

December 2015

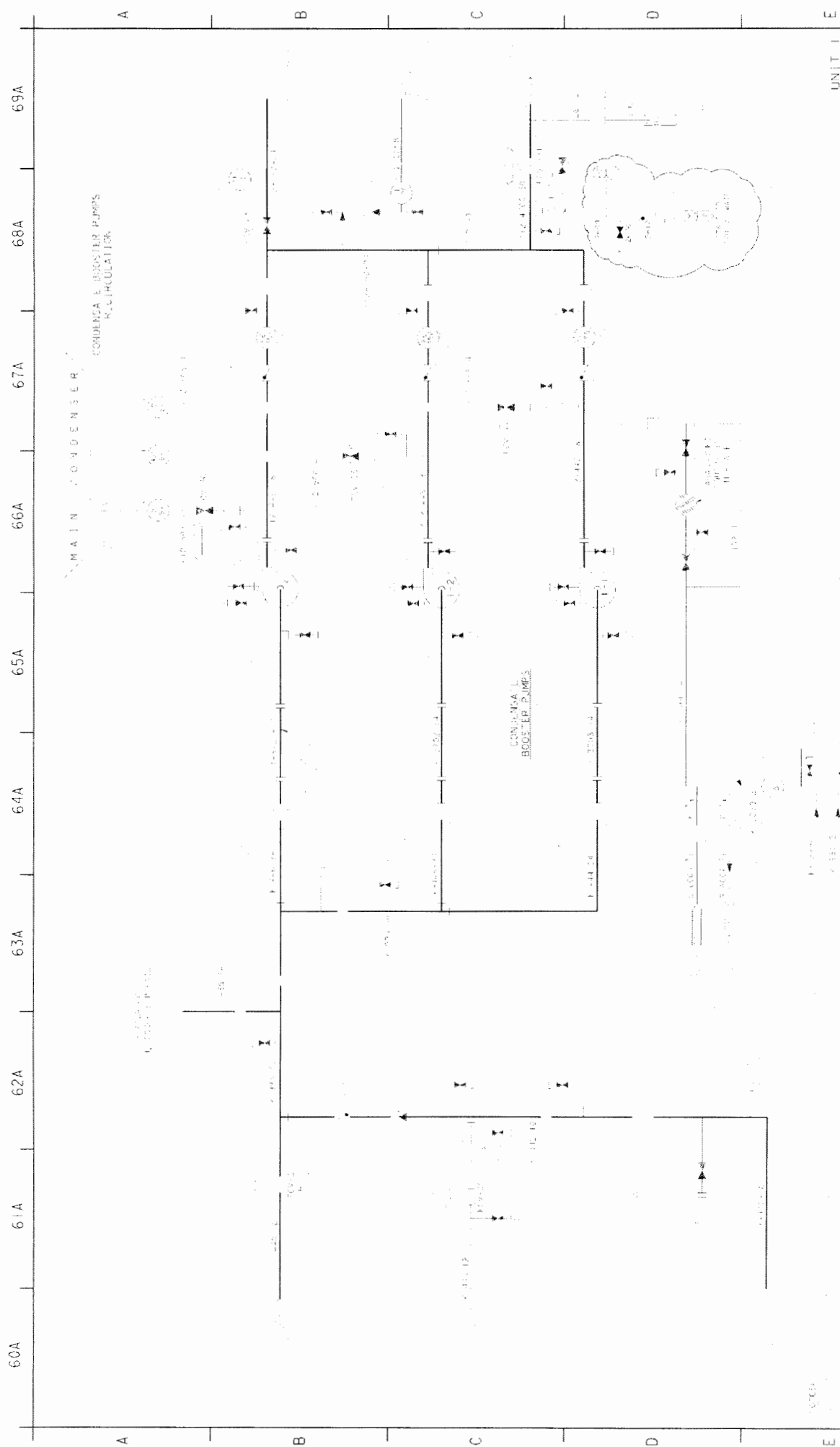
This version of the Diablo Canyon Power Plant Units 1 and 2 Final Safety Analysis Report Update (FSARU) is the licensee's version submitted to the NRC on May 6, 2015. This version has certain sensitive information identified by staff of the Nuclear Regulatory Commission (NRC) per 10 CFR 2.390(d)(1) that 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.

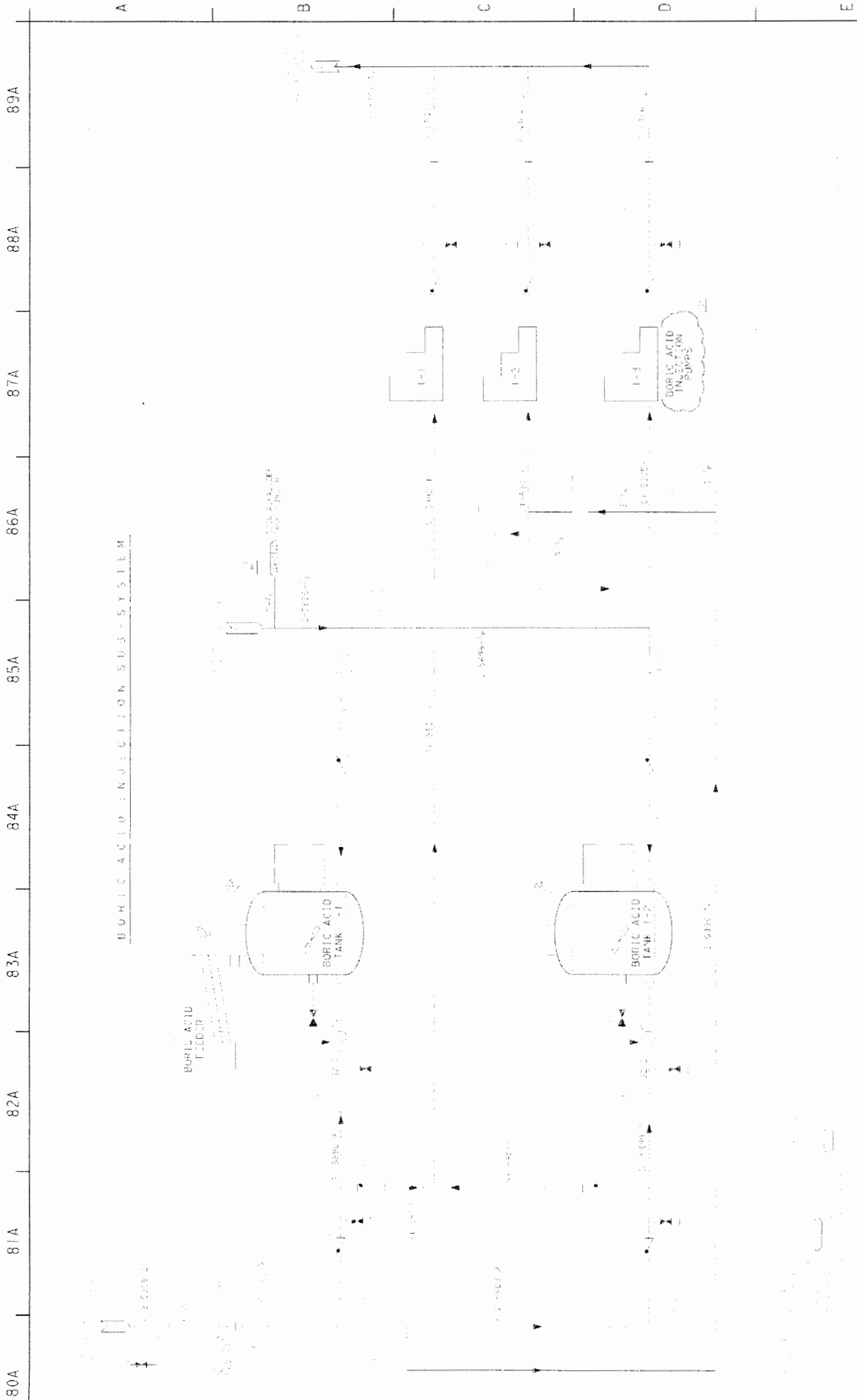
The following information was considered sensitive by NRC staff:

Figure	Drawing
3.2-23	102023-17C

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

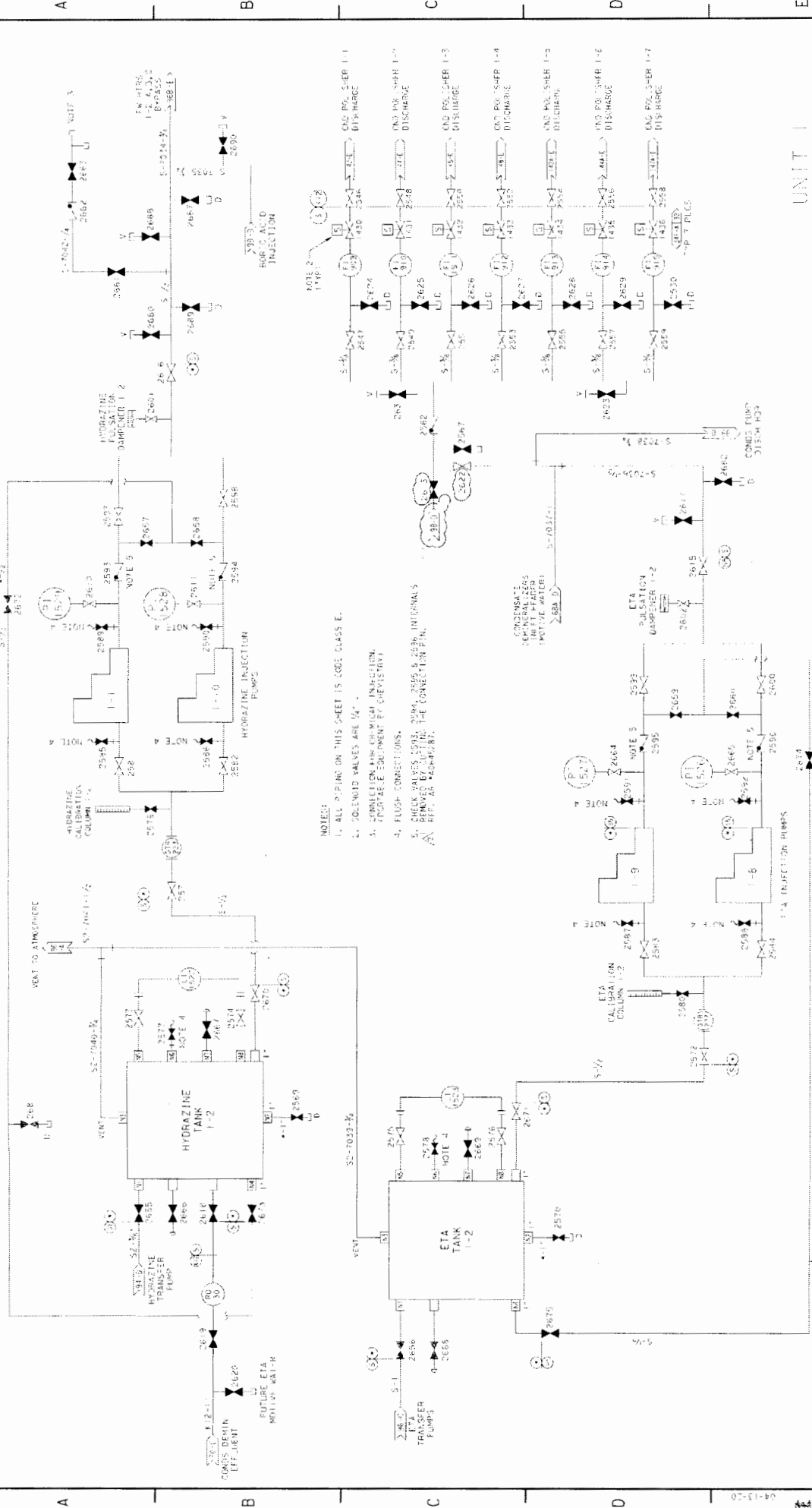


UNIT 1	
P & E CO.	102002 12



BORIC ACID INJECTION SUB-SYSTEM	
DATE	10/1/77
BY	J. J. J.
CHECKED BY	J. J. J.
APPROVED BY	J. J. J.

90B 91B 92B 93B 94B 95B 96B 97B 98B 99B



- NOTES:
1. ALL PIPING ON THIS SHEET IS CODE CLASS E.
 2. SOLID VALVES ARE 1/2".
 3. CONNECTION FOR CHEMICAL INJECTION. (FUTURE EQUIPMENT BY CHEMIST)
 4. FLUSH CONNECTIONS.
 5. CHECK VALVES 2593, 2594, 2595 & 2596 INTERNALS REMOVED BY JLT IN THE CONNECTION PIP.

MAIN FEEDWATER
HYDRAZINE - ETA SUPPLY

DRIVING	102002	SHEET	PAGE	REV
			9B	0 4

DESIGNED BY	DATE	REVISION	BY	DATE

UNIT 1

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

A

B

C

D

E

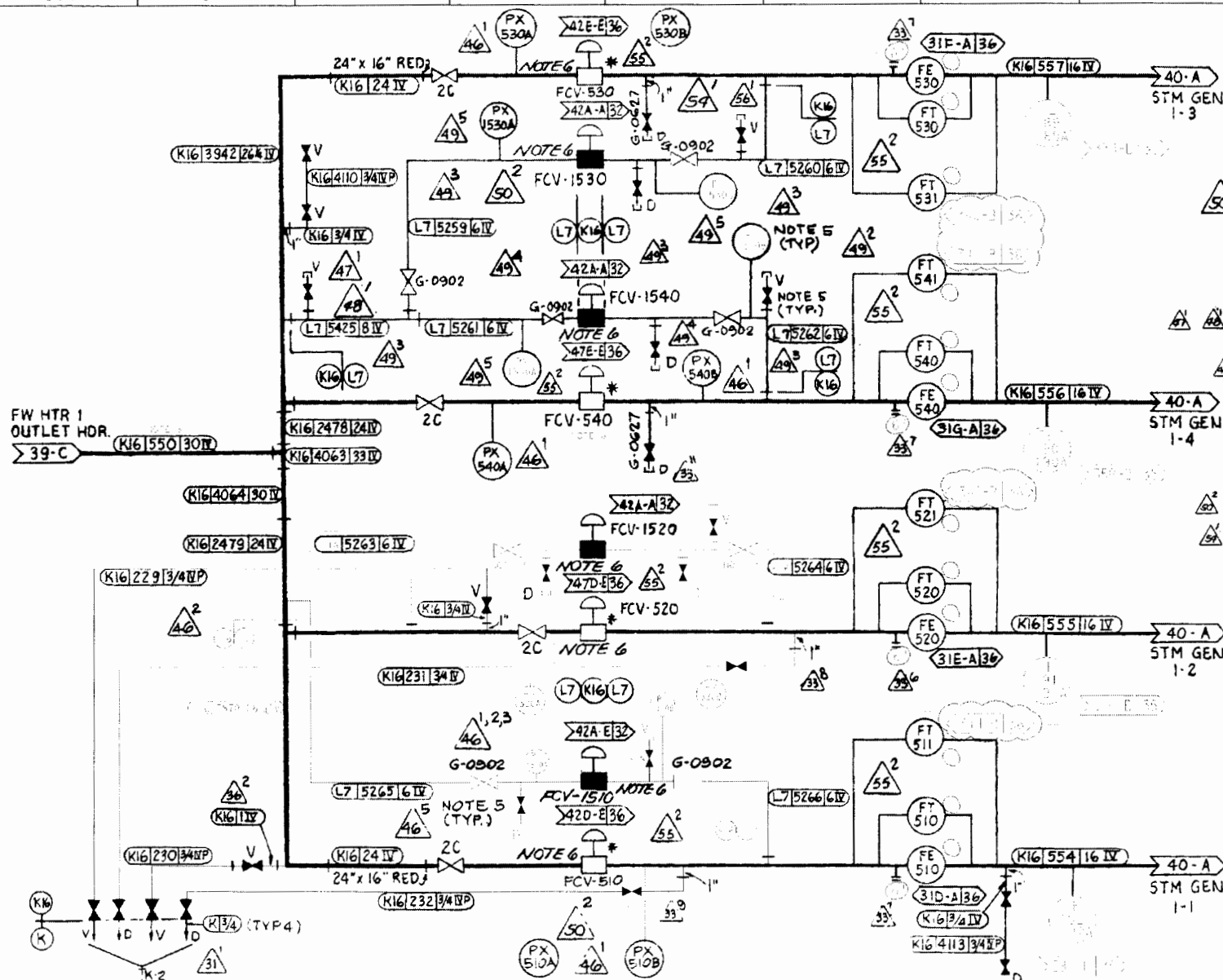
A

B

C

D

E



NOTES:

1. ALL PIPING ON THIS SHEET SHALL BE PG&E CODE CLASS E. ALL MAIN FEEDWATER & FEEDWATER BY-PASS PIPING FROM THE CODE CLASS BREAK CHECK VALVE TO THE G-LINE ANCHOR AT THE TURBINE BUILDING WALL IS SEISMICALLY ANALYZED.

2. ALL VALVES ON THIS SHEET WITH ITEM NO. SHALL BE SPEC 8762.

3. K16 VALVE DATE VALVES PURCHASED UNDER SPEC 8762.

4. DELETED

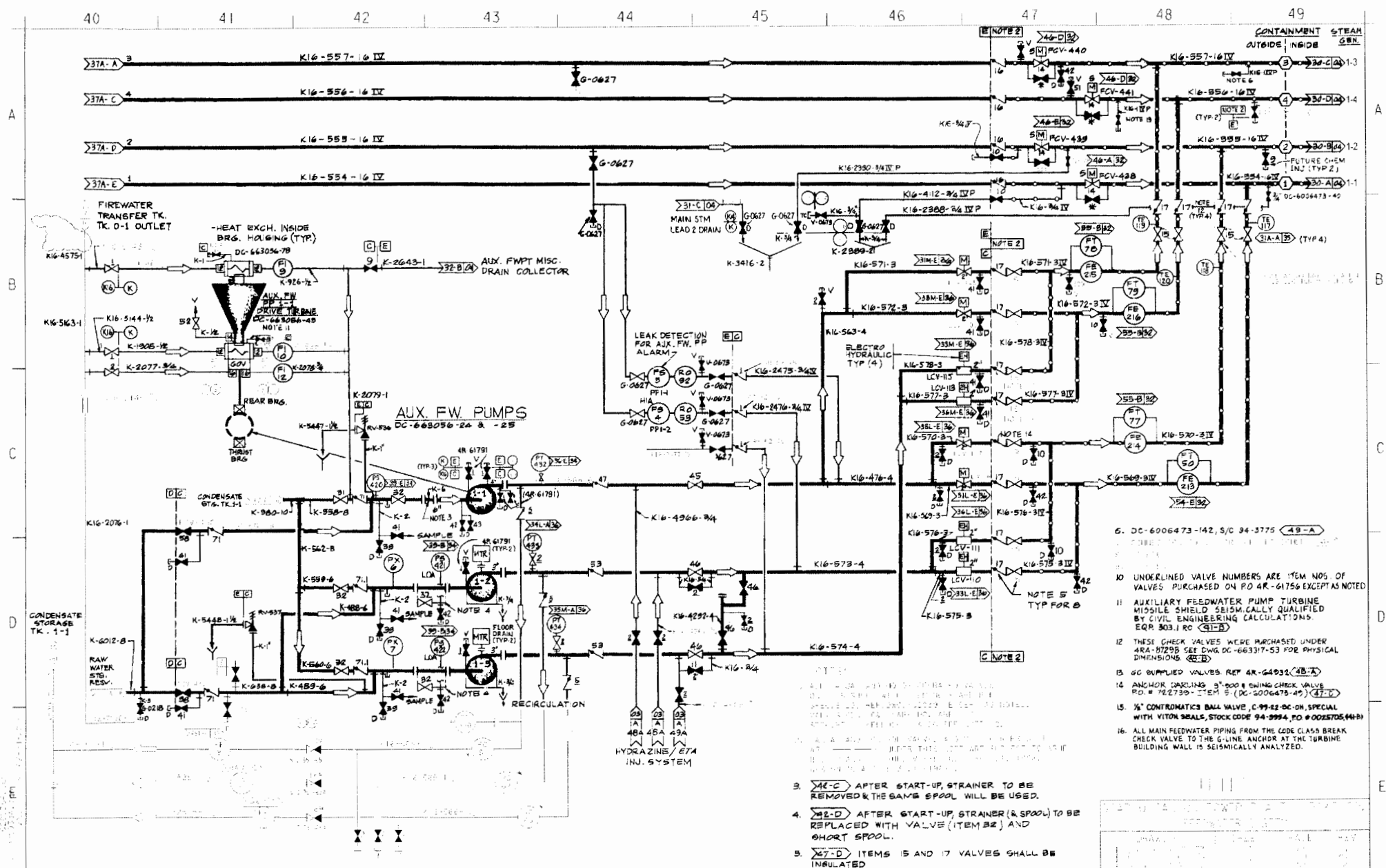
5. VENT, DRAIN AND TEST CONNECTION PIPING ON BYPASS LINES IS K16 SPEC UNLESS OTHERWISE NOTED

6. VALVES FCV-510, 520, 530, 540, 1510, 1520, 1530 & 1540 ARE "Q" SAFETY RELATED DESIGN CLASS I.

7. DELETED

8. SEE DATA BOOKING 300-44 FOR PIPE SCHEDULES, WEIGHTS, ETC.

DATE	11/10/01	BY	W. J. HARRIS
REVISION	1	DESCRIPTION	REVISION 1
DATE	11/10/01	BY	W. J. HARRIS
REVISION	1	DESCRIPTION	REVISION 1



60 61 62 63 64 65 66 67 68 69

E

D

C

B

A

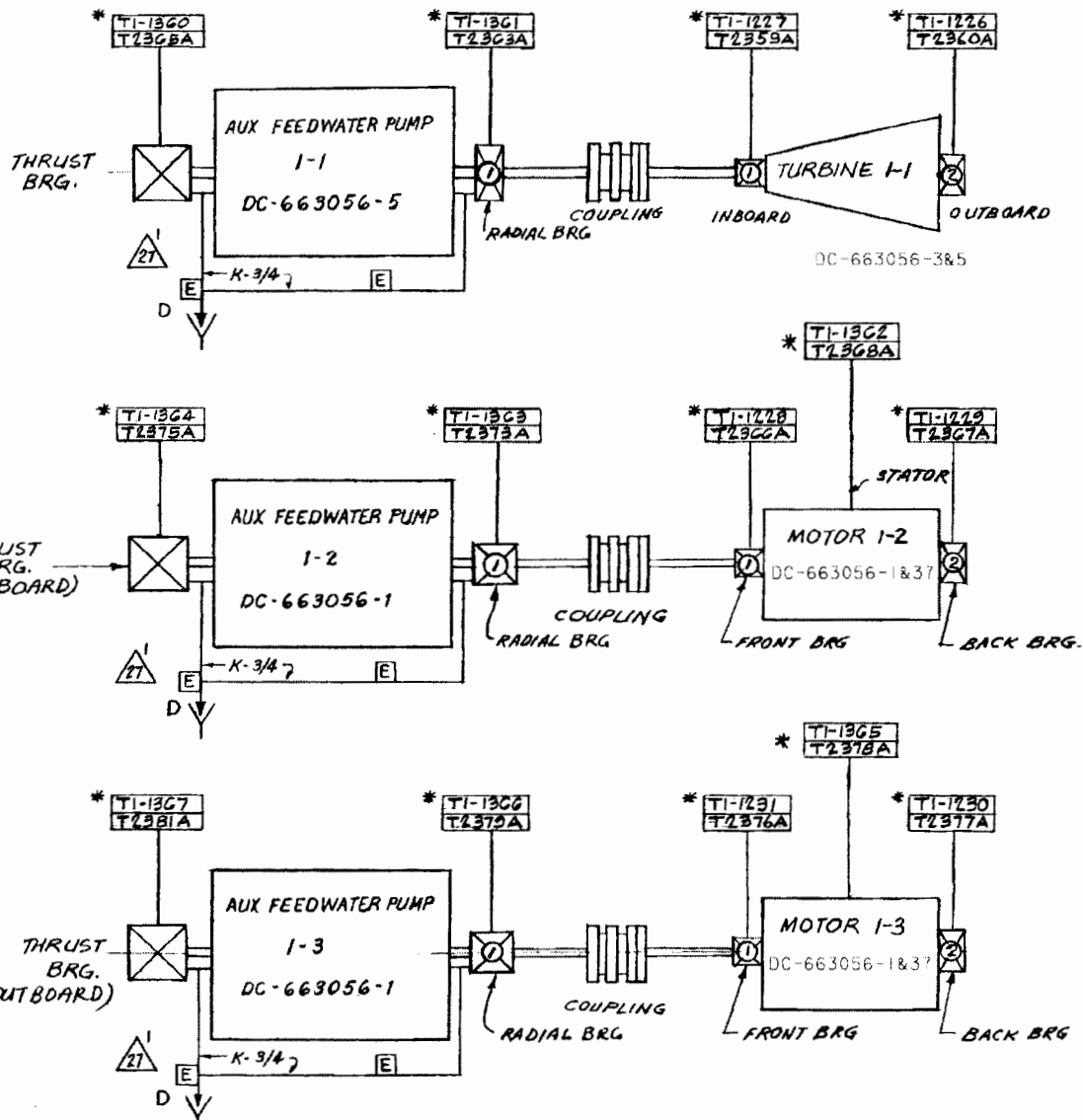
E

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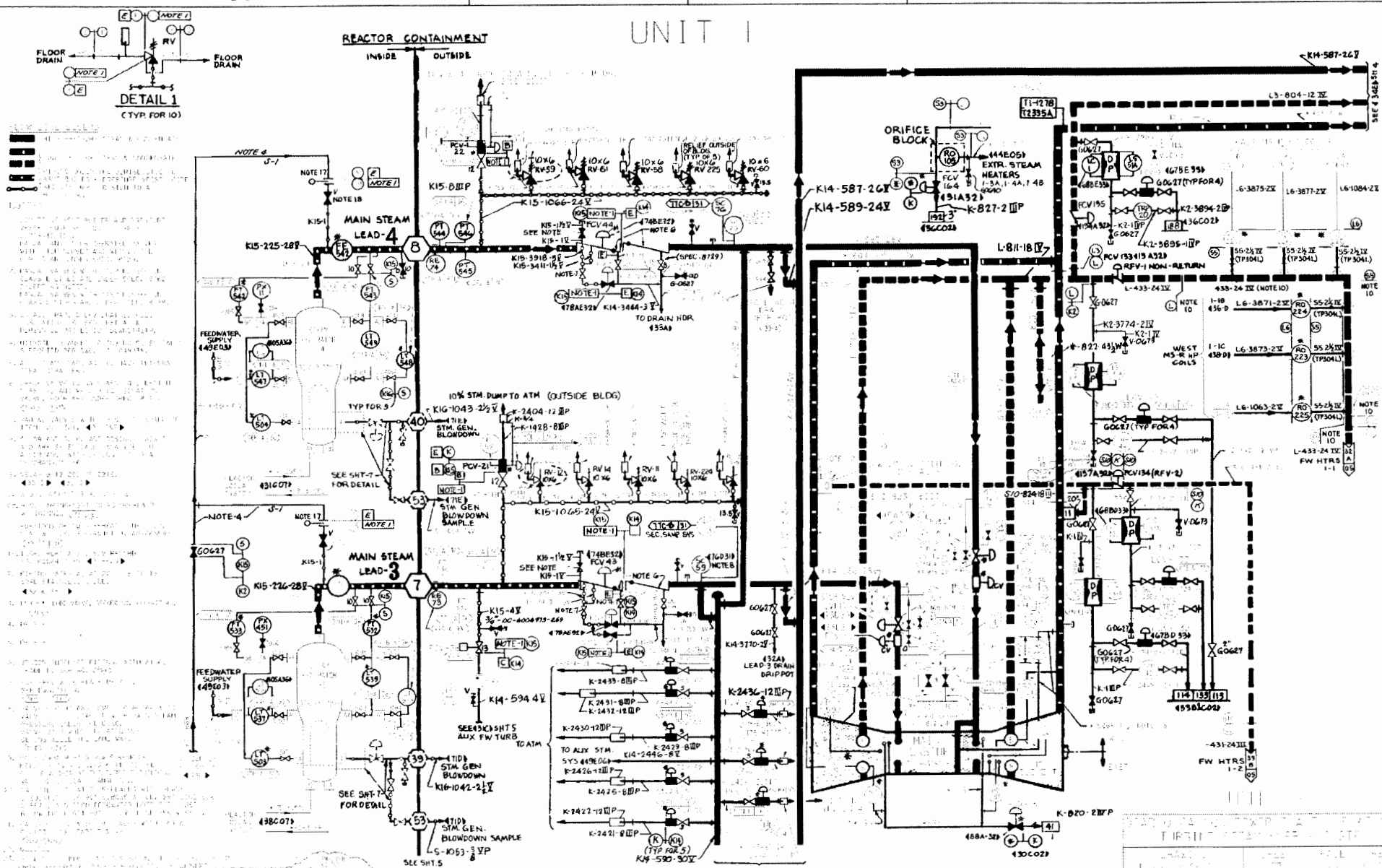
REF. DWGS : DC-663056 - 1 to 30

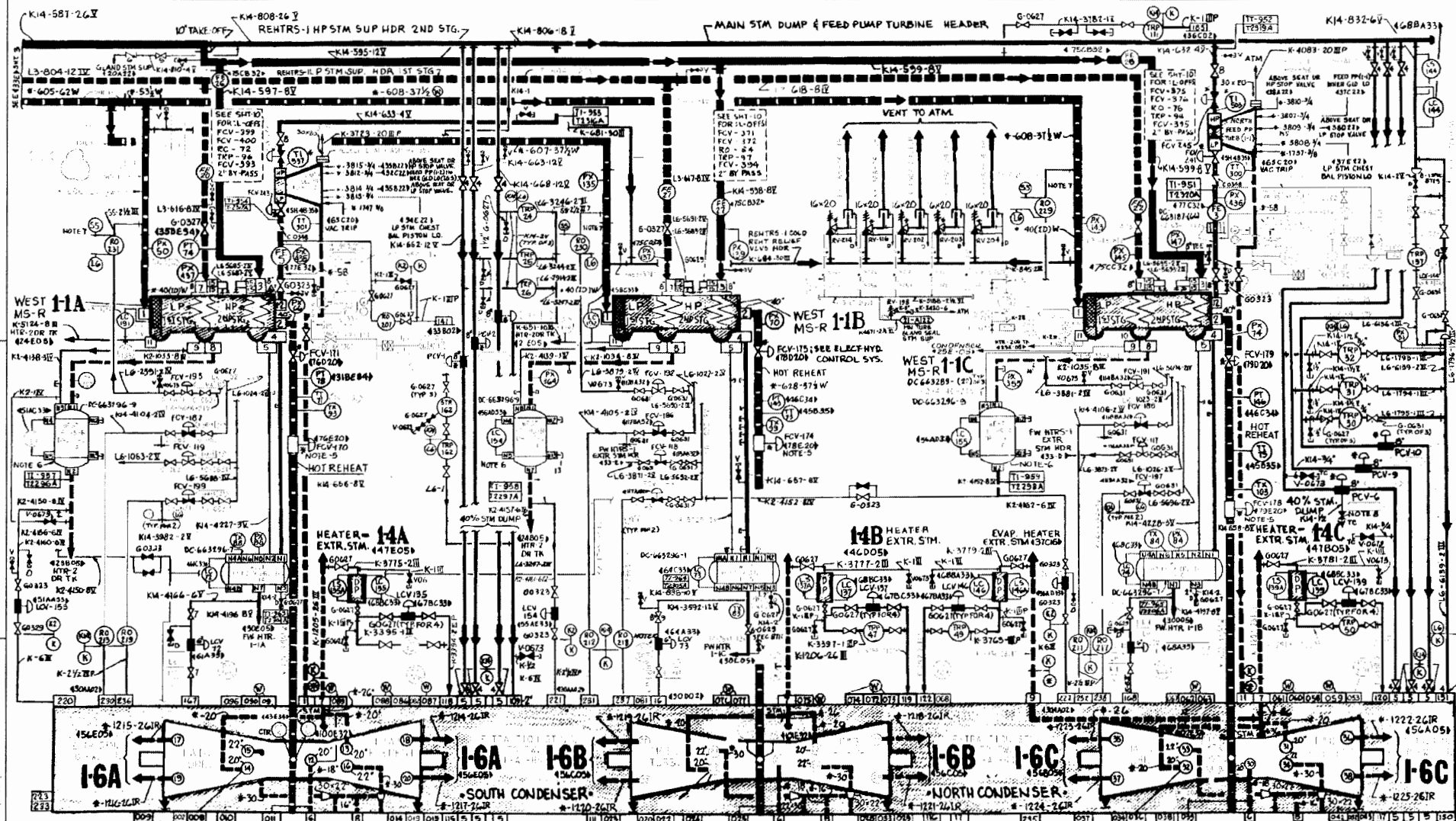
UNIT - 1

P G & E CO.

102003

28





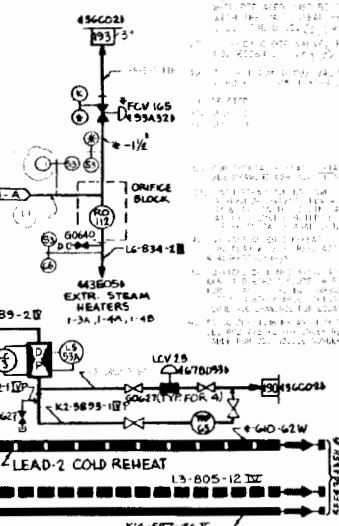
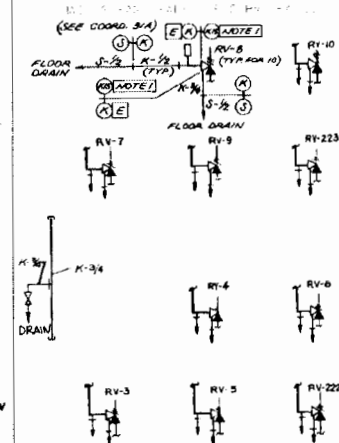
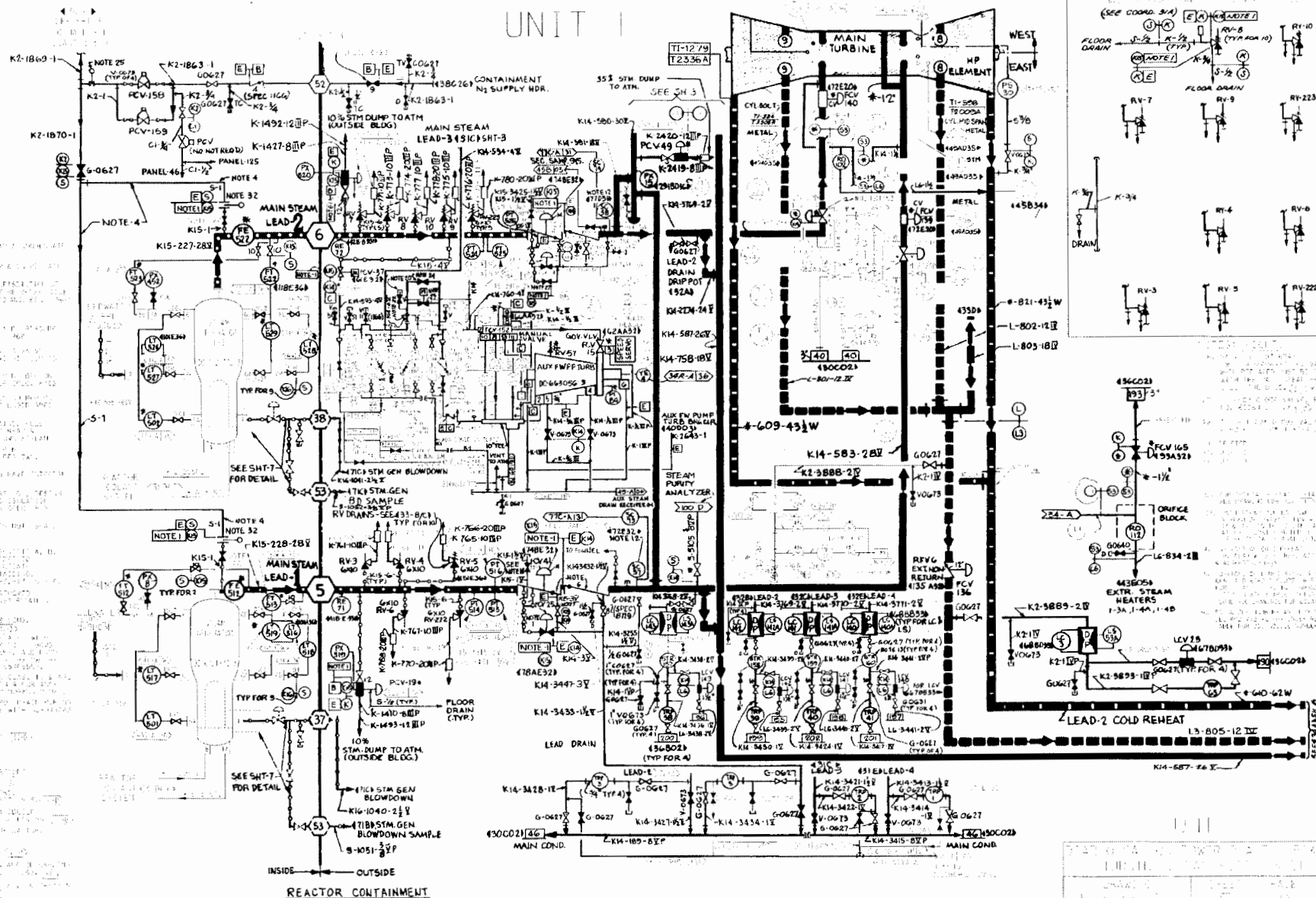
NOTES: 1. PG&E CODE CLASS [] MANUAL VALVES WITH ITEM NOS. ARE UNDER SPEC. 87.62.
 2. ON ALL TRAPS AND LCV DRAINS FULL INSULATION IS USED UPSTREAM AND PERSONNEL PROTECTION DOWNSTREAM.
 3. (W) DENOTES WESTINGHOUSE NOZZLE.

4. ALL PIPING THIS SHEET: PG&E CODE CLASS []
 5. REFER TO E-H SYS. DWG. 107020 SHTS. 3 & 3A.
 6. ADDITIONAL INST. & NOZZLES FOR LPM-S-R DRAIN TANK:
 LP MS-R L1 L6 (L10A) L8 (L1A)
 DRAIN TX. NOZ. INST. NOZ. INST. NOZ. INST.
 I-1A 253 253A 253B
 I-1B 254 254A 254B
 I-1C 255 255A 255B

10. CONDENSER NITROGEN INJECTION FOR DISSOLVED OXYGEN CONTROL IS THROUGH PC-367 FOR NITROGEN SUPPLY. SEE SYSTEM DS, (102005, COORD. 78-D), (28-C)

FLOW LINE LEGEND
 HIGH PRESSURE STEAM
 AND CONDENSATE
 LOW PRESSURE STEAM
 AND CONDENSATE

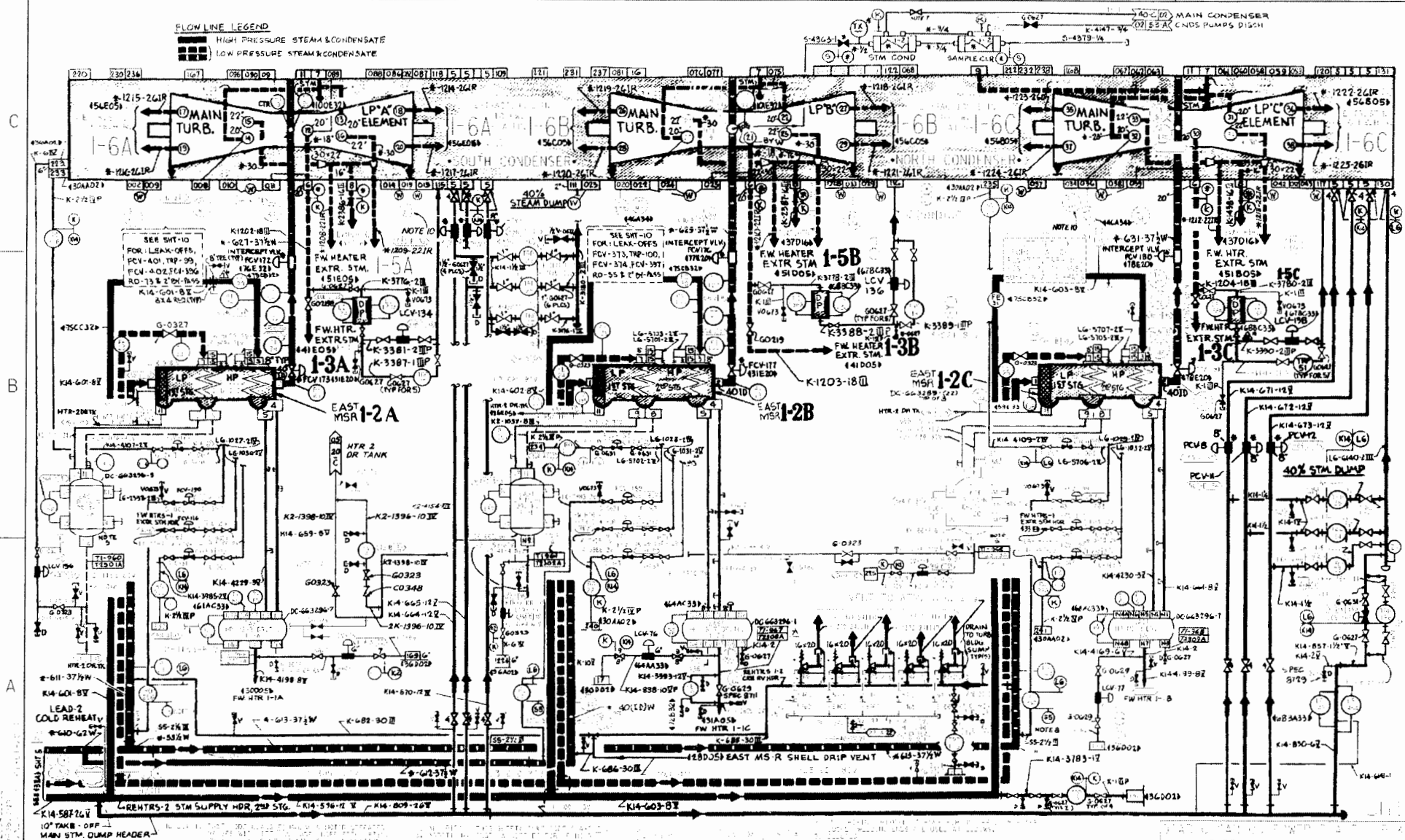
UNIT 1



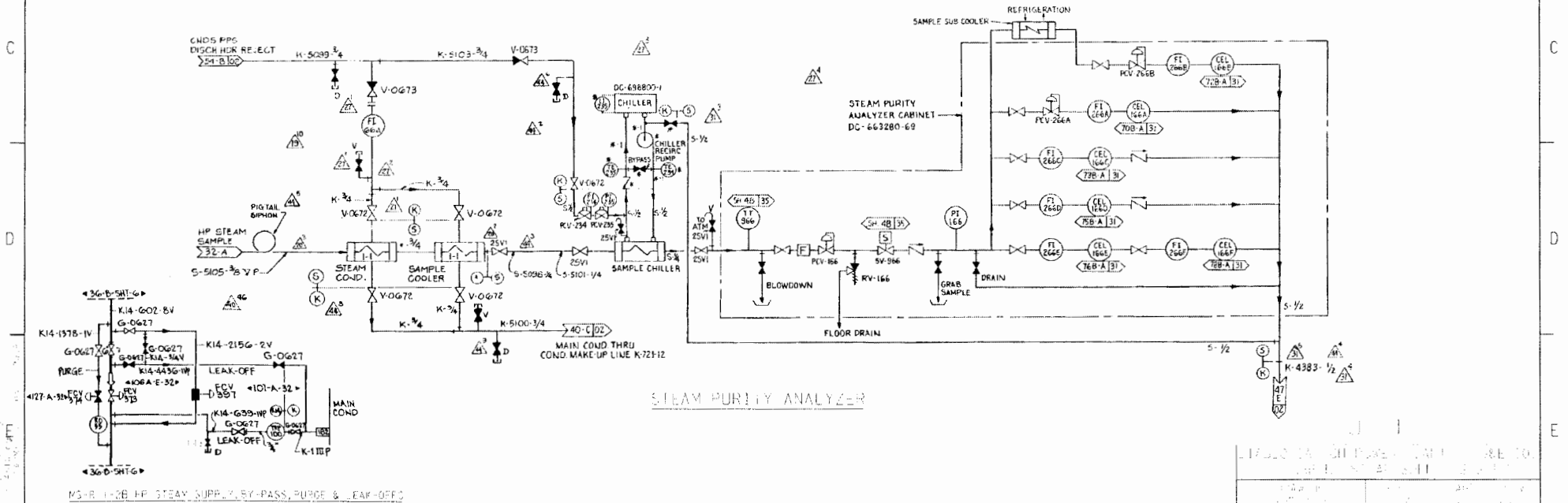
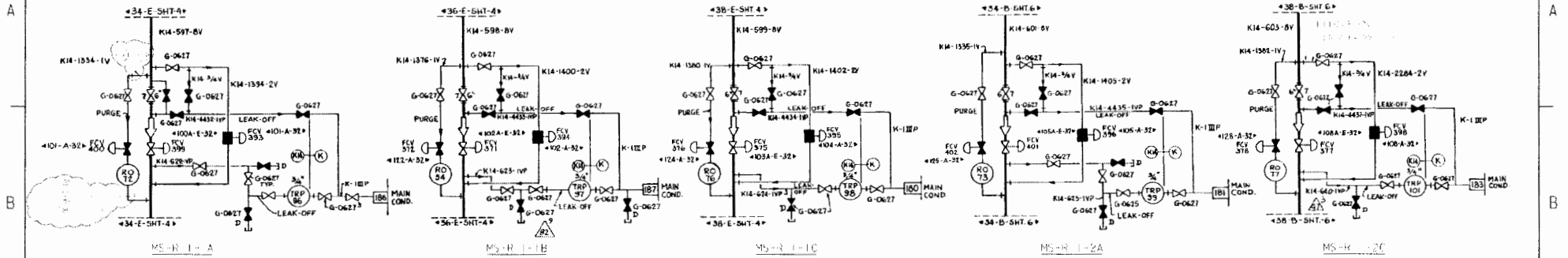
ITEM	DESCRIPTION	QUANTITY	UNIT
1	VALVE	1	EA
2	PUMP	1	EA
3	PIPE	1	EA
4	FLANGE	1	EA
5	WELD	1	EA
6	DRIFT PIN	1	EA
7	DRIFT PIN	1	EA
8	DRIFT PIN	1	EA
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99	DRIFT PIN	1	EA
100	DRIFT PIN	1	EA

FLOW LINE LEGEND

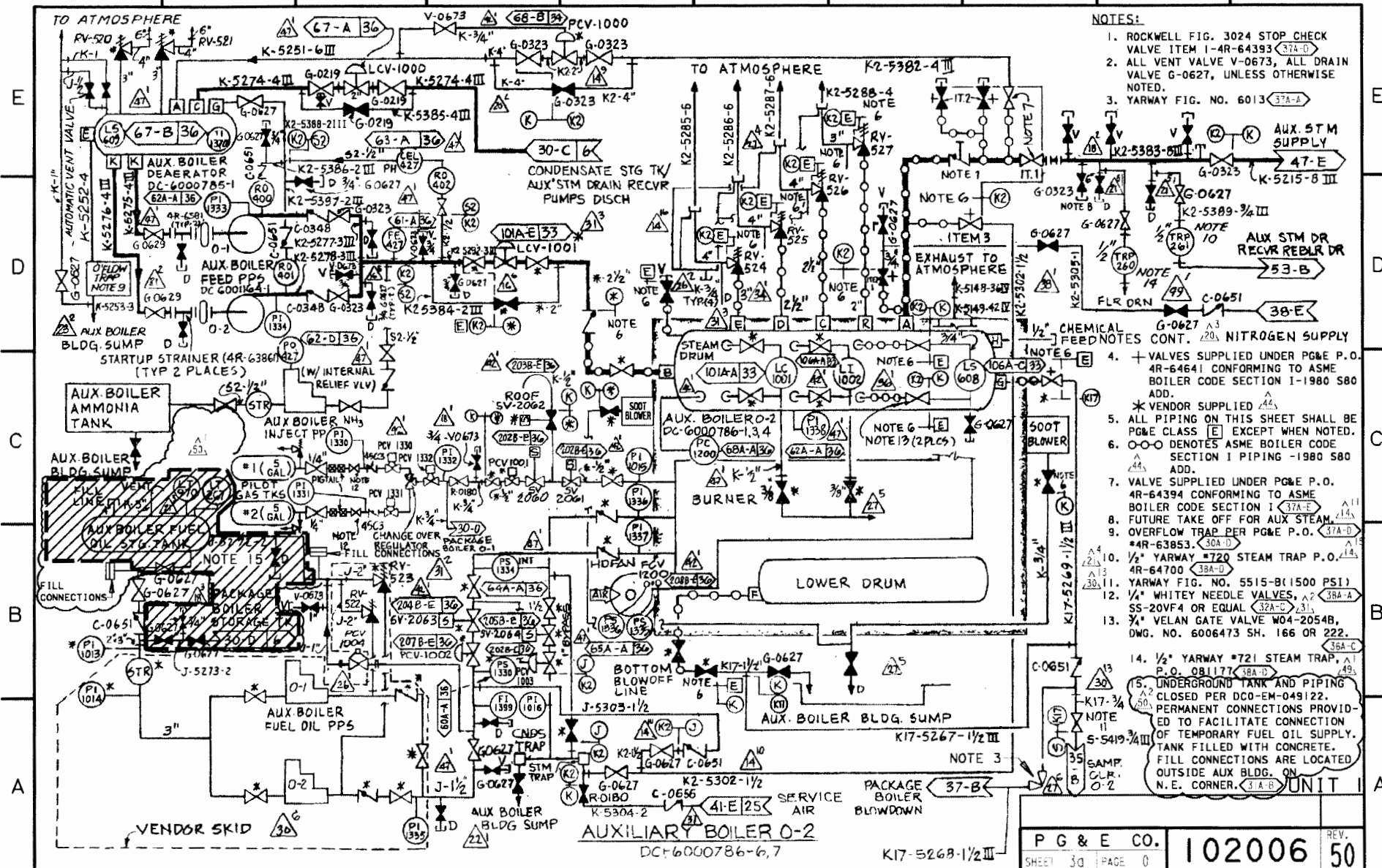
HIGH PRESSURE STEAM & CONDENSATE
LOW PRESSURE STEAM & CONDENSATE



100 101 102 103 104 105 106 107 108 109



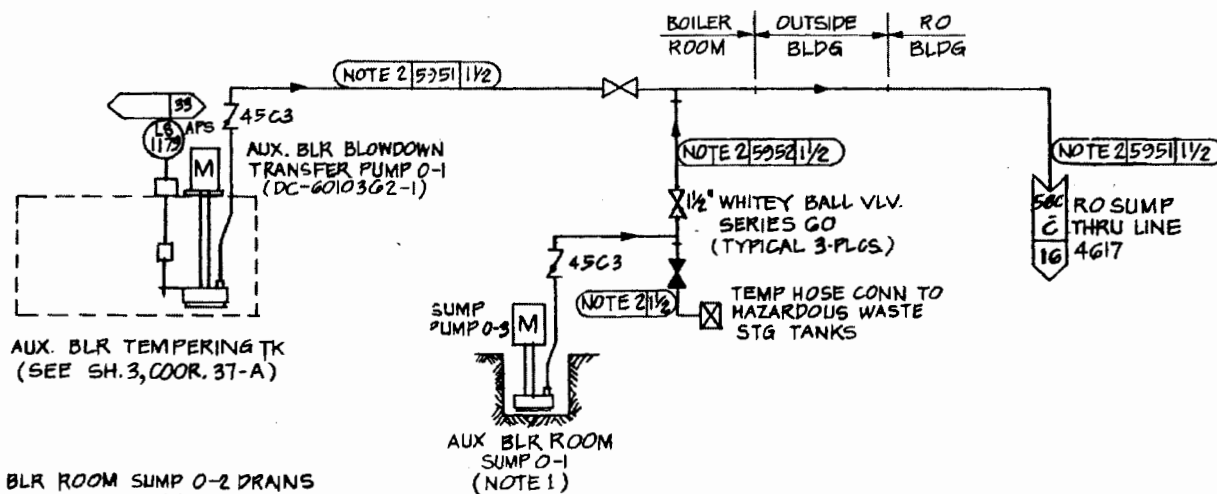
100	101	102	103	104	105	106	107	108	109
100	101	102	103	104	105	106	107	108	109
100	101	102	103	104	105	106	107	108	109
100	101	102	103	104	105	106	107	108	109



1/6/99	CMGS	RXG2	FCL2	FRANCIS C. LING	MECHANICAL	M 16038	12/31/1999	Revised per DCO-EM-049122-00
DATE	DWN	RE	IV	PROFESSIONAL ENGINEER	PE DISC.	PE#	PE EXP.	

30B | 31B | 32B | 33B | 34B | 35B | 36B | 37B | 38B | 39B

AUXILIARY BOILER BLOWDOWN & ROOM SUMP DRAINS TO REVERSE OSMOSIS (RO) SUMP



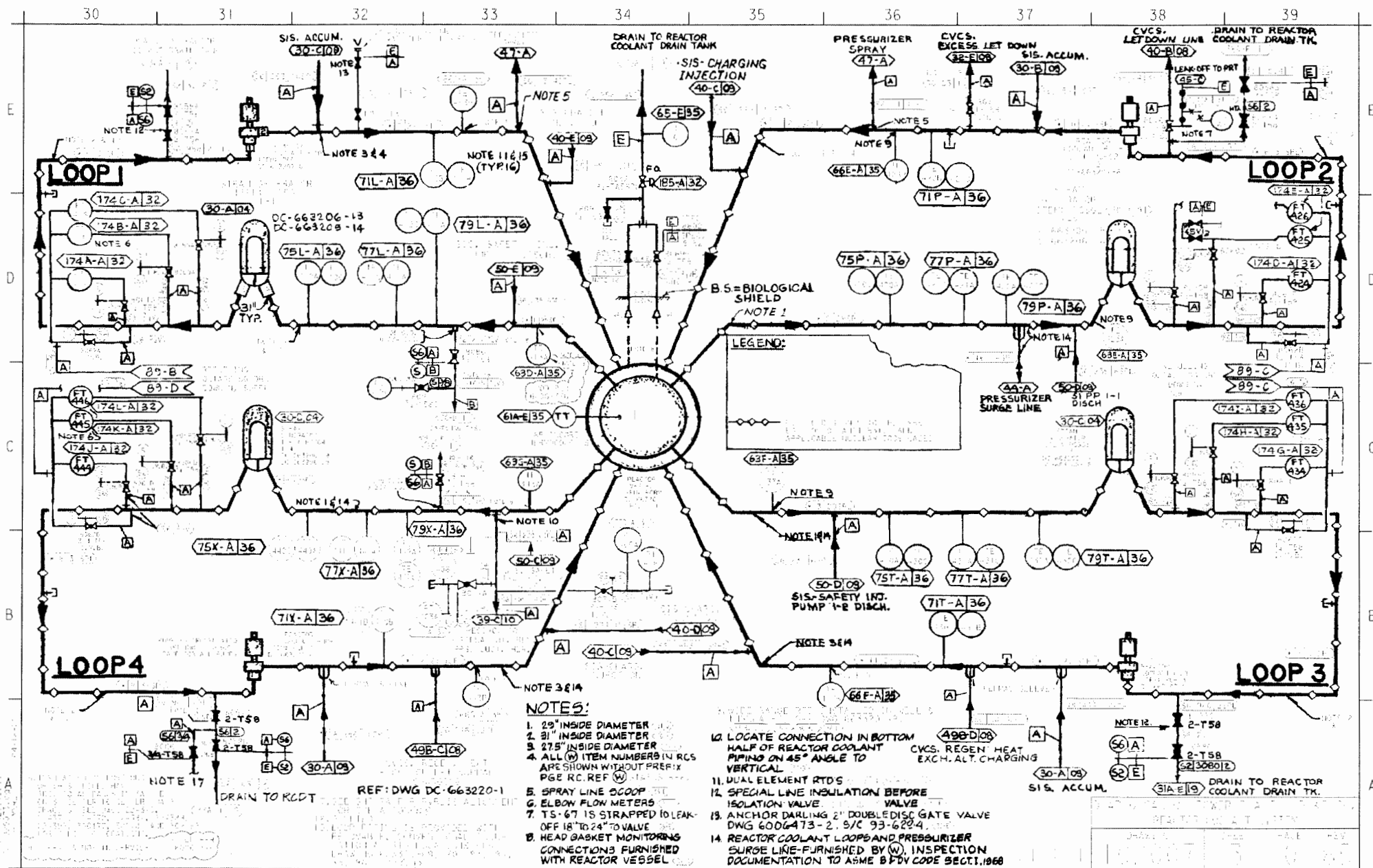
NOTES:

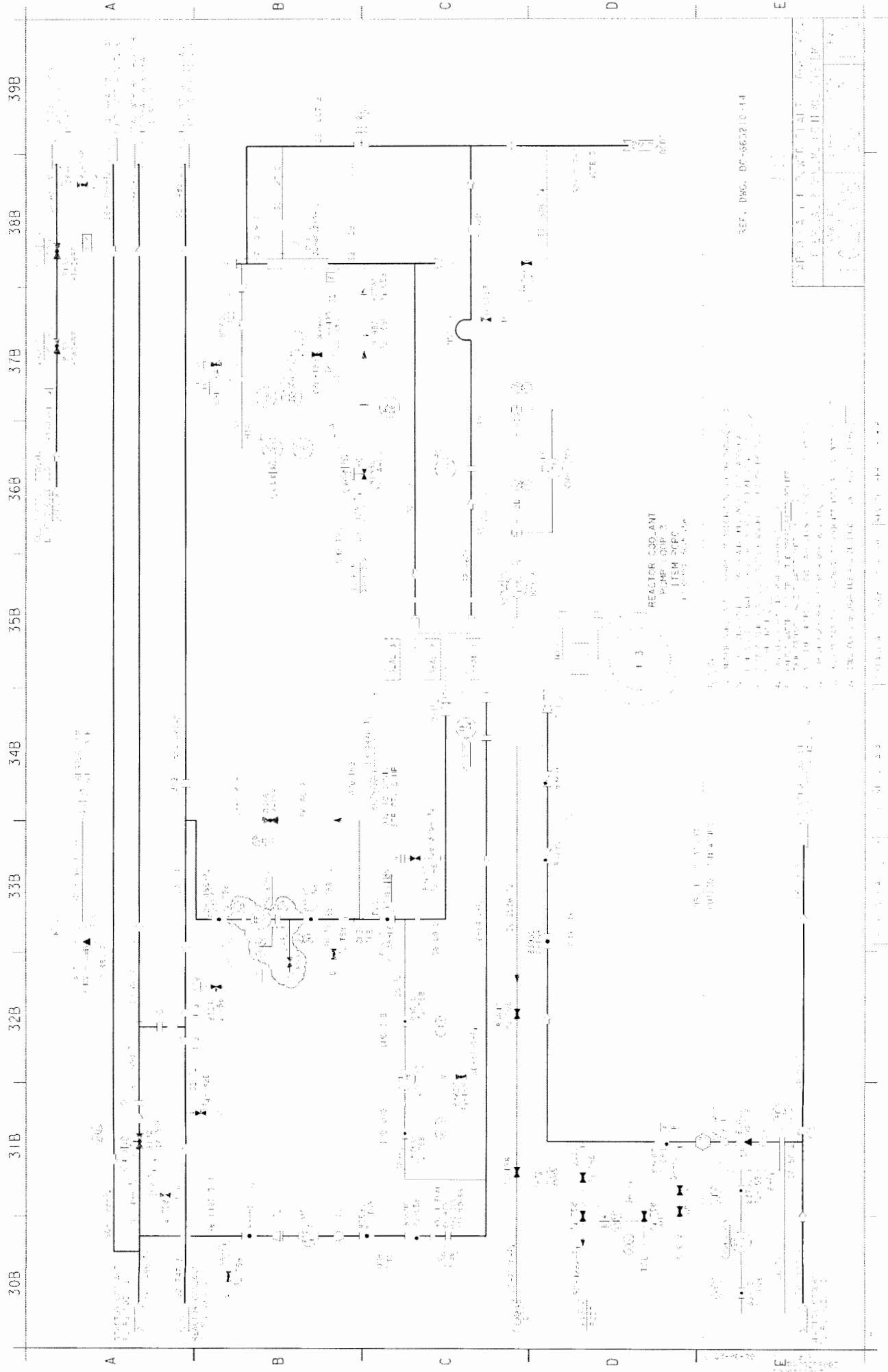
1. AUX BLR ROOM SUMP 0-2 DRAINS BY GRAVITY TO SUMP 0-1.
2. NON-SPEC STAINLESS STEEL TUBING: 0.065" WALL THICKNESS.
3. ALL PIPING ON THIS SHEET IS PG&E CLASS E UNLESS NOTED OTHERWISE.

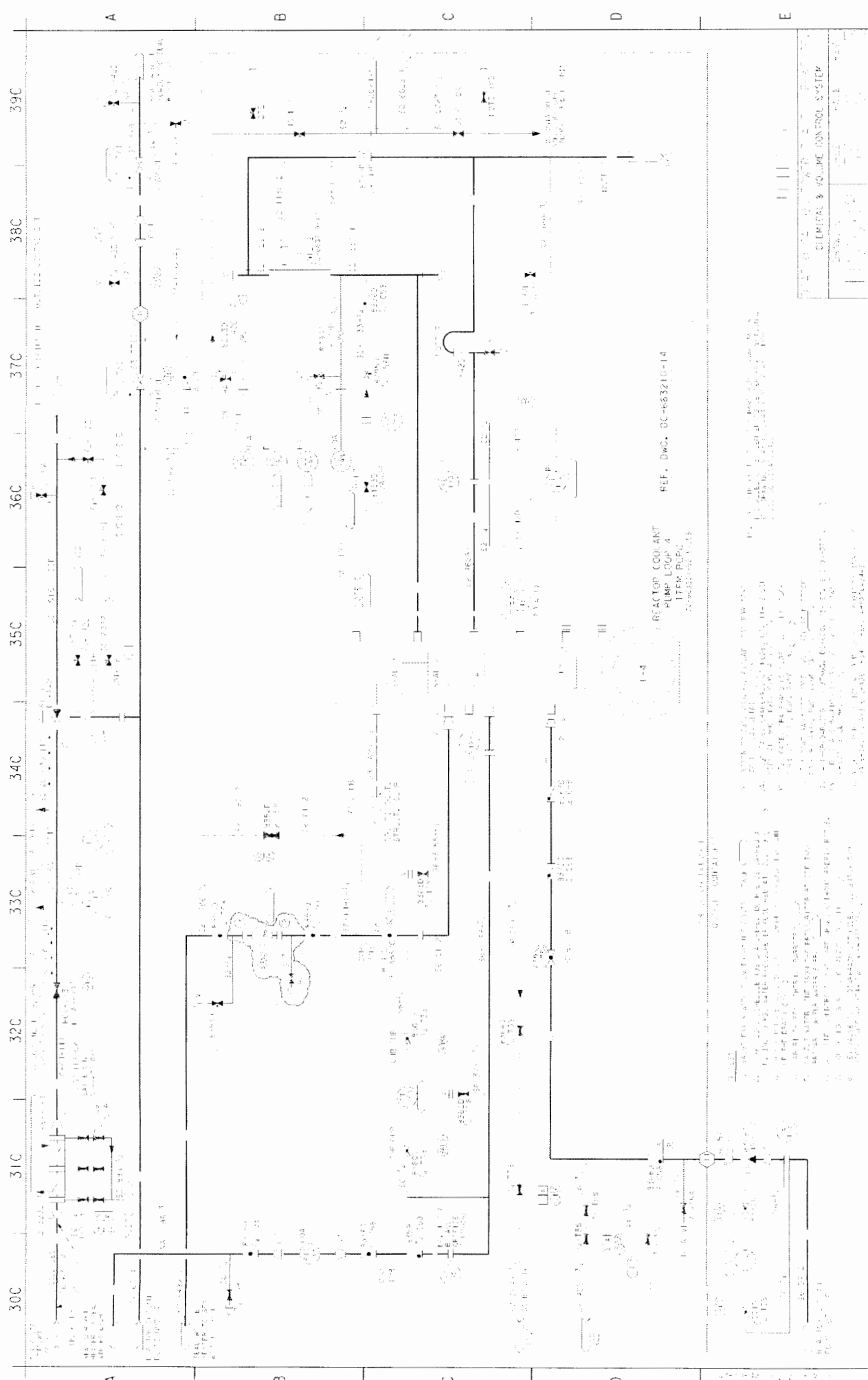
PG&E CO.	102006	REV. 33
SHEET 38 OF SHEETS	MICROFILM	

SCAN 38 IC

RW: UNCHANGED REV. 33







1. The Reactor Coolant Pump Loop (A) is a closed loop system that circulates coolant from the Reactor Core to the Steam Generator and back. The loop is controlled by the Reactor Coolant Pump (RCP) and the Reactor Coolant Pump Control (RCPC) system.

2. The RCP is a centrifugal pump that draws coolant from the Reactor Core and pumps it to the Steam Generator. The RCPC system controls the RCP speed and direction of rotation.

3. The Steam Generator is a heat exchanger that transfers heat from the Reactor Core to the Secondary Loop. The Secondary Loop circulates water from the Steam Generator to the Condenser and back.

4. The Condenser is a heat exchanger that transfers heat from the Secondary Loop to the Cooling Water. The Cooling Water is drawn from the Cooling Water Tank and pumped to the Condenser.

5. The Cooling Water Tank is a storage tank for the Cooling Water. The Cooling Water is pumped from the tank to the Condenser by the Cooling Water Pump (CWP).

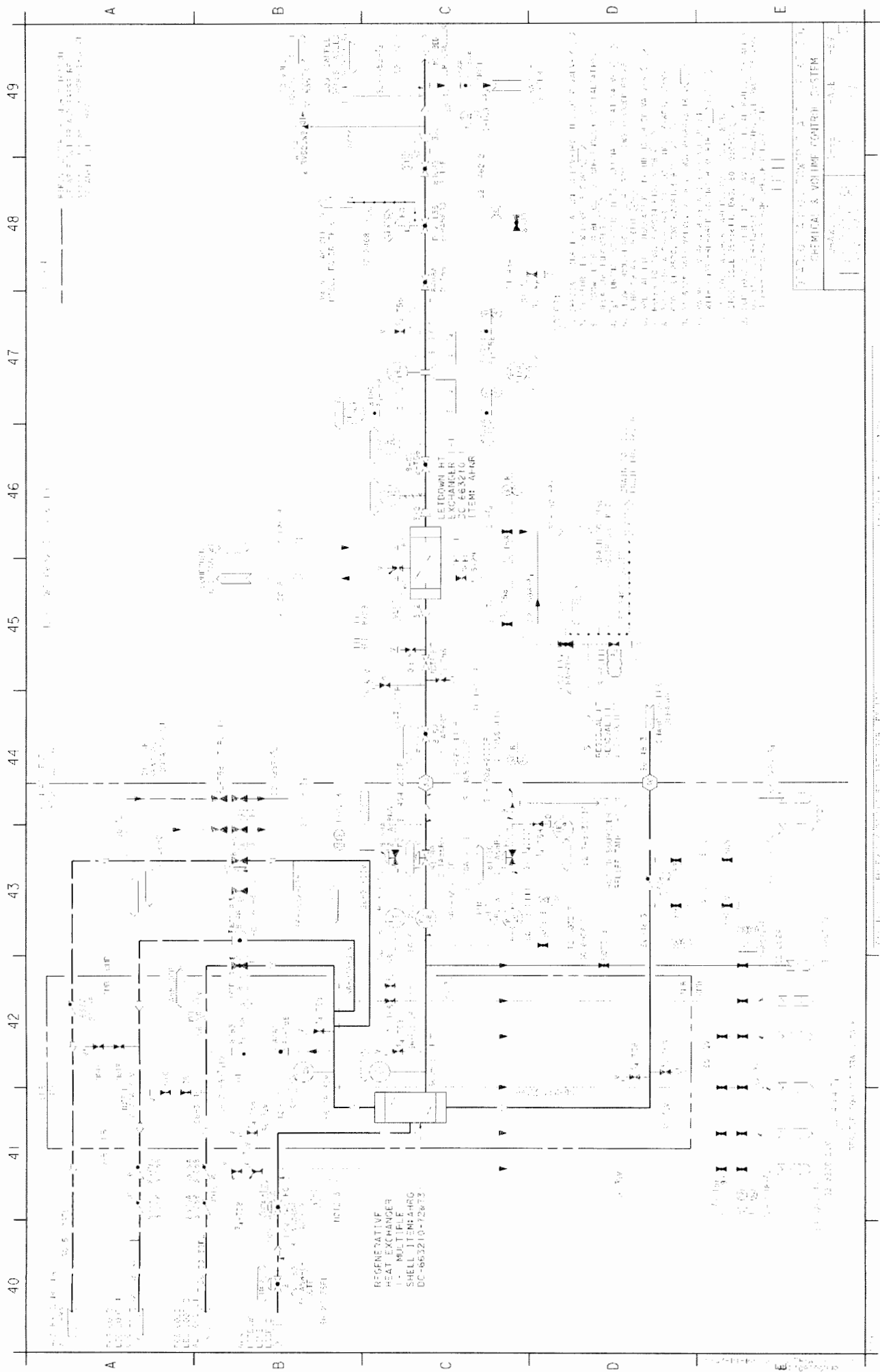
6. The CWP is a centrifugal pump that draws Cooling Water from the Cooling Water Tank and pumps it to the Condenser. The CWP is controlled by the Cooling Water Pump Control (CWPC) system.

7. The CWPC system controls the CWP speed and direction of rotation. The CWPC system is controlled by the Reactor Coolant Pump Control (RCPC) system.

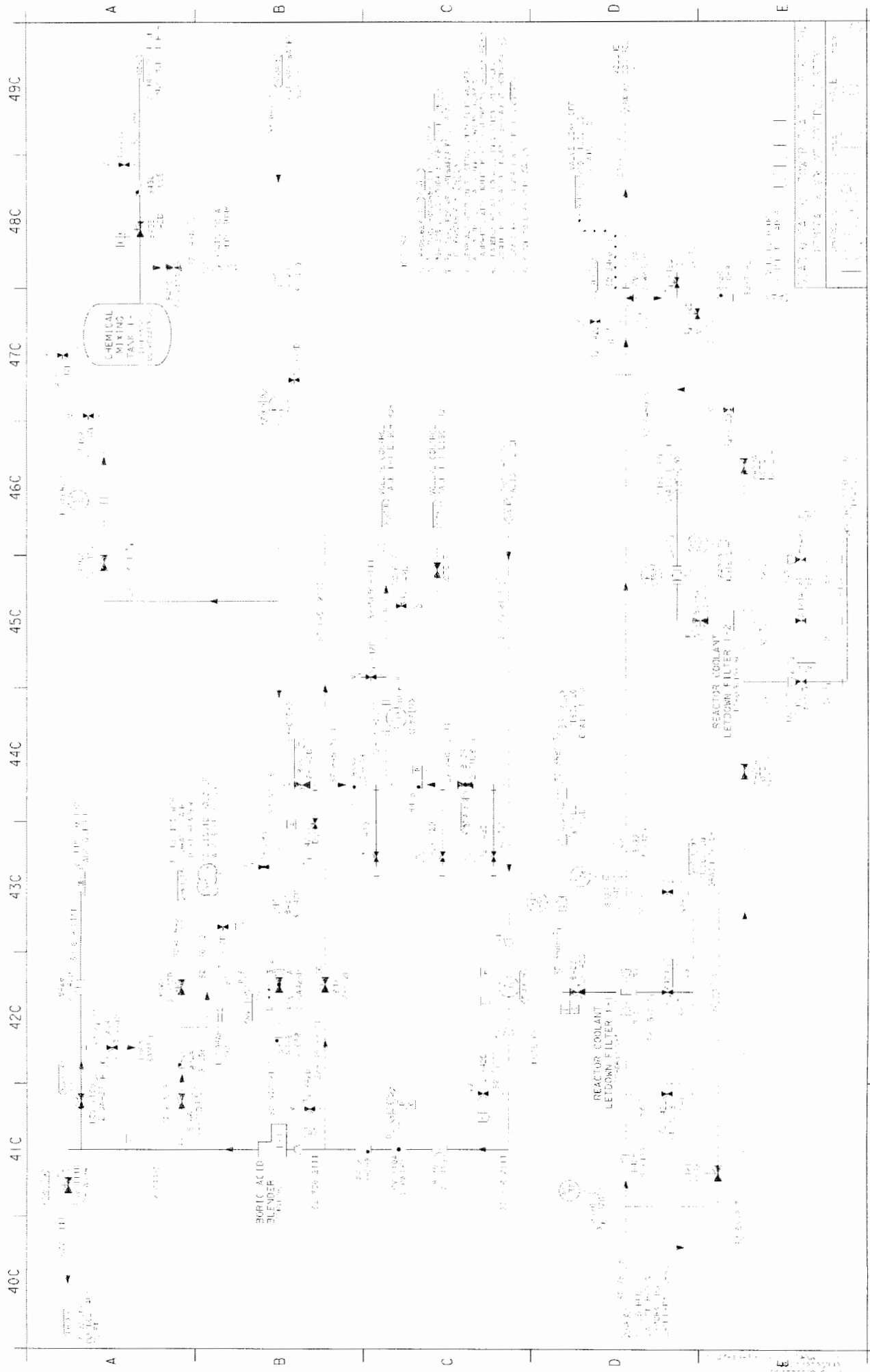
8. The RCPC system is a control system that controls the RCP speed and direction of rotation. The RCPC system is controlled by the Reactor Coolant Pump Control (RCPC) system.

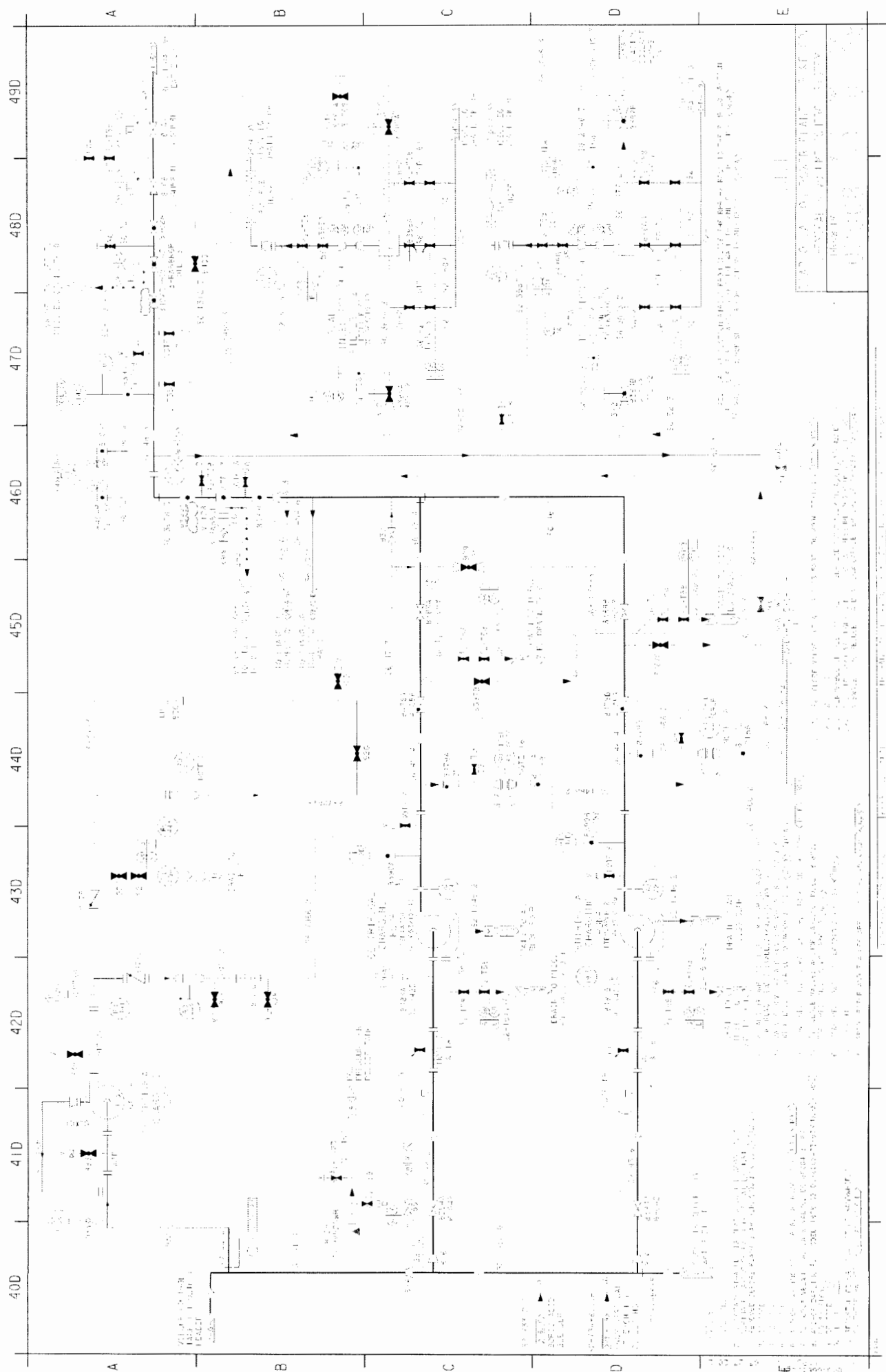
9. The RCPC system is a control system that controls the RCP speed and direction of rotation. The RCPC system is controlled by the Reactor Coolant Pump Control (RCPC) system.

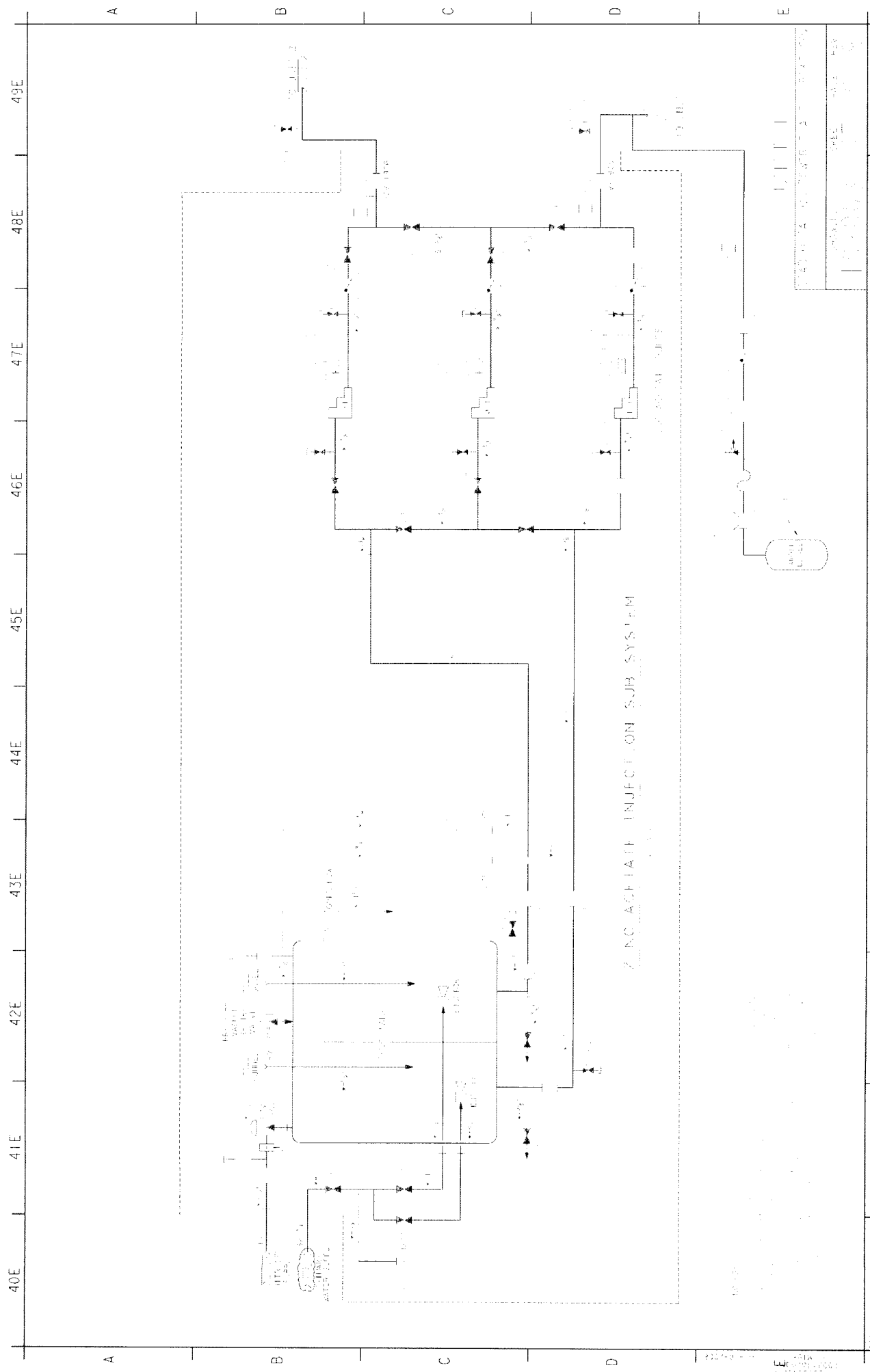
10. The RCPC system is a control system that controls the RCP speed and direction of rotation. The RCPC system is controlled by the Reactor Coolant Pump Control (RCPC) system.



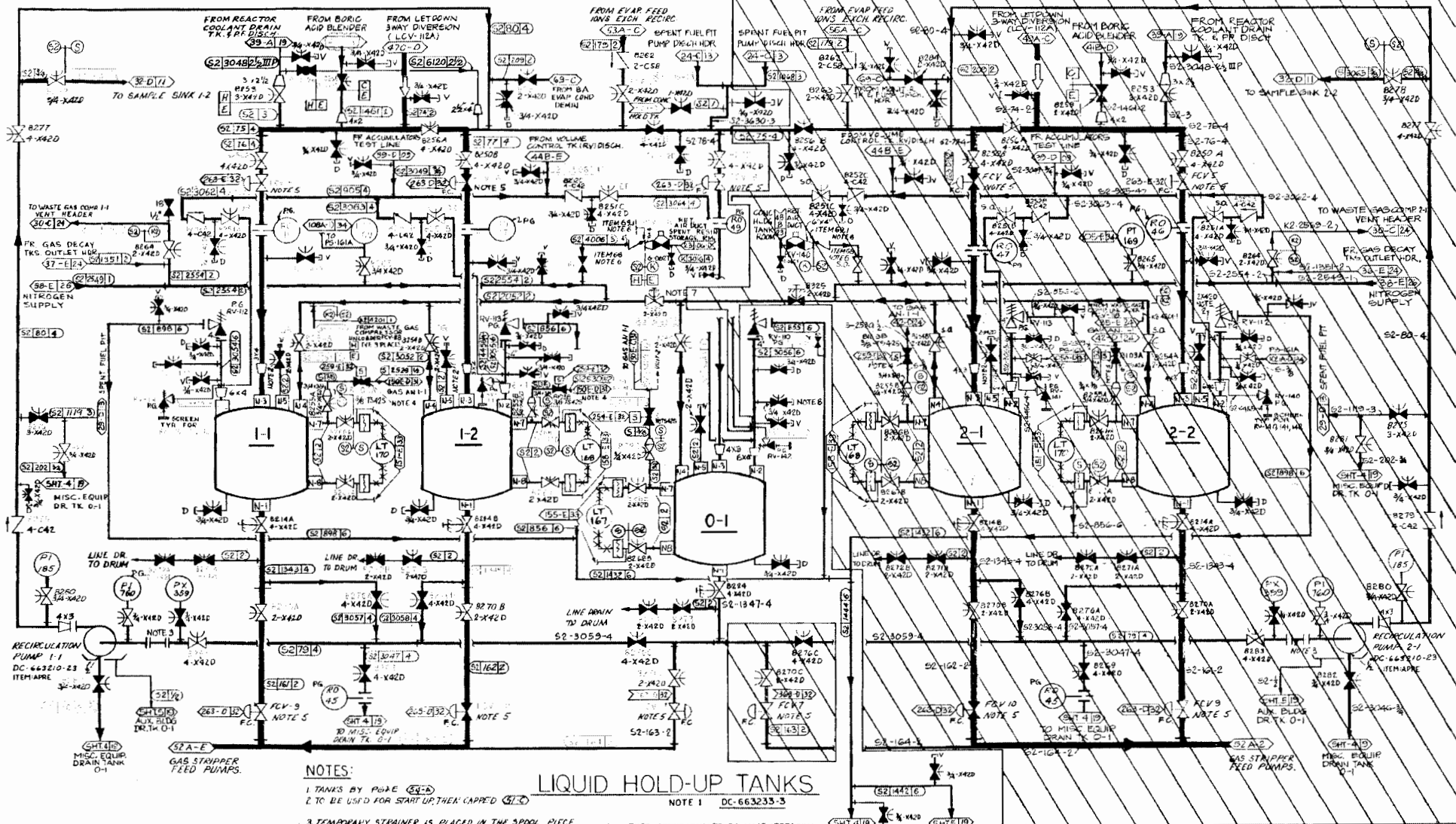
CHEMICAL & VOLUME CONTROL SYSTEM			
1	2	3	4
5	6	7	8
9	10	11	12
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17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
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85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

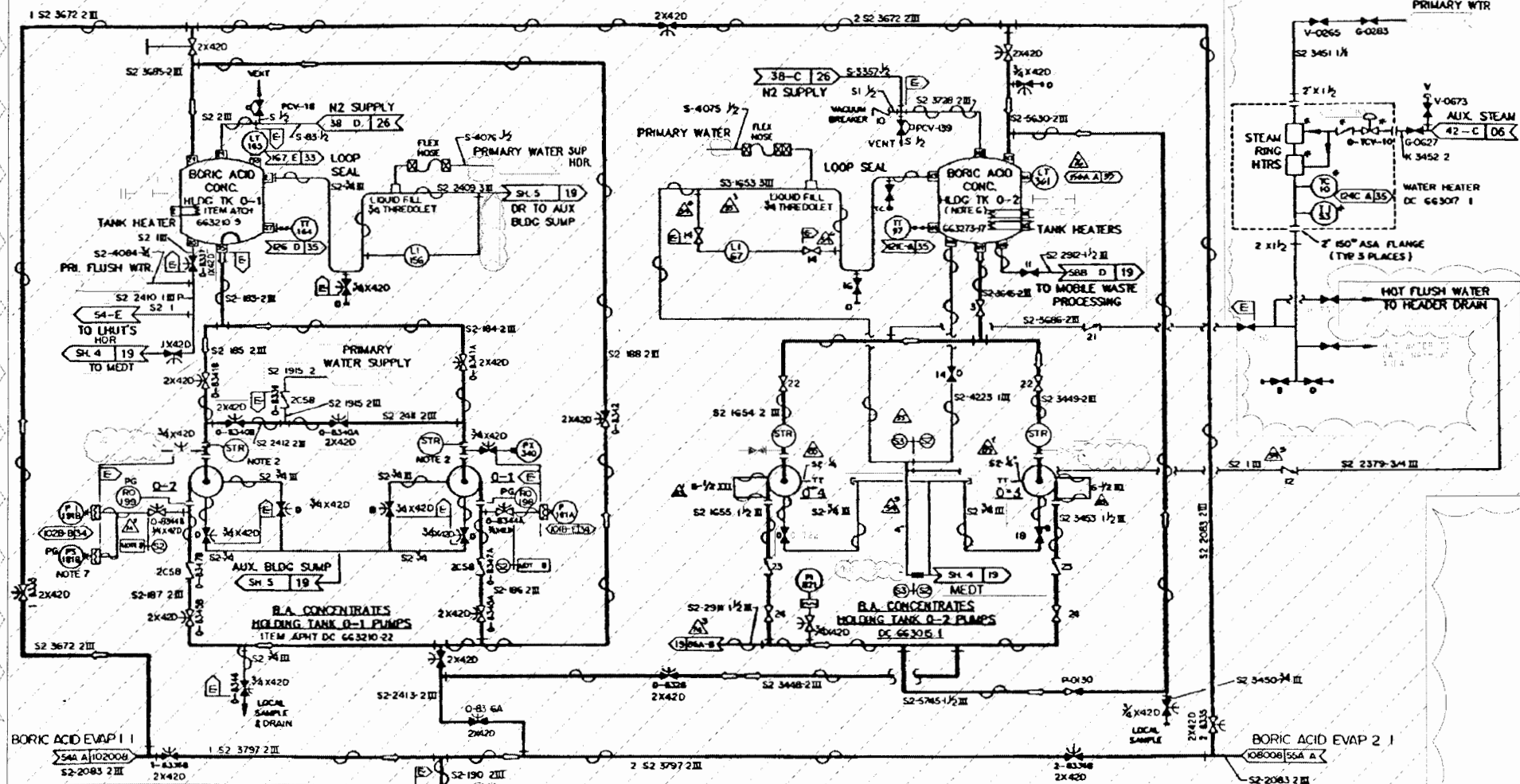


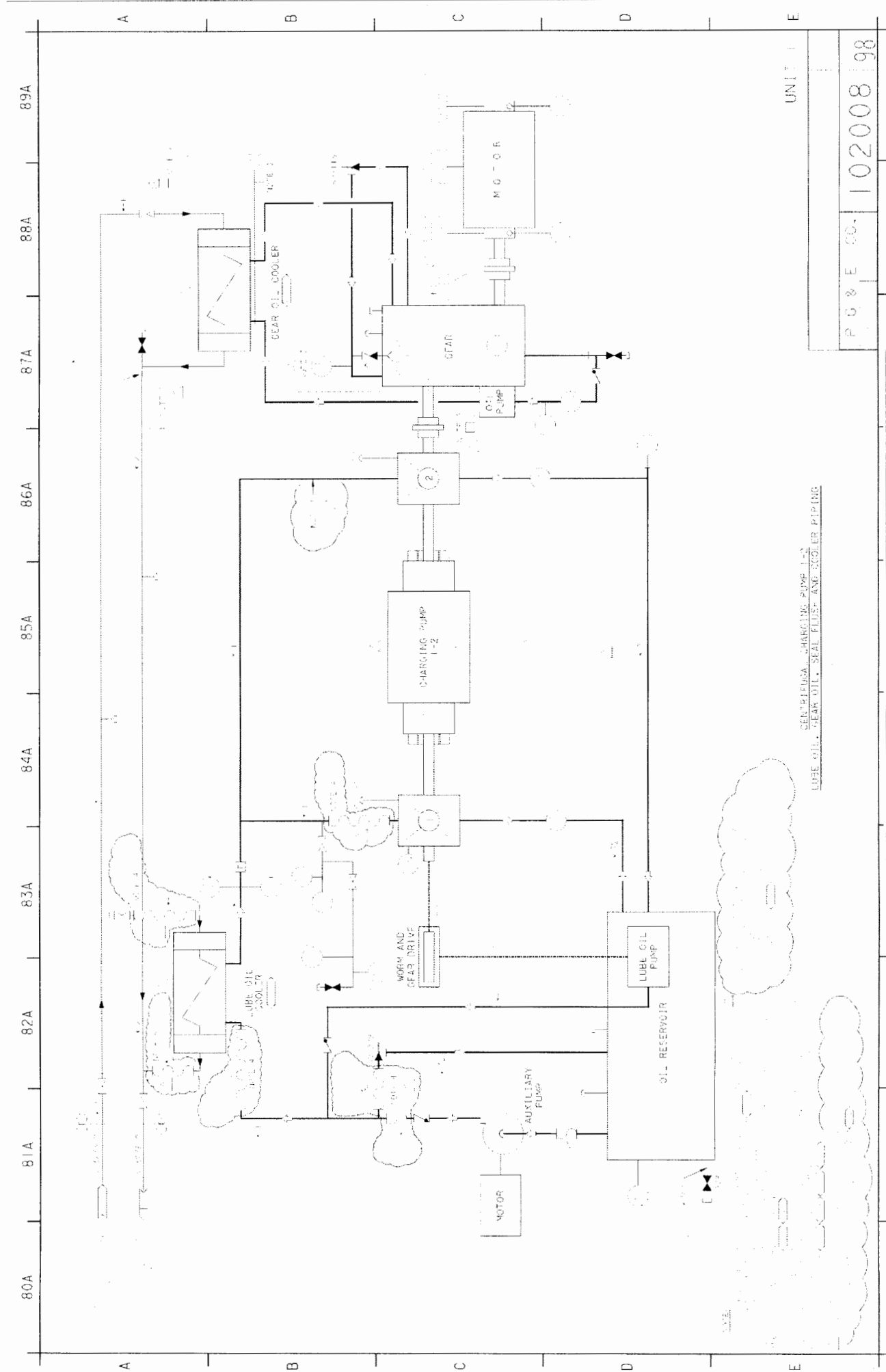




1.40	1.41	1.42	1.43	1.44	1.45	1.46	1.47	1.48	1.49
1.50	1.51	1.52	1.53	1.54	1.55	1.56	1.57	1.58	1.59
1.60	1.61	1.62	1.63	1.64	1.65	1.66	1.67	1.68	1.69
1.70	1.71	1.72	1.73	1.74	1.75	1.76	1.77	1.78	1.79
1.80	1.81	1.82	1.83	1.84	1.85	1.86	1.87	1.88	1.89
1.90	1.91	1.92	1.93	1.94	1.95	1.96	1.97	1.98	1.99



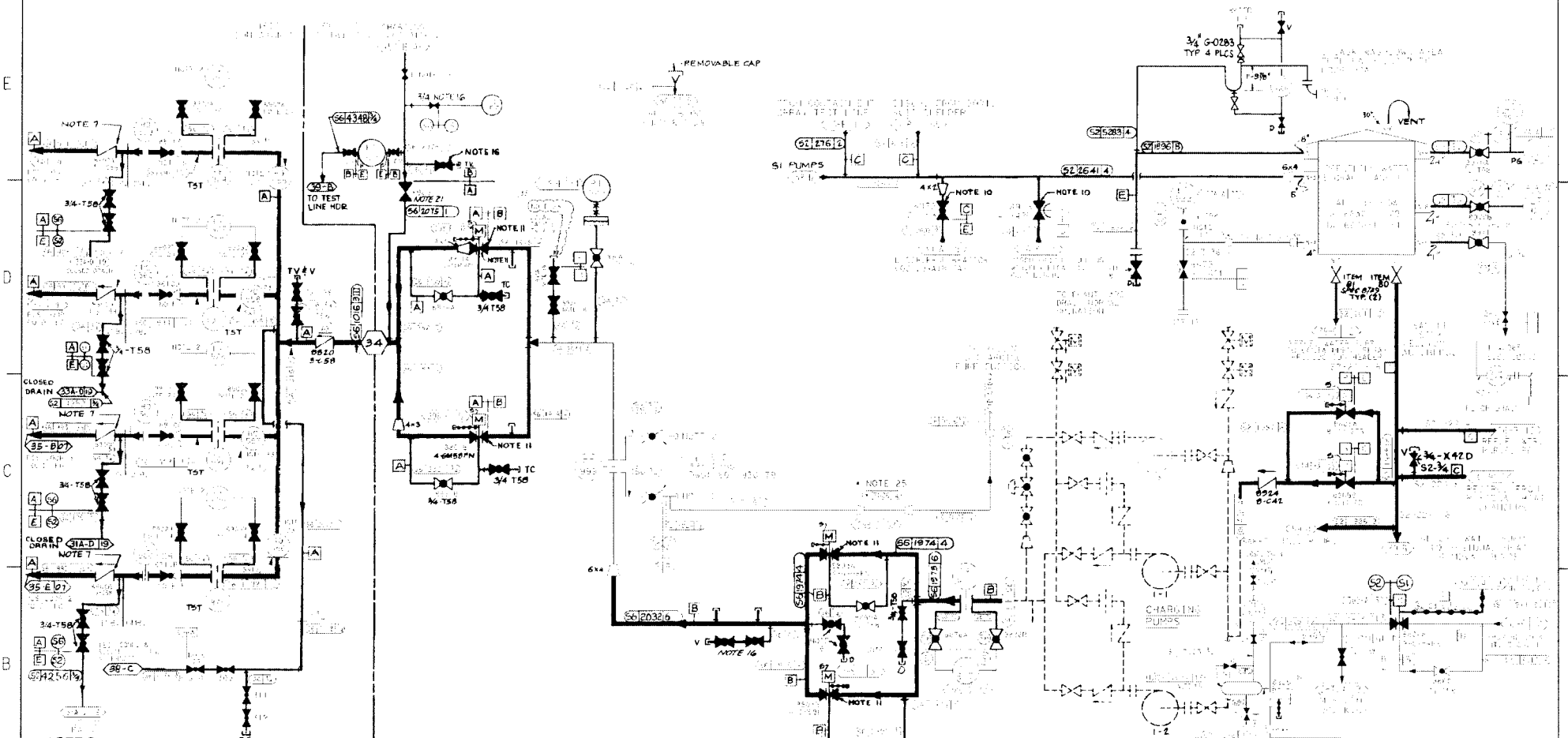




CENTRIFUGAL CHARGING PUMP 1-2
 LUBE OIL, GEAR OIL, SEAL FLUID, AND COOLER PIPING

UNIT 1

P. O. & E. CO. 102008 98

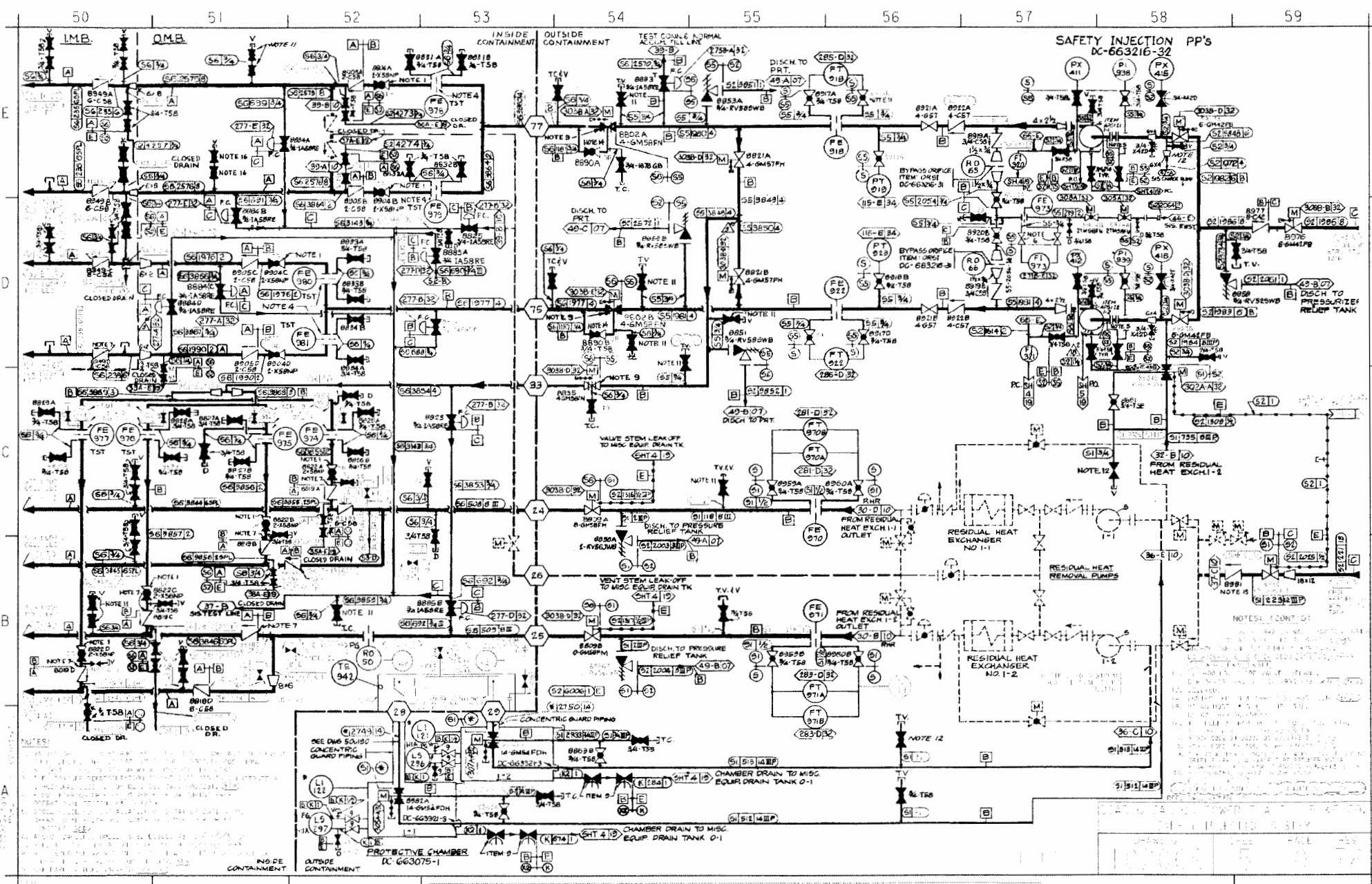


NOTES:

2. FLOW METERING ORIGIN TO VERIFY FLOW (41-50)
DURING OPERATIONAL TESTING
3. FLOW METERING ORIGIN TO VERIFY FLOW (41-50)
DURING OPERATIONAL TESTING
4. PS INDICATES PS&E CO. SCOME
DURING OPERATIONAL TESTING
5. FLOW METERING ORIGIN TO VERIFY FLOW (41-50)
DURING OPERATIONAL TESTING
6. ALL WESTINGHOUSE ITEM NUMBERS IN SIS ARE
SHOWN WITHOUT PREFIX PS&E-91
7. SPECIAL LINE INSULATION INCLUDING CHC (42-52)
8. WHEN WATER IS CONTAMINATED, BUND PLANS (42-52)
WHICH WERE BEING MADE ARE INSTALLED TO ALLOW
DRAINING TO THE EQUIP DRAIN TANK 0-1.
VLY: GRANE-AUZYCO (REF 931713)

1. $\frac{1}{2} \ln 2 = \frac{1}{2} \ln \frac{2}{1} = \frac{1}{2} \ln 2 - \frac{1}{2} \ln 1 = \frac{1}{2} \ln 2 - 0 = \frac{1}{2} \ln 2$
 2. $\ln 1 = 0$
 3. $\ln 2 = \ln \frac{2}{1} = \ln 2 - \ln 1 = \ln 2 - 0 = \ln 2$
 4. $\ln 3 = \ln \frac{3}{1} = \ln 3 - \ln 1 = \ln 3 - 0 = \ln 3$
 5. $\ln 4 = \ln \frac{4}{1} = \ln 4 - \ln 1 = \ln 4 - 0 = \ln 4$
 6. $\ln 5 = \ln \frac{5}{1} = \ln 5 - \ln 1 = \ln 5 - 0 = \ln 5$
 7. $\ln 6 = \ln \frac{6}{1} = \ln 6 - \ln 1 = \ln 6 - 0 = \ln 6$
 8. $\ln 7 = \ln \frac{7}{1} = \ln 7 - \ln 1 = \ln 7 - 0 = \ln 7$
 9. $\ln 8 = \ln \frac{8}{1} = \ln 8 - \ln 1 = \ln 8 - 0 = \ln 8$
 10. $\ln 9 = \ln \frac{9}{1} = \ln 9 - \ln 1 = \ln 9 - 0 = \ln 9$
 11. $\ln 10 = \ln \frac{10}{1} = \ln 10 - \ln 1 = \ln 10 - 0 = \ln 10$
 12. $\ln 11 = \ln \frac{11}{1} = \ln 11 - \ln 1 = \ln 11 - 0 = \ln 11$
 13. $\ln 12 = \ln \frac{12}{1} = \ln 12 - \ln 1 = \ln 12 - 0 = \ln 12$
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 49. $\ln 48 = \ln \frac{48}{1} = \ln 48 - \ln 1 = \ln 48 - 0 = \ln 48$
 50. $\ln 49 = \ln \frac{49}{1} = \ln 49 - \ln 1 = \ln 49 - 0 = \ln 49$
 51. $\ln 50 = \ln \frac{50}{1} = \ln 50 - \ln 1 = \ln 50 - 0 = \ln 50$
 52. $\ln 51 = \ln \frac{51}{1} = \ln 51 - \ln 1 = \ln 51 - 0 = \ln 51$
 53. $\ln 52 = \ln \frac{52}{1} = \ln 52 - \ln 1 = \ln 52 - 0 = \ln 52$
 54. $\ln 53 = \ln \frac{53}{1} = \ln 53 - \ln 1 = \ln 53 - 0 = \ln 53$
 55. $\ln 54 = \ln \frac{54}{1} = \ln 54 - \ln 1 = \ln 54 - 0 = \ln 54$
 56. $\ln 55 = \ln \frac{55}{1} = \ln 55 - \ln 1 = \ln 55 - 0 = \ln 55$
 57. $\ln 56 = \ln \frac{56}{1} = \ln 56 - \ln 1 = \ln 56 - 0 = \ln 56$
 58. $\ln 57 = \ln \frac{57}{1} = \ln 57 - \ln 1 = \ln 57 - 0 = \ln 57$
 59. $\ln 58 = \ln \frac{58}{1} = \ln 58 - \ln 1 = \ln 58 - 0 = \ln 58$
 60. $\ln 59 = \ln \frac{59}{1} = \ln 59 - \ln 1 = \ln 59 - 0 = \ln 59$
 61. $\ln 60 = \ln \frac{60}{1} = \ln 60 - \ln 1 = \ln 60 - 0 = \ln 60$
 62. $\ln 61 = \ln \frac{61}{1} = \ln 61 - \ln 1 = \ln 61 - 0 = \ln 61$
 63. $\ln 62 = \ln \frac{62}{1} = \ln 62 - \ln 1 = \ln 62 - 0 = \ln 62$
 64. $\ln 63 = \ln \frac{63}{1} = \ln 63 - \ln 1 = \ln 63 - 0 = \ln 63$
 65. $\ln 64 = \ln \frac{64}{1} = \ln 64 - \ln 1 = \ln 64 - 0 = \ln 64$
 66. $\ln 65 = \ln \frac{65}{1} = \ln 65 - \ln 1 = \ln 65 - 0 = \ln 65$
 67. $\ln 66 = \ln \frac{66}{1} = \ln 66 - \ln 1 = \ln 66 - 0 = \ln 66$
 68. $\ln 67 = \ln \frac{67}{1} = \ln 67 - \ln 1 = \ln 67 - 0 = \ln 67$
 69. $\ln 68 = \ln \frac{68}{1} = \ln 68 - \ln 1 = \ln 68 - 0 = \ln 68$
 70. $\ln 69 = \ln \frac{69}{1} = \ln 69 - \ln 1 = \ln 69 - 0 = \ln 69$
 71. $\ln 70 = \ln \frac{70}{1} = \ln 70 - \ln 1 = \ln 70 - 0 = \ln 70$
 72. $\ln 71 = \ln \frac{71}{1} = \ln 71 - \ln 1 = \ln 71 - 0 = \ln 71$
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 74. $\ln 73 = \ln \frac{73}{1} = \ln 73 - \ln 1 = \ln 73 - 0 = \ln 73$
 75. $\ln 74 = \ln \frac{74}{1} = \ln 74 - \ln 1 = \ln 74 - 0 = \ln 74$
 76. $\ln 75 = \ln$

[illegible][illegible]



50A

51A

52A

53A

54A

55A

56A

57A

58A

59A

E

D

C

B

A

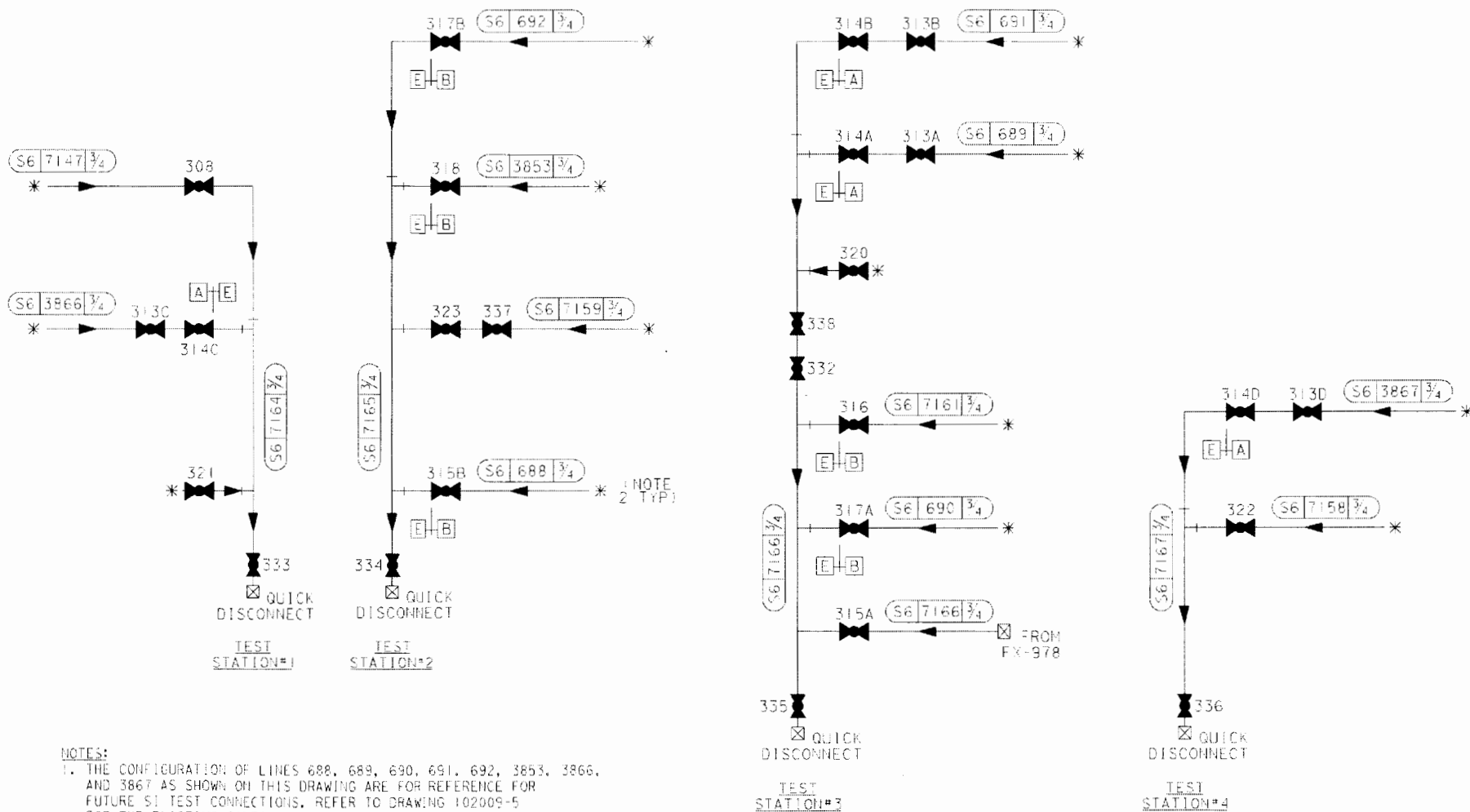
E

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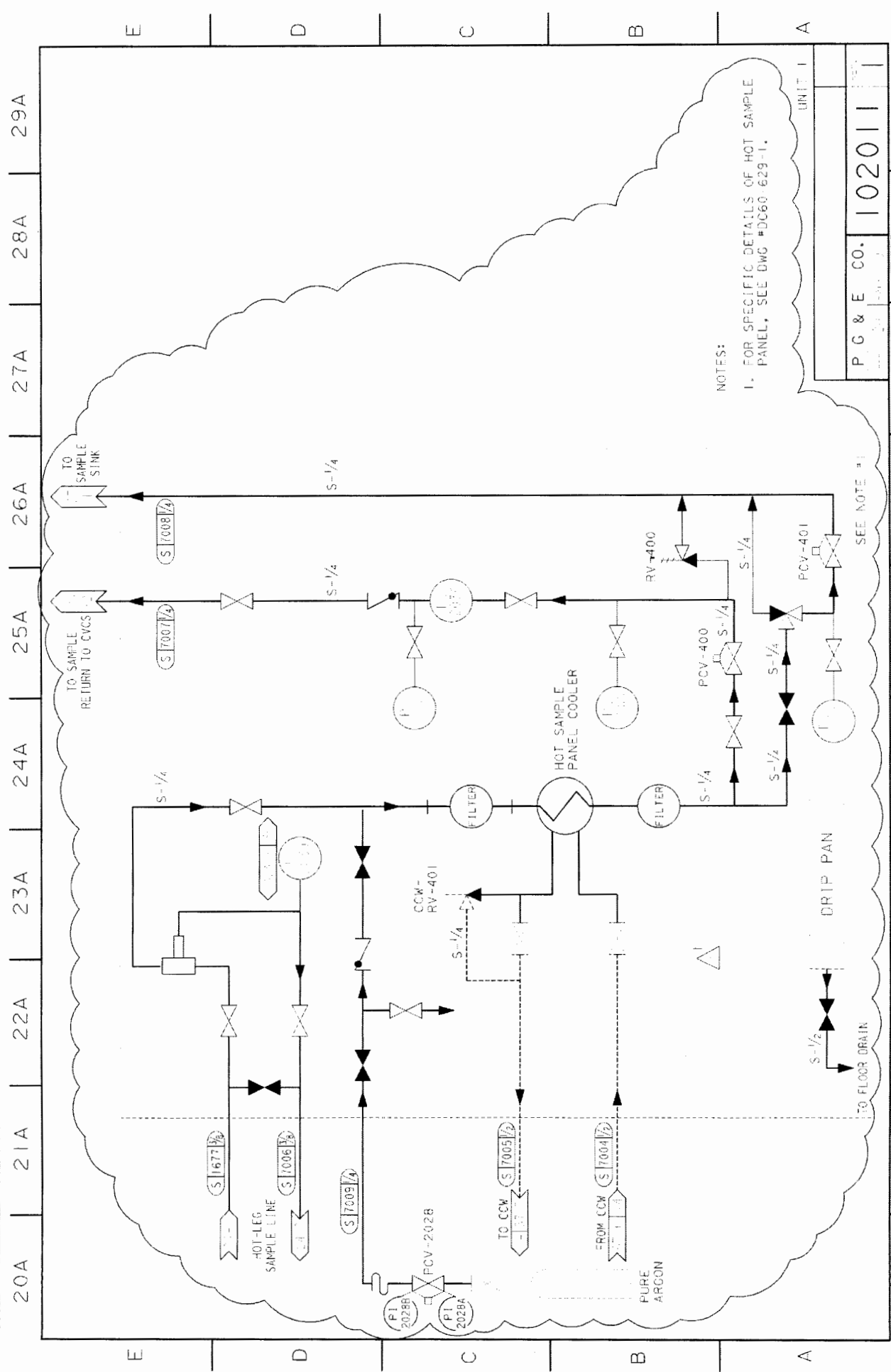
UNIT 1

DIABLO CANYON POWER PLANT - PG&E CO.			
SAFETY INJECTION SYSTEM			
DRAWING	SHEET	PAGE	REV
102009	5A	0	1

10-28-2010 10-28-2010
 102009-5A.dgn
 102009-5A.dgn
 10-28-2010 10-28-2010

15/28

10-28-2010	GN07	FX02		PERSI J. DALAL	MECHANICAL	M 16690	3/31/2012	INITIAL ISSUE PER DDN 2*566
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NOTES:

1. FOR SPECIFIC DETAILS OF HOT SAMPLE PANEL, SEE DWG #DC60 629-1.

P G & E CO.

102011

DATE	REV	BY	CHK	APP	UNIT
10/20/11	1	PG&E	PG&E	PG&E	1

20A | 21A | 22A | 23A | 24A | 25A | 26A | 27A | 28A | 29A

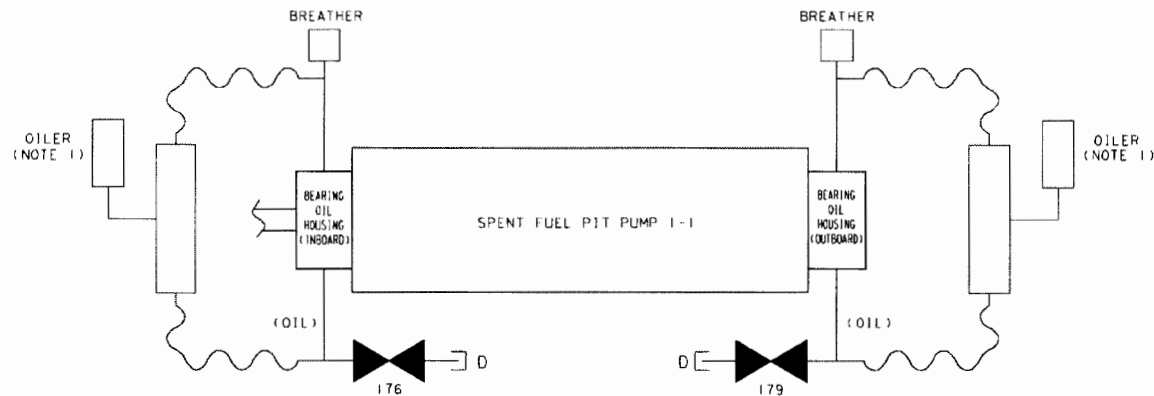
E

D

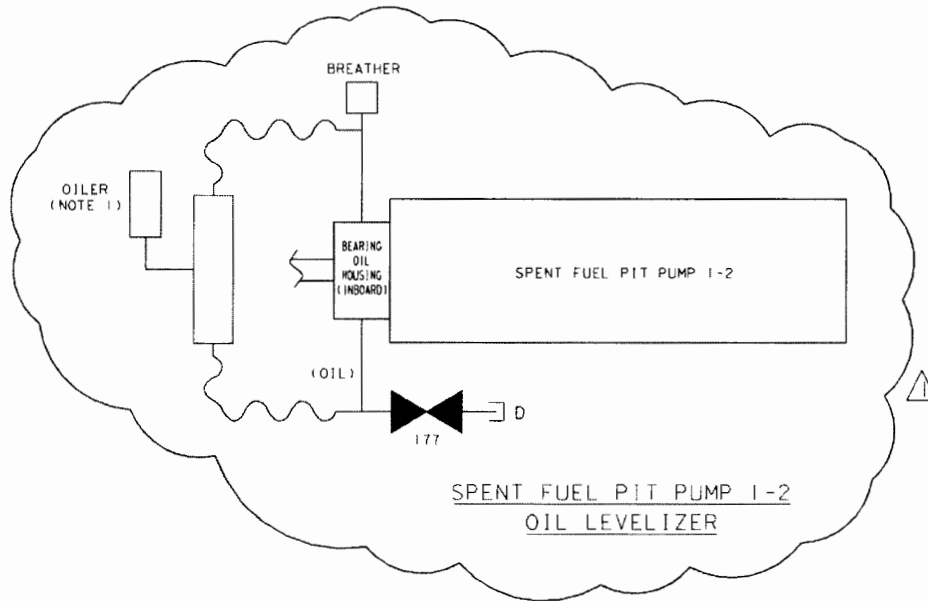
C

B

A



SPENT FUEL PIT PUMP 1-1
OIL LEVELIZER



SPENT FUEL PIT PUMP 1-2
OIL LEVELIZER

NOTES:
1. SEE DRAWING *068845 FOR ADDITIONAL DETAILS.

UNIT 1

DIABLO CANYON POWER PLANT - PG&E CO.			
SPENT FUEL PIT COOLING SYSTEM			
DRAWING	SHEET	PAGE	REV
102013	2A	0	2

102013s2A.dgn
 102013s2A.dgn
 04-05-2012
 MNRU

04-05-2012	MNRU	FAZI	KERSJ J. DALAL	MECHANICAL	M 16690	3/31/2014	REVISED PER DFT-7*1552-0
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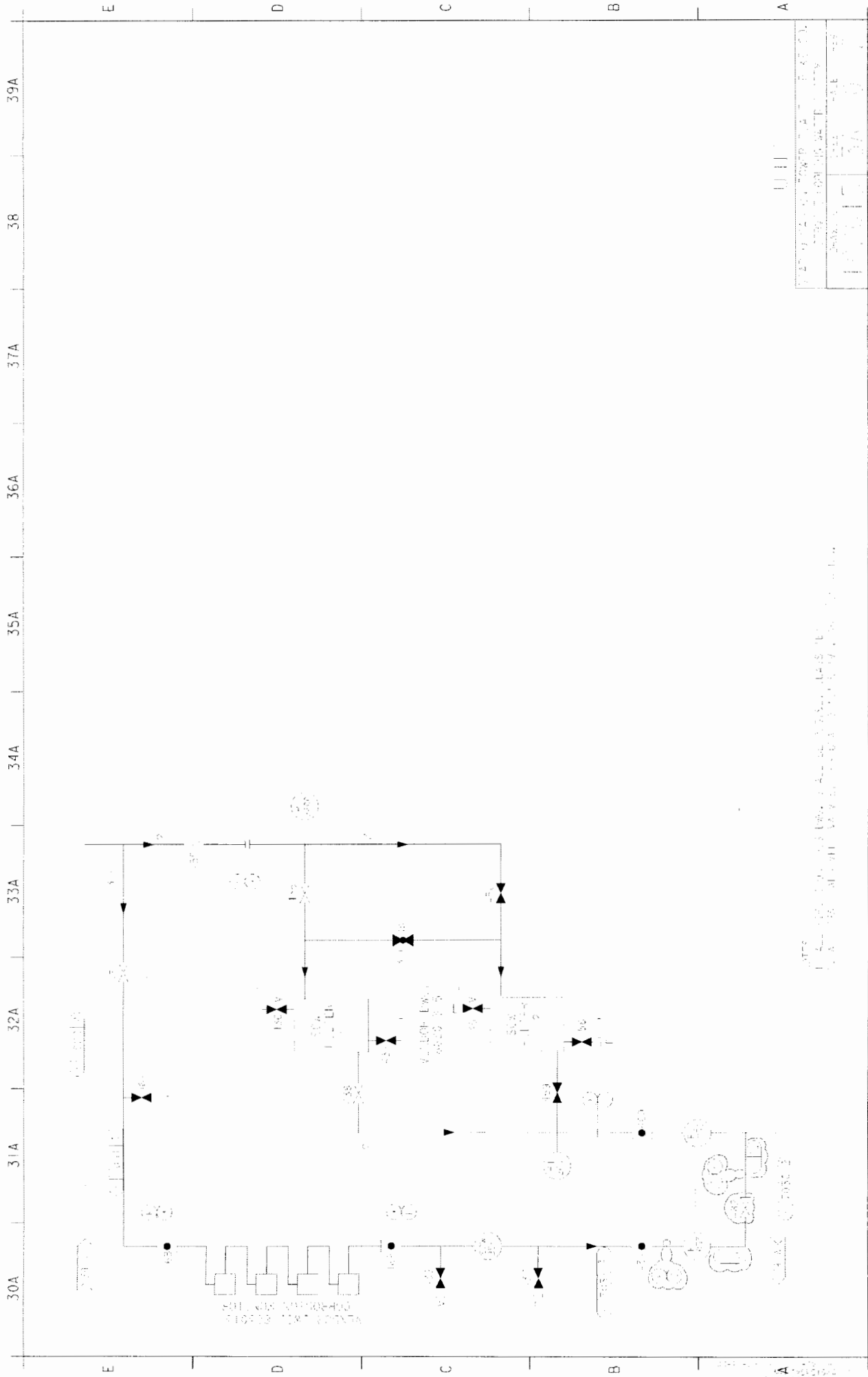


PROJECT NO.	100-100
DATE	10/10/10
DESIGNED BY	100-100
CHECKED BY	100-100
APPROVED BY	100-100

100-100

100-100

100-100



UNIT	
1/2"	3/4"
1/4"	1/2"
1/8"	1/4"

40A

41A

42A

42A

44A

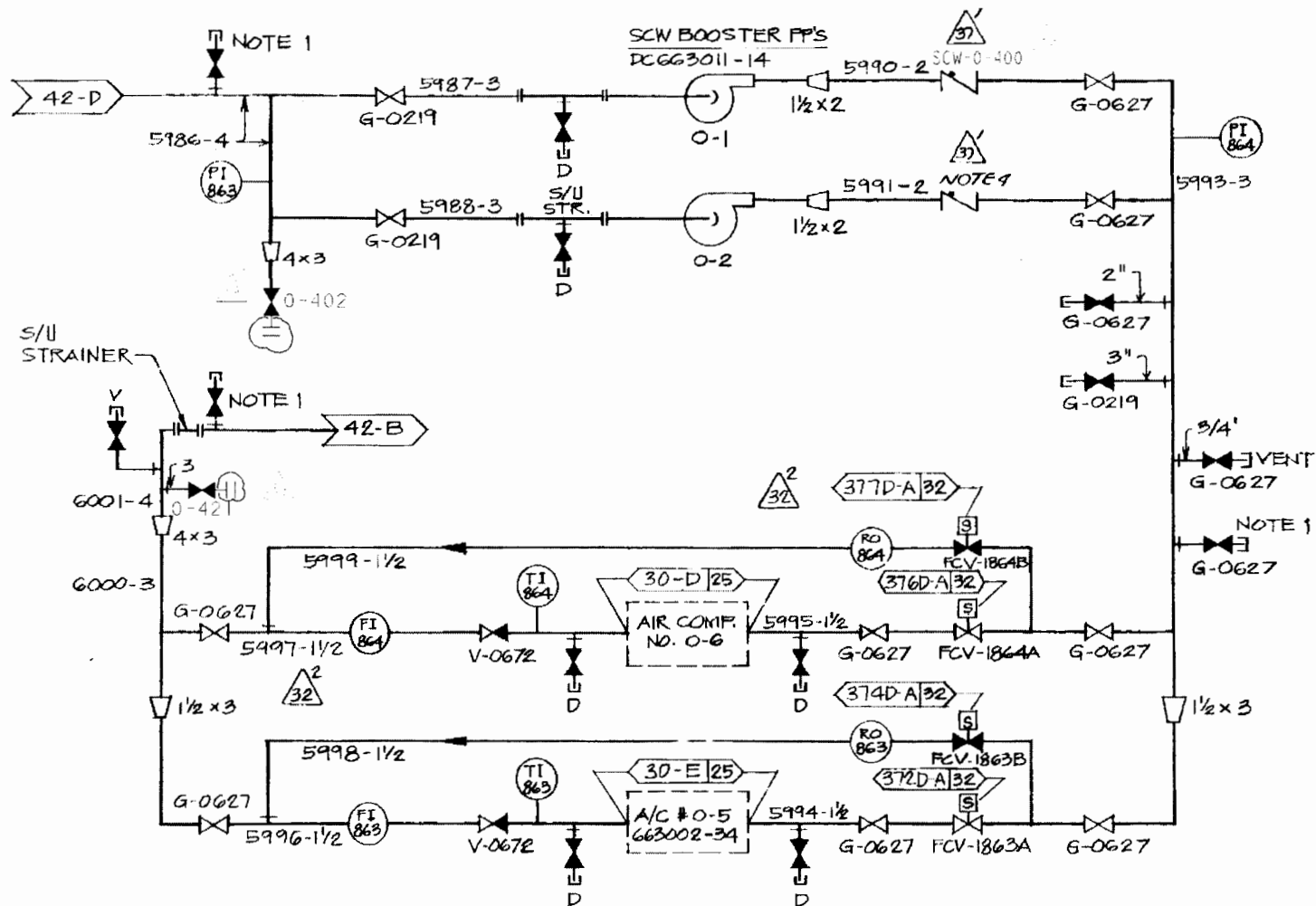
45A

46A

47A

48A

49A



- NOTES: 1. CHEMICAL FLUSH CONNECTIONS ARE 3/4" SPEC K WITH G-0627 ROOT VALVE (TYP. OF 3 LOC.)
2. PIPING LINE DESIGNATION NPS TO BE 'K' SPECS.
3. ALL PIPING THIS SHEET SHALL BE PG&E CLASS 'E'
4. CHECK VALVE IS KEROTEST MODEL 6032-71

UNIT 1

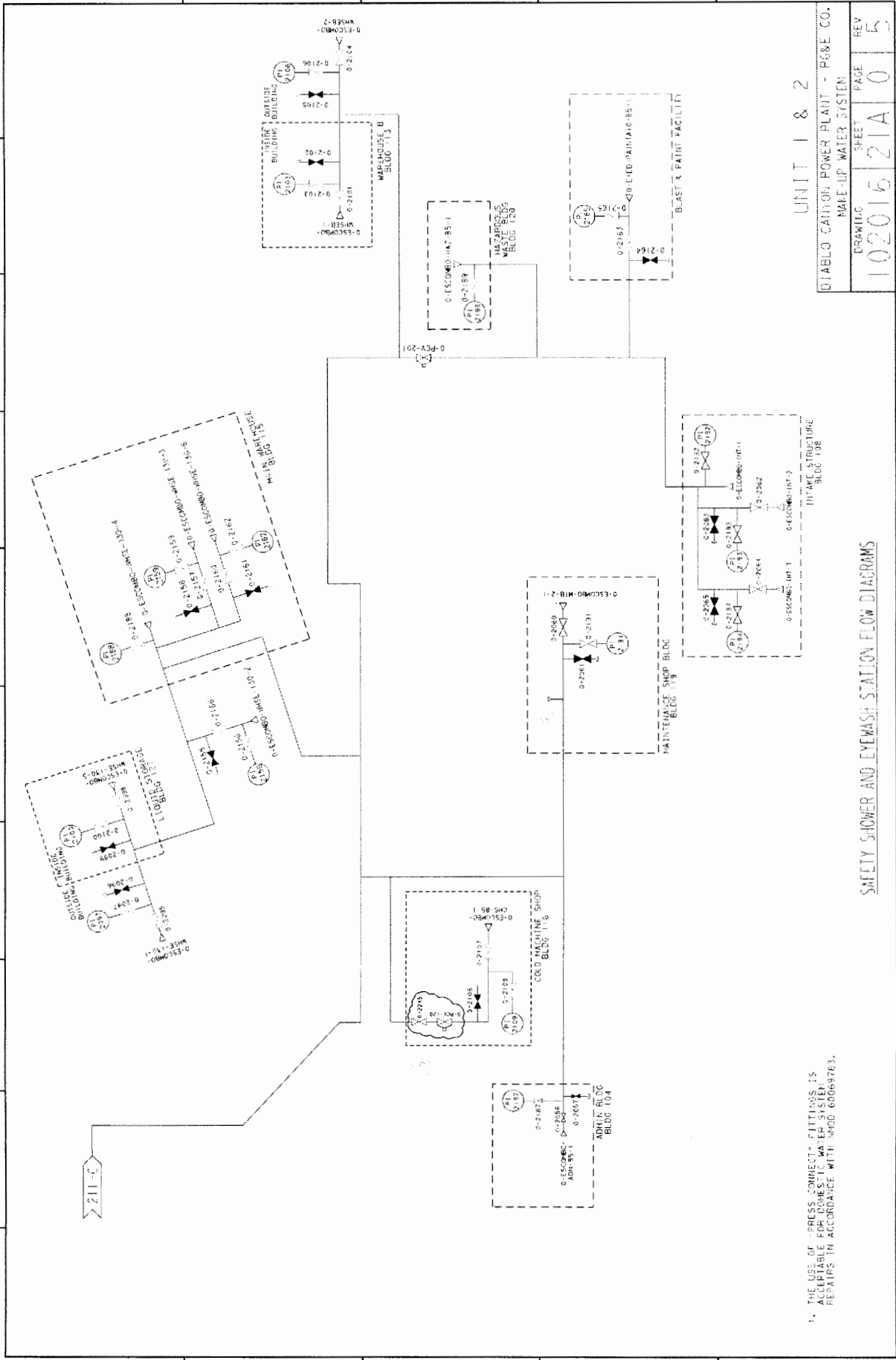
DIABLO CANYON POWER PLANT - PG&E CO.
SERVICE COOLING WATER SYSTEM

DRAWING	SHEET	PAGE	REV
102015	4A	0	39

01-28-2008	JARO	FXC2	KERSI J. DALAL	MECHANICAL M 16690	3.31.2008	REVISED PER FCT-32762
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102015.dgn
102015.dgn
JARO 01-28-2008

210A | 211A | 212A | 213A | 214A | 215A | 216A | 217A | 218A | 219A



UNIT 1 & 2
 DIABLO CANYON POWER PLANT - P&E CO.
 MAKE-UP WATER SYSTEM
 DRAWING SHEET PAGE
 102016 21A 0 5

REVISED PER DDY-21333
 09-03-2014 MFRU FXC2 KUD3 NOT REQUIRED PER CF3.1D5
 10201621A.dgn
 09-03-2014 MFRU FXC2 KUD3 NOT REQUIRED PER CF3.1D5

1. THE USE OF PRESS CONNECT FITTINGS IS ACCEPTABLE FOR DOMESTIC WATER SYSTEM REPAIRS IN ACCORDANCE WITH NDD 60069763.

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89

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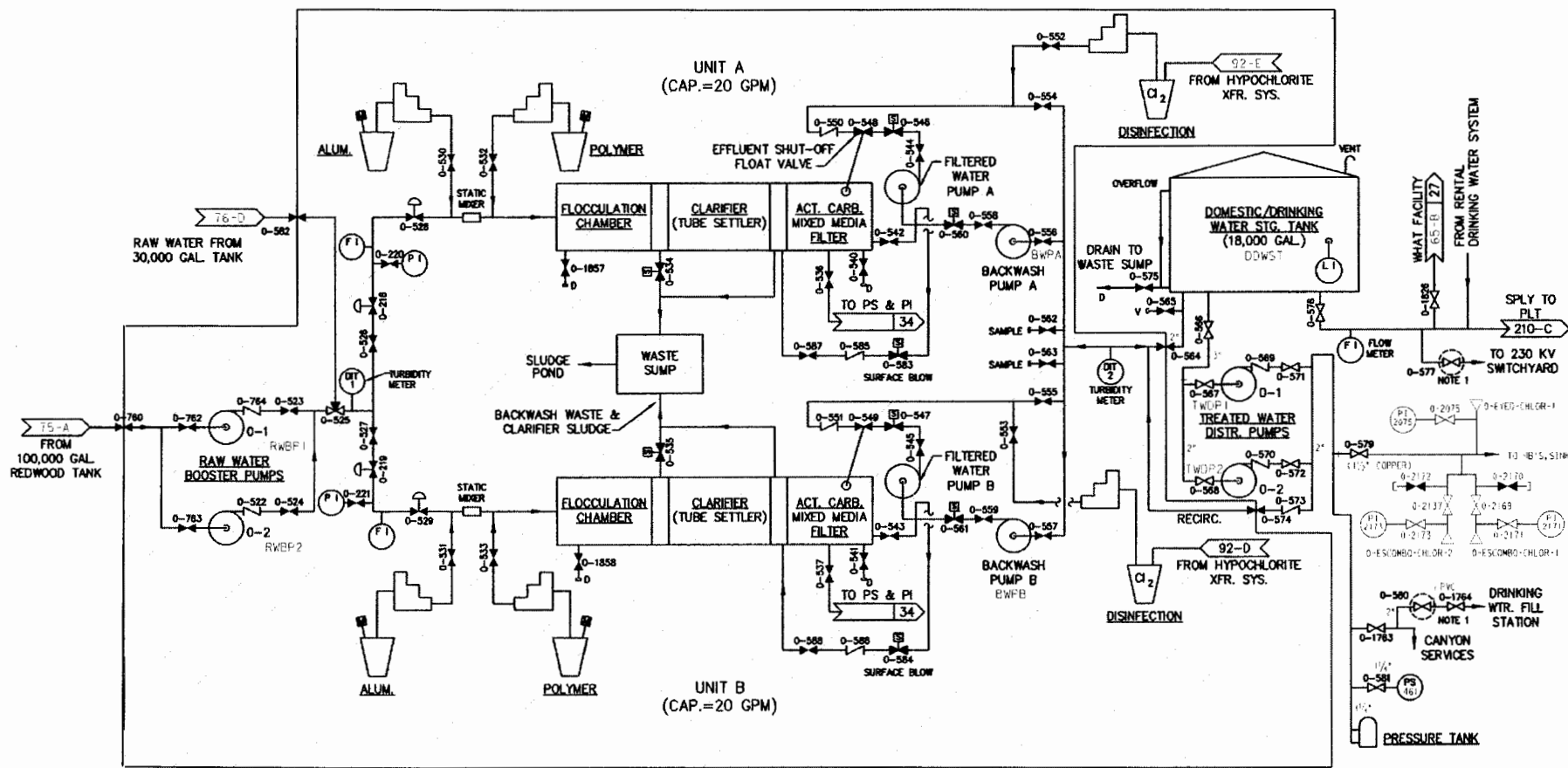
E

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NOTES:

1. UNDERGROUND VALVE
2. SHADED AREA ABANDONED EQUIP.
3. THE USE OF "PRESS CONNECT" FITTINGS IS ACCEPTABLE FOR DOMESTIC WATER SYSTEM REPAIRS IN ACCORDANCE WITH NHD 60069783.

DOMESTIC/DRINKING WATER TREATMENT SYSTEM

UNIT 1

DIABLO CANYON POWER PLANT - PC&E CO.
MAKE-UP WATER SYSTEM

DRAWING	SHEET	PAGE	REV
102016	8	0	108

07-15-2014 MNPJL Fx02 KJD3 NOT REQUIRED PER CF3.105

REVISED PER DDT-4*1077

90A

91A

92A

93A

94A

95A

96A

97A

98A

99A

GENERAL NOTES:

1) (P) INDICATES PUMPED DOMESTIC WATER LINES

2) (G) INDICATES GRAVITY DOMESTIC WATER LINES

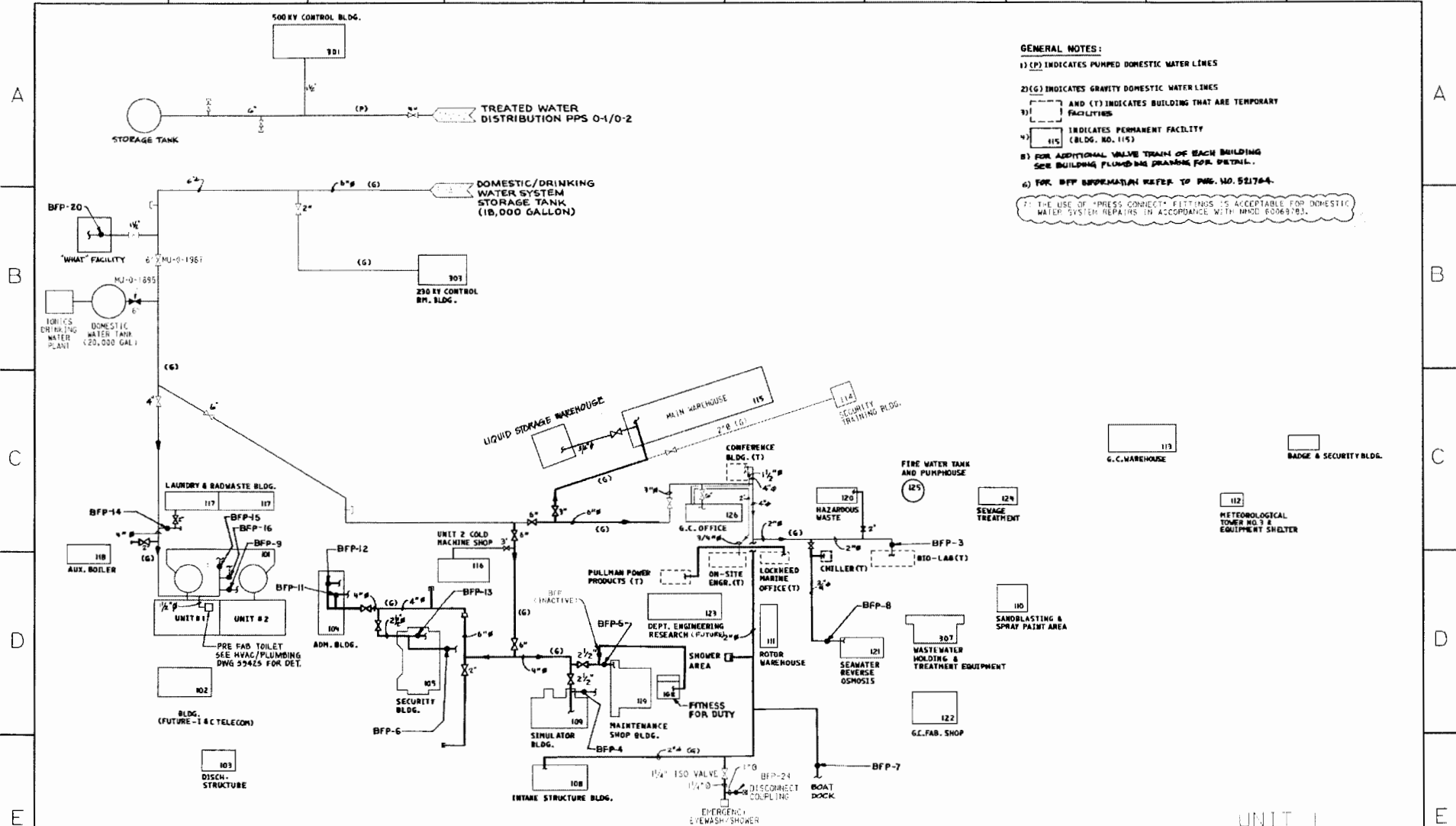
3) [] AND (T) INDICATES BUILDING THAT ARE TEMPORARY FACILITIES

4) [] INDICATES PERMANENT FACILITY (BLDG. NO. 115)

5) FOR ADDITIONAL VALVE TRAIN OF EACH BUILDING SEE BUILDING PLUMBING DRAWING FOR DETAIL.

6) FOR BFP SUPPLEMENTARY WATER TO DWG. NO. 52176-4.

7) THE USE OF "PRESS CONNECT" FITTINGS IS ACCEPTABLE FOR DOMESTIC WATER SYSTEM REPAIRS IN ACCORDANCE WITH MMSD 600697B3.



DOMESTIC WATER FLOW DIAGRAM FOR DIABLO CANYON POWER PLANT

UNIT 1			
DIABLO CANYON POWER PLANT - PG&E CO.			
MAKE-UP WATER SYSTEM			
DRAWING	SHEET	PAGE	REV
102016	9A	0	77

07-15-2014 MNRU Fxc2 KJD3 NOT REQUIRED PER CF3.1D5

REVISED PER DDT-4 *077

10-1-2016 s9a.dgn
 10-1-2016 s9a.dgn
 07-15-2014 MNRU

110 111 112 113 114 115 116 117 118 119

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A

**RAW WATER OPEN
RESERVOIR 0-1
4,500,000 GALS.**



NOTES:

1. 5 RELIEF/VACUUM BKRS LOCATED IN VLV BOXES, BACKFILLED WITH SAND, LOCATED BETWEEN PERM XFR PPS & RESERVOIRS (UNDERGROUND).
2. SHADED AREAS ARE ABANDONED EQUIP.

— VALVE LOCATION UNDER COVER PLATE BELOW GROUND LEVEL

NOT REQ'D FOR PID

VALVE I.D. NO.	LOCATION
0-245; 0-265; 0-267	INSIDE RESERVOIR FENCE
0-881; 0-266; 0-880	OUTSIDE RESERVOIR FENCE
0-268; 0-269; 0-270	TOP OF UTILITY TRAIL
0-271	
0-272; 0-273; 0-274	BASE OF UTILITY TRAIL ON ROAD BED
0-275	
0-882	ALONG SIDE PLT ROAD HALFWAY DOWNHILL
0-880; 0-269	COVERED, NOT ACCESSIBLE
0-239; 0-261; 0-263	SLIDING GATES
0-266	IN POLYMETRICS PARKING LOT

SHADED AREA ABANDONED EQUIP

NOTE 1

6" PVC

SEE 60031-11-1051

TO/FROM RAW WTR. HYPOCHLORITE TREATMENT SYSTEM

EAST RESV. 0-1B

WEST RESV. 0-1A

SLUDGE UNIT

LOC. IN CEMENT BOX

OUTSIDE INSIDE

RAW WATER

FIRE WATER

FIRE SYSTEM YARD LOOP

THREADED HOSE CONN.

PACKAGED BOILER BLOWDOWN TEMPERING TANK

FROM CST

UNIT 1

UNIT 2

DISTILLATE HX EXCHANGERS

UNIT 1 UNIT 2 AUX FEED PUMPS

DIABLO CANYON POWER PLANT - P&S CO.

MAKE-UP WATER SYSTEM

DRAWING 102016 SHEET 11 PAGE 0 REV 95

10-2016sl1.dgn
10-2016sl1.dgn
10-2016sl1.dgn
10-2016sl1.dgn

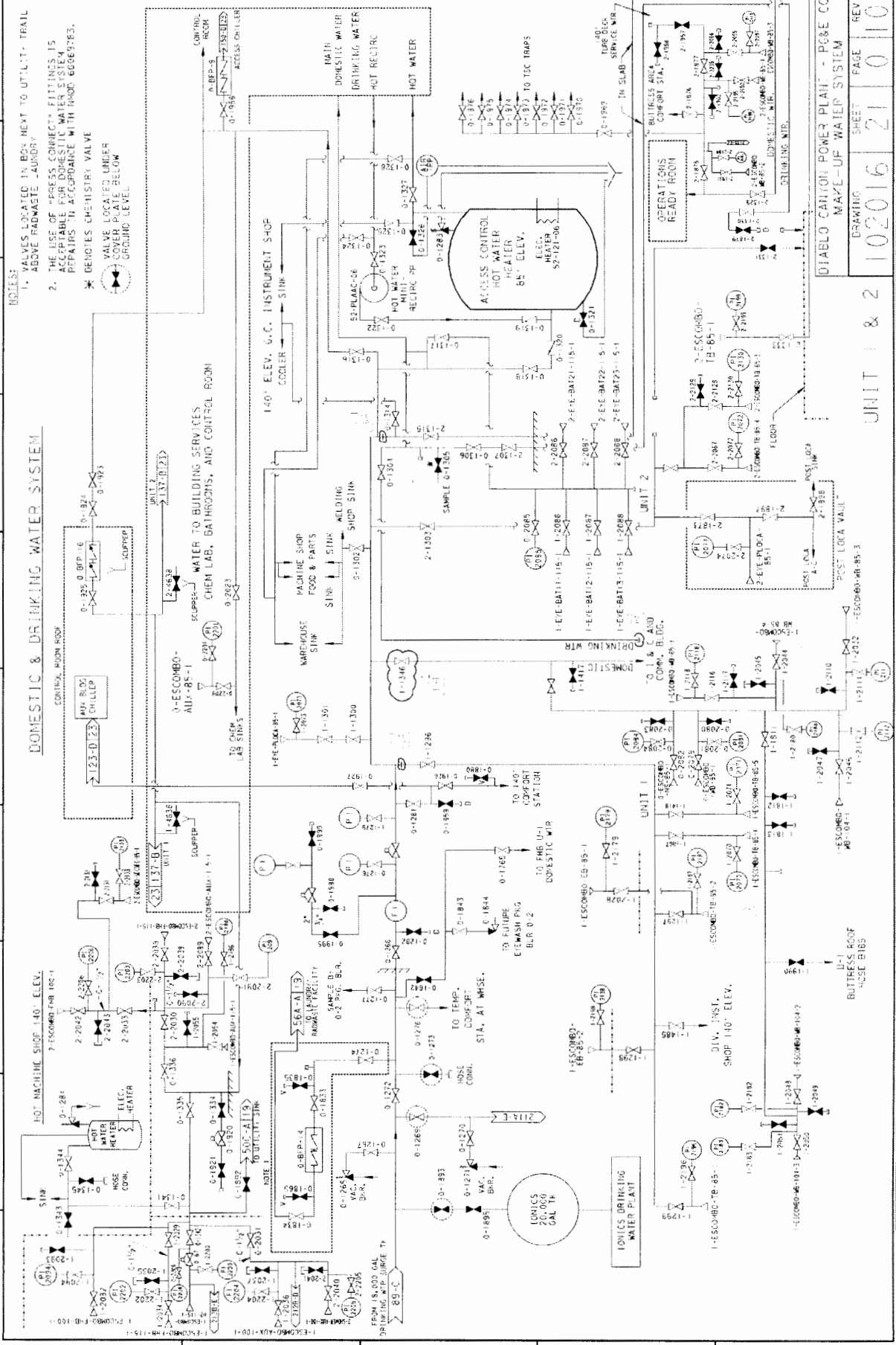
04-28-2014

04-28-2014 MNRU Fxc2 FAZI NOT REQUIRED PER CF3.1D5

REVISED PER DFT-7-2563

DOMESTIC & DRINKING WATER SYSTEM

- NOTES:
1. VALVES LOCATED IN BOX NEXT TO UTILITY TRAIL ABOVE RADWASTE LAUNDRY
 2. THE USE OF "PROCESS CORRECT" FITTINGS IS ACCEPTABLE FOR DOMESTIC WATER SYSTEM PIPING IN ACCORDANCE WITH INAD 6069783.
 3. DENOTES CHEMISTRY VALVE
 4. VALVE LOCATED UNDER COVER PLATE BELOW GROUND LEVEL

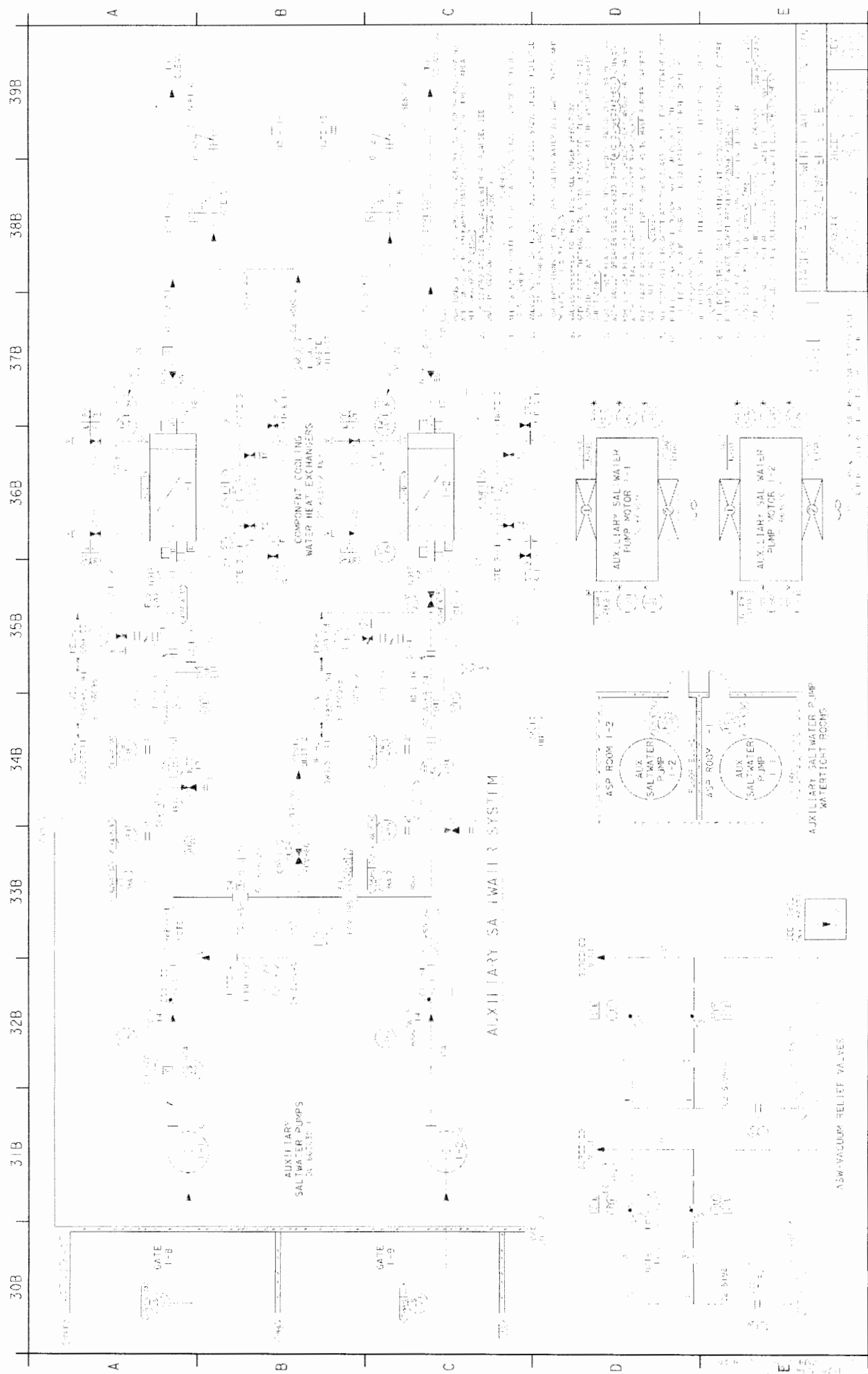


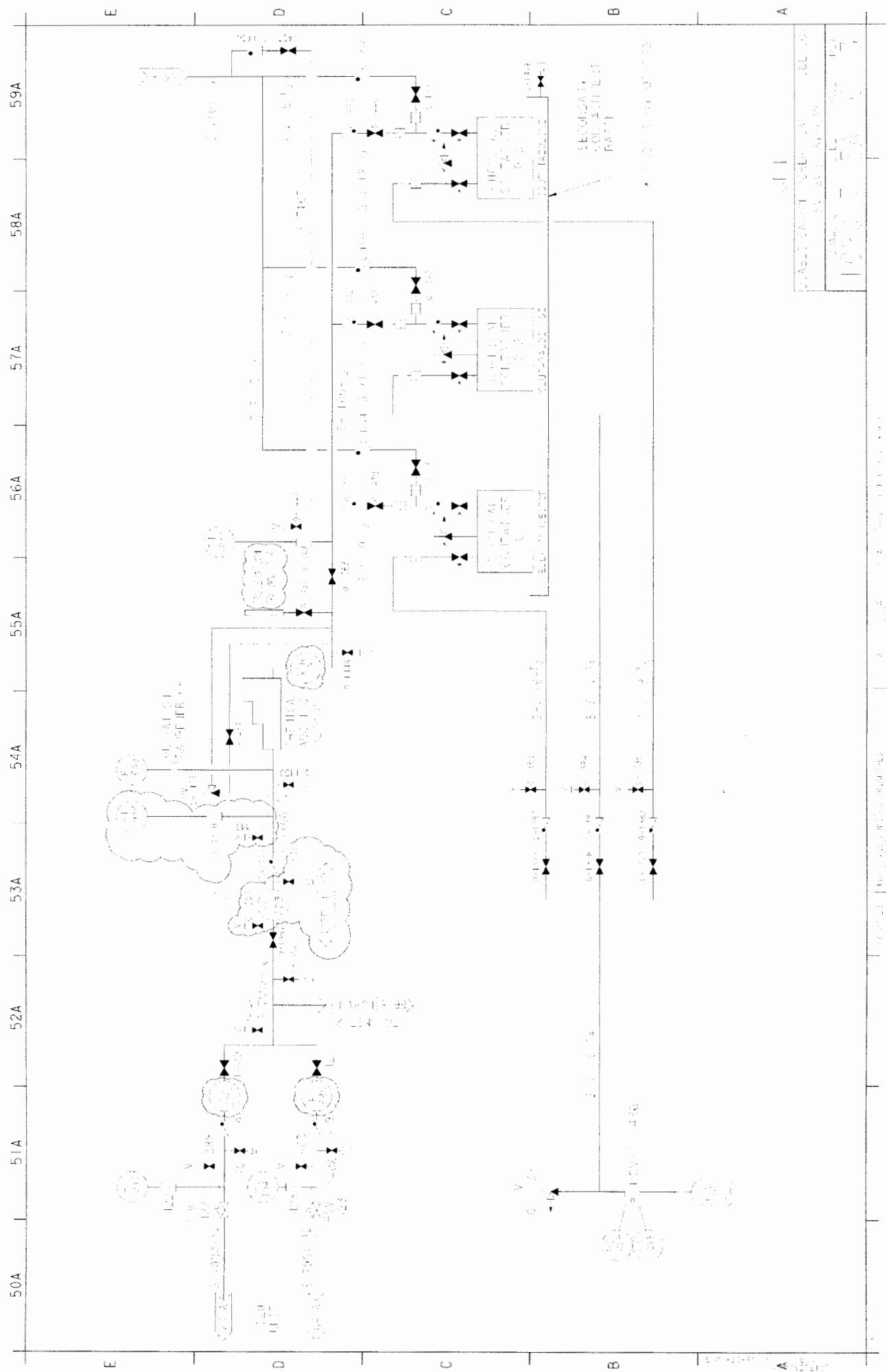
DIABLO CANON POWER PLAN - P&E CO.
 MAKE-UP WATER SYSTEM
 DRAWING SHEET PAGE REV
 102016 210 104

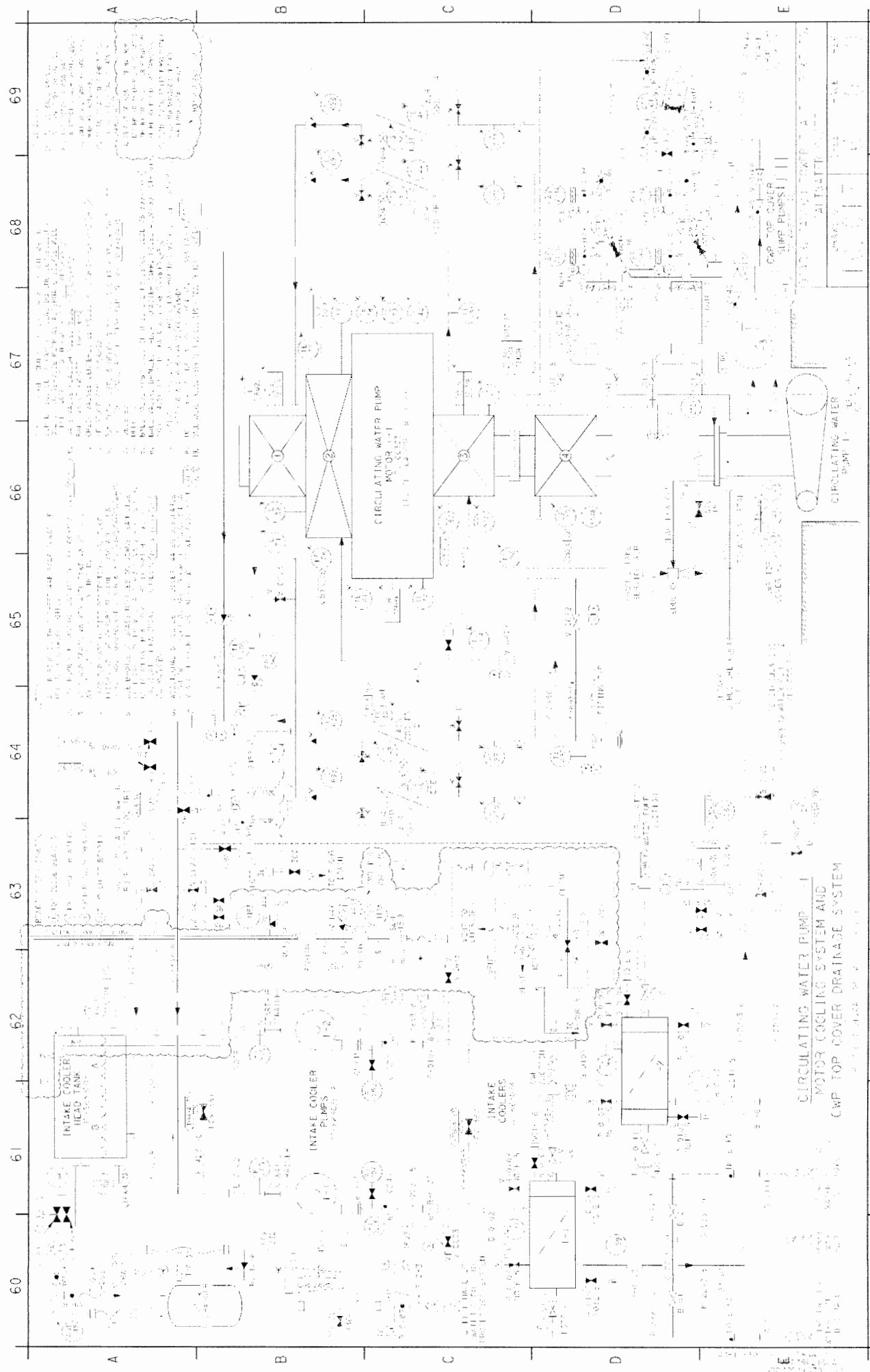
UNIT 1 & 2

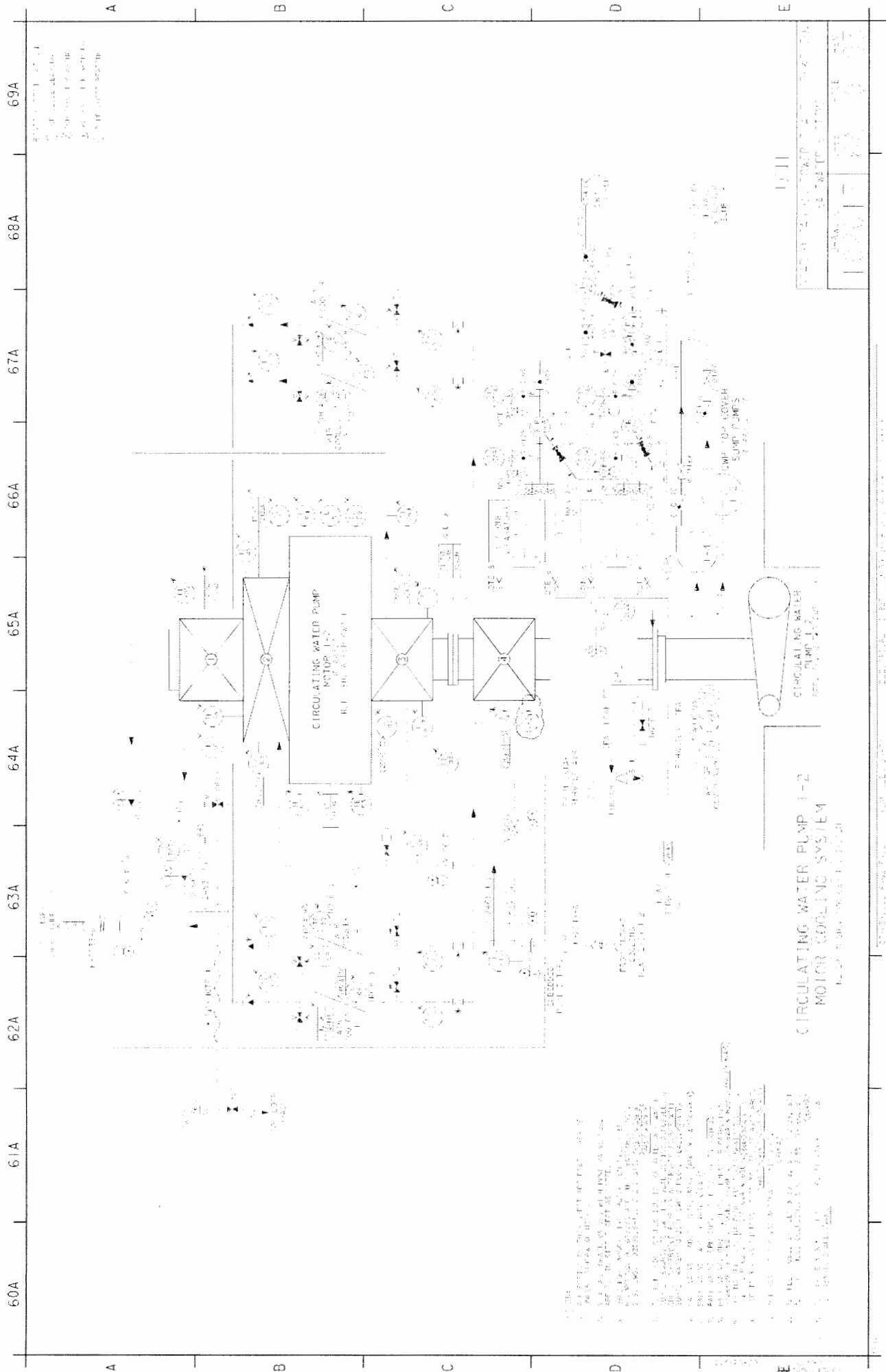
REVISED PER DFT-72905

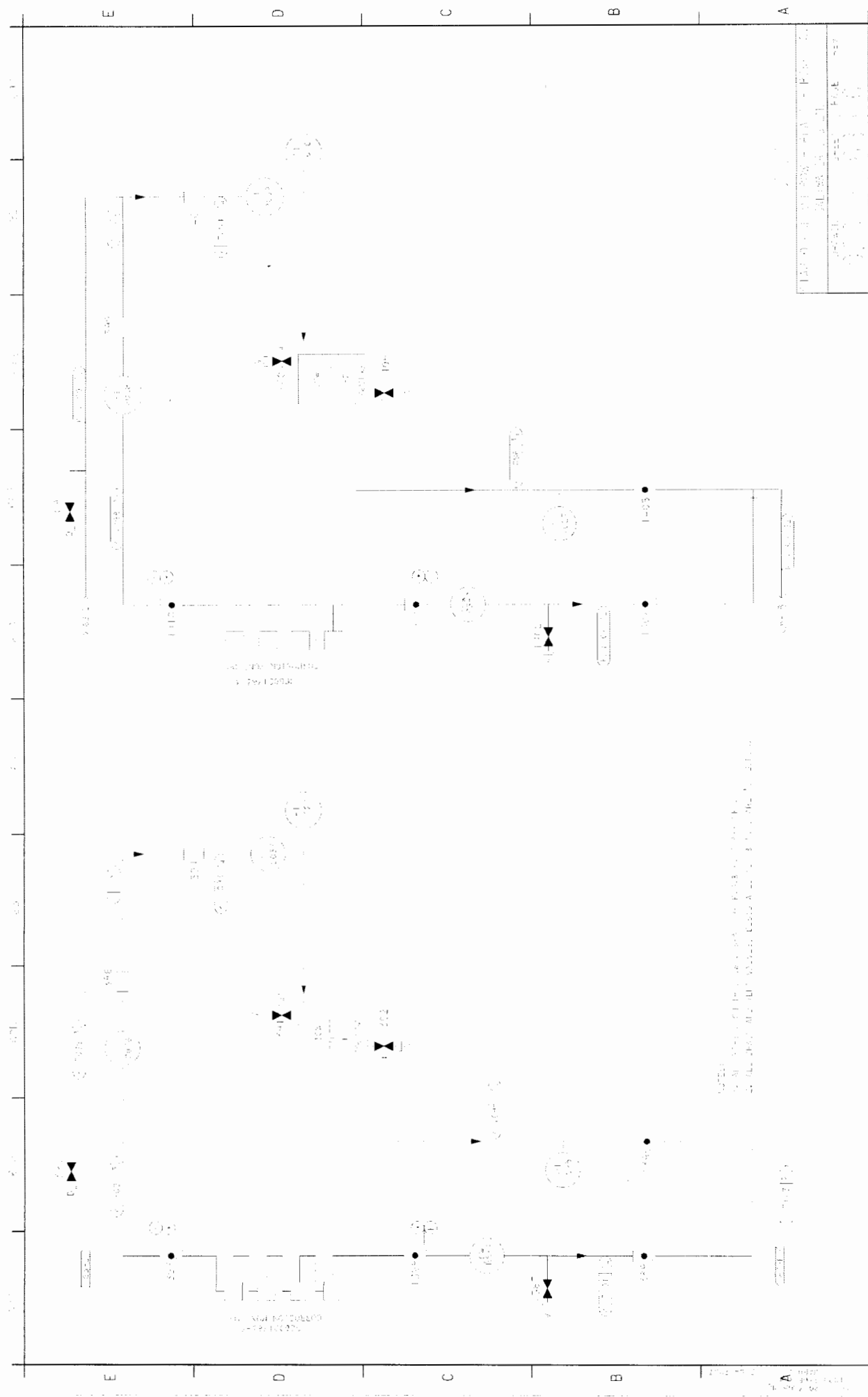
11-25-2014







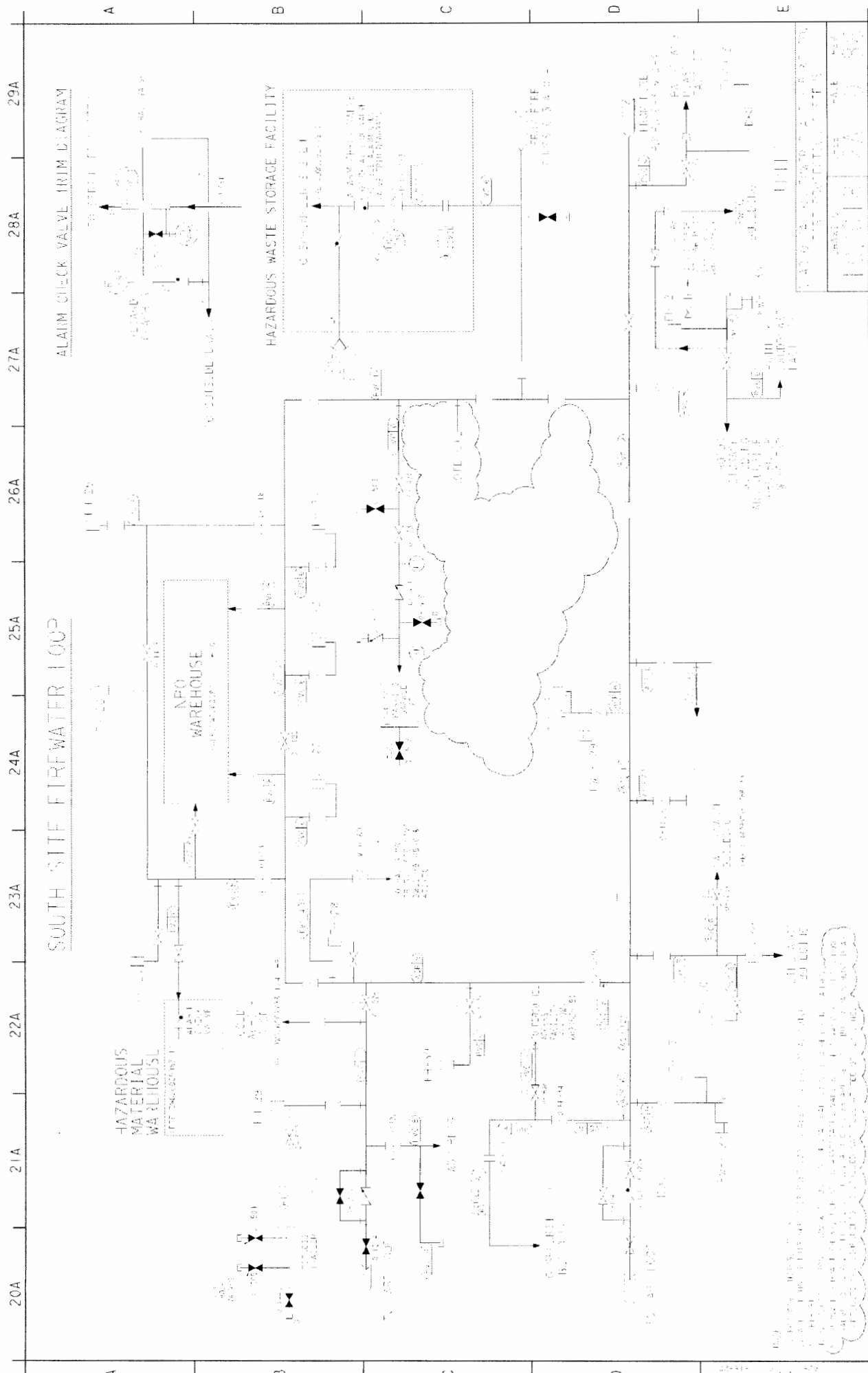




1100-0-1	1100-0-1	1100-0-1	1100-0-1
1100-0-1	1100-0-1	1100-0-1	1100-0-1
1100-0-1	1100-0-1	1100-0-1	1100-0-1
1100-0-1	1100-0-1	1100-0-1	1100-0-1

1100-0-1 1100-0-1 1100-0-1 1100-0-1

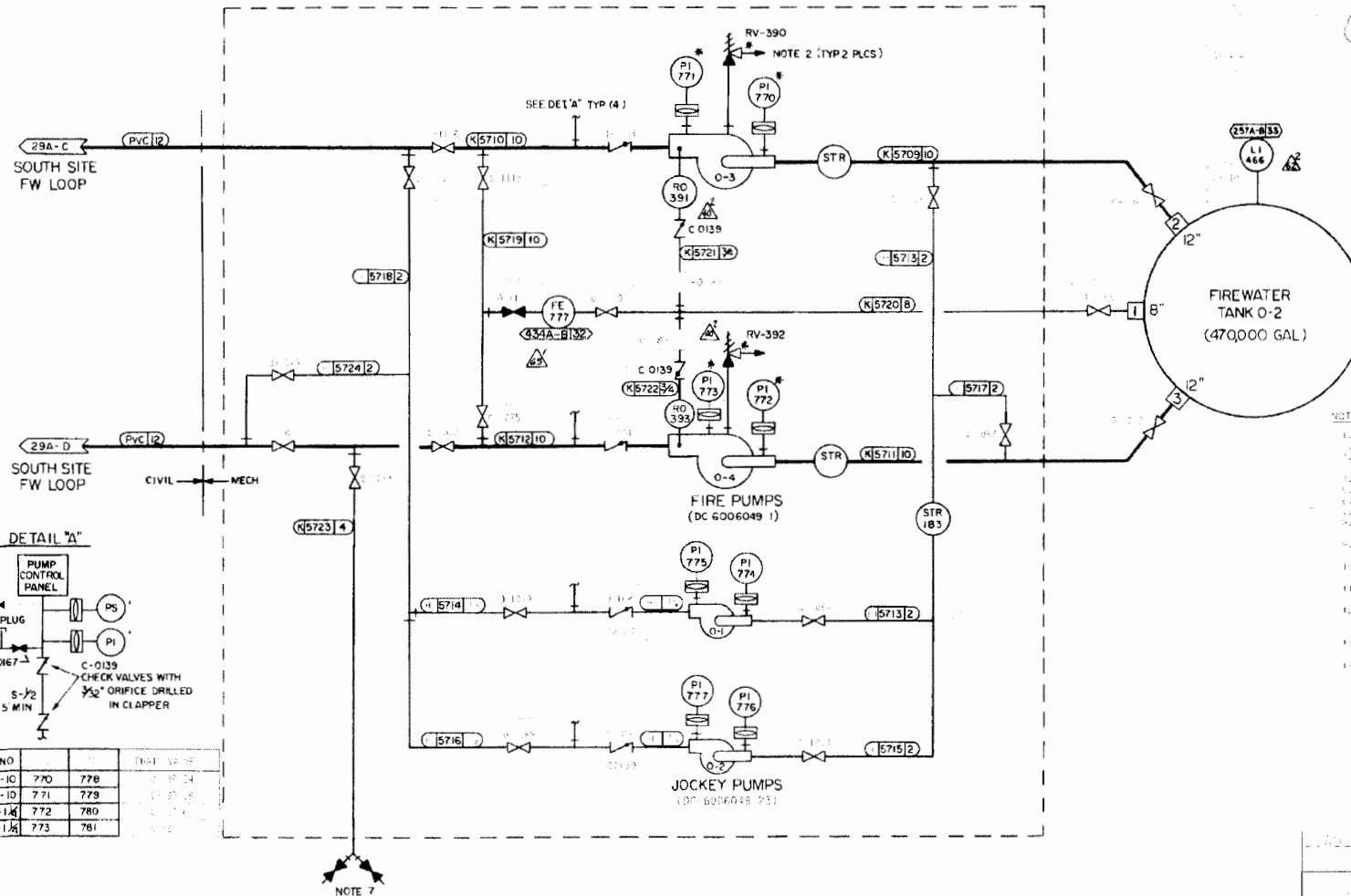
ALARM CLOCK VALVE PRIMING DIAGRAM



20B 21B 22B 23B 24B 25B 26B 27B 28B 29B

REFERENCE DWGS.
1 FIRE FIGHTING SOUTH SITE FIREWATER PUMPS
AND TANK-PATTON FLAT, DWG. 519144

FIRE PUMP HOUSE AT PATTON FLAT

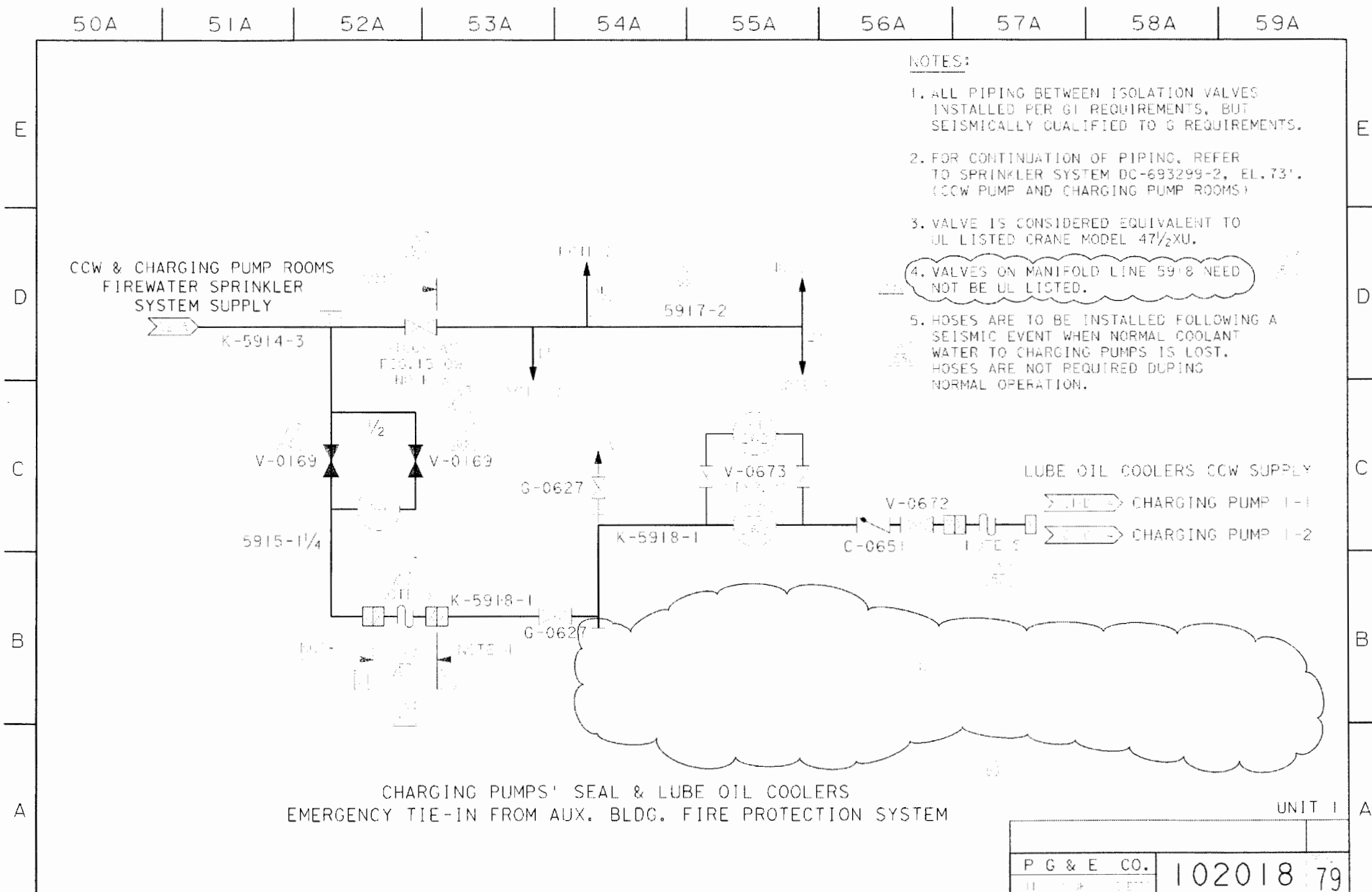


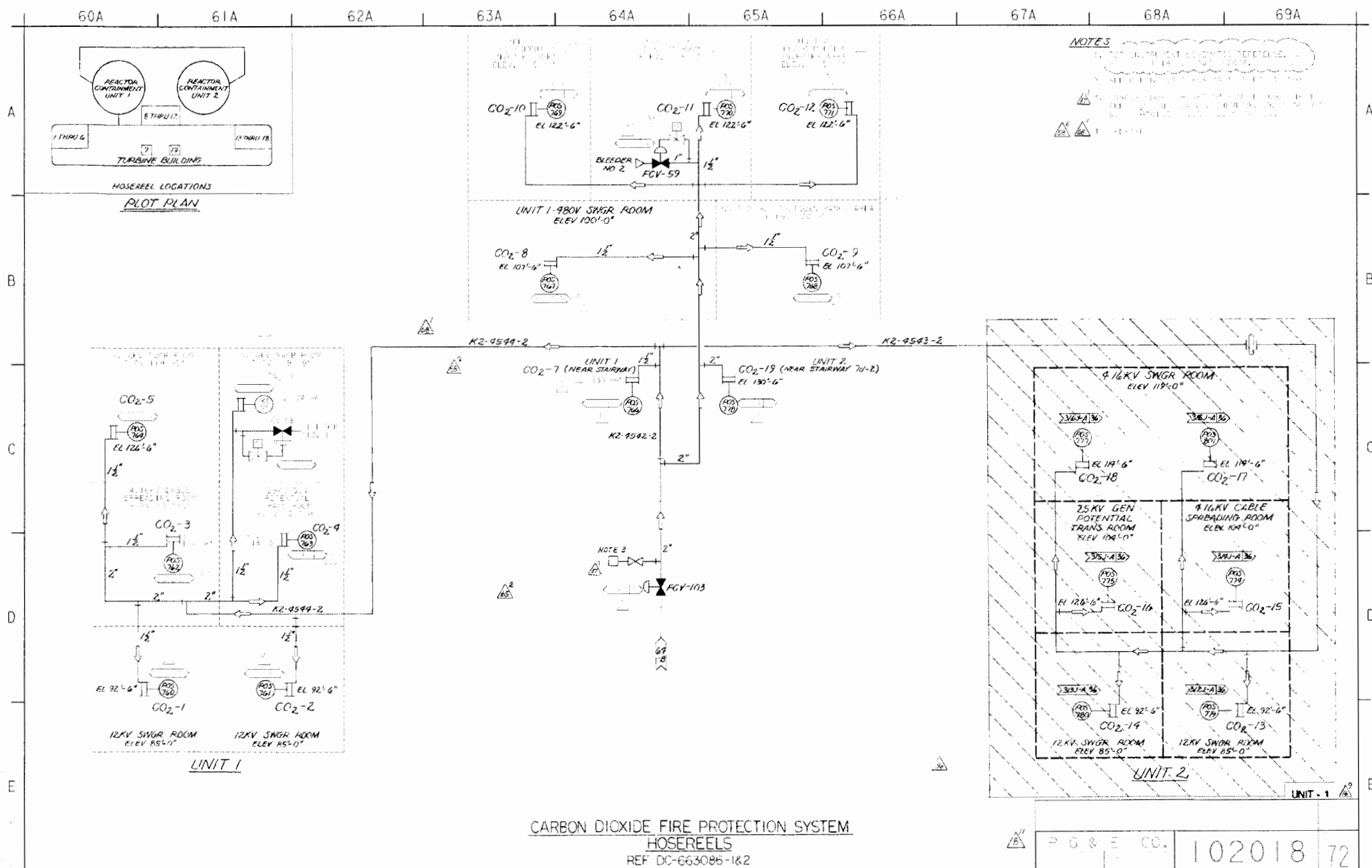
NOTES:

1. ALL PIPING SHALL BE 12" DIA. UNLESS OTHERWISE NOTED.
2. ALL PIPING SHALL BE 8" DIA. UNLESS OTHERWISE NOTED.
3. ALL PIPING SHALL BE 6" DIA. UNLESS OTHERWISE NOTED.
4. ALL PIPING SHALL BE 4" DIA. UNLESS OTHERWISE NOTED.
5. ALL PIPING SHALL BE 3" DIA. UNLESS OTHERWISE NOTED.
6. ALL PIPING SHALL BE 2" DIA. UNLESS OTHERWISE NOTED.
7. ALL PIPING SHALL BE 1" DIA. UNLESS OTHERWISE NOTED.
8. ALL PIPING SHALL BE 1/2" DIA. UNLESS OTHERWISE NOTED.
9. ALL PIPING SHALL BE 1/4" DIA. UNLESS OTHERWISE NOTED.
10. ALL PIPING SHALL BE 1/8" DIA. UNLESS OTHERWISE NOTED.
11. ALL PIPING SHALL BE 1/16" DIA. UNLESS OTHERWISE NOTED.
12. ALL PIPING SHALL BE 1/32" DIA. UNLESS OTHERWISE NOTED.
13. ALL PIPING SHALL BE 1/64" DIA. UNLESS OTHERWISE NOTED.
14. ALL PIPING SHALL BE 1/128" DIA. UNLESS OTHERWISE NOTED.
15. ALL PIPING SHALL BE 1/256" DIA. UNLESS OTHERWISE NOTED.
16. ALL PIPING SHALL BE 1/512" DIA. UNLESS OTHERWISE NOTED.
17. ALL PIPING SHALL BE 1/1024" DIA. UNLESS OTHERWISE NOTED.
18. ALL PIPING SHALL BE 1/2048" DIA. UNLESS OTHERWISE NOTED.
19. ALL PIPING SHALL BE 1/4096" DIA. UNLESS OTHERWISE NOTED.
20. ALL PIPING SHALL BE 1/8192" DIA. UNLESS OTHERWISE NOTED.
21. ALL PIPING SHALL BE 1/16384" DIA. UNLESS OTHERWISE NOTED.
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98. ALL PIPING SHALL BE 1/2475880078570760549798248448" DIA. UNLESS OTHERWISE NOTED.
99. ALL PIPING SHALL BE 1/4951760157141521099596496896" DIA. UNLESS OTHERWISE NOTED.
100. ALL PIPING SHALL BE 1/9903520314283042199192993792" DIA. UNLESS OTHERWISE NOTED.

PUMP DESCH	LINE NO	PI	PI	PI	PI
FP O-3	5710-10	770	778		
FP O-4	5712-10	771	778		
JP O-1	5714-14	772	780		
JP O-2	5716-14	773	781		

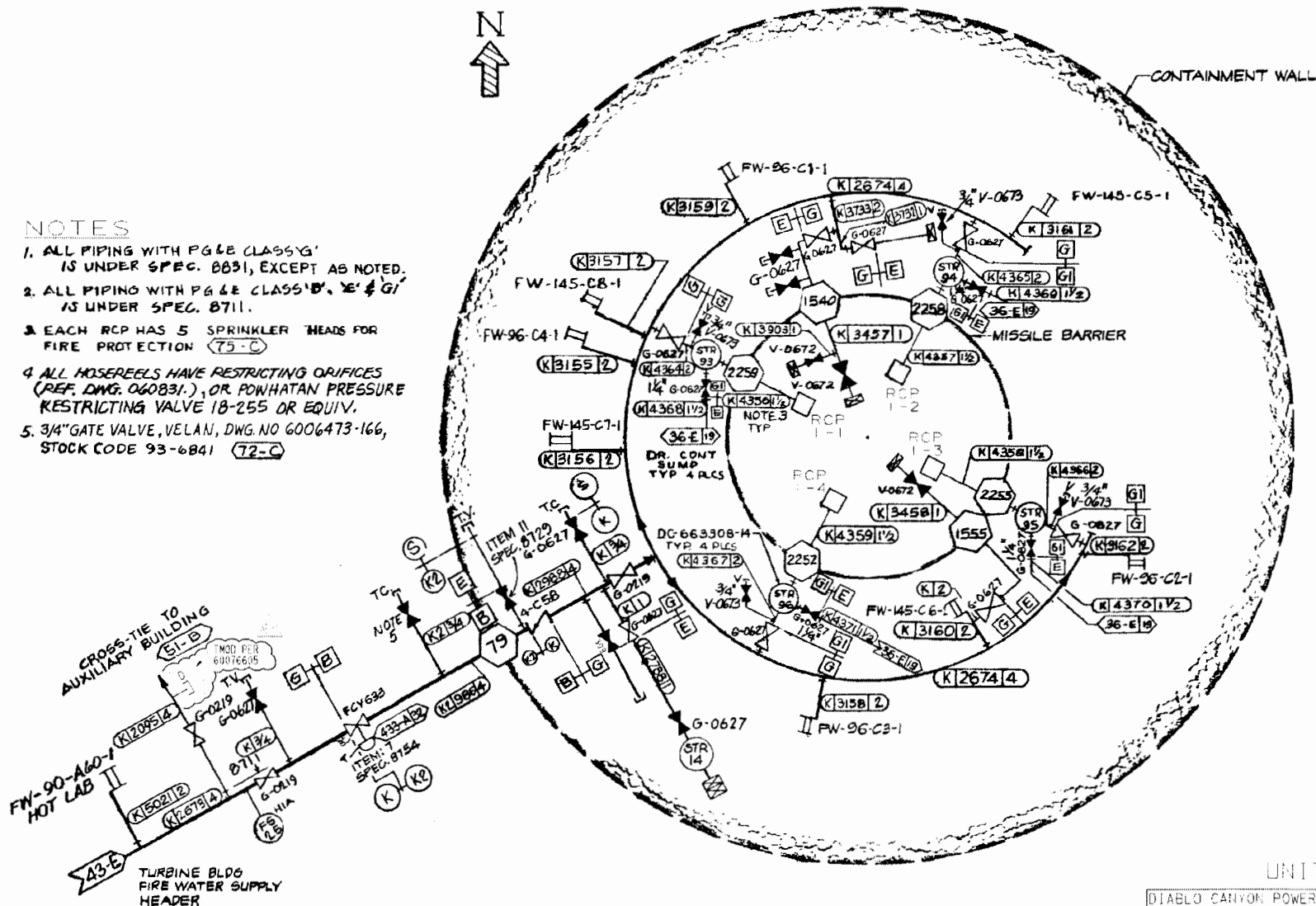
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NOTES: [Blank]





NOTES

1. ALL PIPING WITH PGLB CLASS 'G' IS UNDER SPEC. 8831, EXCEPT AS NOTED.
2. ALL PIPING WITH PGLB CLASS 'B', 'E' & 'G' IS UNDER SPEC. 8711.
3. EACH RCP HAS 5 SPRINKLER HEADS FOR FIRE PROTECTION (75-C)
4. ALL MHSEREELS HAVE RESTRICTING ORIFICES (REF. DWG. 060831), OR POWHATAN PRESSURE RESTRICTING VALVE 18-255 OR EQUIV.
5. 3/4" GATE VALVE, VELAN, DWG. NO 6006473-166, STOCK CODE 93-6841 (72-C)



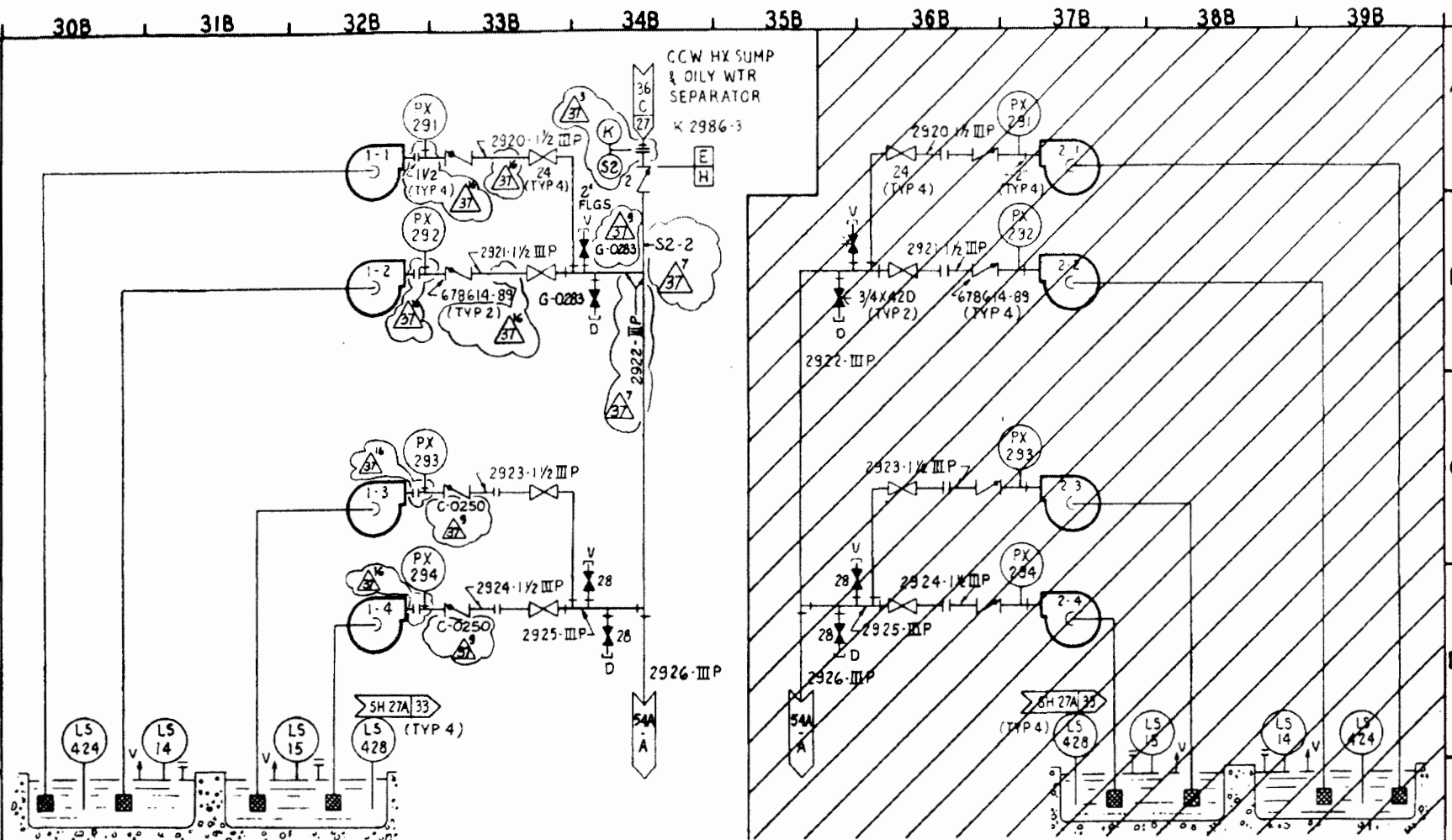
CONTAINMENT STRUCTURE

UNIT 11

DIABLO CANYON POWER PLANT - PG&E CO.
FIRE PROTECTION SYSTEMS

DRAWING	SHEET	PAGE	REV
020 8	7	0	63

RS BY
JZB
608
4



NOTE
1. ALL PIPING S2 SPEC AND 2" EXCEPT AS NOTED.

RESIDUAL HEAT REMOVAL SUMPS & PUMPS

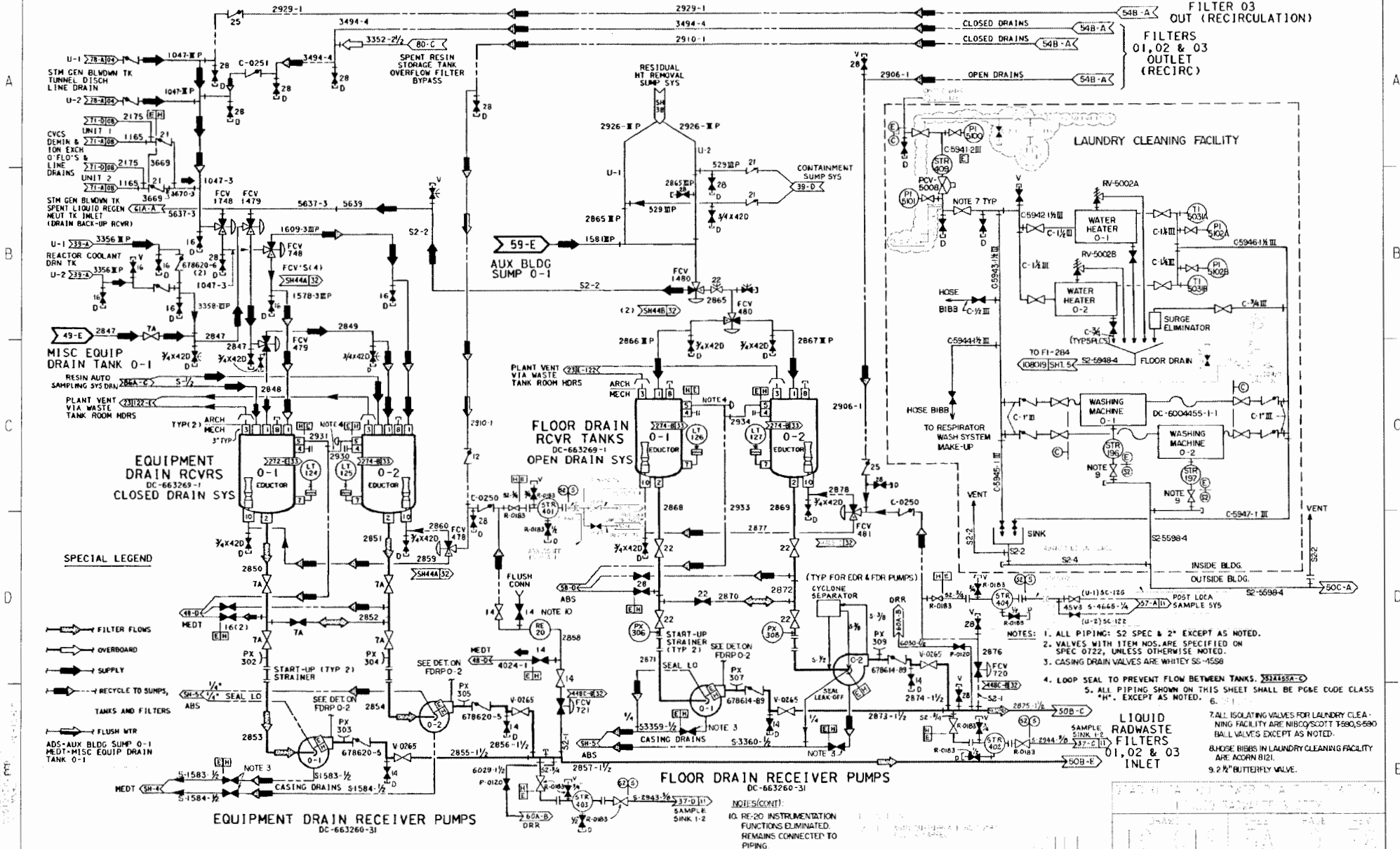
DC-663250-15
COVER PLATE DC-663250-35

RM INDEX REV. 37 UNIT 1

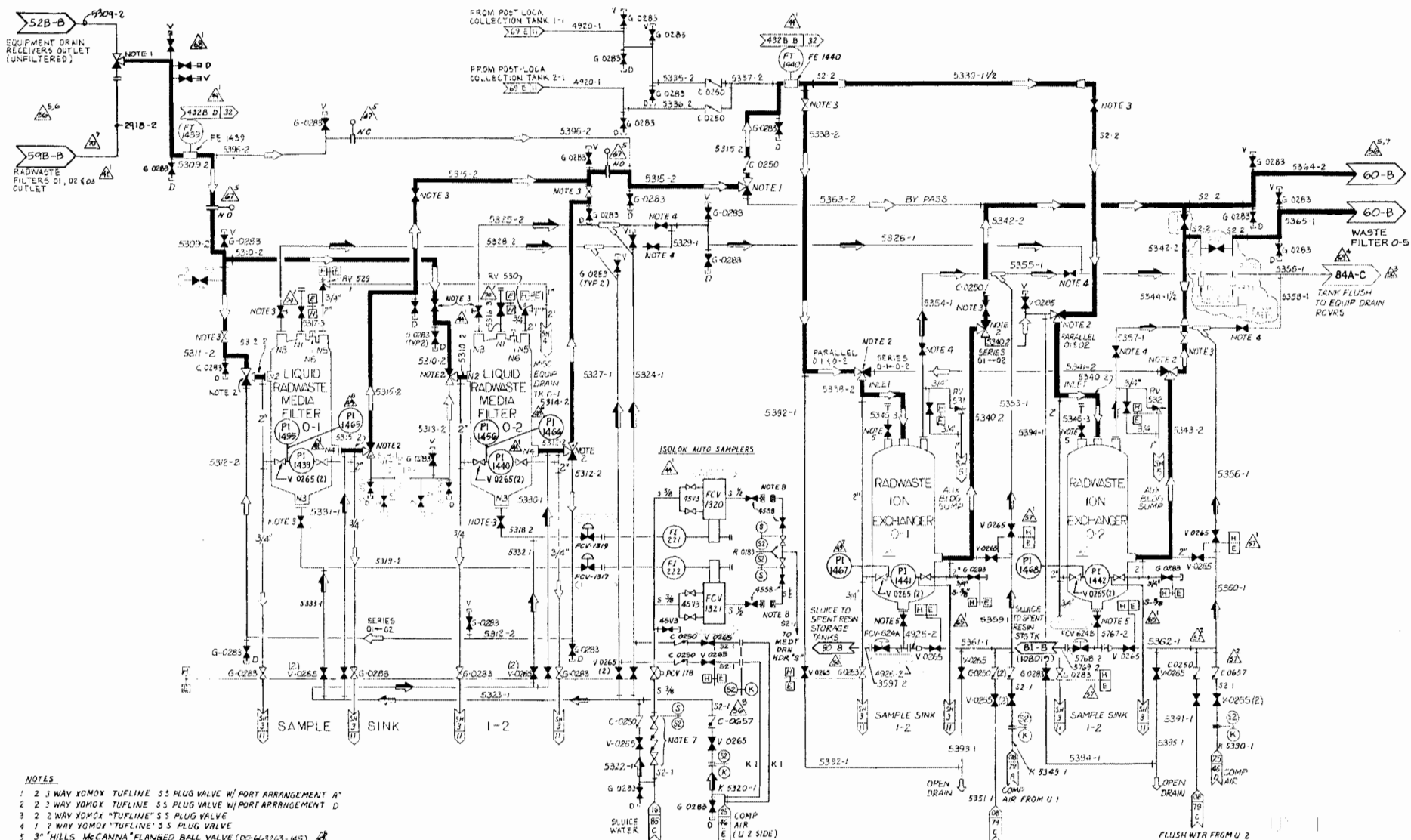
PG & E CO.	102019	REV. 37
SHEET 3B OF SHEETS	MICROFILM	37

SCAN 37 IC

50A 51A 52A 53A 54A 55A 56A 57A 58A 59A



60B 61B 62B 63B 64B 65B 66B 67B 68B 69B



- NOTES**
- 2 3 WAY XOMOX TUFLINE 55 PLUG VALVE W/ PORT ARRANGEMENT A"
 - 2 2 WAY XOMOX TUFLINE 55 PLUG VALVE W/ PORT ARRANGEMENT D
 - 2 2 WAY XOMOX TUFLINE 55 PLUG VALVE
 - 1 2 WAY XOMOX TUFLINE 55 PLUG VALVE
 - 3" HILLS McCANNAN FLANGED BALL VALVE (DC-643263-145)
 - ALL PIPING 32 SPEC. AND P516 CODE CLASS 2, UNLESS OTHERWISE NOTED
 - 1" FERCO REDUCED PRESSURE BACKFLOW PREVENTION DEVICE MODEL B751 WITH THREADED ENDS (DC 648106 25)
 - CONNECTION FOR PORTABLE SAMPLE BOTTLE IN SHIELDED CASK (DC 648106 198 21) (SEE #1 C FOR TYPICAL CONNECTION)

DATE	BY	CHKD	REV
00019	00019	00019	00019

30A

31A

32A

33A

34A

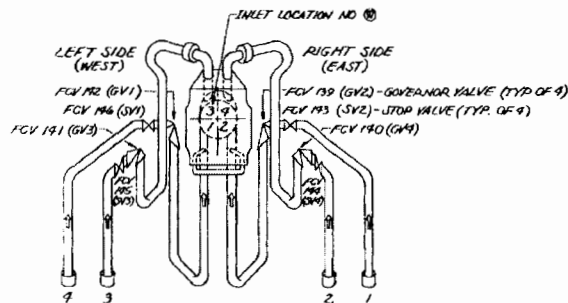
35A

36A

37A

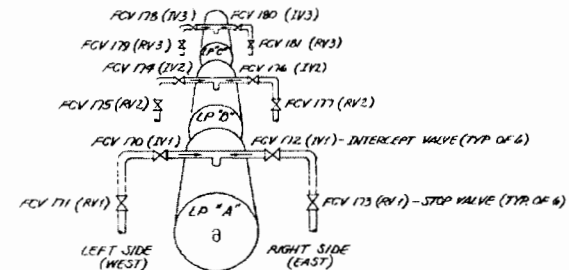
38A

39A



HP TURBINE

LEADS FROM STEAM GENERATOR OUTLETS



L.P. TURBINES

STEAM FROM MOISTURE SEPARATOR-REHEATERS

HP TURBINE INSTRUMENTATION TABLE 2

VALVE LOCATION AS VIEWED FACING HP TURBINE		LEFT				RIGHT			
INSTRUMENT MARK BY:		PG 6 E	PG 6 E	PG 6 E	PG 6 E	PG 6 E	PG 6 E	PG 6 E	PG 6 E
MAIN STEAM LEAD		INLET LOC. NO. 1	CONVER	3	UPPER	4	LOWER	2	
GOVERNOR CONTROL VALVE		FCV-192	GV 1	FCV-191	GV 3	FCV-190	GV 4	FCV-199	GV 2
ASSOCIATED INSTRUMENTS		TEST & INTERLOCK POS-5	33/GCL	POS-4	33/GCL	POS-8	33/GRL	POS-9	33/GRL
POSITION XMITR		POT-17A	LYOT	POT-16	LYOT	POT-18	LYOT	POT-19	LYOT
SERVO ACTUATOR		RO-201	95/GCL	RO-200	95/GCL	RO-202	95/GRL	RO-203	95/GRL
STRAINER		STR-93		STR-35		STR-19		STR-9	
MAIN STOP VALVE		FCV-196	SV 1	FCV-195	SV 3	FCV-194	SV 4	FCV-193	SV 2
ASSOCIATED INSTRUMENTS		TEST & INTERLOCK POS-7	33/GCL	POS-6	33/GRL	POS-10	33/SRL	POS-11	33/SRL
SOLENOID VALVE		SV-94	20/SRL	SV-93	20/SRL	SV-95	20/SRL	SV-96	20/SRL
FIXED RESTRICTING ORIFICE		RO-130		RO-129		RO-128		RO-127	
TRIP PILOT VALVE ACTUATOR AIR SIDE FLOW INDICATOR		FI-403		FI-401		FI-402		FI-400	

NOTE:

1. INSTRUMENT SCHEMATIC COORDINATES FOR POSITION TRANSMITTERS ARE NOT PROVIDED ON THIS SHEET; SEE SHEET 20C OF DWG. 102036
2. REFER TO DWG 102036-20C FOR THE MAIN TURBINE CONTROL SYSTEM (DEH COMPUTER).

HIGH PRESSURE & LOW PRESSURE TURBINES

LP TURBINE VALVE INSTRUMENTATION TABLE 3

LP TURBINE		TURBINE "A"				TURBINE "B"				TURBINE "C"			
VALVE LOCATION AS VIEWED FACING LP TURBINE "A"		LEFT		RIGHT		LEFT		RIGHT		LEFT		RIGHT	
INSTRUMENT MARK BY		PG 6 E	PG 6 E	PG 6 E	PG 6 E	PG 6 E	PG 6 E	PG 6 E	PG 6 E	PG 6 E	PG 6 E	PG 6 E	PG 6 E
INTERCEPT VALVES (6)		FCV-170	IV 1	FCV-172	IV 1	FCV-174	IV 2	FCV-176	IV 2	FCV-178	IV 3	FCV-180	IV 3
ASSOCIATED INSTRUMENTS		TEST & INTERLOCK POS-22	33/IIA	POS-24	33/IIA	POS-26	33/IIA	POS-28	33/IIA	POS-30	33/IIA	POS-32	33/IIA
PRESSURE SWITCH		RO-135		RO-95		RO-131		RO-136		RO-139		RO-138	
FIXED RESTRICTING ORIFICE		RO-141		RO-140		RO-143		RO-142		RO-145		RO-144	
SOLENOID VALVE		SV-59	20/IIA	SV-62	20/IIA	SV-65	20/IIA	SV-68	20/IIA	SV-71	20/IIA	SV-74	20/IIA
REHEAT STOP VALVE		FCV-171	RV 1	FCV-173	RV 1	FCV-175	RV 2	FCV-177	RV 2	FCV-179	RV 3	FCV-181	RV 3
ASSOCIATED INSTRUMENTS		TEST & INTERLOCK POS-21	33/IIA	POS-23	33/IIA	POS-25	33/IIA	POS-27	33/IIA	POS-29	33/IIA	POS-31	33/IIA
PRESSURE SWITCH		RO-116		RO-115		RO-118		RO-117		RO-120		RO-119	
FIXED RESTRICTING ORIFICE		RO-122		RO-121		RO-124		RO-123		RO-126		RO-125	
SOLENOID VALVE		SV-58	20/IIA	SV-61	20/IIA	SV-64	20/IIA	SV-67	20/IIA	SV-70	20/IIA	SV-73	20/IIA

UNIT 1

DIABLO CANYON POWER PLANT - PG&E CO.
LUBE OIL DISTRIBUTION AND PURIFICATION SYSTEMSDRAWING SHEET PAGE REV
102020 3A 0 58

03-17-2014 ZNS4 FXC2 KJD3 NOT REQUIRED PER CF3.1D5

REVISED PER DOT-4* 021

14-11-erul1590.DGN
14-11-erul1590.DGN
14-11-erul1590.DGN
14-11-erul1590.DGN

03-17-2014

A

30B

31B

32B

33B

34B

35B

36B

37B

38B

39B

35-A EJECTOR NOTE 1 6"x3" G-0218 *12 K12 SPOOL 35-A 97 E 96 E 32 MAIN TURBINE LO RESERVOIR INLET FLUSH FILTER NOTE 6 K5965 2 G-0627 K5964 2 BY VENDOR PS 453 TS 442 PS 451 NOTE 4 HCV-1451 NOTE 2 FROM MAIN TURB. LO. RESV. I-1 36 A NOTE 3 V-0673 K5840 12 PI 453 HCV-1449 NOTE 5 NOTE 4 V-0673 K5840 12 D K S s-38 FT 442 V-0673 STR 10"x12" V-0673 PI 447 PI 451 PI 449 PI 449

NOTES:

1. FOR FLUSHING TEMPORARILY REMOVE EJECTOR AND INSTALL SPOOL PIECES. (31B-A)
2. THIS SPOOL PIECE IS REMOVED AND BLANK FLANGED WHEN FLUSHING SYSTEM NOT IN USE. (39B-B)
3. 12" Ø 150# GLOBE VALVE - WALWORTH MODEL 5275F (30B-B)
4. 12" Ø 200# NORRIS BUTTERFLY (31B-C, 39B-C)
5. TECHNOCHECK STYLE 5355, 150# (32B-C)
6. 1-1/2" Ø WHITEY, STEEL BODY, 2160 PSI, TYT BALL VALVE. (33B-B)

UNIT-1

27

PG & E CO.
SHEET 38 OF SHEETS

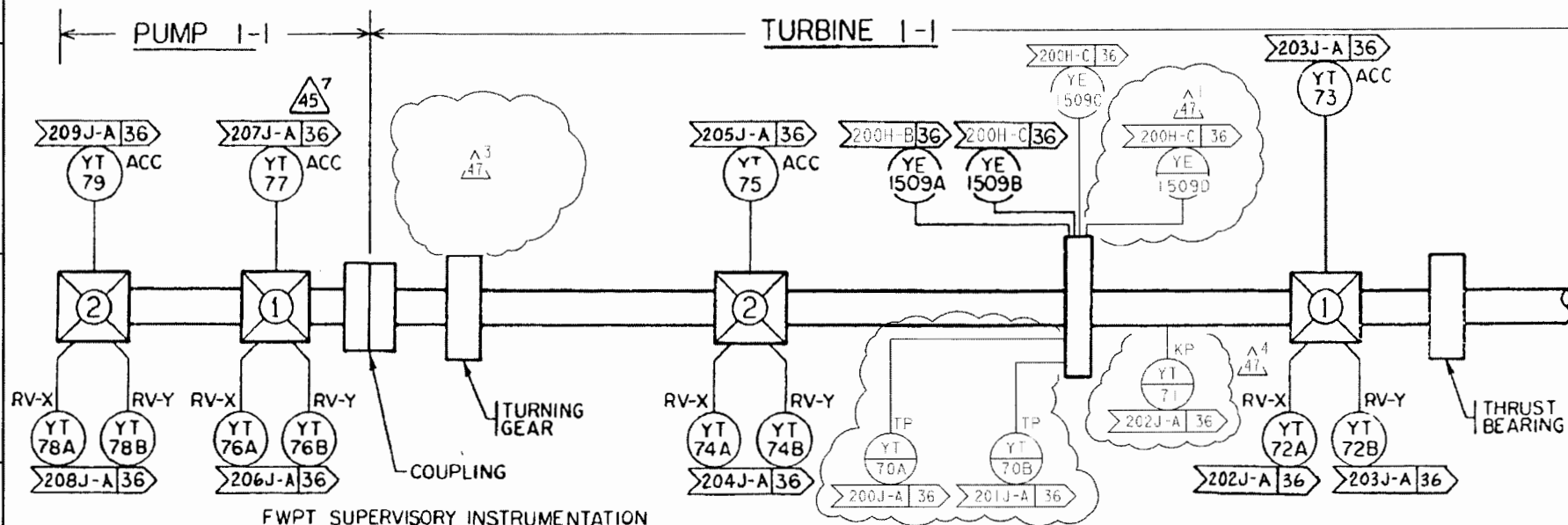
102020
REV. 32

MICROFILM

3.2

60A 61A 62A 63A 64A 65A 66A 67A 68A 69A

MFWPT SUPERVISORY INSTRUMENTATION



FWPT SUPERVISORY INSTRUMENTATION

SERVICE	YT TP	YT RV-X RV-Y	YT RV-X RV-Y	YT RV-X RV-Y	YT RV-X RV-Y	YE PUL SP	YT KP	YT ACC	YT ACC	YT ACC	YT ACC
MFWPT I-1 INST NO	70A 70B	72A 72B	74A 74B	76A 76B	78A 78B	1509A 1509B 1509C 1509D	71	73	75	77	79
MFWPT I-2 INST NO (NOTE 1)	80A 80B	82A 82B	84A 84B	86A 86B	88A 88B	1519A 1519B 1519C 1519D	81	83	85	87	89

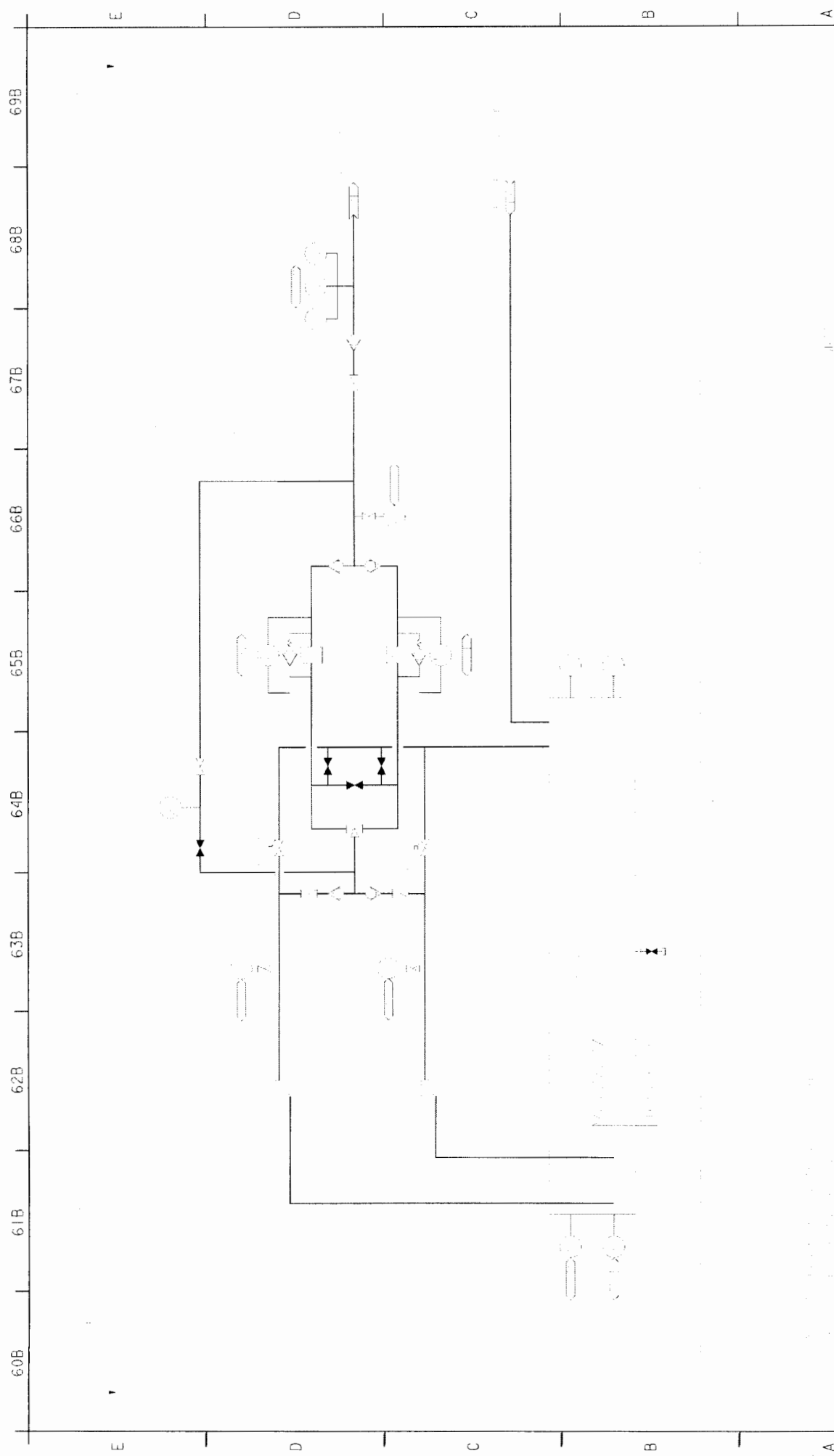
RV-X RELATIVE VIBRATION - X PLANE (BRG)
 RV-Y RELATIVE VIBRATION - Y PLANE (BRG)
 ACC TRIAXIAL ACCELEROMETER (BRG)
 KP KEYPHASOR
 TP THRUST PROXIMETER

UNIT-1

NOTE:

1. INSTRUMENT SCHEMATIC COORDINATES FOR MFWPT I-2 ARE NOT PROVIDED ON THIS SHEET; SEE SHEETS 20C, 20I & 20K OF DWG. 102036

P G & E CO.	102020	47
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102020

PURE CO.

30A

31A

32A

33A

34A

35A

36A

37A

38A

39A

E

D

C

B

A

E

D

C

B

A

COMPRESSOR
1-1B
DISCH

(32-D)

S2-111P
NOTE 5AIR COOLED
AFTERCOOLER
DC-6630B2-124FLOOR
DRAINRV-260
NOTE 6

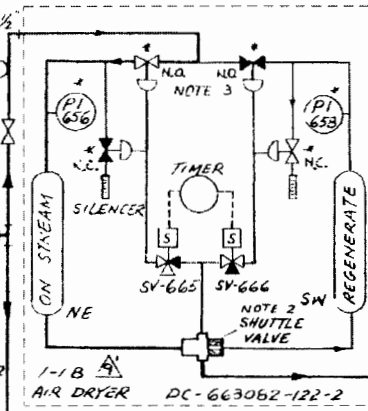
S2-4459(1)

S2-4460(1)

PRE-FILTER
DC-6630B2-120OIL FILTER
DC-6630B2-121SEPARATOR
WITH TRAP
DC-6630B2-125

S2-4461(1)

G-0283



START AIR HOSE CONN

AIR RECEIVER
1-1B

INSTRUMENT SERVICE	INST	AIR DRYER		
		1-1	1-2	1-3
AIR DRYER (NE)	B	PI 656	661	665
	A	SV 665	663	667
	A	SV 667	671	675
AIR DRYER (SW)	B	PI 658	662	666
	A	SV 666	664	668
	A	SV 668	672	676
AIR COMPRESSOR RELIEF VALVE	B	RV 260	270	274
	A	261	271	275

NOTES:

- 1 ALL PIPING ON THIS SHEET SHALL BE PG&E CLASS E
- 2 ORIFICE SLIDER SHOWN IN POSITION CONTROLLING FLOW RATE FOR DRYER REGENERATION (36A-6/D)
- 3 N.O. - AIR TO CLOSE
N.C. - AIR TO OPEN (36A-G/E)
- 4 * DENOTES MANUFACTURER SUPPLIED INSTRUMENTS AND EQUIPMENT. IT IS ACCEPTABLE TO REPLACE MANUFACTURER SUPPLIED INSTRUMENT TUBING W/PG&E SUPPLIED S-SPEC STAINLESS STEEL TUBING.

NOTES: (CONT.)

- 5 FIBERGLASS BLANKET TYPE PERSONNEL PROTECTION INSULATION
- 6 FOR RV-260 THE OUTLET PIPING IS PER PIPE SPEC."K", EXCEPT THREADED

EQUIP	SEPARATOR AIR INLET	PRE-FILTER AIR INLET	OIL-FILTER AIR INLET	AIR DRYER AIR INLET	AIR BYPASS AIR OUTLET
1-1B	(S2-4458(1))	(S2-4459(1))	(S2-4460(1))	(S2-4461(1))	(S2-4462(1))
1-1A	(S2-4464(1))	(S2-4465(1))	(S2-4466(1))	(S2-4467(1))	(S2-4468(1))
1-2B	(S2-4470(1))	(S2-4471(1))	(S2-4472(1))	(S2-4473(1))	(S2-4474(1))
1-2A	(S2-4476(1))	(S2-4477(1))	(S2-4478(1))	(S2-4479(1))	(S2-4480(1))
1-3B	(S2-4482(1))	(S2-4483(1))	(S2-4484(1))	(S2-4485(1))	(S2-4486(1))
1-3A	(S2-4488(1))	(S2-4489(1))	(S2-4490(1))	(S2-4491(1))	(S2-4492(1))

STARTING AIR DRYER SYSTEM
TYPICAL FOR 3 ENGINE GEN. UNITS

UNIT 1

DIABLO CANYON POWER PLANT - PG&E CO.

DRAWING	SHEET	PAGE	REV
102021	3A	0	58

02-28-2006 AJL2 ELG

KEPSI J. DALAL

MECHANICAL M 16690

3/31/2006

REVISED PER FCT-03-020

102021.s3A.dgn
102021.s3A.dgn
AJL2

02-28-2006

15174

40A 41A 42A 43A 44A 45A 46A 47A 48A 49A

E

D

C

B

A

E

D

C

B

A

COMPRESSOR
1-1
DISCH
42-D

52-111P
NOTE 4

AIR COOLED
AFTERCOOLER
DC-663082-124

FLOOR
DRAIN

NOTE 5
RV-294

52-4495 1

52-374

52-4496 1

SEPARATOR
WITH TRAP
DC-663082-125

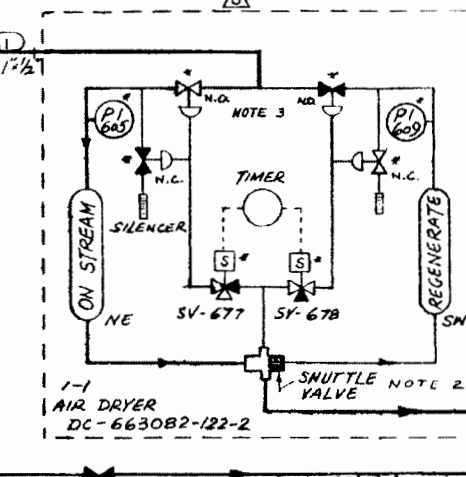
1128

PRE-FILTER
DC-663082-120

OIL FILTER
DC-663082-121

G-0283

52-4497 1



G-0283

START AIR HOSE CONN.

G-0283

52-4498 1

1130

52-4499 1

G-0283

43-D

AIR RECEIVER 1-1

AFTER FILTER
DC-663082-120

1130

52-4499 1

G-0283

43-D

AIR RECEIVER 1-1

INSTRUMENT SERVICE	INST	DRYER			
		1-1	1-2	1-3	
AIR DRYER NE	PI	605	610	613	19
	SV	677	679	683	
AIR DRYER SW	PI	609	611	616	16
	SV	678	681	684	
AIR COMPRESSOR RELIEF VALVES	RV	294	295	296	

EQUIP	SEPARATOR			PRE-FILTER			OIL FILTER			AIR DRYER		
	AIR INLET	AIR INLET	AIR INLET	AIR INLET	AIR INLET	AIR INLET	AIR INLET	AIR INLET	AIR INLET	AIR BYPASS	AIR OUTLET	AIR OUTLET
1-1	52-4494 1	52-4495 1	52-4496 1	52-4497 1	52-4498 1	52-4499 1	52-4500 1	52-4501 1	52-4502 1	52-4503 1	52-4504 1	52-4505 1
1-2	52-4506 1	52-4507 1	52-4508 1	52-4509 1	52-4510 1	52-4511 1	52-4512 1	52-4513 1	52-4514 1	52-4515 1	52-4516 1	52-4517 1
1-3	52-4518 1	52-4519 1	52-4520 1	52-4521 1	52-4522 1	52-4523 1	52-4524 1	52-4525 1	52-4526 1	52-4527 1	52-4528 1	52-4529 1

NOTES

- ALL PIPING ON THIS SHEET SHALL BE PG&E CLASS E
- DRICED SLIDER SHOWN IN POSITION CONTROLLING FLOW RATE FOR DRYER REGENERATION
- NO - AIR TO CLOSE
NG - AIR TO OPEN
- FIBERGLASS BLANKET TYPE PERSONNEL PROTECTION INSULATION

- FOR RV-296 THE OUTLET PIPING IS PER PIPE SPEC "K", EXCEPT THREADED.
- * DENOTES MANUFACTURER SUPPLIED INSTRUMENTS AND EQUIPMENT. IT IS ACCEPTABLE TO REPLACE MANUFACTURER SUPPLIED INSTRUMENT TUBING WITH PG&E SUPPLIED 5-SPEC STAINLESS STEEL TUBING

UNIT 1

DIAULO CANYON POWER PLANT - PG&E CO.

DRAWING	SHEET	PAGE	REV
102021	4A	0	58

02-28-2006	AJL2 ELG	KERSJ J. DALAL	MECHANICAL	M 16690	3/3/2006	REVISED PER FCT-03-020
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102021-4A.dgn
102021-4A.dgn
AJL2
02-28-2006

60A

61A

62A

63A

64A

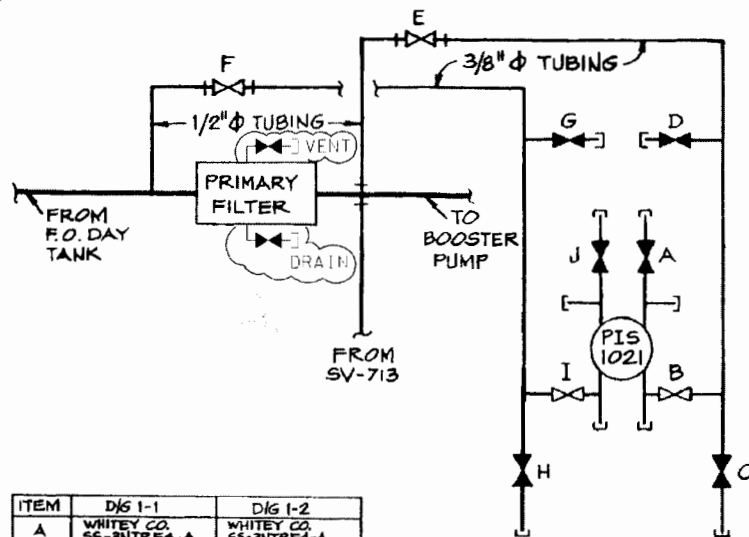
65A

66A

67A

68A

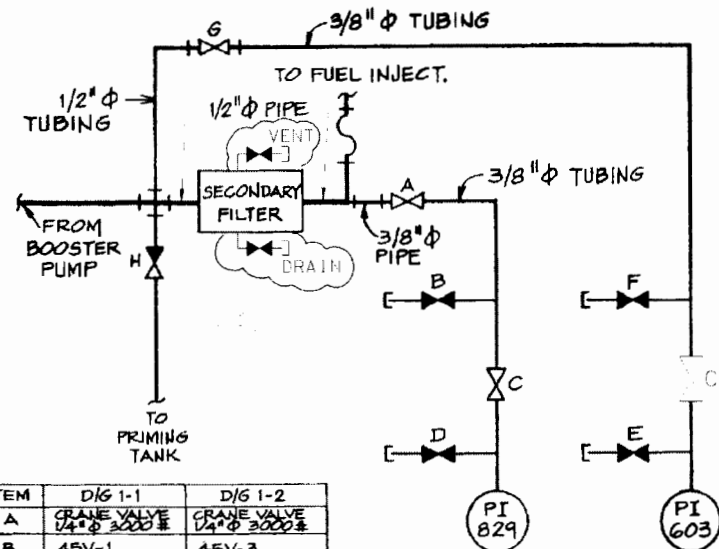
69A



ITEM	D/G 1-1	D/G 1-2
A	WHITEY CO. SS-3NTRF4-A	WHITEY CO. SS-3NTRF4-A
B	45V-3	45V-3
C	45V-1	45V-3
D	45V-3	45V-1
E	CRANE VALVE 1/4" Ø 3000#	CRANE VALVE 1/4" Ø 3000#
F	CRANE VALVE 1/4" Ø 3000#	CRANE VALVE 1/4" Ø 3000#
G	45V-3	45V-1
H	45V-1	45V-3
I	45V-3	45V-3
J	WHITEY CO. SS-3NTRF4-A	WHITEY CO. SS-3NTRF4-A
	PI-1021	PI-1022

UNIT 1 DEG FUEL OIL FILTER CONFIGURATION

	EAST PRIMARY FILTER VENT	EAST PRIMARY FILTER DRAIN
DEG 1-1	VALVE (DEG-1-354) & PLUG	VALVE (DEG-1-358) & PLUG
DEG 1-2	VALVE (DEG-1-362) & BLEEDER	VALVE (DEG-1-366) & BLEEDER
DEG 1-3	VALVE (DEG-1-370) & PLUG	VALVE (DEG-1-374) & PLUG
	WEST PRIMARY FILTER VENT	WEST PRIMARY FILTER DRAIN
DEG 1-1	VALVE (DEG-1-355) & PLUG	VALVE (DEG-1-359) & PLUG
DEG 1-2	VALVE (DEG-1-363) & BLEEDER	VALVE (DEG-1-367) & BLEEDER
DEG 1-3	VALVE (DEG-1-371) & PLUG	VALVE (DEG-1-375) & PLUG



ITEM	D/G 1-1	D/G 1-2
A	CRANE VALVE 1/4" Ø 3000#	CRANE VALVE 1/4" Ø 3000#
B	45V-1	45V-3
C	45V-3	45V-3
D	45V-3	45V-3
E	45V-3	45V-3
F	45V-1	45V-3
G	CRANE VALVE 1/4" Ø 3000#	CRANE VALVE 1/4" Ø 3000#
H	45V-1	45V-1
	PI-829	PI-831
	PI-603	PI-625

UNIT 1 DEG FUEL OIL FILTER CONFIGURATION

	EAST SECONDARY FILTER VENT	EAST SECONDARY FILTER DRAIN
DEG 1-1	VALVE (DEG-1-356) & PLUG	VALVE (DEG-1-360) & PLUG
DEG 1-2	VALVE (DEG-1-364) & BLEEDER	VALVE (DEG-1-368) & PLUG
DEG 1-3	VALVE (DEG-1-372) & PLUG	VALVE (DEG-1-376) & PLUG
	WEST SECONDARY FILTER VENT	WEST SECONDARY FILTER DRAIN
DEG 1-1	VALVE (DEG-1-357) & PLUG	VALVE (DEG-1-361) & PLUG
DEG 1-2	VALVE (DEG-1-365) & BLEEDER	VALVE (DEG-1-369) & PLUG
DEG 1-3	VALVE (DEG-1-373) & PLUG	VALVE (DEG-1-377) & PLUG

DIABLO CANYON POWER PLANT - PG&E CO.
DIESEL ENGINE-GENERATOR ASSOCIATED SYSTEMS

DRAWING 102021 SHEET 6A PAGE 0 REV 43

02-01-2012 INRU EXC2 KERST J. DALAL MECHANICAL 1116690 3/31/2012 REVISED PER DFT-7*1417-0

102021S6A.DGN
102021S6A.DGN
02-01-2012
INRU

70B 71B 72B 73B 74B 75B 76B 77B 78B 79B

A

B

C

D

E

A

B

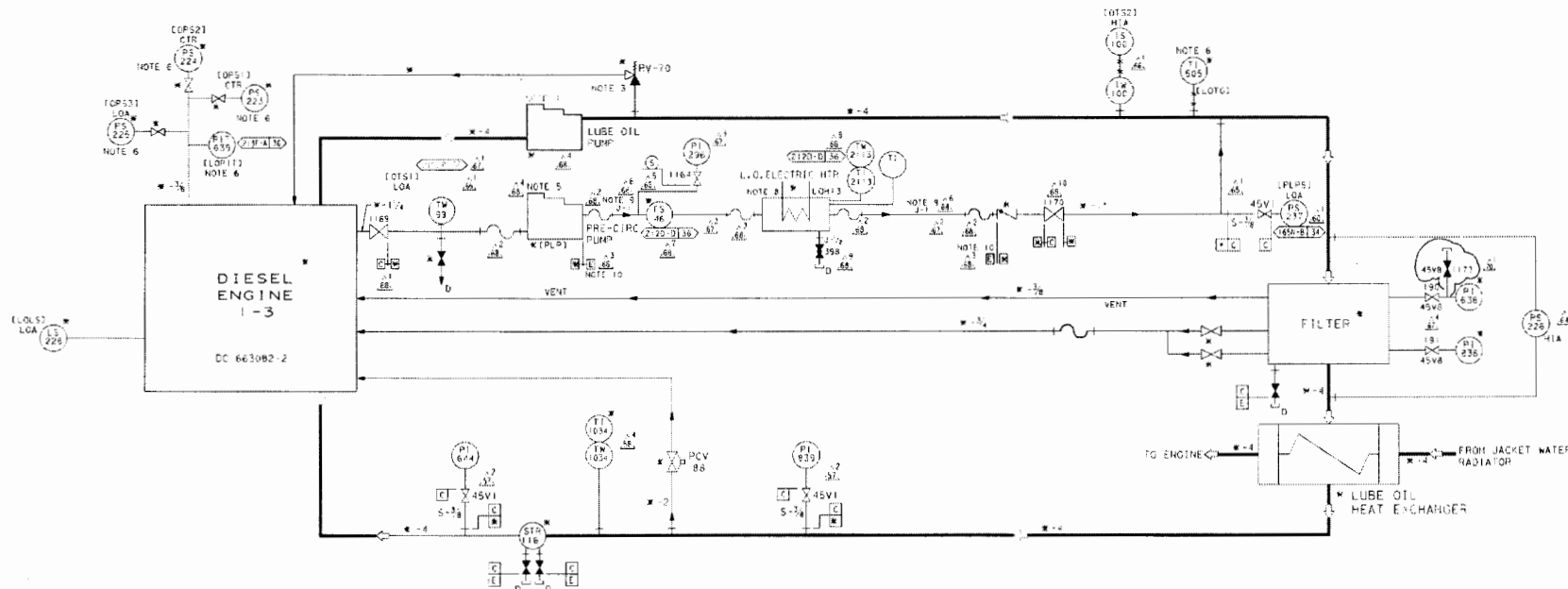
C

D

E

NOTES:

1. THIS SYSTEM PROVIDED COMPLETELY INSTALLED WITH ENGINE GENERATOR UNIT
2. () MANUFACTURER NUMBER
3. RELIEF VALVE BUILT-IN TO PUMP (74B)
4. ENGINE DRIVEN LUBE OIL PUMP (74B)
5. PRE-CIRC. L.O. PUMP IS ELECTRIC MOTOR DRIVEN (77B)
6. MOUNTED ON ENGINE CONTROL PANEL (77B)
7. () DENOTES MANUFACTURER SUPPLIED INSTRUMENTS AND EQUIPMENT. IT IS ACCEPTABLE TO REPLACE MANUFACTURER SUPPLIED INSTRUMENT TUBING WITH PIPE SUPPLIED S-SPEC STAINLESS STEEL TUBING.
8. LUBE OIL HEATER (LOH) IS REPLACED WITH A NEW HEATER, (LOH) (WALWORTH PART NO. 7-10-567-1) AND INSTALLED OUTSIDE THE DIESEL ENGINE SKID.
9. () EPIC PIPING PROVIDED WITH "THREAD CORRECTIONS AND PIPE FITTINGS PER MFR P-666".
10. PIPING ON CLASS "S" SEISMICALLY ANALYZED.



LUBE OIL SYSTEM 1-3
REFERENCE MFR DWG DC 663082-16

UNIT 1

DIABLO CANYON POWER PLANT - PG&E CO.			
DIESEL ENGINE-GENERATOR ASSOCIATED SYSTEMS			
DRAWING	SHEET	PAGE	REV
102021	7B	0	70

1. 102021s7b.dgn
 2. 102021s7b.dgn
 3. 102021s7b.dgn
 4. 102021s7b.dgn
 5. 102021s7b.dgn
 6. 102021s7b.dgn
 7. 102021s7b.dgn
 8. 102021s7b.dgn
 9. 102021s7b.dgn
 10. 102021s7b.dgn
 11. 102021s7b.dgn
 12. 102021s7b.dgn
 13. 102021s7b.dgn
 14. 102021s7b.dgn
 15. 102021s7b.dgn
 16. 102021s7b.dgn
 17. 102021s7b.dgn
 18. 102021s7b.dgn
 19. 102021s7b.dgn
 20. 102021s7b.dgn
 21. 102021s7b.dgn
 22. 102021s7b.dgn
 23. 102021s7b.dgn
 24. 102021s7b.dgn
 25. 102021s7b.dgn
 26. 102021s7b.dgn
 27. 102021s7b.dgn
 28. 102021s7b.dgn
 29. 102021s7b.dgn
 30. 102021s7b.dgn
 31. 102021s7b.dgn
 32. 102021s7b.dgn
 33. 102021s7b.dgn
 34. 102021s7b.dgn
 35. 102021s7b.dgn
 36. 102021s7b.dgn
 37. 102021s7b.dgn
 38. 102021s7b.dgn
 39. 102021s7b.dgn
 40. 102021s7b.dgn
 41. 102021s7b.dgn
 42. 102021s7b.dgn
 43. 102021s7b.dgn
 44. 102021s7b.dgn
 45. 102021s7b.dgn
 46. 102021s7b.dgn
 47. 102021s7b.dgn
 48. 102021s7b.dgn
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 87. 102021s7b.dgn
 88. 102021s7b.dgn
 89. 102021s7b.dgn
 90. 102021s7b.dgn
 91. 102021s7b.dgn
 92. 102021s7b.dgn
 93. 102021s7b.dgn
 94. 102021s7b.dgn
 95. 102021s7b.dgn
 96. 102021s7b.dgn
 97. 102021s7b.dgn
 98. 102021s7b.dgn
 99. 102021s7b.dgn
 100. 102021s7b.dgn

03-23-2010	JBMX	FXC2	KERSI J. DALAL	MECHANICAL	M 16690	3/3/2012	REVISED PER DAS-G*297
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50A 51A 52A 53A 54A 55A 56A 57A 58A 59A

E

D

C

B

A

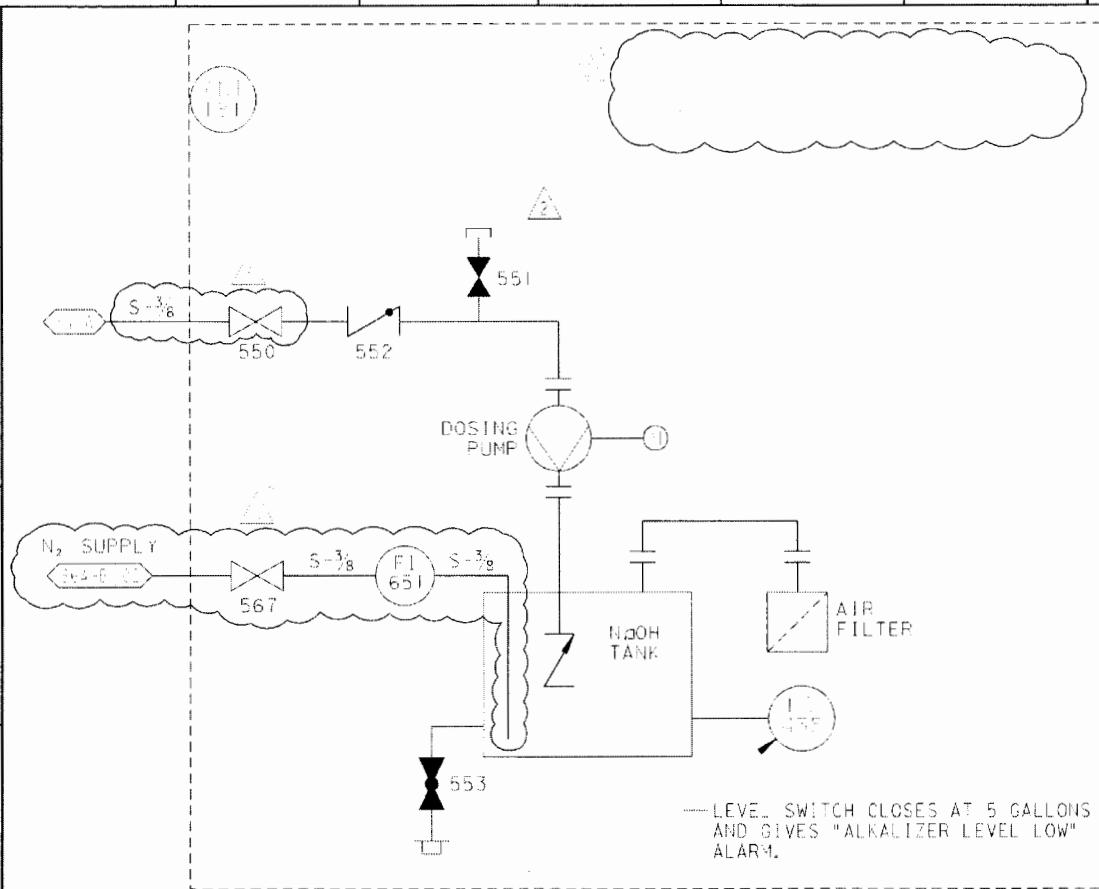
E

D

C

B

A



BOUNDARY OF
ALKALYZER
SKID

LEVEL SWITCH CLOSSES AT 5 GALLONS
AND GIVES "ALKALIZER LEVEL LOW"
ALARM.

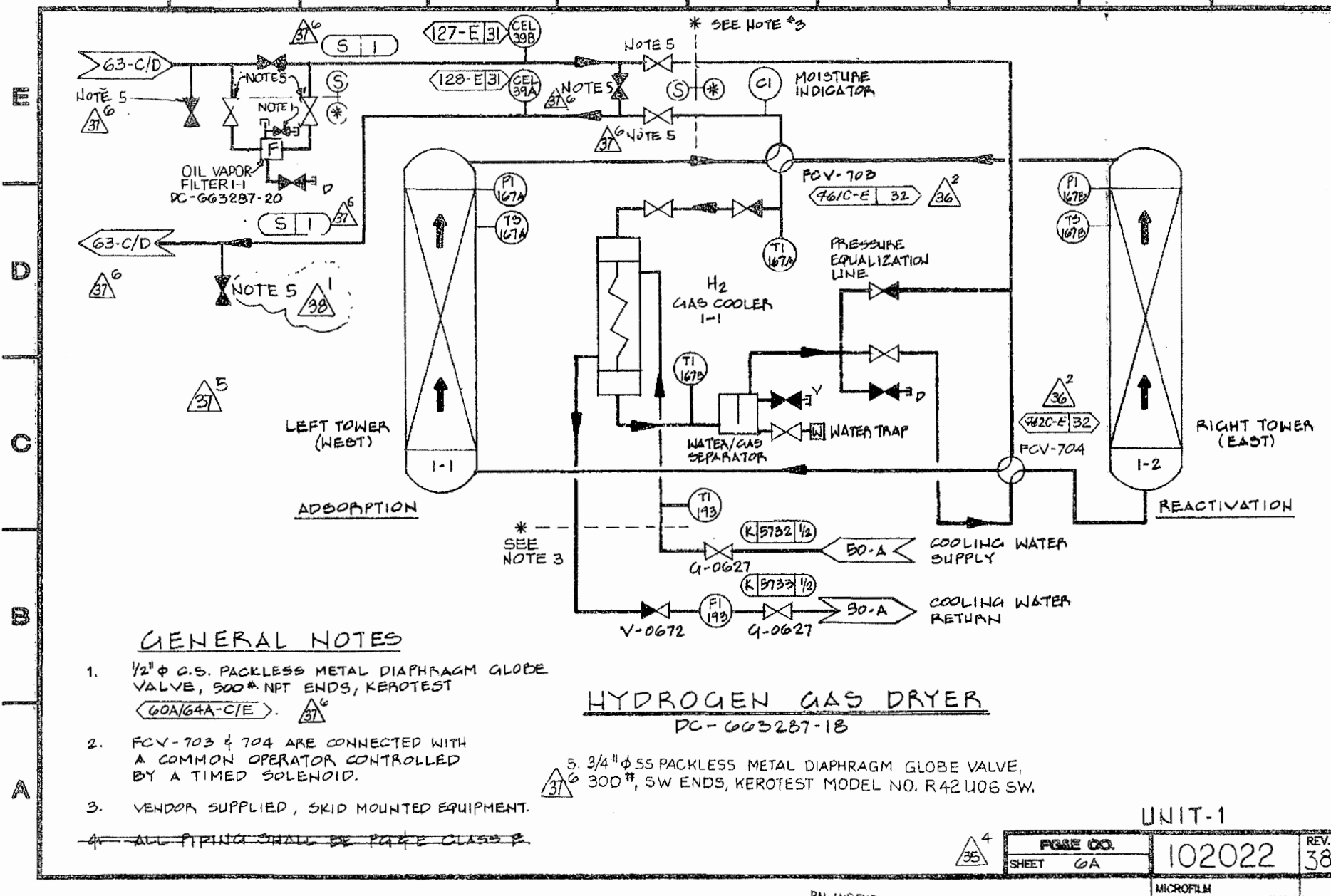
UNIT 1

DIABLO CANYON POWER PLANT - PG&E CO. TURBINE AND GENERATOR ASSOCIATED SYSTEMS			
DRAWING	SHEET	PAGE	REV
102022	5A	0	3

102022.s5A.dgn
 102022.s5A.dgn
 05-31-2007
 RXC2

05-31-2007	Rxc2	Fxc2	KERSI J. DALAL	MECHANICAL	M 16690	3/31/2008	REVISED PER DCI-SJ-0498/4-00
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60A 61A 62A 63A 64A 65A 66A 67A 68A 69A



50

51

52

53

54

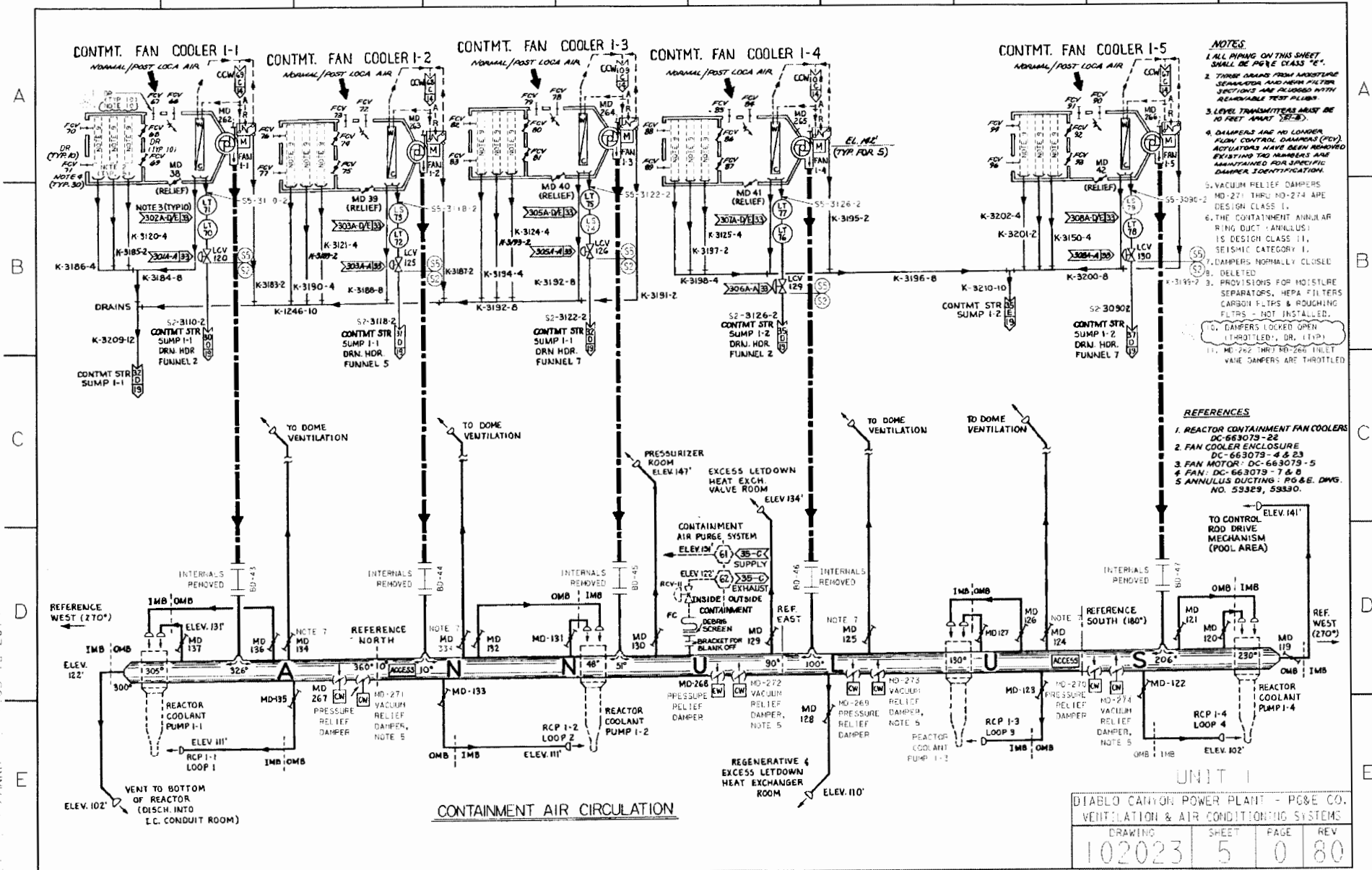
55

56

57

58

59



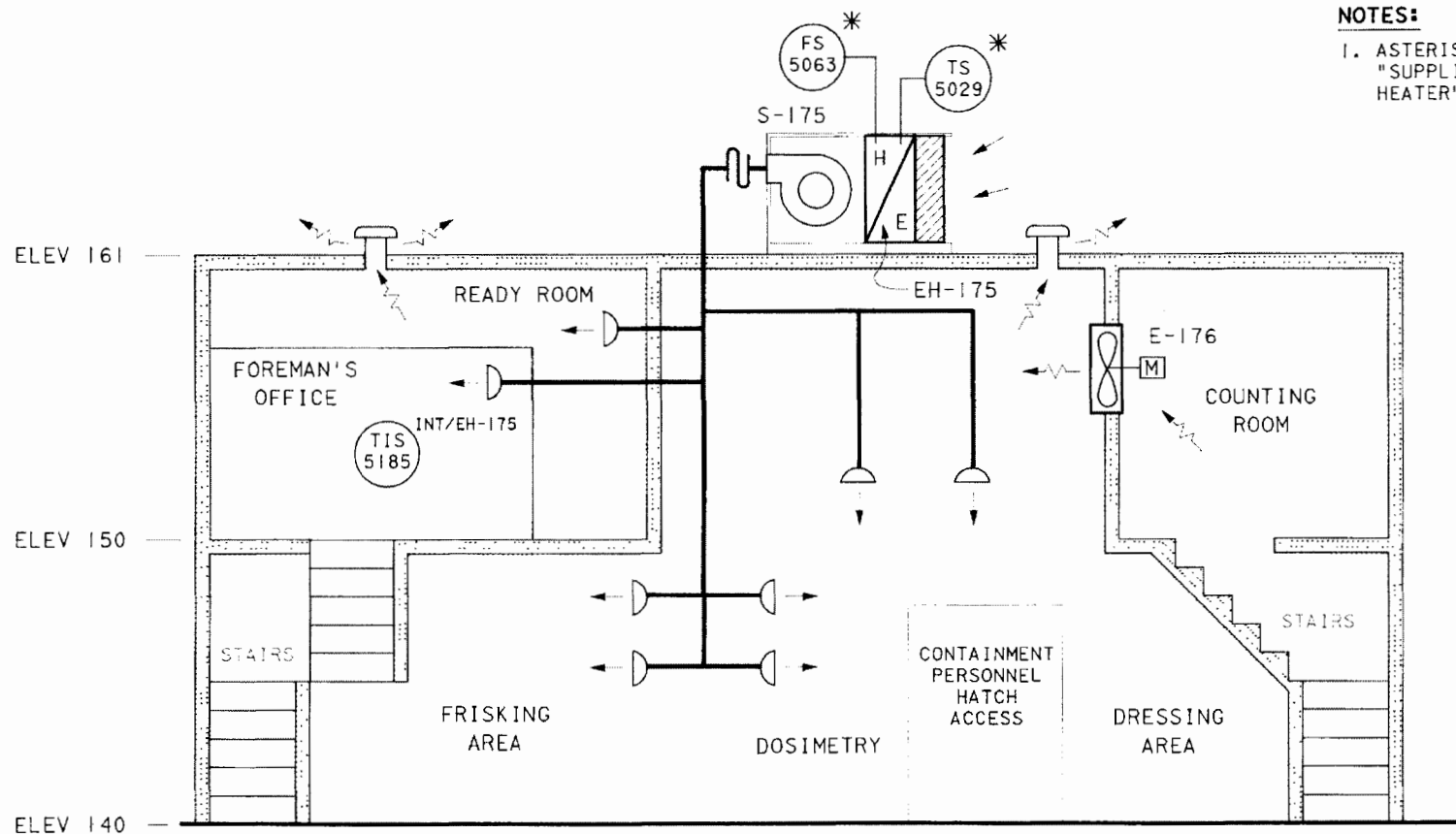
1. 1. 002e1279.DGN
1. 1. 002e1279.DGN
1. 1. 002e1279.DGN

03-13-2014 MNRU:FXC2 FAZI NOT REQUIRED PER CF3.105 REVISED PER DON-2-1229

60A | 61A | 62A | 63A | 64A | 65A | 66A | 67A | 68A | 69A

NOTES:

1. ASTERISK (*) INDICATES
"SUPPLIED WITH ELECTRIC
HEATER".



**OUTAGE ACCESS CONTROL FACILITY
HEATING & VENTILATION
(ELEVATION LOOKING EAST)
(AREA GW)**

UNIT 1

202356A.M01 08-16-90 08:47 VNM

HP: SCSH2.FMT

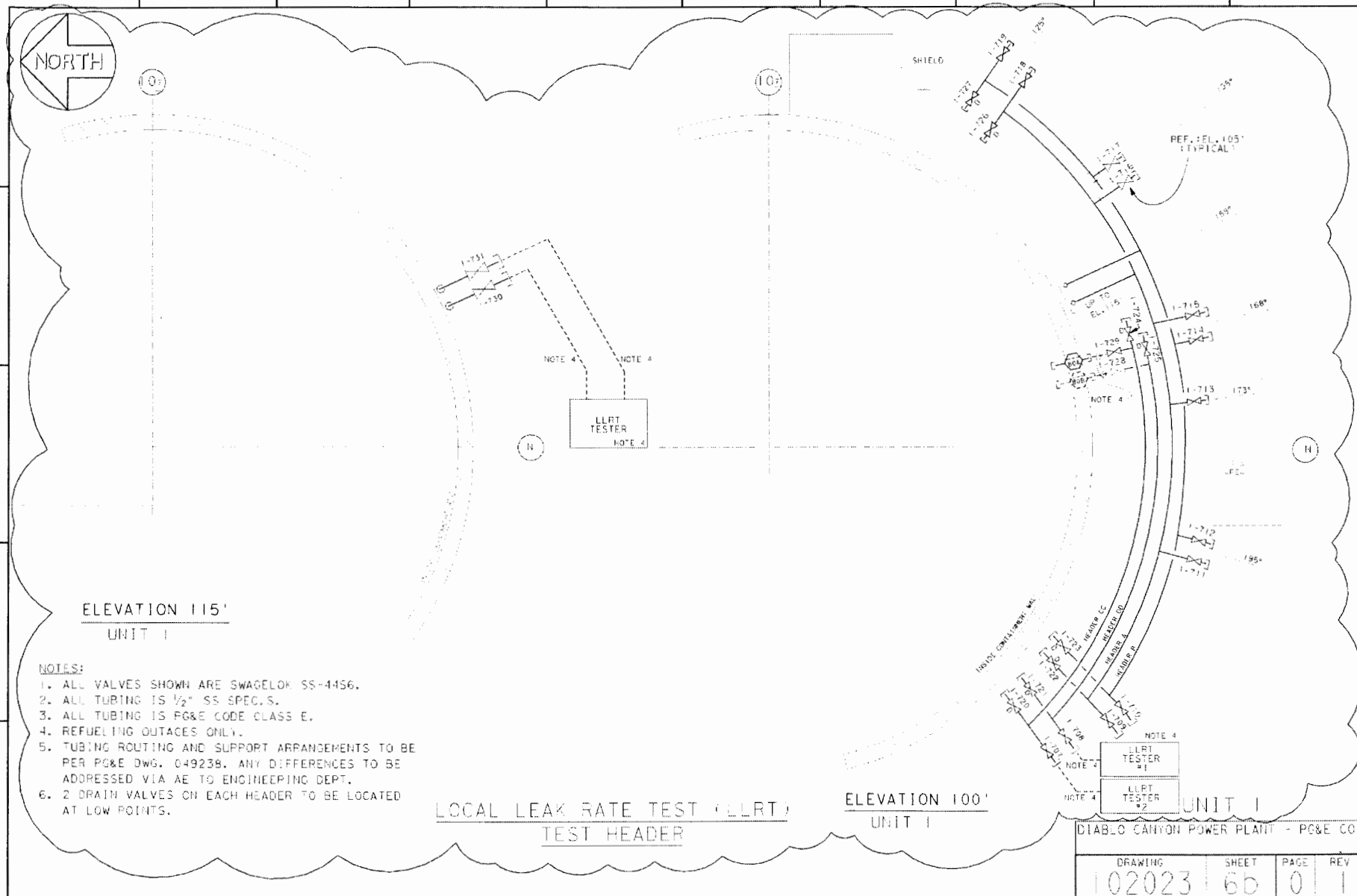
53	P G & E CO. SHEET 6A OF SHEETS	102023	REV 53
	V. CROFTLY		

RM INDEXED REV. _____

53 IC

102023.dgn
102023.dgn
NDN

01-12-2006

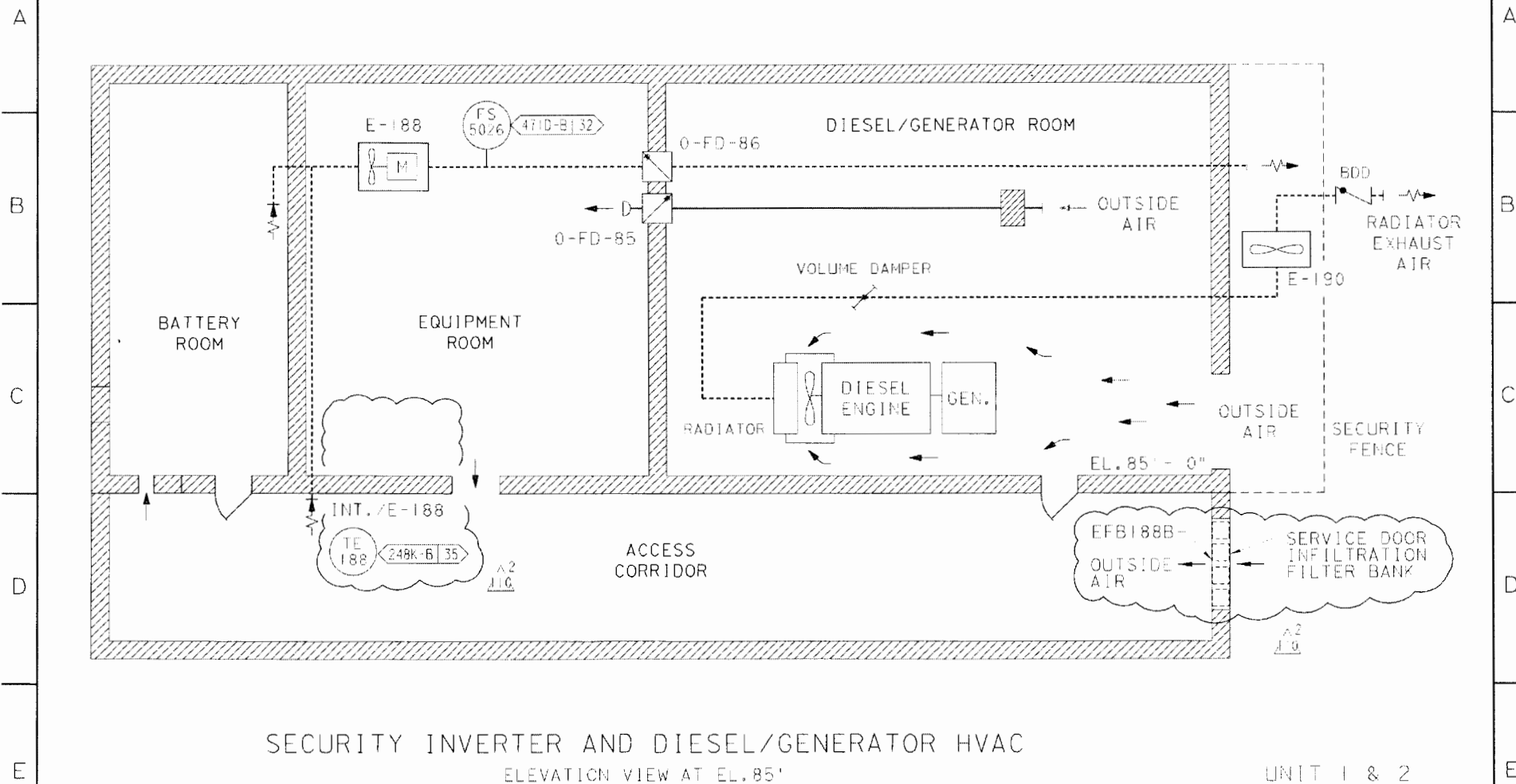


NOTES:

1. ALL VALVES SHOWN ARE SWAGelok SS-4456.
2. ALL TUBING IS 1/2" SS SPEC.S.
3. ALL TUBING IS PG&E CODE CLASS E.
4. REFUELING OUTAGES ONLY.
5. TUBING ROUTING AND SUPPORT ARRANGEMENTS TO BE PER PG&E DWG. 049238. ANY DIFFERENCES TO BE ADDRESSED VIA AE TO ENGINEERING DEPT.
6. 2 DRAIN VALVES ON EACH HEADER TO BE LOCATED AT LOW POINTS.

01-12-2006	NDN	FXC2	FERSI J. DALAL	MECHANICAL	M 16690	3/31/2006	INITIAL ISSUE PER FCT-30426
102023	6b	0	1				

90A 91A 92A 93A 94A 95A 96A 97A 98A 99A



SECURITY INVERTER AND DIESEL/GENERATOR HVAC
ELEVATION VIEW AT EL. 85'
(COMMON EQUIPMENT LOCATED IN AREA "L" OF UNIT 2)

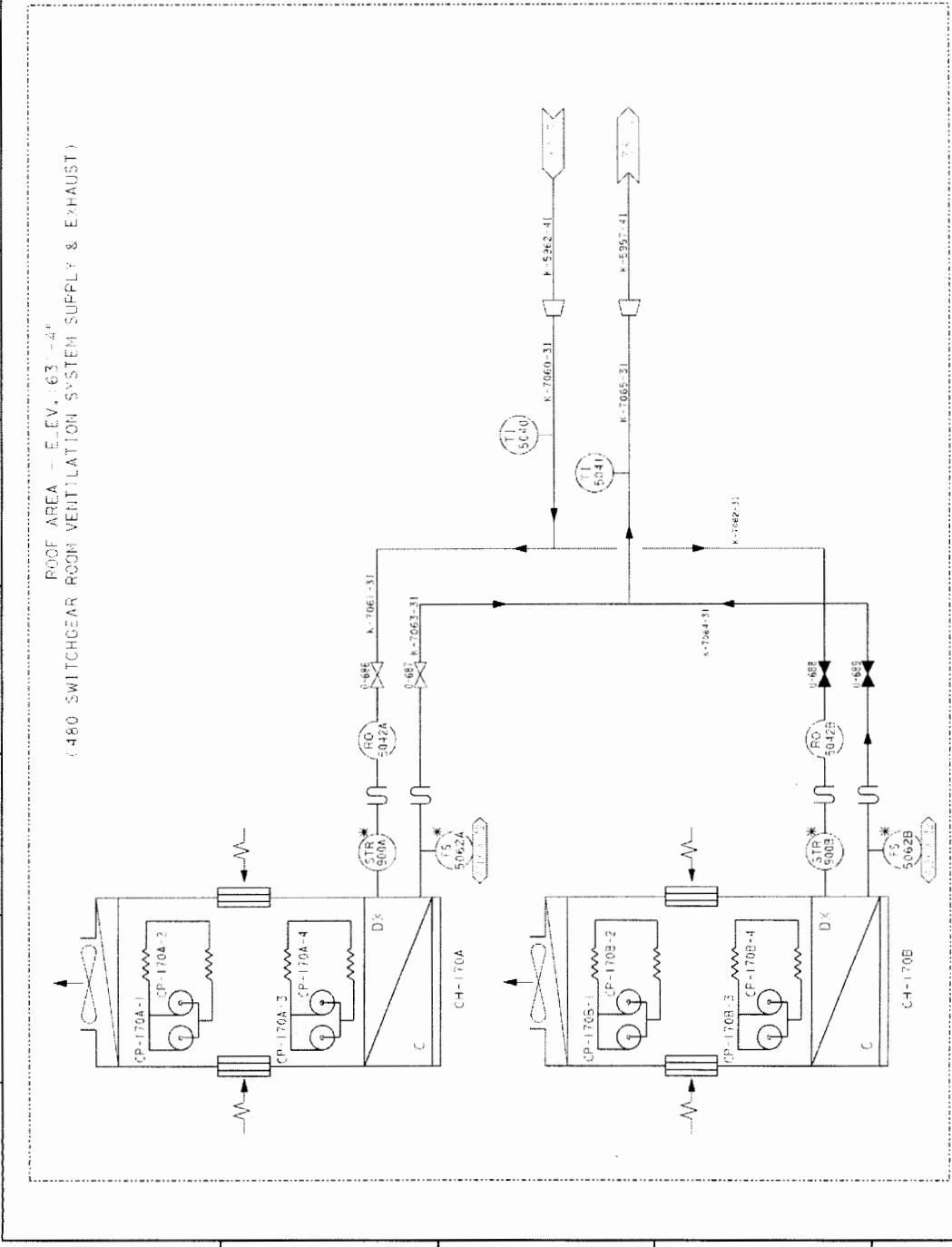
UNIT 1 & 2

DIABLO CANYON POWER PLANT - PG&E CO.			
VENTILATION & AIR CONDITIONING SYSTEMS			
DRAWING	SHEET	PAGE	REV
102023	9A	0	110

10-14-2014	MNRU	EXC2	FAZI NOT REQUIRED PER CF3.105							REVISED PER DDN-2*1027
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102023.dgn
 102023.dgn
 10-14-2014
 MNRU

130A | 131A | 132A | 133A | 134A | 135A | 136A | 137A | 138A | 139A



UNIT 1

DIABLO CANYON POWER PLANT - PG&E CO.

DRAWING	SHEET	PAGE	REV
102023	13A	0	1

10-07-2005 AJL2 FXC2 FRANCIS C. LING MECHANICAL N 16093 12-31-2005 REVISED PER DCI-SH-049694-00

FCI-030407

10-07-2005 AJL2 FXC2 FRANCIS C. LING MECHANICAL N 16093 12-31-2005 REVISED PER DCI-SH-049694-00

FCI-030407

10-07-2005 AJL2 FXC2 FRANCIS C. LING MECHANICAL N 16093 12-31-2005 REVISED PER DCI-SH-049694-00

FCI-030407

10-07-2005 AJL2 FXC2 FRANCIS C. LING MECHANICAL N 16093 12-31-2005 REVISED PER DCI-SH-049694-00

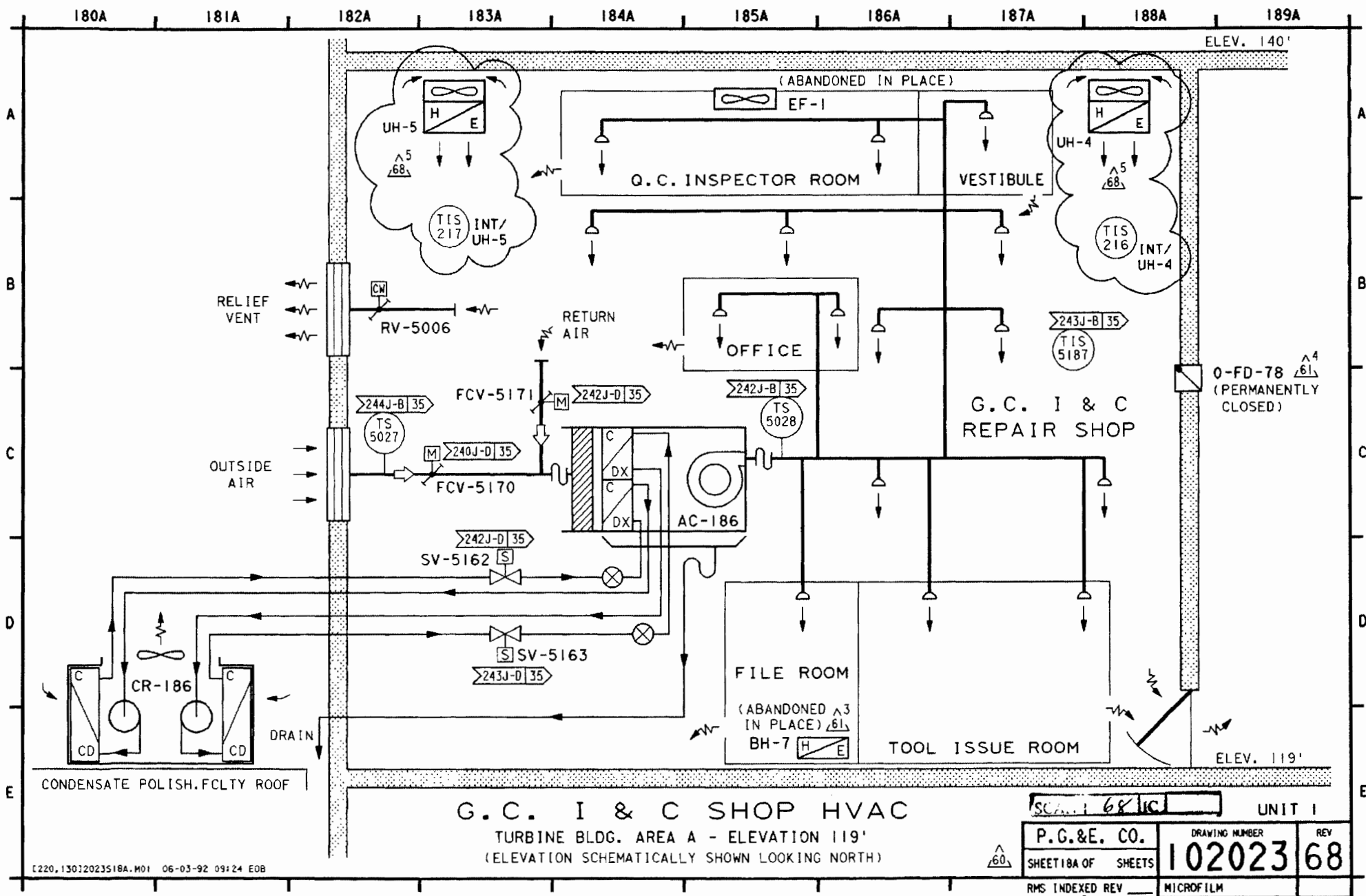
FCI-030407

10-07-2005 AJL2 FXC2 FRANCIS C. LING MECHANICAL N 16093 12-31-2005 REVISED PER DCI-SH-049694-00

FCI-030407

10-07-2005 AJL2 FXC2 FRANCIS C. LING MECHANICAL N 16093 12-31-2005 REVISED PER DCI-SH-049694-00

FCI-030407



180B 181B 182B 183B 184B 185B 186B 187B 188B 189B

A

B

C

D

E

A

B

C

D

E

FOR CONTROL ROOM
PRESSURIZATION SYSTEM
SEE DWG 511157

GC I & C SHOP
(SHEET 18A)

DIESEL/GENERATOR ROOMS
(SHEET 18)

EXHAUST TO OUTDOORS
THRU NORTH WALL LVR

1-FD-73

FB-70

P1 2502

S-70

FB-72

P1 2501

S-72

FB-71

S-71

MAIN GEN.
EXCITATION
SWITCHGEAR ROOM

4 KV
SWITCHGEAR
ROOMS
(SHEET 18)

EL. 140'-0"

1-FD-74

150-PHASE
BUS AREA

EL. 119'-0"

CORRIDOR

242K-A 35

725

INT/S-70

1-FD-72

EXHAUST TO OUTDOORS
THRU NORTH WALL LVR

EL. 107'-0"

4 KV
CABLE SPREADING
ROOMS
(SHEET 18)

242K-E 35

725

INT/S-72

CORRIDOR

12 KV SWITCHGEAR ROOM

EL. 85'-0"

1-FD-75

E-65

725

INT/S-71

MAINTENANCE
& TESTING
RELAY REL.

WH-5

725

INT/S-71

725

INT/S-71

725

INT/S-71

725

INT/S-71

725

INT/S-71

725

INT/S-71

725

AREA "A"

TURBINE BLOC VENTILATION SYSTEM

12 KV CABLE SPREADING ROOM

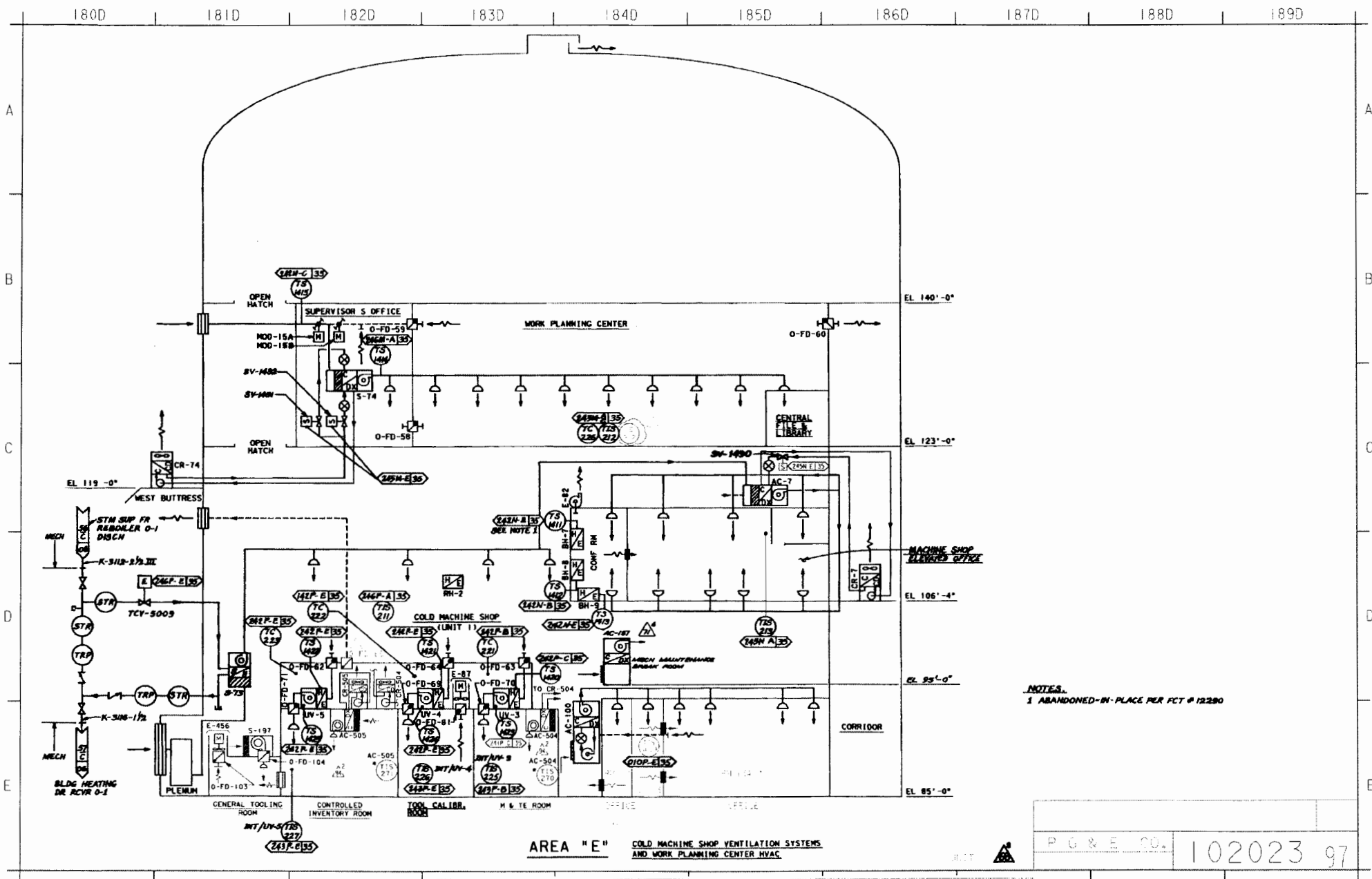
EL. 75'-0"

UNIT 1

P G & E CO.

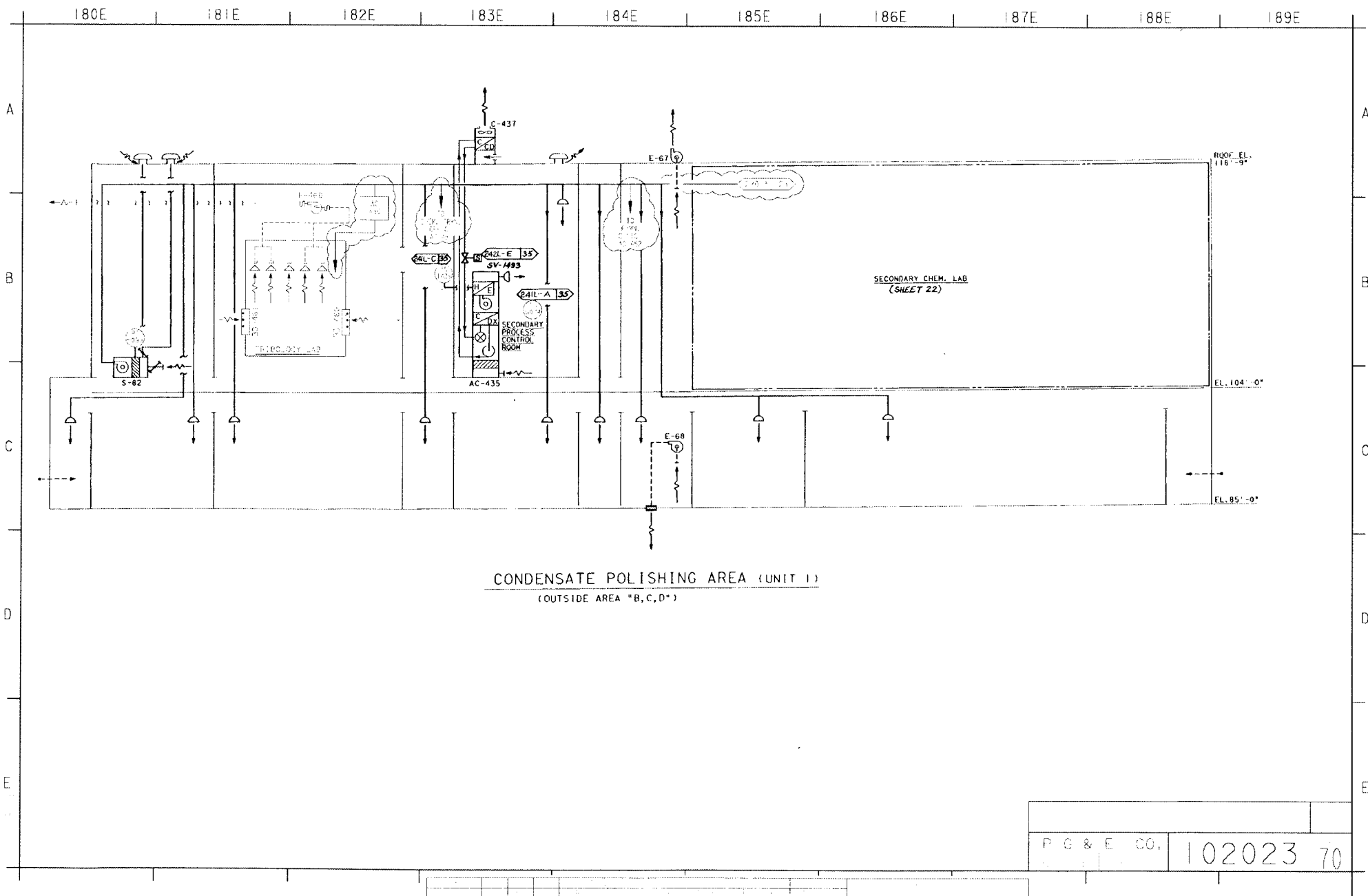
102023

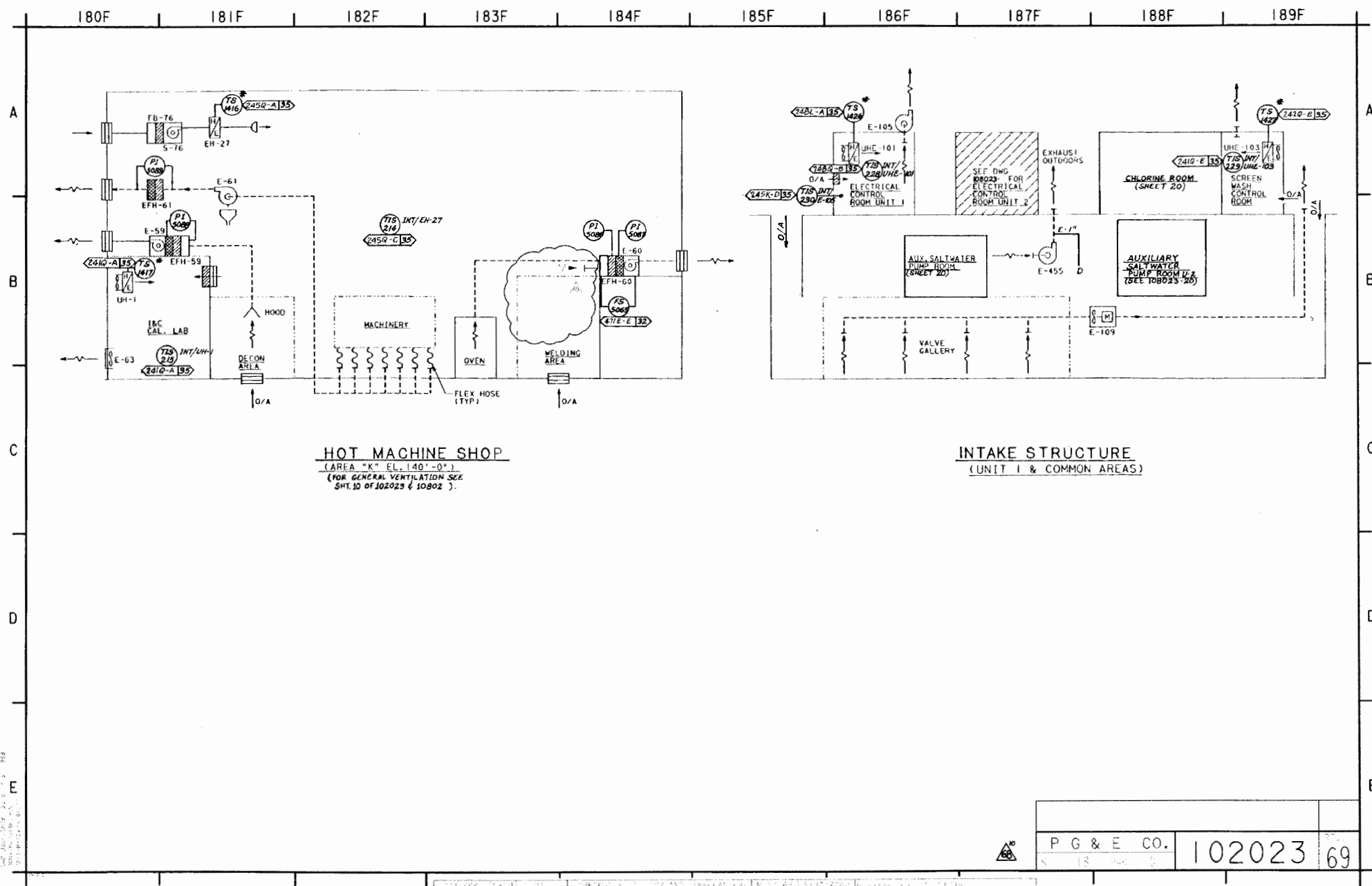
70



NOTES:
1. ABANDONED-IN-PLACE PER FCT # 12290

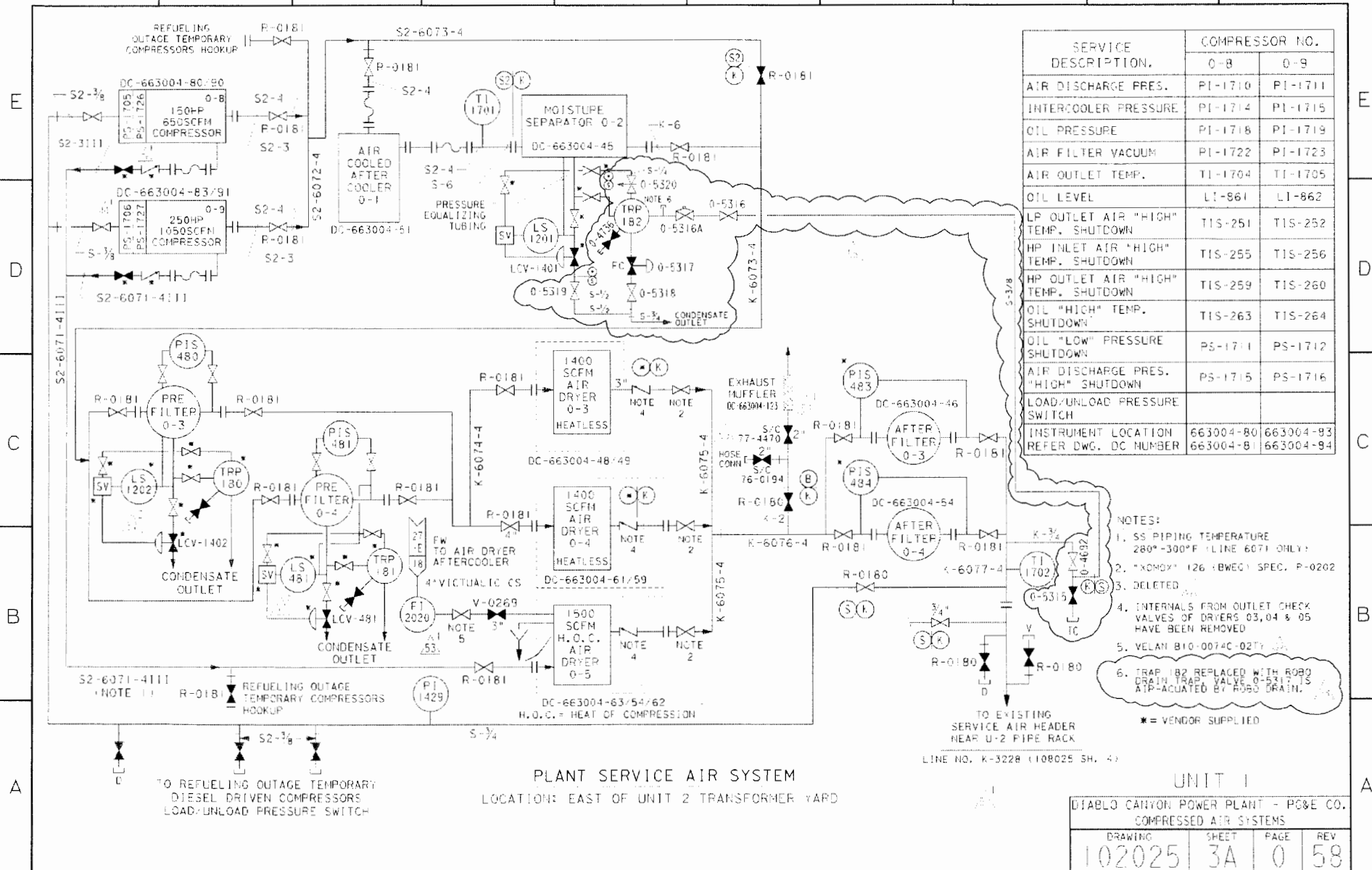
P. G. & E. CO. 102023 97





P G & E CO.		102023	69
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30A | 31A | 32A | 33A | 34A | 35A | 36A | 37A | 38A | 39A



07-17-2012
MNRU
07-17-2012
MNRU

07-17-2012	MNRU	FXC2	KERSI J. DALAL	MECHANICAL	M 16630	3/31/2014	REVISED PER DDN-2*001-0 AND DFC-3*1568-1
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UNIT 1			
DIABLO CANYON POWER PLANT - PGE CO. COMPRESSED AIR SYSTEMS			
DRAWING	SHEET	PAGE	REV
102025	3A	0	58

30B

31B

32B

33B

34B

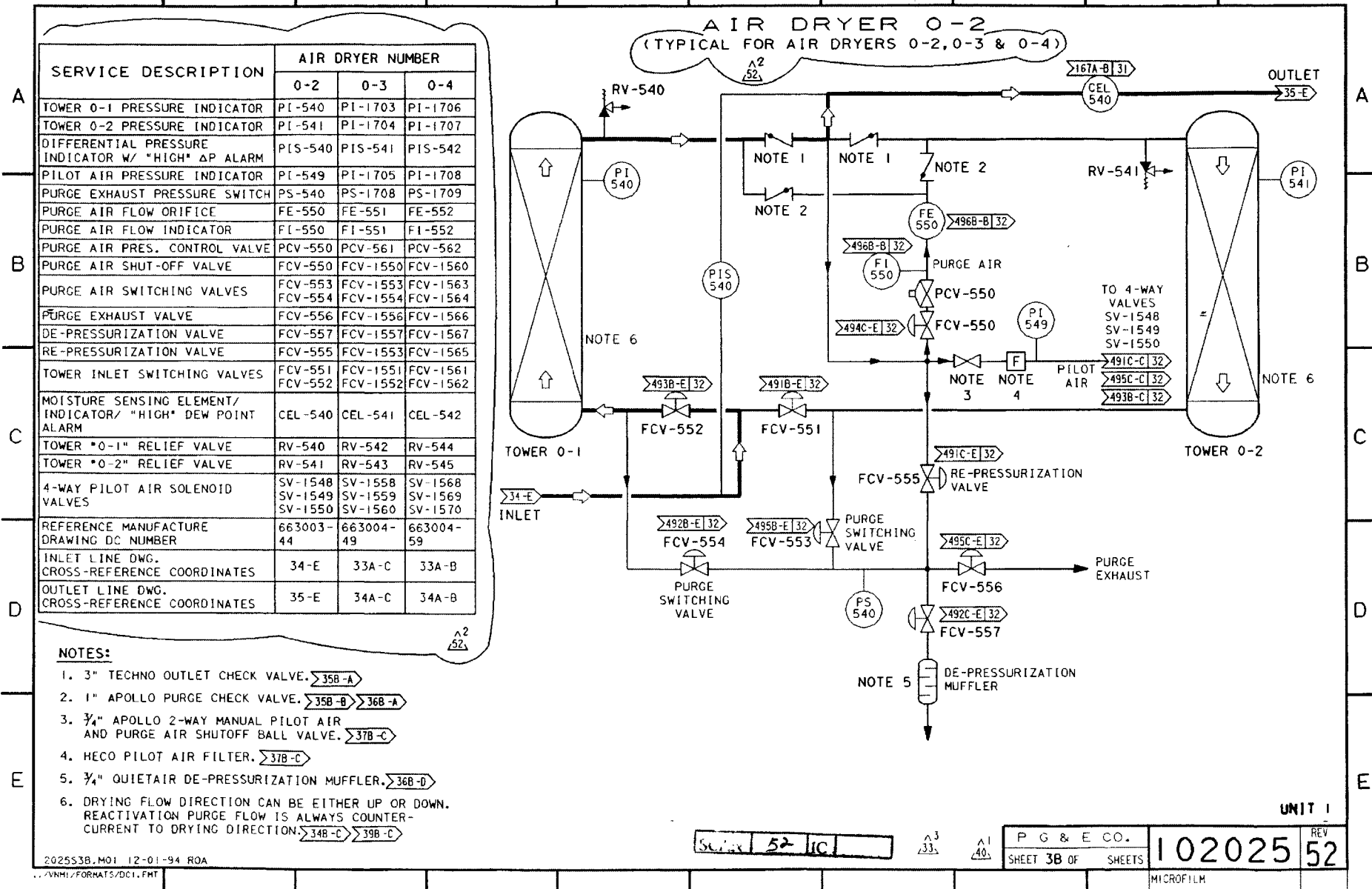
35B

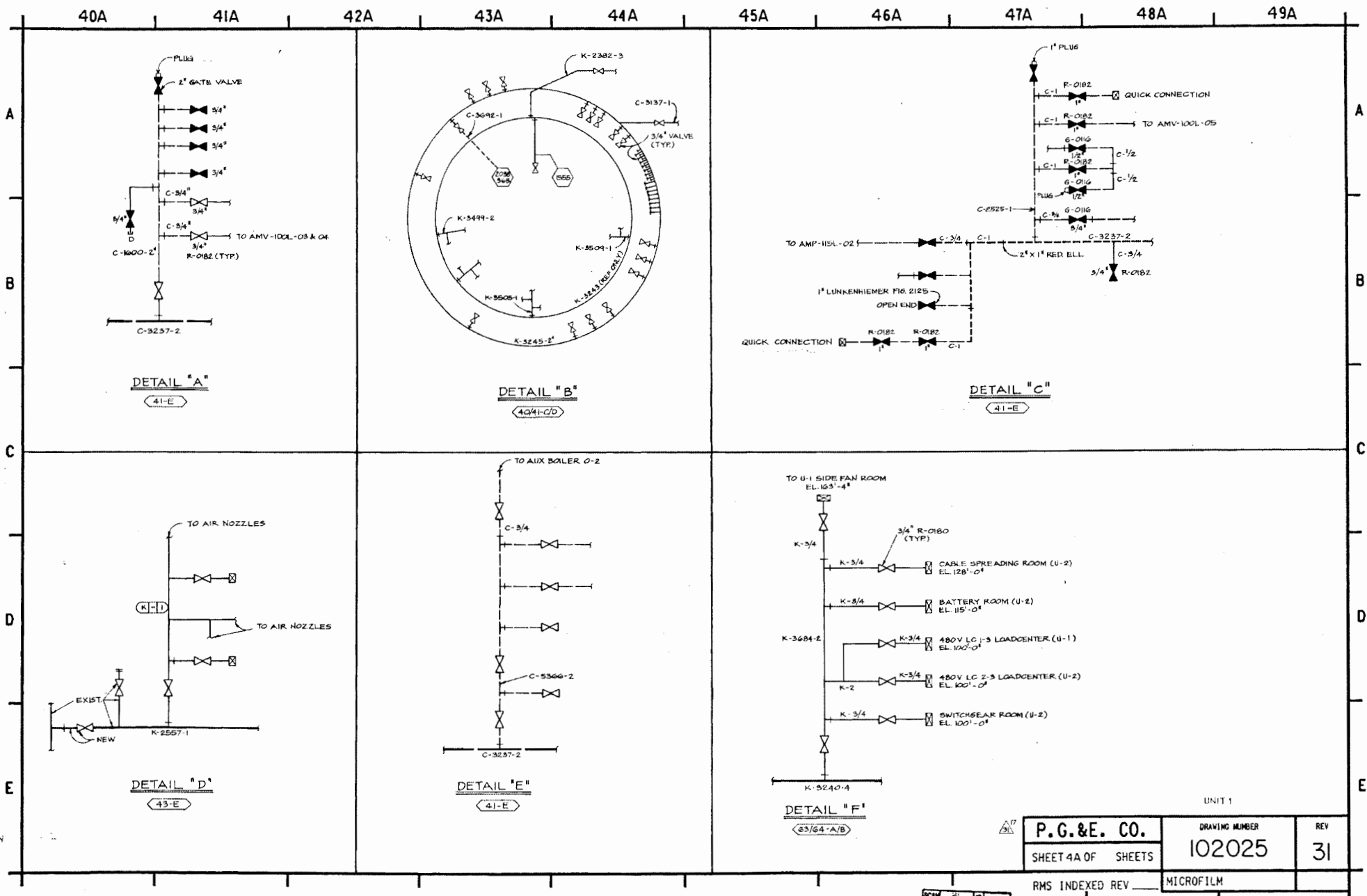
36B

37B

38B

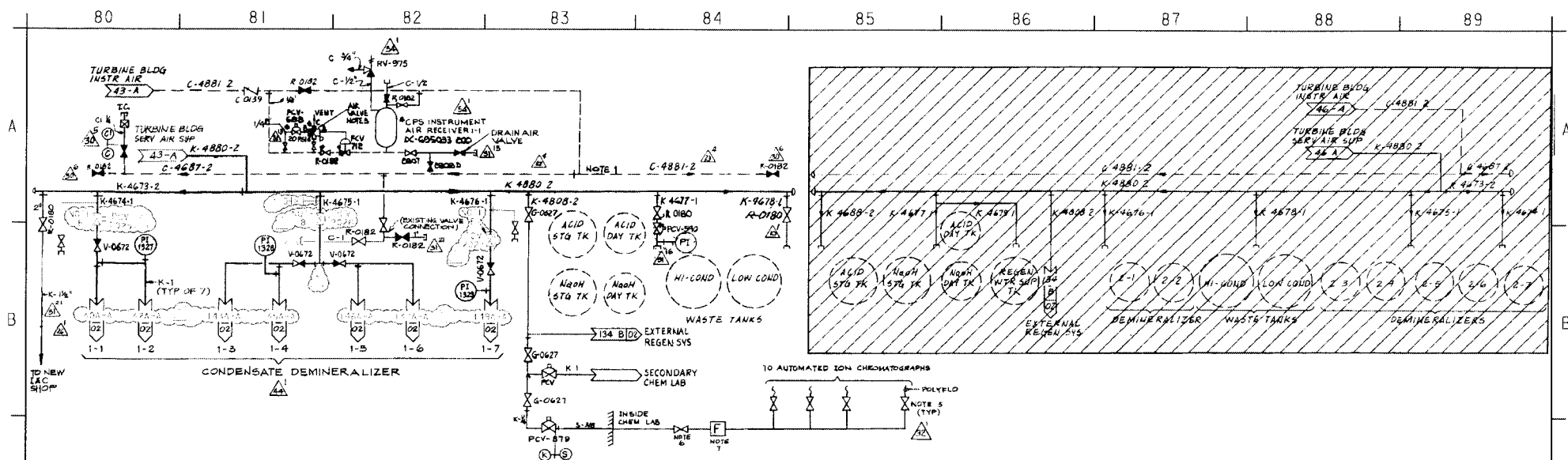
39B





UNIT 1		
P.G.&E. CO.	DRAWING NUMBER	REV
SHEET 4A OF SHEETS	102025	31
RMS INDEXED REV	MICROFILM	

SCALE 3/4" = 1'



CONDENSATE POLISHING EQUIP SERVICE & INST AIR SUPPLY

NOTES

- 1 REFER TO DWG DC-G95033-137-1 FOR CONDENSATE POLISHING SYSTEM INSTRUMENT AIR DISTRIBUTION DETAILS
- 2 # DENOTES MANUFACTURER SUPPLIED INSTRUMENTS AND EQUIPMENT
- 3 PORTS A & D (N.G.) OF AIR LOCK VALVE CLOSE ON LOSS OF PRESSURE (BELOW 20 PSIG) TO CLOSE PCV-712 AND ISOLATES DOWNSTREAM OF AIR VOLUME TANK
- 4 DELETED

5 3/8 NUPRO MODEL 65-6PAT PLUG VALVES

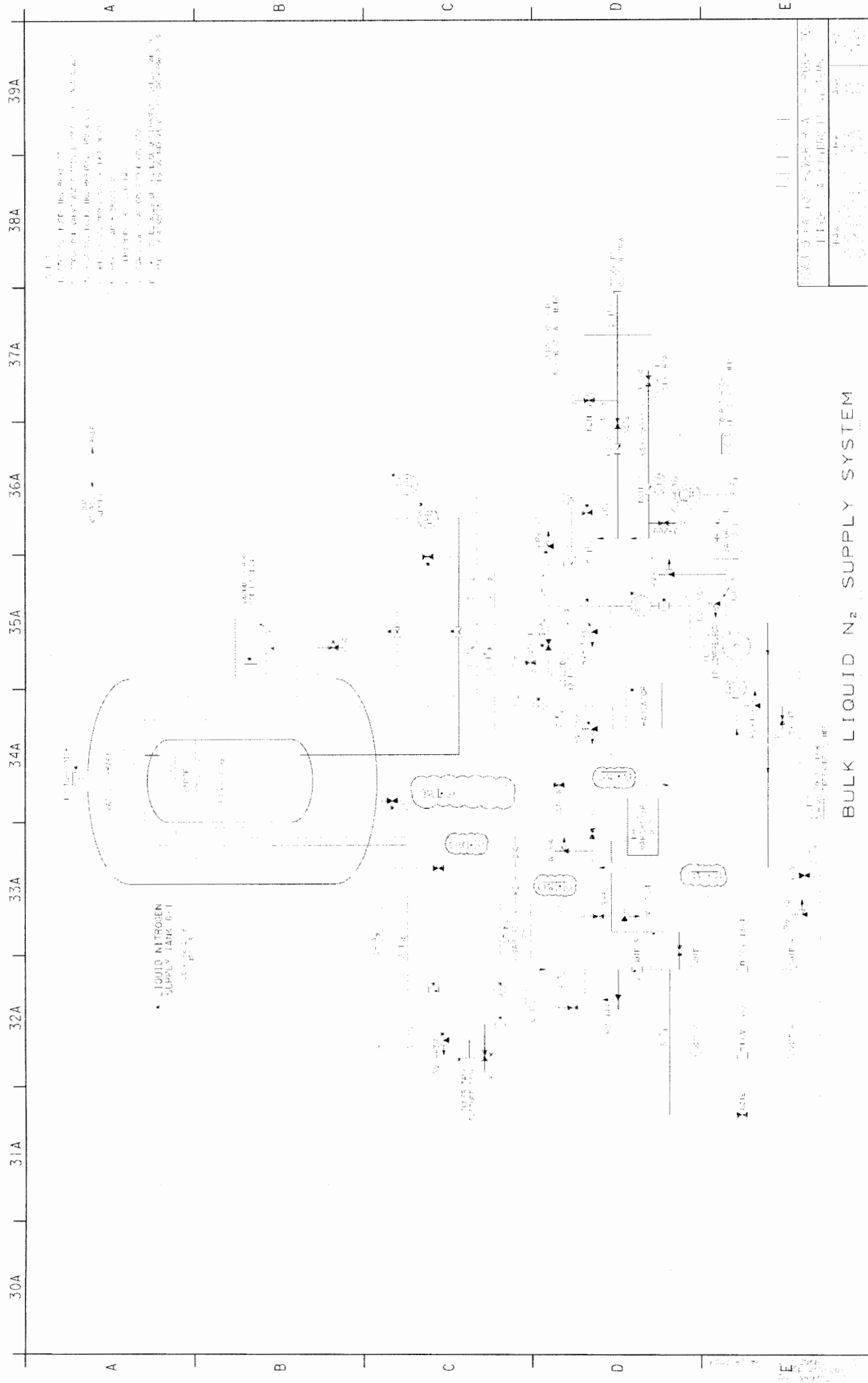
6 WHITEY 55-4456 BALL VALVE

7 NOKREN FILTER # F08-200-M3TA

8 AIR FILTER 3" PRESSURE REGULATING VALVE

P O & E CO.

102025 59

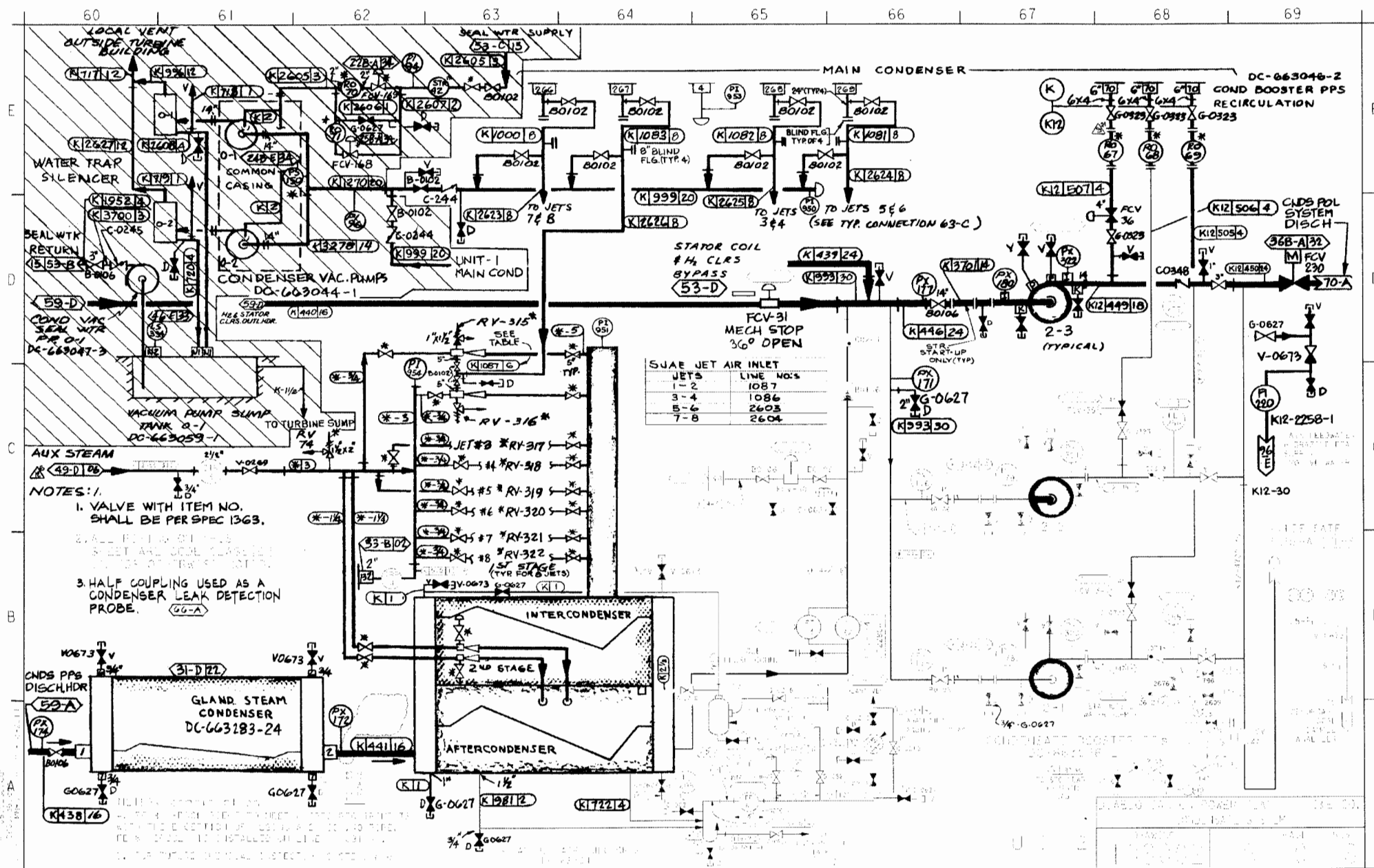


30A 31A 32A 33A 34A 35A 36A 37A 38A 39A

- 1. This system is designed to supply liquid nitrogen to the various tanks and pumps in the system.
- 2. The system is designed to operate at a pressure of 100 psig.
- 3. The system is designed to operate at a temperature of -196°C.
- 4. The system is designed to operate at a flow rate of 100 gpm.
- 5. The system is designed to operate at a pressure of 100 psig.
- 6. The system is designed to operate at a temperature of -196°C.
- 7. The system is designed to operate at a flow rate of 100 gpm.
- 8. The system is designed to operate at a pressure of 100 psig.
- 9. The system is designed to operate at a temperature of -196°C.
- 10. The system is designed to operate at a flow rate of 100 gpm.

DESIGNER: [Name]	DATE: [Date]
PROJECT: [Project Name]	SCALE: [Scale]
REVISION: [Revision]	APPROVED: [Signature]





80A

81A

82A

83A

84A

85A

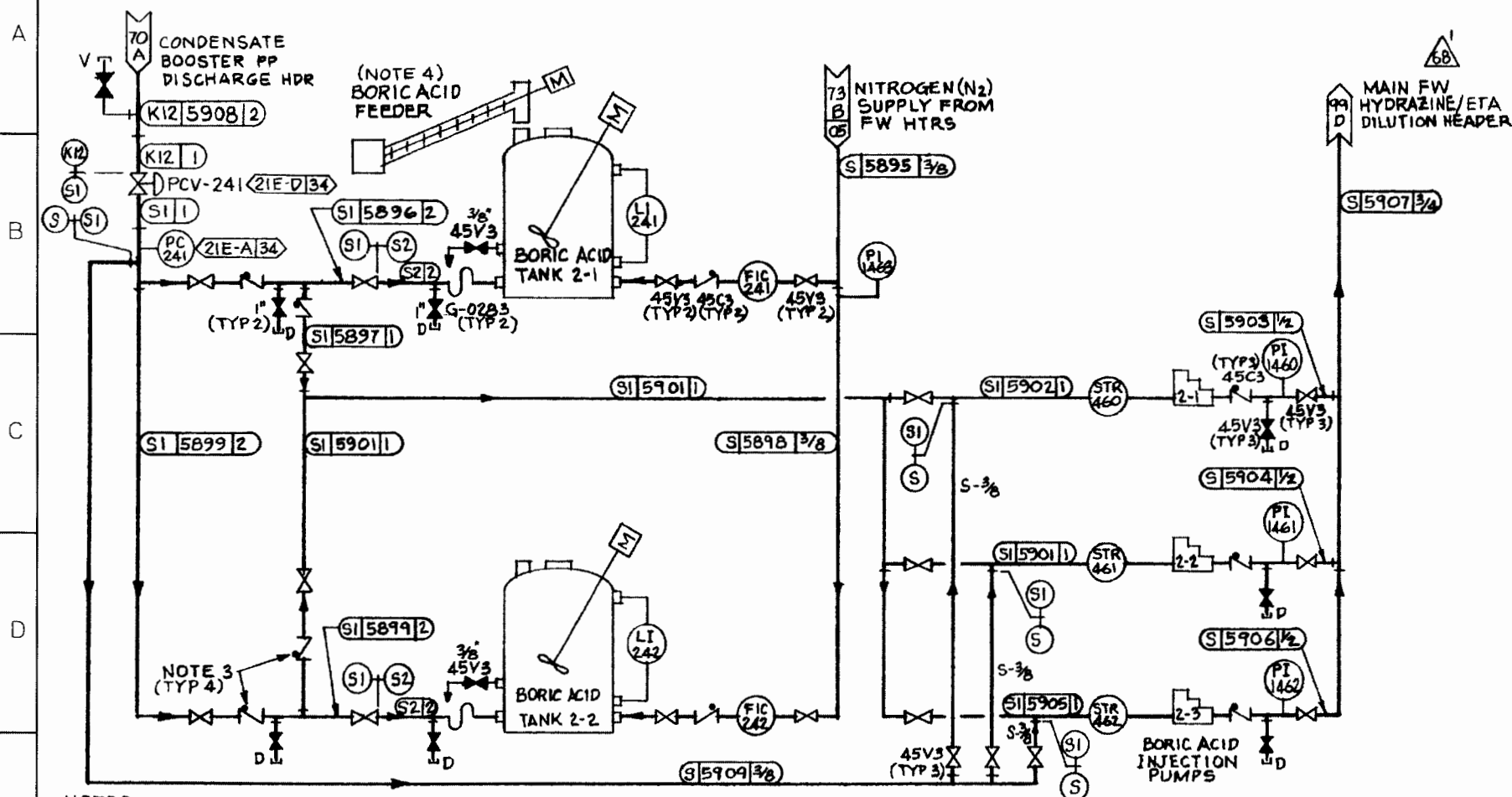
86A

87A

88A

89A

BORIC ACID INJECTION SUB-SYSTEM



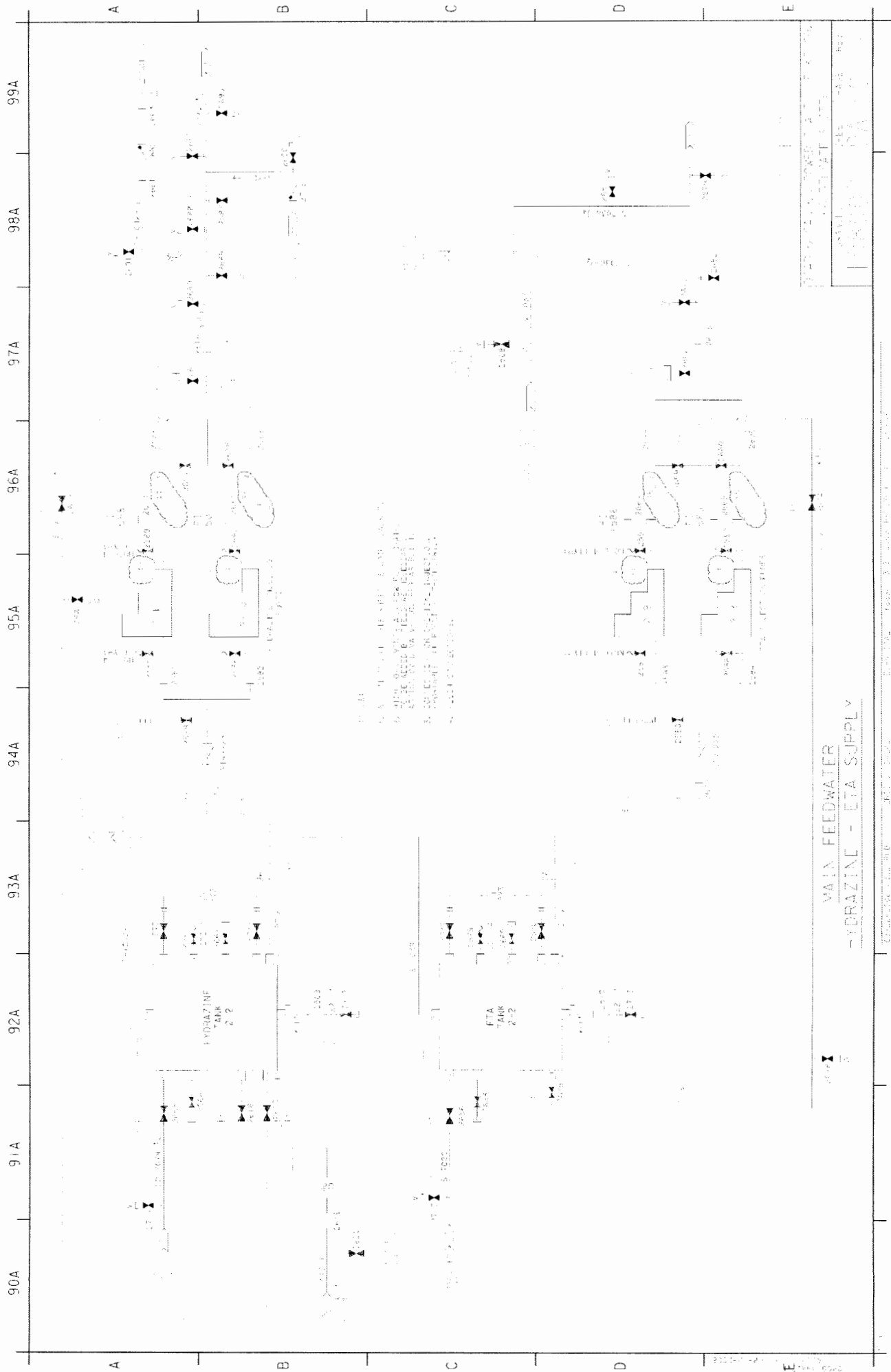
NOTES:

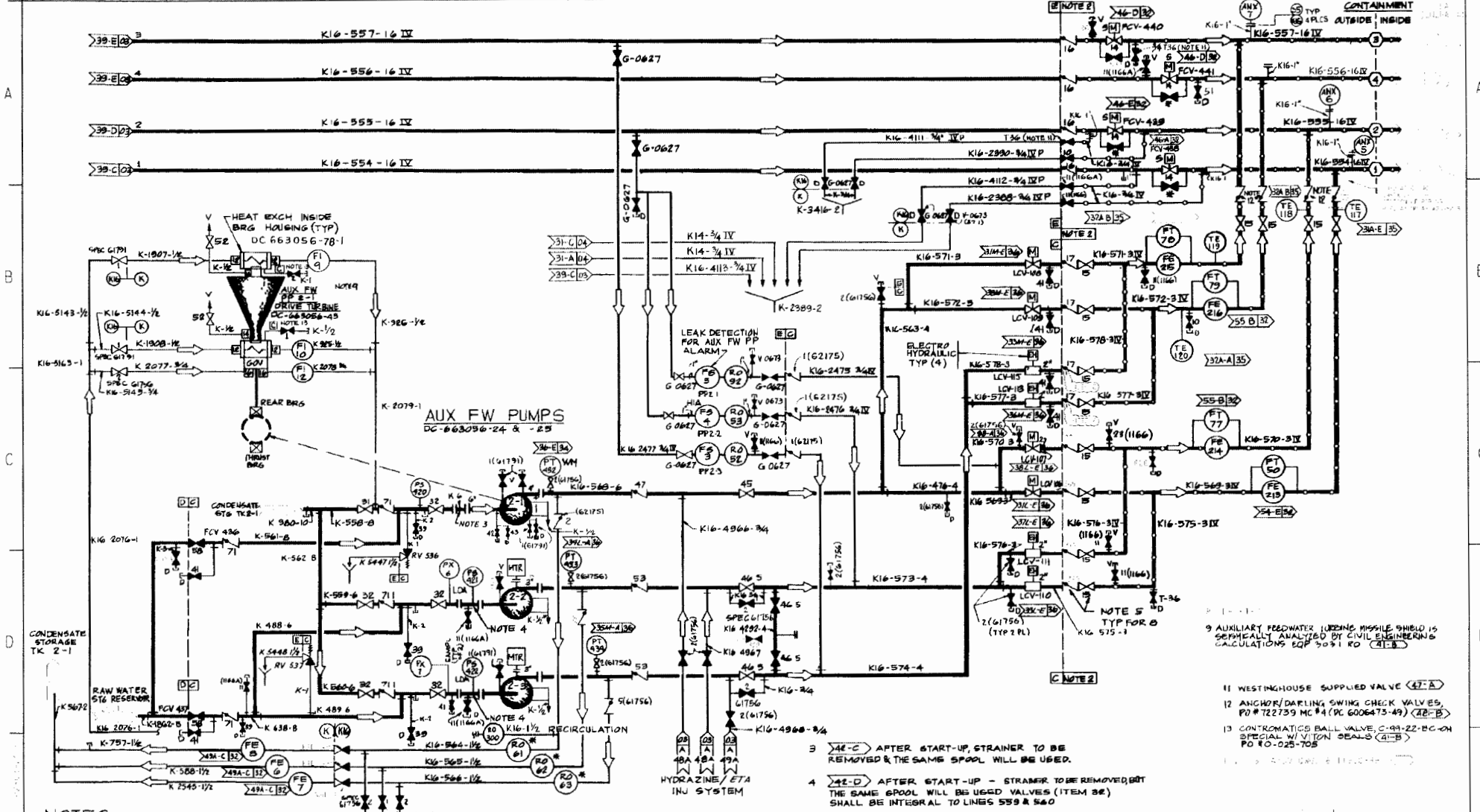
1. ALL STOP VALVES ON THIS SHEET ARE GLOBE VALVES, PG & E VALVE SPEC MARK NO V-0301 UNLESS NOTED.
2. PROVIDE LOW POINT DRAINS ON 2" SUPPLY LINES.
3. CHECK VALVES ARE LADISH MOD. 5371. (80A-D)
4. THIS SWINGS & IS SHARED BY BORIC ACID TANKS 2-1 & 2-2 (82A-A)
5. ALL PIPING SHOWN ON THIS SHEET SHALL BE PG & E CODE CLASS "E" 62

PG & E CO.

108002

69





NOTES

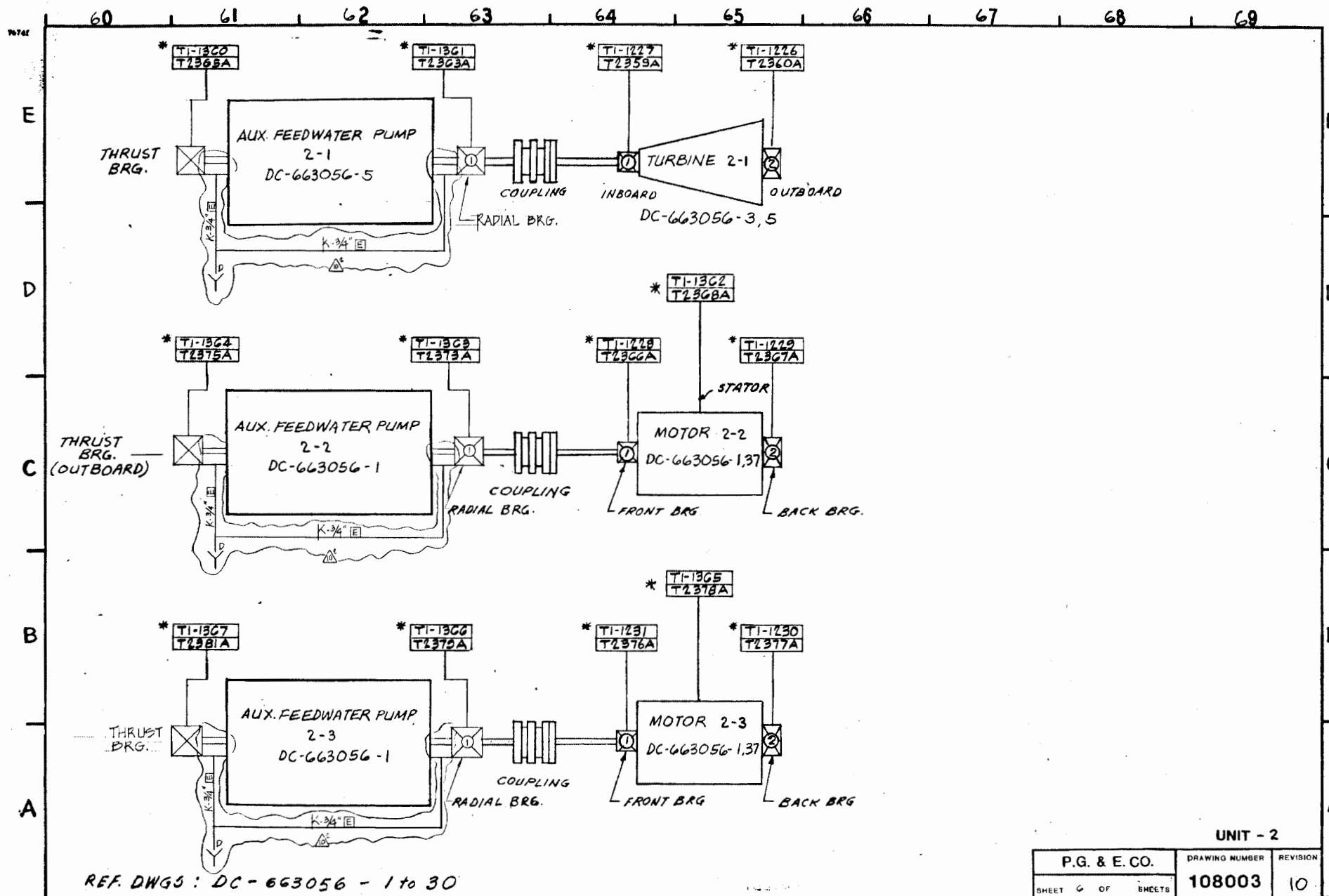
1. ALL MANUAL AND MOTOR OPERATED VALVES ON THIS SHEET WITH ITEM NO'S ARE PER SPEC 8711 (KELLOGG) EXCEPT AS NOTED VALVES PER P&E MARK NO ARE PER SPEC 8711 (KELLOGG)
2. MANUAL AND CONTROL VALVES AND PIPING REPRESENTED AS UNDER THIS NOTE ARE SUBJECT TO ASME BOILER AND PRESSURE VESSEL CODE SECT I 1968, DESIGN TO ANGI B 31.1 (1967)

3. 46-C AFTER START-UP, STRAINER TO BE REMOVED & THE SAME SPOOL WILL BE USED.
4. 42-D AFTER START-UP - STRAINER TO BE REMOVED, BUT THE SAME SPOOL WILL BE USED VALVES (ITEM 32) SHALL BE INTEGRAL TO LINES 553 & 540
5. 47-D ITEMS 15 AND 17 VALVES SHALL BE INSULATED

9. AUXILIARY FEEDWATER TURNING MISSILE SHIELD IS SEPARATELY ANALYZED BY CIVIL ENGINEERING CALCULATIONS EQP 5091 RD (47-B)

11. WESTINGHOUSE SUPPLIED VALVE (47-A)
12. ANCHOR/DARLING SWING CHECK VALVES, PD # 722739 MC #4 (DC 6006473-49) (47-B)
13. CONTRONICS BALL VALVE, C-44-22-BC-04 SPECIAL W/ VITON SEALS (47-B)

DATE	1/18/68
BY	W. J. B.
CHECKED	W. J. B.
APPROVED	W. J. B.



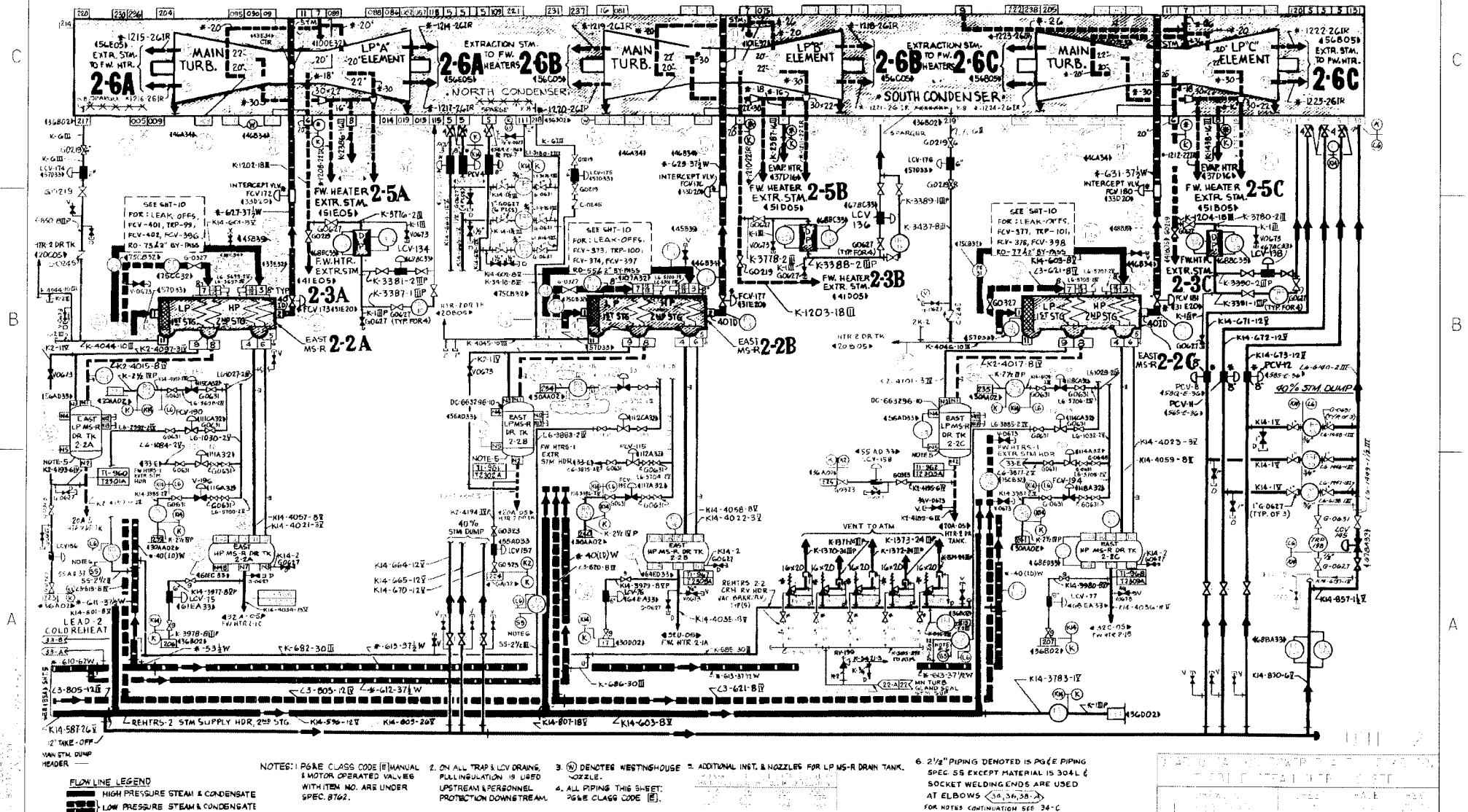
UNIT - 2

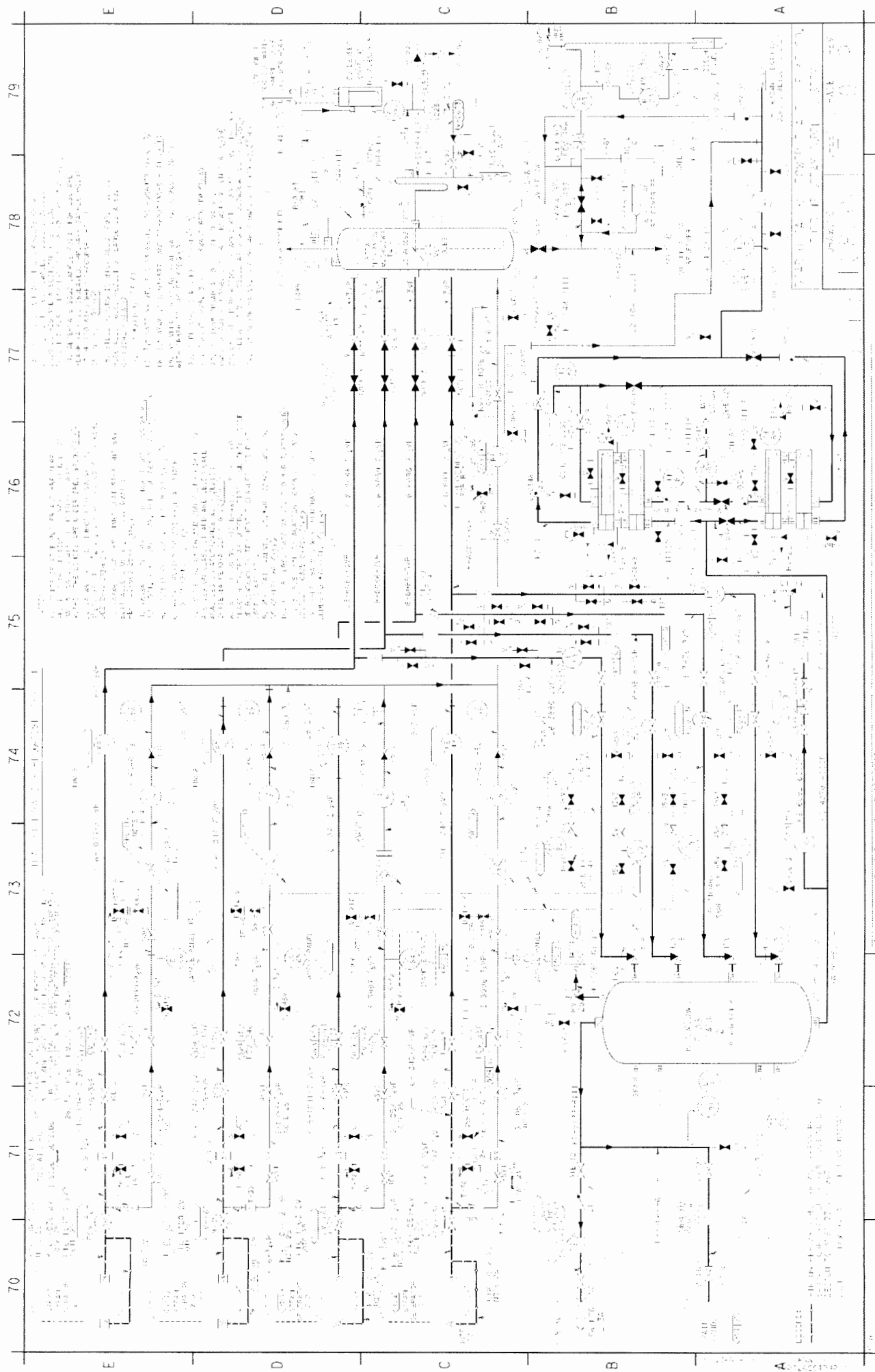
P.G. & E. CO.	DRAWING NUMBER	REVISION
SHEET 6 OF 8 SHEETS	108003	10
	MICROFILM	10

THIS DRAWING HAS BEEN REPRODUCED
WITHOUT CHANGE FROM ORIGINAL DRAWING
CHANGE NO. 1 DATE 1/1/68 APPROVED

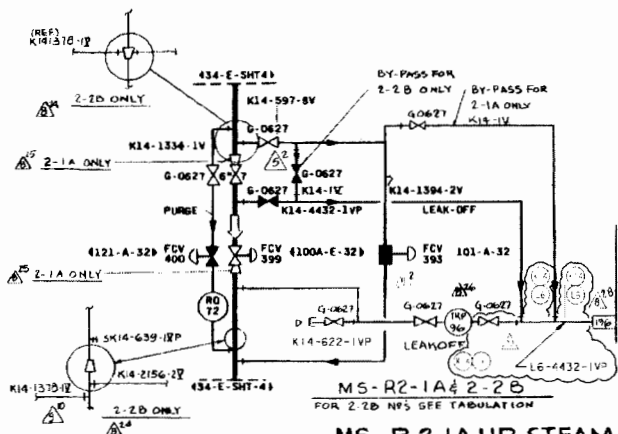
RM INDEXED REV. 0
SCALE 1/2" = 1'-0"
APPD MC










UNIT-2



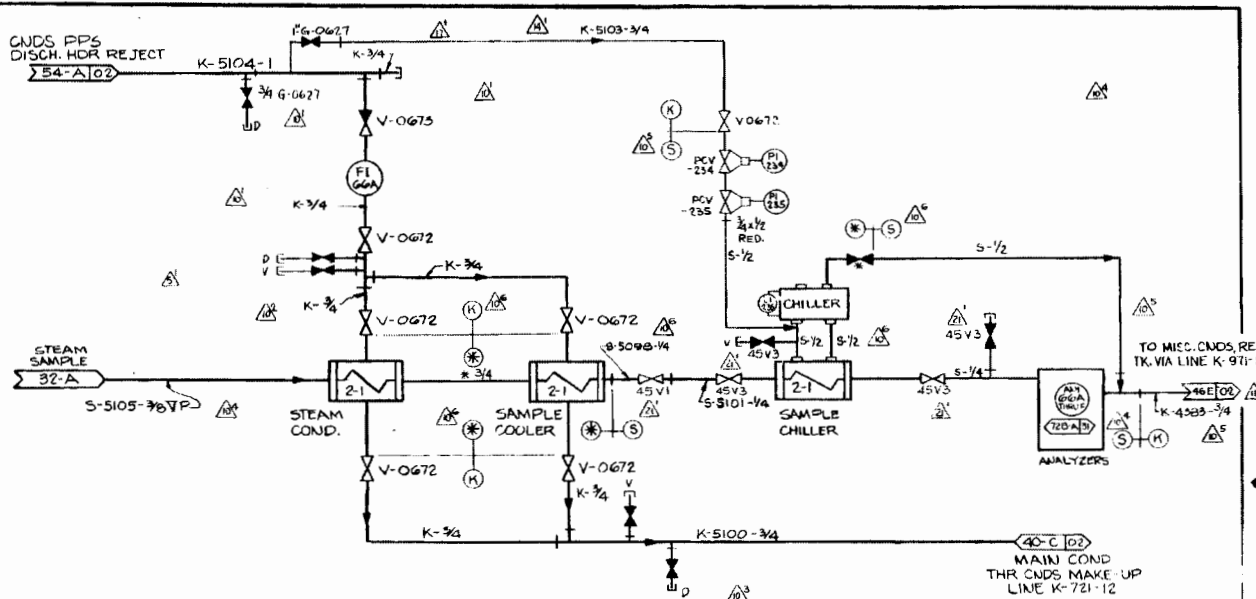


100 101 102 103 104 105 106 107 108 109

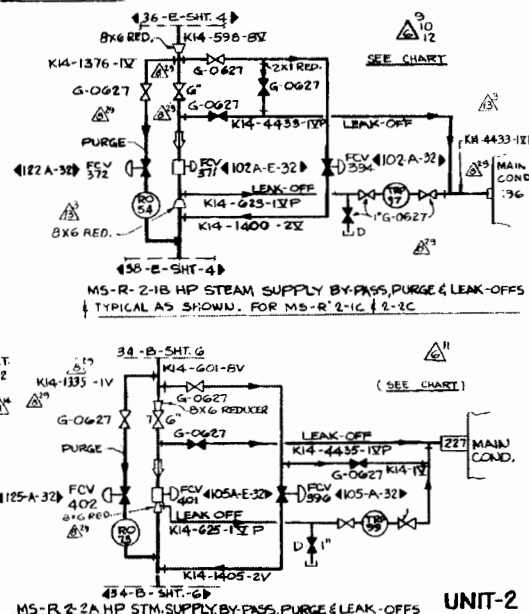


MOISTURE SEPARATOR - REHEATER HP STEAM SUPPLY												
MS-R		SUPPLY			BY-PASS		LEAK-OFF			PURGE		
NO	COORD	FCV	LINE	SHUT OFF VALVES	FCV	LINE	LINE NO	COND NO	TRP	FCV	RD	LINE NO
2-1A	34-E-SH 4	(100A-E-32) 398	597	ITEM-7 SPEC B762	(101-A-32) 393	1384	4432 & 622	196 	96	(121-A-32) 400	72	1334
2-1B	36-E-SH 4	(102A-E-32) 371	598	ITEM-7 SPEC B762	(102-A-32) 394	1400	4433 & 623	196  	97	(122-A-32) 372	54	1376
2-1C	38-E-SH 4	(103A-E-32) 375	599	ITEM-7 SPEC B762	(104-A-32) 395	1402	4434 & 624	196  	98	(124-A-32) 376	76	1380
2-2A	34-B-SHG	(105A-E-32) 401	601	ITEM-7 SPEC B762	(105-A-32) 396	1405	4435 & 625	227 	99	(125-A-32) 402	73	1335
2-2B	36-B-SHG	(106A-E-32) 373	602	ITEM-7 SPEC B762	(107-A-32) 397	2156	4436 & 639	196 	100	(127-A-32) 374	95	1378
2-2C	38-B-SHG	(108A-E-32) 377	603	ITEM-7 SPEC B762	(108-A-32) 398	2284	4437 & 640	196  	101	(128-A-32) 378	77	1382

MS-R 2-1A HP STEAM SUPPLY, BYPASS, PURGE & LEAK-OFFS, TYPICAL FOR MS-R 2-2B



MAIN STEAM PURITY ANALYZER

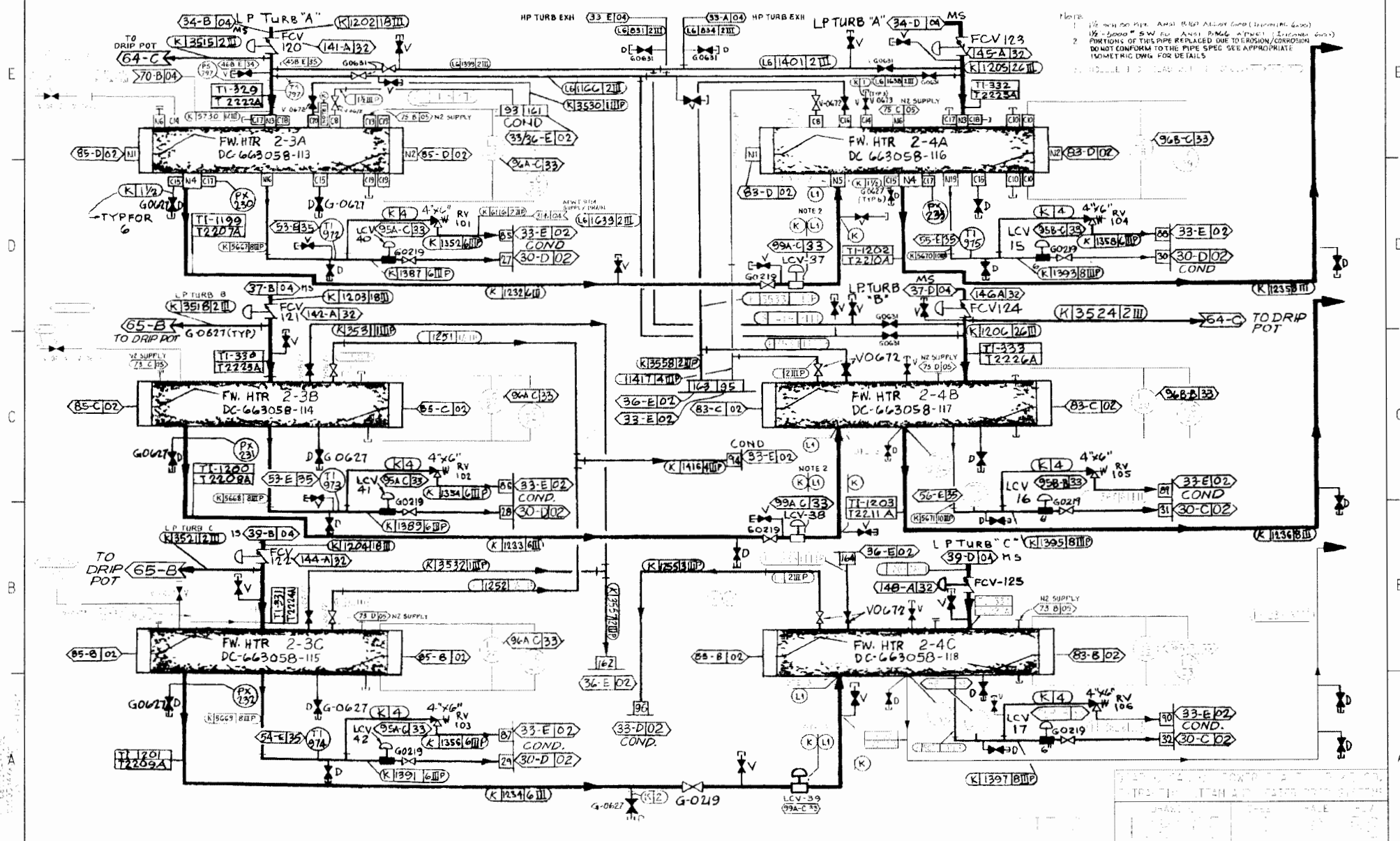


MS-R 2-1B HP STEAM SUPPLY, BYPASS, PURGE & LEAK-OFFS

P G & E CO.

108004

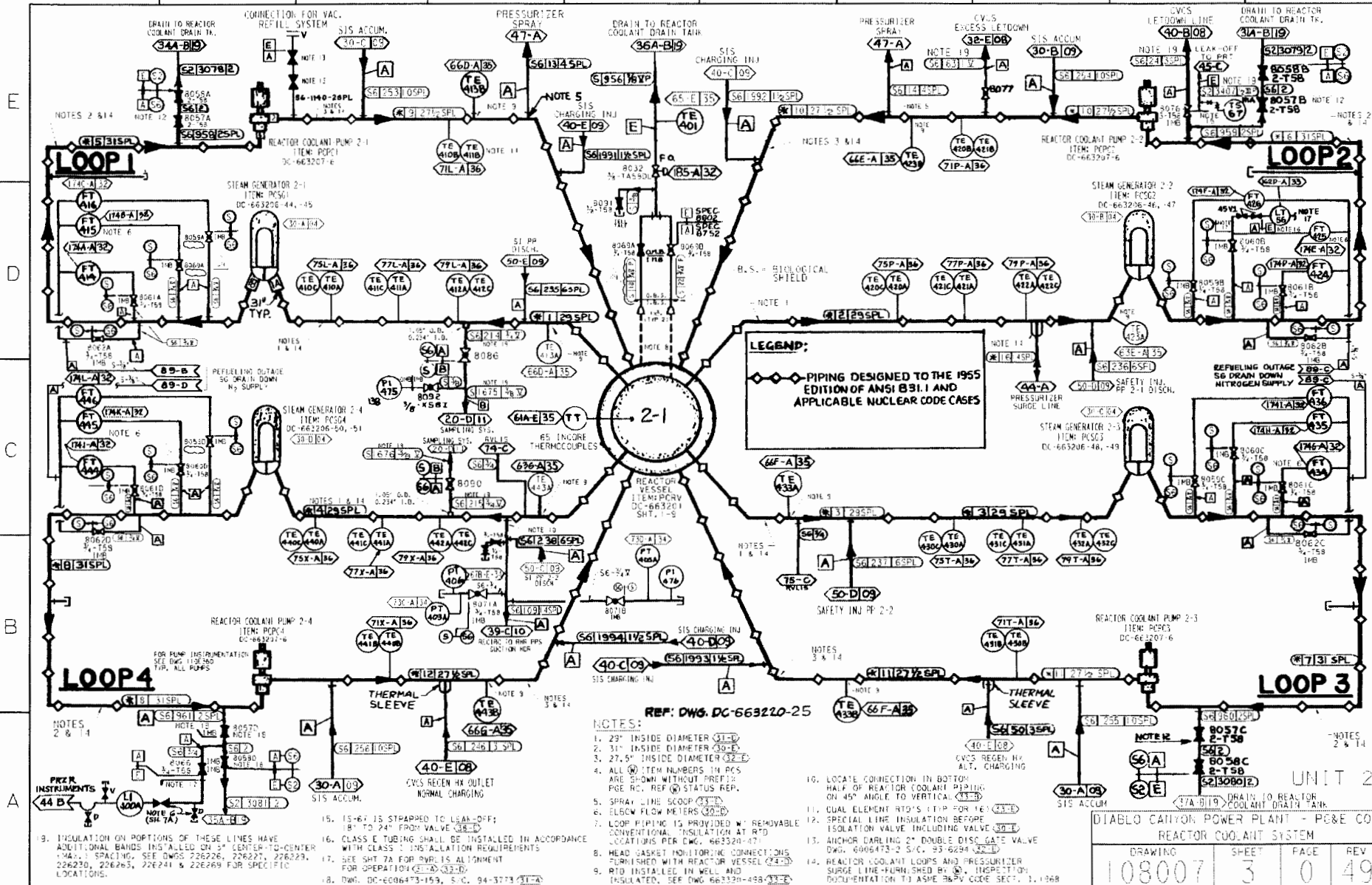
22



Notes:
 1. 1/2 inch 304 SS. ANSI B16.33 Class 1500 (Schedule 40S)
 2. 1/2 inch 304 SS. ANSI B16.33 Class 1500 (Schedule 40S)
 3. FUNCTIONS OF THIS PIPE REPLACED DUE TO EROSION/CORROSION
 4. DO NOT CONFORM TO THE PIPE SPEC. SEE APPROPRIATE
 5. INSTRUMENTATION FOR DETAILS

DATE	11/15/01
BY	11/15/01
CHKD	11/15/01
APP'D	11/15/01
REV	11/15/01

30 31 32 33 34 35 36 37 38 39



03-16-2015 JNS41FXC2 SWR2 NOT REQUIRED PER CF3.105

REVISED PER DFT-7*3060
DFT-7*3062

LEGEND: VALVE LEAK-OFF

NOTE 1: THIS DRAWING IS A REVISION OF THE PREVIOUS EDITION. THE CHANGES ARE INDICATED BY THE FOLLOWING:

NOTE 2: THE FOLLOWING CHANGES WERE MADE TO THE PREVIOUS EDITION:

NOTE 3: THE FOLLOWING CHANGES WERE MADE TO THE PREVIOUS EDITION:

NOTE 4: THE FOLLOWING CHANGES WERE MADE TO THE PREVIOUS EDITION:

NOTE 5: THE FOLLOWING CHANGES WERE MADE TO THE PREVIOUS EDITION:

NOTE 6: THE FOLLOWING CHANGES WERE MADE TO THE PREVIOUS EDITION:

NOTE 7: THE FOLLOWING CHANGES WERE MADE TO THE PREVIOUS EDITION:

NOTE 8: THE FOLLOWING CHANGES WERE MADE TO THE PREVIOUS EDITION:

NOTE 9: THE FOLLOWING CHANGES WERE MADE TO THE PREVIOUS EDITION:

NOTE 10: THE FOLLOWING CHANGES WERE MADE TO THE PREVIOUS EDITION:

NOTE 11: THE FOLLOWING CHANGES WERE MADE TO THE PREVIOUS EDITION:

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NOTE 51: THE FOLLOWING CHANGES WERE MADE TO THE PREVIOUS EDITION:

NOTE 52: THE FOLLOWING CHANGES WERE MADE TO THE PREVIOUS EDITION:

NOTE 53: THE FOLLOWING CHANGES WERE MADE TO THE PREVIOUS EDITION:

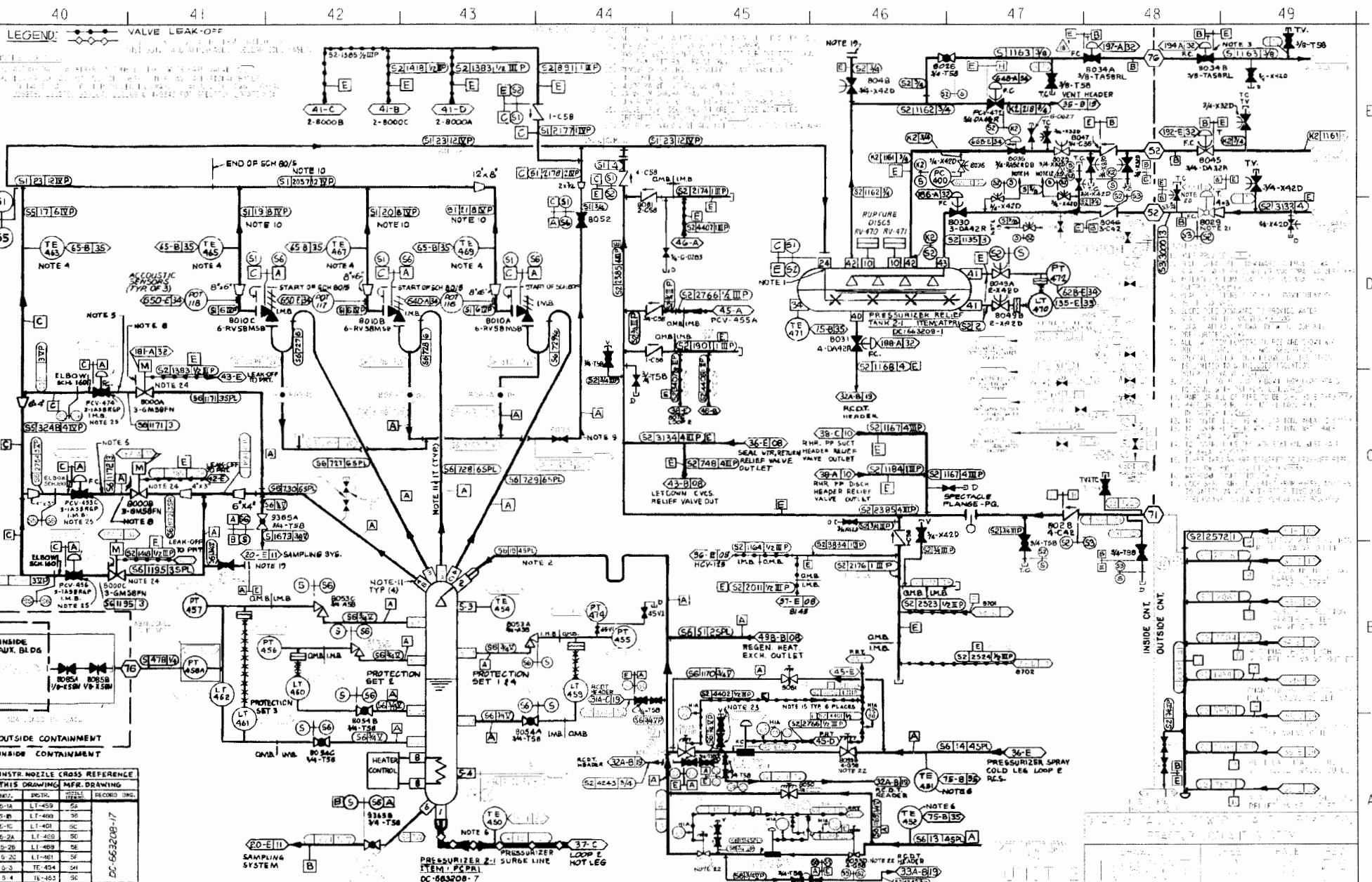
NOTE 54: THE FOLLOWING CHANGES WERE MADE TO THE PREVIOUS EDITION:

NOTE 55: THE FOLLOWING CHANGES WERE MADE TO THE PREVIOUS EDITION:

NOTE 56: THE FOLLOWING CHANGES WERE MADE TO THE PREVIOUS EDITION:

NOTE 57: THE FOLLOWING CHANGES WERE MADE TO THE PREVIOUS EDITION:

NOTE 58: THE FOLLOWING CHANGES WERE MADE TO THE PREVIOUS EDITION:



INSTR. NOZZLE CROSS REFERENCE	THIS DRAWING	MFR. DRAWING
65-B135	LT-459	SA
65-B136	LT-460	SB
65-B137	LT-461	SC
65-B138	LT-462	SD
65-B139	LT-463	SE
65-B140	LT-464	SF
65-B141	LT-465	SG
65-B142	LT-466	SH
65-B143	LT-467	SI
65-B144	LT-468	SJ
65-B145	LT-469	SK
65-B146	LT-470	SL
65-B147	LT-471	SM
65-B148	LT-472	SN
65-B149	LT-473	SO
65-B150	LT-474	SP
65-B151	LT-475	SQ
65-B152	LT-476	SR
65-B153	LT-477	SS
65-B154	LT-478	ST
65-B155	LT-479	SV
65-B156	LT-480	SW
65-B157	LT-481	TX
65-B158	LT-482	TY
65-B159	LT-483	TA
65-B160	LT-484	TE
65-B161	LT-485	TF
65-B162	LT-486	TD
65-B163	LT-487	TH
65-B164	LT-488	TI
65-B165	LT-489	TO
65-B166	LT-490	TP
65-B167	LT-491	TR
65-B168	LT-492	TS
65-B169	LT-493	TT
65-B170	LT-494	TV
65-B171	LT-495	TV
65-B172	LT-496	TV
65-B173	LT-497	TV
65-B174	LT-498	TV
65-B175	LT-499	TV
65-B176	LT-500	TV
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65-B180	LT-504	TV
65-B181	LT-505	TV
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65-B184	LT-508	TV
65-B185	LT-509	TV
65-B186	LT-510	TV
65-B187	LT-511	TV
65-B188	LT-512	TV
65-B189	LT-513	TV
65-B190	LT-514	TV
65-B191	LT-515	TV
65-B192	LT-516	TV
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65-B196	LT-520	TV
65-B197	LT-521	TV
65-B198	LT-522	TV
65-B199	LT-523	TV
65-B200	LT-524	TV

DC 66320B-17

DC 66320B-17

DC 66320B-17

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DC 66320B-17

DC 66320B-17

DC 66320B-17

NOTES: (CONT'D)

12. 1" GLOBE VALVE, ANCHOR DARLING 1878
STOCK CODE # 94-5771, DWG. 6006473-157 (32-D), (37-E), (33-B)

13. 3/4" GLOBE VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2820, DWG. 6006473-97 (32-D), (34-A)

14. 3/4" GLOBE VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2765, DWG. 6006473-97 (32-D)

15. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2821, DWG. 6006473-97 (32-D)

16. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2822, DWG. 6006473-97 (32-D)

17. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2823, DWG. 6006473-97 (32-D)

18. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2824, DWG. 6006473-97 (32-D)

19. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2825, DWG. 6006473-97 (32-D)

20. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2826, DWG. 6006473-97 (32-D)

21. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2827, DWG. 6006473-97 (32-D)

22. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2828, DWG. 6006473-97 (32-D)

23. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2829, DWG. 6006473-97 (32-D)

24. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2830, DWG. 6006473-97 (32-D)

25. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2831, DWG. 6006473-97 (32-D)

26. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2832, DWG. 6006473-97 (32-D)

27. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2833, DWG. 6006473-97 (32-D)

28. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2834, DWG. 6006473-97 (32-D)

29. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2835, DWG. 6006473-97 (32-D)

30. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2836, DWG. 6006473-97 (32-D)

31. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2837, DWG. 6006473-97 (32-D)

32. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2838, DWG. 6006473-97 (32-D)

33. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2839, DWG. 6006473-97 (32-D)

34. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2840, DWG. 6006473-97 (32-D)

35. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2841, DWG. 6006473-97 (32-D)

36. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2842, DWG. 6006473-97 (32-D)

37. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2843, DWG. 6006473-97 (32-D)

38. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2844, DWG. 6006473-97 (32-D)

39. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2845, DWG. 6006473-97 (32-D)

40. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2846, DWG. 6006473-97 (32-D)

41. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2847, DWG. 6006473-97 (32-D)

42. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2848, DWG. 6006473-97 (32-D)

43. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2849, DWG. 6006473-97 (32-D)

44. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2850, DWG. 6006473-97 (32-D)

45. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2851, DWG. 6006473-97 (32-D)

46. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2852, DWG. 6006473-97 (32-D)

47. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2853, DWG. 6006473-97 (32-D)

48. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2854, DWG. 6006473-97 (32-D)

49. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2855, DWG. 6006473-97 (32-D)

50. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2856, DWG. 6006473-97 (32-D)

51. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2857, DWG. 6006473-97 (32-D)

52. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2858, DWG. 6006473-97 (32-D)

53. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2859, DWG. 6006473-97 (32-D)

54. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2860, DWG. 6006473-97 (32-D)

55. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2861, DWG. 6006473-97 (32-D)

56. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2862, DWG. 6006473-97 (32-D)

57. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2863, DWG. 6006473-97 (32-D)

58. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2864, DWG. 6006473-97 (32-D)

59. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2865, DWG. 6006473-97 (32-D)

60. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2866, DWG. 6006473-97 (32-D)

61. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2867, DWG. 6006473-97 (32-D)

62. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2868, DWG. 6006473-97 (32-D)

63. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2869, DWG. 6006473-97 (32-D)

64. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2870, DWG. 6006473-97 (32-D)

65. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2871, DWG. 6006473-97 (32-D)

66. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2872, DWG. 6006473-97 (32-D)

67. 3/4" CHECK VALVE, ANCHOR DARLING 1878 GB
STOCK CODE # 94-2873, DWG. 6006473-97 (32-D)

EXCESS LETDOWN
HEAT EXCH. 2-1
DC-663210-12

EXCESS LETDOWN
HEAT EXCH. 2-1
DC-663210-12

EXCESS LETDOWN
HEAT EXCH. 2-1
DC-663210-12

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EXCESS LETDOWN
HEAT EXCH. 2-1
DC-663210-12

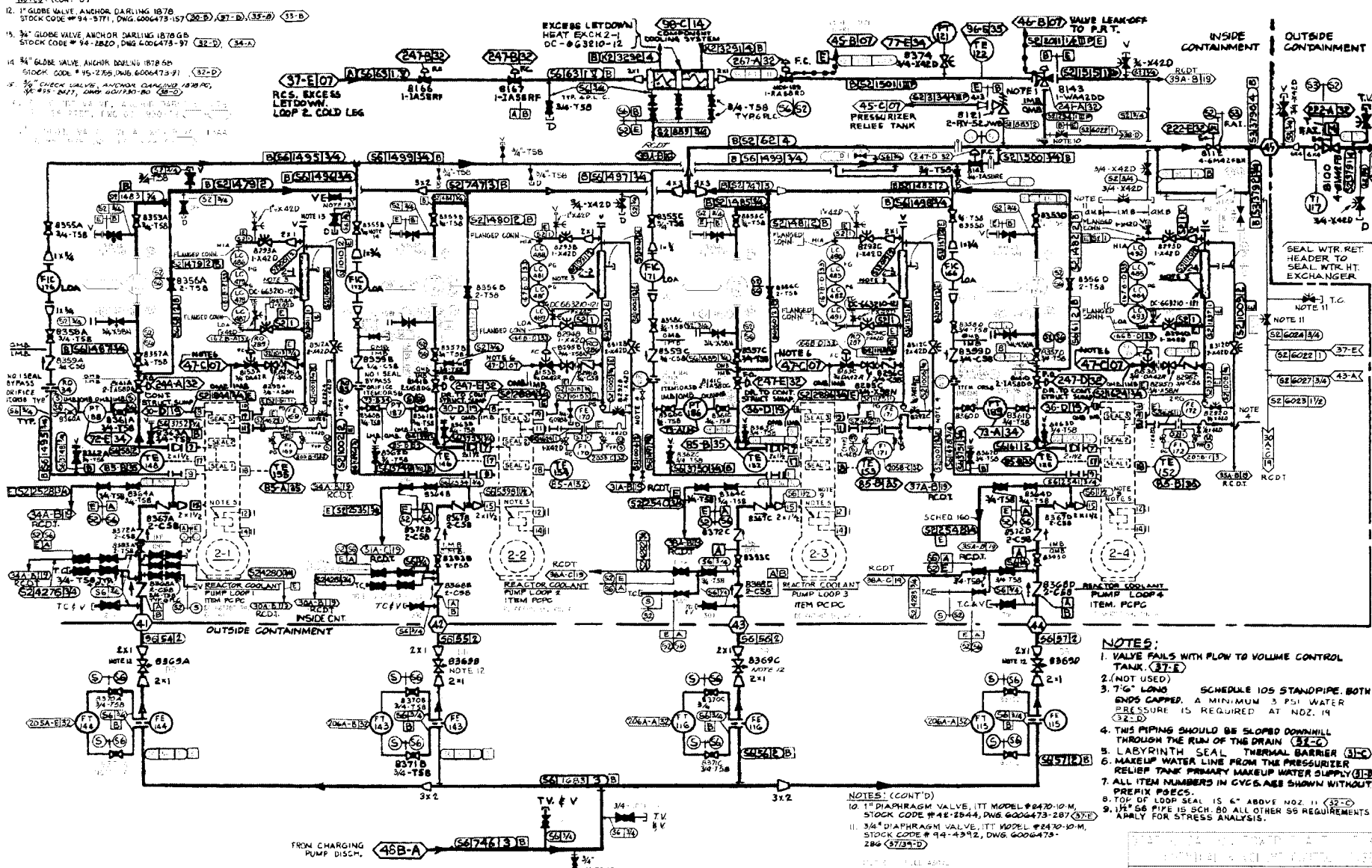
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HEAT EXCH. 2-1
DC-663210-12

EXCESS LETDOWN
HEAT EXCH. 2-1
DC-663210-12

EXCESS LETDOWN
HEAT EXCH. 2-1
DC-663210-12

EXCESS LETDOWN
HEAT EXCH. 2-1
DC-663210-12

EXCESS LETDOWN
HEAT EXCH. 2-1
DC-663210-12



NOTES: (CONT'D)

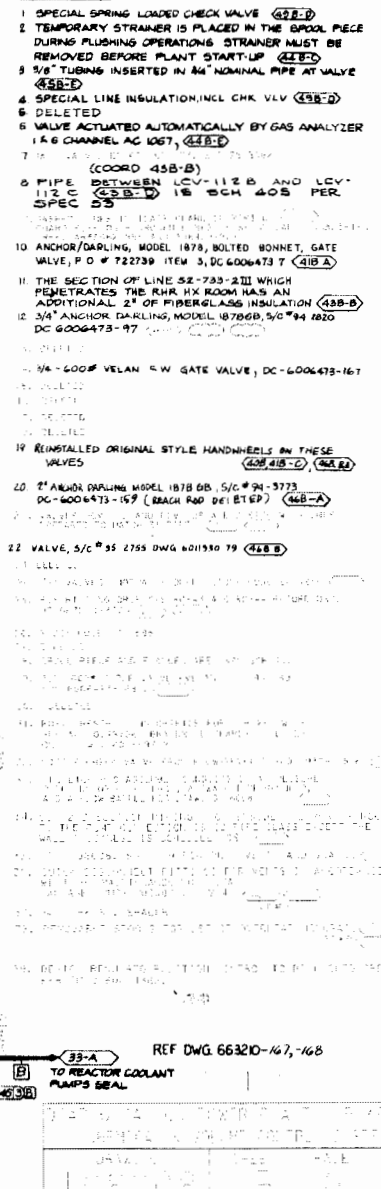
10. 1" DIAPHRAGM VALVE, ITT MODEL # 2470-10-M,
STOCK CODE # 94-2844, DWG. 6006473-287 (37-E)

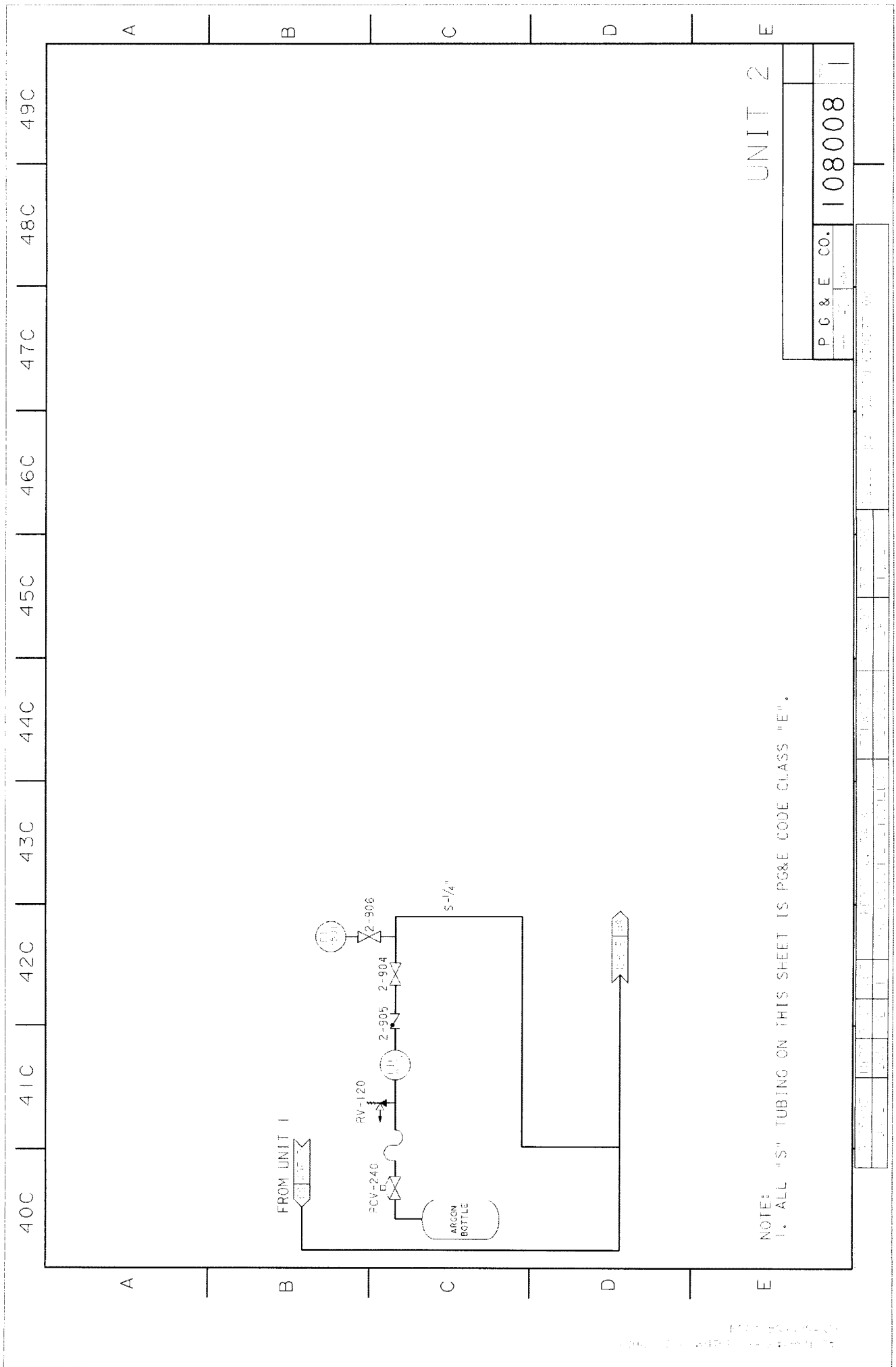
11. 3/4" DIAPHRAGM VALVE, ITT MODEL # 2470-10-M,
STOCK CODE # 94-4392, DWG. 6006473-289 (37-E)

NOTES:

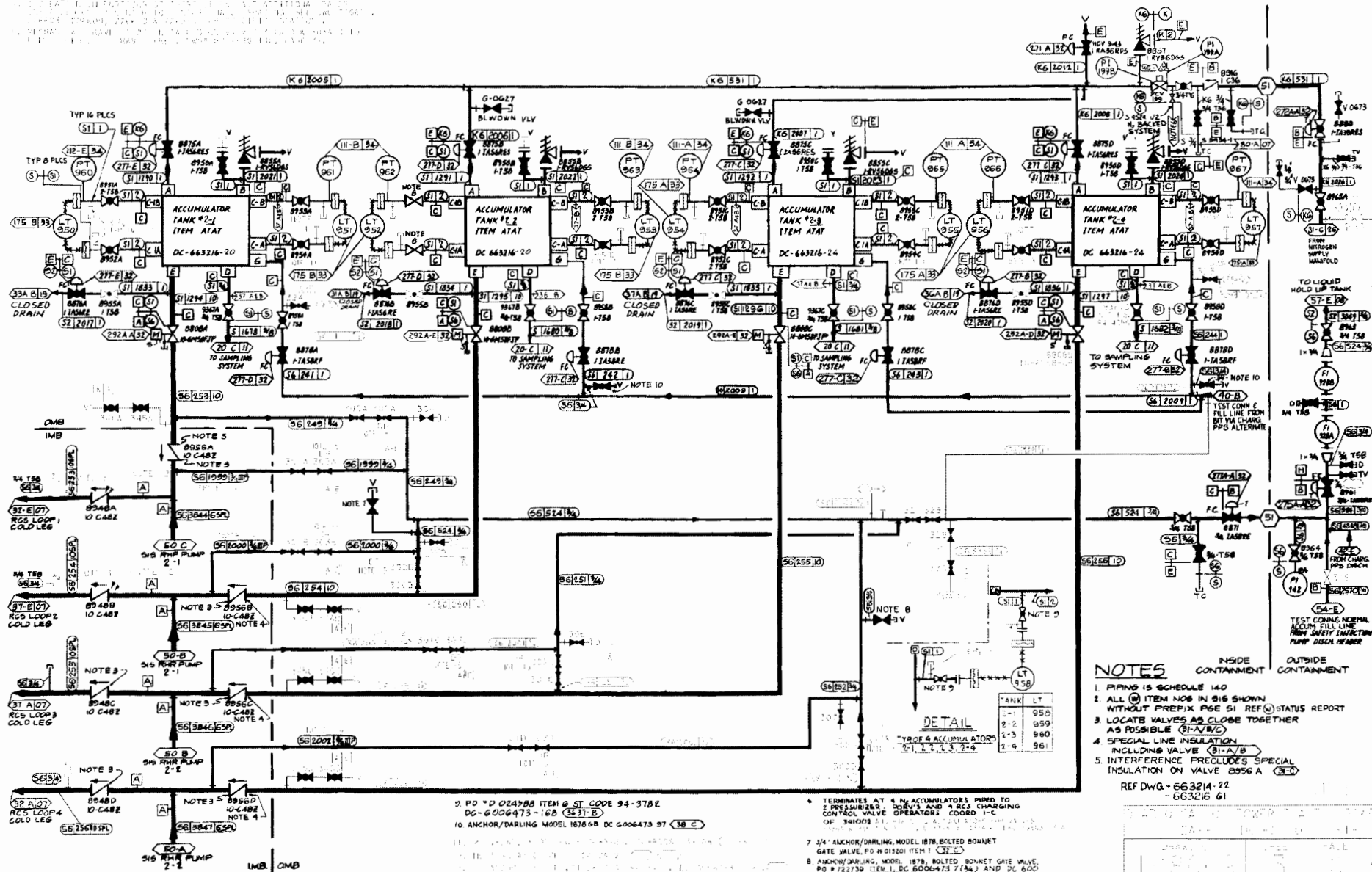
1. VALVE FAILS WITH FLOW TO VOLUME CONTROL TANK. (37-E)
2. (NOT USED)
3. 7'-6" LONG SCHEDULE 10S STANDPIPE. BOTH ENDS CAPPED. A MINIMUM 3 PSI WATER PRESSURE IS REQUIRED AT NOZ. 19 (32-D)
4. THIS PIPING SHOULD BE SLOPED DOWNHILL THROUGH THE RUN OF THE DRAIN (37-E)
5. LABYRINTH SEAL THERMAL BARRIER (37-E)
6. MAKEUP WATER LINE FROM THE PRESSURIZER RELIEF TANK PRIMARY MAKEUP WATER SUPPLY (37-E)
7. ALL ITEM NUMBERS IN CYCLES ARE SHOWN WITHOUT PREPFX POSCS.
8. TOP OF LOOP SEAL IS 6" ABOVE NOZ. 11 (32-D)
9. 1/2" 66 PIPE IS SCH. 80 ALL OTHER 55 REQUIREMENTS APPLY FOR STRESS ANALYSIS.

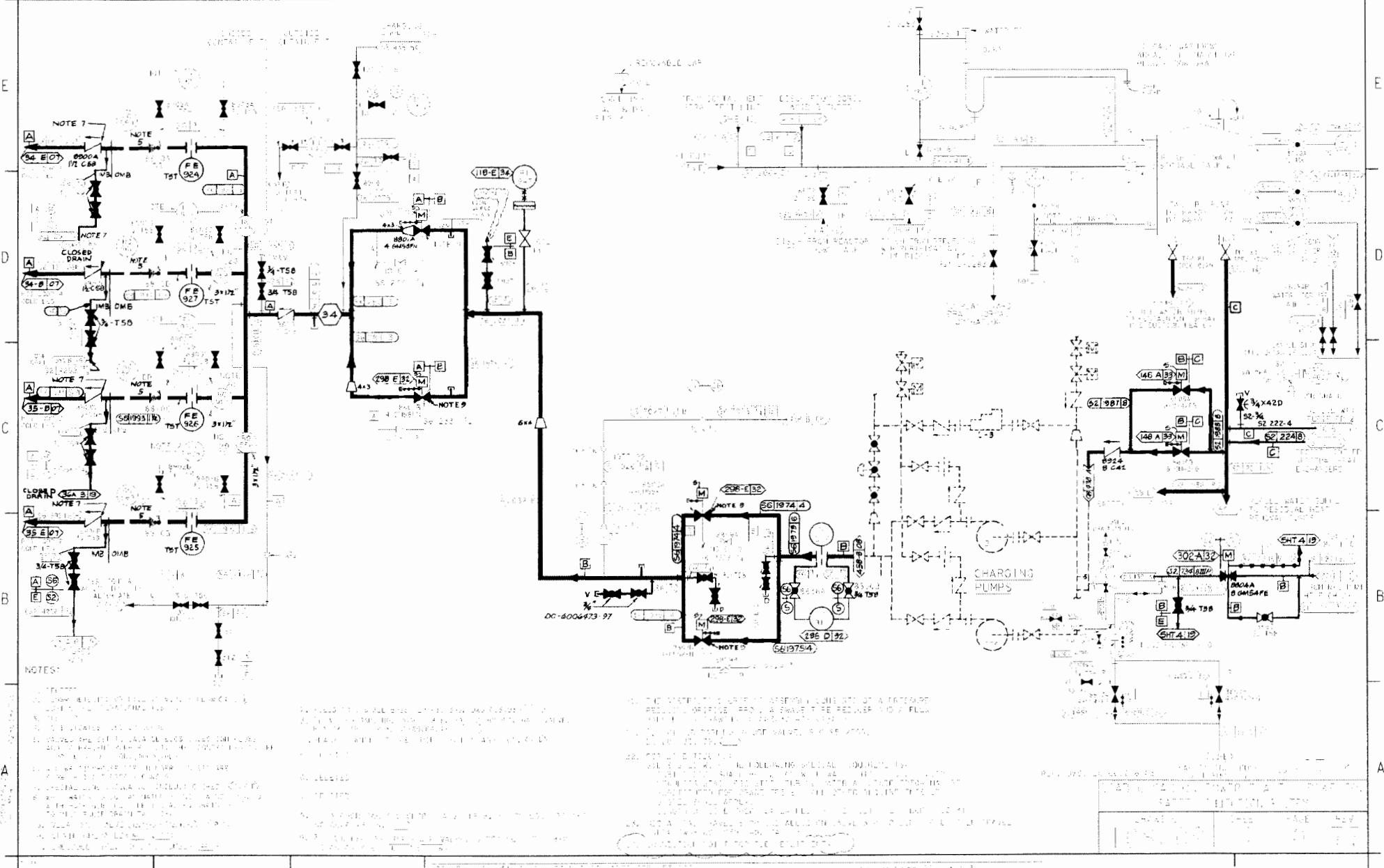
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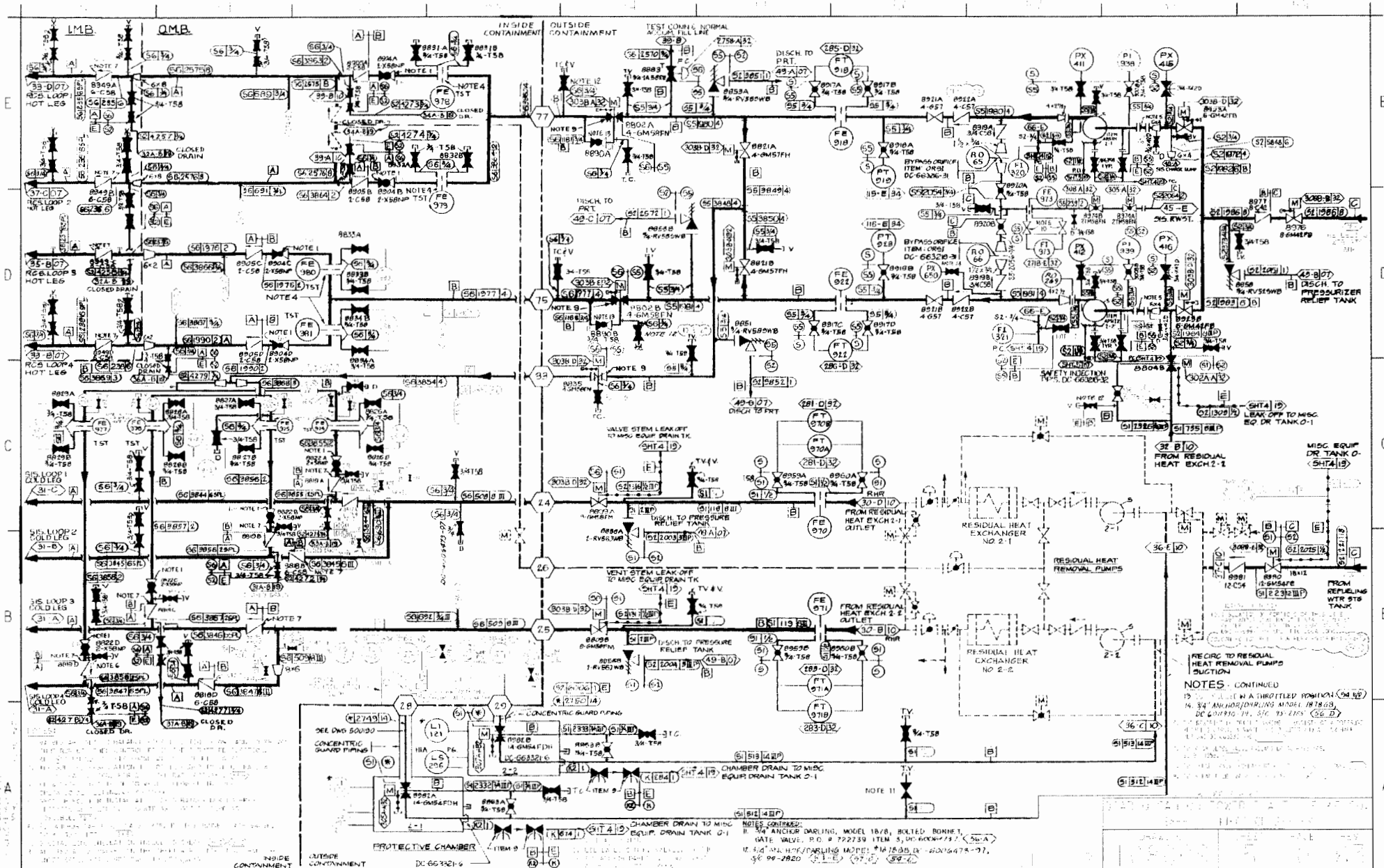




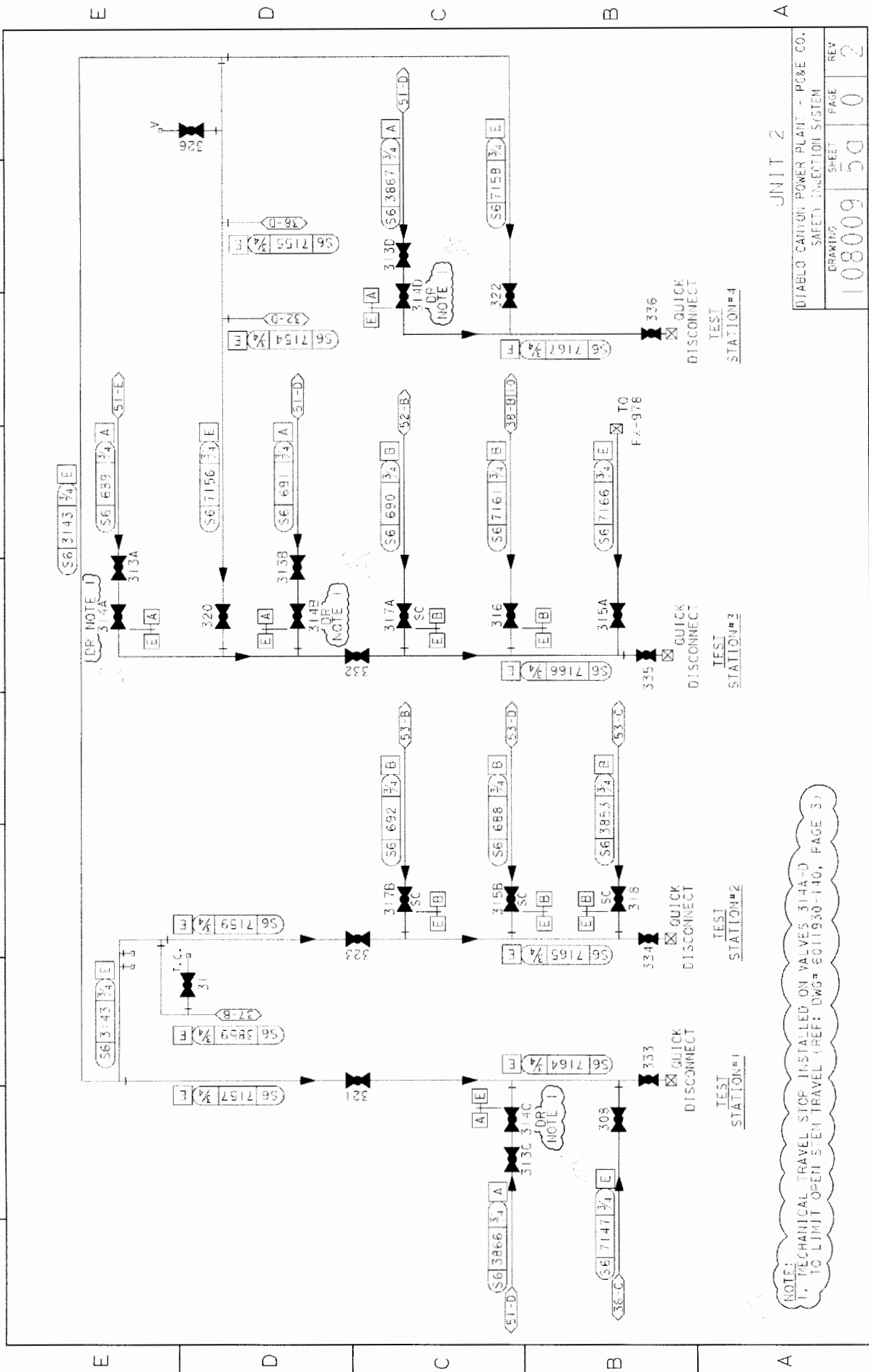
1. THIS DRAWING IS THE PROPERTY OF THE U.S. GOVERNMENT AND IS TO BE USED FOR THE PURPOSES OF THE CONTRACT ONLY. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE U.S. GOVERNMENT.





[illegible]

50A | 51A | 52A | 53A | 54A | 55A | 56A | 57A | 58A | 59A



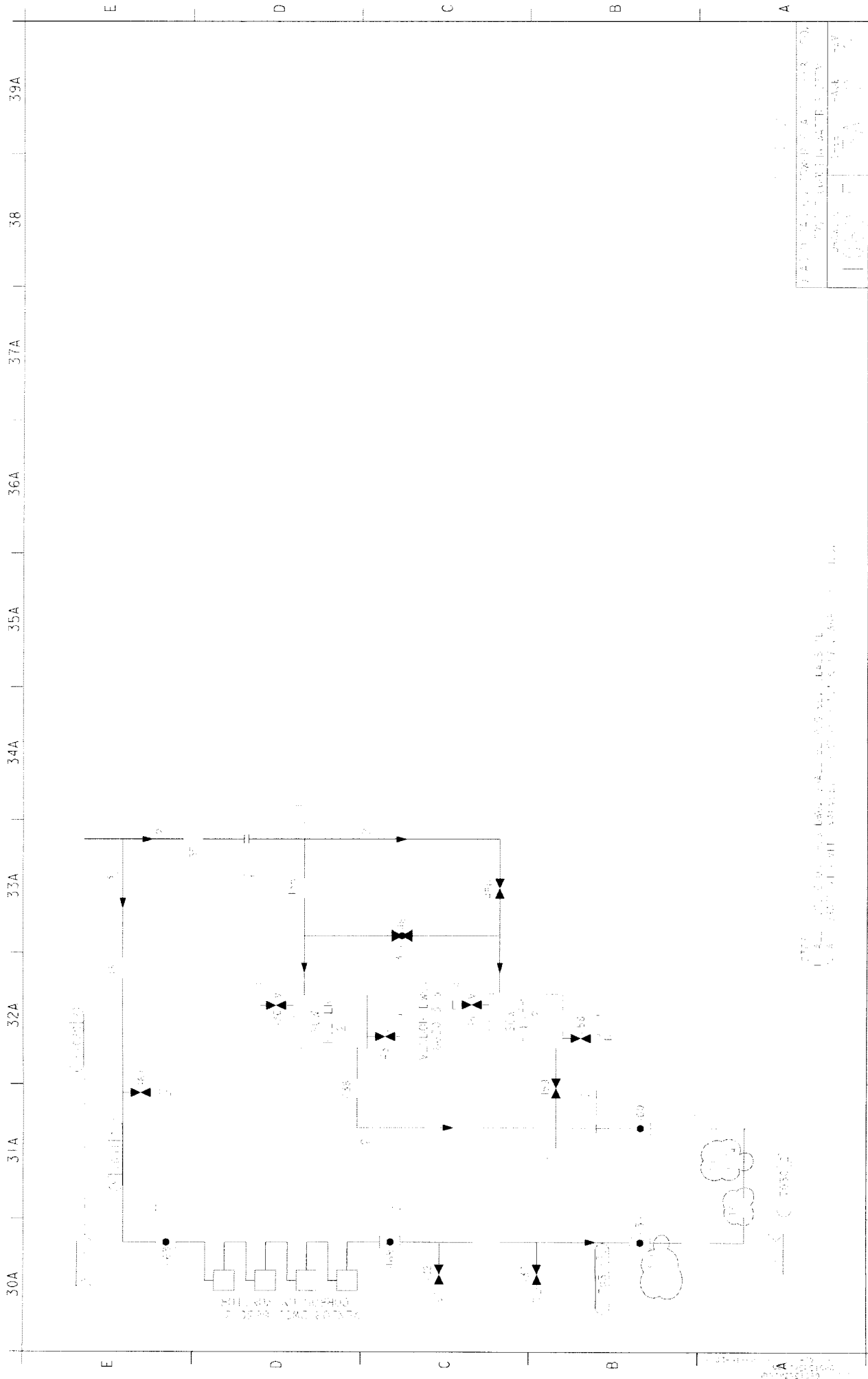
NOTE:
1. MECHANICAL TRAVEL STOP INSTALLED ON VALVES 314A-D
TO LIMIT OPEN STEM TRAVEL (REF: DWG# 6011930-140, PAGE 3)

UNIT 2

DIABLO CANYON POWER PLANT - P&ID CO.	
SAFETY INJECTION SYSTEM	
DRAWING	SHEET
108009	50
REV	PAGE
0	2

05-6-2011 AUFJFXC2 REPT J. DALAL MECHANICAL H 16690 3-3-2012 REVISED FOR DDN-2-704

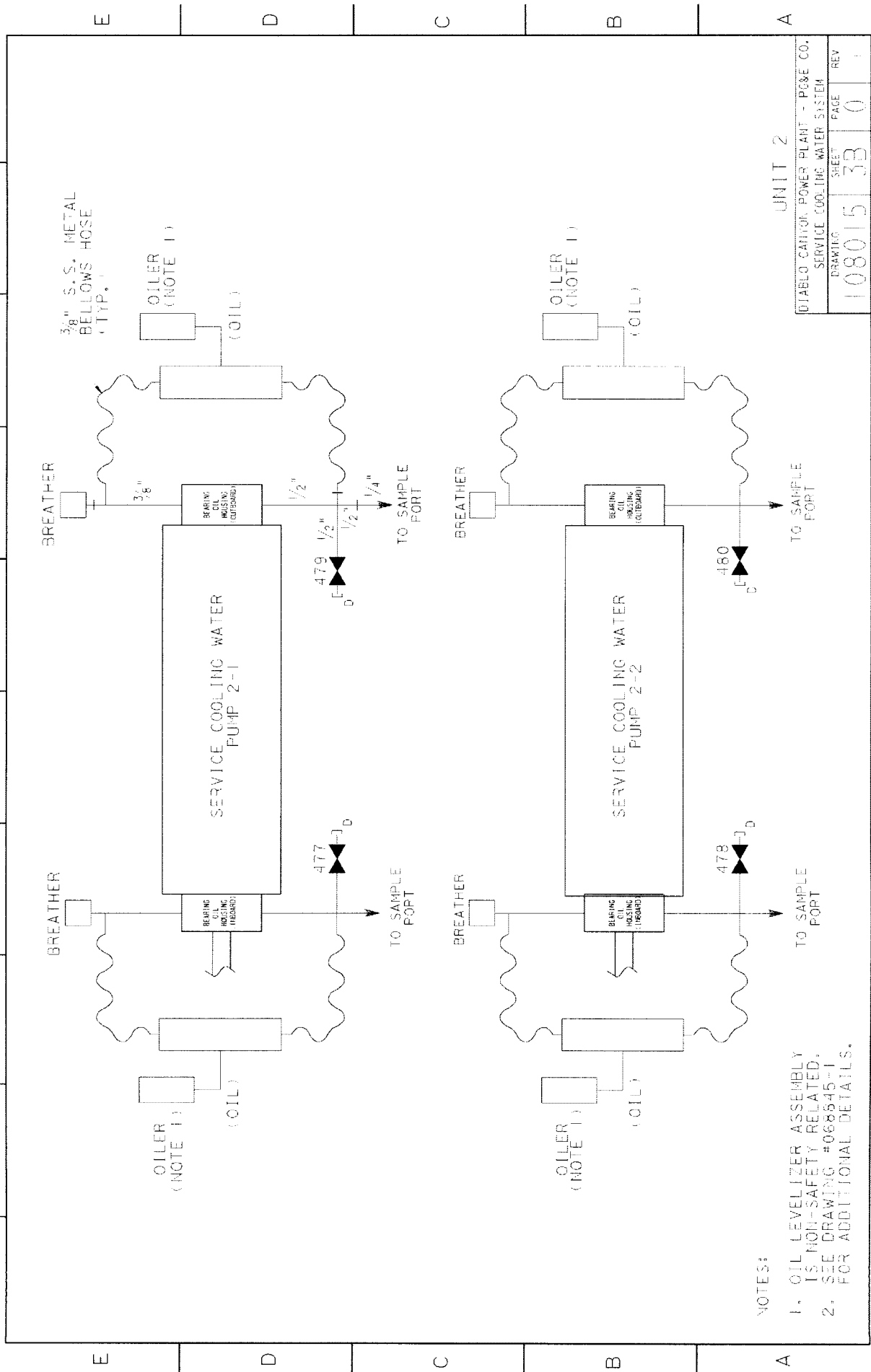
1/2" = 1'



DATE	2000-07-10
BY	W. J. J. J.
FOR	W. J. J. J.
PROJECT	W. J. J. J.
REVISION	W. J. J. J.
APPROVED	W. J. J. J.

Process Flow Diagram
 Section 30A to 34A
 Equipment and Piping
 W. J. J. J.

W. J. J. J.
 W. J. J. J.
 W. J. J. J.



UNIT 2

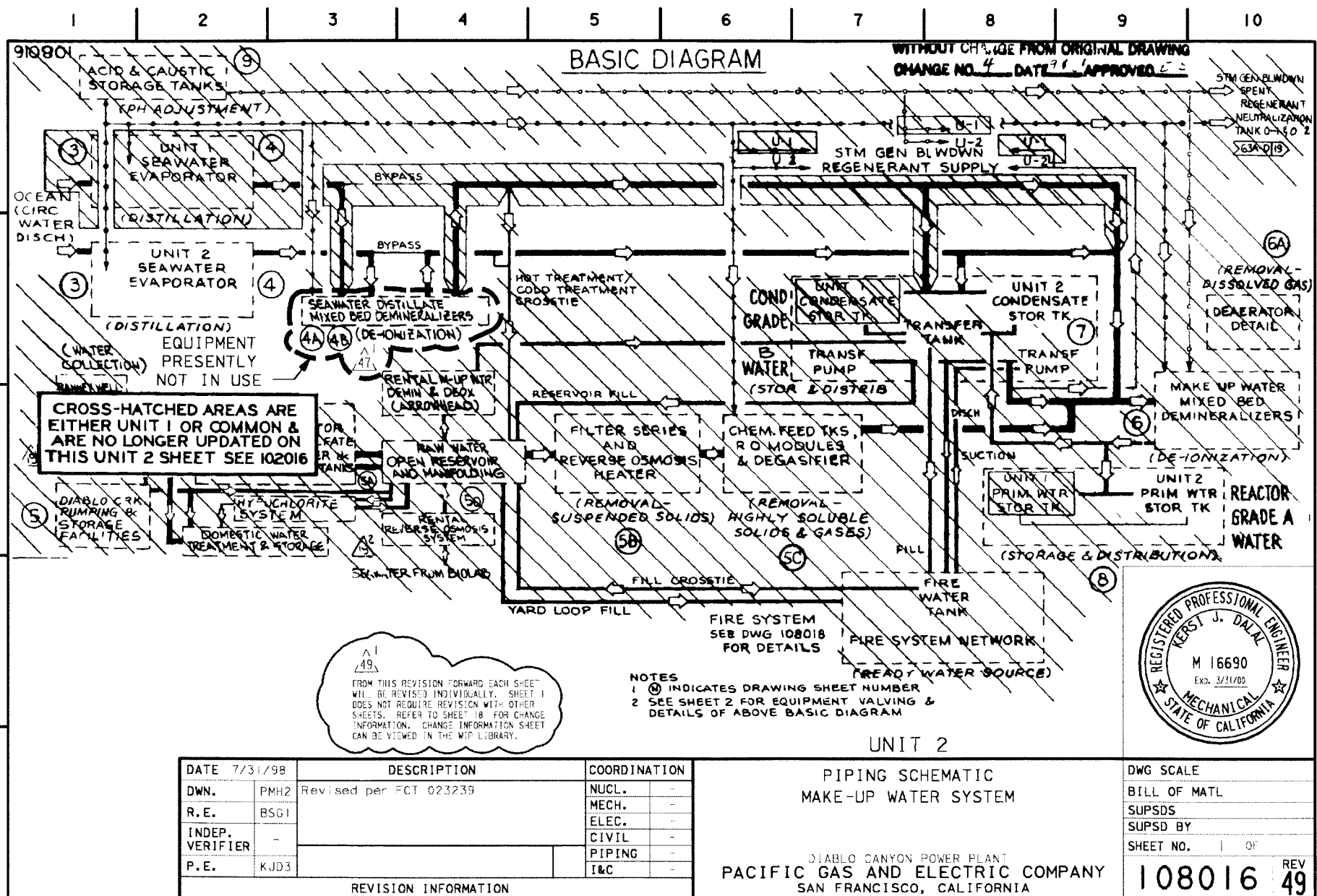
DIABLO CANYON POWER PLANT - P&E CO.	
SERVICE COOLING WATER SYSTEM	
DRAWING	REV
108015	0

DRAWING	SHEET	PAGE	REV
108015	33	0	1

NOTES:
1. OIL
2. SER FOR

05-25-2011	AFJFXC2	REFST J. DALAL	MECHANICAL	M 1690	3/3/2012	INITIAL ISSUE PER DFT-2	164
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05-10801533B.dgn
05-10801533B.dgn



170 171 172 173 174 175 176 177 178 179

E

D

C

B

A

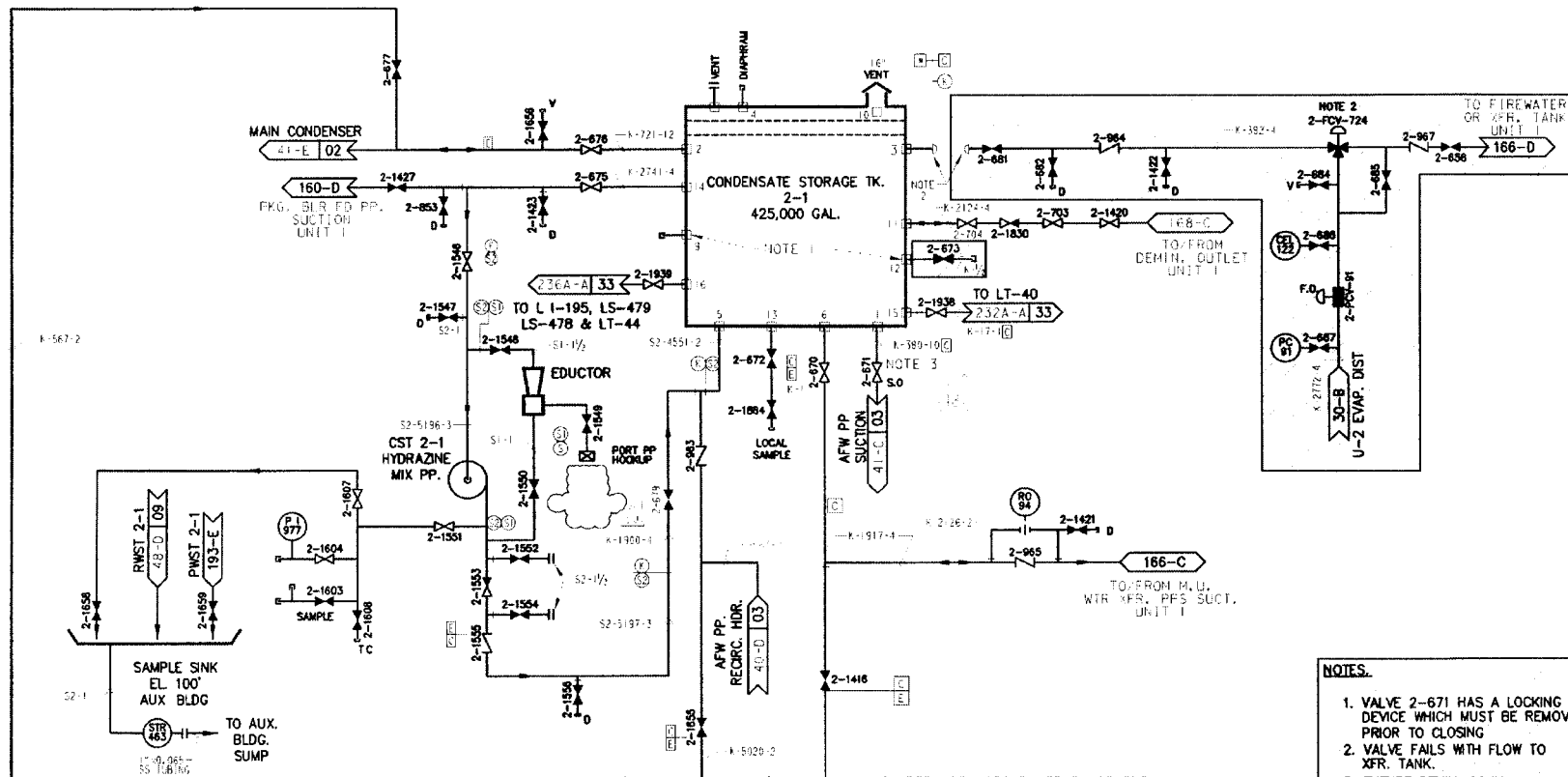
E

D

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A



- NOTES:
1. VALVE 2-671 HAS A LOCKING DEVICE WHICH MUST BE REMOVED PRIOR TO CLOSING
 2. VALVE FAILS WITH FLOW TO XFR. TANK.
 3. FUTURE DEMIN. CONN.
 4. SHADED AREAS ABANDONED EQUIP

SHADED AREA ABANDONED EQUIPMENT

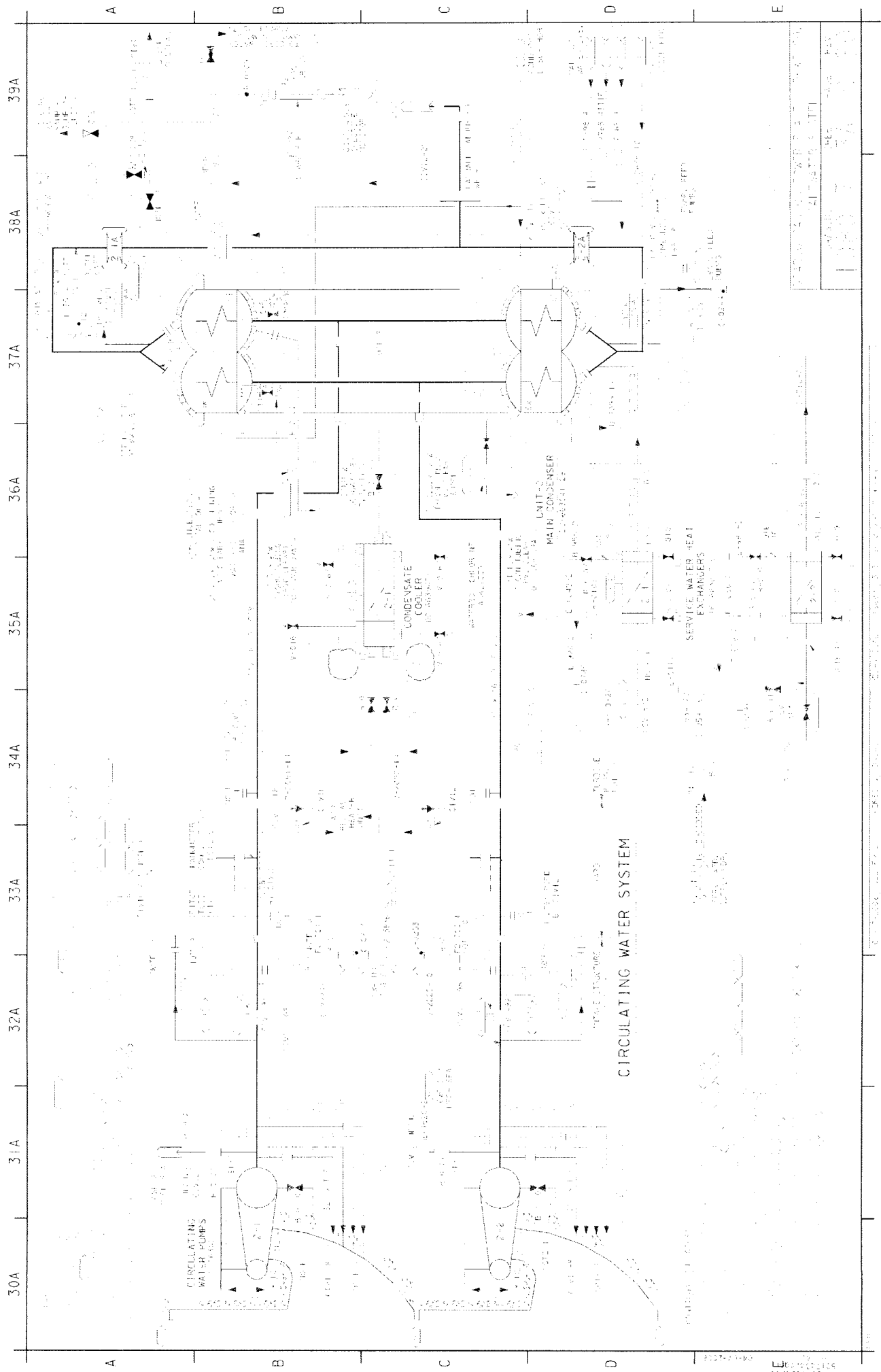
- NOTES:
1. NOZZLES 9 & 12 ARE PLUGGED INSIDE TANK.
 2. NOZZLE NO. 15 IS PLUGGED (BLIND PLATE WELDED INSIDE PIPE) AND ABANDONED LINE K-362-4 IS CAPPED AND BOTH ARE EMBEDDED.
 3. VALVE 2-671 HAS A LOCKING DEVICE WHICH MUST BE REMOVED PRIOR TO CLOSING.

UNIT 2

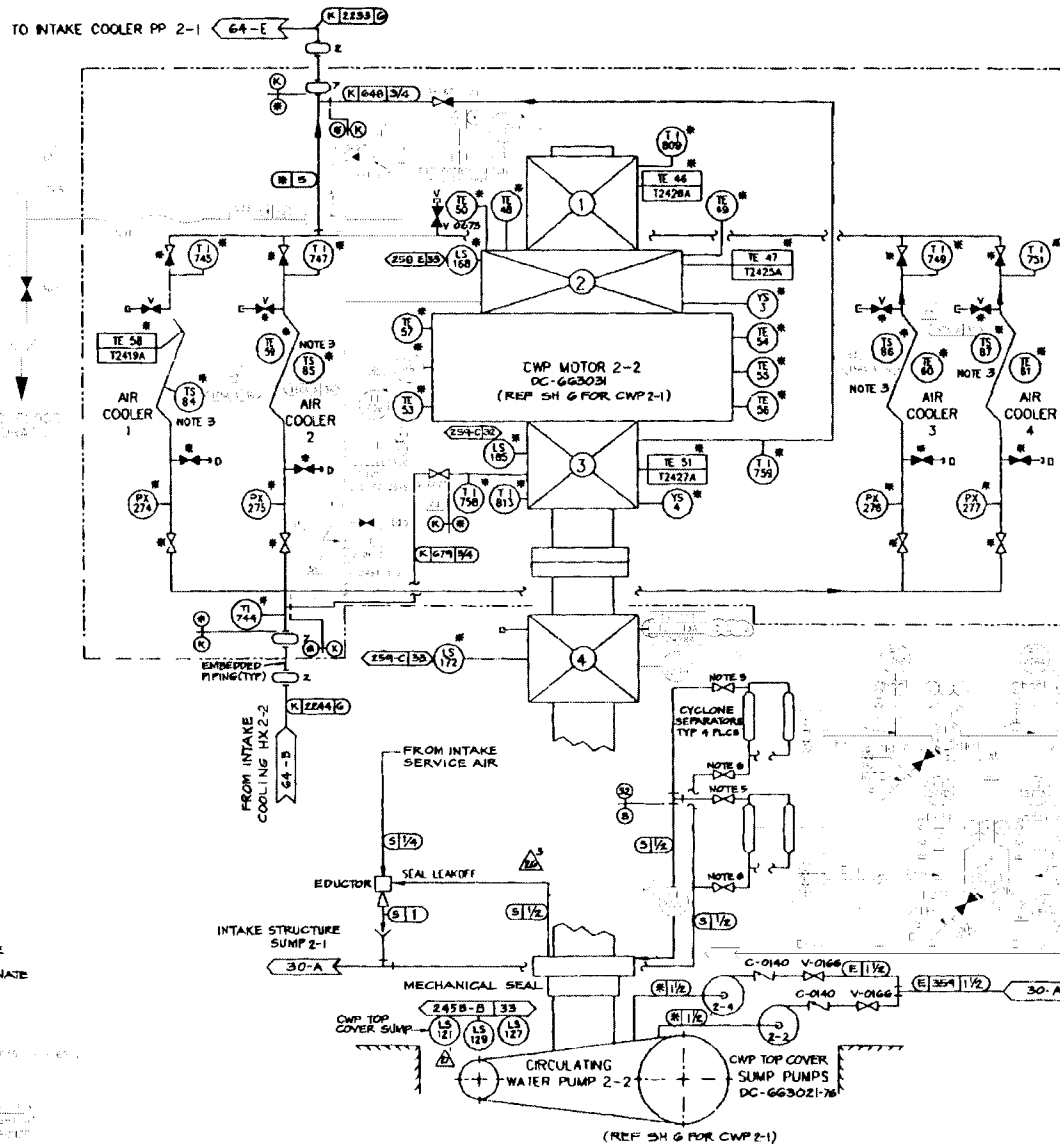
DIABLO CANYON POWER PLANT - P&S&E CO.			
MAKE-UP WATER SYSTEM			
DRAWING	SHEET	PAGE	REV
108016	17	0	50

03-10-2015	ZNS4 Fxc2	SWR2 NOT REQUIRED PER CF3.106	-	-	-	REVISED PER DFT-7*2867
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108016sl7.dgn
108016sl7.dgn
03-10-2015
ZNS4



60A 61A 62A 63A 64A 65A 66A 67A 68A 69A



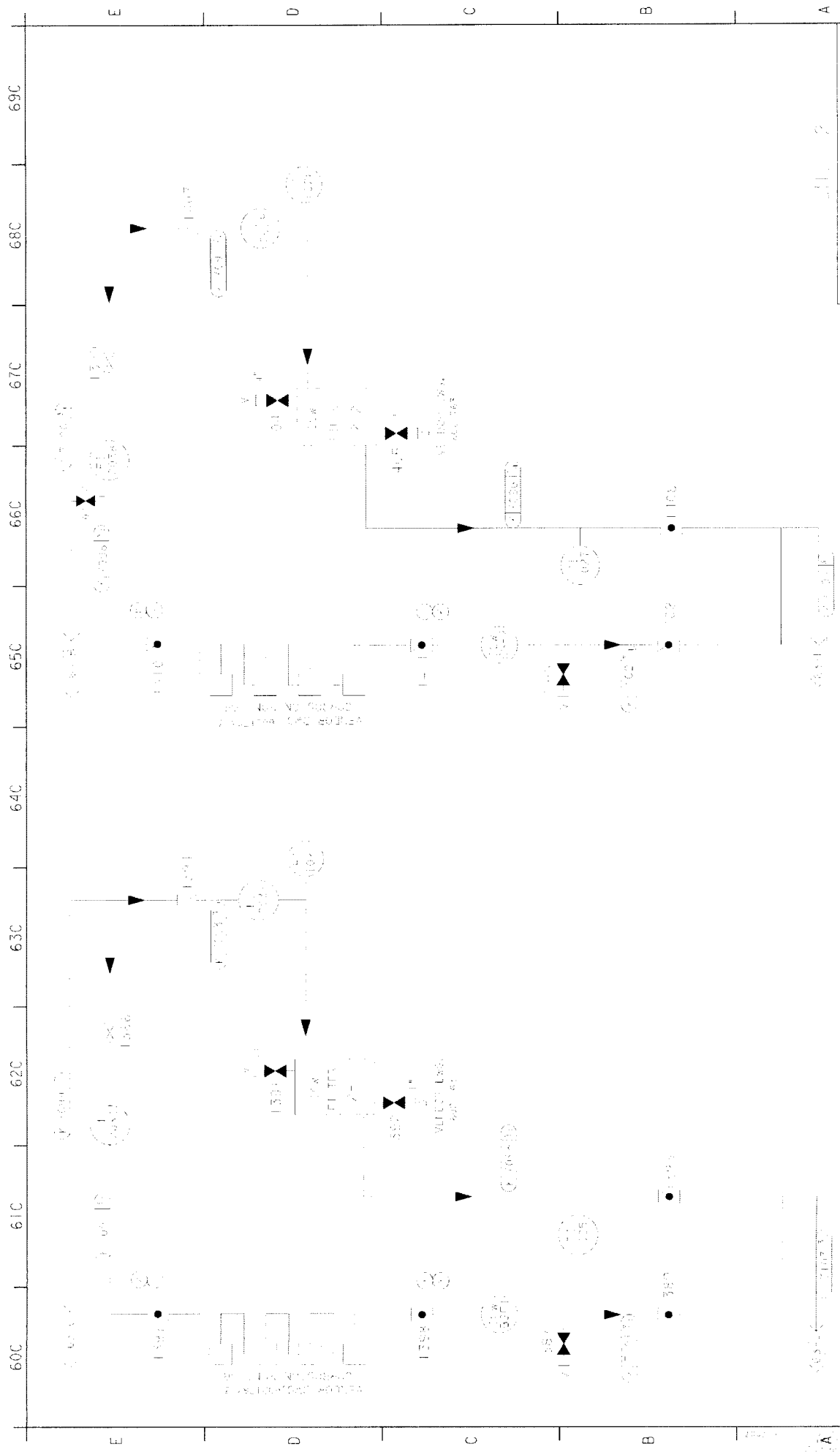
BEARING DESIGNATION

- ① TOP GUIDE BEARING
- ② TOP THRUST BEARING
- ③ BOTTOM GUIDE BEARING
- ④ PUMP GUIDE BEARING

NOTES

- 1 ALL PIPING ON THIS SHEET ARE PS ARE CLASS 'E' UNLESS OTHERWISE NOTED
- 2 VENT AND DRAIN VALVES WITH PS ARE VALVE NOS ARE 3/4" IN SIZE EXCEPT AS NOTED
- 3 USED FOR CARBOX FIRE PROTECTION SYS PS ARE RECORD NO DC 66303G AND MULTI-VARIABLE INST SYS PWS 10203G, SMTS 319 & 31C
- 4 3/4" FLEX ROSE CONNECTION IS FOR ALTERNATE WATER SUPPLY SOURCE TO CWP 2-2 SEAL DURING DEMURSING ONLY IN-SERVICE PUMP AS ALTERNATE SOURCE WILL SUPPLY WATER TO BOTH CWP'S MECHANICAL SEALS (62K-B)
- 5 GATE VALVE (LADISH MODEL 8252) (62K-B)
- 6 BALL VALVE (WHITNEY 448G) (62A-B)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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1. 检查各零件的尺寸是否符合要求。	2. 检查各零件的装配顺序是否正确。	3. 检查各零件的装配位置是否正确。	4. 检查各零件的装配质量是否符合要求。
1. 检查各零件的尺寸是否符合要求。	2. 检查各零件的装配顺序是否正确。	3. 检查各零件的装配位置是否正确。	4. 检查各零件的装配质量是否符合要求。

Technical drawing of a mechanical assembly, likely a pump or engine component. The drawing is oriented vertically with a coordinate grid from 60C to 69C and A to E.

Key Components and Dimensions:

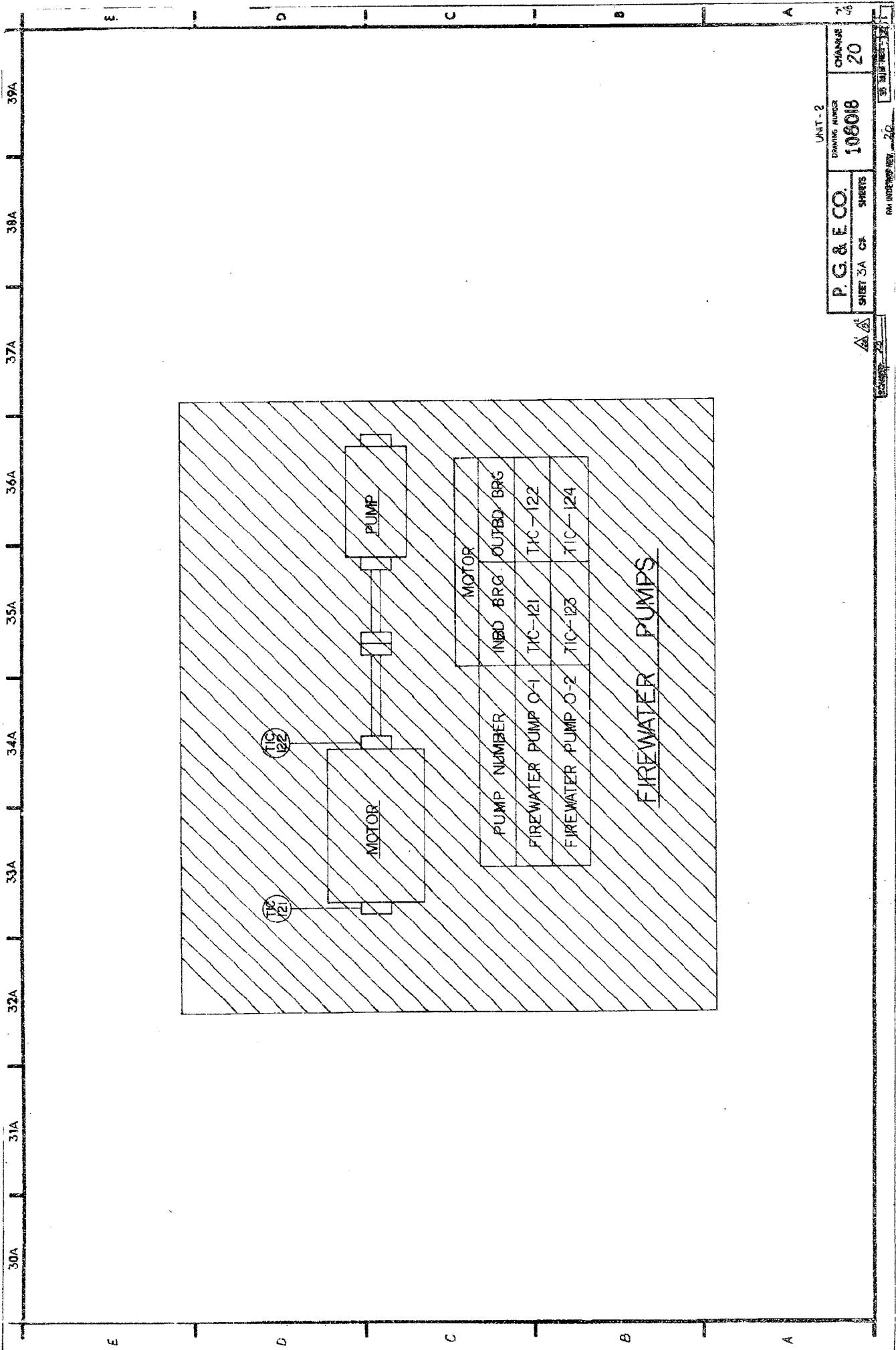
- Top Section (69C):** Dimensions 1.1007, 1.1007, 1.1007.
- 68C:** Dimensions 1.1007, 1.1007, 1.1007.
- 67C:** Dimensions 1.1007, 1.1007, 1.1007.
- 66C:** Dimensions 1.1007, 1.1007, 1.1007.
- 65C:** Dimensions 1.1007, 1.1007, 1.1007.
- 64C:** Dimensions 1.1007, 1.1007, 1.1007.
- 63C:** Dimensions 1.1007, 1.1007, 1.1007.
- 62C:** Dimensions 1.1007, 1.1007, 1.1007.
- 61C:** Dimensions 1.1007, 1.1007, 1.1007.
- 60C:** Dimensions 1.1007, 1.1007, 1.1007.

Assembly Instructions:

1. 检查各零件的尺寸是否符合要求。
2. 检查各零件的装配顺序是否正确。
3. 检查各零件的装配位置是否正确。
4. 检查各零件的装配质量是否符合要求。

Notes:

1. 检查各零件的尺寸是否符合要求。
2. 检查各零件的装配顺序是否正确。
3. 检查各零件的装配位置是否正确。
4. 检查各零件的装配质量是否符合要求。



UNIT - 2

DRAWING NUMBER

108018

CHANGE

20

SHEETS

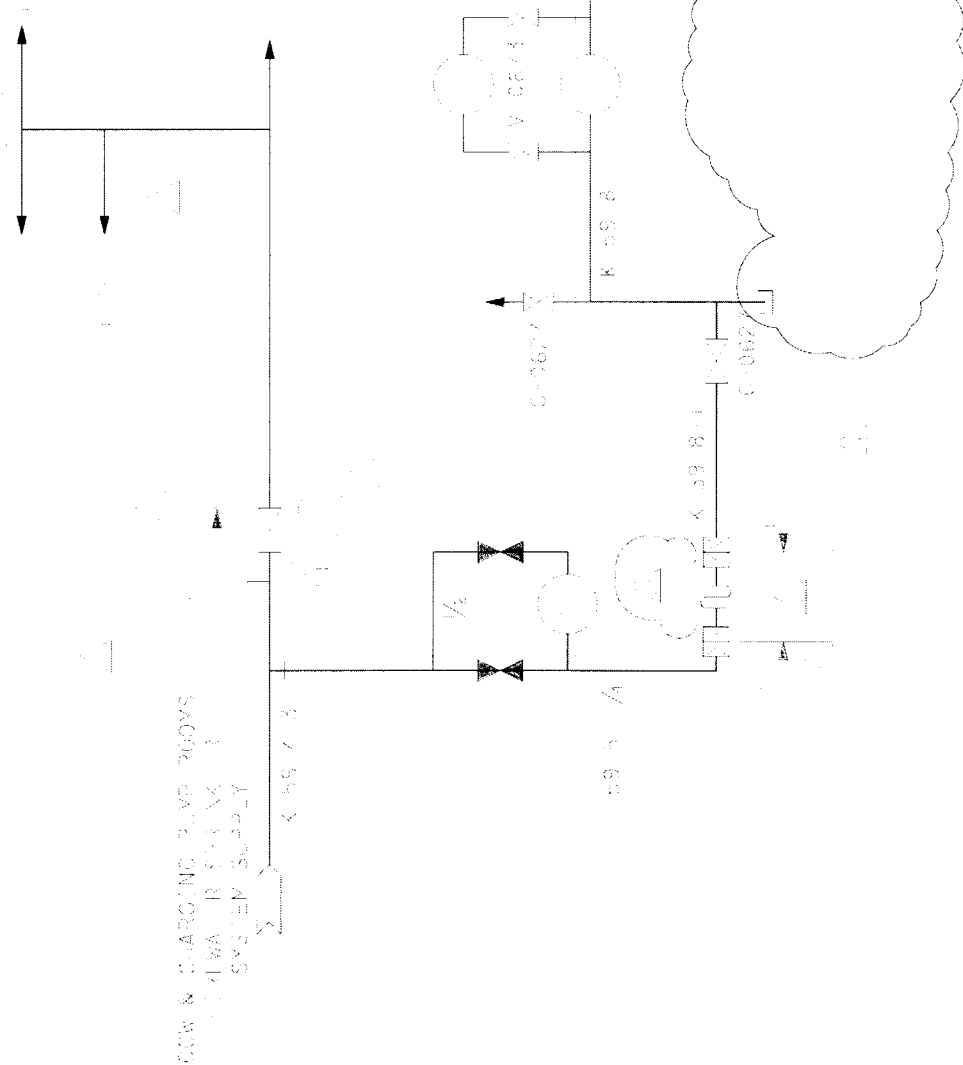
SHEET 3A OF

RM INDEXED BY 20

50A 51A 52A 53A 54A 55A 56A 57A 58A 59A

NOTES:

1. ALL PUMP AND VALVE INSTALLATION VALVES SHALL BE INSTALLED TO THE REQUIREMENTS OF THE SHIP'S QUALITY CONTROL REQUIREMENTS.
2. FOR CONNECTION OF PUMP TO SYSTEM, THE PUMP SHALL BE INSTALLED TO THE SYSTEM WITH THE PUMP AND CHARGING PUMP (CUMS).
3. VALVE IS CONNECTED TO VALVE 0.
4. VALVE IS ON MAIN LINE TO SYSTEM.
5. FOR PUMP AND VALVE INSTALLATION, THE PUMP SHALL BE INSTALLED TO THE SYSTEM WITH THE PUMP AND CHARGING PUMP (CUMS).
6. FOR PUMP AND VALVE INSTALLATION, THE PUMP SHALL BE INSTALLED TO THE SYSTEM WITH THE PUMP AND CHARGING PUMP (CUMS).



CHARGING PUMPS, SFAI & FUEL OIL COOLERS
EMERGENCY TIE-IN FROM AUX. 31DG. FIRE PROTECTION SYSTEM

UNIT 2

P. G. & E. CO. 1080 18 29

60A

61A

62A

63A

64A

65A

66A

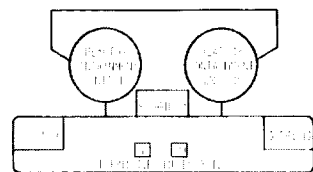
67A

68A

69A

A

A



HOSEREEL LOCATIONS
PLOT PLAN

B

B

C

C

D

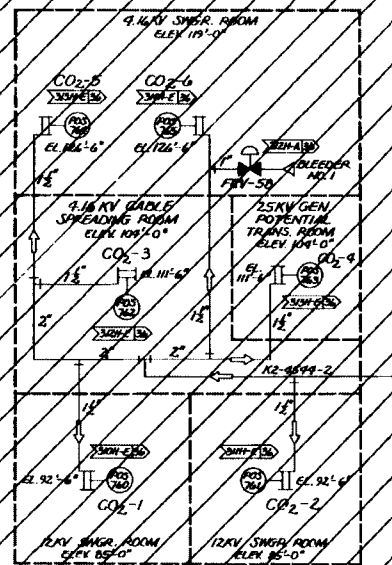
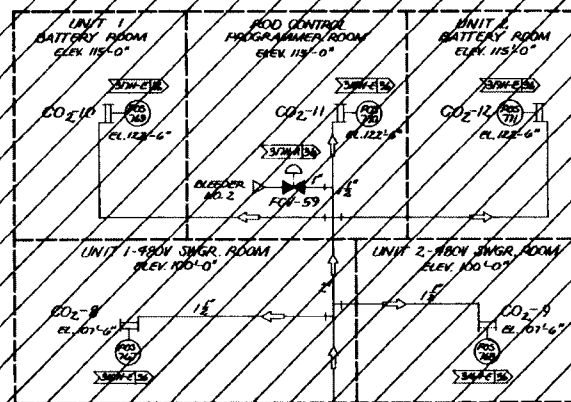
D

E

E

NOTES:

1. FOR INSTRUMENT SCHEMATIC REFERENCE SEE DRAWING 102036 SHT. 18G.
2. ALL PIPING IS CLASS "GI" EXCEPT AS NOTED.
3. DELETED

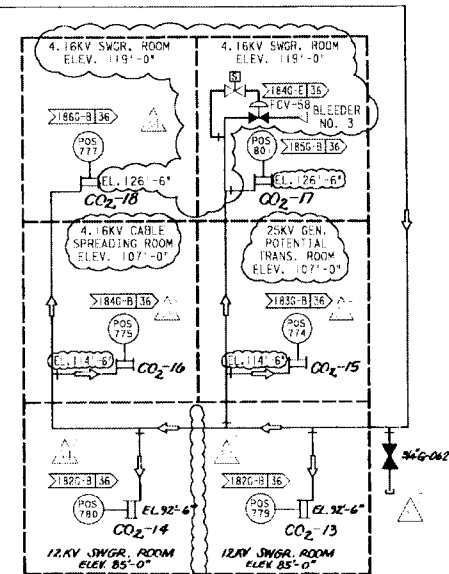


UNIT 1

CARBON DIOXIDE FIRE PROTECTION SYSTEM

HOSEREELS

REF DC-663086-182



UNIT 2

UNIT 2

P G & E CO.

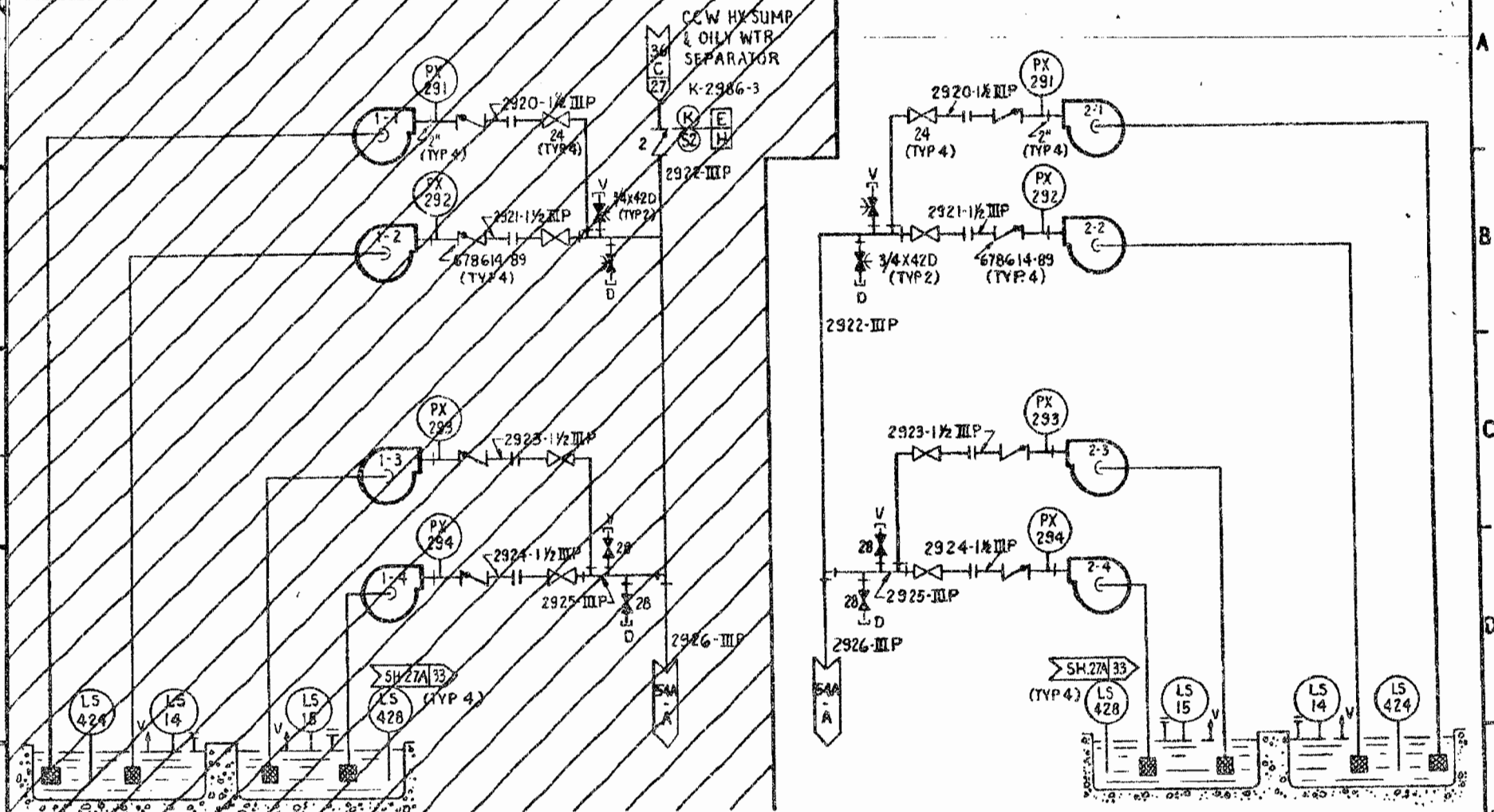
108018

P. 35

DATE (MRS) BY
6-15-87 6 1223
REV. 17, TOTAL 14

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

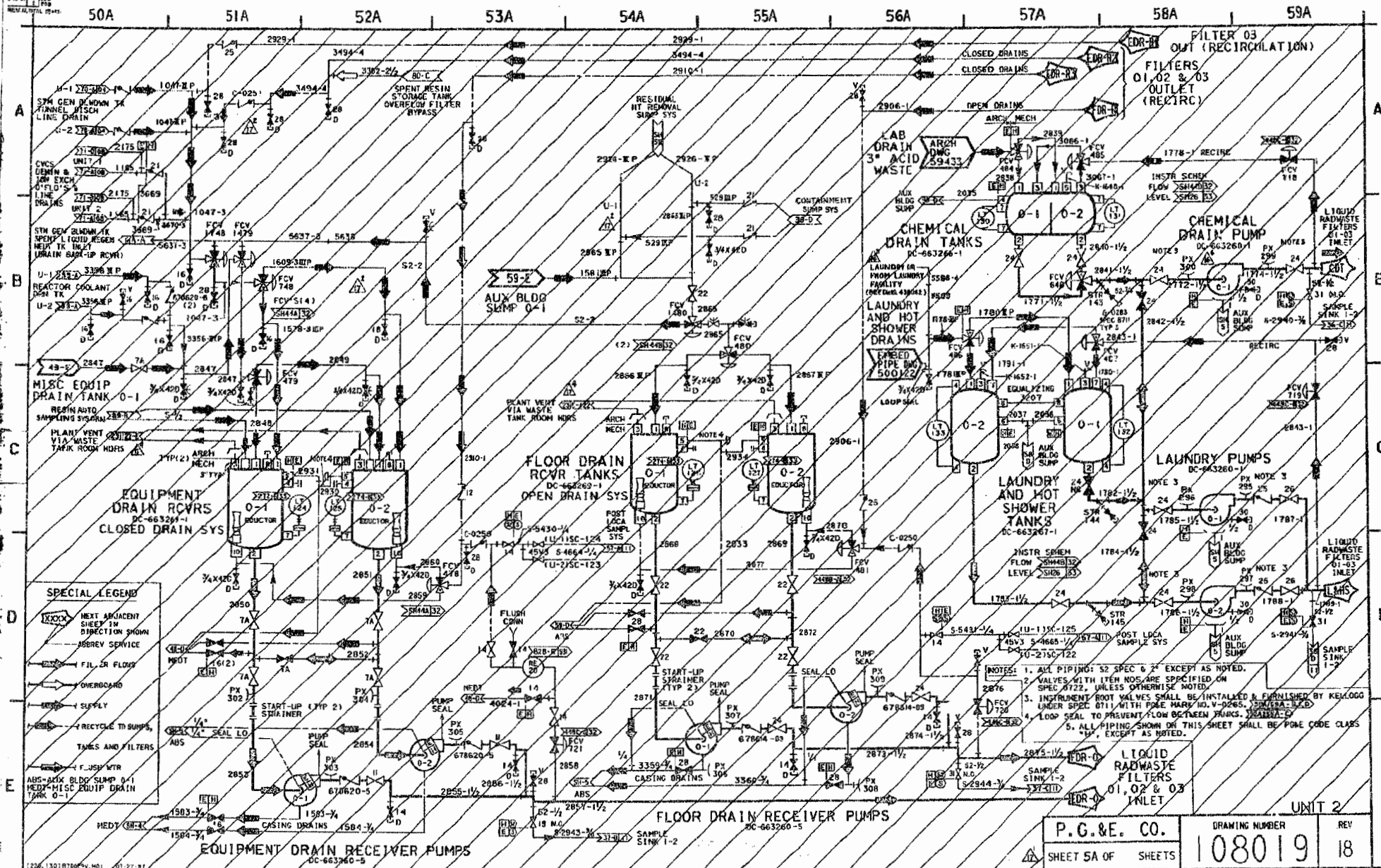
CCW HX SUMP
& OILY WTR
SEPARATOR
K-2986-3



RESIDUAL HEAT REMOVAL SUMPS & PUMPS

DC-663250-15
COVER PLATE DC-663250-35

INDEX REV. 17		UNIT 2	
PG&E CO.		108019	
SHEET 3B OF 3 SHEETS		REV. 17	
MICROFILM			



P.G.&E. CO.		DRAWING NUMBER	REV
SHEET 5A OF SHEETS		108019	18
RMS INDEXED REV 10		MICROFILM	18

30A

31A

32A

33A

34A

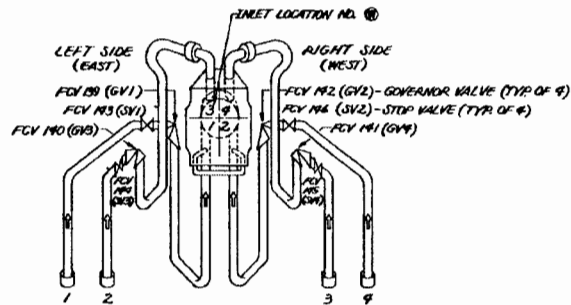
35A

36A

37A

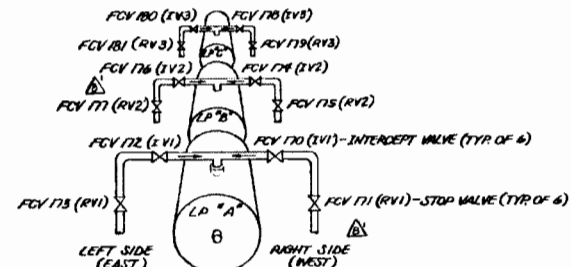
38A

39A



H.P. TURBINE

LEADS FROM STEAM GENERATOR OUTLETS



L.P. TURBINES

STEAM FROM MOISTURE SEPARATOR-REHEATERS

HP TURBINE INSTRUMENTATION TABLE 2

VALVE LOCATION AS VIEWED FACING HP TURBINE		LEFT		RIGHT	
INSTRUMENT MARK BY:		PG & E	PG & E	PG & E	PG & E
MAIN STEAM LEAD		LEAD-1 INLET LOC. NO.	LEAD-2 UPPER	LEAD-3 UPPER	LEAD-4 LOWER
GOVERNOR CONTROL VALVE		FCV-189 GV 1	FCV-190 GV 3	FCV-191 GV 4	FCV-192 GV 2
ASSOCIATED INSTRUMENTS		TEST & INTERLOCK POS-9 33/RLC	POS-8 33/RLC	POS-9 33/RLC	POS-5 33/RLC
MAIN STOP VALVE		FCV-193 SV 1	FCV-194 SV 3	FCV-195 SV 4	FCV-196 SV 2
ASSOCIATED INSTRUMENTS		TEST & INTERLOCK POS-11 33/RLC	POS-10 33/RLC	POS-6 33/RLC	POS-7 33/RLC
TRIP PILOT VALVE ACTUATOR AIR SIDE FLOW INDICATOR		FI-400	FI-402	FI-401	FI-403

GOVERNOR CONTROL VALVE FCV-189 GV 1 FCV-190 GV 3 FCV-191 GV 4 FCV-192 GV 2
ASSOC. INSTR. POSITION INSTR. POT-40A POT-40B POT-40C POT-40D

NOTE 1

LP TURBINE VALVE INSTRUMENTATION TABLE 3

LP TURBINE		TURBINE "A"		TURBINE "B"		TURBINE "C"	
VALVE LOCATION AS VIEWED FACING LP TURBINE "A"		LEFT		RIGHT		LEFT	
INSTRUMENT MARK BY:		PG & E	PG & E	PG & E	PG & E	PG & E	PG & E
INTERCEPT VALVES (6)		FCV-172 IV1	FCV-170 IV1	FCV-174 IV2	FCV-174 IV2	FCV-180 IV3	FCV-178 IV3
ASSOCIATED INSTRUMENTS		TEST & INTERLOCK POS-29 33/RLC	POS-22 33/RLC	POS-26 33/RLC	POS-26 33/RLC	POS-32 33/RLC	POS-30 33/RLC
FIXED RESTRICTING ORIFICE		RO-195 RO-190	RO-195 RO-191	RO-196 RO-192	RO-196 RO-192	RO-198 RO-194	RO-198 RO-194
SOLENOID VALVE		SV-62 20/RLC	SV-59 20/RLC	SV-68 20/RLC	SV-65 20/RLC	SV-74 20/RLC	SV-71 20/RLC
REHEAT STOP VALVE		FCV-173 RV1	FCV-171 RV1	FCV-177 RV2	FCV-175 RV2	FCV-181 RV3	FCV-179 RV3
ASSOCIATED INSTRUMENTS		TEST & INTERLOCK POS-23 33/RLC	POS-21 33/RLC	POS-27 33/RLC	POS-25 33/RLC	POS-31 33/RLC	POS-29 33/RLC
FIXED RESTRICTING ORIFICE		RO-115 RO-121	RO-116 RO-122	RO-117 RO-123	RO-118 RO-124	RO-119 RO-125	RO-120 RO-126
SOLENOID VALVE		SV-61 20/RLC	SV-58 20/RLC	SV-67 20/RLC	SV-64 20/RLC	SV-73 20/RLC	SV-70 20/RLC

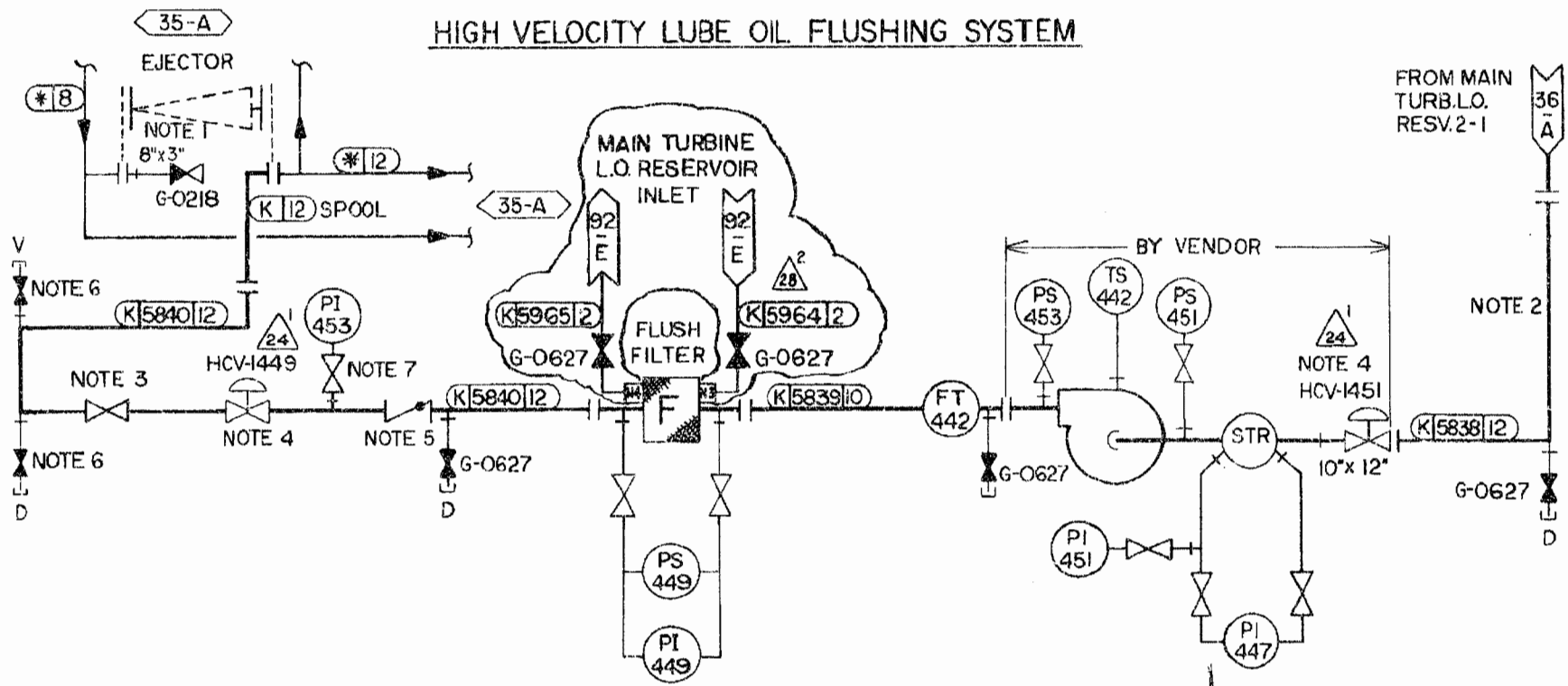
HIGH PRESSURE & LOW PRESSURE TURBINES

UNIT-2

P G & E CO.

108020 43

HIGH VELOCITY LUBE OIL FLUSHING SYSTEM



NOTES:

1. FOR FLUSHING TEMPORARILY REMOVE EJECTOR AND INSTALL SPOOL PIECES. **31B-A**
2. THIS SPOOL PIECE IS REMOVED AND BLANK FLANGED WHEN FLUSHING SYSTEM NOT IN USE. **39B-B**
3. 12" Ø 150# GLOBE VALVE-VELAN MODEL PBWK17 **30B-B**
4. 12" Ø 200# NORRIS BUTTERFLY **31B-C, 38B-C**
5. TECHNOCHECK STYLE 5355, 150# **32B-C**
6. 3/4" Ø 800# GATE VALVE-WALWORTH MODEL W9505 **30B-BC**
7. 3/4" Ø 800# GATE VALVE-LUNKENHEIMER FIG. #17 **32B-C**

UNIT-2

22^{1,2}

PG&E CO.
SHEET 38 OF SHEETS

108020

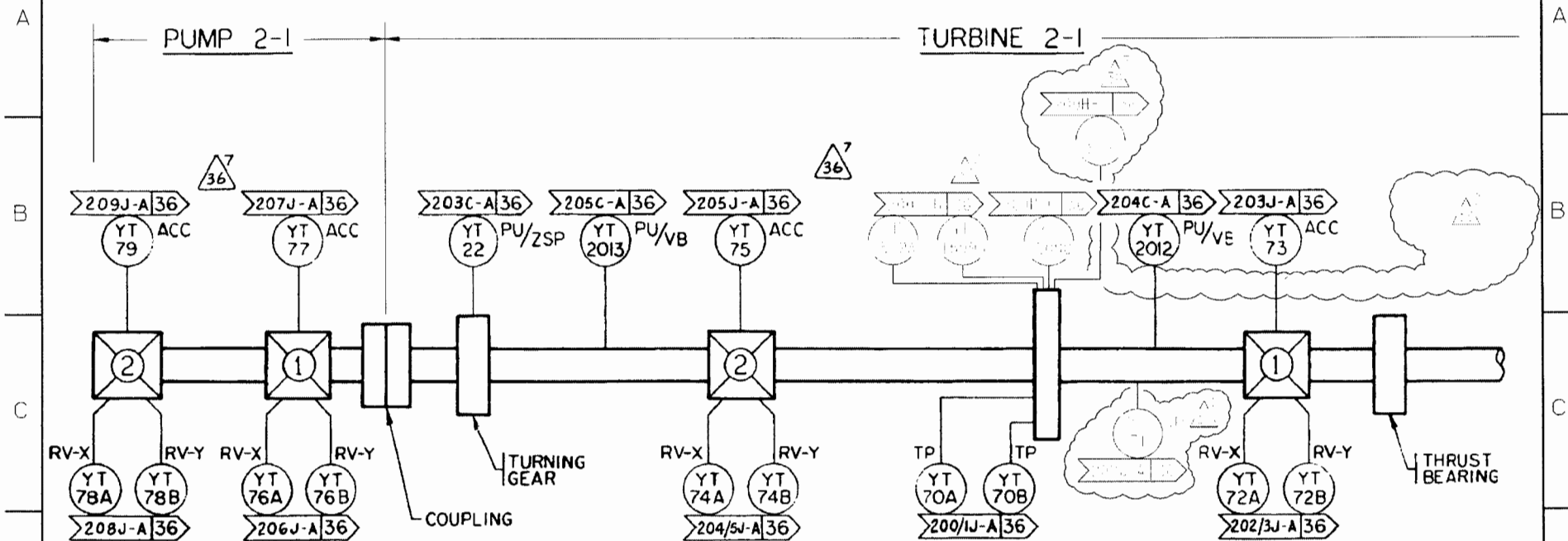
REV.
28

MICROFILM

12

60A 61A 62A 63A 64A 65A 66A 67A 68A 69A

FWPT SUPERVISORY INSTRUMENTATION



FWPT SUPERVISORY INSTRUMENTATION

SERVICE	YT TP	YT RV-X RV-Y	YT RV-X RV-Y	YT RV-X RV-Y	YT RV-X RV-Y	YE PU/SP	YT KP	YT ACC	YT ACC	YT ACC	YT ACC	YT PU/VB	YT PU/VB
FWPT 2-1 INST NO.	70A 70B	72A 72B	74A 74B	76A 76B	78A 78B	1509A 1509B 1509C 1509D	71	73	75	77	79	2012	2013
FWPT 2-2 INST NO.(NOTE 1)	80A 80B	82A 82B	84A 84B	86A 86B	88A 88B	1519A 1519B 1519C 1519D	81	83	85	87	89	2014	2015

RV-X RELATIVE VIBRATION - X PLANE (BRG)
 RV-Y RELATIVE VIBRATION - Y PLANE (BRG)
 ACC TRIAXIAL ACCELEROMETER (BRG)
 KP KEYPHASOR
 TP THRUST PROXIMETER

NOTE:

1. INSTRUMENT SCHEMATIC COORDINATES FOR FWPT 2-2 ARE NOT PROVIDED ON THIS SHEET; SEE SHEETS 20C, 20I & 20K OF DWG. 102036 61A-E

UNIT-2

P G & E CO.

108020 38

60B

61B

62B

63B

64B

65B

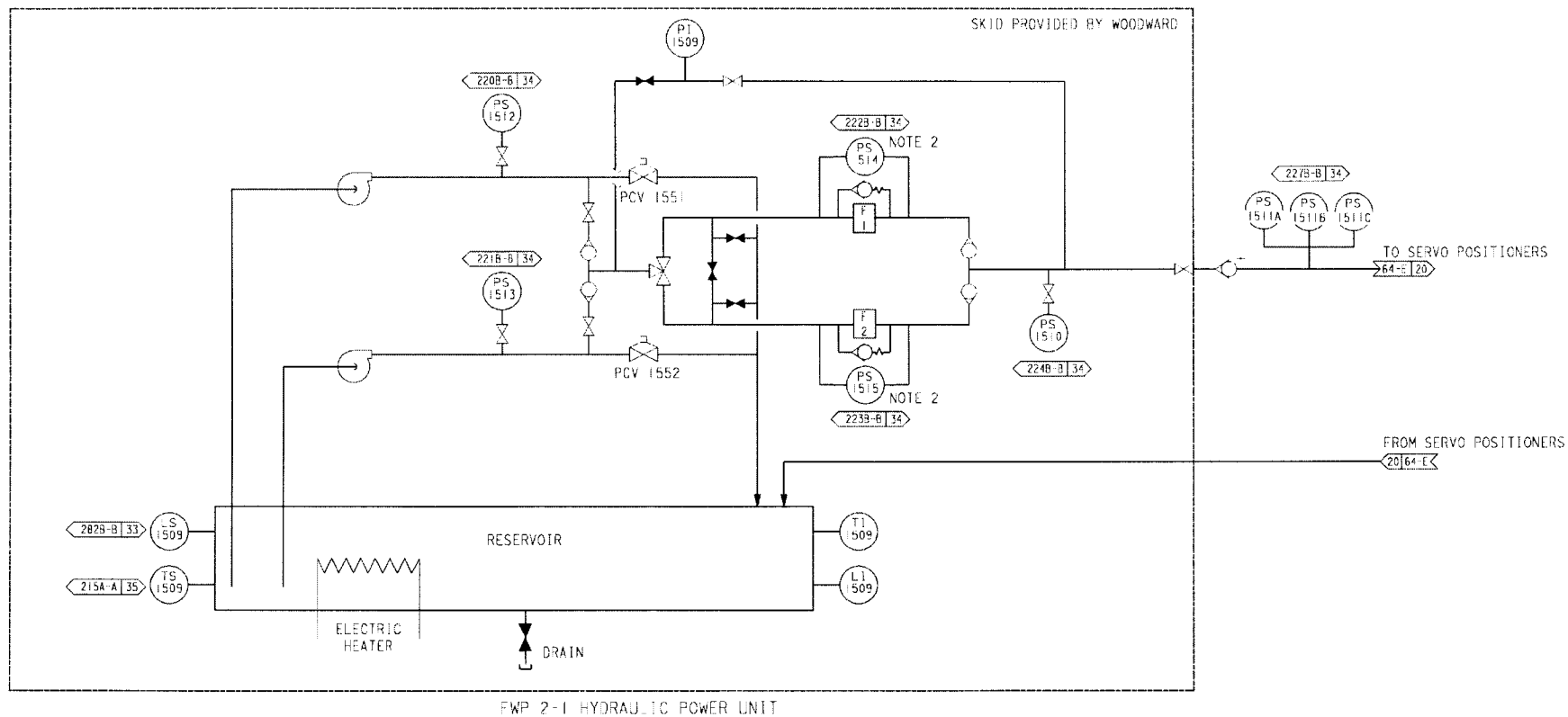
66B

67B

68B

69B

INSTR CLASS 11



NOTES:

- FWP 2-1 IS SHOWN. FOR FWP 2-2 INSTRUMENT NUMBERS SEE TABLE ON SH. 7.
- BYPASS AND DIFFERENTIAL PRESS SWITCH ARE PART OF FILTER HOUSING.

■ PROVIDED BY WOODWARD

NEW SHEET

UNIT 2

P G & E CO.

108020

1

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

A

B

C

D

E

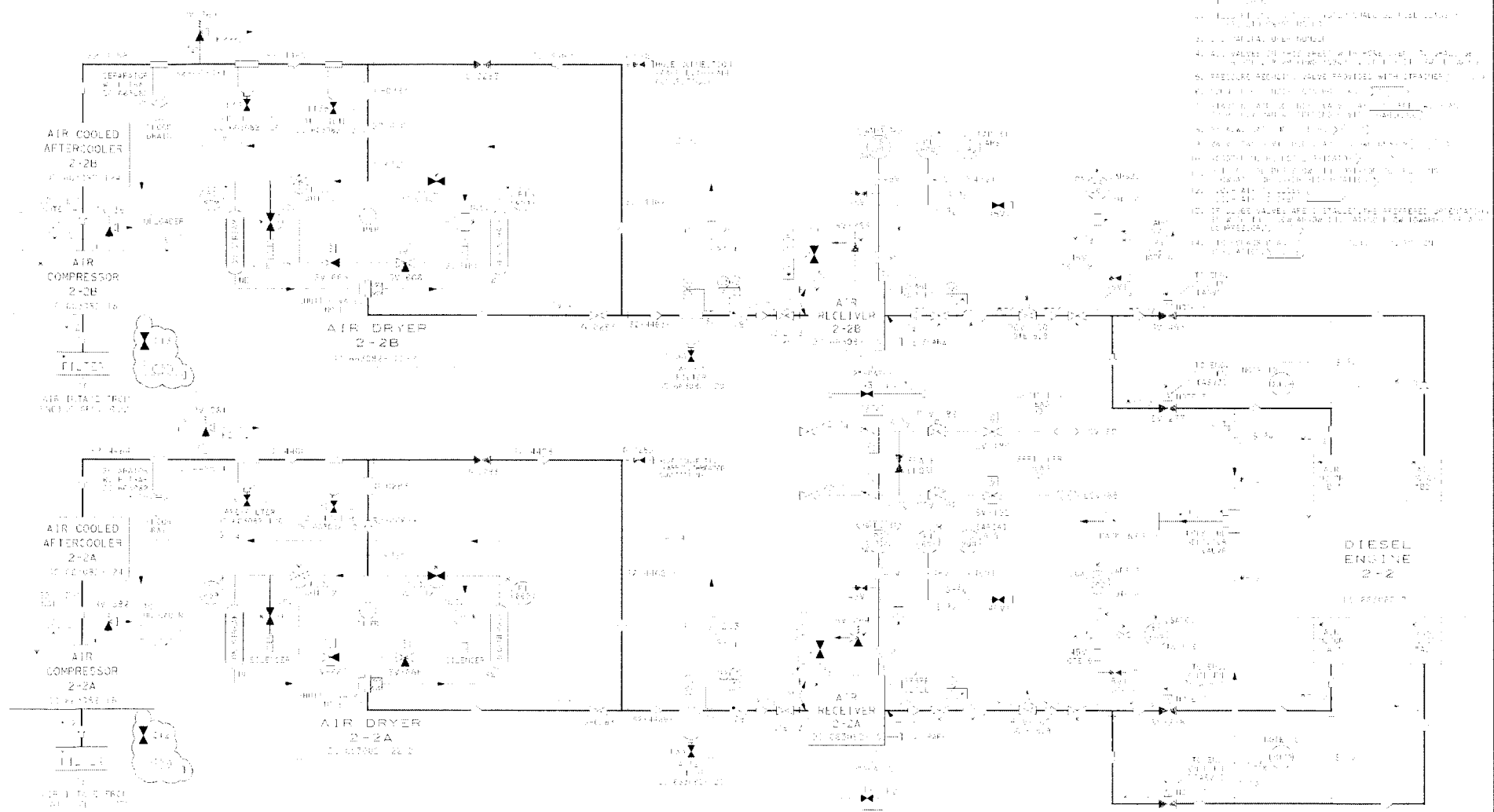
A

B

C

D

E

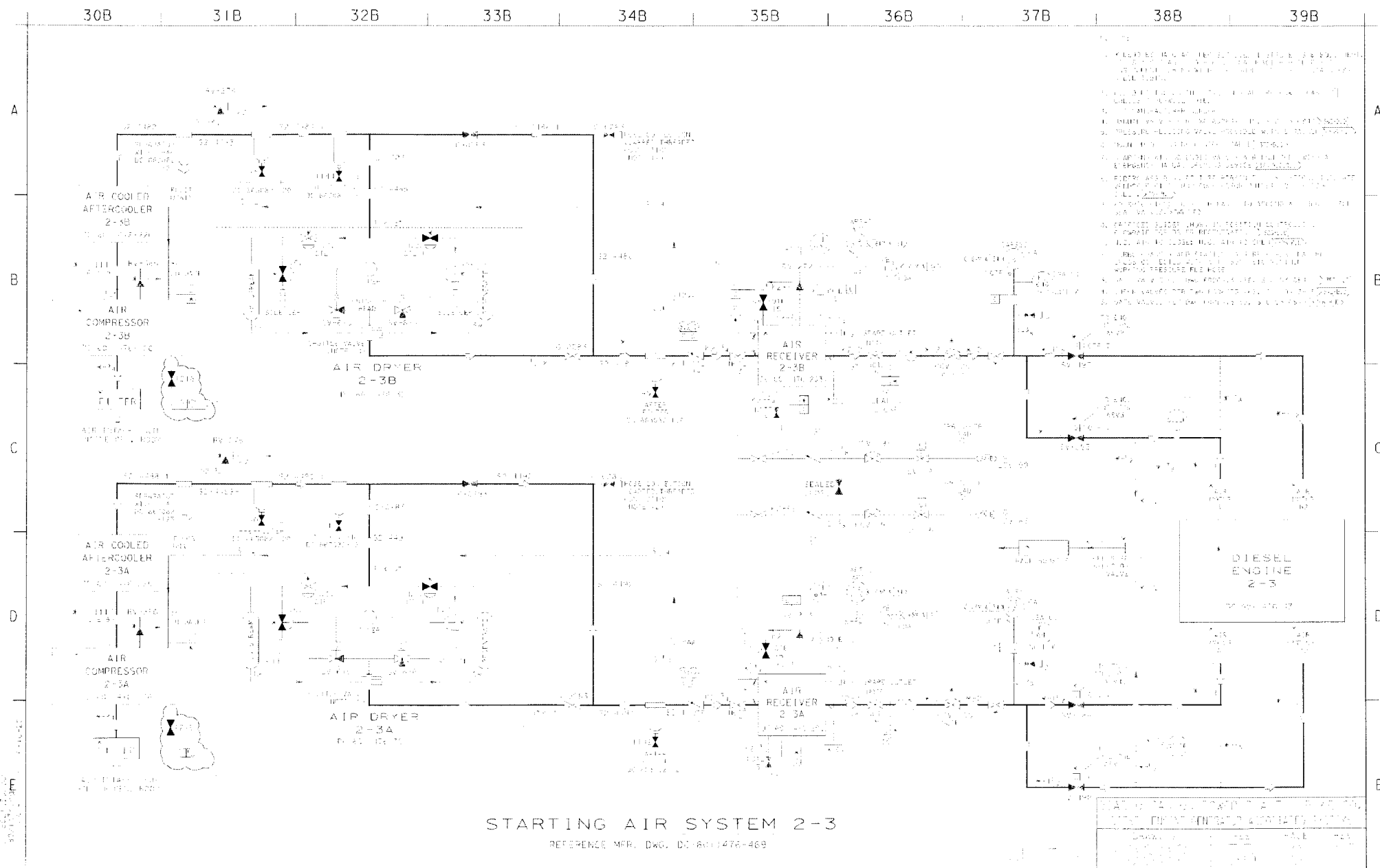


STARTING AIR SYSTEM 2-2

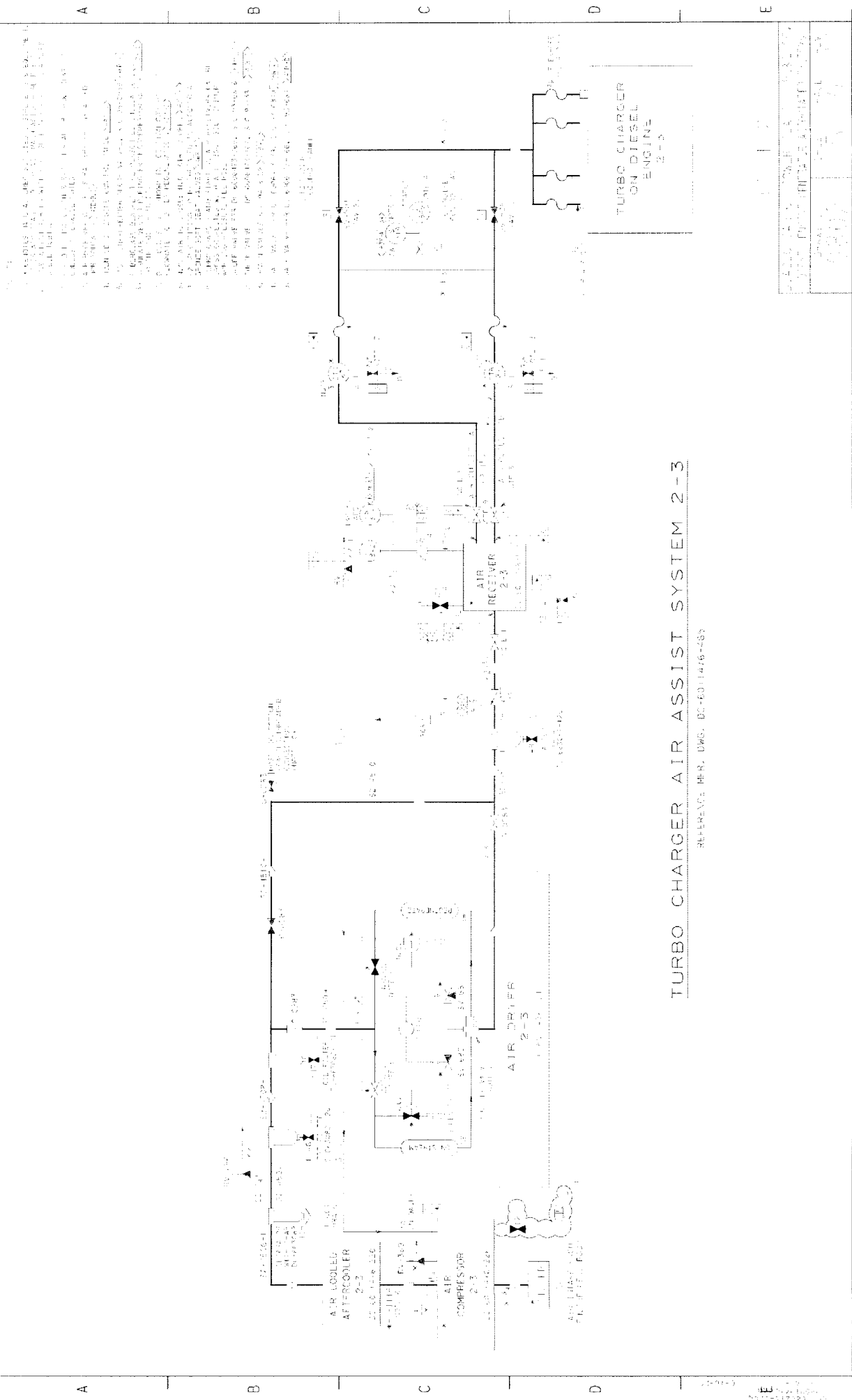
REFERENCE MFR. DATA DC 603082-5

1. ALL VALVES MANUFACTURED TO MEET THE REQUIREMENTS OF THE AIR SYSTEM.
2. ALL VALVES MANUFACTURED TO MEET THE REQUIREMENTS OF THE AIR SYSTEM.
3. ALL VALVES MANUFACTURED TO MEET THE REQUIREMENTS OF THE AIR SYSTEM.
4. ALL VALVES MANUFACTURED TO MEET THE REQUIREMENTS OF THE AIR SYSTEM.
5. PRESSURE REGULATING VALVE PROVIDED WITH STRAINER.
6. ALL VALVES MANUFACTURED TO MEET THE REQUIREMENTS OF THE AIR SYSTEM.
7. ALL VALVES MANUFACTURED TO MEET THE REQUIREMENTS OF THE AIR SYSTEM.
8. ALL VALVES MANUFACTURED TO MEET THE REQUIREMENTS OF THE AIR SYSTEM.
9. ALL VALVES MANUFACTURED TO MEET THE REQUIREMENTS OF THE AIR SYSTEM.
10. ALL VALVES MANUFACTURED TO MEET THE REQUIREMENTS OF THE AIR SYSTEM.
11. ALL VALVES MANUFACTURED TO MEET THE REQUIREMENTS OF THE AIR SYSTEM.
12. ALL VALVES MANUFACTURED TO MEET THE REQUIREMENTS OF THE AIR SYSTEM.
13. ALL VALVES MANUFACTURED TO MEET THE REQUIREMENTS OF THE AIR SYSTEM.
14. ALL VALVES MANUFACTURED TO MEET THE REQUIREMENTS OF THE AIR SYSTEM.

REV	DATE	BY	CHKD
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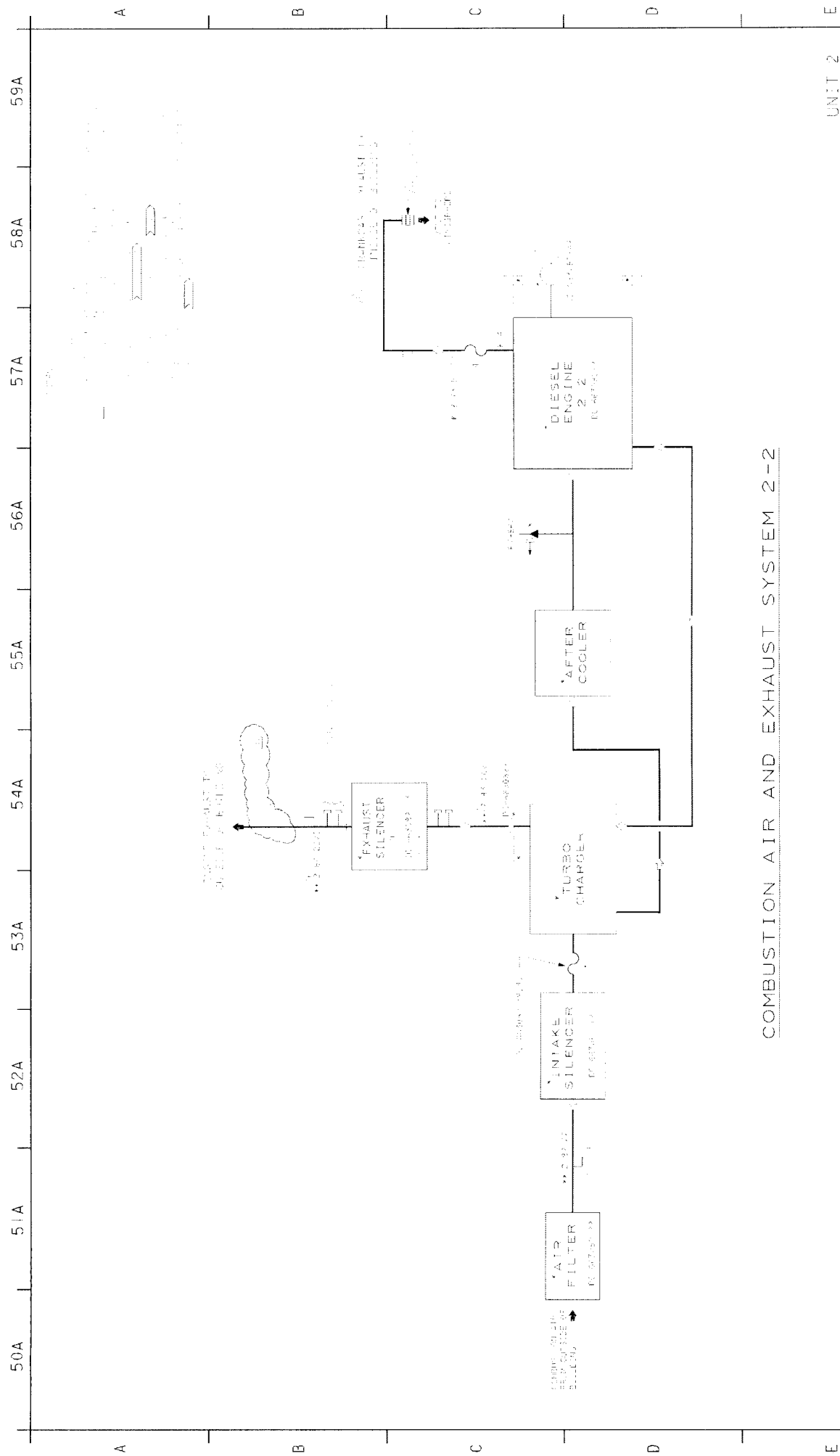
40B 41B 42B 43B 44B 45B 46B 47B 48B 49B



TURBO CHARGER AIR ASSIST SYSTEM 2-3

REFERENCE PER. DWG. DC-6011476-489

DATE	10/1/50
BY	W. J. H. 10/1/50
CHECKED	W. J. H. 10/1/50
APPROVED	W. J. H. 10/1/50

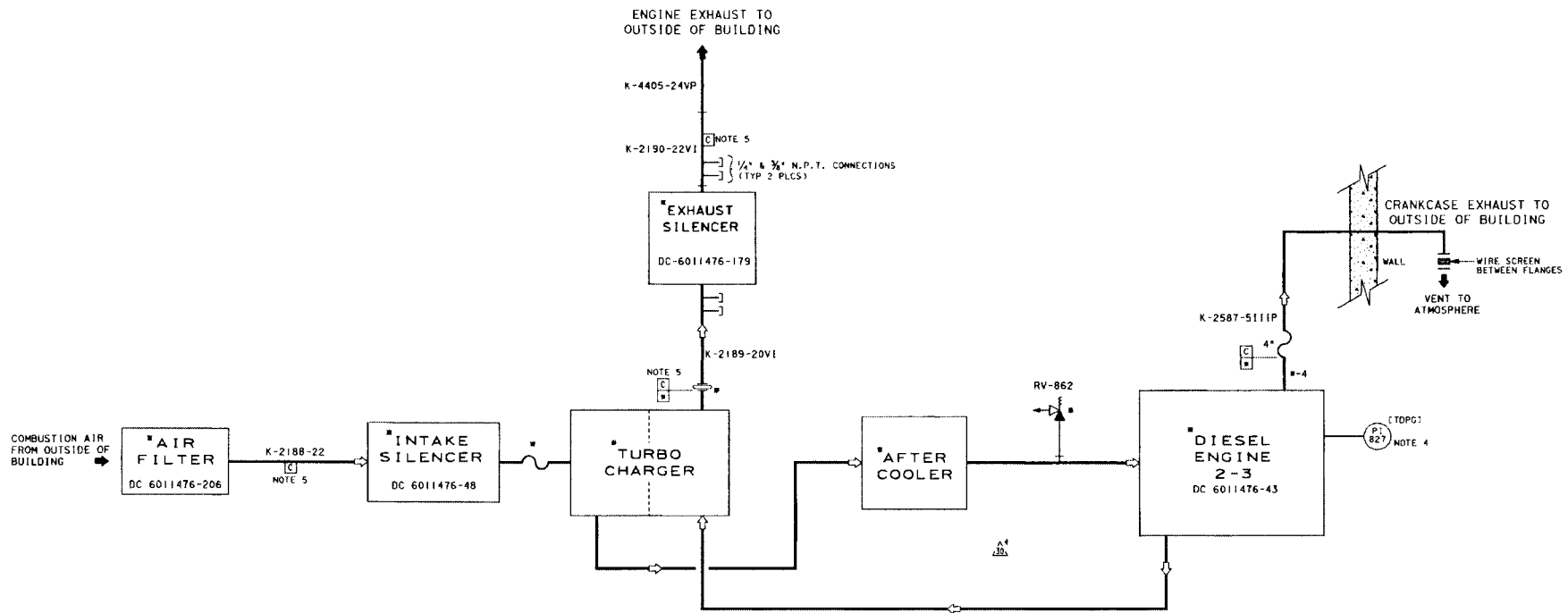


COMBUSTION AIR AND EXHAUST SYSTEM 2-2

50B 51B 52B 53B 54B 55B 56B 57B 58B 59B

NOTES:

1. [] INDICATES P&E PIPING CODE CLASS
2. * DENOTES MANUFACTURER SUPPLIED INSTRUMENTS & EQUIPMENT.
IT IS ACCEPTABLE TO REPLACE MANUFACTURER SUPPLIED INSTRUMENT TUBING WITH P&E SUPPLIED S-SPEC STAINLESS STEEL TUBING
3. [] MANUFACTURER NUMBER IDENTIFICATION
4. MOUNTED ON ENGINE CONTROL PANEL 58B-2
5. INTAKE AND EXHAUST PIPE SHOWN AS CLASS [] IS QUALIFIED FOR HOSGRT ONLY



COMBUSTION AIR AND EXHAUST SYSTEM 2-3

UNIT 2

P.G.&E. CO.

DRAWING NUMBER

REV

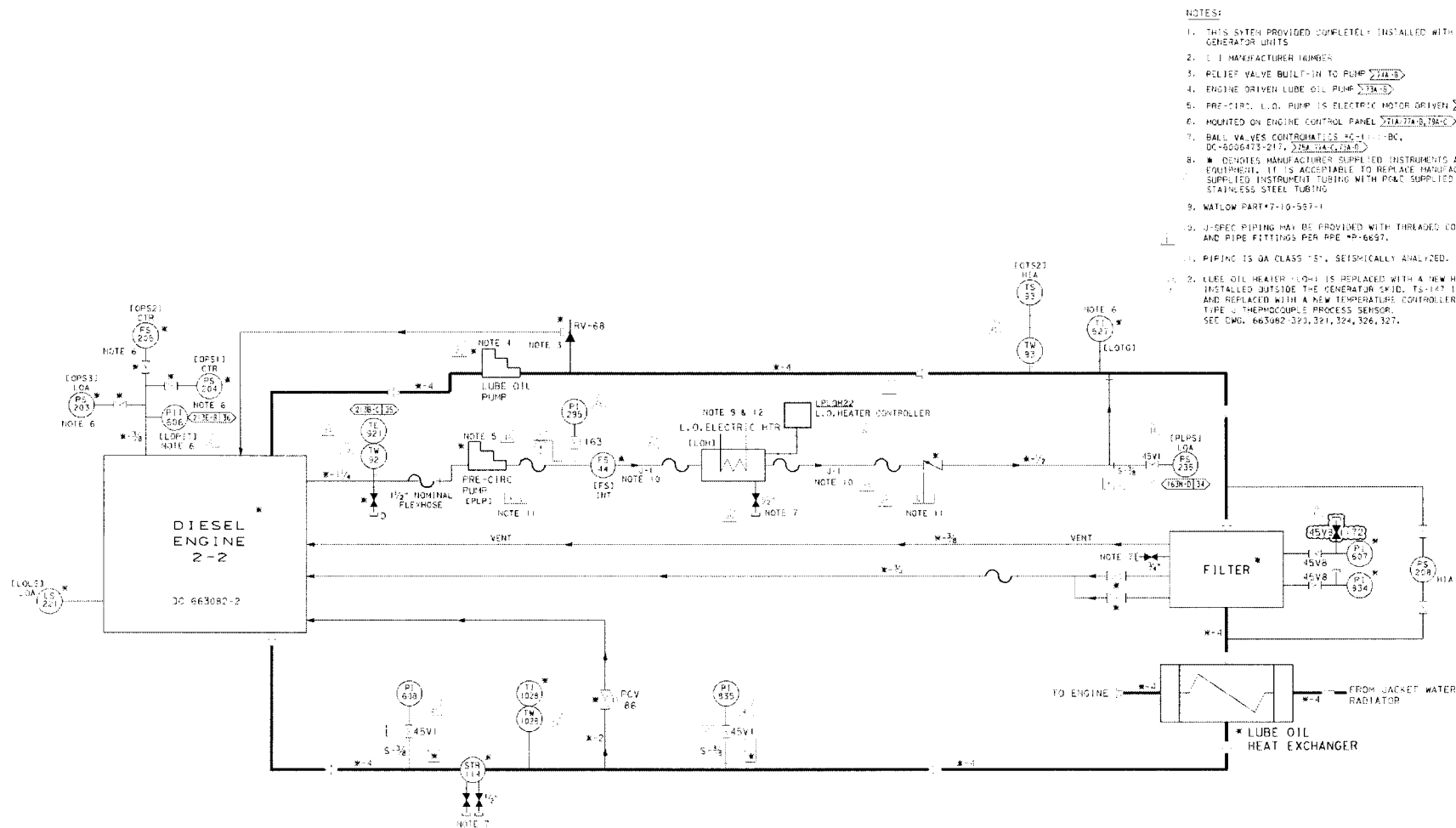
SHEET 5B OF SHEETS

108021 39

MICROFILM



70A 71A 72A 73A 74A 75A 76A 77A 78A 79A



- NOTES:
1. THIS SYSTEM PROVIDED COMPLETELY INSTALLED WITH ENGINE GENERATOR UNITS
 2. 1.1 MANUFACTURER NUMBER
 3. RELIEF VALVE BUILT-IN TO PUMP P-204
 4. ENGINE DRIVEN LUBE OIL PUMP P-203
 5. PRE-CIRC. L.O. PUMP IS ELECTRIC MOTOR DRIVEN P-203
 6. MOUNTED ON ENGINE CONTROL PANEL P-203
 7. BALL VALVES CONTRA-HITZ AC-1111-BC, DC-6606473-217, 218, 219, 220, 221, 222
 8. * DENOTES MANUFACTURER SUPPLIED INSTRUMENTS AND EQUIPMENT. IT IS ACCEPTABLE TO REPLACE MANUFACTURER SUPPLIED INSTRUMENT TUBING WITH PIPE SUPPLIED SPEC STAINLESS STEEL TUBING
 9. WATLOW PART 7-10-507-1
 10. J-SPEC PIPING MAY BE PROVIDED WITH THREADED CONNECTIONS AND PIPE FITTINGS PER PPE P-6657.
 11. PIPING IS QA CLASS 751, SEISMICALLY ANALYZED.
 12. LUBE OIL HEATER (LOH) IS REPLACED WITH A NEW HEATER AND INSTALLED OUTSIDE THE GENERATOR SKID. TS-147 IS DELETED AND REPLACED WITH A NEW TEMPERATURE CONTROLLER WITH TYPE 2 THERMOCOUPLE PROCESS SENSOR. SEE DWG. 663082-323, 321, 324, 326, 327.

LUBE OIL SYSTEM 2-2
REFERENCE MFR. DWG. DC 663082-16

UNIT 2

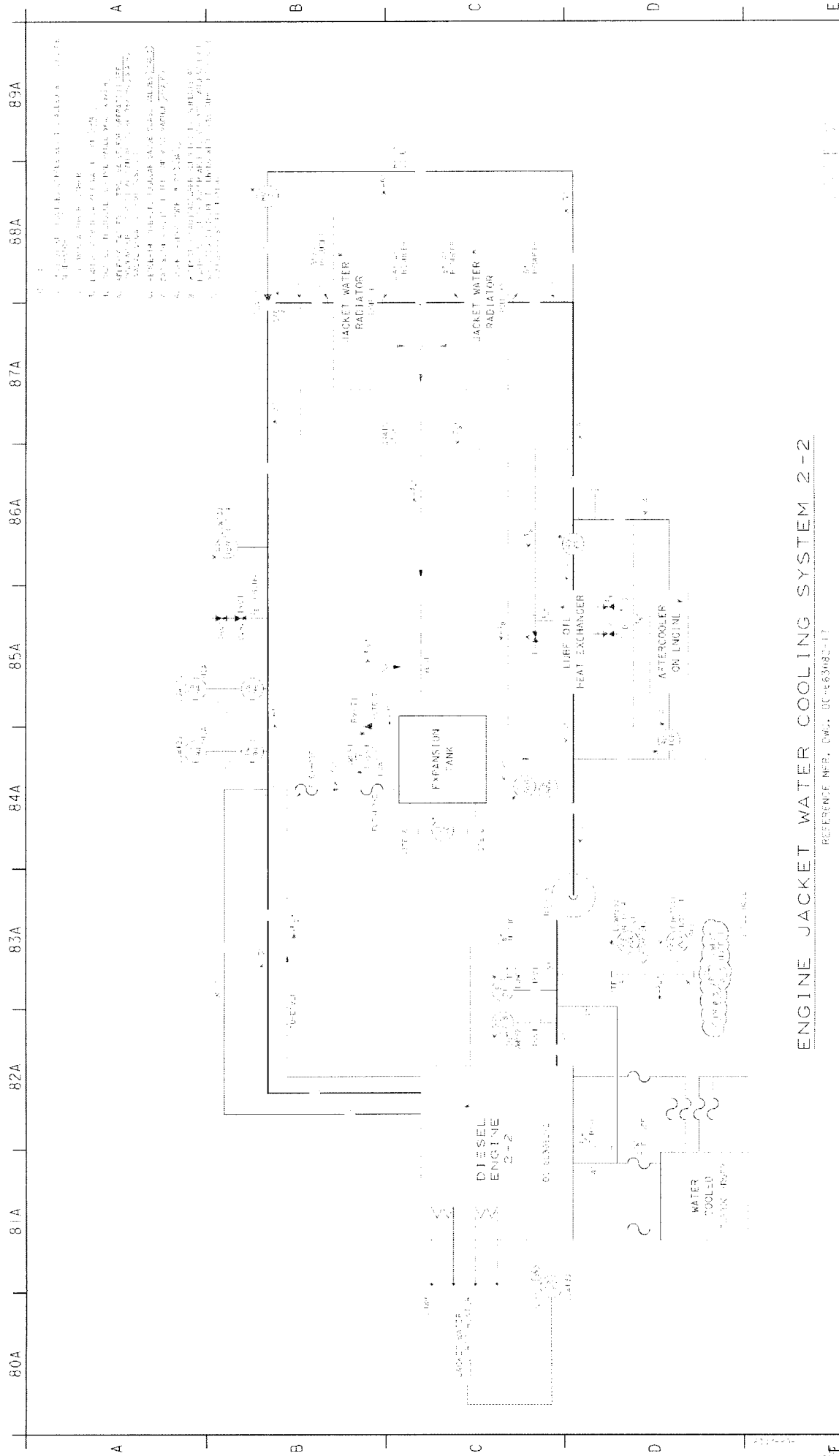
DIABLO CANYON POWER PLANT - PG&E CO.
DIESEL ENGINE-GENERATOR ASSOCIATED SYSTEM

DRAWING	SHEET	PAGE	REV
108021	7A	0	51

04-01-2010 CMB-FWC	KERSI L. DALAL	MECHANICAL H 16690	3.3.2012	REVISED PER CAS-6-293
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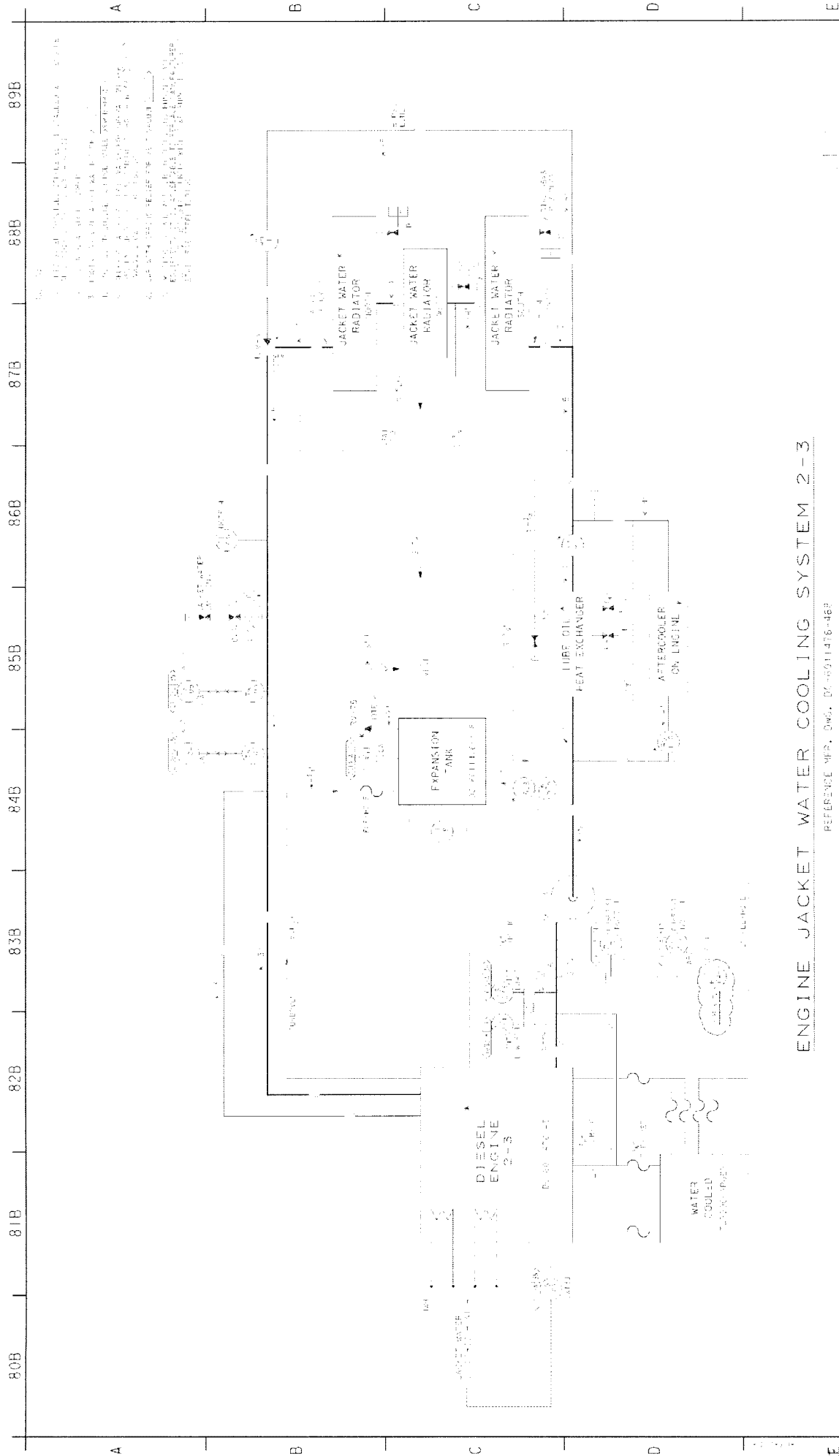
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ENGINE JACKET WATER COOLING SYSTEM 2-2

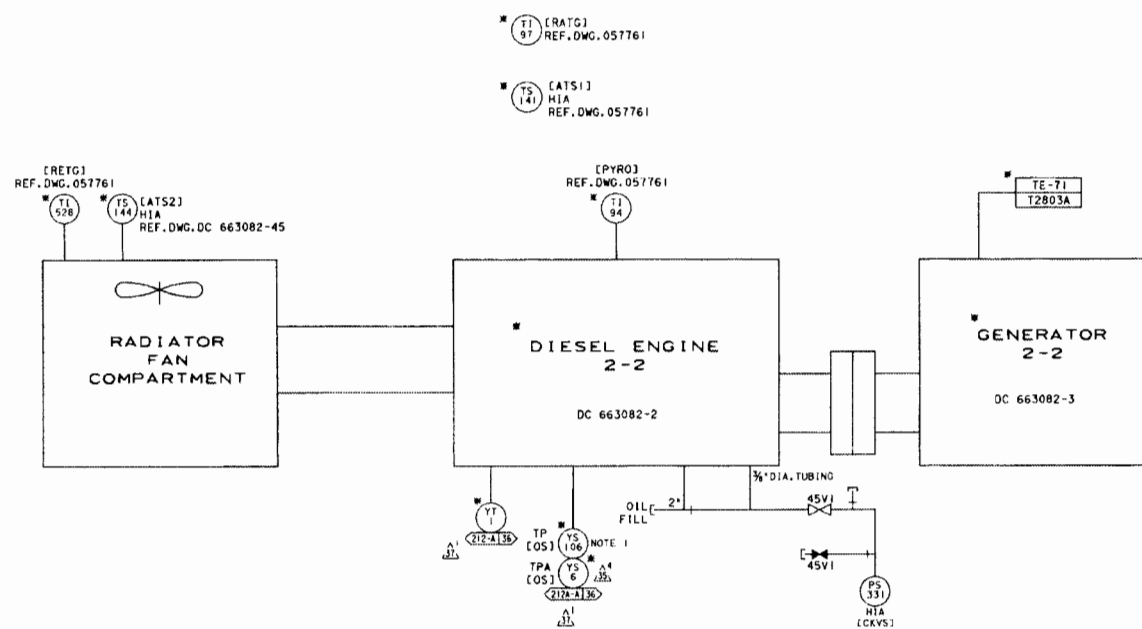
REFERENCE NFR, DWG. DC-63062-17

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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90A 91A 92A 93A 94A 95A 96A 98A 99A

NOTE:
 1. YS-106 IS MECHANICAL OVERSPEED TRIP DEVICE. (95-0)
 2. * DENOTES MANUFACTURER SUPPLIED INSTRUMENTS AND EQUIPMENT. IT IS ACCEPTABLE TO REPLACE MANUFACTURER SUPPLIED INSTRUMENT TUBING WITH POBE SUPPLIED S-SPEC STAINLESS STEEL TUBING



MISC. INSTRUMENTS FOR ENGINE GENERATOR 2-2

UNIT 2

P.G.&E. CO.	DRAWING NUMBER	REV
SHEET 9A OF SHEETS	108021	39
	MICROFILM	

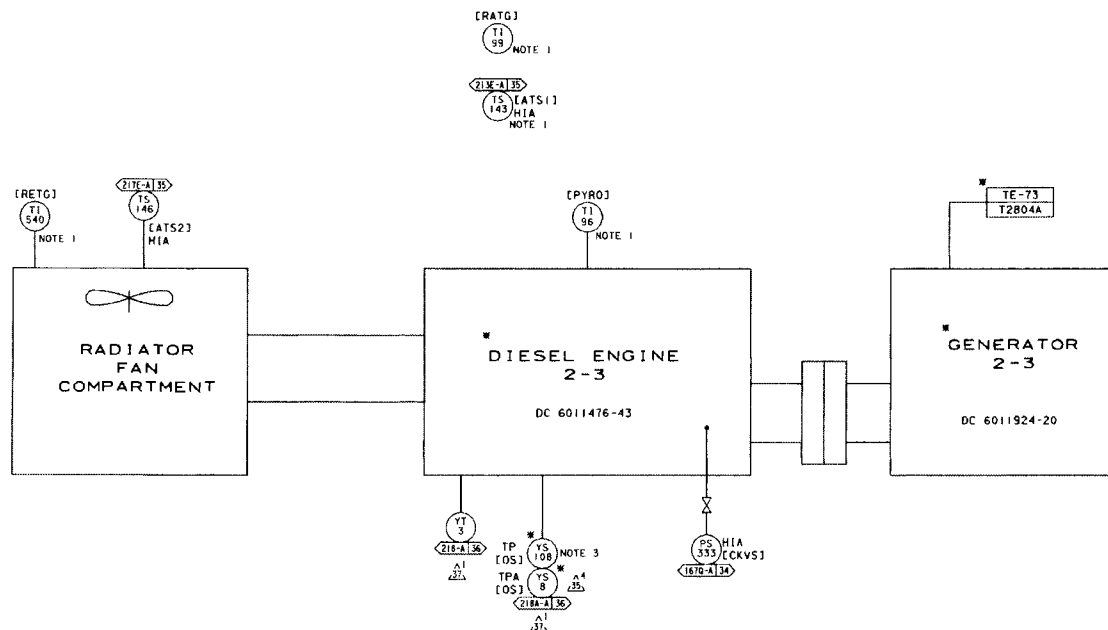
90B 91B 92B 93B 94B 95B 96B 97B 98B 99B

NOTES:

1. MOUNTED ON ENGINE CONTROL PANEL

2. * DENOTES MANUFACTURER SUPPLIED INSTRUMENTS AND EQUIPMENT; IT IS ACCEPTABLE TO REPLACE MANUFACTURER SUPPLIED INSTRUMENT TUBING WITH POSE SUPPLIED S-SPEC STAINLESS STEEL TUBING

3. YS-108 IS MECHANICAL OVERSPEED TRIP DEVICE. (98B)



MISC. INSTRUMENTS FOR ENGINE GENERATOR 2-3

UNIT 2

P.G.&E. CO.

DRAWING NUMBER

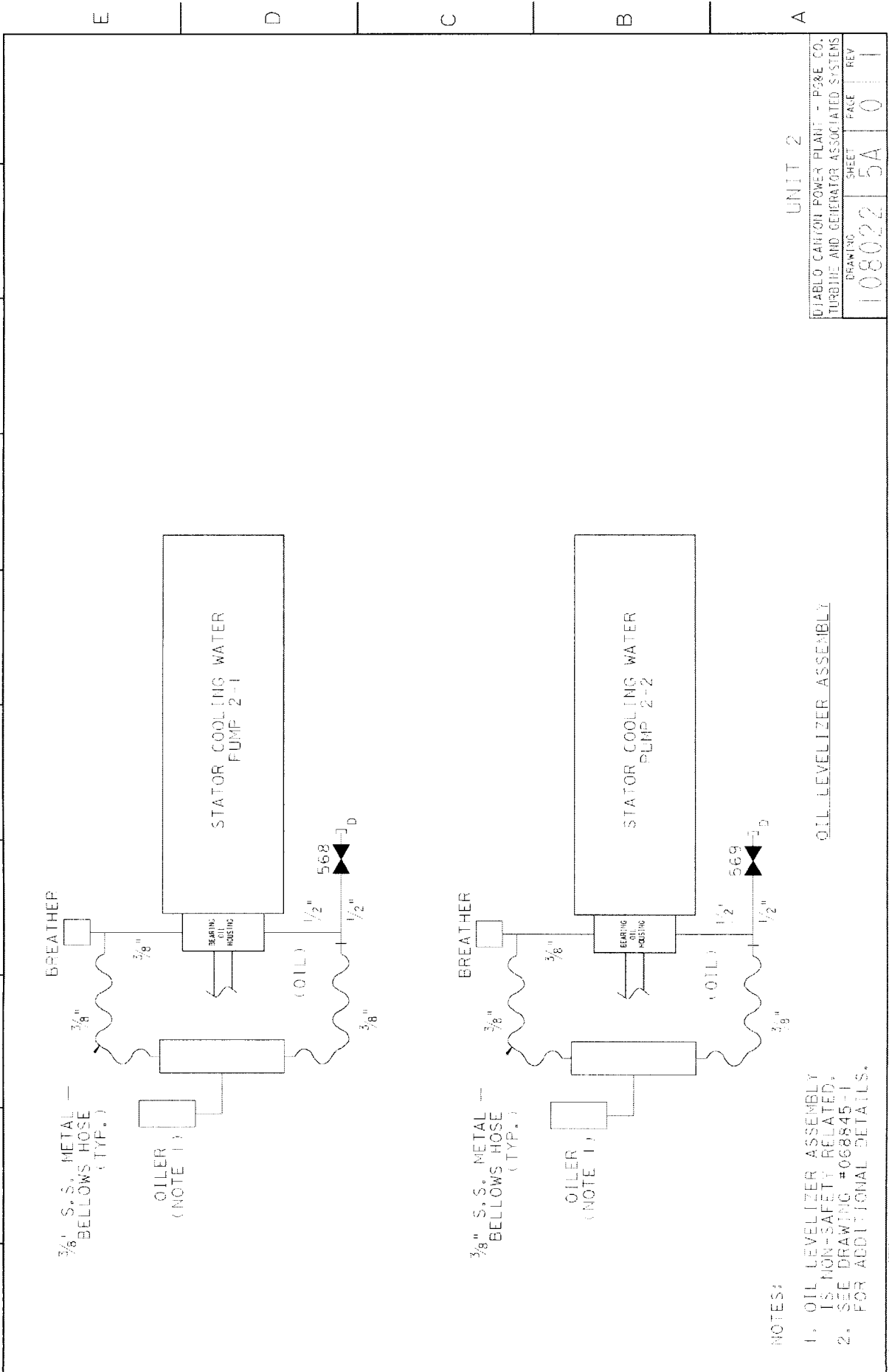
REV

SHEET 9B OF SHEETS

108021 39

MICROFILM

50A | 51A | 52A | 53A | 54A | 55A | 56A | 57A | 58A | 59A



NOTES:
 1. OIL LEVELIZER ASSEMBLY IS NON-SAFETY RELATED.
 2. SEE DRAWING #068845-1 FOR ADDITIONAL DETAILS.

UNIT 2

DIABLO CANYON POWER PLANT - P&BE CO. TURBINE AND GENERATOR ASSOCIATED SYSTEMS			
DRAWING	SHEET	FACE	REV
108022	5A	0	1

05-31-2011	CNPK	EXC2	KERSI, J. DALA	MECHANICAL	11/3/2012	3/3	2012	INITIAL	ISSUE	PER DFT-7	1195-0
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132e

NOTES

- 1 ALL PIPING ON THIS SHEET SHALL BE PG & E CLASS "E"
- 2 THREE DRAINS FROM MOISTURE SEPARATOR AND HEPA FILTER SECTIONS ARE PLUGGED WITH REMOVABLE TEST PLUG (58, 55, 56, 58, 59-2)
- 3 LEVEL TRANSMITTERS MUST BE 10 FEET APART (58-B)

4. FAN MOTOR - DC-663079-5
5. ANNULUS DUCT LAYOUT - PG & E DWG NO 501389 & 501390
6. BACKDRAFT DAMPERS MD 262 THRU MD-266 = DC-663079-37

7. PROVISION FOR QUICK REMOVAL OF DUCT (55-C)
8. CONTMT STR SUMP 2-2 DRN HDR FUNNEL 4

- ## REFERENCES
- 1 REACTOR CONTAINMENT FAN COOLERS = DC-663079-22
 - 2 FAN COOLER ENCLOSURE = DC-663079-4 & 23
 - 3 FAN MOTOR = DC-663079-5
 - 4 FAN = DC-663079-7 & 8
 - 5 ANNULUS DUCT LAYOUT = PG & E DWG NO 501389 & 501390
 - 6 BACKDRAFT DAMPERS MD 262 THRU MD-266 = DC-663079-37

ELEV 141'
CONTROL ROD DRIVE MECHANISM (POOL AREA)

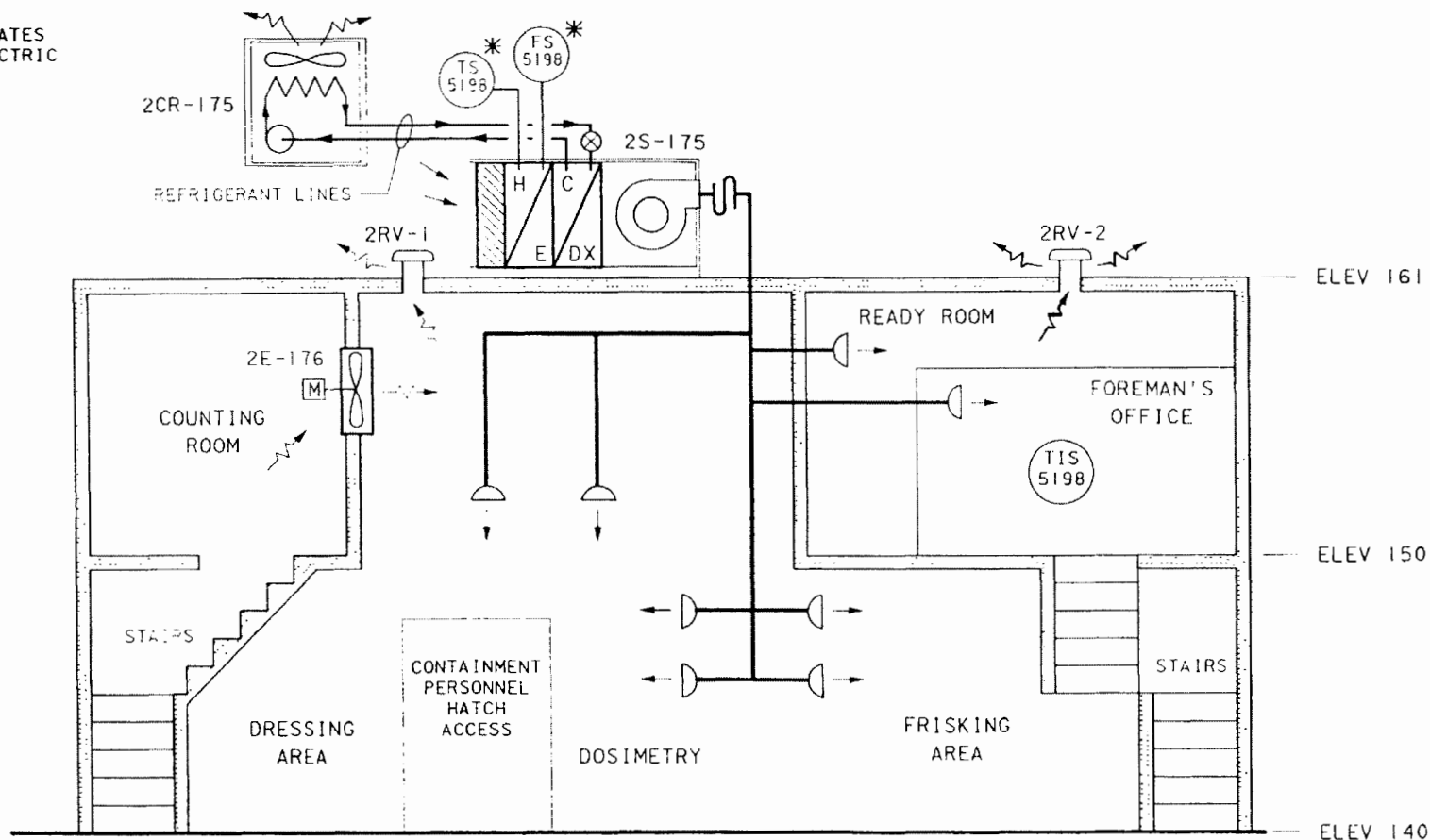
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CONTAINMENT AIR CIRCULATION

60A | 61A | 62A | 63A | 64A | 65A | 66A | 67A | 68A | 69A

NOTES:

.. ASTERISK (*) INDICATES
"SUPPLIED WITH ELECTRIC
HEATER".



**OUTAGE ACCESS CONTROL FACILITY
HEATING & VENTILATION
(ELEVATION LOOKING EAST)
(AREA GW)**

UNIT 2

02356A.MQ: 02- 8-92 11:30 VNM

-- S25-2.FMT

42

P G & E CO.
SHEET 6A OF SHEETS

108023

REV
42

MICROFILM

42

RM INDEXED REV. 42

SCAN 42 IC

NOTES:

1. FOR RELATIVE LOCATION OF CONTROL ROOM AREA, SEE SHEET 13.
2. ELECTRIC DUCT HEATER 2EH-27 (EH-S) IS SUPPLIED WITH REDUNDANT HEATING ELEMENTS (A&B). 2163/E
3. FOR LEGEND, ABBREVIATIONS & GENERAL NOTES, SEE SHEET 2 (108023) AND SHEET 3 (108001).
4. NUMBERS IN BRACKETS [] ARE ORIGINAL ARCHITECTURAL TAG NUMBERS.
5. FOR OPERATING MODES, SEE HVAC AIR FLOW DIAGRAM DWG. 511157.
6. CONTROL ROOM PRESSURIZATION SYS. CHL & RE CROSS REFERENCE COORDINATES REFER RESPECTIVELY TO INSTRUMENTATION DRAWINGS 106031 & 107931 ONLY.

CALL NORTH

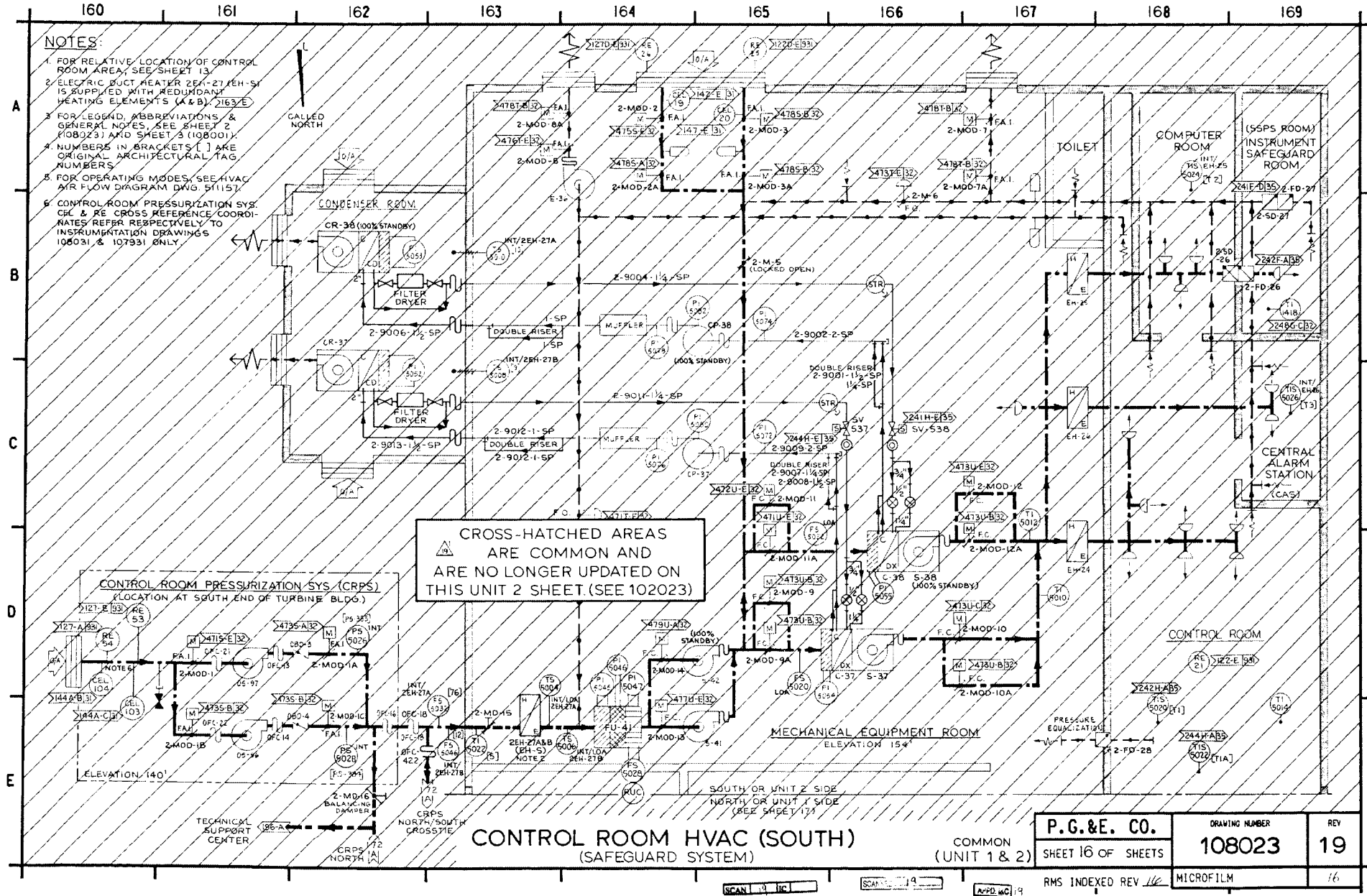
CROSS-HATCHED AREAS ARE NO LONGER UPDATED ON THIS UNIT 2 SHEET (SEE 102023)

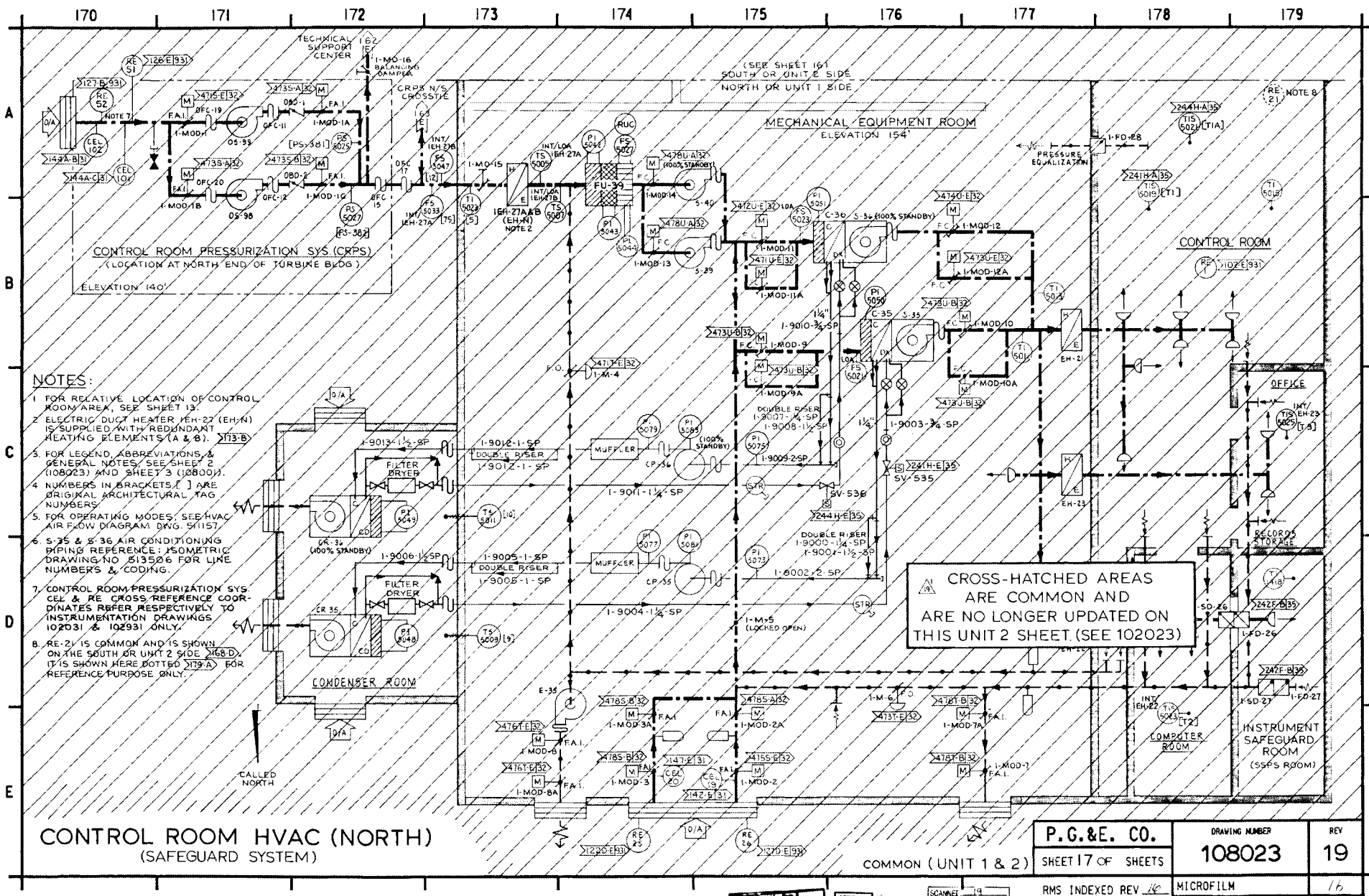
CONTROL ROOM PRESSURIZATION SYS. (CRPS)
(LOCATION AT SOUTH END OF TURBINE BLDG.)

CONTROL ROOM HVAC (SOUTH) (SAFEGUARD SYSTEM)

COMMON
(UNIT 1 & 2)

P.G.&E. CO.	DRAWING NUMBER	REV
SHEET 16 OF SHEETS	108023	19
RMS INDEXED REV 16	MICROFILM	16





P.G.&E. CO.	DRAWING NUMBER	REV
	108023	19
SHEET 17 OF SHEETS		MICROFILM

180A 181A 182A 183A 184A 185A 186A 187A 188A 189A

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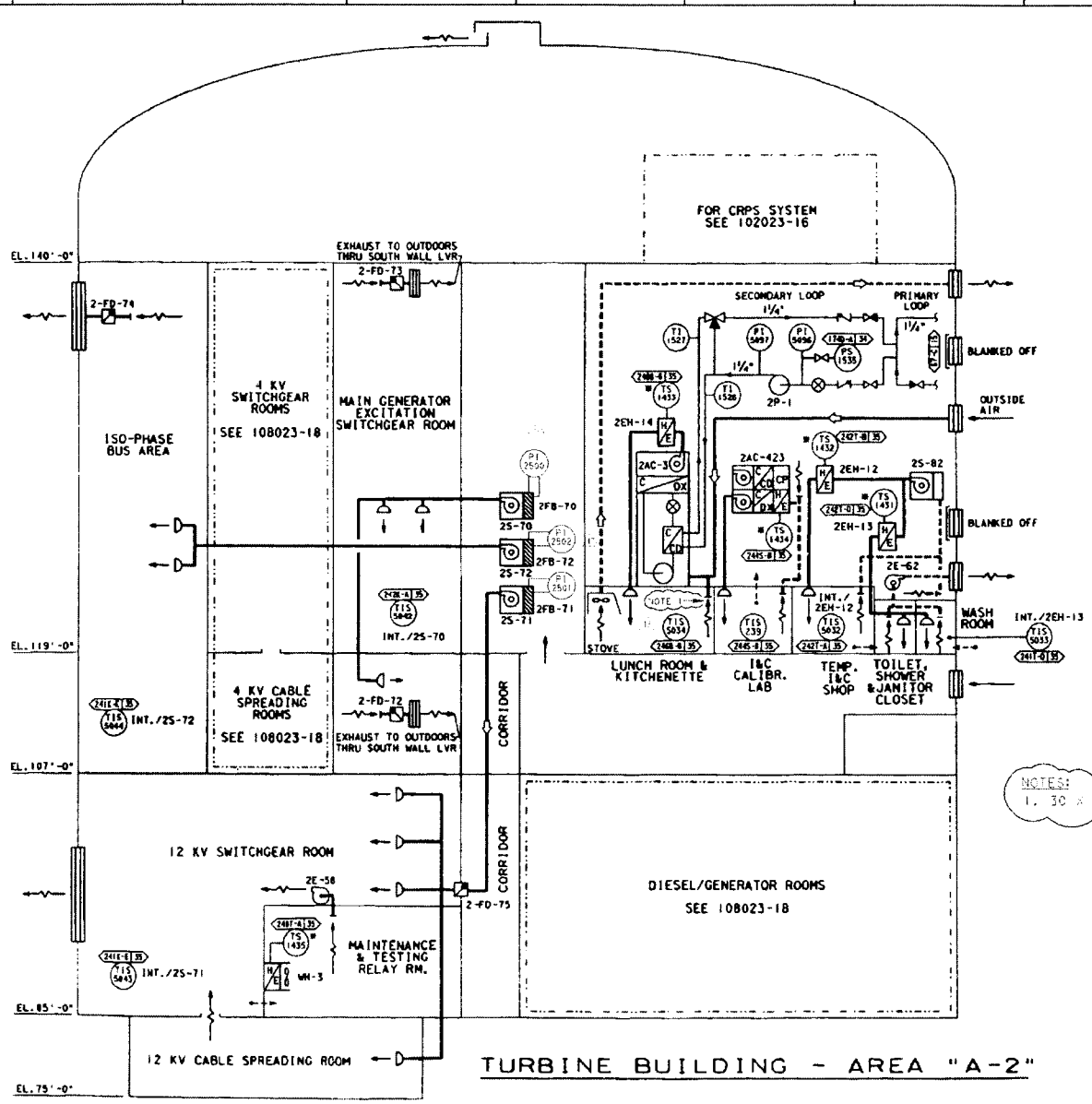
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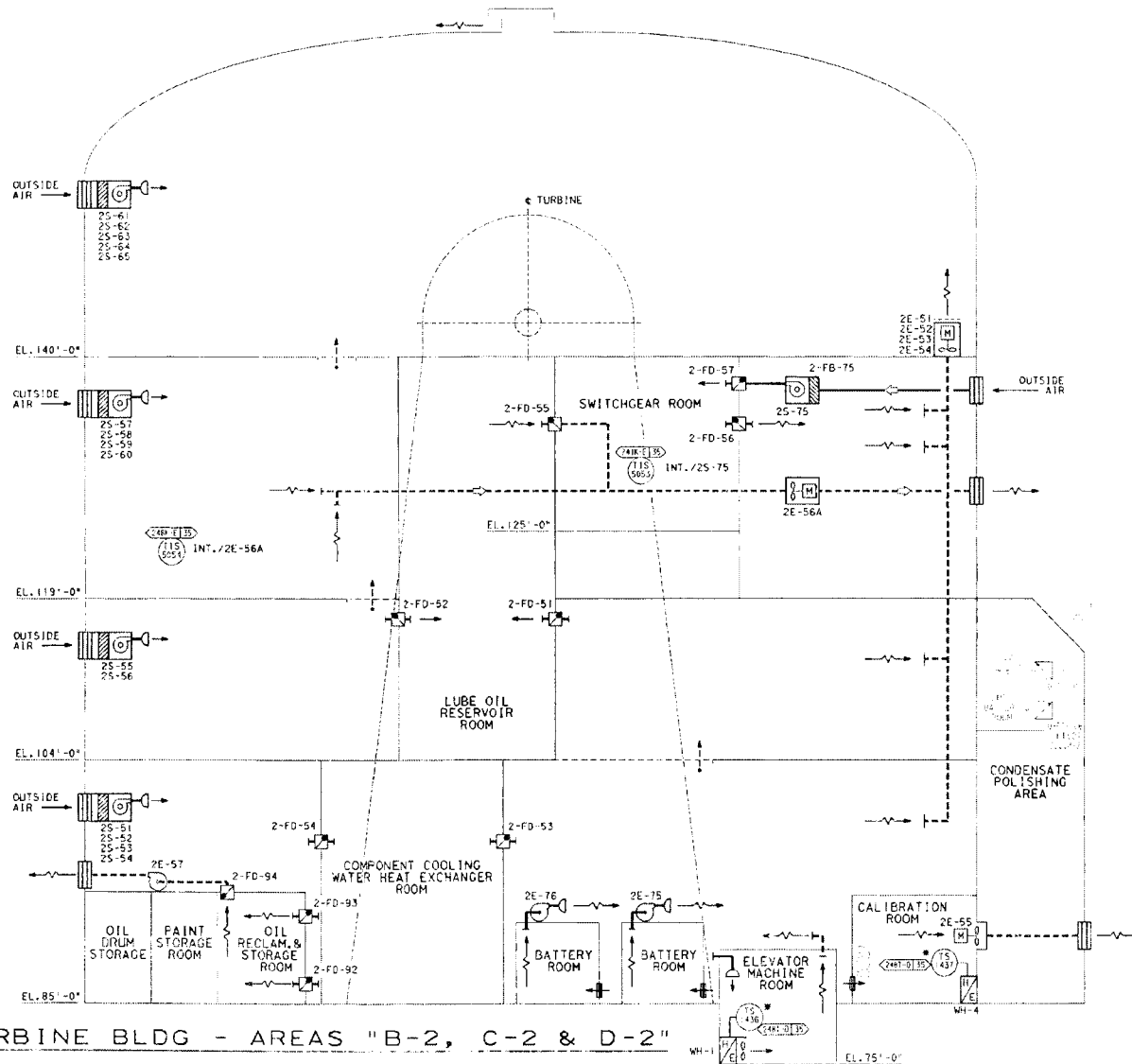


UNIT 2			
DIABLO CANYON POWER PLANT - PG&E CO.			
VENTILATION & AIR CONDITIONING SYSTEMS			
DRAWING	SHEET	PAGE	REV.
108023	18A	0	48

108023-18A.dgn
108023-18B.dgn
JARO 03-13-2008

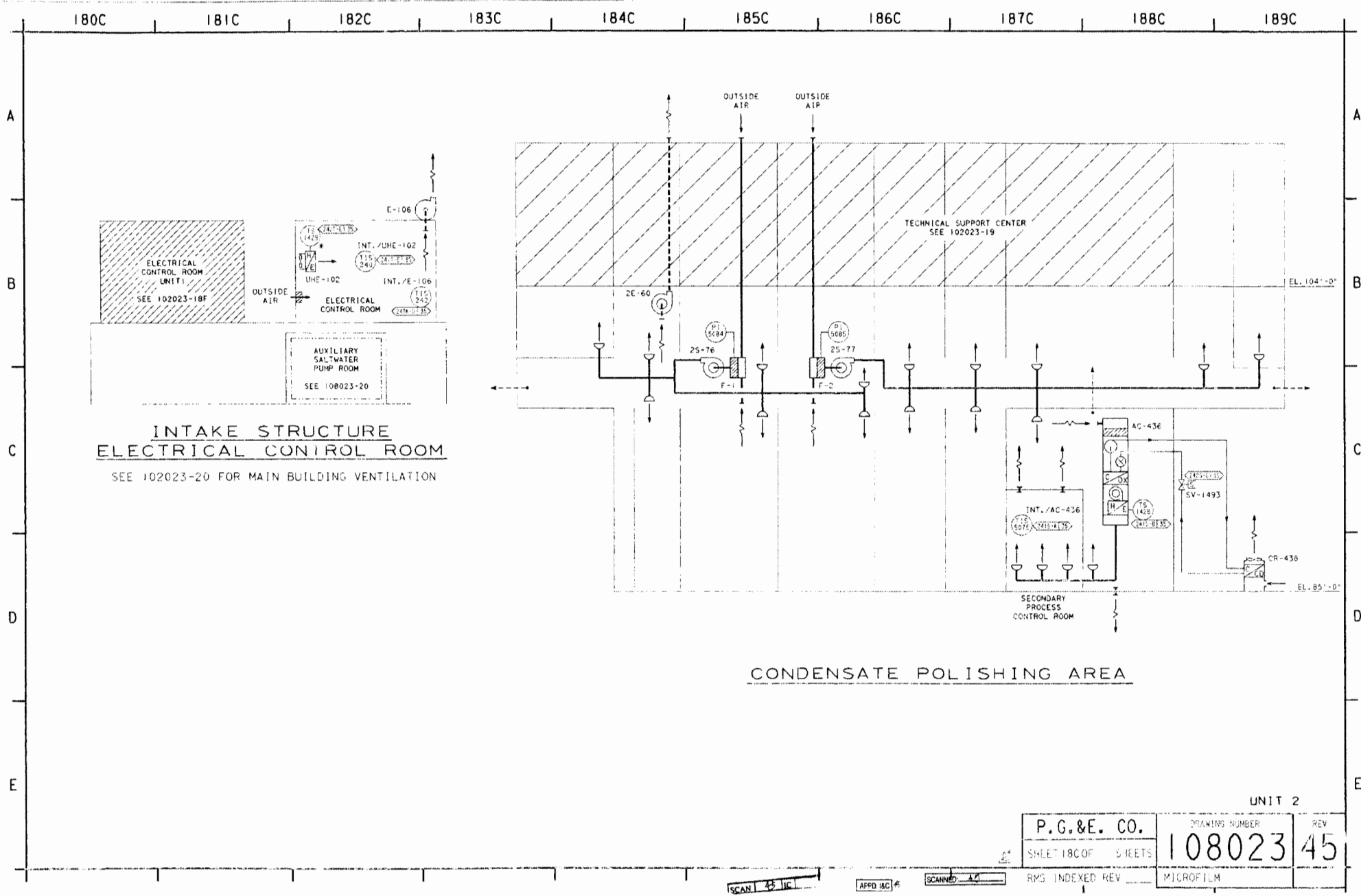
03-13-2008	JARO	PRC2	KERSI J. DALAL	MECHANICAL	M 16690	3-13-2008	REVISED PER PCT-33309
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180B 181B 182B 183B 184B 185B 186B 187B 188B 189B



TURBINE BLDG - AREAS "B-2, C-2 & D-2"

UNIT 2			
VENTILATION AIR FLOW DATA			
ROOM	UNIT	FLOW	TYPE
1000	25	100	100



190

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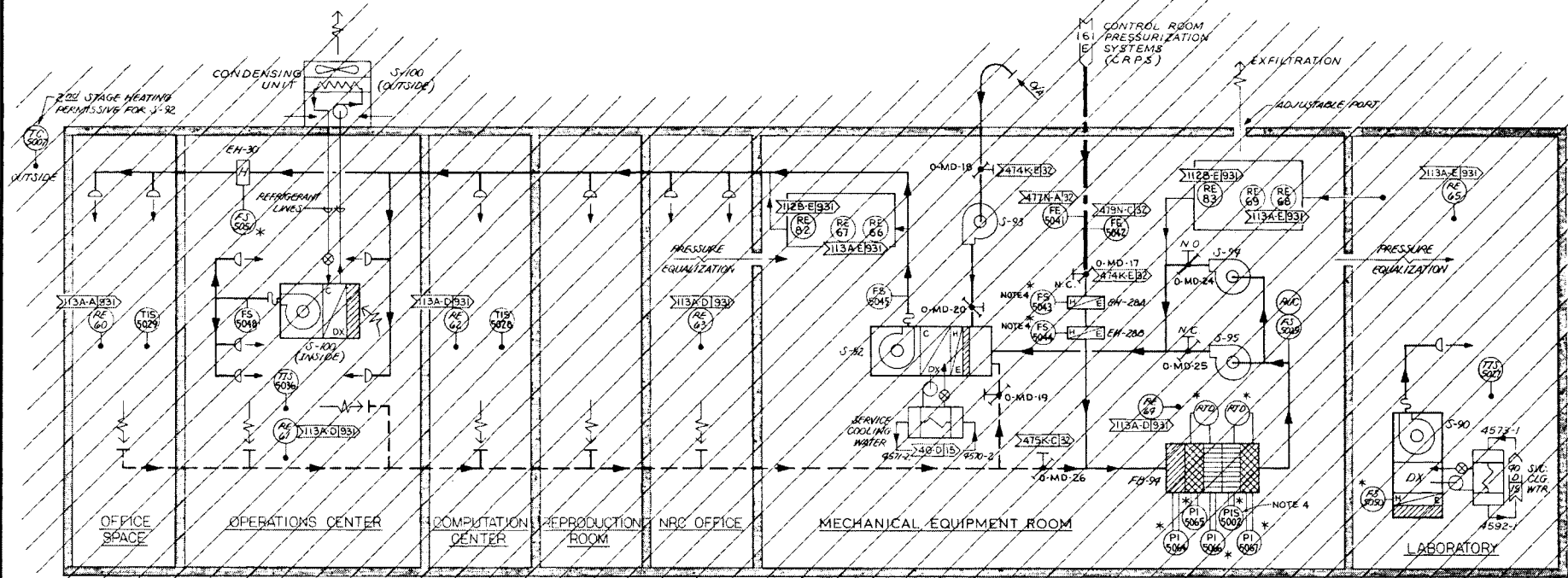
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NOTES:

- 1.
- 2 FOR LEGEND, ABBREVIATIONS, & GENERAL NOTES, SEE SHEET 2 (108023) OR SHEET 3 (108001).
- 3 SEE DRAWING 512904 FOR TECHNICAL SUPPORT CENTER FLOW DIAGRAM.
- 4 ABANDONED IN PLACE.

CROSS-HATCHED AREAS ARE COMMON & ARE NO LONGER UPDATED ON THIS UNIT 2 SHEET. SEE UNIT 1, 102023 SH. 19 FOR CURRENT VERSION OF THIS DRAWING.

TECHNICAL SUPPORT CENTER HVACS
(COMMON AREA)
EL 104'-0"

COMMON
(UNIT 1 & 2)

P.G.&E. CO.

SHEET 19 OF SHEETS

DRAWING NUMBER

108023

REV

17

RMS INDEXED REV 1/6

MICROFILM

1/6

NUCLEAR SAFETY RELATED

DATE: 10/10/1980

WP 25

1. The purpose of this document is to provide a summary of the nuclear safety related information contained in the attached documents.

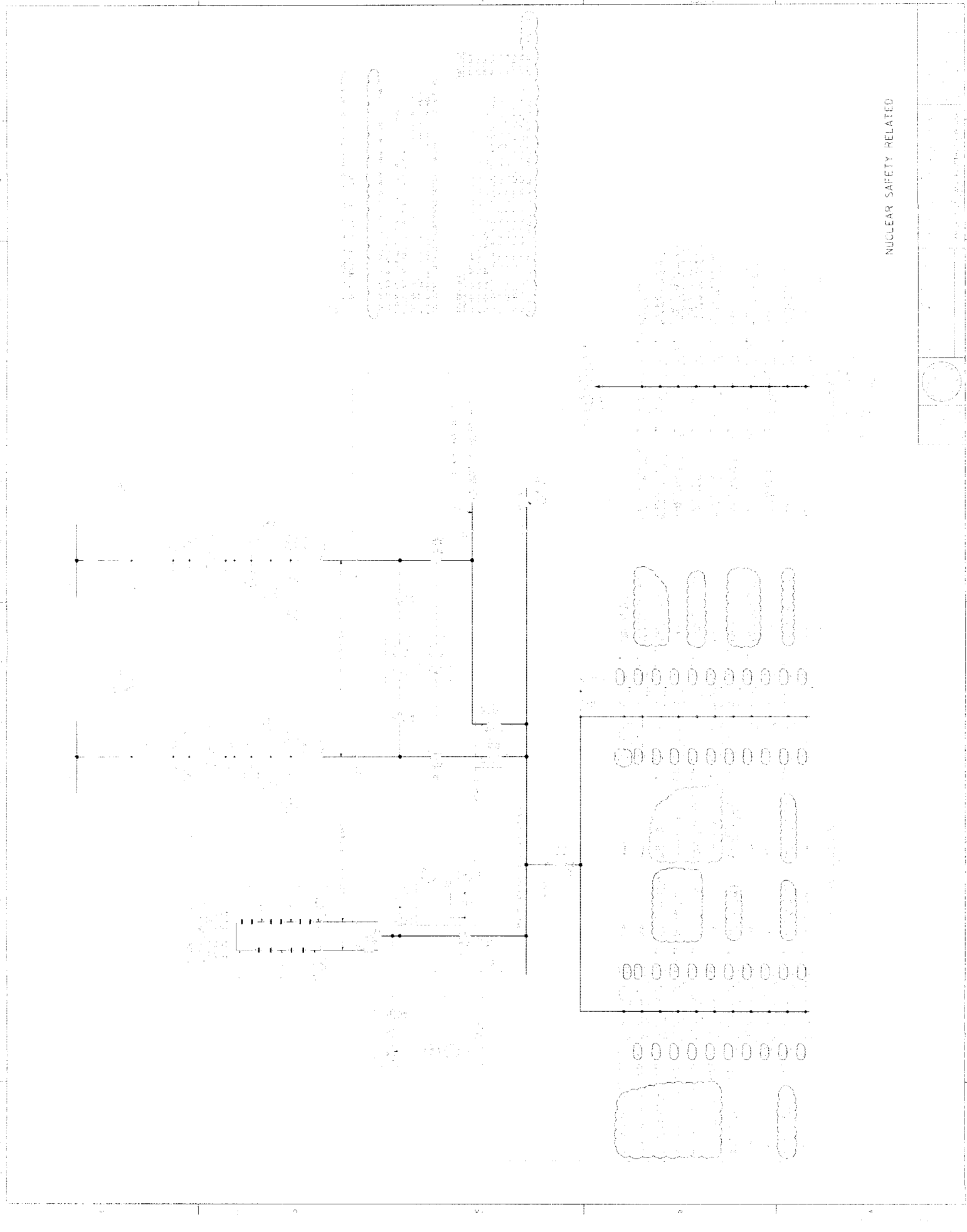
2. The information is organized into two main sections: (a) General Information and (b) Specific Information. The General Information section contains information on the nuclear safety program, the nuclear safety committee, and the nuclear safety manual. The Specific Information section contains information on the nuclear safety related activities of the various departments and divisions.

3. The General Information section contains information on the nuclear safety program, the nuclear safety committee, and the nuclear safety manual. The Specific Information section contains information on the nuclear safety related activities of the various departments and divisions.

4. The information is organized into two main sections: (a) General Information and (b) Specific Information. The General Information section contains information on the nuclear safety program, the nuclear safety committee, and the nuclear safety manual. The Specific Information section contains information on the nuclear safety related activities of the various departments and divisions.

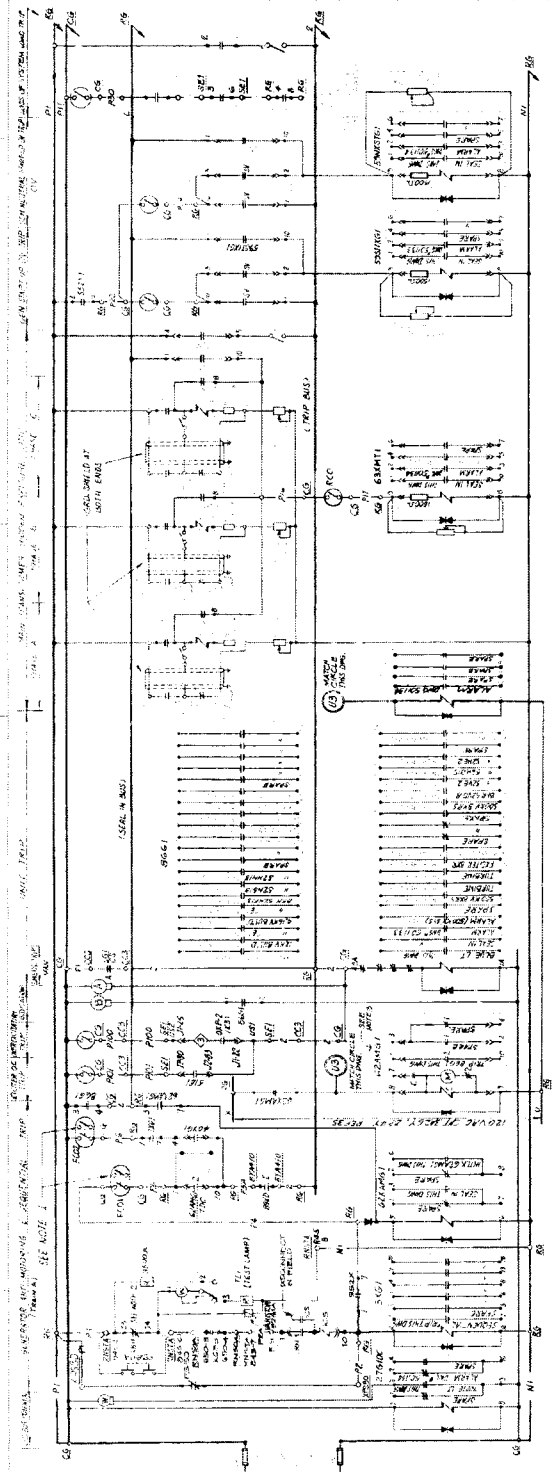
5. The information is organized into two main sections: (a) General Information and (b) Specific Information. The General Information section contains information on the nuclear safety program, the nuclear safety committee, and the nuclear safety manual. The Specific Information section contains information on the nuclear safety related activities of the various departments and divisions.

6. The information is organized into two main sections: (a) General Information and (b) Specific Information. The General Information section contains information on the nuclear safety program, the nuclear safety committee, and the nuclear safety manual. The Specific Information section contains information on the nuclear safety related activities of the various departments and divisions.

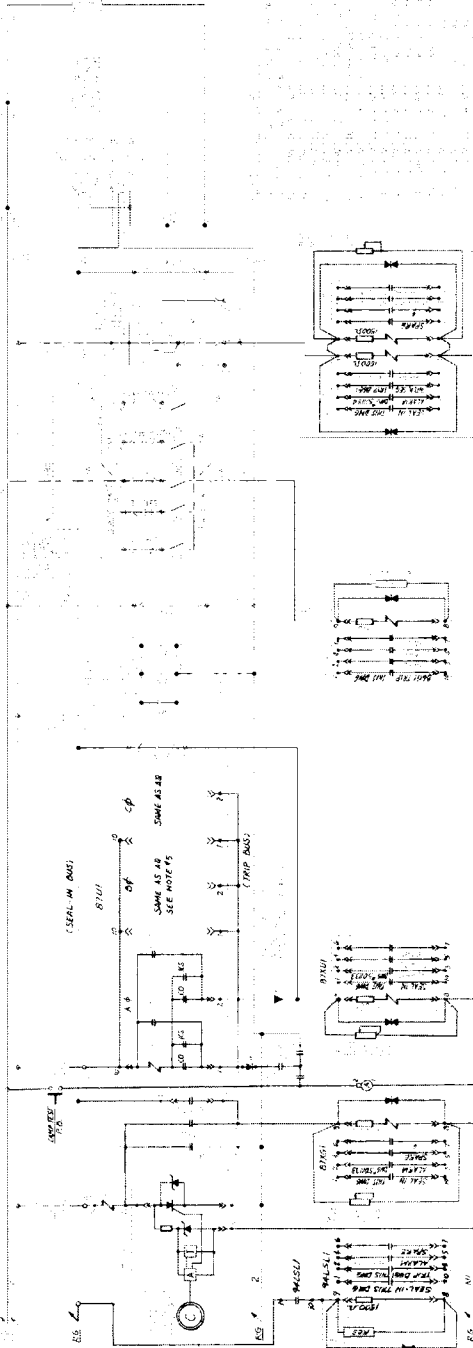


NUCLEAR SAFETY RELATED





CXT N° GMI



CXT N° GMI

[illegible][illegible]

MON

1. FUSE PROVIDES ISOLATION FOR CABLE SPREADING ROOM FIRE WHEN TRANSFERRED TO ASD PANEL

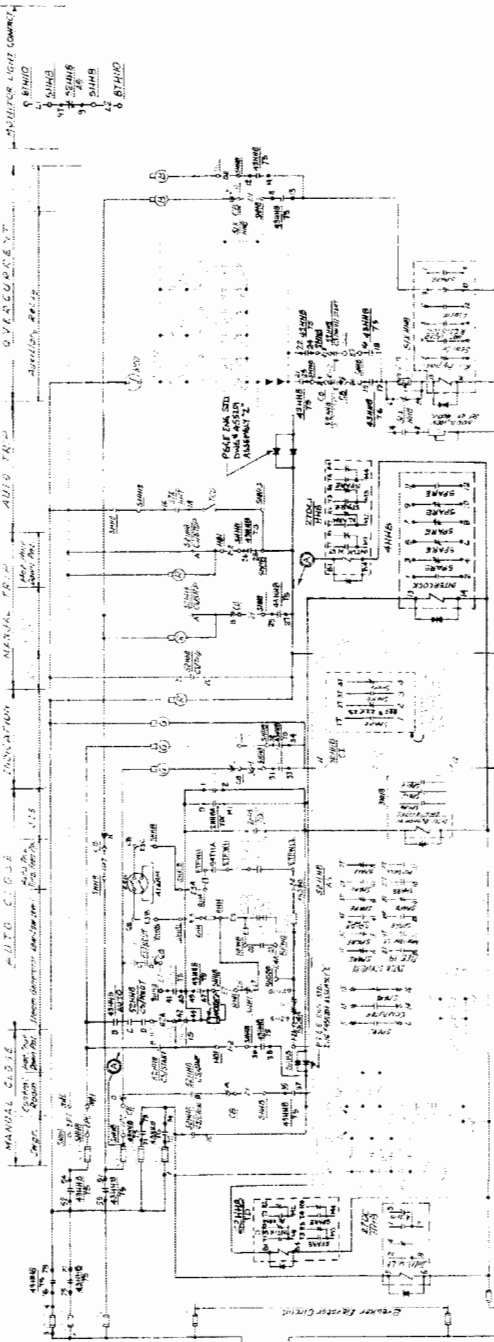
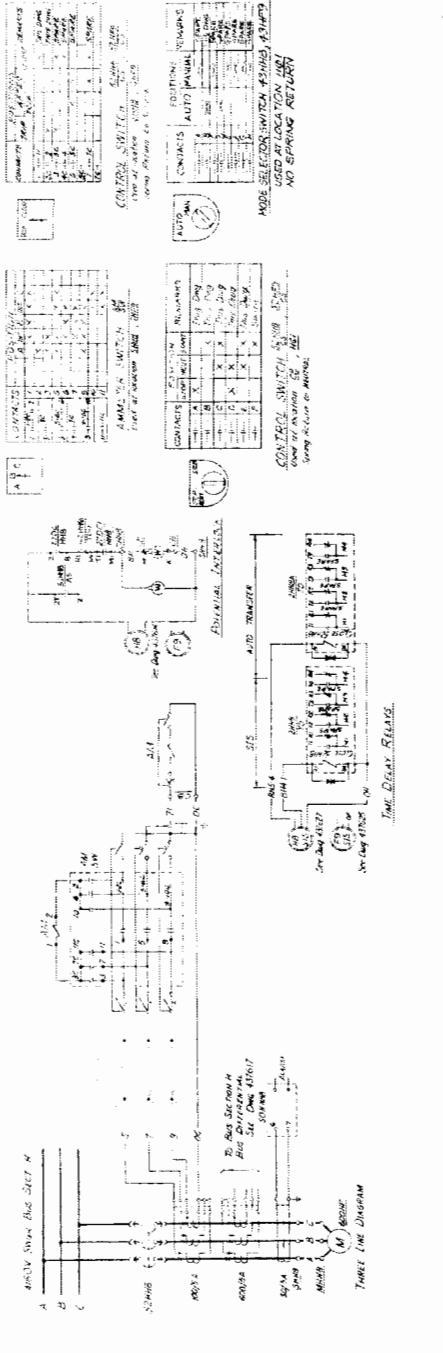
EQUIPMENT LOCATION NUMBERS

- (15) Control Board, Converter & Feeder
M21 Hot Shot Down Pressure Control Panel 1
M210 Auxiliary Feeder Pump #10
M2100 Switchgear 4KV Bus #1, Cabinet 8
M2101 Engineer Safety Jumper Relay Board Bus
E2101 Equipment Cabinet #10 Feeder #11
R2101 Nuclear Safeguards Input Panel - Train
S2101 Terminal Box Area #1 NO 110

REFERENCES

- [illegible]

NUCLEAR SAFETY RELATED

[illegible]

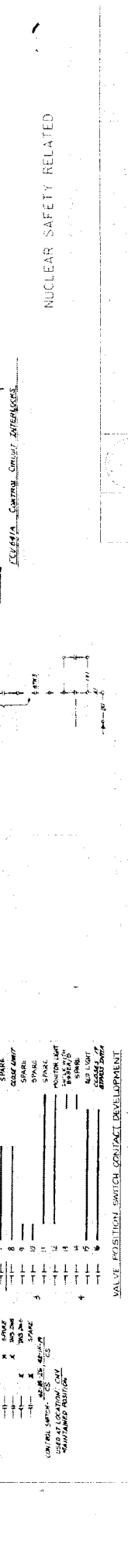
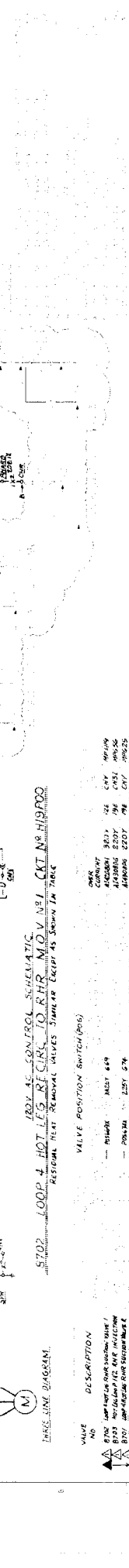
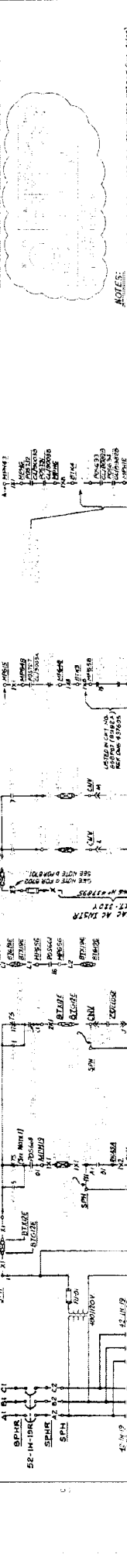
TRANSFER SWIVEL: 434MB, 95HF9
LOC. 5MB, 95HF9

NEW & CONTINUED SCHEMATIC

MAX BY FEEDING CHANG IN CIRCULAR MOTION

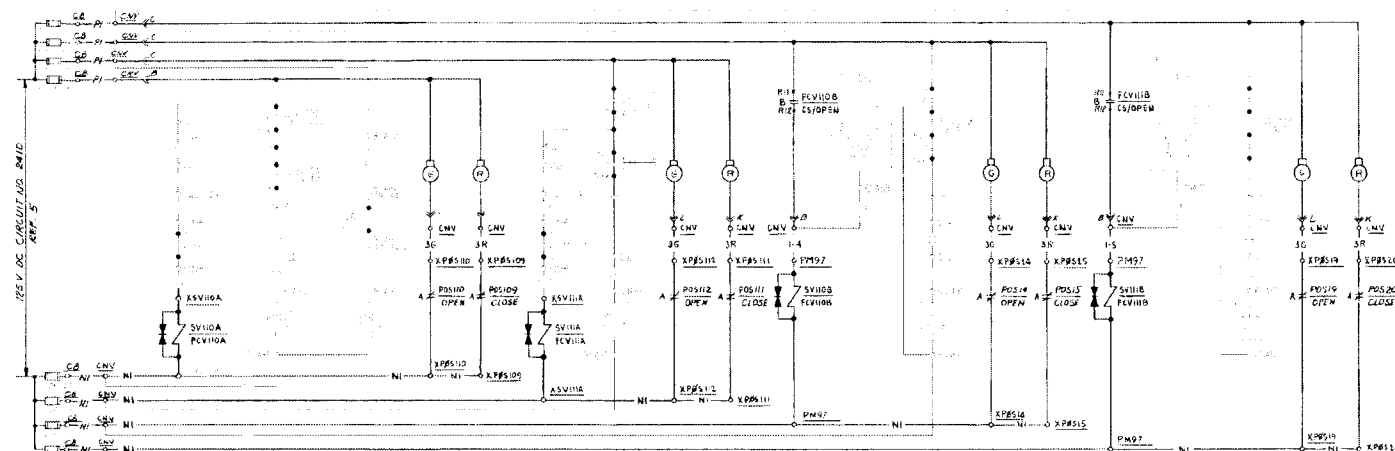
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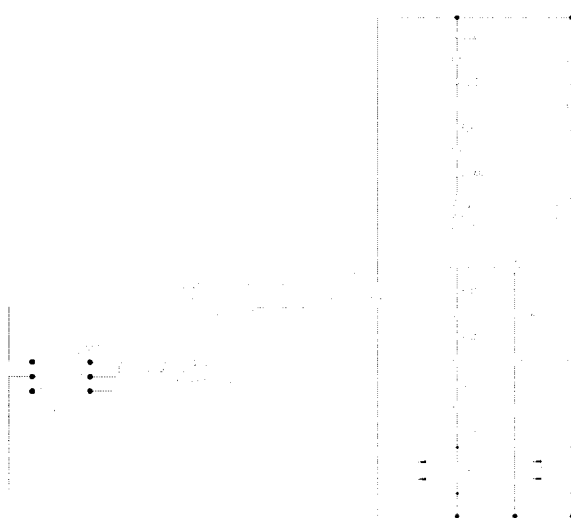
[illegible]

FOR VALVES 8700 A/B
ACTUAL SECTIONS ARE IN PIM#4

REACTOR COOLANT MAKE-UP SYSTEM CONTROL CIRCUIT



REACTOR COOLANT MAKE-UP SYSTEM VALVES



CONTROL SWITCH KSXV10A
USED AT LOCATION CNV
NO SPRING RETURN

CONTROL SWITCH KSXV10B
USED AT LOCATION CNV
NO SPRING RETURN



CONTROL SWITCH KSXV10B
USED AT LOCATION CNV
NO SPRING RETURN

EQUIPMENT LOCATION NUMBERS

- CSZ CONTROL CONSOLE - DEMONSTRATOR & MAKE-UP WATER
- CNV CONTROL BOARD - CHEMICAL & VOLUME CONTROL
- PM97A RACK NUCLEAR - AUXILIARY RELAY COILS A
- PM98 RACK NUCLEAR - CONTROL SET COILS B
- KSXV10A INSTRUMENT SWITCH (LOCAL MOUNTED)

REFERENCE DRAWINGS

- DESCRIPTION OF S.E.T. SCHEMATIC DIAG. SYMBOLS & EXT. DESIGNATIONS - DWG. # 101900
- EQUIPMENT LOCATION NUMBERS - DWG. # 101900
- PI-PAN SCHEMATIC - CHEMICAL & VOLUME CONTROL SYSTEM - DWG. # 101900
- INSTRUMENT SCHEMATIC - INSTRUMENTATION SYSTEMS - DWG. # 101900
- SINGLE LINE METER & RELAY - 125 V.D. - DWG. # 449075
- SCHEMATIC DIAGRAM - CHEMICAL & VOLUME CONTROL SYSTEM - SHEET 1 - DWG. # 449075
- SINGLE LINE METER & RELAY DIAG. - INSTR. & C. SYSTEM - DWG. # 449075
- ILLUSTRATIVE DIAGRAMS - DWG. # 449075

TABLE OF CONTENTS

[illegible][illegible][illegible]

SW68 4.5V 2015 F-100S
4PC V MCC 1 R45S 20
DELL GEN 15 CONTACTOR
DELL GEN 15 CONTACTOR
DELL GEN 15 AUR 1500 N
DELL 20

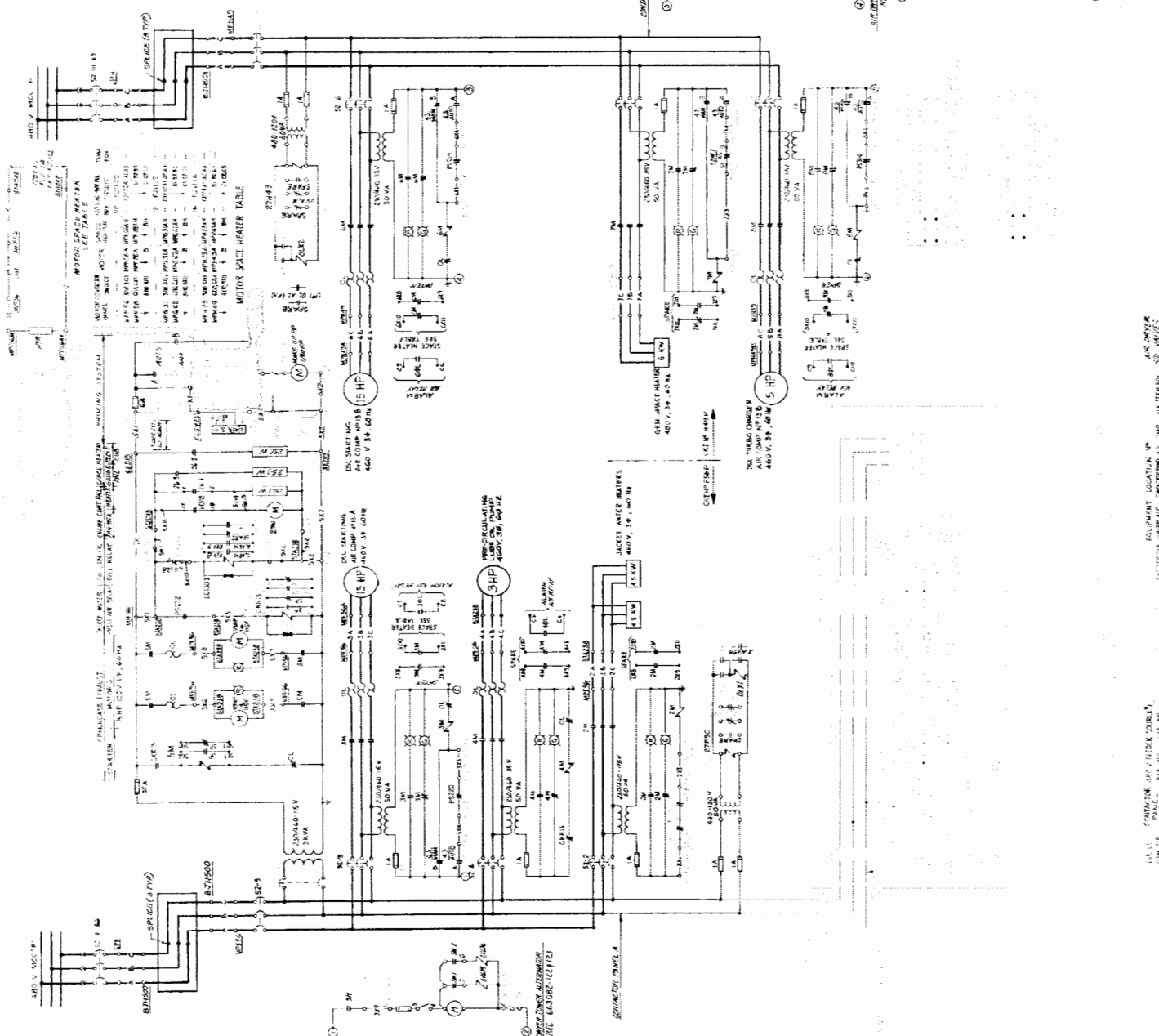
REFERENCES

ASSOCIATION OF PROFESSIONAL MARKETING MANAGERS
JOURNAL AND RESEARCH & RELAY BOARD AND A SYSTEMS
PESTL GEN IS PRIMING SYSTEMS
MAGAZINE

16. DASHLEY & PAUL, SPHERULE LIGHTING BEHAVIOR

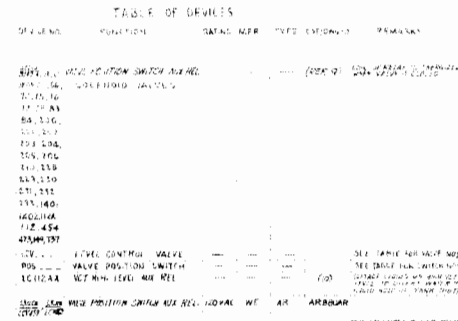
EZ18221 - BQI
20210609 H.W. 2021

NUCLEAR SA



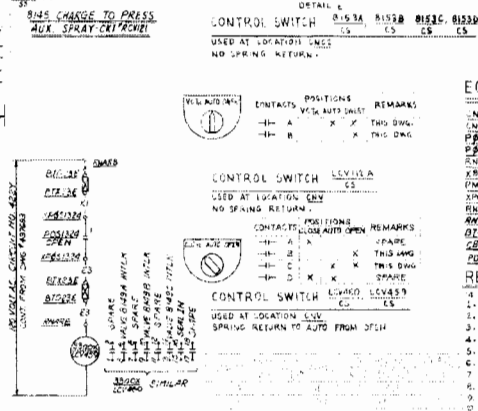
NOTICE: EARLY SAFETY RE-ENTRY

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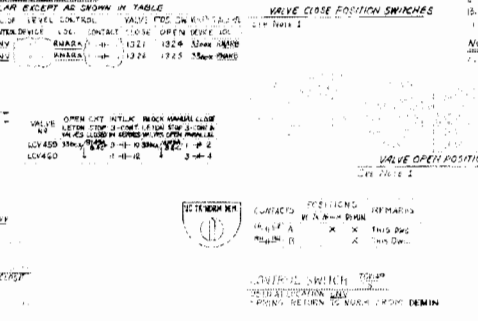


LCV112A VCT INLET VALVE - CIRCUIT - NO. RCV139

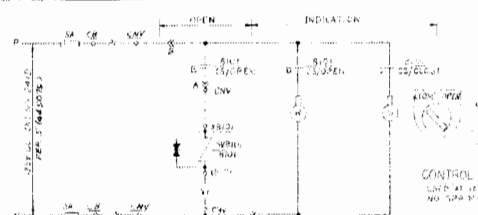
VALUE	NO OPEN ON LOW LEVEL				AUTO CLOSE ON HI LEVEL			
N#	DEV	N#	LOC	CONT.	DEV	N#	LOC	CONT.
R153A	LC478	<u>ALC478</u>	—H—		LC479	<u>ALC479</u>	—H—	
R153B	LC480	<u>ALC480</u>	—H—		LC481	<u>ALC481</u>	—H—	
B157C	LC482	<u>ALC482</u>	—H—		LC483	<u>ALC483</u>	—H—	
S153D	LC484	<u>ALC484</u>	—H—		LC485	<u>ALC485</u>	—H—	



LLV459 REGENERATIVE HEAT EXCHANGER LETDOWN INLET - CKT. NO. RCV125

[illegible]

7-1-49 - LETDOWN TEMP. INVERSION JLV. LMT. NO. 40220

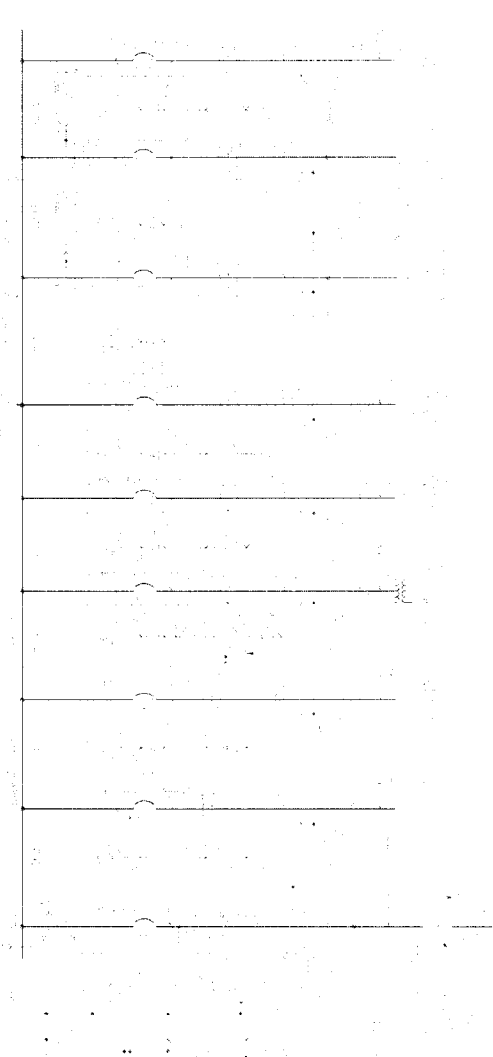
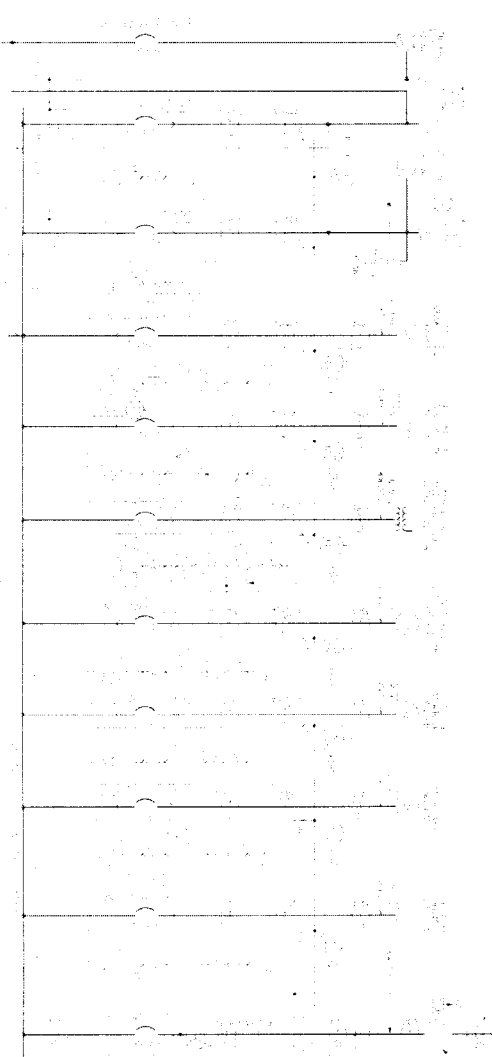


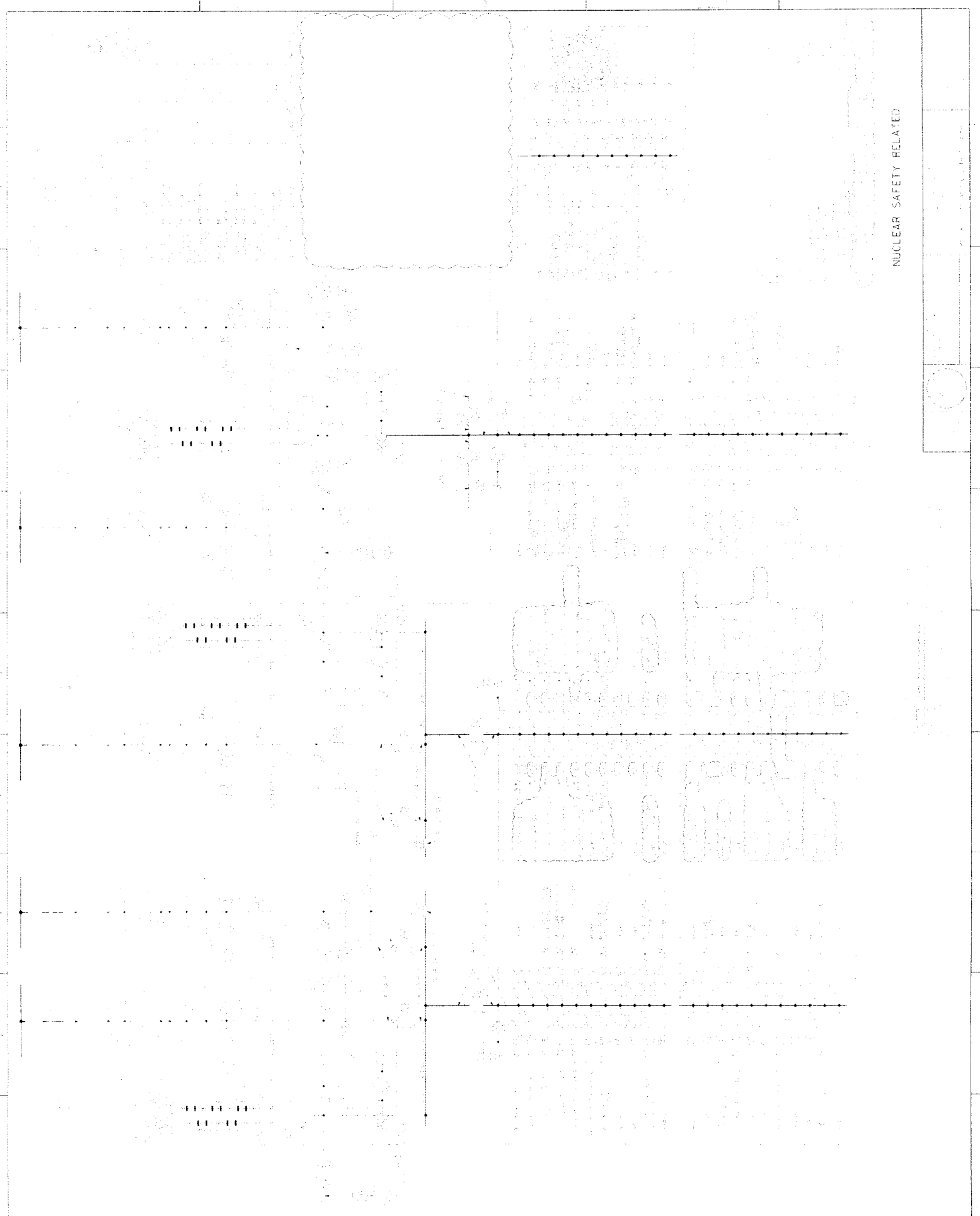
5 OF VOLUME CONTROL TANK TO VENT HEADER - 10" NO RLV30

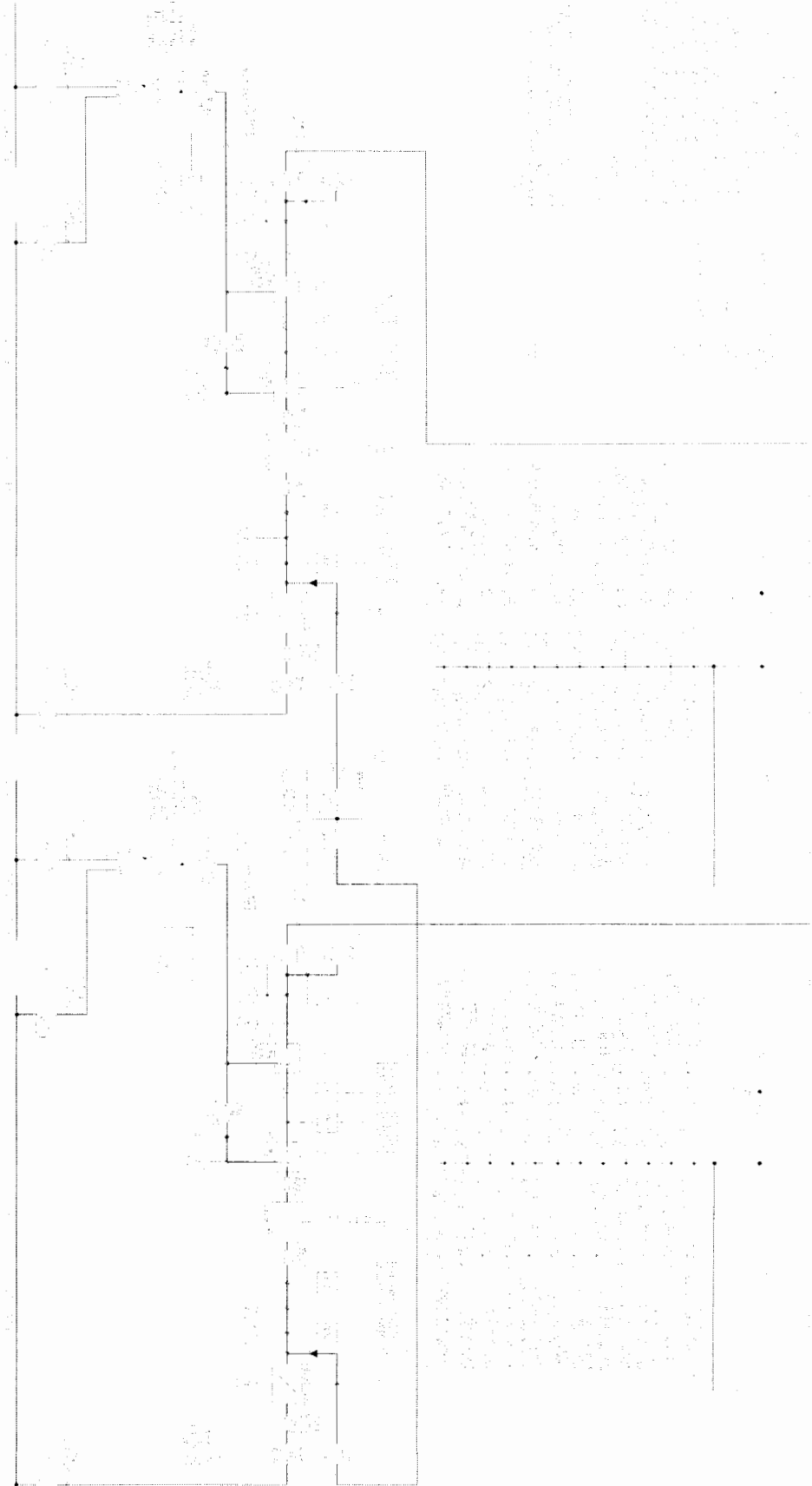
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NUCLEAR SAFETY RELATED

The map shows the northern Adriatic coastline of Italy. Sampling stations are numbered 1 to 10 from west to east. A scale bar indicates 0 to 100 km. A north arrow is present in the top right corner.

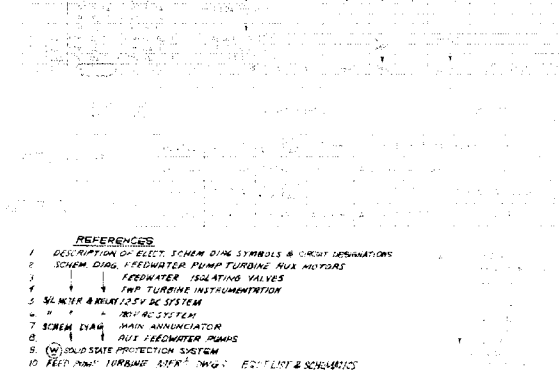
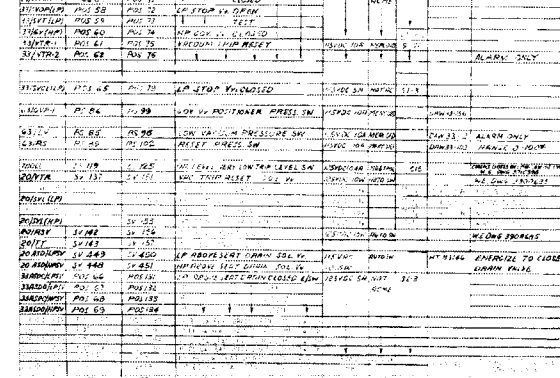
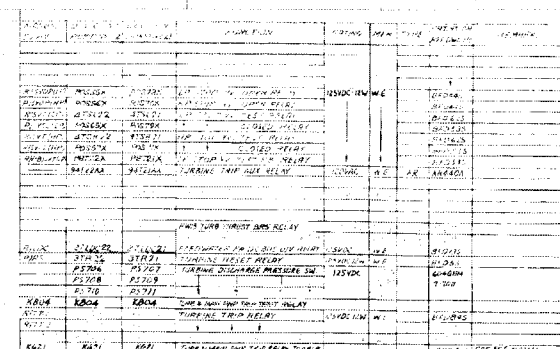






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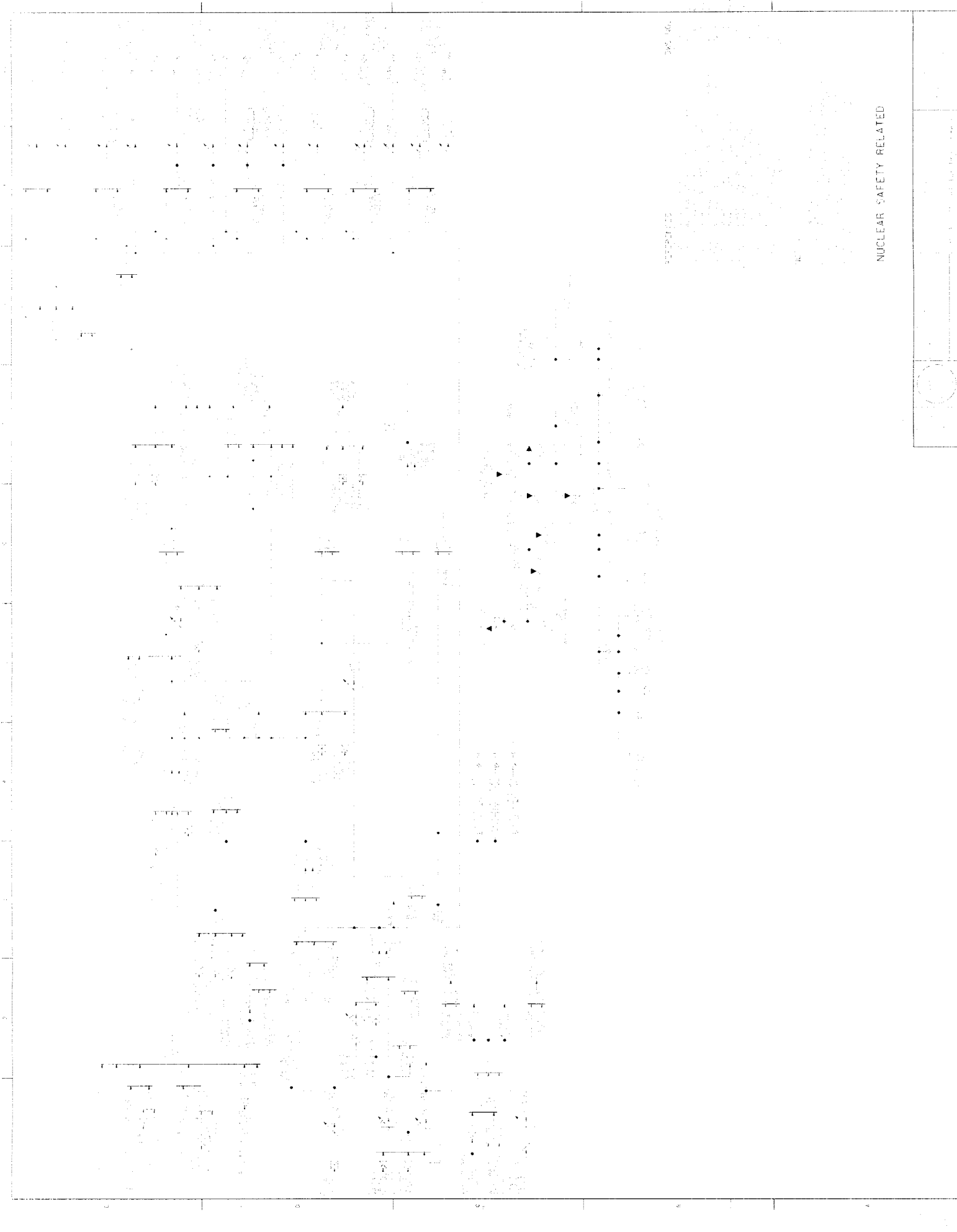


EQUIPMENT LOCATIONS

CG-CONTROL BOARD (CONDENSATE & FEEDWATER)
BUSB-BASE NUCLEAR SAFETY ARD DISCONNECT 1
RTNTR-LOCAL CONT CONDENSE FEEDWATER (MID PPMZC22270)
CTNTR-LOCAL CONTROL BOARD FEEDWATER TURB PPMZC22270
SP1-480V MCC NO. 2 BUS SECTION "E"
SP4-480V MCC NO. 2 BUS SECTION "H"
PMS-MECHANICAL ROOM 33

NOTES

1. CKTS, LOC CODE & CONTROL NO IN PARENTHESES APPLY FOR FWP # 21
2. USE 2 NO. CONTACTS OF PUSHBUTTON IN SERIES (NOT DIS IN FOR SIMPLICITY)

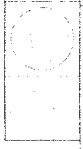


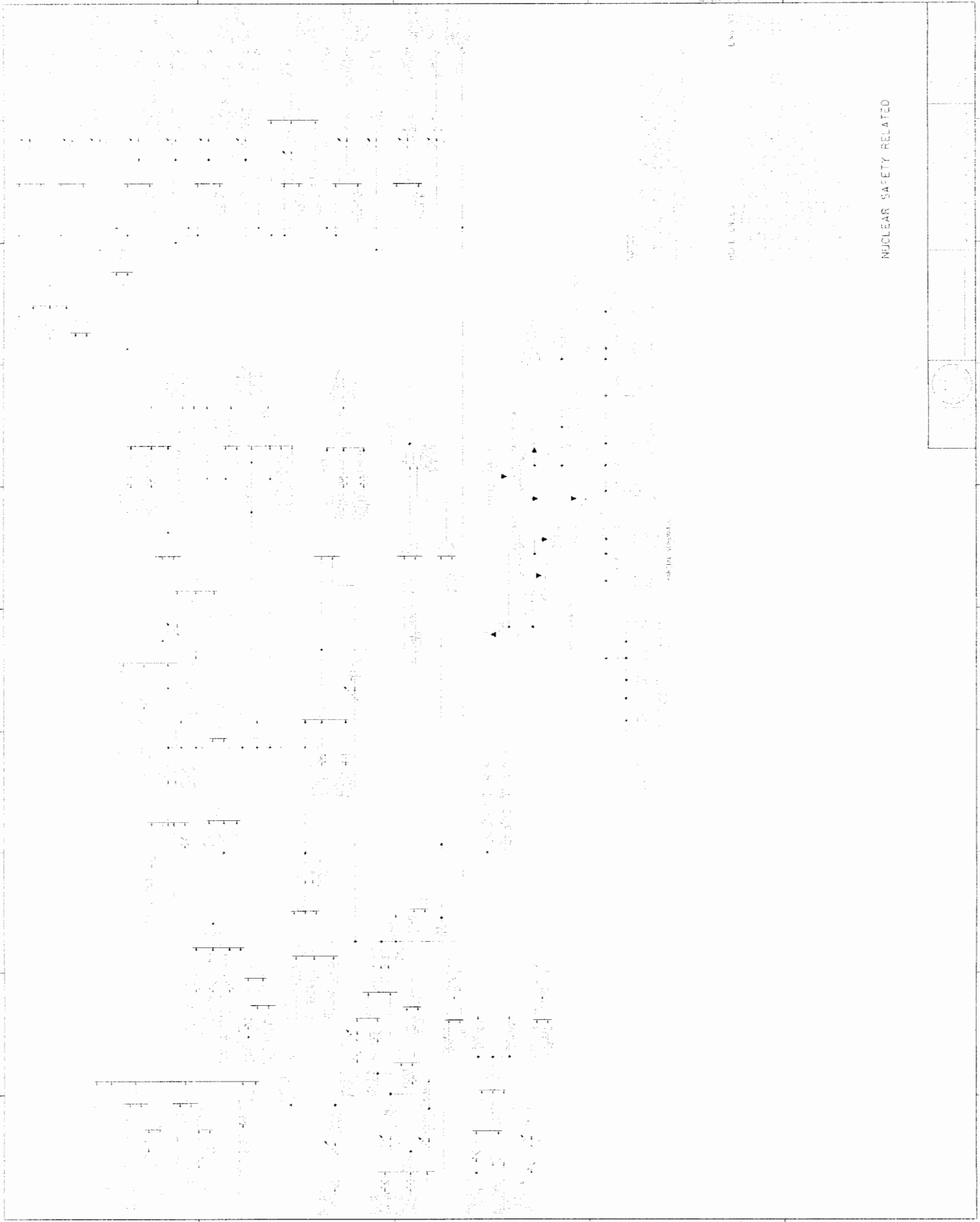
300 160

300 160

160

NUCLEAR SAFETY RELATED





NUCLEAR SAFETY RELATED

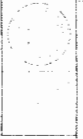


TABLE OF DEVICES

[illegible]

EQUIPMENT LOCATION NUMBERS

- 480V MOTOR CONTROL CENTER BUS SECTION 26
- MOTOR OPERATED VALVE LCV106
- CONTROL BOARD, CONDENSATE & FEEDWATER
- HOT SHUTDOWN CONTROL PANEL, FEEDWATER
- INSTR. #8 LCV116, FEED. HOT HYDRAULIC ACTUATOR

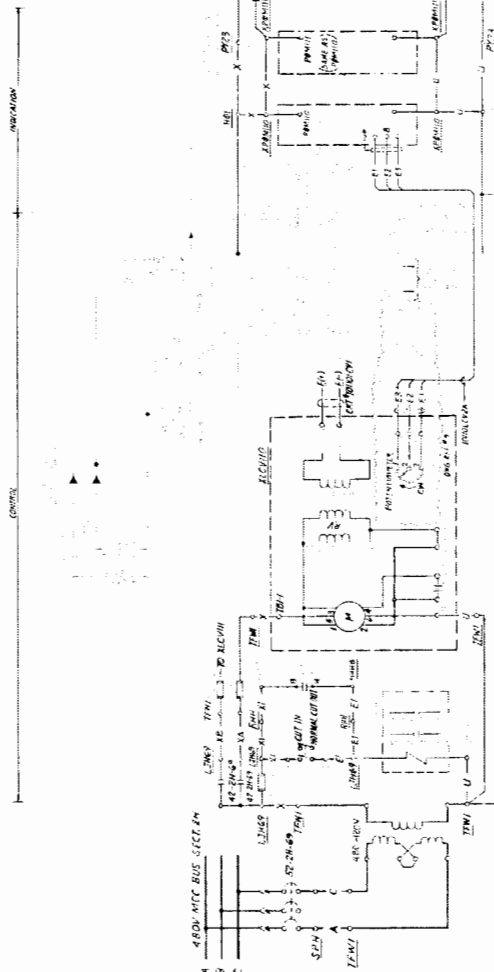
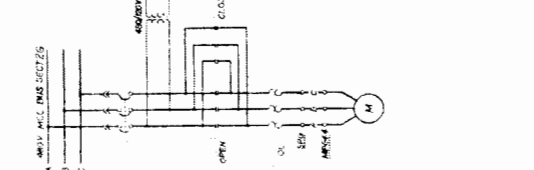
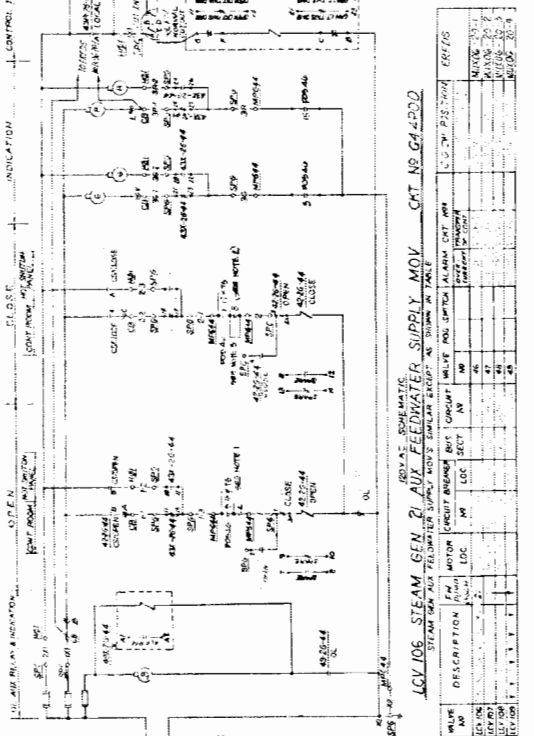
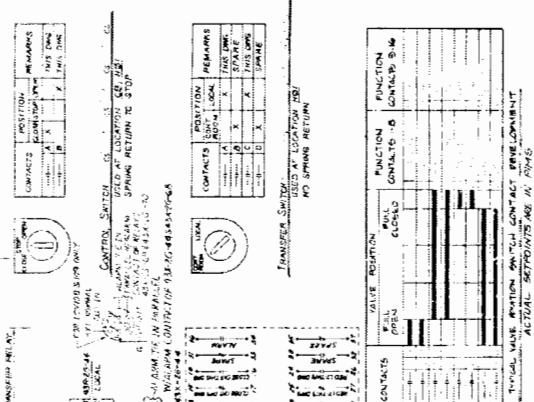
VOTES

- * CLOSING CYCLE OR FULLY CLOSURE VALVE
FIELD TO START. NUMBER IN TABLES MEANS TO BE SURVEYED.

REFERENCE DRAWINGS

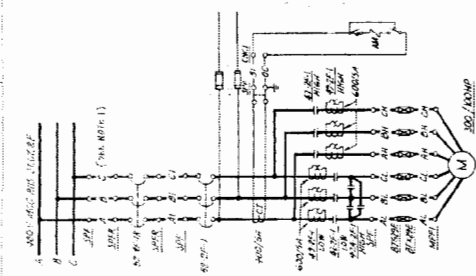
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511A27 611A27 111A27 011A27
601A27 601A27 101A27 001A27



LCV 110 STEAM GEN 21 AUX FEEDWATER SUPPLY

VALVE NO	DESCRIPTION	P.M. SUMP GROUP	VALVE LOC	120V MASTER AL	CONTROLLER	ELECTRO-HYDRAULIC OPERATING A MODULATING SIGNAL CRT	TRANSFER TO 200-200	100% CL CONTACTOR	100% IN	REMARKS
1	LEVING STOP	1	LOC	ST. MS	LOC	LOC	LOC	LOC	LOC	100% IN
2	LEVING STOP	1	LOC	ST. MS	LOC	LOC	LOC	LOC	LOC	100% IN
3	LEVING STOP	1	LOC	ST. MS	LOC	LOC	LOC	LOC	LOC	100% IN
4	LEVING STOP	1	LOC	ST. MS	LOC	LOC	LOC	LOC	LOC	100% IN
5	LEVING STOP	1	LOC	ST. MS	LOC	LOC	LOC	LOC	LOC	100% IN
6	LEVING STOP	1	LOC	ST. MS	LOC	LOC	LOC	LOC	LOC	100% IN
7	LEVING STOP	1	LOC	ST. MS	LOC	LOC	LOC	LOC	LOC	100% IN
8	LEVING STOP	1	LOC	ST. MS	LOC	LOC	LOC	LOC	LOC	100% IN
9	LEVING STOP	1	LOC	ST. MS	LOC	LOC	LOC	LOC	LOC	100% IN
10	LEVING STOP	1	LOC	ST. MS	LOC	LOC	LOC	LOC	LOC	100% IN
11	LEVING STOP	1	LOC	ST. MS	LOC	LOC	LOC	LOC	LOC	100% IN
12	LEVING STOP	1	LOC	ST. MS	LOC	LOC	LOC	LOC	LOC	100% IN
13	LEVING STOP	1	LOC	ST. MS	LOC	LOC	LOC	LOC	LOC	100% IN
14	LEVING STOP	1	LOC	ST. MS	LOC	LOC	LOC	LOC	LOC	100% IN
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16	LEVING STOP	1	LOC	ST. MS	LOC	LOC	LOC	LOC	LOC	100% IN
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33	LEVING STOP	1	LOC	ST. MS	LOC	LOC	LOC	LOC	LOC	100% IN
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49	LEVING STOP	1	LOC	ST. MS	LOC	LOC	LOC	LOC	LOC	100% IN



CONTAINMENT FAN COOLERS NO. 22 - CIRCUIT NO. FQJ000

CONTAINMENT FAN COOLERS NO. 21, 23 - SAME AS EXCEPT AS SHOWN IN TABLE

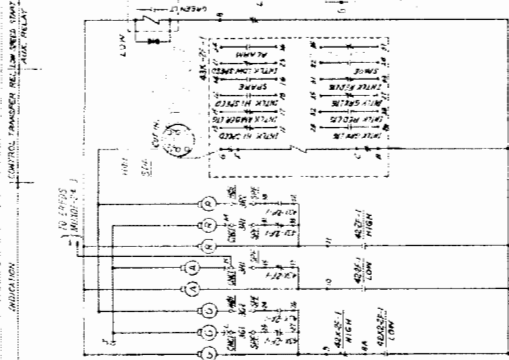


TABLE OF DEVICES

DEVICE NO.	FUNCTION	UNIT	REMARKS
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4	START	RELAY	START RELAY
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96	START	RELAY	START RELAY
97	STOP	RELAY	STOP RELAY
98	START	RELAY	START RELAY
99	STOP	RELAY	STOP RELAY
100	START	RELAY	START RELAY



TRANSFER SWITCH, AIRLINES, 20, 21, 22, 23, 24

USED AT LOCATION 251

IN JUNCTION BOX



CONTROL SWITCH, 251

USED AT LOCATION 251

IN JUNCTION BOX

REFERENCES

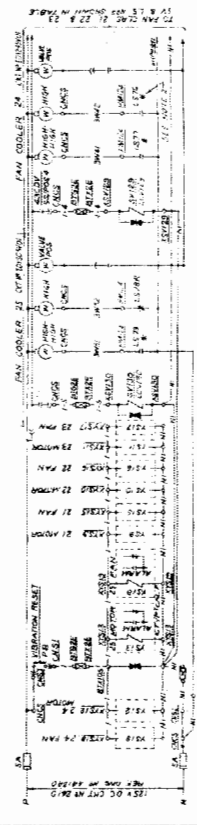
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2. EQUIPMENT LOCATION AND IDENTIFICATION.
3. SINGLE LINE DIAGRAM, 400 BUS SECTION 20.
4. SINGLE LINE DIAGRAM, 400 BUS SECTION 21.
5. SINGLE LINE DIAGRAM, 400 BUS SECTION 22.
6. SINGLE LINE DIAGRAM, 400 BUS SECTION 23.
7. SINGLE LINE DIAGRAM, 400 BUS SECTION 24.
8. SINGLE LINE DIAGRAM, 400 BUS SECTION 25.
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16. INSTRUMENT, SCHEMATIC, LEVEL INSTRUMENT SYSTEM.
17. INSTRUMENT, SCHEMATIC, LEVEL INSTRUMENT SYSTEM.
18. INSTRUMENT, SCHEMATIC, LEVEL INSTRUMENT SYSTEM.
19. BOX DIAGRAM, EIRIS, TECH. SUPPORT CENTER & CONTROL ROOM.
20. BOX DIAGRAM, EIRIS, TECH. SUPPORT CENTER & CONTROL ROOM.

EQUIPMENT LOCATION NUMBERS

1. INSTRUMENT, SCHEMATIC, LEVEL INSTRUMENT SYSTEM.
2. INSTRUMENT, SCHEMATIC, LEVEL INSTRUMENT SYSTEM.
3. INSTRUMENT, SCHEMATIC, LEVEL INSTRUMENT SYSTEM.
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20. INSTRUMENT, SCHEMATIC, LEVEL INSTRUMENT SYSTEM.

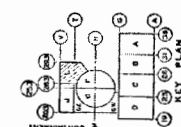
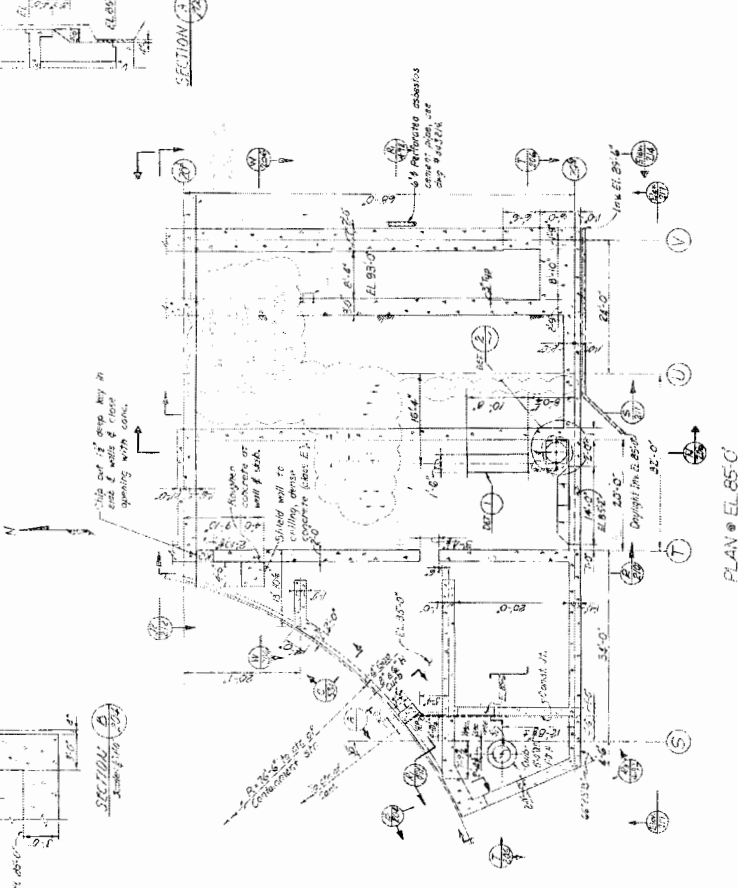
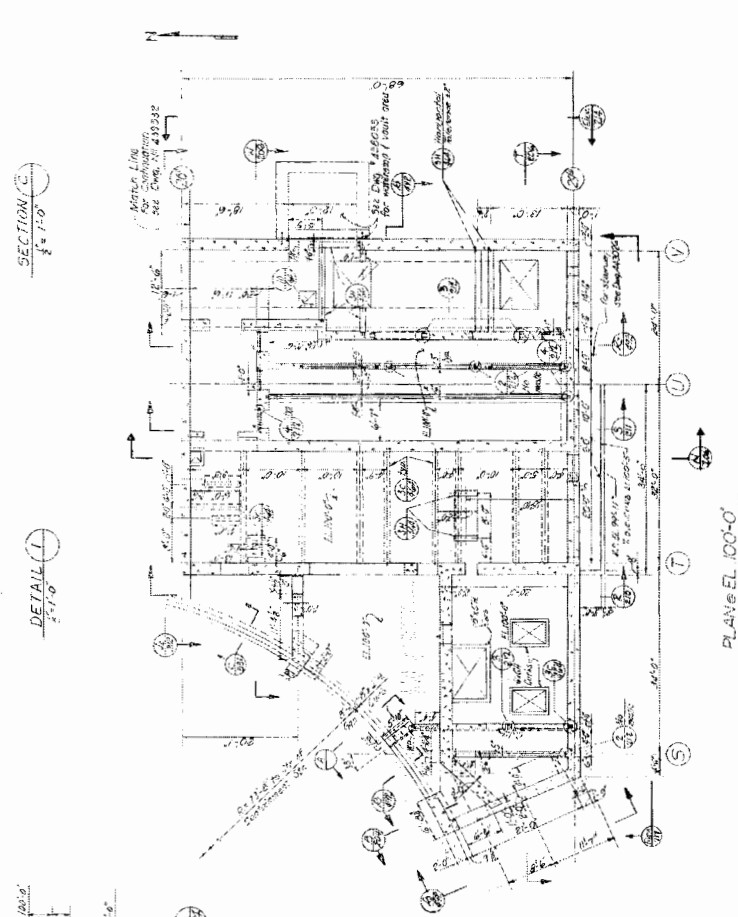
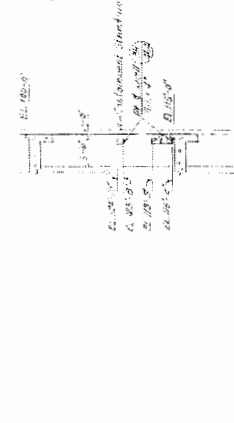
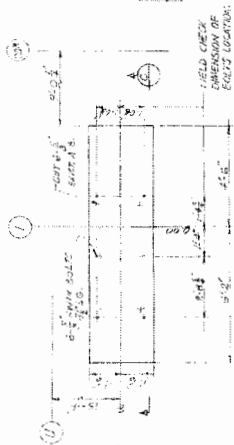
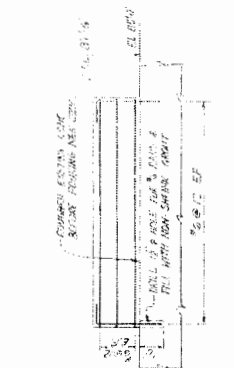
NOTE:
1. INSTRUMENT, SCHEMATIC, LEVEL INSTRUMENT SYSTEM.
2. INSTRUMENT, SCHEMATIC, LEVEL INSTRUMENT SYSTEM.
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20. INSTRUMENT, SCHEMATIC, LEVEL INSTRUMENT SYSTEM.

NUCLEAR SAFETY RELATED



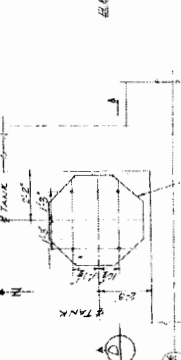
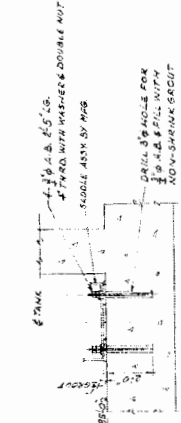
CONTAINMENT FAN COOLERS NO. 21, 22, 23 - CIRCUIT NO. FQJ000

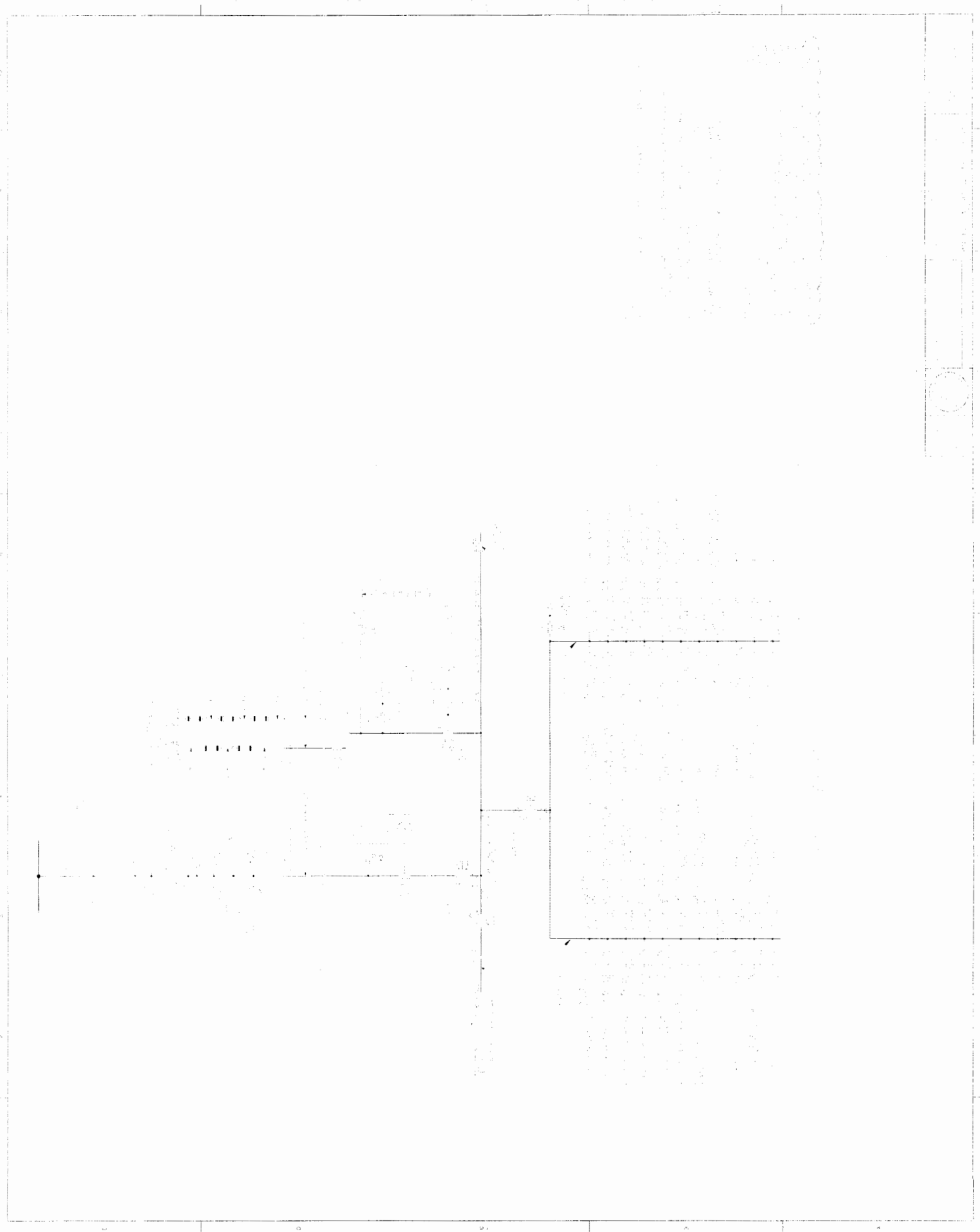
CONTAINMENT FAN COOLERS NO. 21, 22, 23 - SAME AS EXCEPT AS SHOWN IN TABLE

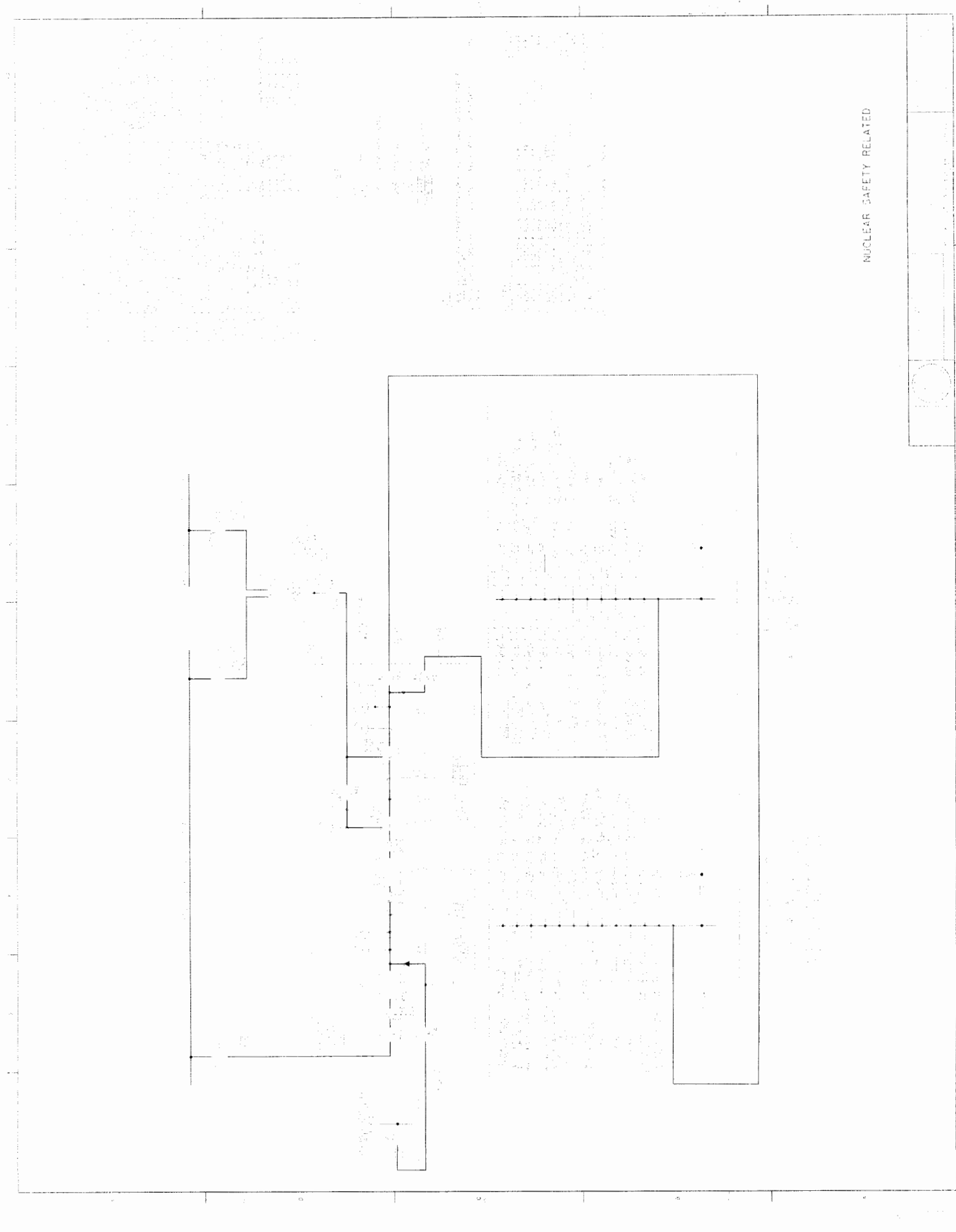


NOTES:
 1. Outline of work building shown in section only is approximate.
 2. All work to be done in accordance with the specifications.
 3. All work to be done in accordance with the specifications.
 4. All work to be done in accordance with the specifications.
 5. All work to be done in accordance with the specifications.

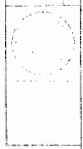
REFERENCE DRAWINGS:
 1. 100'-0" PLAN
 2. 85'-0" PLAN
 3. 80'-0" PLAN
 4. 75'-0" PLAN
 5. 70'-0" PLAN
 6. 65'-0" PLAN
 7. 60'-0" PLAN
 8. 55'-0" PLAN
 9. 50'-0" PLAN
 10. 45'-0" PLAN

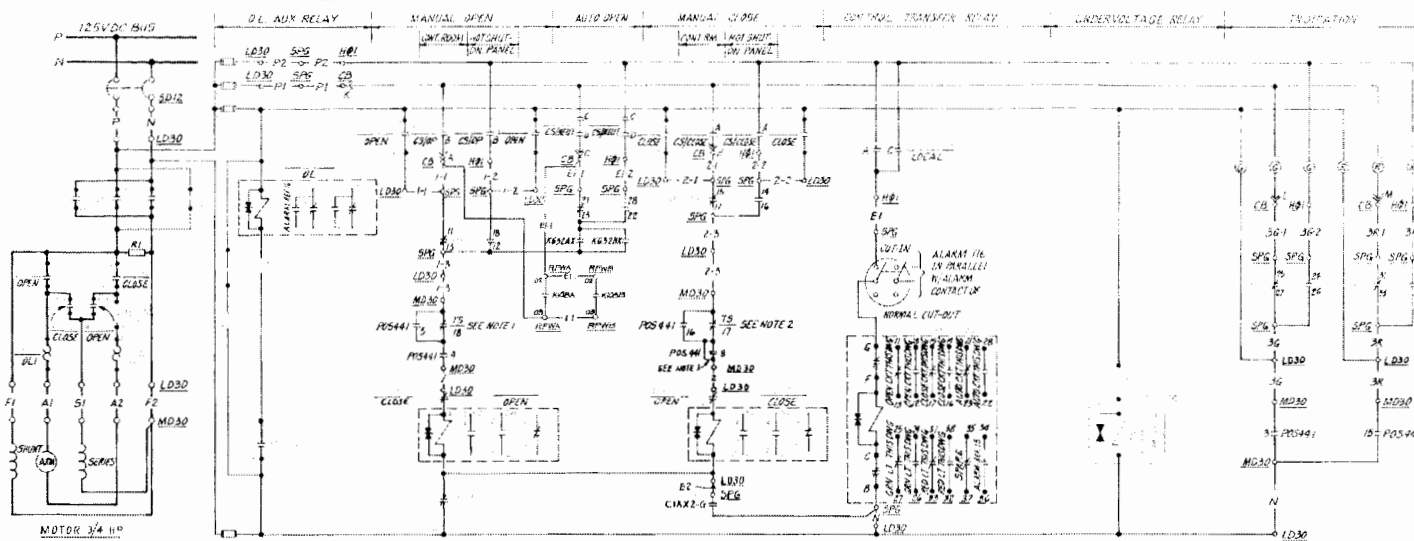






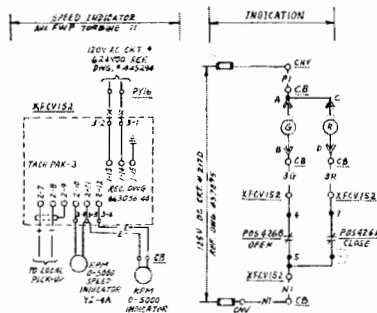
NUCLEAR SAFETY RELATED





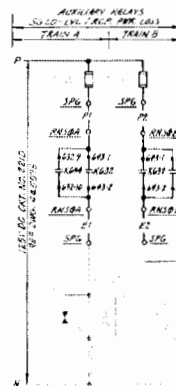
125VDC CONTROL SCHEMATIC
FCV95-AUX FWP TURB II STEAM SUPPLY HEADER MDV. CKT. NO. 2300

ALARM LIGHT NO.	COMPUTER CMT. NO.
ALARM LIGHT NO. 1	COMPUTER CMT. NO. 1
ALARM LIGHT NO. 2	COMPUTER CMT. NO. 2
ALARM LIGHT NO. 3	COMPUTER CMT. NO. 3
ALARM LIGHT NO. 4	COMPUTER CMT. NO. 4
ALARM LIGHT NO. 5	COMPUTER CMT. NO. 5
ALARM LIGHT NO. 6	COMPUTER CMT. NO. 6
ALARM LIGHT NO. 7	COMPUTER CMT. NO. 7
ALARM LIGHT NO. 8	COMPUTER CMT. NO. 8
ALARM LIGHT NO. 9	COMPUTER CMT. NO. 9
ALARM LIGHT NO. 10	COMPUTER CMT. NO. 10
ALARM LIGHT NO. 11	COMPUTER CMT. NO. 11
ALARM LIGHT NO. 12	COMPUTER CMT. NO. 12
ALARM LIGHT NO. 13	COMPUTER CMT. NO. 13
ALARM LIGHT NO. 14	COMPUTER CMT. NO. 14
ALARM LIGHT NO. 15	COMPUTER CMT. NO. 15
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ALARM LIGHT NO. 20	COMPUTER CMT. NO. 20
ALARM LIGHT NO. 21	COMPUTER CMT. NO. 21
ALARM LIGHT NO. 22	COMPUTER CMT. NO. 22
ALARM LIGHT NO. 23	COMPUTER CMT. NO. 23
ALARM LIGHT NO. 24	COMPUTER CMT. NO. 24
ALARM LIGHT NO. 25	COMPUTER CMT. NO. 25
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ALARM LIGHT NO. 32	COMPUTER CMT. NO. 32
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ALARM LIGHT NO. 35	COMPUTER CMT. NO. 35
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ALARM LIGHT NO. 43	COMPUTER CMT. NO. 43
ALARM LIGHT NO. 44	COMPUTER CMT. NO. 44
ALARM LIGHT NO. 45	COMPUTER CMT. NO. 45
ALARM LIGHT NO. 46	COMPUTER CMT. NO. 46
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ALARM LIGHT NO. 52	COMPUTER CMT. NO. 52
ALARM LIGHT NO. 53	COMPUTER CMT. NO. 53
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ALARM LIGHT NO. 57	COMPUTER CMT. NO. 57
ALARM LIGHT NO. 58	COMPUTER CMT. NO. 58
ALARM LIGHT NO. 59	COMPUTER CMT. NO. 59
ALARM LIGHT NO. 60	COMPUTER CMT. NO. 60
ALARM LIGHT NO. 61	COMPUTER CMT. NO. 61
ALARM LIGHT NO. 62	COMPUTER CMT. NO. 62
ALARM LIGHT NO. 63	COMPUTER CMT. NO. 63
ALARM LIGHT NO. 64	COMPUTER CMT. NO. 64
ALARM LIGHT NO. 65	COMPUTER CMT. NO. 65
ALARM LIGHT NO. 66	COMPUTER CMT. NO. 66
ALARM LIGHT NO. 67	COMPUTER CMT. NO. 67
ALARM LIGHT NO. 68	COMPUTER CMT. NO. 68
ALARM LIGHT NO. 69	COMPUTER CMT. NO. 69
ALARM LIGHT NO. 70	COMPUTER CMT. NO. 70
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ALARM LIGHT NO. 72	COMPUTER CMT. NO. 72
ALARM LIGHT NO. 73	COMPUTER CMT. NO. 73
ALARM LIGHT NO. 74	COMPUTER CMT. NO. 74
ALARM LIGHT NO. 75	COMPUTER CMT. NO. 75
ALARM LIGHT NO. 76	COMPUTER CMT. NO. 76
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ALARM LIGHT NO. 78	COMPUTER CMT. NO. 78
ALARM LIGHT NO. 79	COMPUTER CMT. NO. 79
ALARM LIGHT NO. 80	COMPUTER CMT. NO. 80
ALARM LIGHT NO. 81	COMPUTER CMT. NO. 81
ALARM LIGHT NO. 82	COMPUTER CMT. NO. 82
ALARM LIGHT NO. 83	COMPUTER CMT. NO. 83
ALARM LIGHT NO. 84	COMPUTER CMT. NO. 84
ALARM LIGHT NO. 85	COMPUTER CMT. NO. 85
ALARM LIGHT NO. 86	COMPUTER CMT. NO. 86
ALARM LIGHT NO. 87	COMPUTER CMT. NO. 87
ALARM LIGHT NO. 88	COMPUTER CMT. NO. 88
ALARM LIGHT NO. 89	COMPUTER CMT. NO. 89
ALARM LIGHT NO. 90	COMPUTER CMT. NO. 90
ALARM LIGHT NO. 91	COMPUTER CMT. NO. 91
ALARM LIGHT NO. 92	COMPUTER CMT. NO. 92
ALARM LIGHT NO. 93	COMPUTER CMT. NO. 93
ALARM LIGHT NO. 94	COMPUTER CMT. NO. 94
ALARM LIGHT NO. 95	COMPUTER CMT. NO. 95
ALARM LIGHT NO. 96	COMPUTER CMT. NO. 96
ALARM LIGHT NO. 97	COMPUTER CMT. NO. 97
ALARM LIGHT NO. 98	COMPUTER CMT. NO. 98
ALARM LIGHT NO. 99	COMPUTER CMT. NO. 99
ALARM LIGHT NO. 100	COMPUTER CMT. NO. 100



FCV152-AUX FWP
TURB. STEAM INLET VALVE
CURTAIN NO. 1048 (REV. 1)

ALARM LIGHT NO.
VALVE FULLY CLOSED
ALARM



CONTACTS	POSITION	REMARKS
1-2	OPEN	THIS DIAG.
3-4	CLOSE	THIS DIAG.
5-6	OPEN	THIS DIAG.
7-8	CLOSE	THIS DIAG.
9-10	OPEN	THIS DIAG.
11-12	CLOSE	THIS DIAG.
13-14	OPEN	THIS DIAG.
15-16	CLOSE	THIS DIAG.
17-18	OPEN	THIS DIAG.
19-20	CLOSE	THIS DIAG.
21-22	OPEN	THIS DIAG.
23-24	CLOSE	THIS DIAG.
25-26	OPEN	THIS DIAG.
27-28	CLOSE	THIS DIAG.
29-30	OPEN	THIS DIAG.
31-32	CLOSE	THIS DIAG.
33-34	OPEN	THIS DIAG.
35-36	CLOSE	THIS DIAG.
37-38	OPEN	THIS DIAG.
39-40	CLOSE	THIS DIAG.
41-42	OPEN	THIS DIAG.
43-44	CLOSE	THIS DIAG.
45-46	OPEN	THIS DIAG.
47-48	CLOSE	THIS DIAG.
49-50	OPEN	THIS DIAG.
51-52	CLOSE	THIS DIAG.
53-54	OPEN	THIS DIAG.
55-56	CLOSE	THIS DIAG.
57-58	OPEN	THIS DIAG.
59-60	CLOSE	THIS DIAG.
61-62	OPEN	THIS DIAG.
63-64	CLOSE	THIS DIAG.
65-66	OPEN	THIS DIAG.
67-68	CLOSE	THIS DIAG.
69-70	OPEN	THIS DIAG.
71-72	CLOSE	THIS DIAG.
73-74	OPEN	THIS DIAG.
75-76	CLOSE	THIS DIAG.
77-78	OPEN	THIS DIAG.
79-80	CLOSE	THIS DIAG.
81-82	OPEN	THIS DIAG.
83-84	CLOSE	THIS DIAG.
85-86	OPEN	THIS DIAG.
87-88	CLOSE	THIS DIAG.
89-90	OPEN	THIS DIAG.
91-92	CLOSE	THIS DIAG.
93-94	OPEN	THIS DIAG.
95-96	CLOSE	THIS DIAG.
97-98	OPEN	THIS DIAG.
99-100	CLOSE	THIS DIAG.

CONTROL SWITCH
USED AT LOCATION OR NOT
SPRING RETURN TO NEUTRAL
OPERATOR DT 2V6

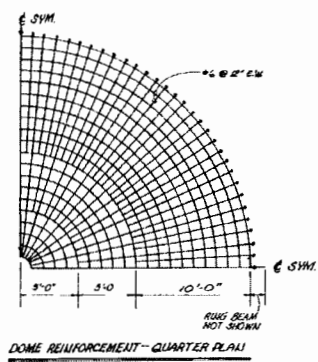
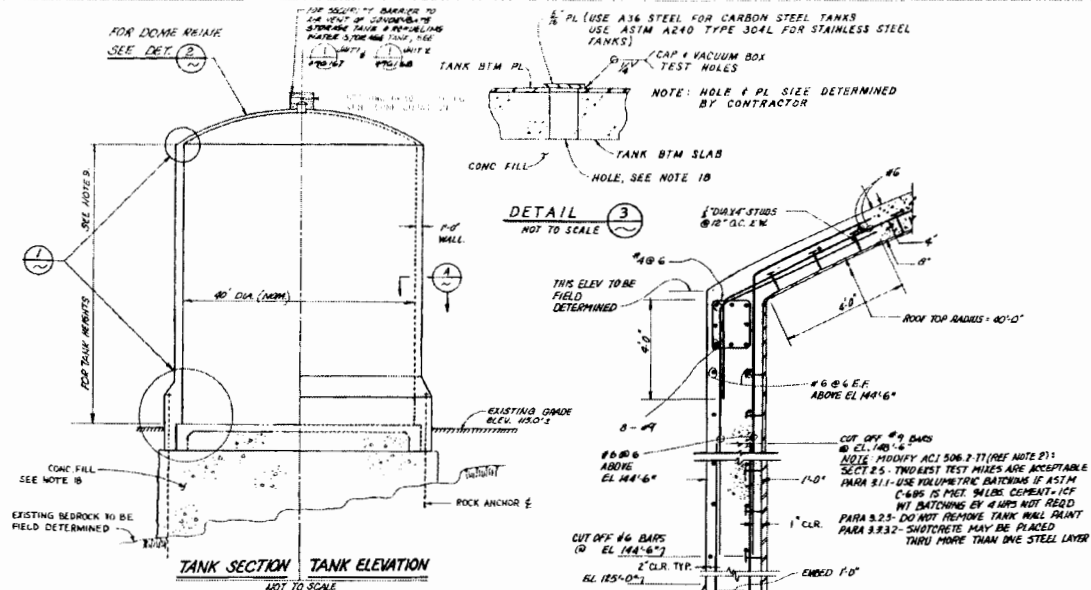
CONTACTS	POSITION	REMARKS
1-2	OPEN	THIS DIAG.
3-4	CLOSE	THIS DIAG.
5-6	OPEN	THIS DIAG.
7-8	CLOSE	THIS DIAG.
9-10	OPEN	THIS DIAG.
11-12	CLOSE	THIS DIAG.
13-14	OPEN	THIS DIAG.
15-16	CLOSE	THIS DIAG.
17-18	OPEN	THIS DIAG.
19-20	CLOSE	THIS DIAG.
21-22	OPEN	THIS DIAG.
23-24	CLOSE	THIS DIAG.
25-26	OPEN	THIS DIAG.
27-28	CLOSE	THIS DIAG.
29-30	OPEN	THIS DIAG.
31-32	CLOSE	THIS DIAG.
33-34	OPEN	THIS DIAG.
35-36	CLOSE	THIS DIAG.
37-38	OPEN	THIS DIAG.
39-40	CLOSE	THIS DIAG.
41-42	OPEN	THIS DIAG.
43-44	CLOSE	THIS DIAG.
45-46	OPEN	THIS DIAG.
47-48	CLOSE	THIS DIAG.
49-50	OPEN	THIS DIAG.
51-52	CLOSE	THIS DIAG.
53-54	OPEN	THIS DIAG.
55-56	CLOSE	THIS DIAG.
57-58	OPEN	THIS DIAG.
59-60	CLOSE	THIS DIAG.
61-62	OPEN	THIS DIAG.
63-64	CLOSE	THIS DIAG.
65-66	OPEN	THIS DIAG.
67-68	CLOSE	THIS DIAG.
69-70	OPEN	THIS DIAG.
71-72	CLOSE	THIS DIAG.
73-74	OPEN	THIS DIAG.
75-76	CLOSE	THIS DIAG.
77-78	OPEN	THIS DIAG.
79-80	CLOSE	THIS DIAG.
81-82	OPEN	THIS DIAG.
83-84	CLOSE	THIS DIAG.
85-86	OPEN	THIS DIAG.
87-88	CLOSE	THIS DIAG.
89-90	OPEN	THIS DIAG.
91-92	CLOSE	THIS DIAG.
93-94	OPEN	THIS DIAG.
95-96	CLOSE	THIS DIAG.
97-98	OPEN	THIS DIAG.
99-100	CLOSE	THIS DIAG.

TRANSFER SWITCH
USED AT LOCATION OR NOT
NO SPRING RETURN

FCV95 VALVE POSITION SWITCH CONTACT DEVELOPMENT
POS 441: ACTUAL CONTACT SETTINGS ARE IN PINS

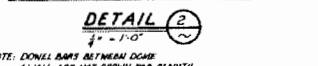
FCV95 VALVE POSITION SWITCH CONTACT DEVELOPMENT
POS 441: ACTUAL CONTACT SETTINGS ARE IN PINS

DEVICE NO.	FUNCTION	RATING	TYPE	CATEGORY	REMARKS
1	CONTROL TRANSFER RELAY	125VDC	RELAY	1	TRANS. RESET
2	MOTOR OVERLOAD RELAY	125VDC	RELAY	2	REF. DIAG. 1
3	MOTOR OVERLOAD RELAY	125VDC	RELAY	3	REF. DIAG. 1
4	MOTOR OVERLOAD RELAY	125VDC	RELAY	4	REF. DIAG. 1
5	MOTOR OVERLOAD RELAY	125VDC	RELAY	5	REF. DIAG. 1
6	MOTOR OVERLOAD RELAY	125VDC	RELAY	6	REF. DIAG. 1
7	MOTOR OVERLOAD RELAY	125VDC	RELAY	7	REF. DIAG. 1
8	MOTOR OVERLOAD RELAY	125VDC	RELAY	8	REF. DIAG. 1
9	MOTOR OVERLOAD RELAY	125VDC	RELAY	9	REF. DIAG. 1
10	MOTOR OVERLOAD RELAY	125VDC	RELAY	10	REF. DIAG. 1
11	MOTOR OVERLOAD RELAY	125VDC	RELAY	11	REF. DIAG. 1
12	MOTOR OVERLOAD RELAY	125VDC	RELAY	12	REF. DIAG. 1
13	MOTOR OVERLOAD RELAY	125VDC	RELAY	13	REF. DIAG. 1
14	MOTOR OVERLOAD RELAY	125VDC	RELAY	14	REF. DIAG. 1
15	MOTOR OVERLOAD RELAY	125VDC	RELAY	15	REF. DIAG. 1
16	MOTOR OVERLOAD RELAY	125VDC	RELAY	16	REF. DIAG. 1
17	MOTOR OVERLOAD RELAY	125VDC	RELAY	17	REF. DIAG. 1
18	MOTOR OVERLOAD RELAY	125VDC	RELAY	18	REF. DIAG. 1
19	MOTOR OVERLOAD RELAY	125VDC	RELAY	19	REF. DIAG. 1
20	MOTOR OVERLOAD RELAY	125VDC	RELAY	20	REF. DIAG. 1
21	MOTOR OVERLOAD RELAY	125VDC	RELAY	21	REF. DIAG. 1
22	MOTOR OVERLOAD RELAY	125VDC	RELAY	22	REF. DIAG. 1
23	MOTOR OVERLOAD RELAY	125VDC	RELAY	23	REF. DIAG. 1
24	MOTOR OVERLOAD RELAY	125VDC	RELAY	24	REF. DIAG. 1
25	MOTOR OVERLOAD RELAY	125VDC	RELAY	25	REF. DIAG. 1
26	MOTOR OVERLOAD RELAY	125VDC	RELAY	26	REF. DIAG. 1
27	MOTOR OVERLOAD RELAY	125VDC	RELAY	27	REF

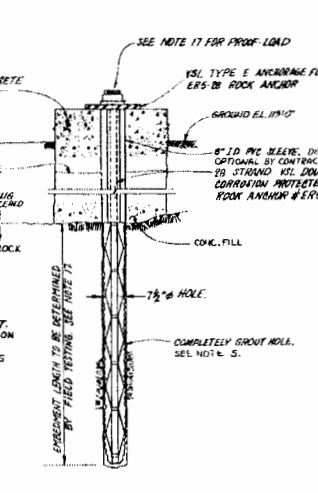
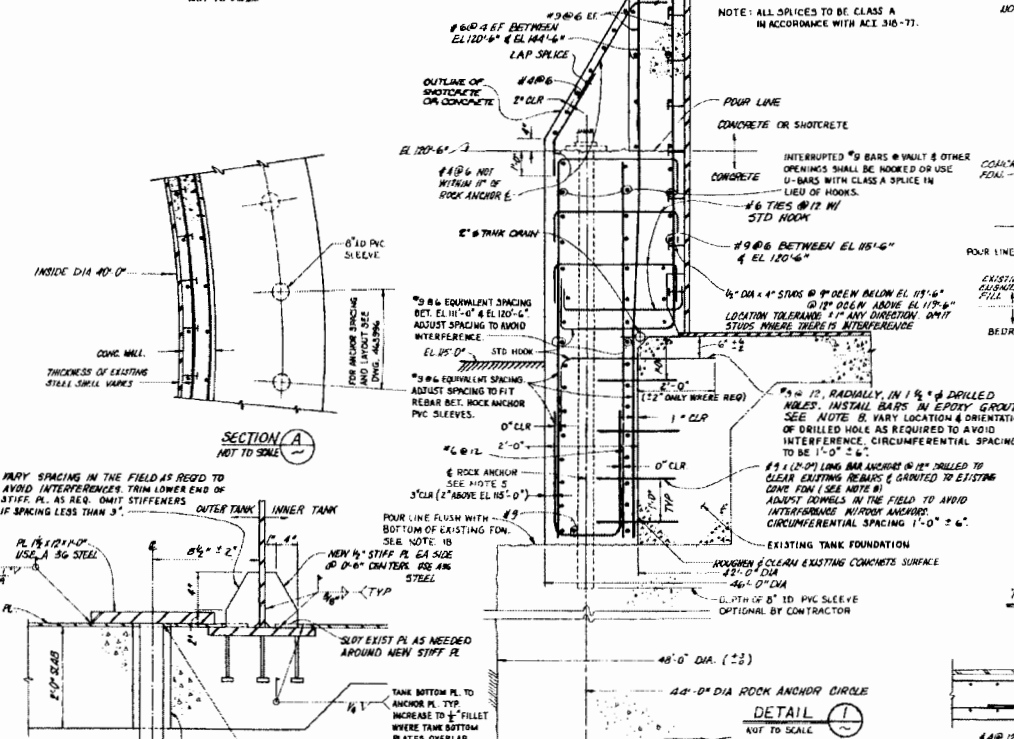


NAME OF TANK	UNIT 1	UNIT 2
CONC.	100%*	100%*
STEEL	100%*	100%*
TRUSS	100%*	100%*

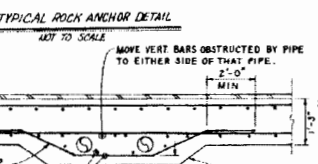
- NOTES**
1. PROTECTION NEEDED ONLY FOR REPAIRING, CONDENSATE, FIREWATER, AND TRANSFER.
 2. A. CONCRETE SHALL BE IN ACCORDANCE WITH ACI 308.1. PHOTOGRAPHING SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATION FOR MATERIALS, PROPORTIONING AND APPLICATION OF SHOTCRETE (ACI 308.1-71) CONCRETE AND SHOTCRETE COMPRESSIVE STRENGTH SHALL BE 4 KSI MINIMUM (SEE DET. 1).
 3. CONCRETE COMPRESSIVE STRENGTH MAY BE 3.5 KSI MIN FOR FIREWATER AND TRANSFER STORAGE TANK ON SECTION G; DET. 48361.
 3. REINFORCING STEEL SHALL BE 60,000 MINIMUM.
 4. STAINLESS STEEL TANKS SHALL HAVE STAINLESS STEEL (SEE NOTE 16).
 5. ROCK ANCHORS SHALL BE 1/2" B STRAND #8'S 20" WITH DOUBLE EXPOSURE PROTECTION. 4 ROCK ANCHORS REQUIRED PER TANK. FULLY GROUT ROCK ANCHORS WITH BRIT. MIN. MINIMUM STRENGTH OF 4 KSI @ 28 DAYS. GROUT STRENGTH TO BE 3 KSI MIN BEFORE ROCK ANCHOR TESTING OR PROOF-LOADING. RELOCATE UP TO 5" TO AVOID OBSTRUCTIONS.
 6. LADDERS AND ACCESSORIES SHALL BE FIELD MODIFIED TO FIT NEW TANK CONFIGURATION.
 7. SHOTCRETE MAY BE APPLIED TO TANK ROOF UP TO FULL 8" THICKNESS AT ONE TIME.
 8. SHOTCONCRESSIVE (NII EPOXY GROUT, (ADHESIVE ENGINEERING CO.) OR APPROVED EQUAL.
 9. EXISTING TANKS HEIGHTS:
 - REFUELING WATER STORAGE: 52'-6"
 - FIREWATER (TUBULAR): 30'-0"
 - CONDENSATE STORAGE: 47'-3"
 10. A. EXISTING PAINT:
 - EXTERIOR SURFACES — PRIME WITH MOBIL CHEMICAL "MOBILIZING 7" (ANODINIC ZINC PRIMER, FINISHED WITH MOBIL CHEMICAL "CHROMIUMATED RUBBER 2T-G-703" (R.G.P. NO. 607 GRAY GREEN).
 - INTERIOR SURFACES —



NOTE: DONUT BARS BETWEEN DOME & WALL ARE NOT SHOWN FOR CLARITY



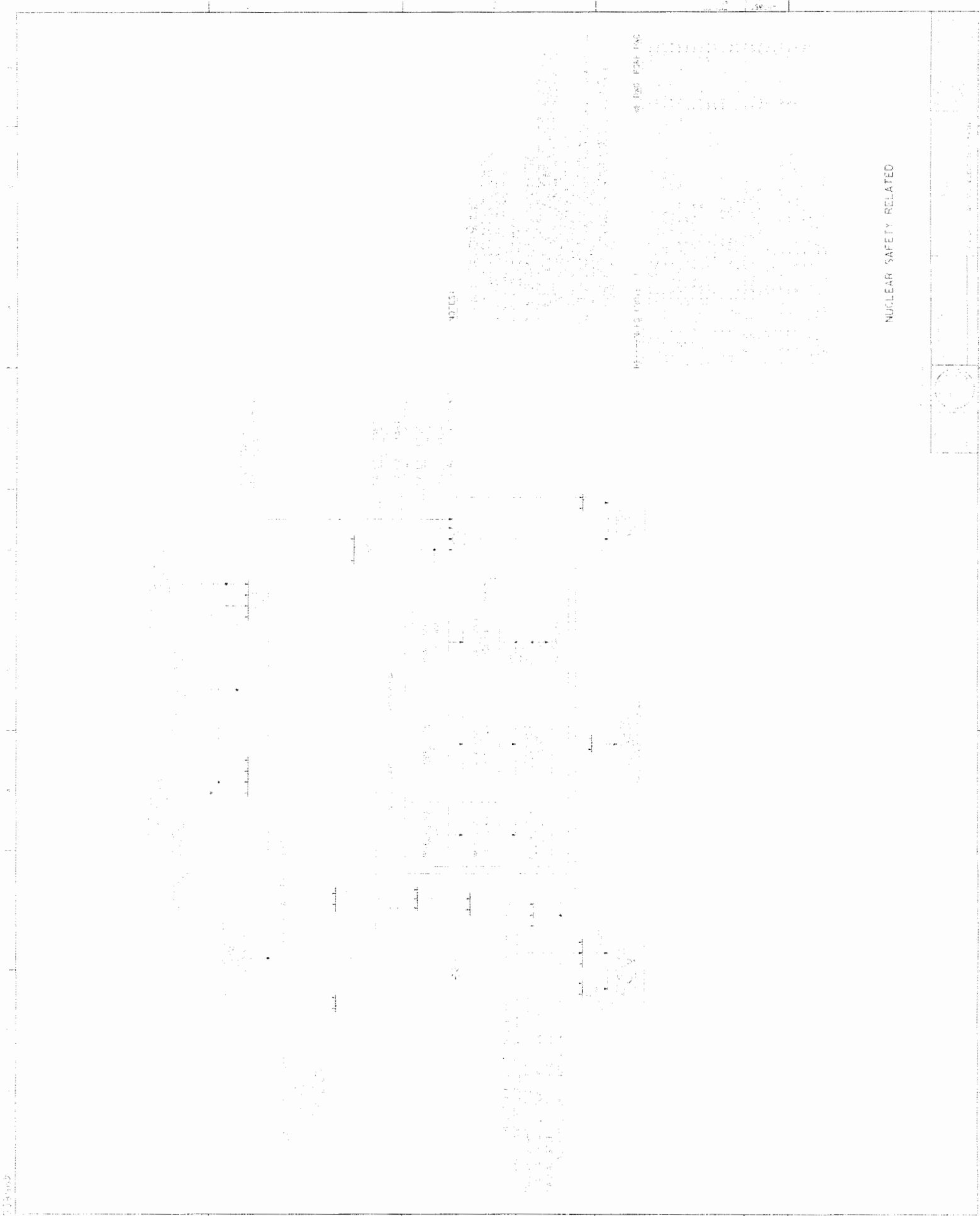
11. RELOCATE 1/4" PVC MEMBRANE AREA DURING PIPE ON UNIT #1 TO AVOID ALL NEW CONCRETE TO OR REAR EXISTING TANK FOUNDATIONS. EMBED THESE PIPES AND CONDUITS IN NEW CONCRETE IF ACCESSARY AND PLACE ANCHORS TO AVOID THEM.
12. ALL WELDING TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF AWS D1.1.
13. SHORTEN DRAWING MODELS TO CLEAR ROCK BOLT HEADS, IF NECESSARY.
14. RELOCATE THE 4" TRANSFER TANK GRAVITY FLOW LINE (CONDENSATE STORAGE TANK) SO THAT SPANS AFTER THE HOLE AVOIDS ALL NEW CONCRETE. REPOSITION PIPE SUPPORTS AS REQUIRED.
15. STAINLESS STEEL STUDS SHALL CONFORM TO ASTM A770 TYPE 304 (SEE NOTE 4). CARBON STEEL STUDS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR COLD DRAWN CHANNEL STEEL BARS AND SHAPES ASTM A360 GRADE 50 (SEE DET. 4829).
17. INSTALL 3 TEST ANCHORS ON THE SITE AND LOAD UNTIL BOND FAILURE BETWEEN ANCHOR AND CONCRETE. DETERMINE EMBEDMENT LENGTH FROM TEST RESULTS USING A SAFETY FACTOR OF 2. PROOF LOAD EACH INSTALLED ROCK ANCHOR TO TEST PIPE TIGHT AND HOLD FOR 30 SECONDS WITH NO LOS IN PROOF LOAD. CONTINUE TO HOLD PROOF LOAD FOR 5 MINUTES WITH A MINIMUM LOSE OF 0.1 IN. THEN APPLY A 100 LBS. POINT LOAD TO EACH ANCHOR HEAD. DETERMINE CORROSION BY PLACING AN ANCHOR IN FILL WITH SHOTCRETE TO OUTLINE SHOWN.
18. CONCRETE FILL SHALL BE MIN. 3 KSI COMPRESSIVE STRENGTH PER DET. 48361. LARGE BUMP AND BONDING AGENTS AND RETARDANTS MAY BE USED FOR WORKABILITY. IF NEEDED DRILL HOLES IN TANK BOTTOM IF REQUIRED FOR PLACING CONCRETE. TEST DET. 31 QUALITY ASSURANCE SHALL BE LIMITED TO ALCONCRETE MIX SHALL BE APPROVED BY ACE ONE. ENGINEER. DETERMINE STRENGTH OF CONCRETE TEST PER ACE 318.
19. FOR VORTEX SUPPRESSION CAGES SEE DET. 4648B.



- REFERENCE DESIGNS:**
1. CONCRETE OUTLINE & REINFORCEMENT WATER STORAGE TANK FOR UNIT 1 DET. 48361
 2. FOUNDATIONS FOR WATER STORAGE UNIT #1 DET. 48361
 3. REQUIREMENTS FOR WATER STORAGE TANKS UNIT #1 DET. 48361
 4. REQUIREMENTS FOR WATER STORAGE TANKS UNIT #2 DET. 48361
 5. LOCATION MODELS SCHEDULE 1 VULN DETAILS FOR WATER STORAGE TANKS UNIT #2 DET. 48361
 6. DETAILS, EXTERIOR CONCRETE TANK PROTECTIVE DETAILS UNIT #1 DET. 48361
 7. DETAILS, EXTERIOR CONCRETE TANK PROTECTIVE DETAILS UNIT #2 DET. 48361
 8. APPLICABLE DESIGN CHANGES: DET. 6-C-154 (NO. 104); DET. 6-C-156 229,440,444, 379,424,630,632,634; DET. 6-C-163 491,515,522, 541,513,547,611,615; DET. 6-C-164; DET. 6-C-165,661,669
 9. MODIFICATIONS OF CONCRETE & REINFORCEMENT DETAILS AND TANK UNIT #1 DET. 476-483
 10. MODIFICATIONS OF CONCRETE & REINFORCEMENT DETAILS AND TANK UNIT #2 DET. 476-483



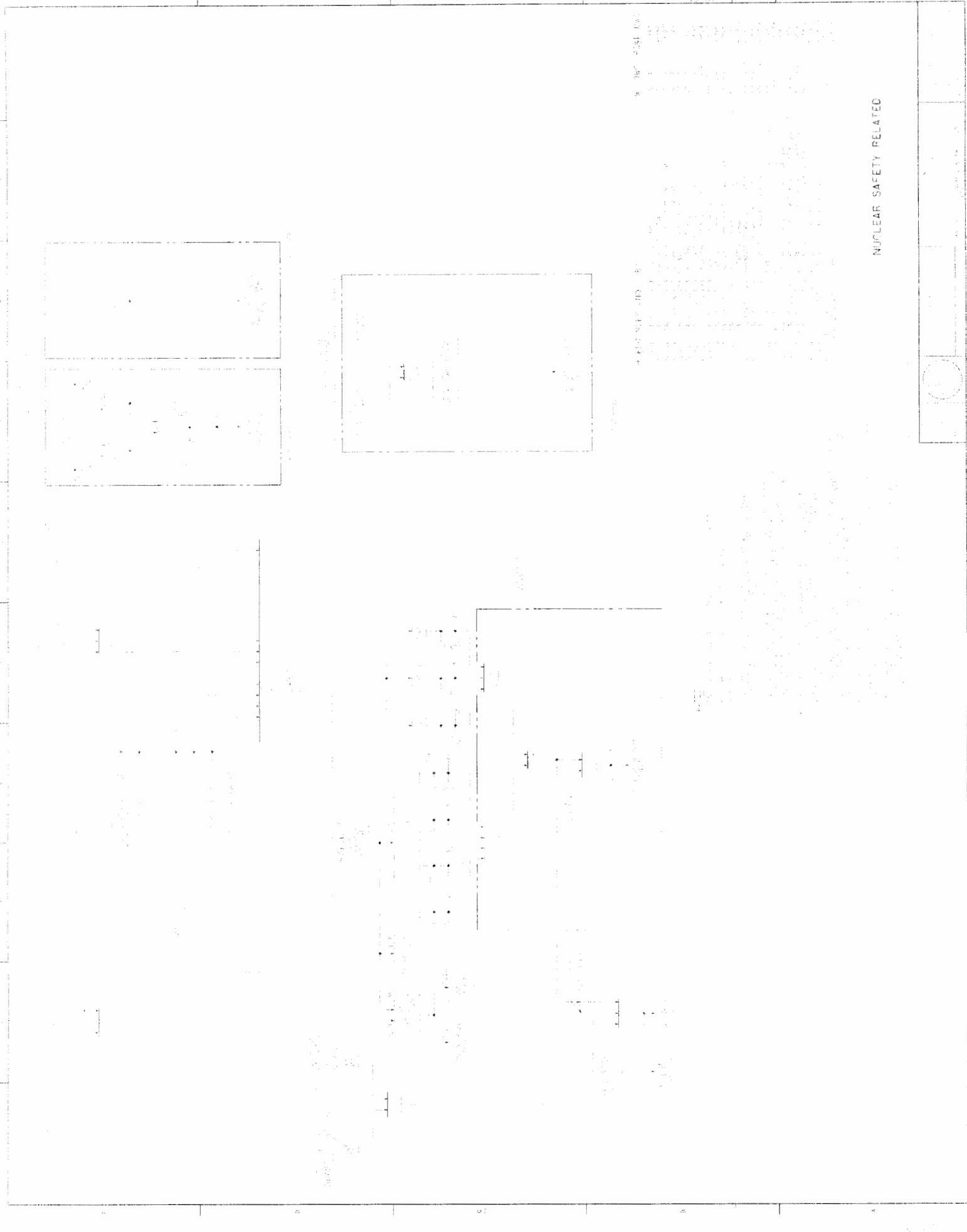
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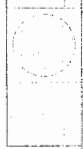
NOTES:

REFLECTOR
CORE
MIXER
PUMP
HEAT EXCHANGER

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