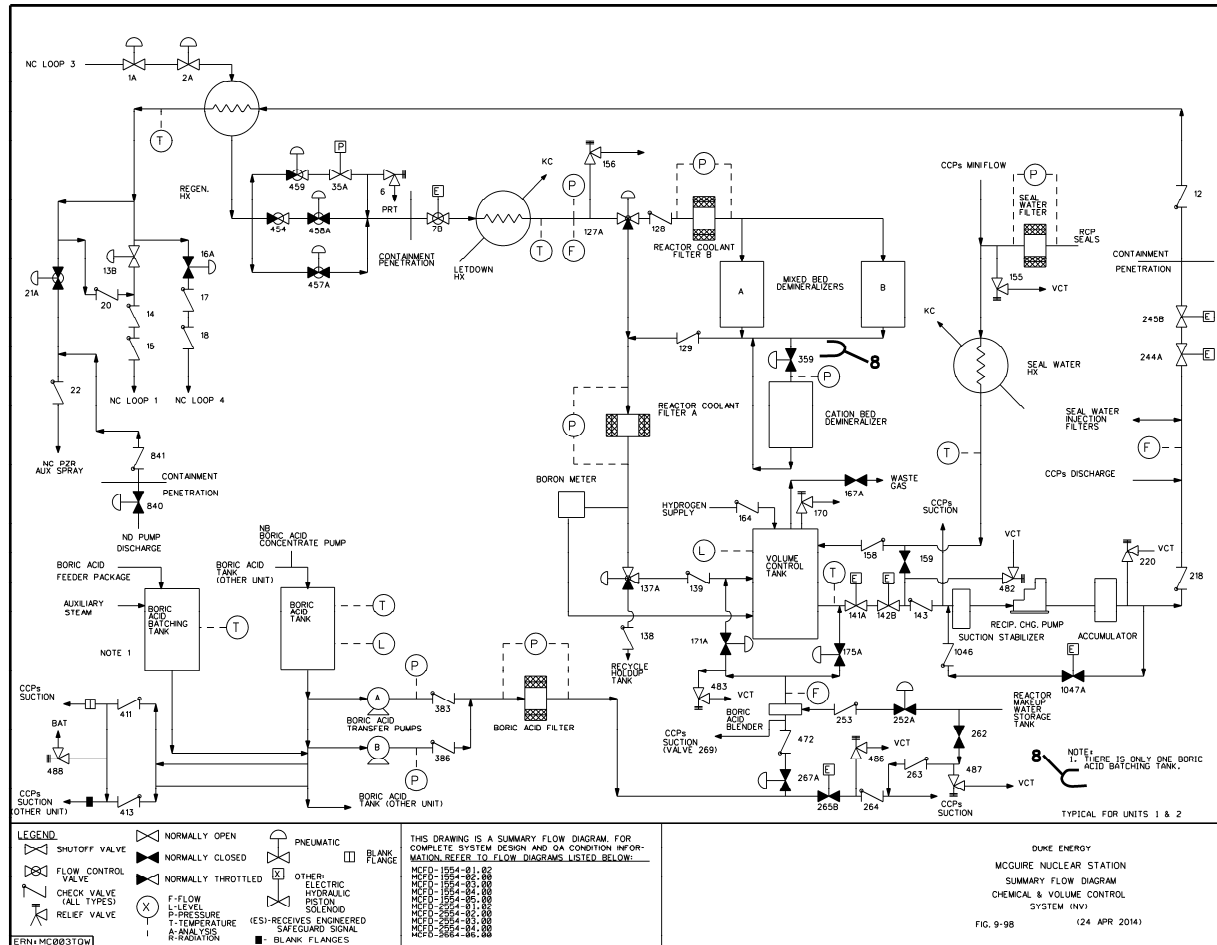


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Figure 9-107. Flow Diagram of Boron Thermal Regeneration System (NR)

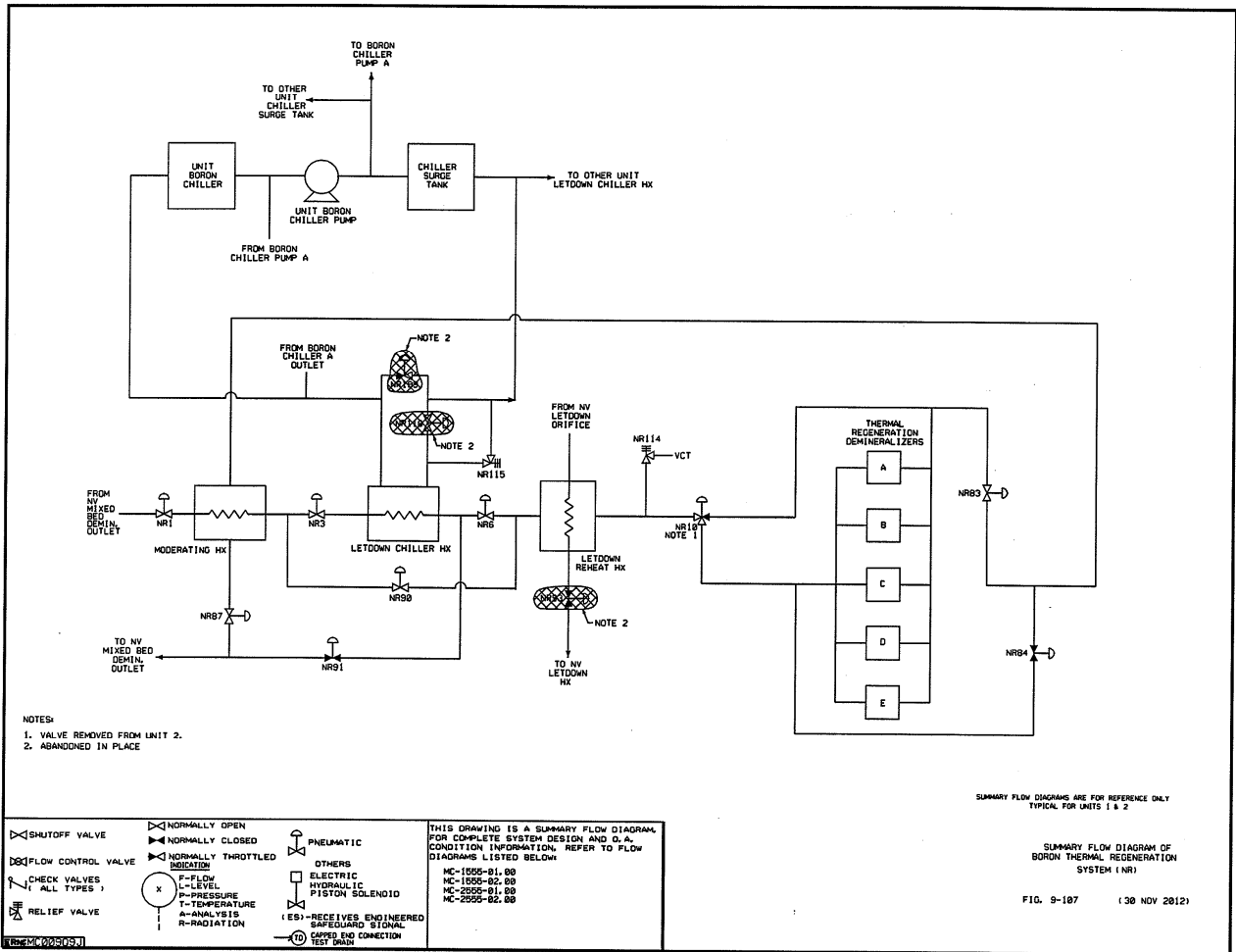


Figure 9-108. Flow Diagram of Boron Thermal Regeneration System

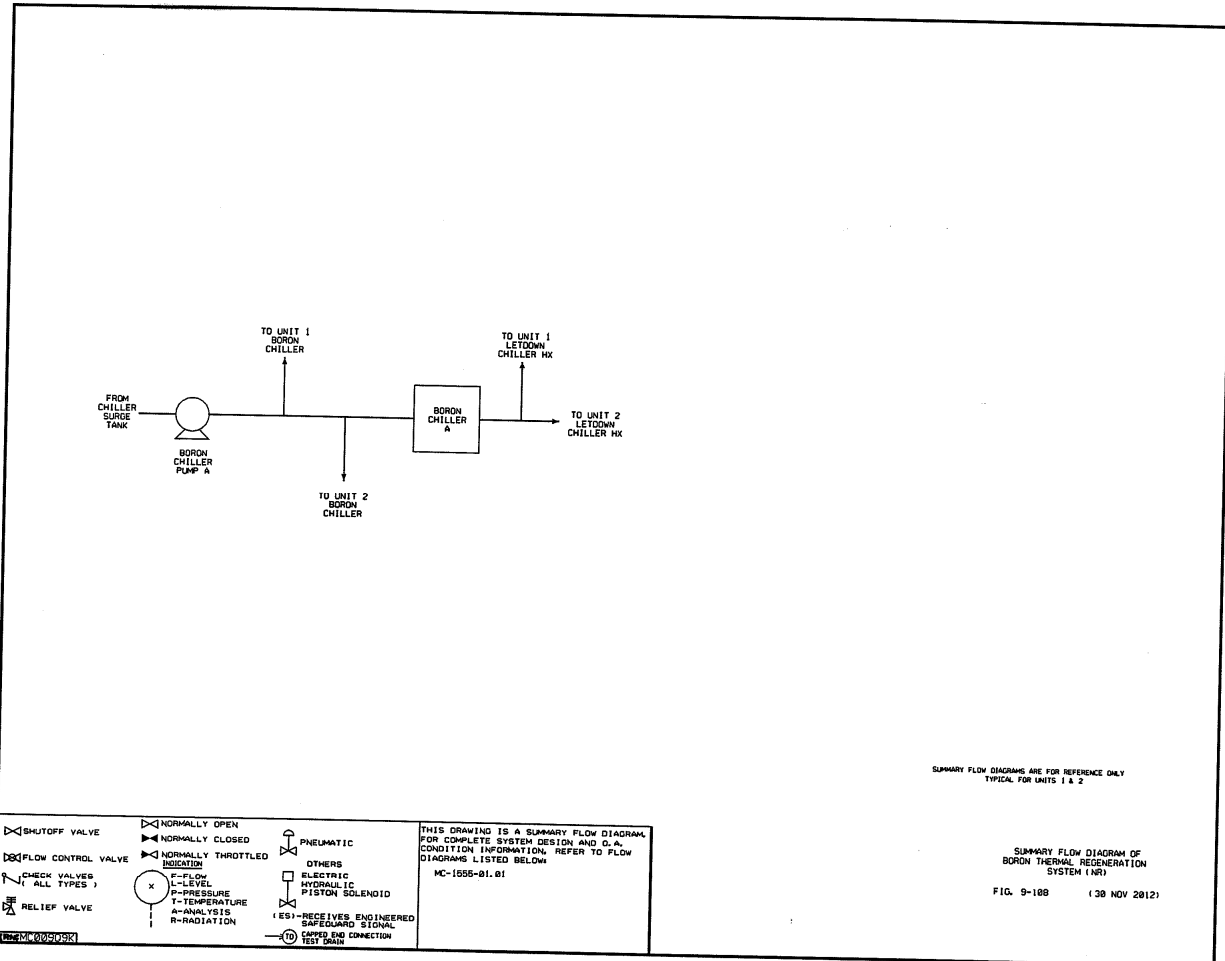


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Figure 9-110. Flow Diagram of Boron Recycle System (NB)

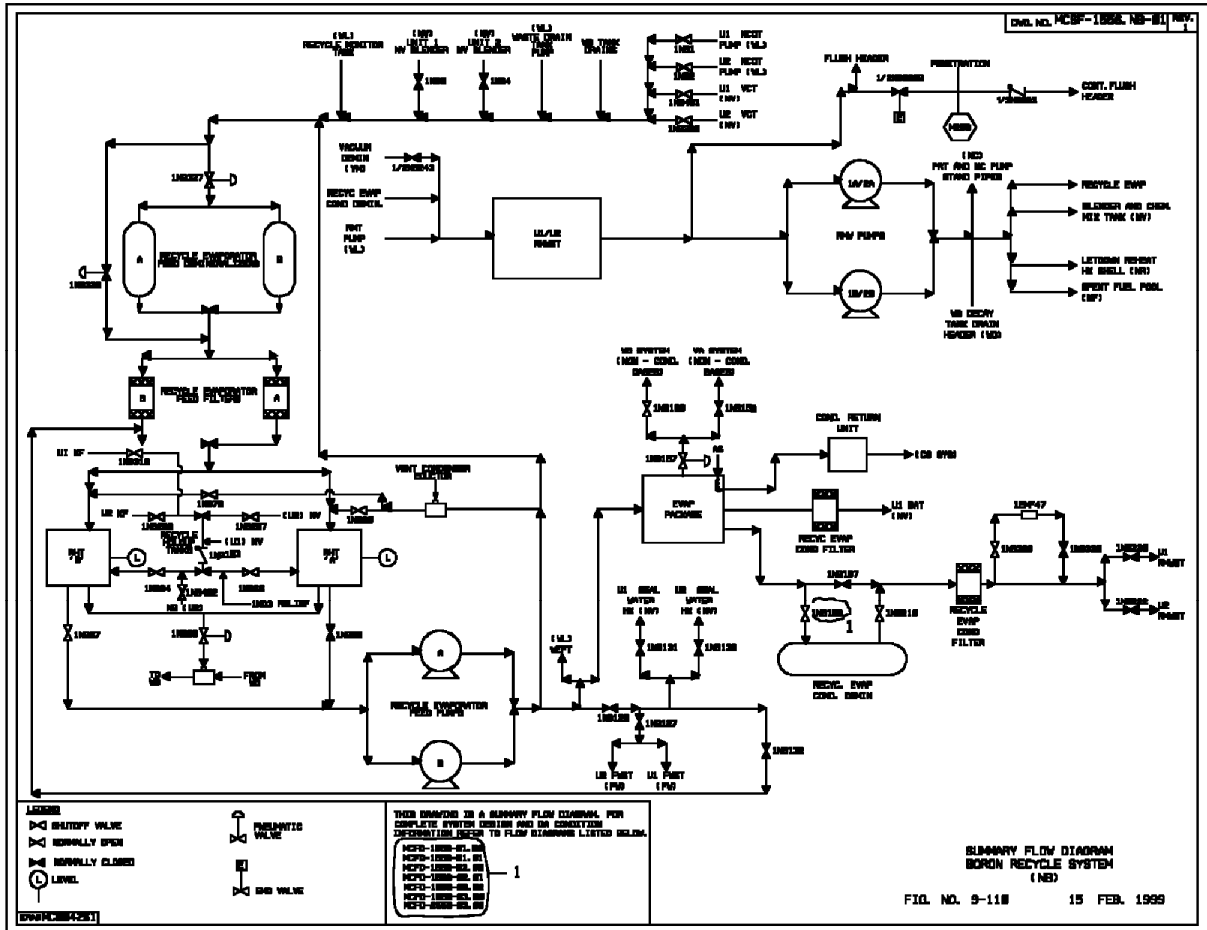


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Figure 9-116. Deleted Per 2002 Update

Figure 9-118. Flow Diagram of Auxiliary Building Ventilation System

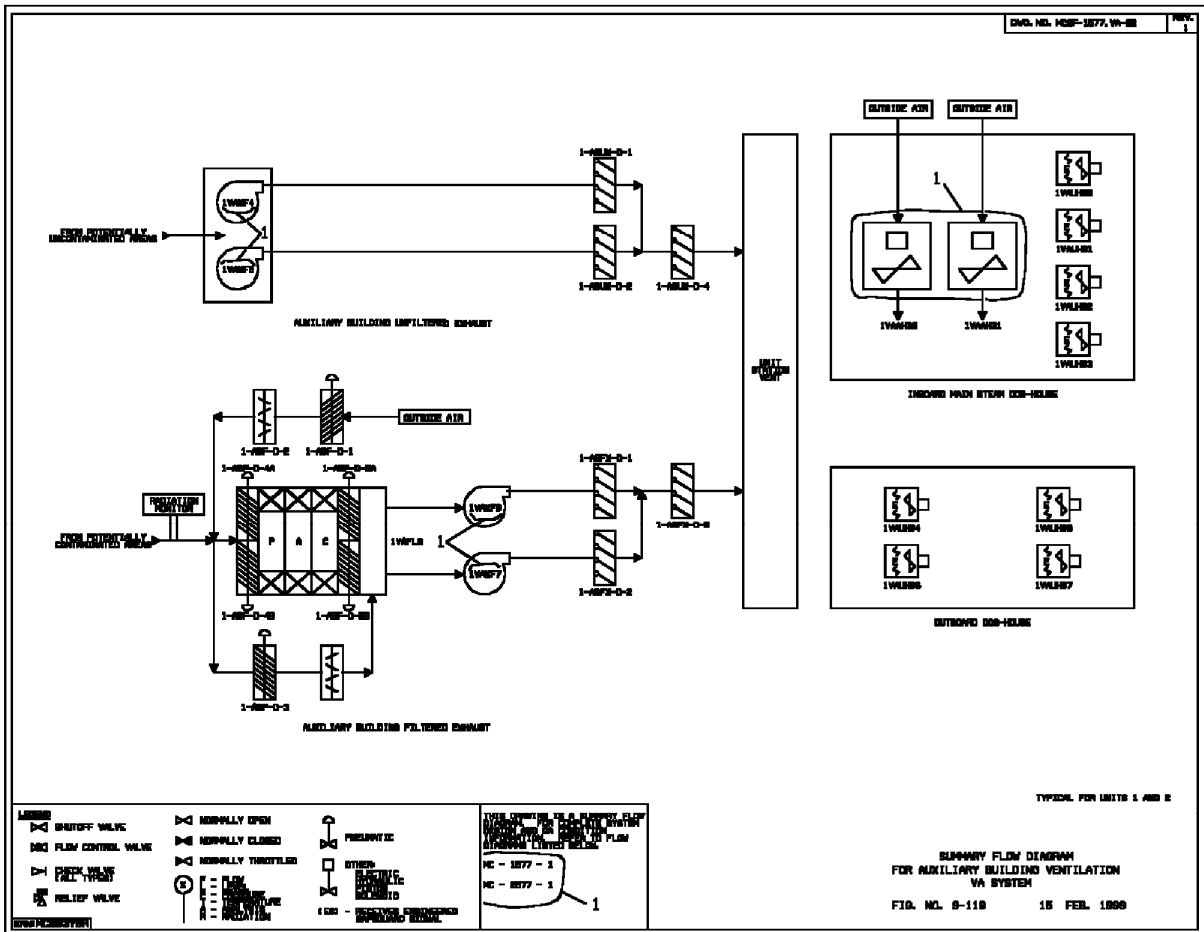


Figure 9-119. Summary Flow Diagram of Auxiliary Building Ventilation (VA) System

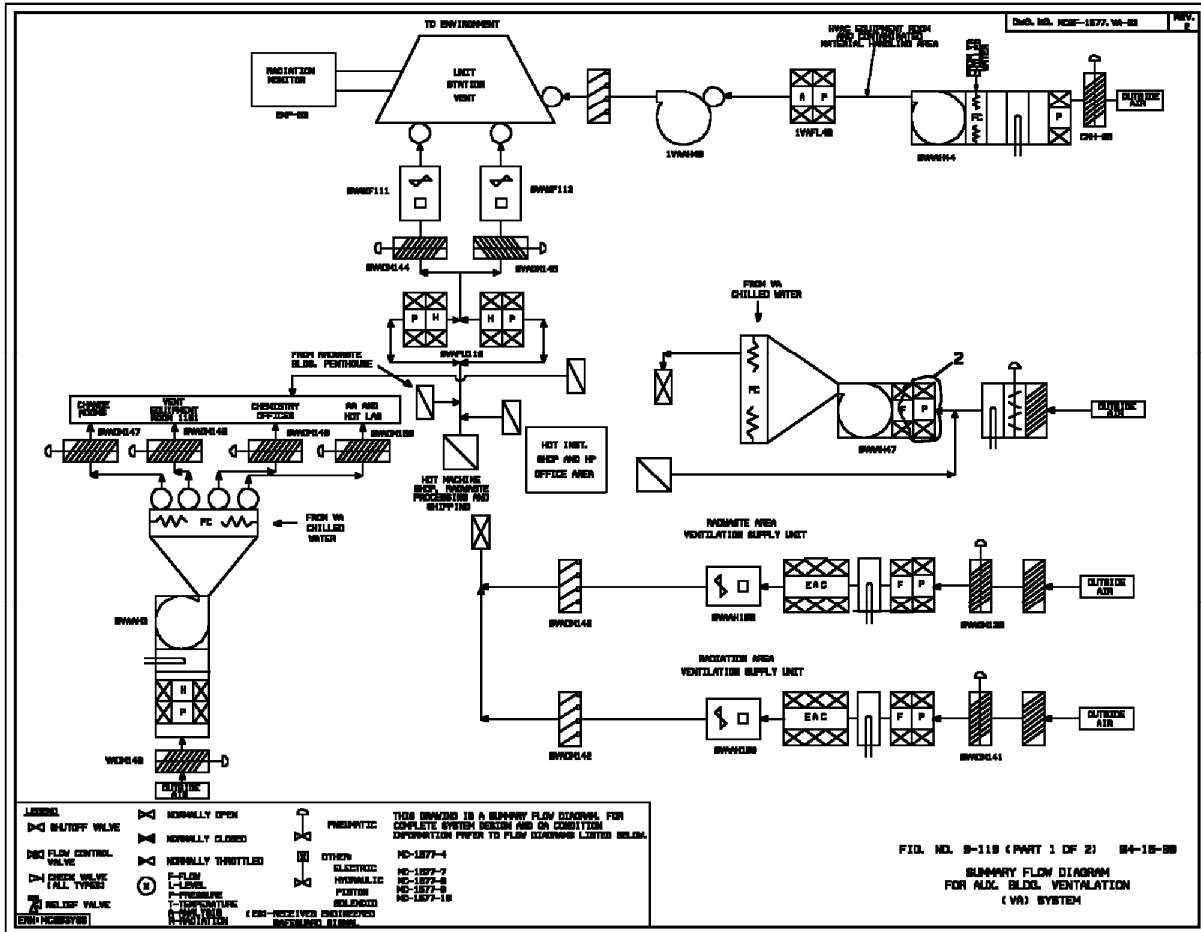


Figure 9-120. Flow Diagram of Turbine Building Ventilation System

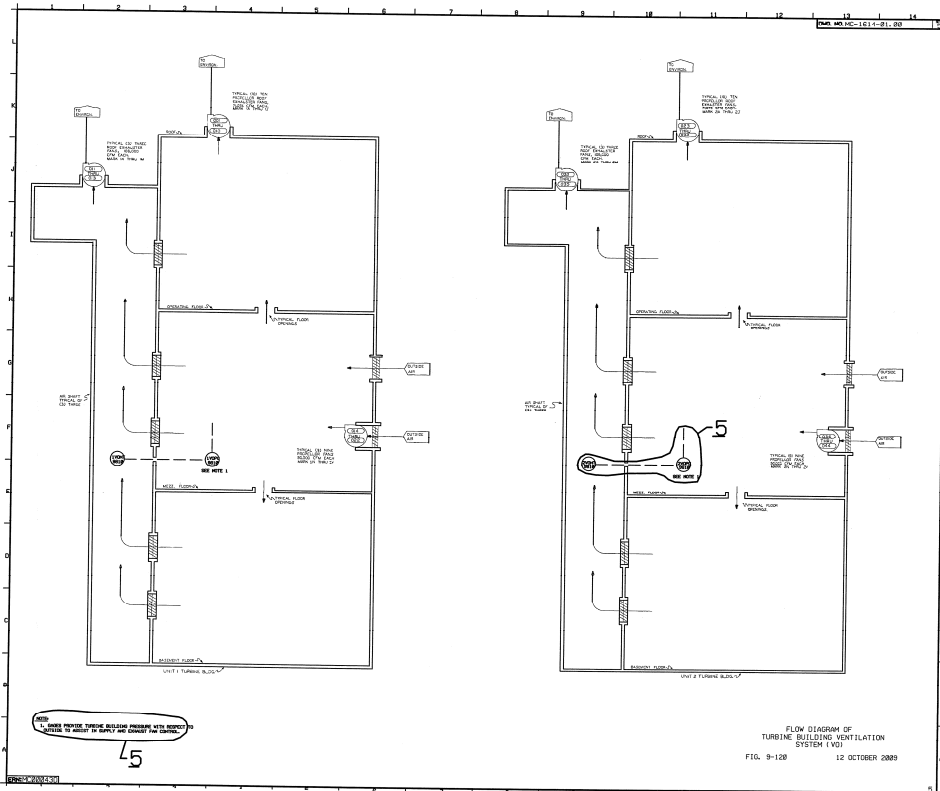


Figure 9-121. Flow Diagram of Containment Purge and Ventilation System (VP)

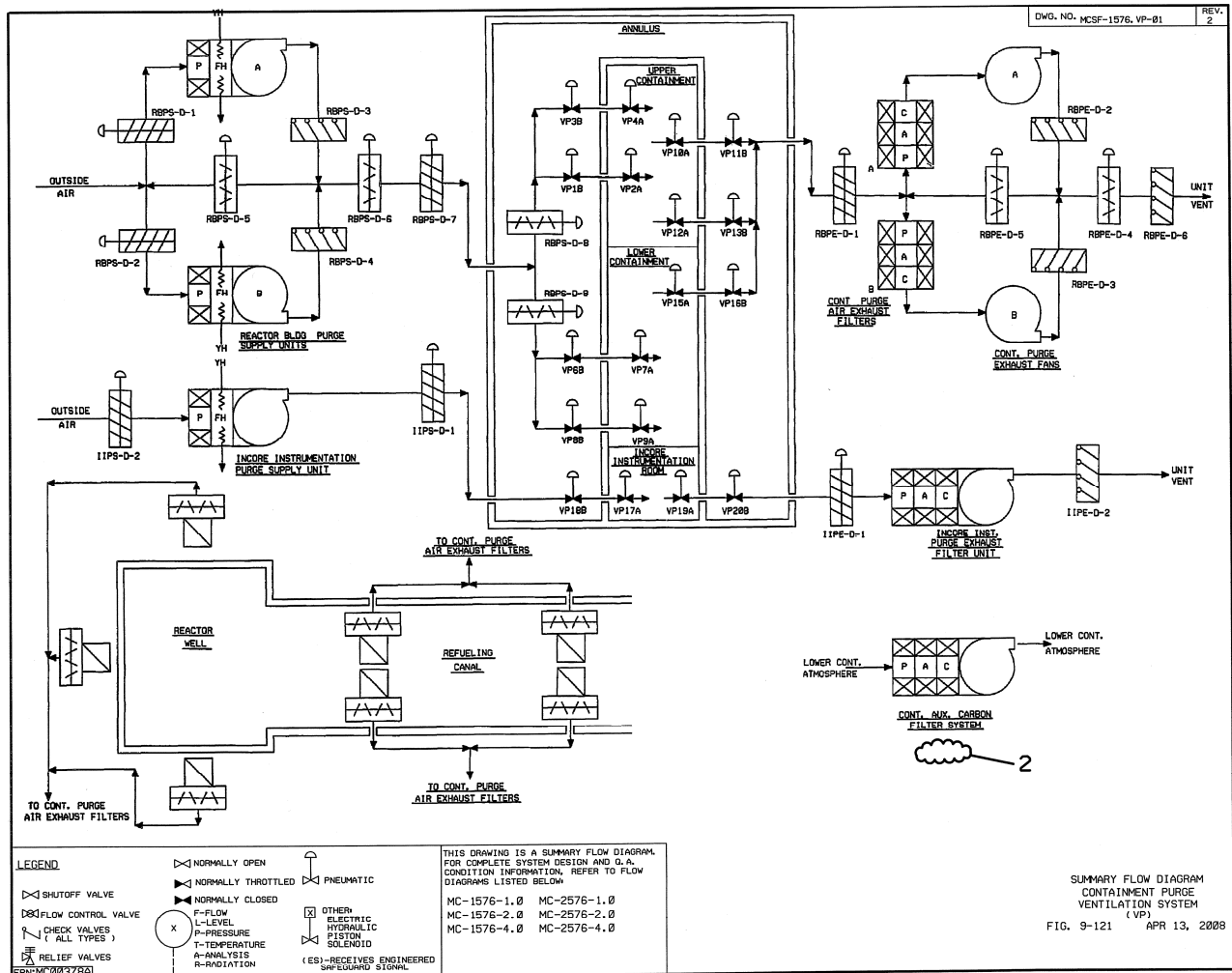


Figure 9-122. Deleted Per 1994 Update

Figure 9-123. Flow Diagram of Diesel Building Ventilation System

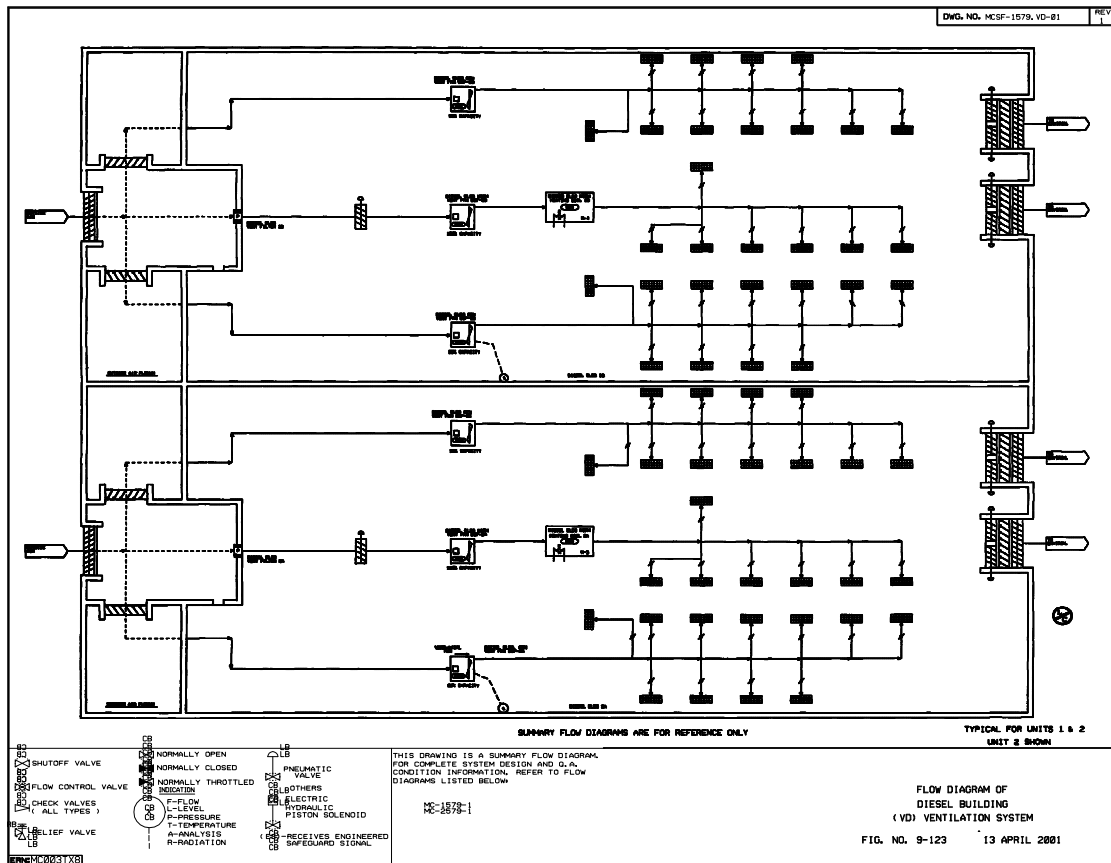


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Figure 9-125. Deleted Per 2018 Update

Figure 9-126. Deleted Per 1993 Update

Figure 9-127. Deleted Per 1993 Update

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Figure 9-131. Deleted Per 1993 Update

Figure 9-132. Communication Systems

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Figure 9-133. Communication Systems

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Figure 9-134. Communication Systems

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Figure 9-135. Communication Systems

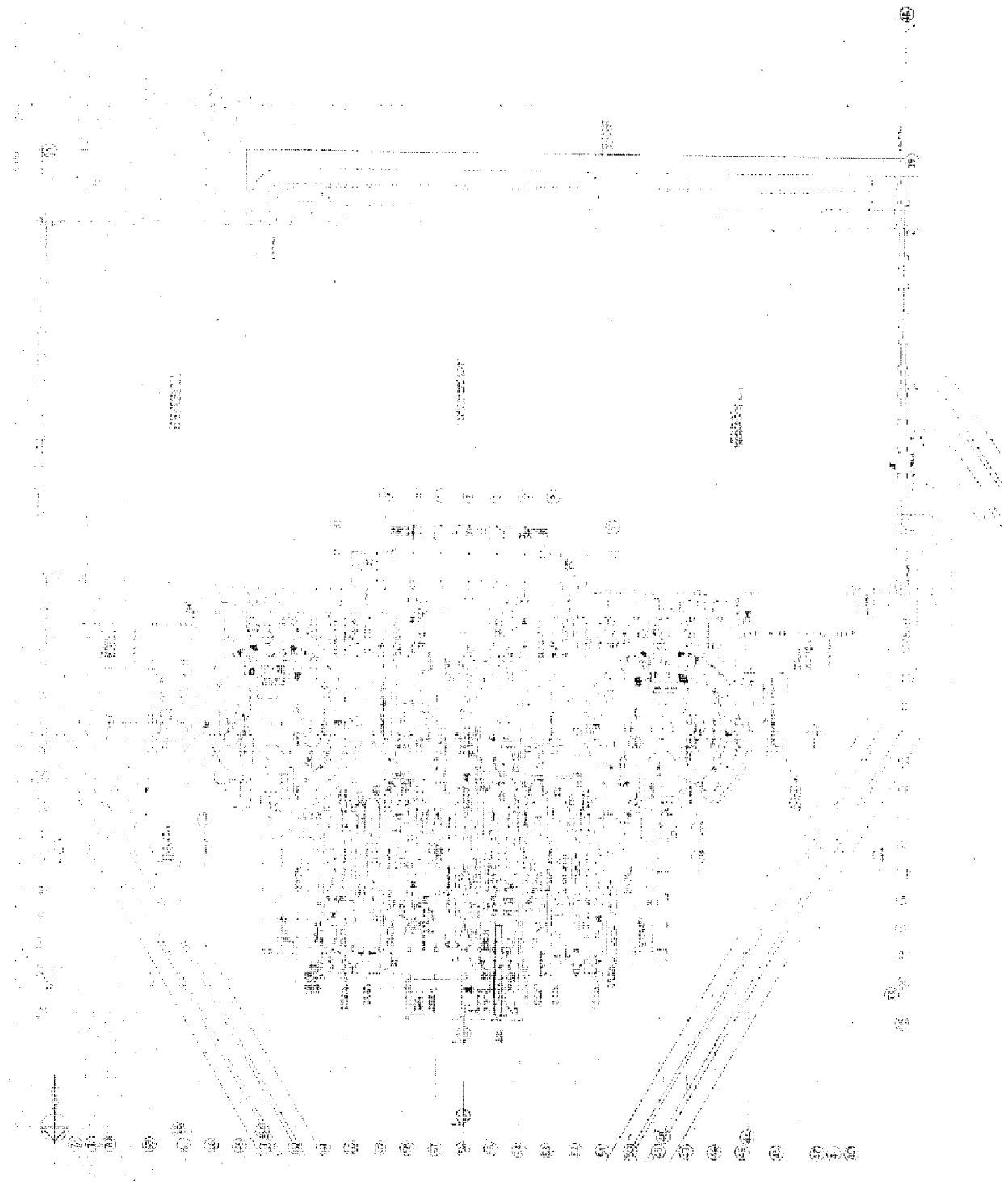


Figure 9-136. Communication Systems

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Figure 9-137. Communication Systems

Security-Related Information - Figure Withheld Under 10 CFR 2.390

Figure 9-138. Communication Systems

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Figure 9-140. Deleted Per 1993 Update

Figure 9-141. Flow Diagram of Diesel Generator Engine Cooling Water System

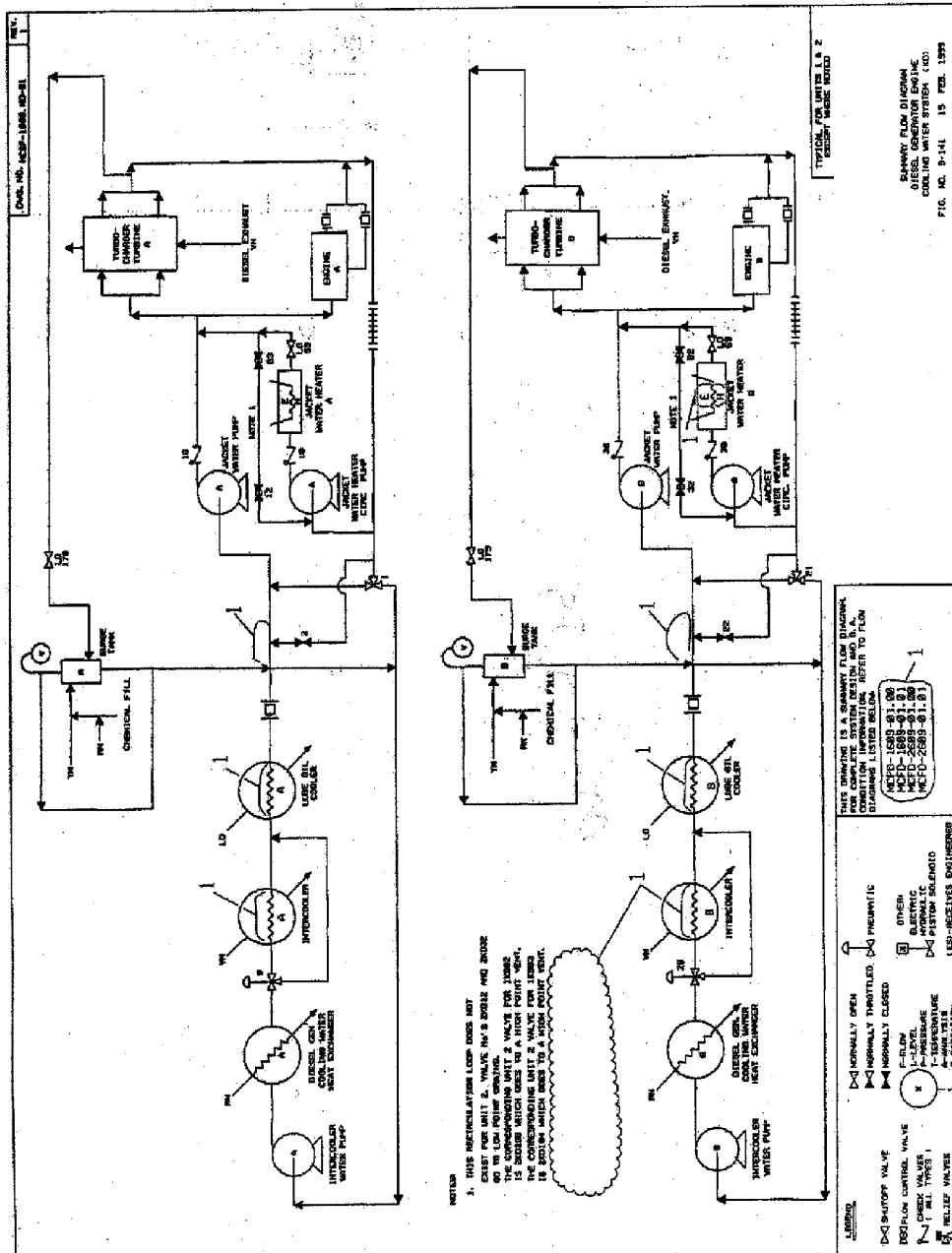


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Figure 9-143. Flow Diagram of Diesel Generator Engine Starting Air System (VG)

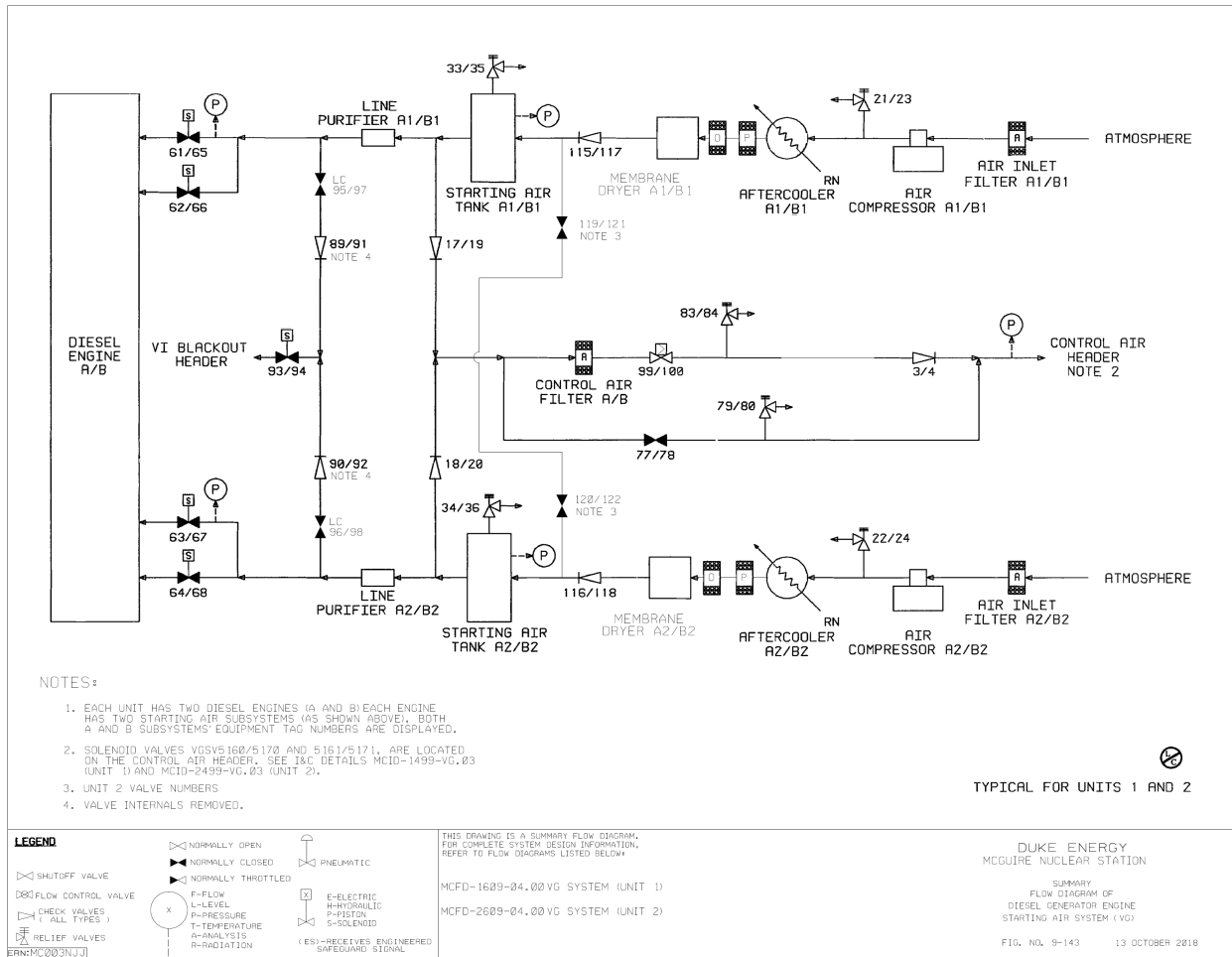


Figure 9-144. Flow Diagram of Diesel Generator Engine Lube Oil System

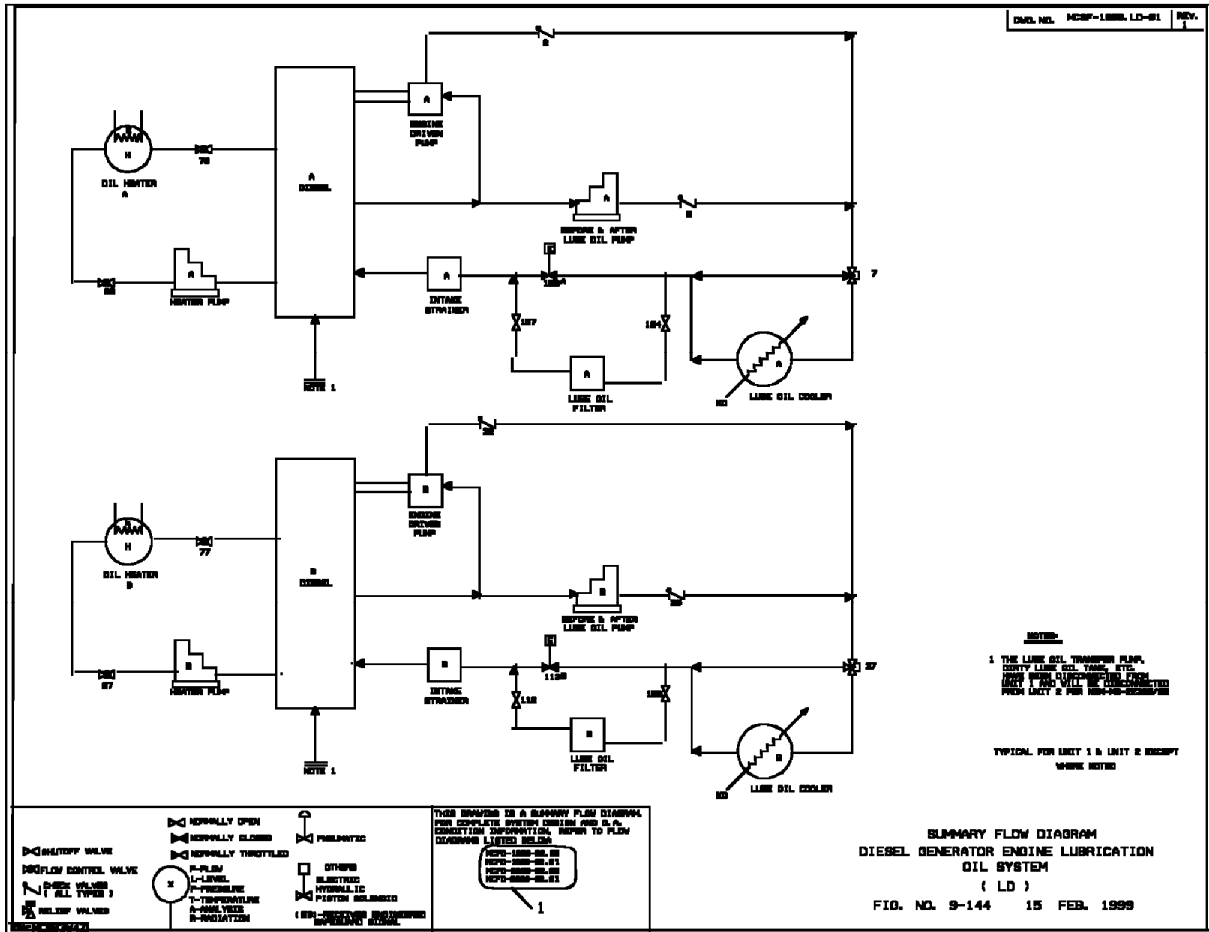


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Figure 9-146. Groundwater Drainage System

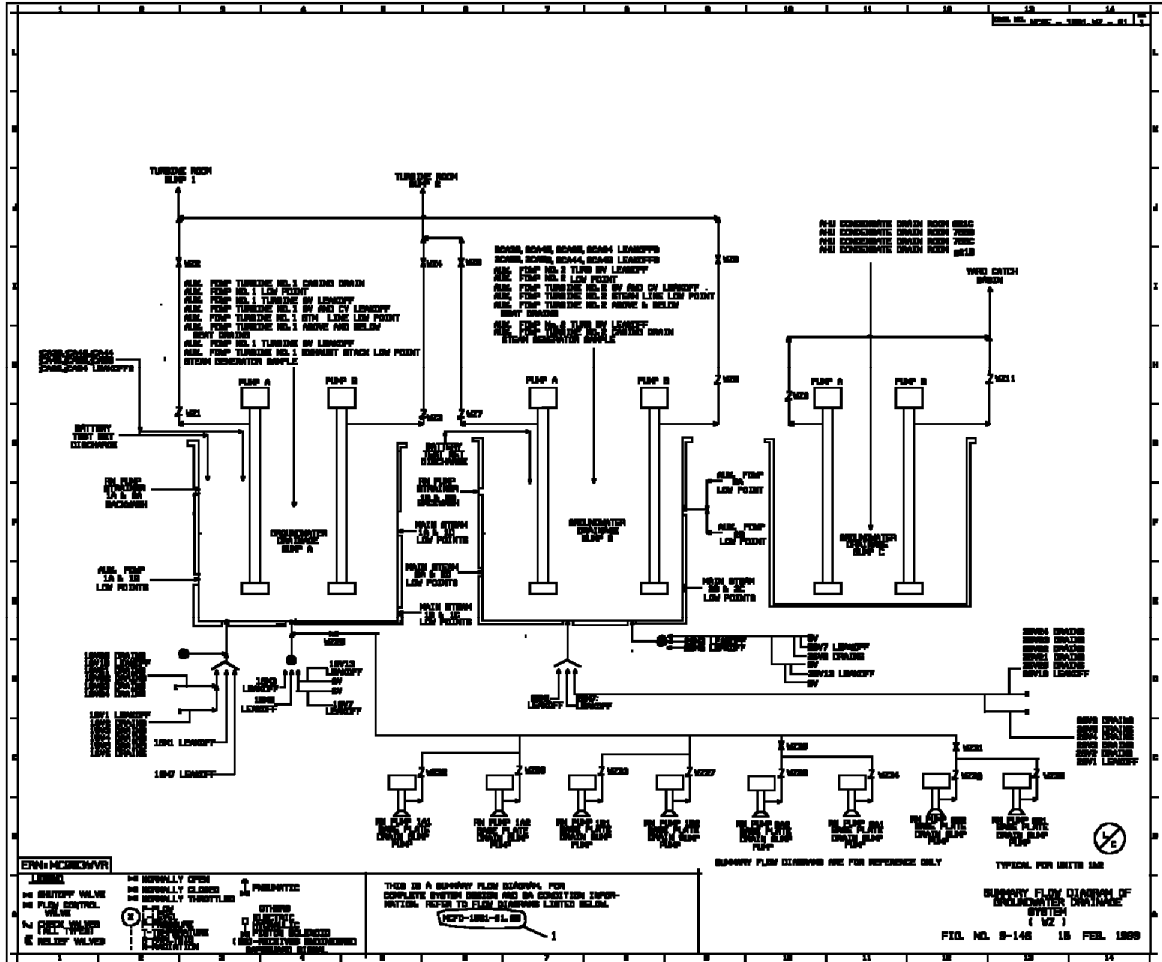


Figure 9-147. Flow Diagram of Diesel Generator Engine Crankcase Vacuum System

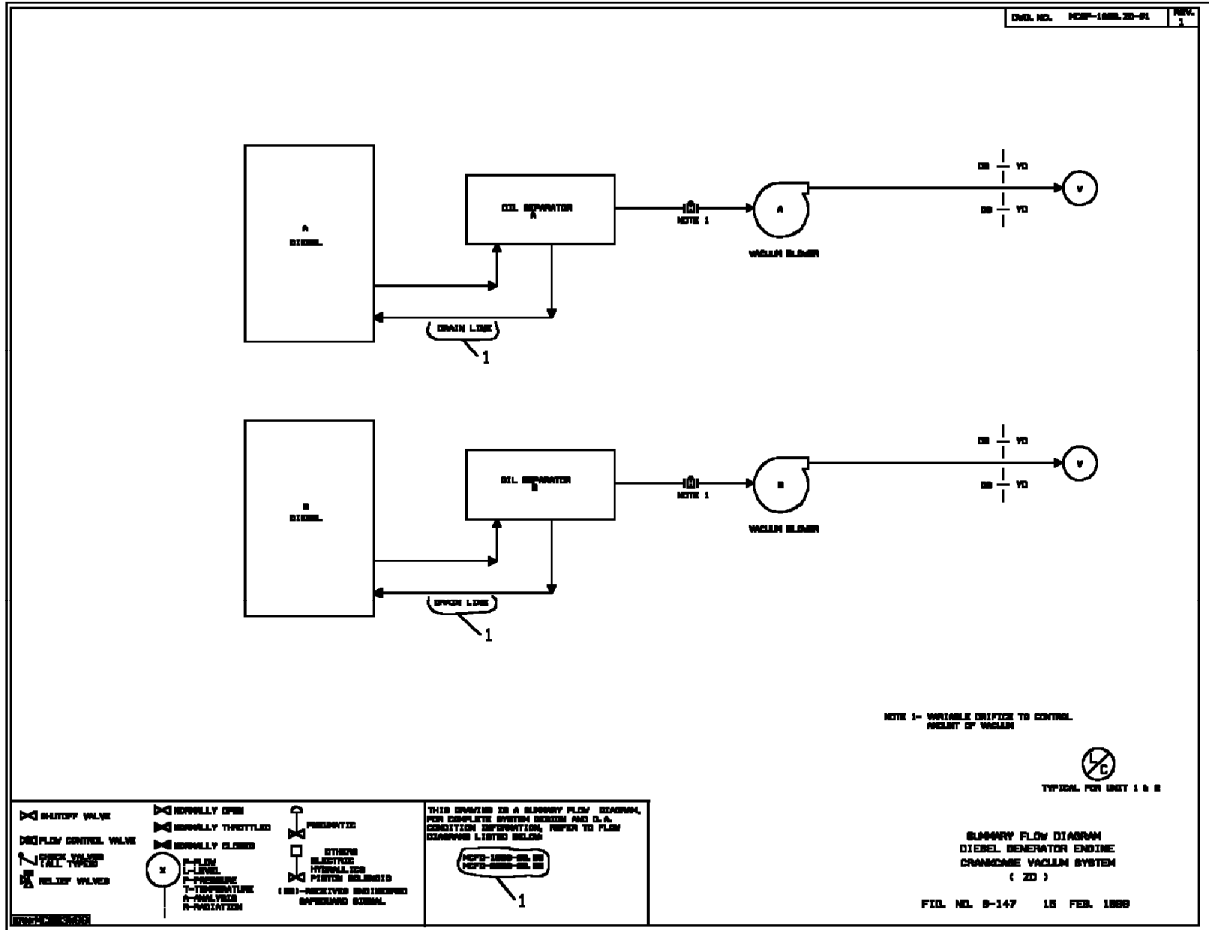


Figure 9-149. Flow Diagram of Diesel Generator Engine Air Intake & Exhaust System

