

FSAR REFERENCED DRAWING BOOK

DRAWING TITLE	DWG #	SH #
24" Globe Body Main Steam Isolation Valve - with Cylinder Operator	AM 20451-H	1 THRU 3
Post Accident Sampling	*BR M0012	1
Flow Diagram - Augmented Off-Gas System	*BR M608	1 & 2
Flow Diagram - HVAC New Radwaste Bldg., Heating Boiler, Augmented Offgas	*BR M611	1 THRU 3
Flow Diagram - Main, Extraction & Reheat Steam Systems -	*BR 2002	1 THRU 4
Flow Diagram - Feedwater & Condensate System	*BR 2003	1
Flow Diagram - Demineralized & Condensate Water Transfer System	*BR 2004	1 & 2
Flow Diagram - Vacuum Priming, Reactor & Turbine Bldg., New Radwaste, Emergency, Screen Wash, Circulating, Service Water Systems	*BR 2005	1 THRU 6
Flow Diagram - Closed Cooling Water System, Reactor Bldg., Turbine Bldg., Radwaste, Augmented Offgas	*BR 2006	1 THRU 8
Flow Diagram - Heater Drain Vent & Pressure Relief System	*BR 2007	1 THRU 4
Flow Diagram - Air Extraction & Offgas Systems	*BR 2008	1 & 2
Flow Diagram - H&V Turbine Bldg., Main Stack, Machine Shop, & Storage Bldg.	*BR 2009	1 THRU 3
Flow Diagram - HVAC Office Bldg.(South End, 480V Swg. Rm.), Control Rm. & Cable Spreading Room, Battery Rm. M.G. Set Rm. Ventilation, Chem Labs	*BR 2010	1 THRU 5
Flow Diagram - Drywell Cooling System, Reactor Bldg. Ventilation	*BR 2011	1 THRU 3
Flow Diagram - H&V Old Radwaste Bldg.	*BR 2012	1
Flow Diagram - Service Air System, Instrument Control, Fluid Details NRW Air System	*BR 2013	1 THRU 10
Flow Diagram - Turbine Oil Lube System	*BR 2014	1
Composite Yard Piping Key Plan	BR 2192	1 & 2
Main One Line Diagram Generators	*BR 3001	1 & 2
Auxiliary One Line Diagram - 460 Unit Substation 1A1 & 1B1, 1A2 & 1B2, 1A3 & 1B3, 1E1	*BR 3002	1 THRU 4
AC Vital One Line Diagram MCC 1A2, 1B2, 1AB2	*BR 3013	1 & 2
DC One Line Diagram - Battery Charger & MCC DC-1, Center A & B	*BR 3028	1 & 2
Intake & Turbine Area Excavation & Backfill Plan & Sections	BR 4006	1
DC One Line Diagram - Battery C & MCC DC-2	*EB D 3033	N/A
Flow Diagram - Recirculation Pumps & M/G Set	*GE 107C5339	1
Flow Diagram - Emergency Condenser System	*GE 148F262	1
Flow Diagram -Liquid, Solid & Obsolete Solid Radwaste Collection & Processing	*GE 148F437	1 THRU 18
Flow Diagram - Cleanup Demineralizer System	*GE 148F444	1
Flow Diagram - Reactor Shutdown Cooling System	*GE 148F711	1
Flow Diagram Liquid Poison System	*GE 148F723	1

• * DENOTES CONTROL ROOM DRAWING

DRAWING TITLE

Flow Diagram - Containment Spray System
Flow Diagram - Hydraulic Control Rod Drive, Scram Discharge Volume, Nitrogen Charging Systems
Flow Diagram - Generator Strator Cooling System
Flow Diagram - Control Rod Drive System
Fuel Storage Pool Arrangement Plan & Section A-A, Wall Mount Detail, Storage Vault & Gate Lugs, Rack Hold Bolt Pattern
Elementary Diagram - Reactor Protection System
Flow Diagram - Drywell and Suppression System
Flow Diagram - Spent Fuel Pool Cooling
Flow Diagram - Recirculation System
Elementary Diagram Containment Spray
Elementary Diagram - Reactor Manual Control System
Arrangement Drywell Equipment
Elementary Diagram Core Spray System
Elementary Diagram for Auto Depressurization System
Plant Heat Balance
Heat Balance - 3 Heaters 670 Mw
Process Radiation Monitor System
Flow Diagram - Core Spray System
Symbols & Legend for ISD and Isometric Drawings
ISFSI Spent Fuel Cask Safe Load Path, El. 119' - 3 "
General Arrangement - Floor & Equipment Drains - Turbine Building
General Arrangement - Floor & Equipment Drains Reactor Building
General Arrangement - Floor & Equipment Drains - Old Radwaste Building
General Arrangement - Floor & Equipment Drains - New Radwaste Building
General Arrangement - Roof Drains & Overboard Discharge System.
General Arrangement- Turbine Bldg. Plan Floor Elevation 0'0" & 3'6"
General Arrangement- Turbine Bldg. Plan 23'6" Floor Elevation
General Arrangement: Turbine Bldg. Plan 46'6" Floor Elevation
General Arrangement: Turbine Bldg. Plan 46'6" Floor Elevation
General Arrangement: Turbine Bldg. Sections
General Arrangement: Turbine Bldg. Plan Partial Plans & Sections
General Arrangement: Turbine Bldg. Plan Partial Plans & Sections
General Arrangement: RB Plan Floor Elevation (-)19'6"
General Arrangement: RB Plan Floor Elevation 23'6"
General Arrangement: RB Plan Floor Elevation 51'3"
General Arrangement: RB Plan Floor Elevation 75'3"

**** DENOTES CONTROL ROOM DRAWING**

DWG #

SH #

*GE 148F740 1
*GE 197E871 1
*GE 234R166 1
*GE 237E487 1
GE 237E516 1 THRU 4
*GE 237E566 1 THRU 20
*GE 237E726 1
*GE 237E756 1
*GE 237E798 1
*GE 237E901 1 & 2
*GE 237E912 1 THRU 8
*GE 706E206 1 THRU 3
GE 718E644 2
*GE 729E182 1 THRU 5
GE 798D807 1
GE 846D640 1
*GE 846D686 1 & 2
*GE 885D781 1
GF JCP-19431 N/A
GU 3C-SKS-110 N/A
*GU 3D-151-07-001 1 & 2
*GU 3D-153-07-001 1 & 2
*GU 3D-154-07-001 N/A
*GU 3D-155-07-001 N/A
*GU 3D-576-07-001 N/A
GU 3E-151-02-001 N/A
GU 3E-151-02-003 N/A
GU 3E-151-02-005 N/A
GU 3E-151-02-006 N/A
GU 3E-151-02-007 N/A
GU 3E-151-02-008 N/A
GU 3E-151-02-009 N/A
GU 3E-153-02-001 N/A
GU 3E-153-02-002 N/A
GU 3E-153-02-003 N/A
GU 3E-153-02-004 N/A

DRAWING TITLE	DWG #	SH #
General Arrangement: PB Plan Floor Elevation 95'3"	GU 3E-153-02-005	N/A
General Arrangement: RB Plan Floor Elevation 119'3"	GU 3E-153-02-006	N/A
General Arrangement: RB Section A-A	GU 3E-153-02-007	N/A
General Arrangement: RB Section B-B	GU 3E-153-02-008	N/A
General Arrangement: RB Section C-C, D-D & E-E	GU 3E-153-02-009	N/A
General Arrangement: Old Radwaste Bldg. Plan	GU 3E-154-02-001	N/A
General Arrangement: Old Radwaste Bldg. Roof Plan	GU 3E-154-02-002	N/A
General Arrangement: Old Radwaste Bldg. Sections	GU 3E-154-02-003	N/A
General Arrangement: New Radwaste Bldg. Floor El. 23'6"	GU-3E-155-02-001	N/A
General Arrangement: New Radwaste Bldg. Floor El. 33'0", 35'6", 38'6"	GU 3E-155-02-002	N/A
General Arrangement: New Radwaste Bldg. Floor El. 48'0"	GU 3E-155-02-003	N/A
General Arrangement: New Radwaste Bldg. Sections A-A, B-B & F-F	GU 3E-155-02-004	N/A
General Arrangement: New Radwaste Bldg. Section C-C, D-D, & E-E	GU 3E-155-02-005	N/A
General Arrangement: Office Bldg. Plan 23'6" - 35'0" Floor Elevation	GU 3E-156-02-001	N/A
General Arrangement: Office Bldg. Plan 46'6" & Roof Plan Floor Elevation	GU 3E-156-02-002	N/A
General Arrangement Diesel Generator Building Plans El. 23'0" & 37'0"	GU 3E-157-02-001	N/A
General Arrangement Heating Boiler House Plan El. 23'6" & Sections	GU 3E-158-02-001	N/A
General Arrangement Maintenance Building Plan El. 24'6"	GU 3E-162-02-001	N/A
General Arrangement Maintenance Building Plan El. 38'6"	GU 3E-162-02-002	N/A
General Arrangement Maintenance Building Roof Plan	GU 3E-162-02-003	N/A
General Arrangement Pretreatment Bldg. Plan El. 23'6" & Sections	GU 3E-167-02-001	N/A
General Arrangement Intake Structure Plan & Sections	GU 3E-168-02-001	N/A
General Arrangement Chlorination Facilities Plan El. 23'6" & Sections	GU 3E-169-02-001	N/A
General Arrangement Dilution Pumphouse Plan El. 6'0", 11'6" & Sections	GU 3E-170-02-001	N/A
General Arrangement Augmented Offgas Building Plans El. 23'6", El. 38'9"	GU 3E-175-02-001	N/A
General Arrangement Augmented Offgas Building Plans A-A, B-B, & C-C	GU 3E-175-02-002	N/A
General Arrangement Fresh Water Pumphouse & Redundant Fire Protection Pumphouse Plan & Sections	GU 3E-176-02-001	N/A
General Arrangement New Sample Pumphouse Plan & Section A-A	GU 3E-185-02-001	N/A
General Arrangement Machine Shop Plans El. 23'6", 34'6" & Roof	GU 3E-186-02-001	N/A
Emergency Condenser - ISI Boundary Drawing	GU 3E-211-A1-001	N/A
Core Spray System - ISI Boundary Drawing	GU 3E-212-A1-001	1
Liquid Poison System - ISI Boundary Drawing	GU 3E-213-A1-001	1
Recirculation System - ISI Boundary Drawing	GU 3E-223-A1-001	1
Scram Discharge Volume System, Control Rod Drive Hydraulic System & Nitrogen Charging System - ISI Boundary Drawing	GU 3E-225-A1-001	1

* * DENOTES CONTROL ROOM DRAWING

DRAWING TITLE

Control Rod Drive (CRD) & Reactor Head Cooling - ISI Boundary Drawing
Containment Spray System - ISI Boundary Drawing
Drywell & Torus Vacuum Relief System - ISI Boundary Drawing
Spent Fuel Pool Cooling System - ISI Boundary Drawing
Main Steam System - ISI Boundary Drawing
Condensate Transfer System - ISI Boundary Drawing
Emergency Service Water - ISI Boundary Drawing
Reactor Bldg. Closed Cooling Water System - ISI Boundary Drawing
Flow Diagram - Radiation Monitoring System RAGEMS- I Stack
Emergency Power System On Line Diagram
Flow Diagram - Standby Gas Treatment
Flow Diagram - Diesel Generator Fuel Oil Storage & Transfer System
Flow Diagram - Domestic Water & Pretreatment System
Radwaste Cask FSV-1 Safe Load Path RB Plan Floor Elevation 119'3"
Radwaste Cask VNDB 355 Safe Load Path RB Plan Floor Elevation 119'3"
Flow Diagram - Fire Protection Water System
Site Plan
Core Spray/RBCCW Drywell Isolation System Elementary
North Yard Domestic & Potable Water System

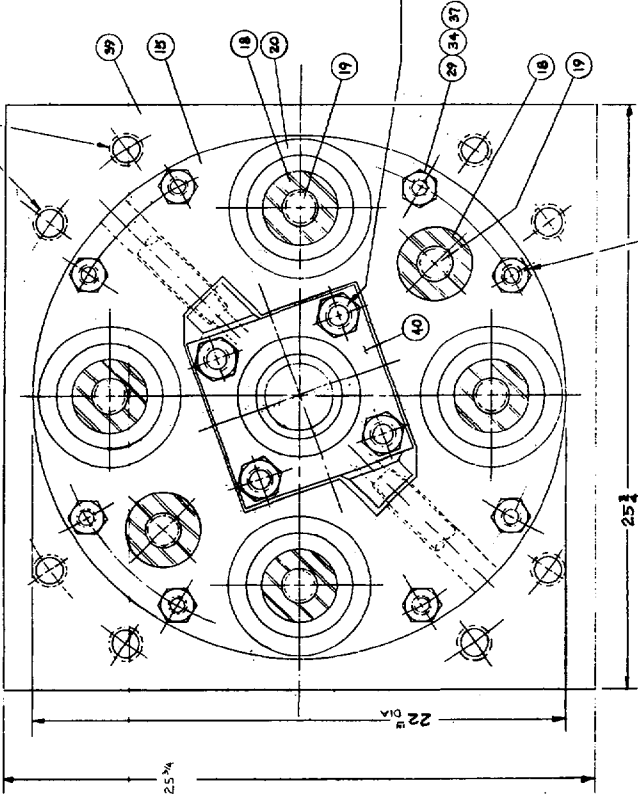
DWG #

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GU 3E-225-A1-002 1
GU 3E-241-A1-001 1
GU 3E-243-A1-001 1
GU 3E-251-A1-001 1
GU 3E-411-A1-001 1 & 2
GU 3E-424-A1-001 1
GU 3E-532-A1-001 1
GU 3E-541-A1-001 1 THRU 4
*GU 3E-661-21-1000 1
*GU 3E-743-11-001 N/A
*GU 3E-822-21-1000 1
*GU 3E-862-21-1000 1
*GU 3E-871-21-1000 1 THRU 3
GU 3E-882-06-001 N/A
GU 3E-882-06-002 N/A
*JC 19479 1 THRU 4
*JC 19702 1
*NU 5060E6003 1 THRU 5
SN 15050-110-PID-050 N/A

* DENOTES CONTROL ROOM DRAWING

Operating Cylinder Tie Rods



Speed Control. Coupler Tie Rods Thru Head End Plate Of This Operating Cylinder.

SECTION "D-D"
Part No. 28 - Sup. Through Tie Rods Thru Head End Plate Of This Operating Cylinder.

* CENTRIFUGALLY CAST

LIST OF MATERIAL

NO.	NAME OF PART	MATERIAL
1	BASE	CAST STEEL ASTM A216 WCB
2	COVER	CAST STEEL ASTM A216 WCB
3	POCKET CAP	CAST STEEL ASTM A216 WCB
4	POCKET CAP	CAST STEEL ASTM A216 WCB
5	POCKET CAP	CAST STEEL ASTM A216 WCB
6	POCKET CAP	CAST STEEL ASTM A216 WCB
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REV	ZONE	ECN NO	REVISION DESCRIPTION	DRAWN	CHKD	CH DR	ENG	QC	DATE
1		0228	SEE SHEET 103	A.D.T. R/V	26/03/2022				11/11/22
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PATENT APPLIED FOR

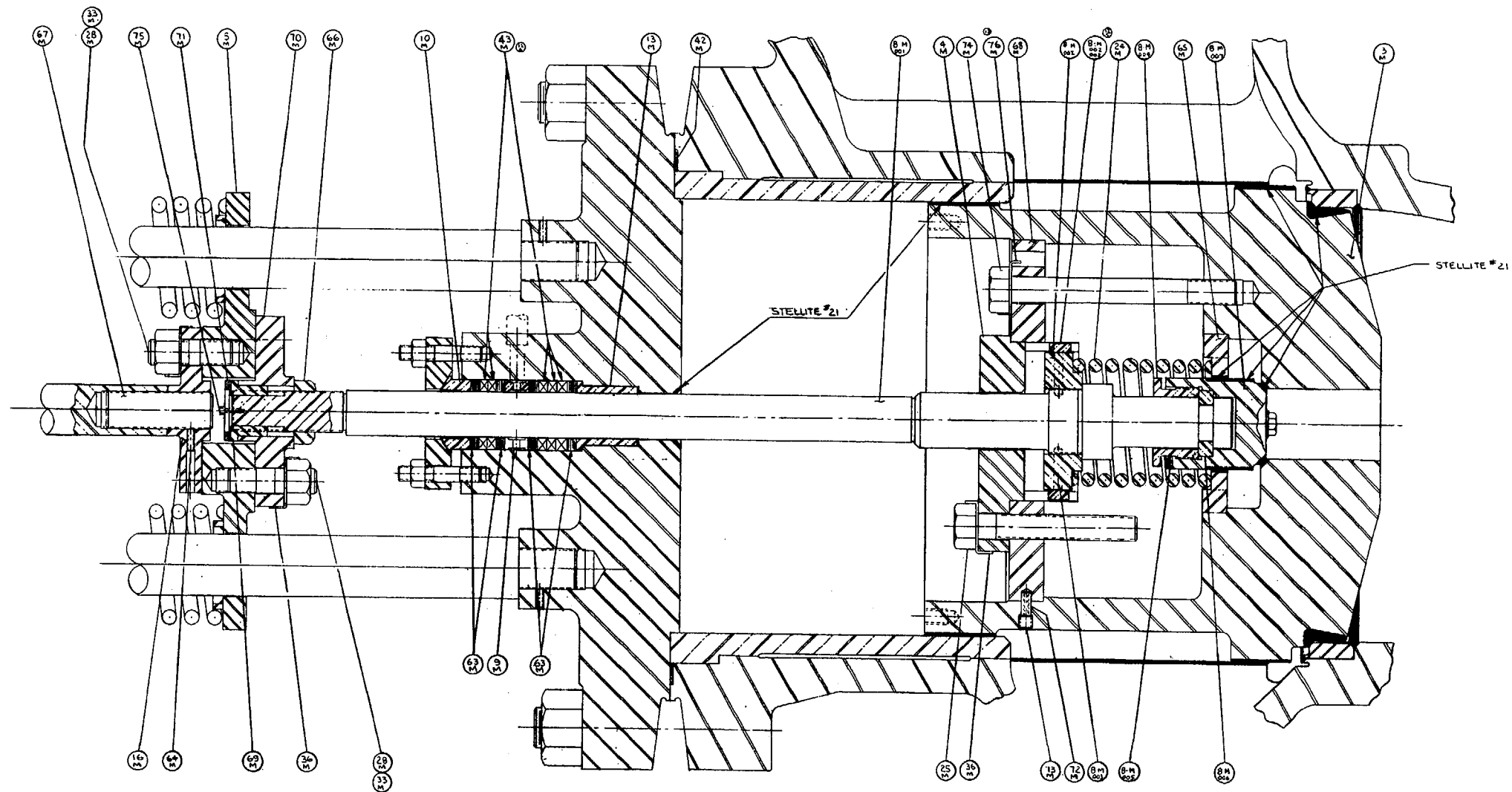
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20451-H	20451-H
REV. 1	REV. 1
DATE: 11/11/22	DATE: 11/11/22
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FOR: [Signature]	FOR: [Signature]
20451-H	20451-H
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DATE: 11/11/22	DATE: 11/11/22
BY: [Signature]	BY: [Signature]
FOR: [Signature]	FOR: [Signature]

20451-H

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LINE NO.	NAME	QTY	UNIT	MATL	SPEC	GRADE	NOTES	LINE NO.	NAME	QTY	UNIT	MATL	SPEC	GRADE	NOTES	LINE NO.	NAME	QTY	UNIT	MATL	SPEC	GRADE	NOTES
3-M	POPPET			STL FRG	SA105			33-M	STUD			STL	A193	B7		34-M	BOLT			ALY STL	A193	B7	
4-M	POPPET CAP			STL PLT	AS15	70		34-M	NUT, Hvy HEX			STL	A194	2H		35-M	CAP SCR HEX			SST	A276	304	
5-M	BOTT. SPG PLATE			STL PLT	AS15	70		36-M	LOCKING PLATE			SST	A240	304		36-M	LUG			SST	A276	304	
8-M	001 STEM						HT 1100	37-M	GASKET			SST A6	FURNITUNG	304		37-M	LOCKING PLATE			SST	A240	304	
8-M	002 SPG HOLDER NUT			SST	A564	630		38-M	PACKING			CHESTER	STYLE 5000	GTF1									
8-M	003 PIN			SST	A276	410		39-M	WIPER RING			CHESTER	STYLE 1	CL									
8-M	004 PILOT POPPET NUT			SST	A582	416		40-M	WIPER RING SET SCR			ALY STL											
8-M	005 SET SCREW			ALY STL				41-M	SPRING RET RING			STL PLT	AS15	70									
8-M	006 SPLIT RING			SST	A564	630	HT 1100	42-M	JAM NUT			STL	A194	2H									
8-M	007 PILOT POPPET			SST	SA192	316		43-M	STUD			ALY STL	A193	B7									
9-M	LANERN GLAND			SST	A582	416		44-M	POPPET PLATE			STL PLT	AS15	70									
10-M	GLAND			SST	A582	416		45-M	KEY			SST	A564	630									
13-M	COVER BUSHING			CO CR W	STELLITE	#6		46-M	STEM CONNECTOR			STL PLT	AS15	70									
16-M	DAIRY POT GEAR DATE			STL	AS15	70		47-M	KEY KEEPER			STL	A276	304									
21-M	INTERNAL SPRING			HT-18-FE	INCOINEL	X-150		72-M	LOCK DOWEL			SST	A276	304									
25-M	BOLT			ALY STL	A193	B-7		73-M	SET SCR HEX SOC			SST		18-B									

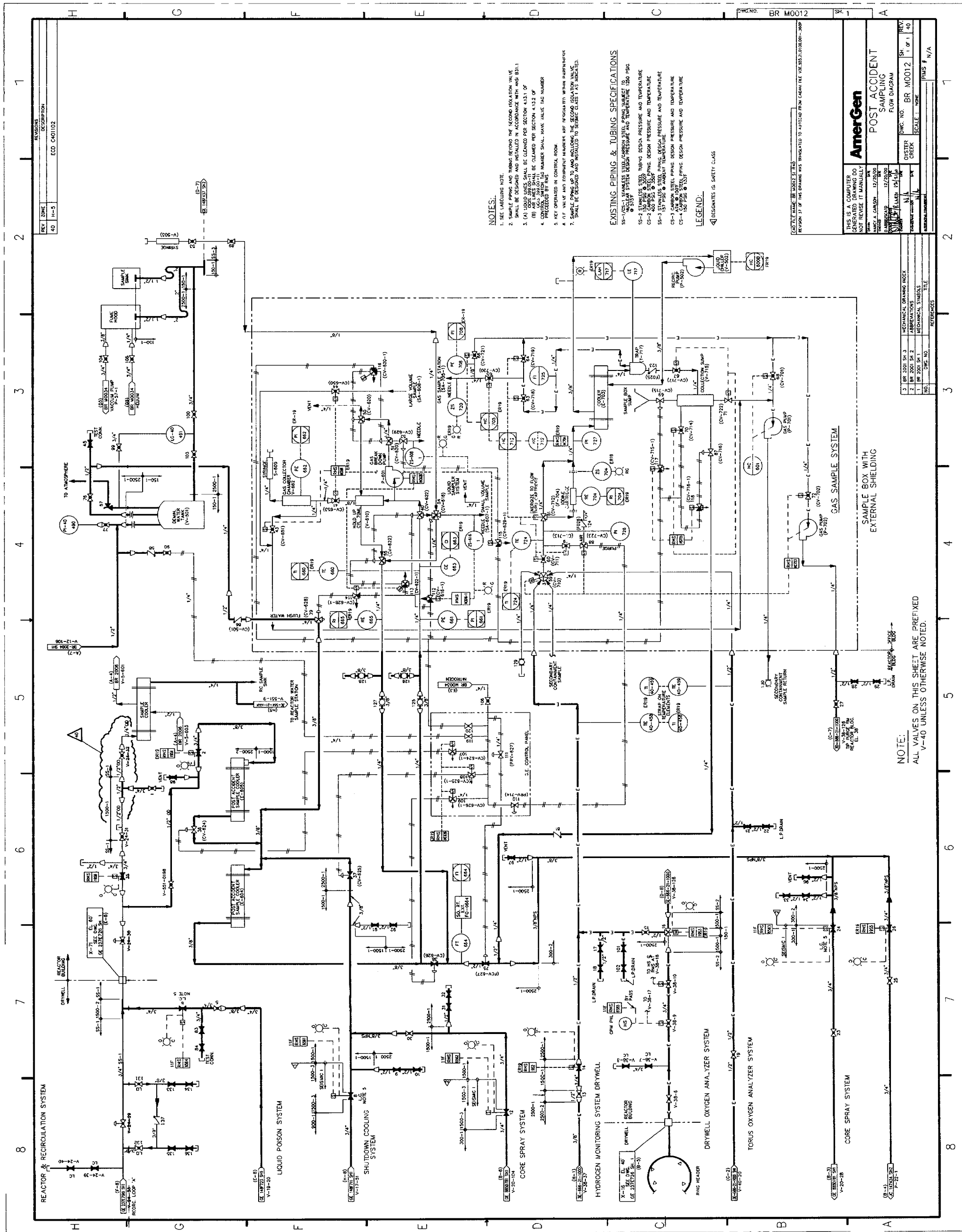
* SAFETY RELATED PARTS

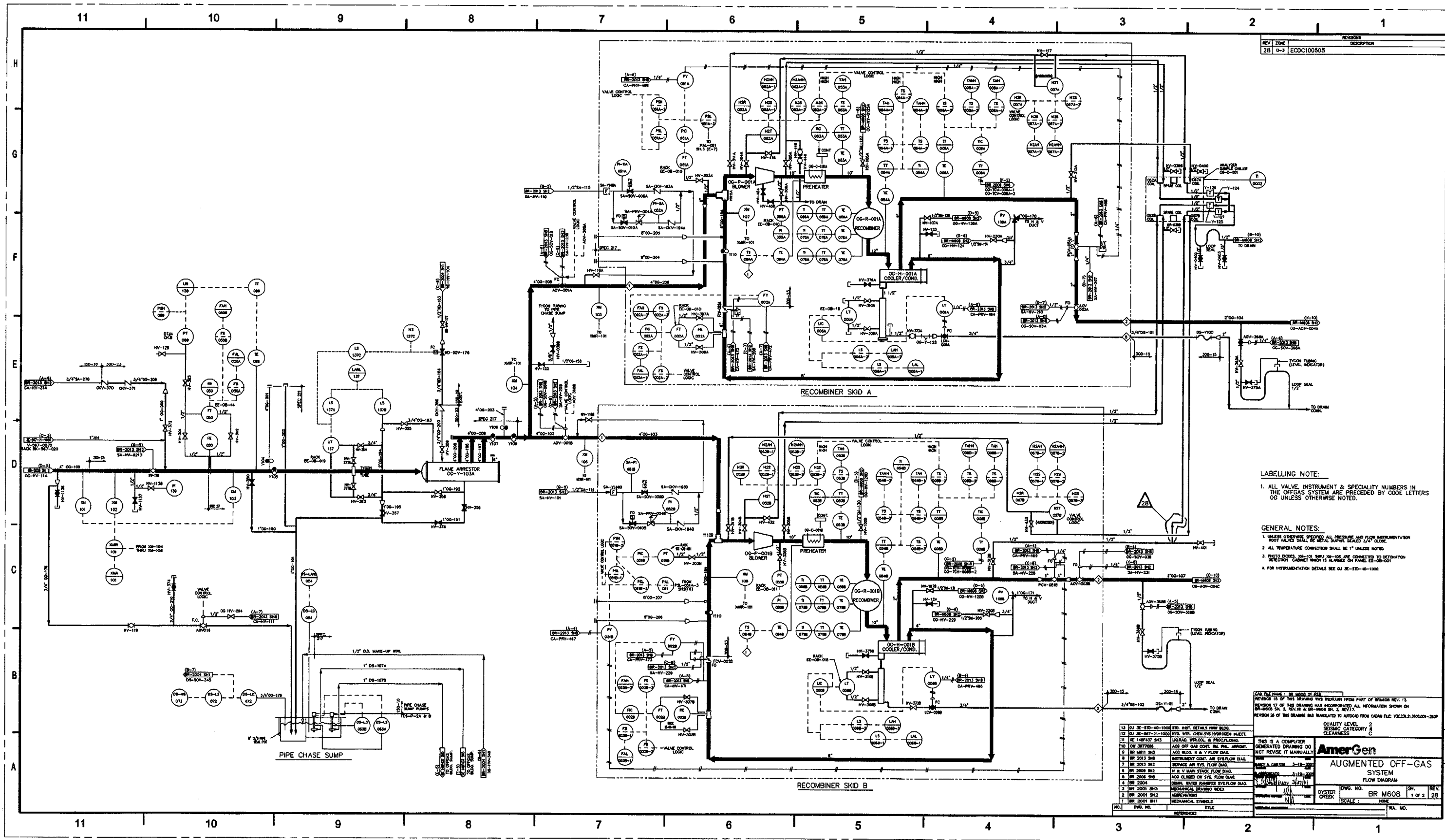


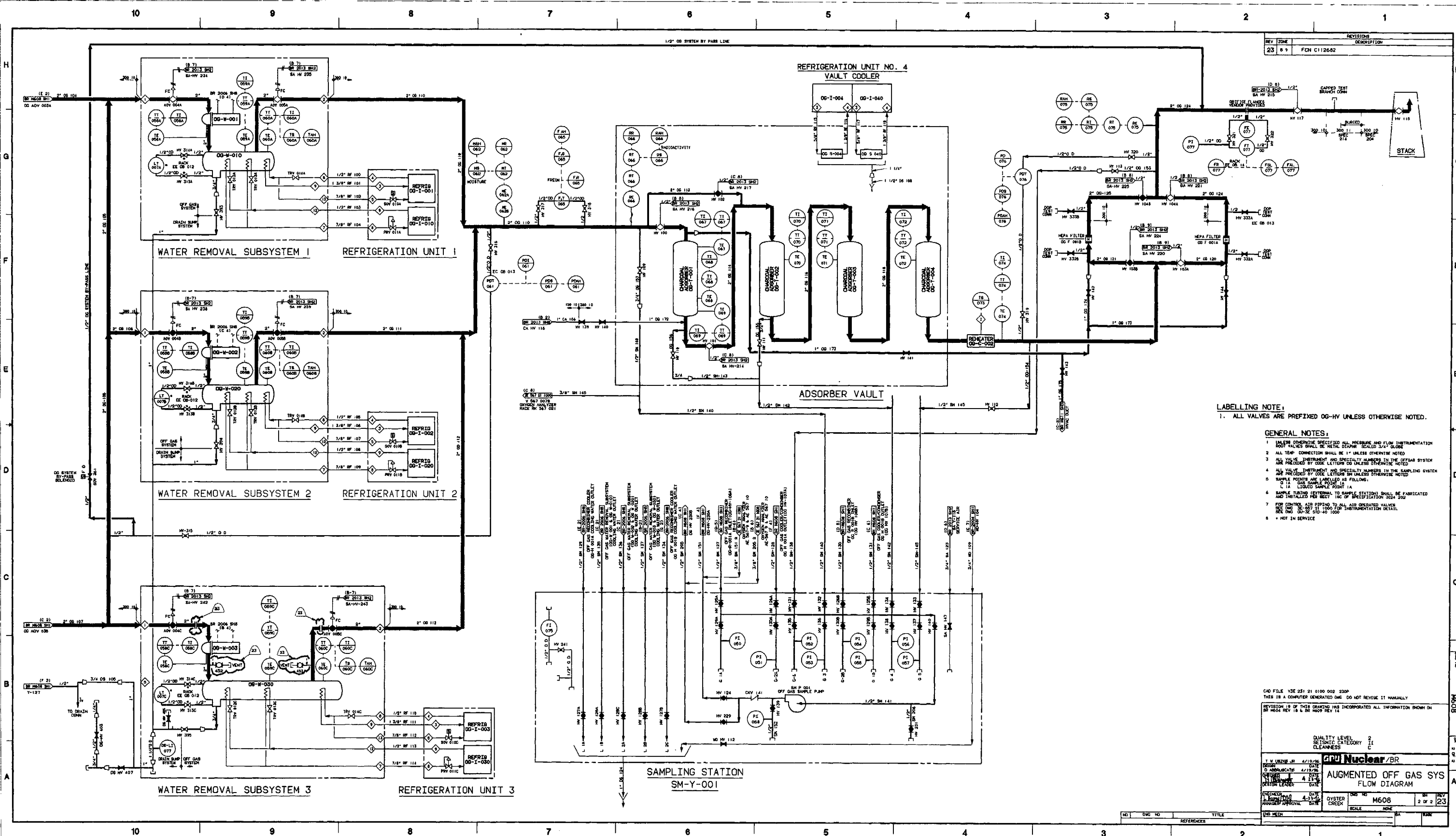
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REV 10		5977	SEE SHEET 1	A.D.T.	R.P.V.	12-2-80		
REV 11		5988	SEE SHEET 1	A.D.T.	R.P.V.	12-7-80		
REV 12		5995	SEE SHEET 1	A.D.T.	R.P.V.	1-11-81		
REV 13		8228	SEE SHEET 1	A.D.T.	R.P.V.	2-2-82		

CUSTOMER: G.P.U. NUCLEAR
PROJECT: OYSTER CREEK NUCLEAR STATION

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TOLERANCES UNLESS OTHERWISE SPECIFIED	FRACTIONAL DIMENSIONS	24" GLOBE BODY N.S.T.V. W/CL OPERATOR MODIFICATION FOR OYSTER CREEK	100% 1/16"
ANGULAR DIMENSIONS	SURFACE FINISH	ALL DIMENSIONS FOR 1/8" & SMALLER UNLESS OTHERWISE SPECIFIED	ATWOOD & MORRILL CO., INC. BALCON HALL
			20451-H







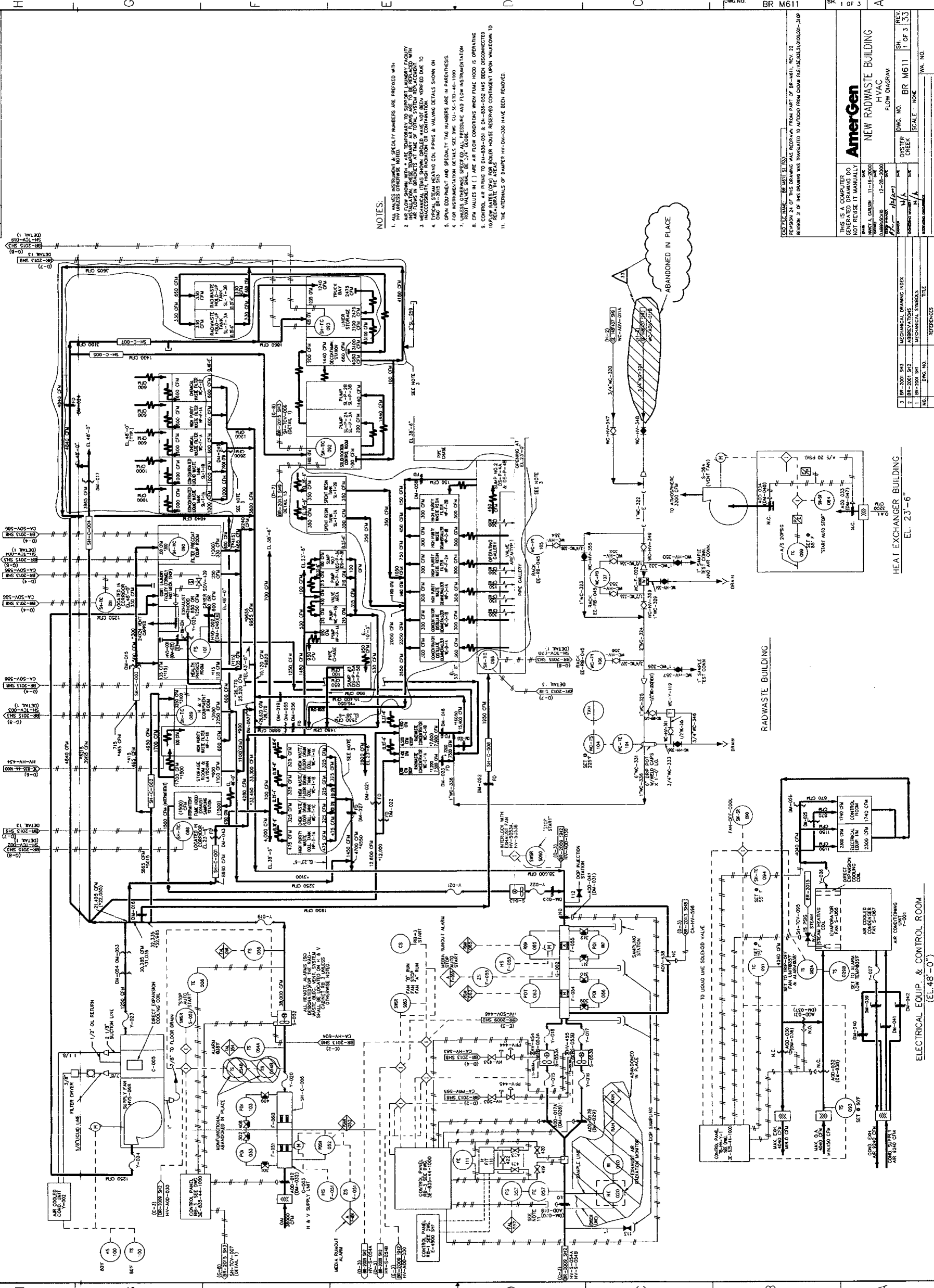
LABELLING NOTE:
1. ALL VALVES ARE PREFIXED OG-HV UNLESS OTHERWISE NOTED.

- GENERAL NOTES:
1. UNLESS OTHERWISE SPECIFIED, ALL PRESSURE AND FLOW INSTRUMENTATION SHALL BE OF THE TYPE SHOWN IN THE DRAWING.
 2. ALL TEMP. CONNECTION SHALL BE 1" UNLESS OTHERWISE NOTED.
 3. ALL VALVE INSTRUMENT AND SPECIALTY NUMBERS IN THE OFFGAS SYSTEM ARE PREFIXED BY CODE LETTERS UNLESS OTHERWISE NOTED.
 4. ALL VALVE INSTRUMENT AND SPECIALTY NUMBERS IN THE SAMPLING SYSTEM ARE PREFIXED BY CODE LETTERS UNLESS OTHERWISE NOTED.
 5. SAMPLE POINTS ARE LOCATED AS FOLLOWS:
a. GAS SAMPLE POINT 1A
b. LIQUID SAMPLE POINT 1A
 6. SAMPLE TUBING (EXTERNAL TO SAMPLE STATION) SHALL BE FABRICATED AND INSTALLED PER DET. 14C OF SPECIFICATION 2024-202.
 7. FOR CONTROL AIR PIPING TO ALL AIR OPERATED VALVES SEE DET. 20-207.21 1000 FOR INSTRUMENTATION DETAIL.
 8. * NOT IN SERVICE

CAD FILE: YSE 251 21 0100 000 220P
THIS IS A COMPUTER GENERATED DWG. DO NOT REVISE IT MANUALLY.
REVISION 19 OF THIS DRAWING HAS INCORPORATED ALL INFORMATION SHOWN ON
BR M604 REV 18 & BR M609 REV 14

QUALITY LEVEL 2 SEISMIC CATEGORY II CLEANNESS C	
T. W. (251) 21 0100 000 220P	
DESIGNED BY: 4/19/76	
CHECKED BY: 4/19/76	
APPROVED BY: 4/23/76	
DESIGNER: 4/23/76	
DRAWN: 4/23/76	
PROJECT: 251 21 0100 000 220P	
SCALE: 1" = 1'-0"	
SHEET: 2 OF 2	
TITLE: AUGMENTED OFF GAS SYS FLOW DIAGRAM	
NO. 251 21 0100 000 220P	
DATE: 4/23/76	
BY: 4/23/76	
CHECKED: 4/23/76	
APPROVED: 4/23/76	
DESIGNED: 4/23/76	
DRAWN: 4/23/76	
PROJECT: 251 21 0100 000 220P	
SCALE: 1" = 1'-0"	
SHEET: 2 OF 2	
TITLE: AUGMENTED OFF GAS SYS FLOW DIAGRAM	
NO. 251 21 0100 000 220P	
DATE: 4/23/76	
BY: 4/23/76	
CHECKED: 4/23/76	
APPROVED: 4/23/76	
DESIGNED: 4/23/76	
DRAWN: 4/23/76	
PROJECT: 251 21 0100 000 220P	
SCALE: 1" = 1'-0"	
SHEET: 2 OF 2	
TITLE: AUGMENTED OFF GAS SYS FLOW DIAGRAM	

REV	ZONE	DESCRIPTION
33	C-3	ECD C312244



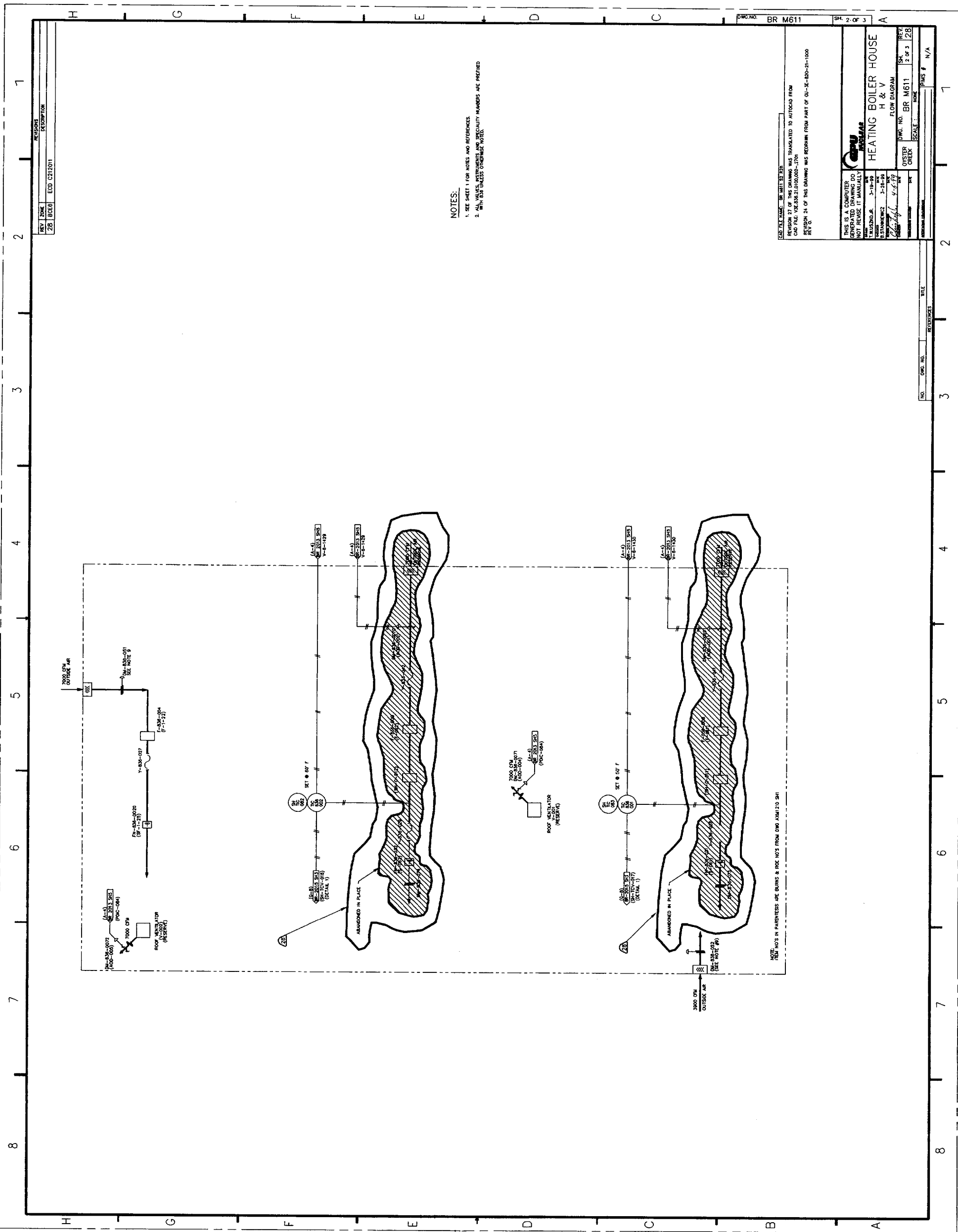
- NOTES:**
1. ALL UNLESS OTHERWISE NOTED.
 2. AIR FLOW SHOWN WITH * ARE TEMPORARY TO SUPPORT LAUNDRY FACILITY.
 3. MECHANICAL ITEMS SHOWN CIRCLED HAVE NOT BEEN VERIFIED DUE TO THE FACT THAT THE BUILDING IS NOT YET CONSTRUCTED.
 4. TYPICAL STEAM HEATING COIL SPRING & VALVING DETAILS SHOWN ON SHEET BR-2015 SH3.
 5. CPW EQUIPMENT AND SPECIALTY TAG NUMBERS ARE IN PARENTHESES.
 6. FOR INSTRUMENTATION DETAILS SEE DMC 00-100-1000.
 7. MOST VALVES SHALL BE 3" NPT.
 8. CPW VALUES IN () ARE AIR FLOW CONDITIONS WHEN FINE MODE IS OPERATING.
 9. CONTROL AIR PIPING TO DM-838-031 & DM-838-032 HAS BEEN DISCONNECTED TO FLOW RATES (CPW) FOR BOILER HOUSE RESERVED CONTINGENT UPON MAINTENANCE TO THE BOILER HOUSE.
 10. THE INTERNALS OF DAMPER HV-DM-300 HAVE BEEN REMOVED.

ECD C312244 BR M611 SH 1 OF 3 A THIS IS A COMPUTER GENERATED DRAWING DO NOT REUSE IT MANUALLY DATE: 11-14-2000 DRAWN BY: N/A CHECKED BY: N/A SCALE: NONE PROJECT: NEW RADWASTE BUILDING SHEET: BR M611 1 OF 3 REV: 1 REVISION: 1	OYSTER CREEK BR M611 SCALE: NONE PROJECT: NEW RADWASTE BUILDING SHEET: BR M611 1 OF 3 REV: 1 REVISION: 1
--	--

NO.	DESCRIPTION	REFERENCE
1	MECHANICAL SYMBOLS	
2	MECHANICAL DRAWING INDEX	
3	BR-2001 SH3	
4	BR-2001 SH2	
5	BR-2001 SH1	

HEAT EXCHANGER BUILDING
EL. 23'-6"

ELECTRICAL EQUIP. & CONTROL ROOM
(EL. 48'-0")



REV	DATE	DESCRIPTION
30	B-7	ECO C307403

- NOTES:
- SEE SHEET 1 FOR NOTES AND REFERENCES.
 - ALL VALVES, INSTRUMENTS AND SPECIALTY NUMBERS ARE PREFIRED BY HYV-HV- UNLESS OTHERWISE NOTED.

LEGEND :

OLD FILE NAME: BR UNIT 53 R30
 REVISION 27 OF THIS DRAWING WAS REISSUED FROM PART OF V7 000552.
 REVISION 28 OF THIS DRAWING WAS ISSUED TO AUTOCAD FROM CADAM FILE: (K237)21090203-2801.

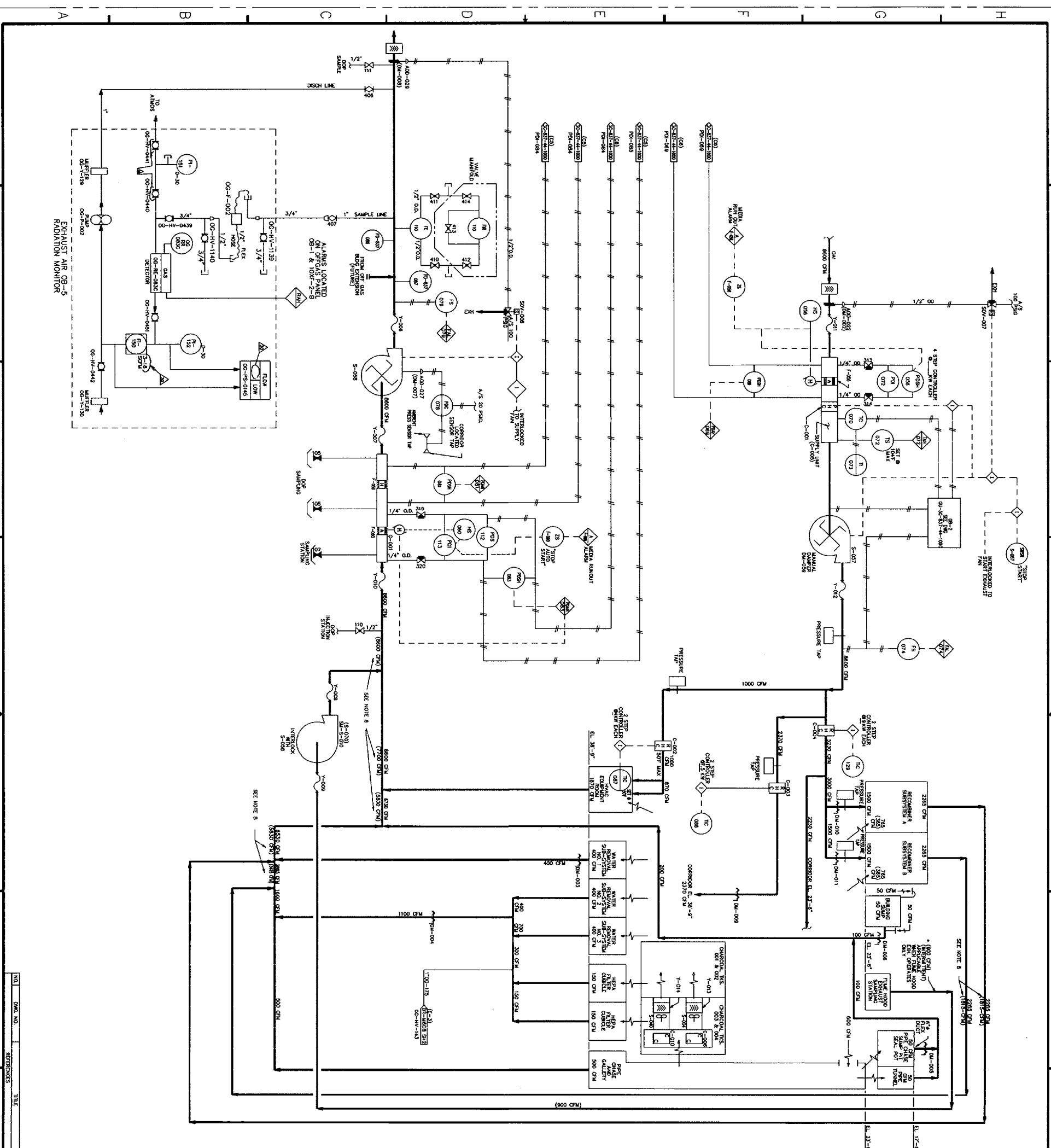
THIS IS A COMPUTER GENERATED DRAWING DO NOT REUSE IT MANUALLY

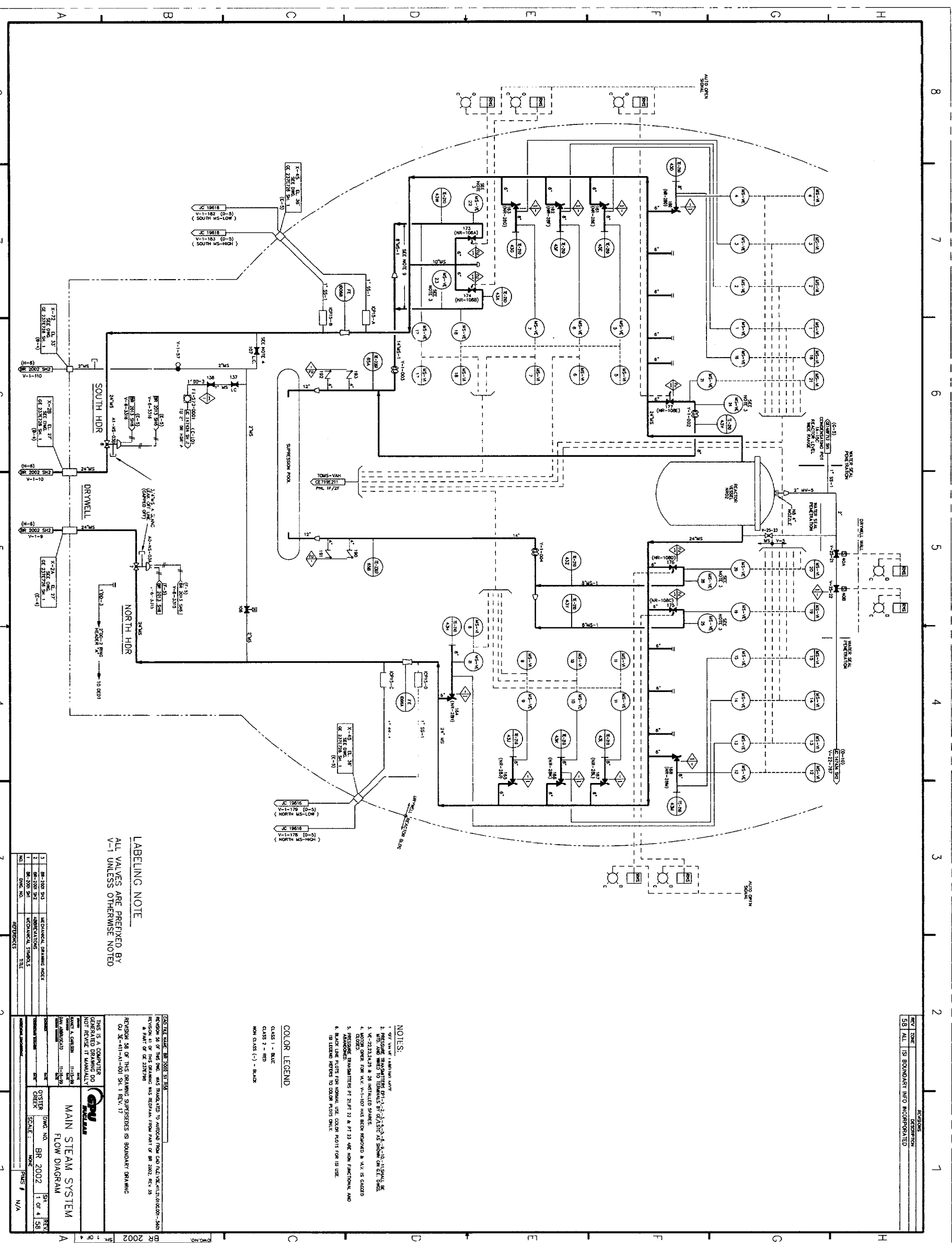
Capu
 H & V
 FLOW DIAGRAM

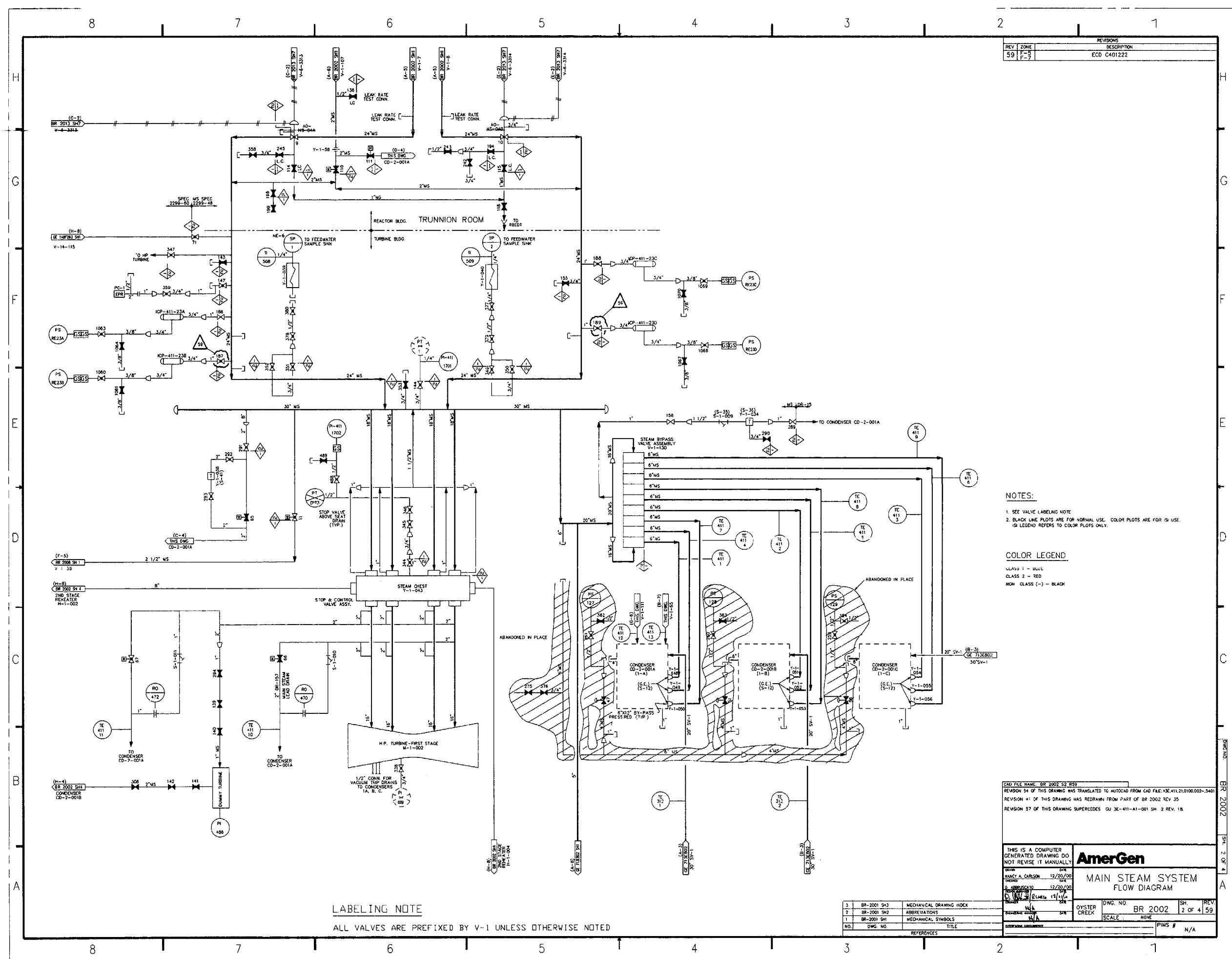
OWNER: BR M611
 SCALE: NONE
 PMS: N/A

DATE: 3/2/98
 DRAWN: 5/1/98
 CHECK: 3/3/98

REV: 3 OF 3
 SH: 30







REV		ZONE		DESCRIPTION	
59	F-5	F-5	F-5	ECD	C401222

- NOTES:
- SEE VALVE LABELING NOTE
 - BLACK LINE PLOTS ARE FOR NORMAL USE. COLOR PLOTS ARE FOR ISI USE.
 - ISI LEGEND REFERS TO COLOR PLOTS ONLY.

COLOR LEGEND

CLASS 1 - BLUE

CLASS 2 - RED

NON CLASS (-) - BLACK

LABELING NOTE

ALL VALVES ARE PREFIXED BY V-1 UNLESS OTHERWISE NOTED

DWG FILE NAME: BR_2002_S2_REV59

REVISION 54 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CAD FILE: XE-411.210100.002-5401

REVISION 41 OF THIS DRAWING WAS REDRAWN FROM PART OF BR 2002 REV 35

REVISION 57 OF THIS DRAWING SUPERCEDES GU SE-411-A1-001 SH. 2 REV. 1B.

THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY

DATE: 12/20/00

BY: HANCO A. CARLSON

CHECKED: 12/20/00

APPROVED: 12/20/00

SCALE: 1/4" = 1'-0"

DATE: 12/20/00

BY: HANCO A. CARLSON

CHECKED: 12/20/00

APPROVED: 12/20/00

AmerGen

MAIN STEAM SYSTEM FLOW DIAGRAM

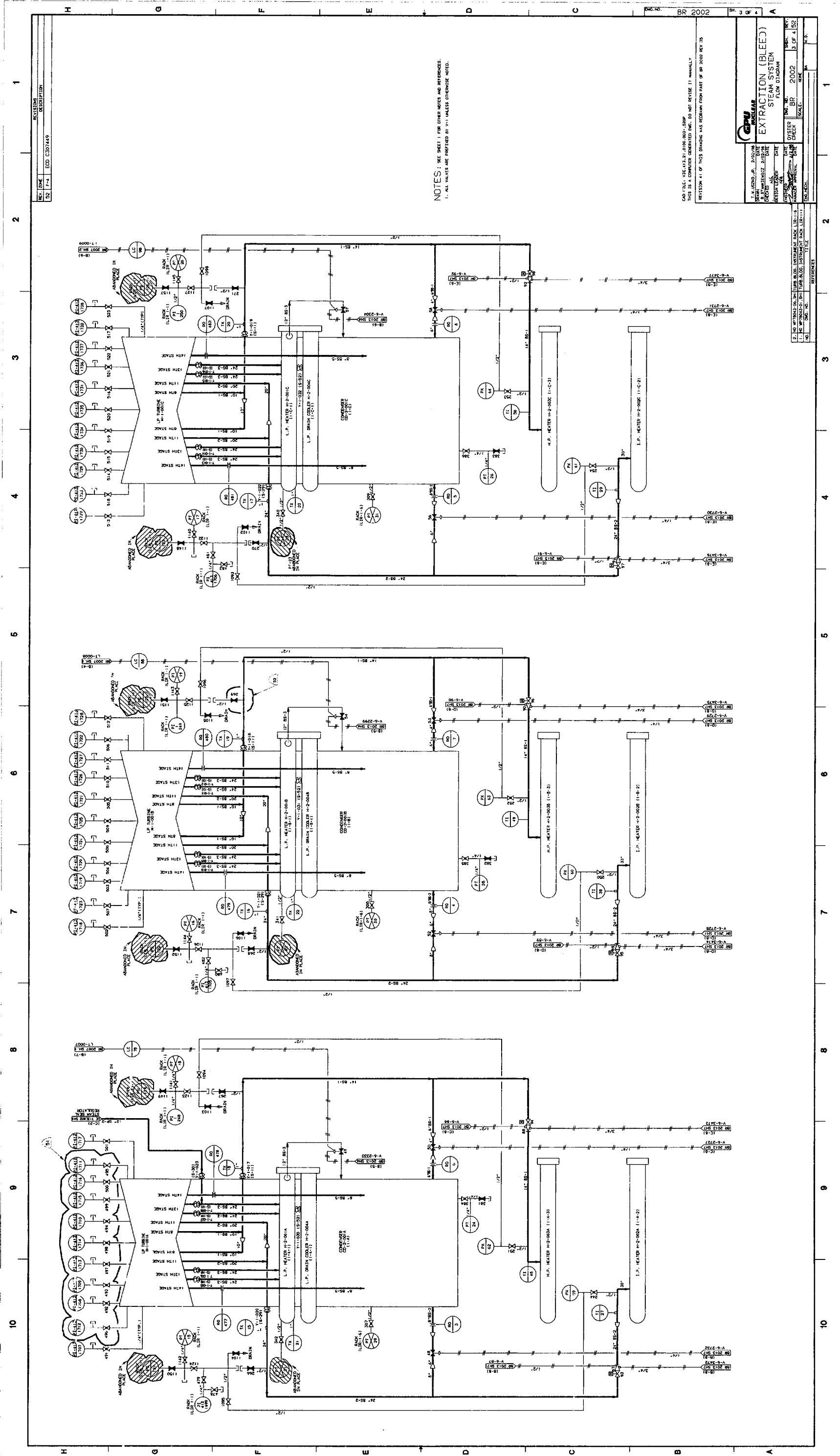
DWG. NO. BR 2002 SH. 2 OF 4

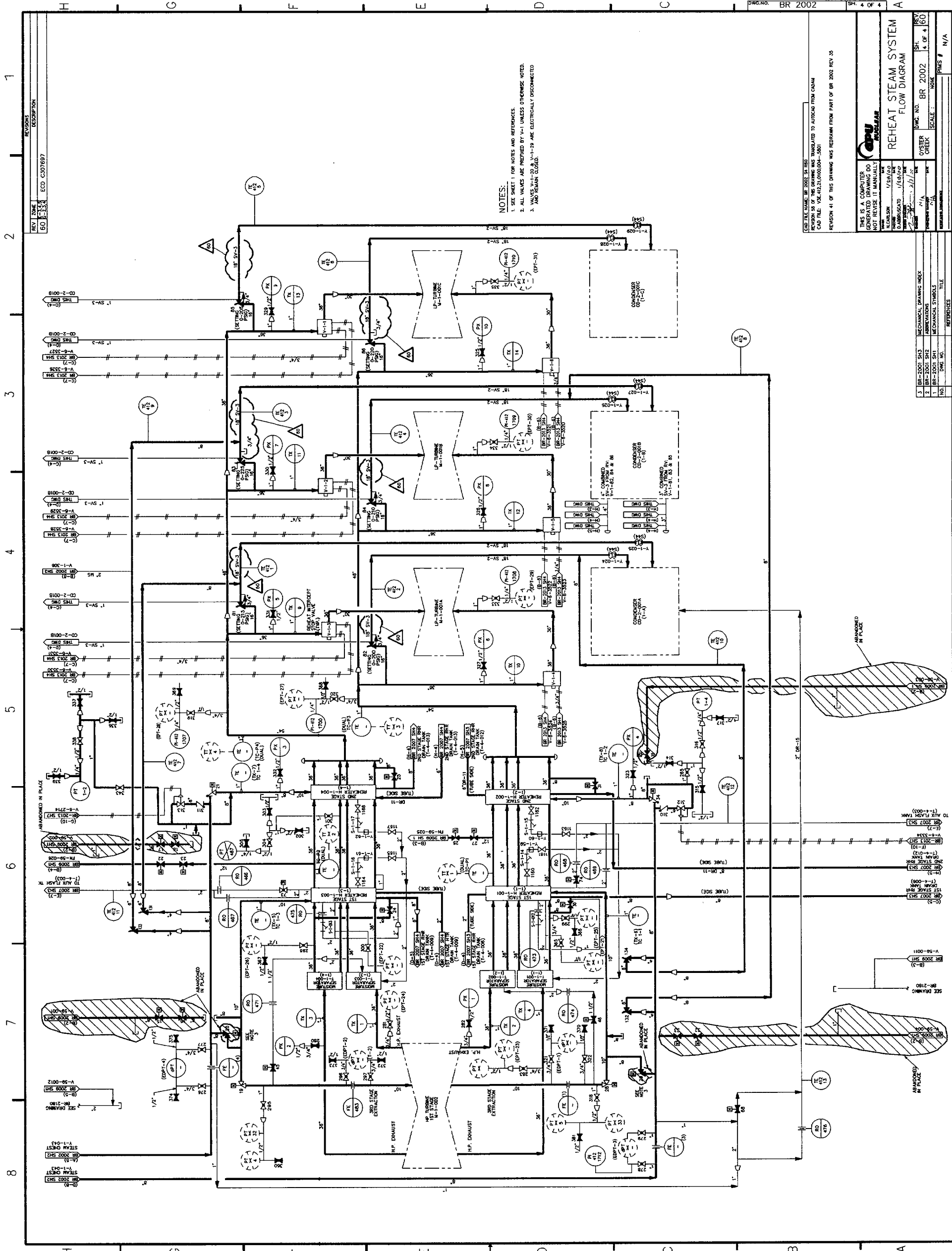
SCALE: NONE

PIMS # N/A

3	BR-2001 SH3	MECHANICAL DRAWING INDEX
2	BR-2001 SH2	ABBREVIATIONS
1	BR-2001 SH1	MECHANICAL SYMBOLS
NO.	DWG. NO.	TITLE

BR 2002 SH. 2 OF 4





NOTES:
1. SEE SHEET 1 FOR NOTES AND REFERENCES.
2. ALL VALVES ARE PROVIDED BY V-1 UNLESS OTHERWISE NOTED.
3. VALVES V-1-20 & V-1-19 ARE ELECTRICALLY DISCONNECTED AND REMAIN CLOSED.

THIS IS A COMPUTER GENERATED DRAWING DO NOT REUSE IT MANUALLY

REHEAT STEAM SYSTEM FLOW DIAGRAM

BR-2002

OSTER CREEK

SCALE: 1" = 60'

DATE: 11/1/02

BY: [Signature]

CHKD BY: [Signature]

APPROVED BY: [Signature]

NO. 1

DATE: 11/1/02

BY: [Signature]

CHKD BY: [Signature]

APPROVED BY: [Signature]

NO. 2

DATE: 11/1/02

BY: [Signature]

CHKD BY: [Signature]

APPROVED BY: [Signature]

NO. 3

DATE: 11/1/02

BY: [Signature]

CHKD BY: [Signature]

APPROVED BY: [Signature]

NO.	DATE	BY	CHKD	APPROVED
1	11/1/02	[Signature]	[Signature]	[Signature]
2	11/1/02	[Signature]	[Signature]	[Signature]
3	11/1/02	[Signature]	[Signature]	[Signature]

NO.	DATE	BY	CHKD	APPROVED
1	11/1/02	[Signature]	[Signature]	[Signature]
2	11/1/02	[Signature]	[Signature]	[Signature]
3	11/1/02	[Signature]	[Signature]	[Signature]

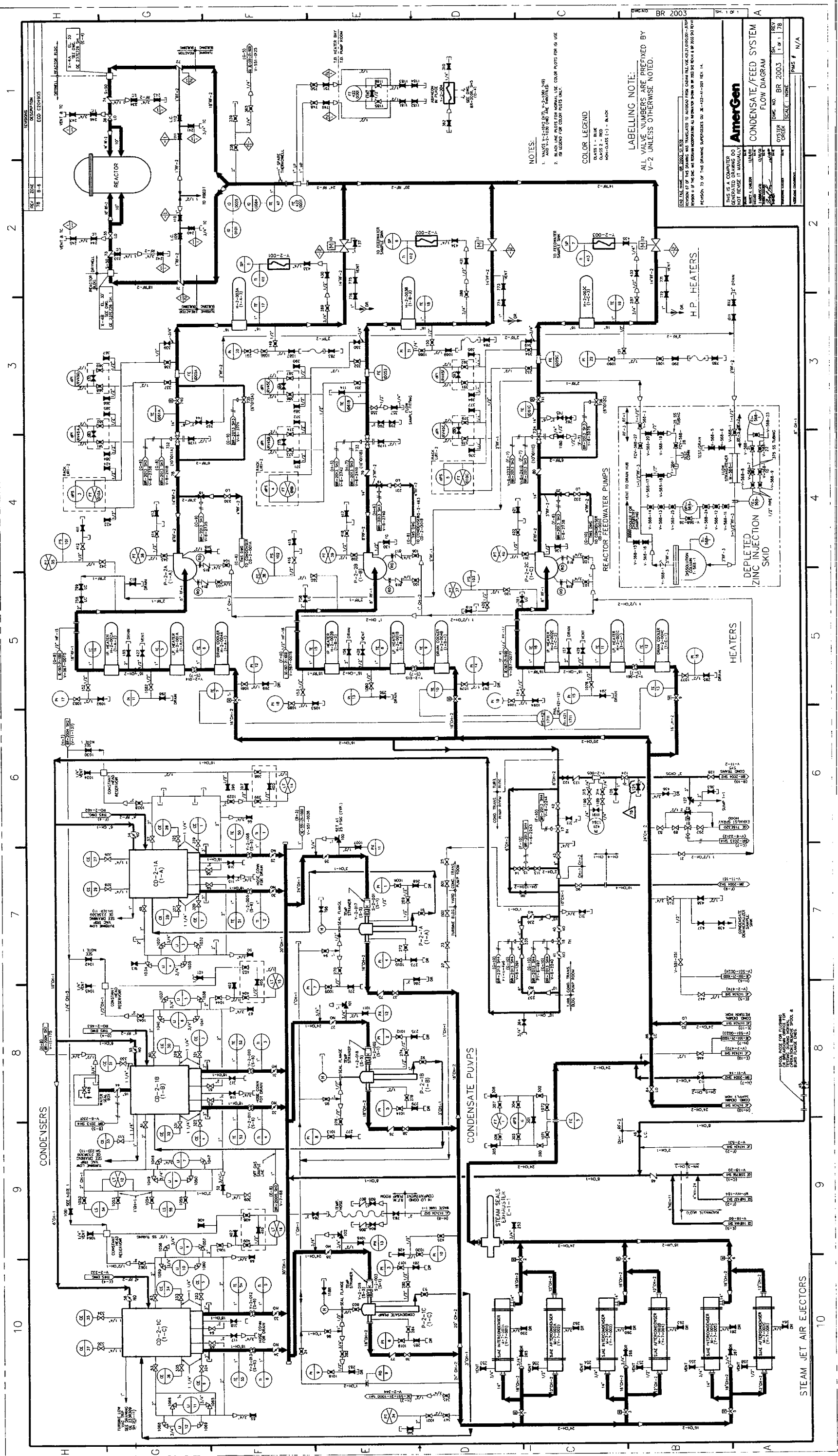
NO.	DATE	BY	CHKD	APPROVED
1	11/1/02	[Signature]	[Signature]	[Signature]
2	11/1/02	[Signature]	[Signature]	[Signature]
3	11/1/02	[Signature]	[Signature]	[Signature]

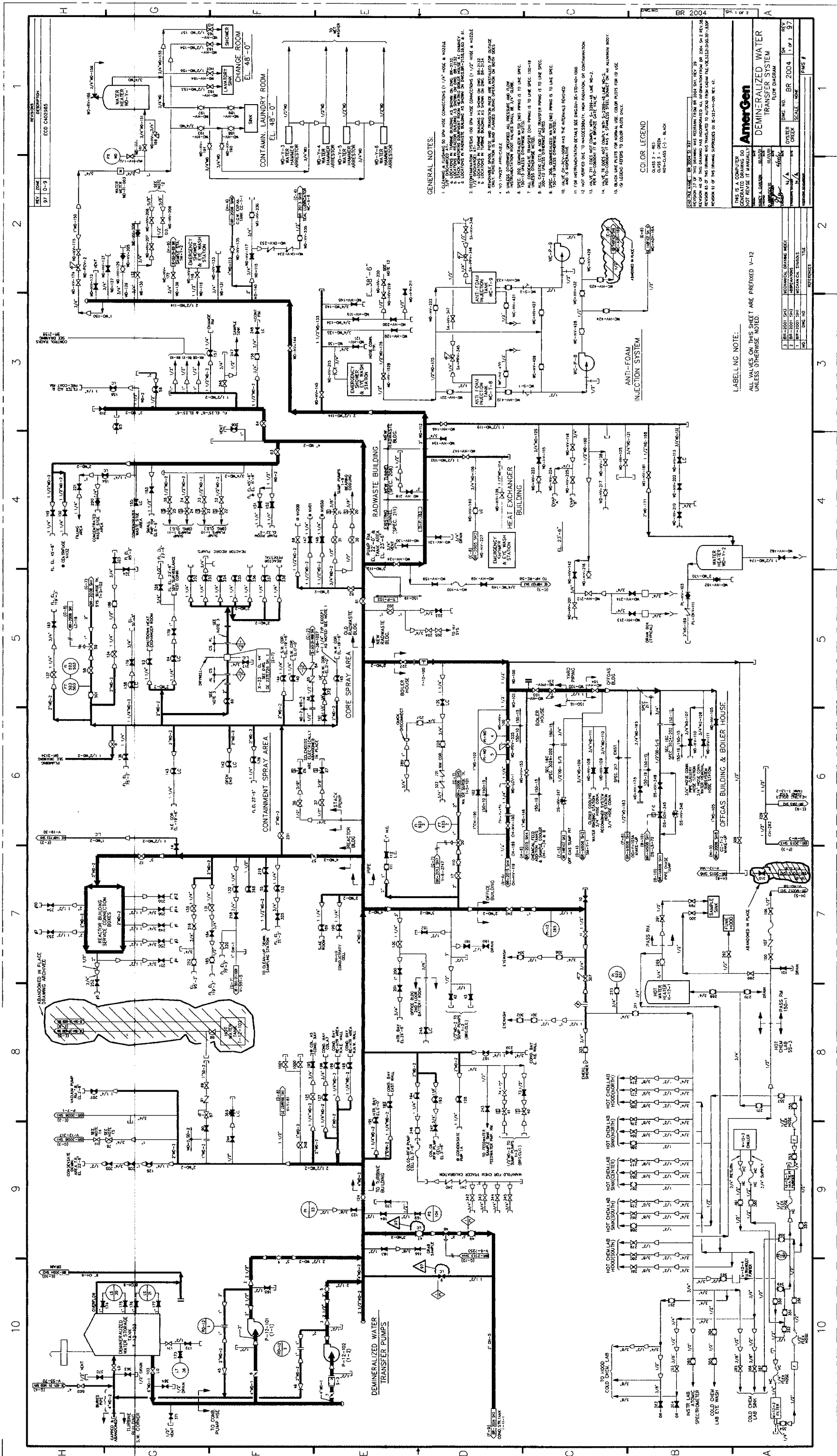
NO.	DATE	BY	CHKD	APPROVED
1	11/1/02	[Signature]	[Signature]	[Signature]
2	11/1/02	[Signature]	[Signature]	[Signature]
3	11/1/02	[Signature]	[Signature]	[Signature]

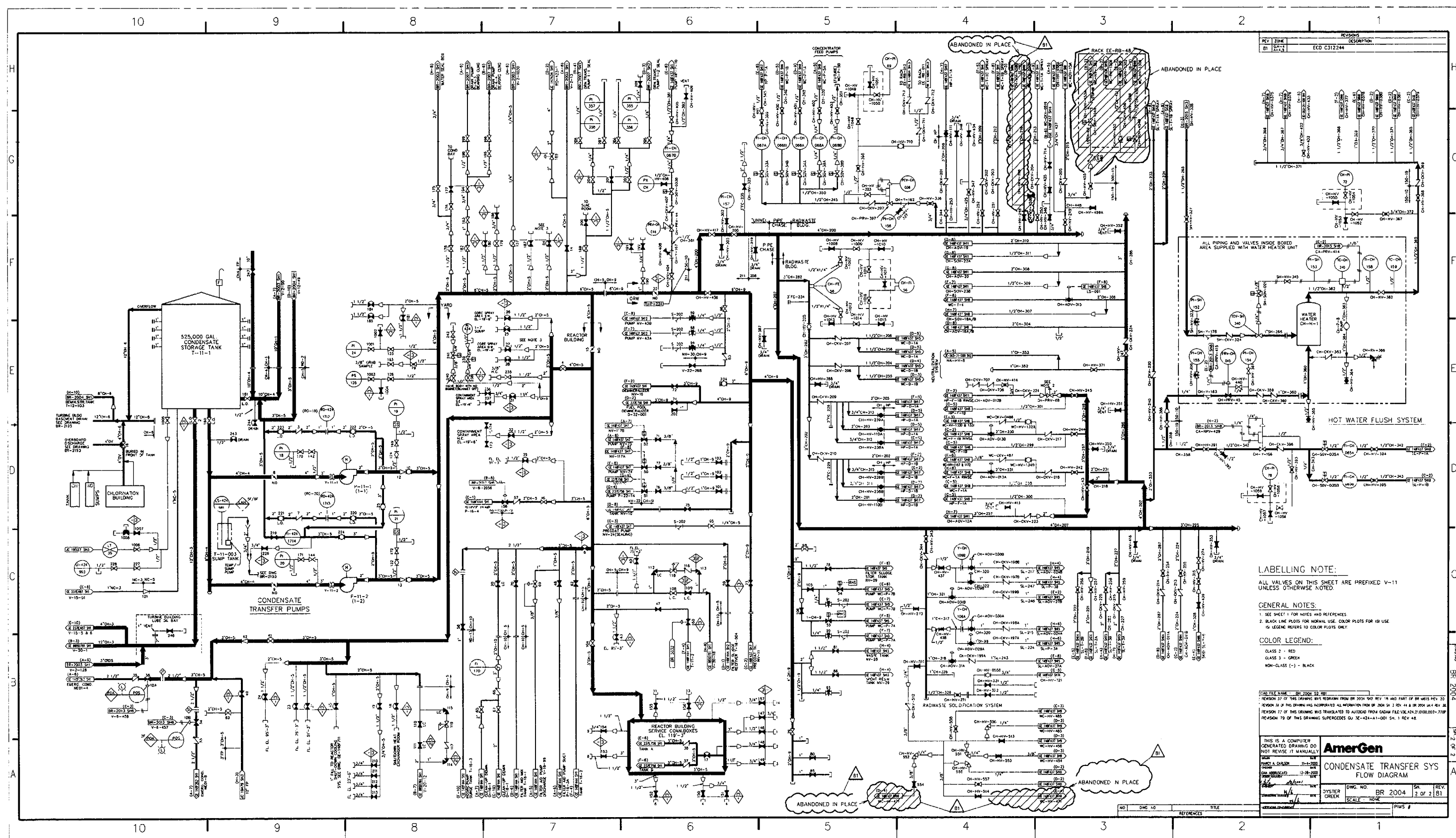
NO.	DATE	BY	CHKD	APPROVED
1	11/1/02	[Signature]	[Signature]	[Signature]
2	11/1/02	[Signature]	[Signature]	[Signature]
3	11/1/02	[Signature]	[Signature]	[Signature]

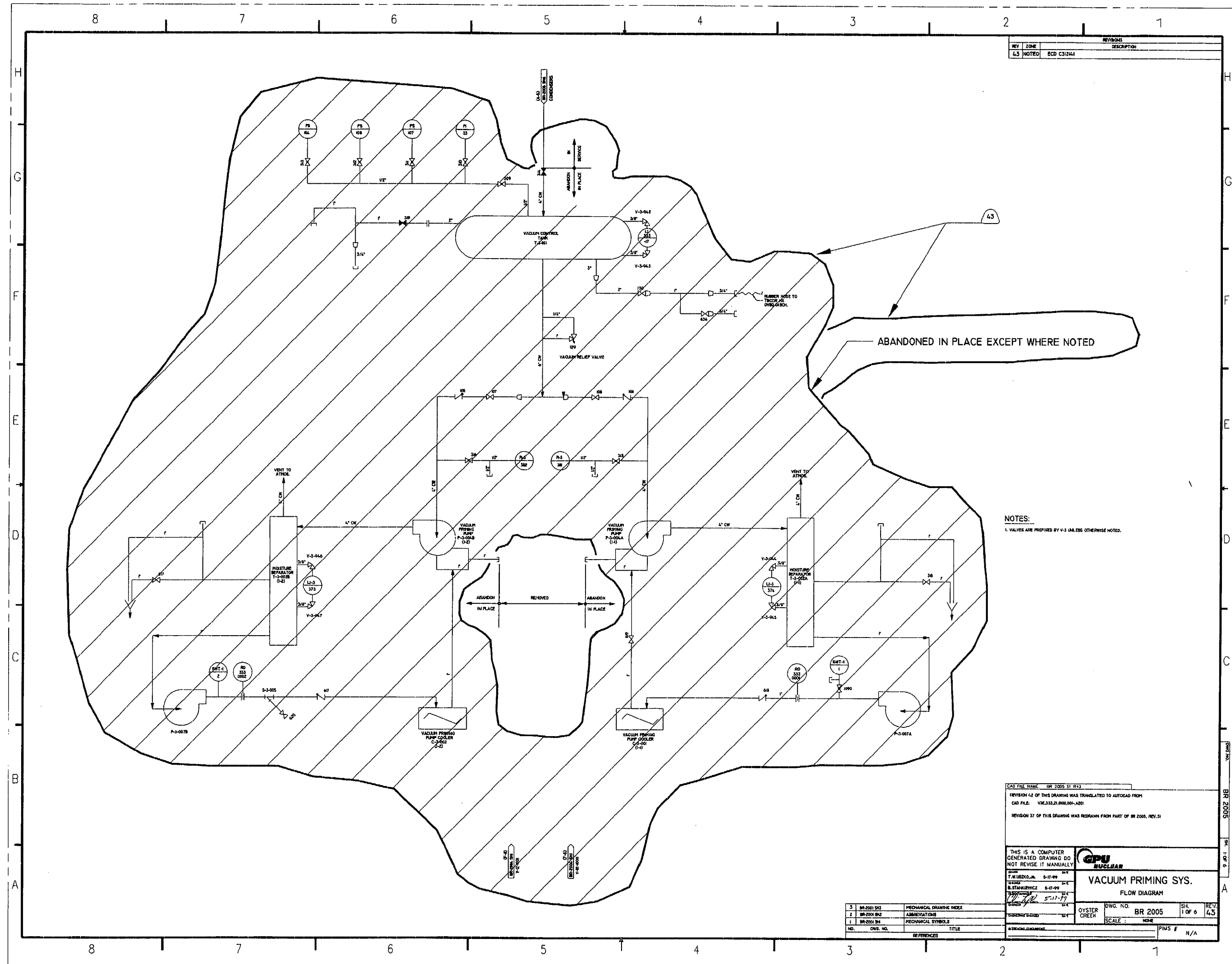
NO.	DATE	BY	CHKD	APPROVED
1	11/1/02	[Signature]	[Signature]	[Signature]
2	11/1/02	[Signature]	[Signature]	[Signature]
3	11/1/02	[Signature]	[Signature]	[Signature]

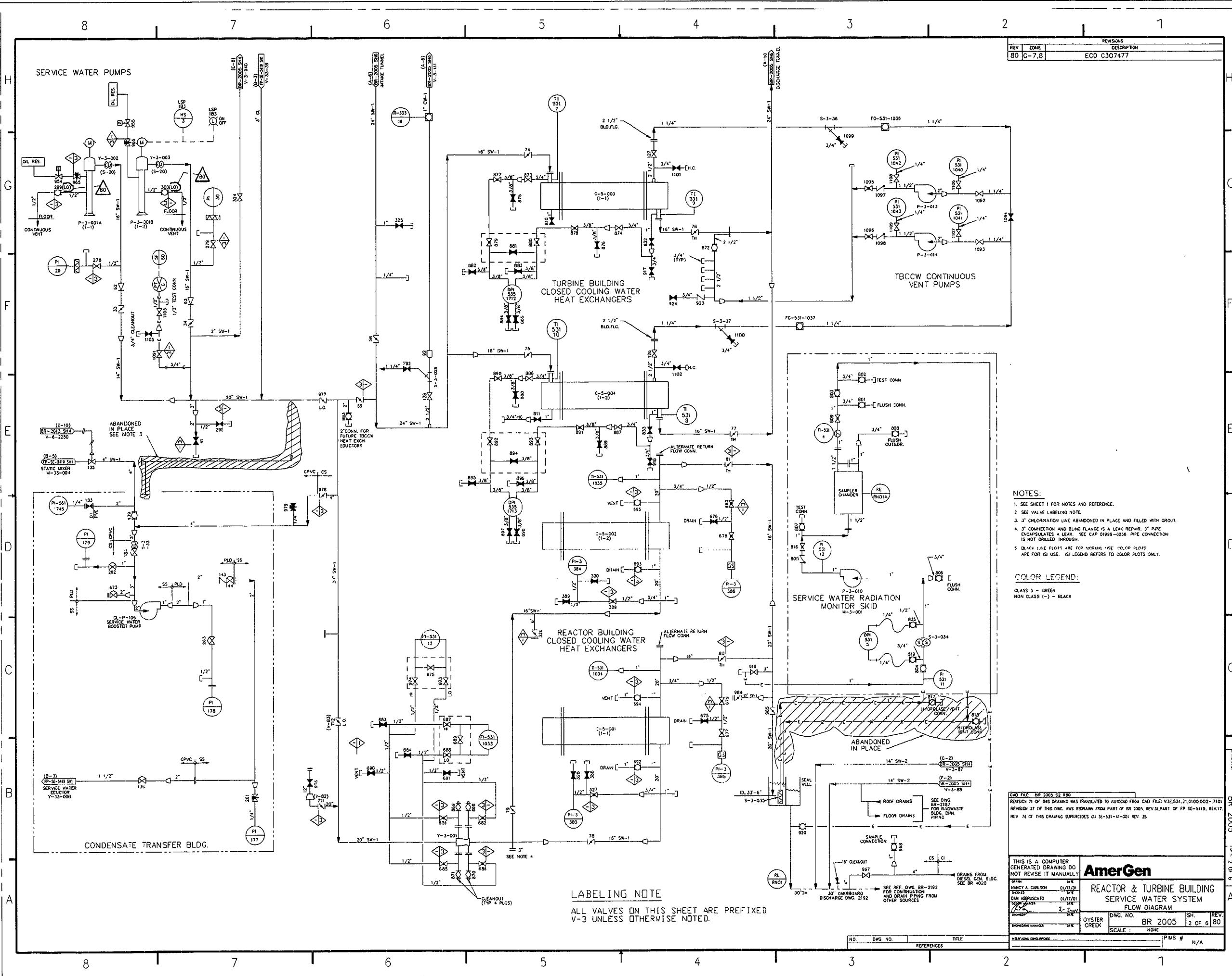
NO.	DATE	BY	CHKD	APPROVED
1	11/1/02	[Signature]	[Signature]	[Signature]
2	11/1/02	[Signature]	[Signature]	[Signature]
3	11/1/02	[Signature]	[Signature]	[Signature]











REV		ZONE	DESCRIPTION
80	G-7.8		ECO C307477

- NOTES:
- SEE SHEET 1 FOR NOTES AND REFERENCE.
 - SEE VALVE LABELING NOTE.
 - 3" OR LARGER LINE ABANDONED IN PLACE AND FILLED WITH GROUT.
 - 3" CONNECTION AND BLIND FLANGE IS A LEAK REPAIR. 3" PIPE DISCONTINUES A LEAK. SEE CAP 01999-0236 PIPE CONNECTION IS NOT DRILLED THROUGH.
 - BLACK LINE PLOTS ARE FOR NORMAL USE. COLOR PLOTS ARE FOR ISI USE. ISI LEGEND REFERS TO COLOR PLOTS ONLY.

COLOR LEGEND:

CLASS 3 - GREEN

NON CLASS (-) - BLACK

LABELING NOTE

ALL VALVES ON THIS SHEET ARE PREFIXED V-3 UNLESS OTHERWISE NOTED.

CAD FILE: BR 2005 52 R60

REVISION 11 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CAD FILE: V3E531.21.0100.002-7101

REVISION 37 OF THIS Dwg. WAS REBORN FROM PART OF BR 2005, REV.33, PART OF FP SE-3419, REV.17.

REV. 14 OF THIS DRAWING SUPERCEDES QU SE-531-A1-001 REV. 35.

THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY

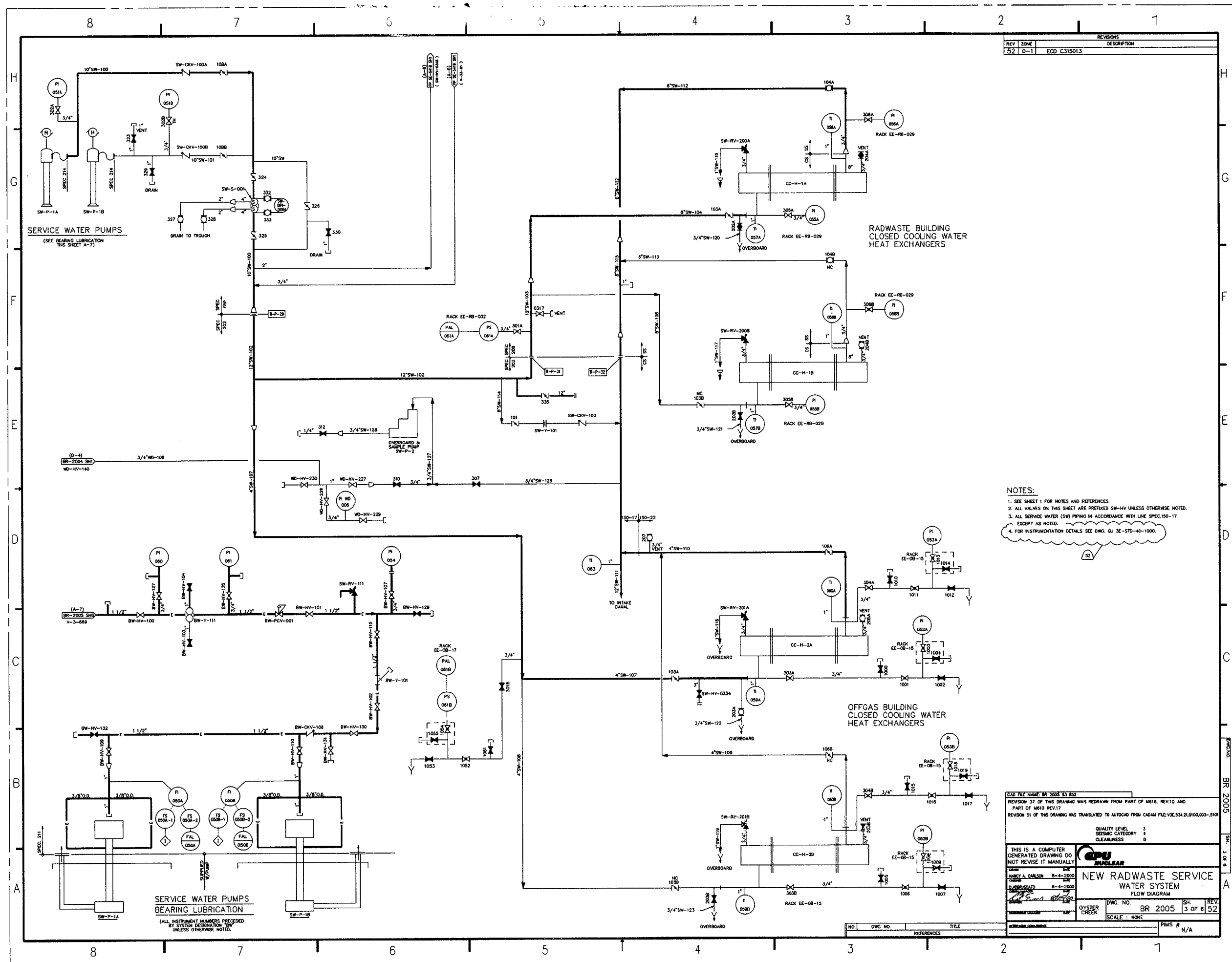
AmerGen

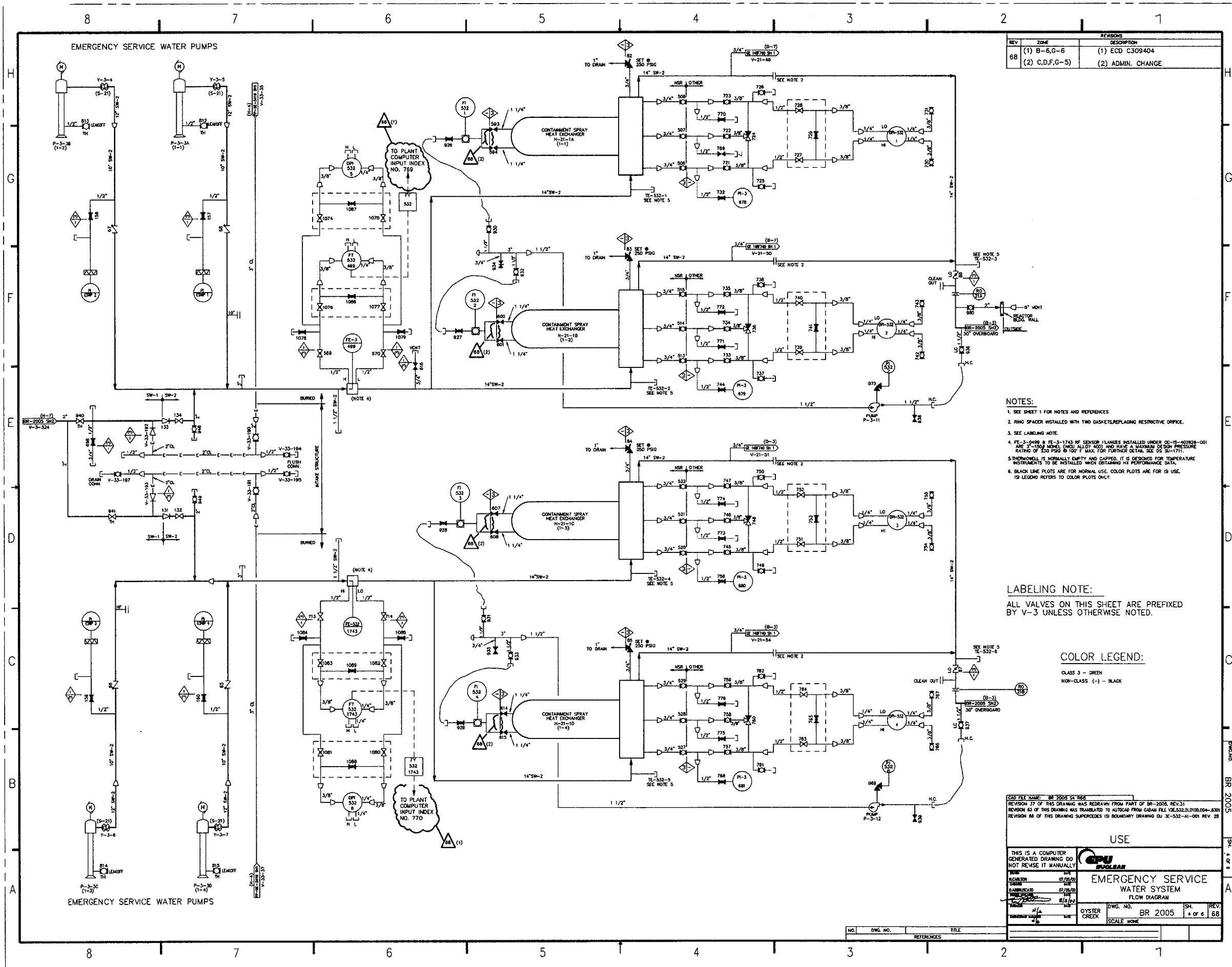
REACTOR & TURBINE BUILDING SERVICE WATER SYSTEM FLOW DIAGRAM

DESIGNED BY NANCY A. CARLSON 01/17/01	CHECKED BY DAN ABRAHAMO 01/17/01	DATE 01/17/01
DRAWN BY 2-2-V		SCALE NONE
DWG. NO. BR 2005		SH. 2 OF 6
OYSTER CREEK		REV. 80

REVISIONS

NO.	DWG. NO.	REFERENCES	TITLE





REV	ZONE	DESCRIPTION
68	(1) B-6,G-6 (2) C,D,F,G-5	(1) ECD C309404 (2) ADMIN. CHANGE

- NOTES:
- SEE SHEET 1 FOR NOTES AND REFERENCES.
 - RING SPACER INSTALLED WITH TWO GASKETS, REPLACING RESTRICTIVE ORIFICE.
 - SEE LABELING NOTE.
 - FE-3-0400 & FE-3-1743 RT SENSOR FLANGES INSTALLED UNDER SC-15-10000-001 ARE 3"-150# MODEL (WIG ALLOY 400) AND HAVE A MAXIMUM DESIGN PRESSURE RATING OF 250 PSIG @ 100°F MAX. FOR FURTHER DETAIL SEE US 30-1771.
 - THERMOWELL IS NORMALLY EMPTY AND CAPPED. IT IS DESIGNED FOR TEMPERATURE INSTRUMENTS TO BE INSTALLED WHEN OBTAINING PERFORMANCE DATA.
 - BLACK LINE PLOTS ARE FOR NORMAL USE. COLOR PLOTS ARE FOR IS USE. 13 LEGEND REFERS TO COLOR PLOTS ONLY.

LABELING NOTE:
ALL VALVES ON THIS SHEET ARE PREFIXED BY V-3 UNLESS OTHERWISE NOTED.

COLOR LEGEND:

- CLASS 3 - GREEN
NON-CLASS (-) - BLACK

CAO FILE NAME: BR 2005 54 806
REVISION 37 OF THIS DRAWING WAS REDRAWN FROM PART OF BR-2005, REV.31
REVISION 43 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CADWAT FILE 19E332JL000004-430
REVISION 68 OF THIS DRAWING SUPERCEDES IS BOUNDARY DRAWING DU 3E-532-AI-001 REV. 28

USE

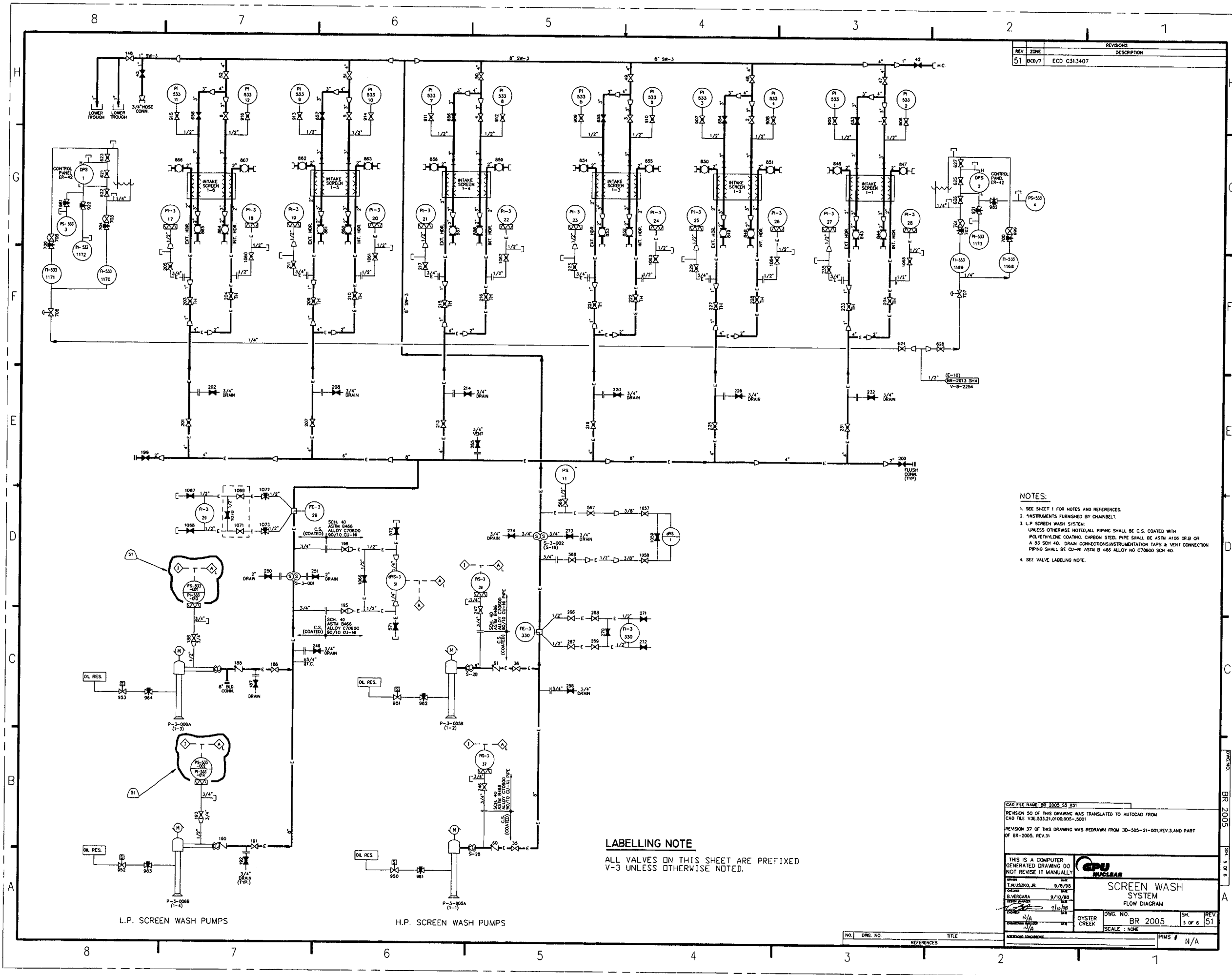
THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY

DATE: 07/26/00
DRAWN BY: J. J. J.
CHECKED BY: J. J. J.
APPROVED BY: J. J. J.

EMERGENCY SERVICE WATER SYSTEM
FLOW DIAGRAM

DWG. NO. BR 2005 54 806
OYSTER CREEK
SCALE: NONE

REV. 4 OF 6 68



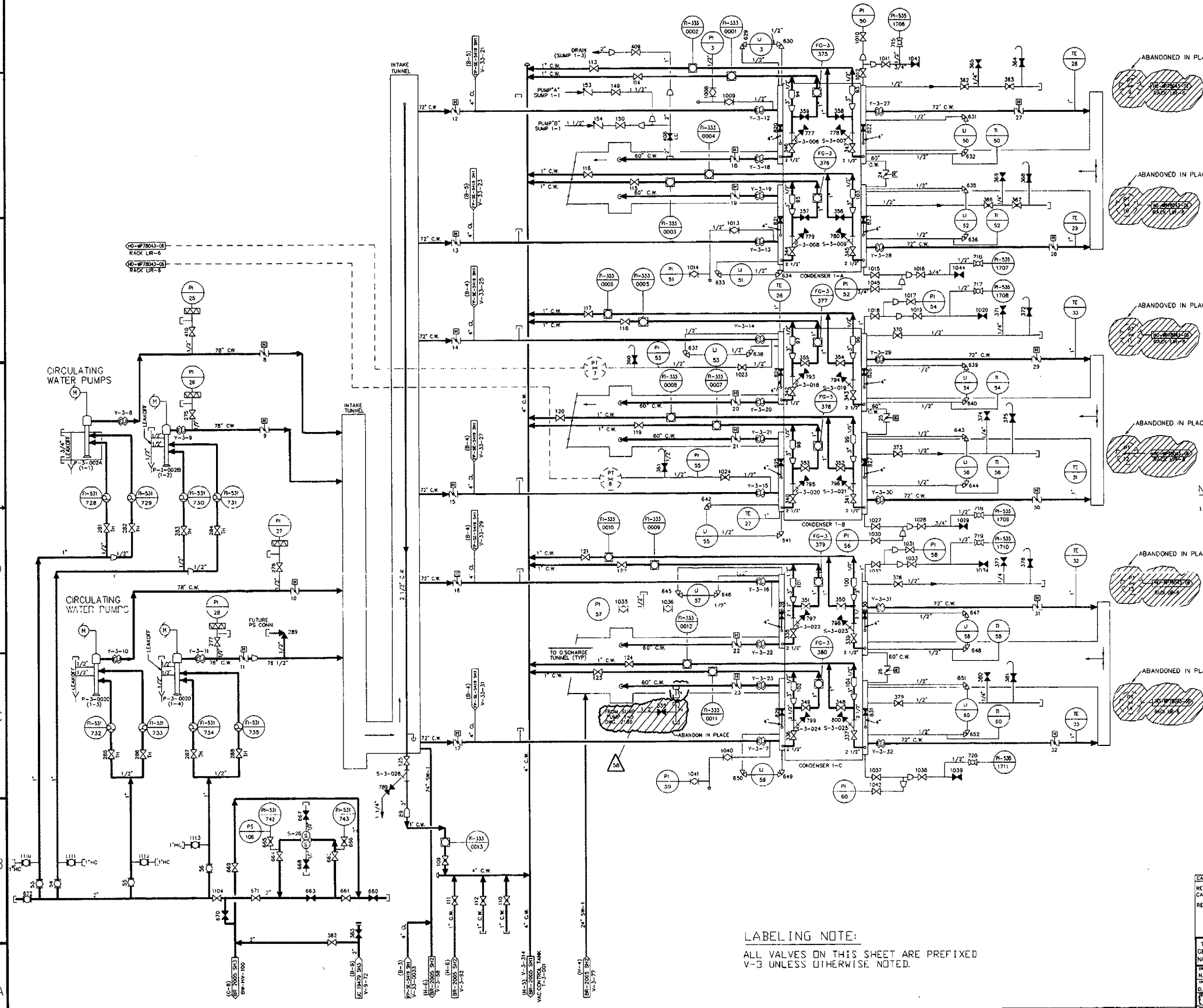
REVISIONS		DESCRIPTION
REV	ZONE	
51	BCD/7	ECD C313407

- NOTES:
- SEE SHEET 1 FOR NOTES AND REFERENCES.
 - INSTRUMENTS FURNISHED BY CHAINBELT.
 - L.P. SCREEN WASH SYSTEM:
UNLESS OTHERWISE NOTED, ALL PIPING SHALL BE C.S. COATED WITH POLYETHYLENE COATING. CARBON STEEL PIPE SHALL BE ASTM A106 OR B OR A 53 SCH 40. DRAIN CONNECTIONS, INSTRUMENTATION TAPS & VENT CONNECTION PIPING SHALL BE CU-NI ASTM B 468 ALLOY NO C70600 SCH 40.
 - SEE VALVE LABELING NOTE.

LABELLING NOTE
ALL VALVES ON THIS SHEET ARE PREFIXED V-3 UNLESS OTHERWISE NOTED.

CAD FILE NAME: BR 2005 53 REV	
REVISION 50 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CAD FILE V36.533.21.0100.005-5001	
REVISION 37 OF THIS DRAWING WAS REDRAWN FROM 30-505-21-001, REV. 3 AND PART OF BR-2005, REV. 31	
THIS IS A COMPUTER GENERATED DRAWING DO NOT REUSE IT MANUALLY	
T. J. KUSZKO, JR. DATE 9/7/98 DESIGNED B. VARGAS DATE 8/10/98 DRAWN N/A DATE 9/10/98 CHECKED N/A DATE N/A DATE	GPU NUCLEAR SCREEN WASH SYSTEM FLOW DIAGRAM OYSTER CREEK DWG. NO. BR 2005 SHEET 5 OF 6 SCALE: NONE PIMS # N/A

REVISIONS	
REV	DESCRIPTION
58	G-5 ECD C314576



NOTES:
1. SEE VALVE LABELING NOTE

LABELING NOTE:
ALL VALVES ON THIS SHEET ARE PREFIXED V-3 UNLESS OTHERWISE NOTED.

NO.	DWG. NO.	REFERENCES	TITLE
1	BR 2001 SH3	MECHANICAL DRAWING INDEX	
2	BR 2001 SH2	ABBREVIATIONS	
3	BR 2001 SH1	MECHANICAL SYMBOLS	

CAD FILE NAME: BR 2005 56 R506

REVISION 54 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CAD FILE V3E535210100.006-540P

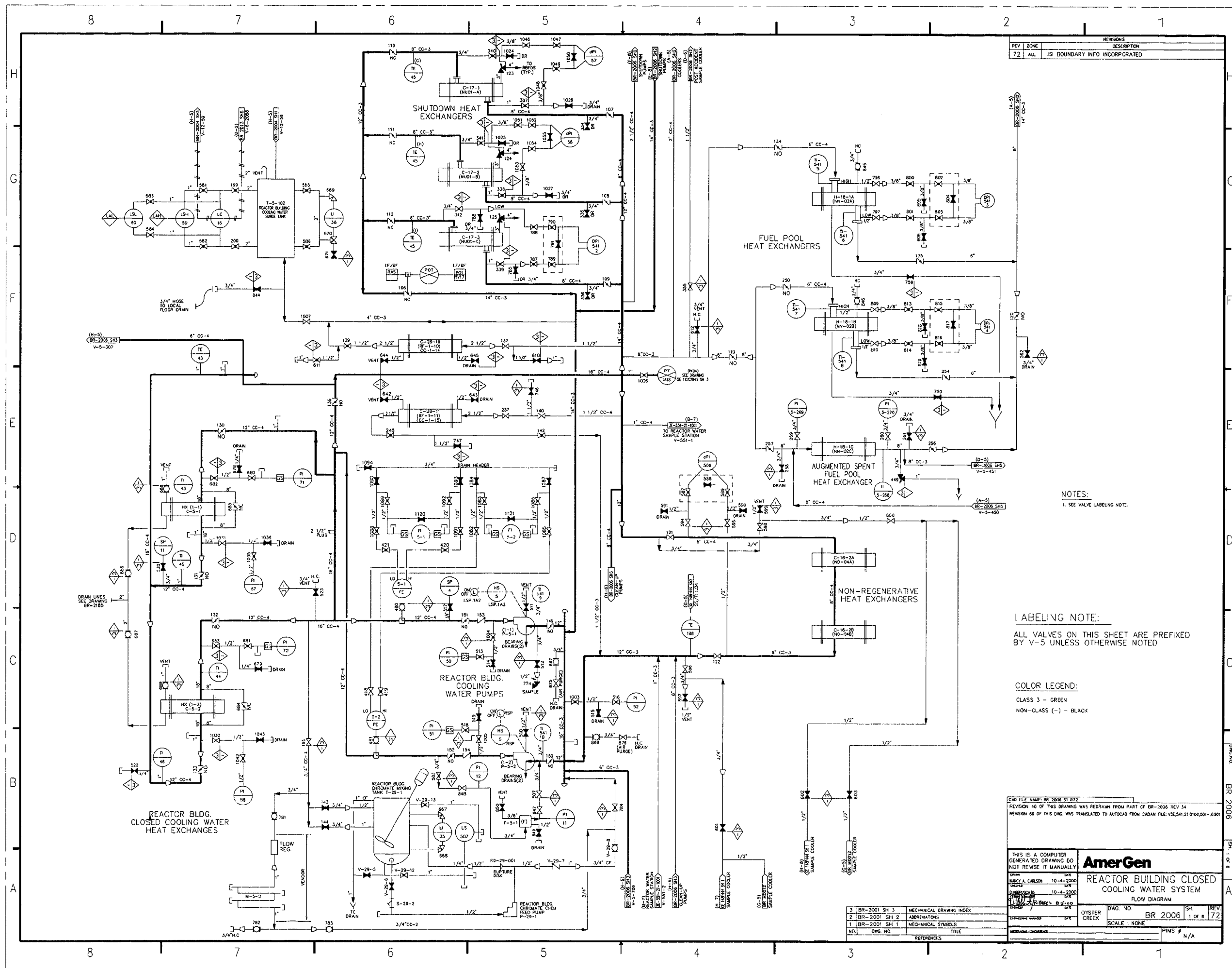
REVISION 37 OF THIS DRAWING WAS REDRAWN FROM PART OF BR 2005 REV.31

THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY

AmerGen
CIRCULATING WATER SYSTEM
 FLOW DIAGRAM

OYSTER CREEK
 Dwg. No. **BR 2005**
 SCALE: NONE

SHEET 6 OF 6
 REV 58
 PIMS # N/A



REV		REVISIONS	
NO.	DATE	DESCRIPTION	BY
72	ALL	ISI BOUNDARY INFO INCORPORATED	

NOTES:
1. SEE VALVE LABELING NOTE.

LABELING NOTE:
ALL VALVES ON THIS SHEET ARE PREFIXED BY V-5 UNLESS OTHERWISE NOTED

COLOR LEGEND:
CLASS 3 - GREEN
NON-CLASS (-) - BLACK

CAD FILE NAME: BR-2006 SH 3.DWG
 REVISION 40 OF THIS DRAWING WAS REDRAWN FROM PART OF BR-1006 REV 34
 REVISION 59 OF THIS DWG. WAS TRANSLATED TO AUTOCAD FROM CADMAN FILE V3E,SH1,21,0100,001-6901

THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY
 DRAWN: MARY A. CALSON
 CHECKED: J. CALSON
 DESIGNED: J. CALSON
 DATE: 10-4-2000

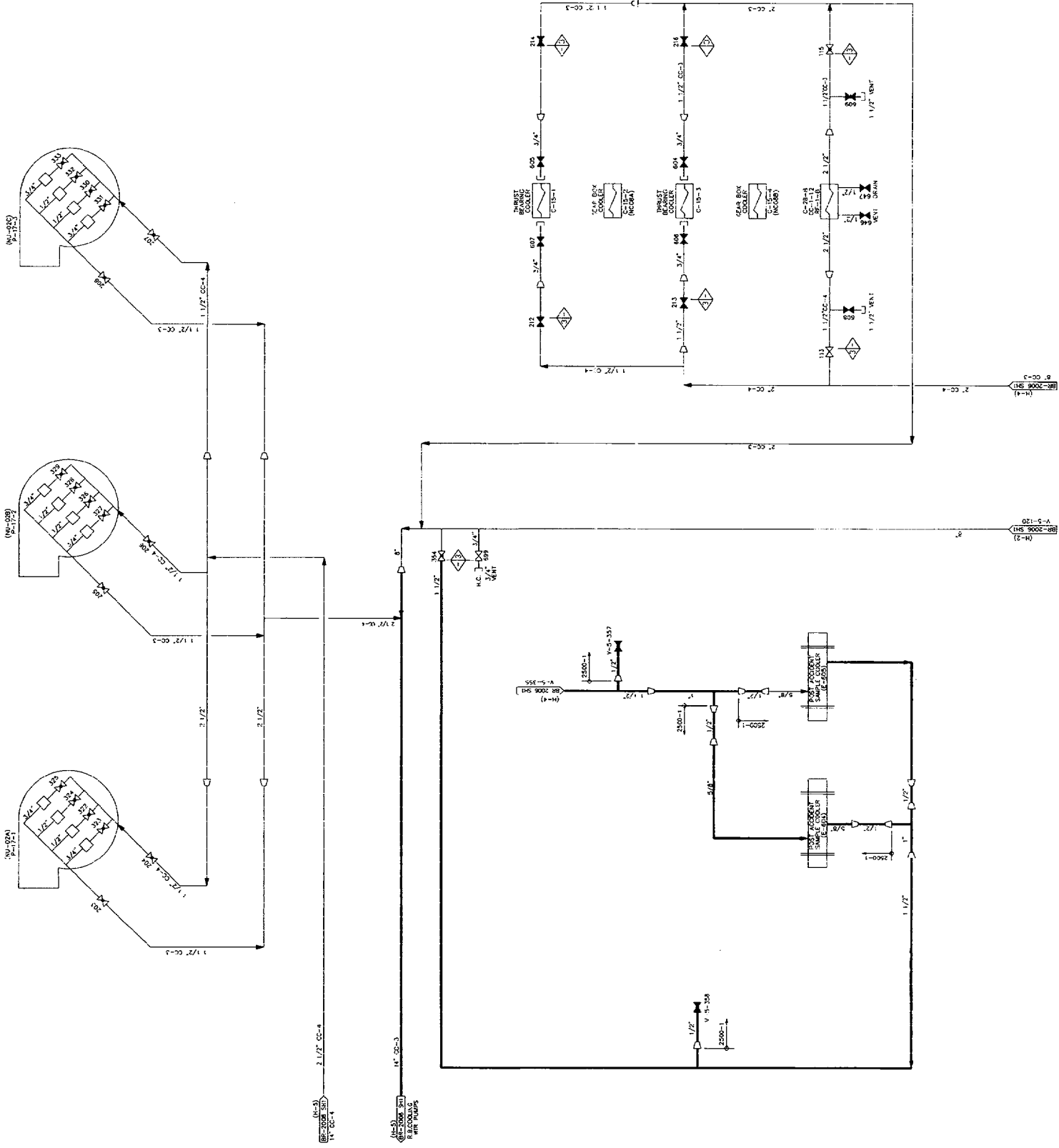
AmerGen
 REACTOR BUILDING CLOSED COOLING WATER SYSTEM
 FLOW DIAGRAM

DWG. NO. BR-2006 SH 3
 SCALE: NONE
 OYSTER CREEK
 PINS: N/A

NO.	DWG. NO.	REFERENCES	TITLE
3	BR-2001 SH 3	MECHANICAL DRAWING INDEX	
2	BR-2001 SH 2	ABBREVIATIONS	
1	BR-2001 SH 1	MECHANICAL SYMBOLS	

REV	ZONE	DESCRIPTION
44	ALL	IS: BOUNDARY INFO INCORPORATED

SHUTDOWN PUMPS



NOTES
1. SEE SHEET FOR NOTES AND REFERENCES.

COLOR LEGEND:
CLASS 3 - GREEN
NON-CLASS (-) - BLACK

LABELLING NOTE:
ALL VALVES ON THIS SHEET ARE PREFIXED
BY V-5 UNLESS OTHERWISE NOTED

CDU FILE NAME: BR 2006 52.R44
REVISION NO. 52
REVISION AS OF THIS DATE WAS TRANSLATED TO AUTOCAD FROM CADAM FILE: VLSH41.01010001-ASW

AmerGen	
REACTOR BUILDING CLOSED COOLING WATER SYSTEM	
FLOW DIAGRAM	
DATE	2/27/06
DESIGNED BY	AMERICA DESIGN
CHECKED BY	AMERICA DESIGN
APPROVED BY	AMERICA DESIGN
SCALE	AS SHOWN
REV	2 OF 6 44
BR	BR 2006
OWNER	OSYER CREEK
PROJECT	SCALE - NONE
REVISION	N/A

REV		ZONE	DESCRIPTION
63	D-7	ECD	C307478

LABELING NOTE:

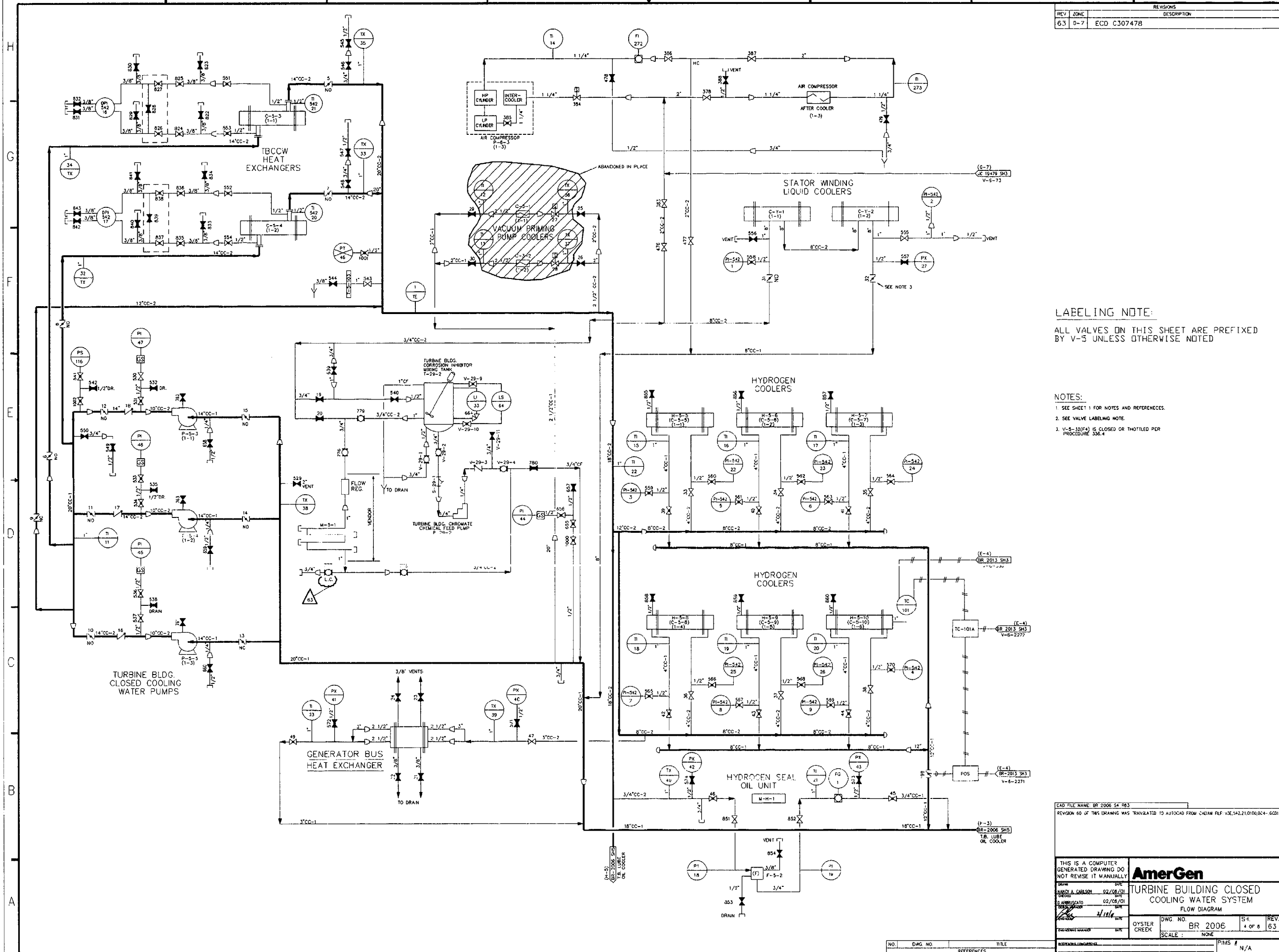
ALL VALVES ON THIS SHEET ARE PREFIXED BY V-5 UNLESS OTHERWISE NOTED

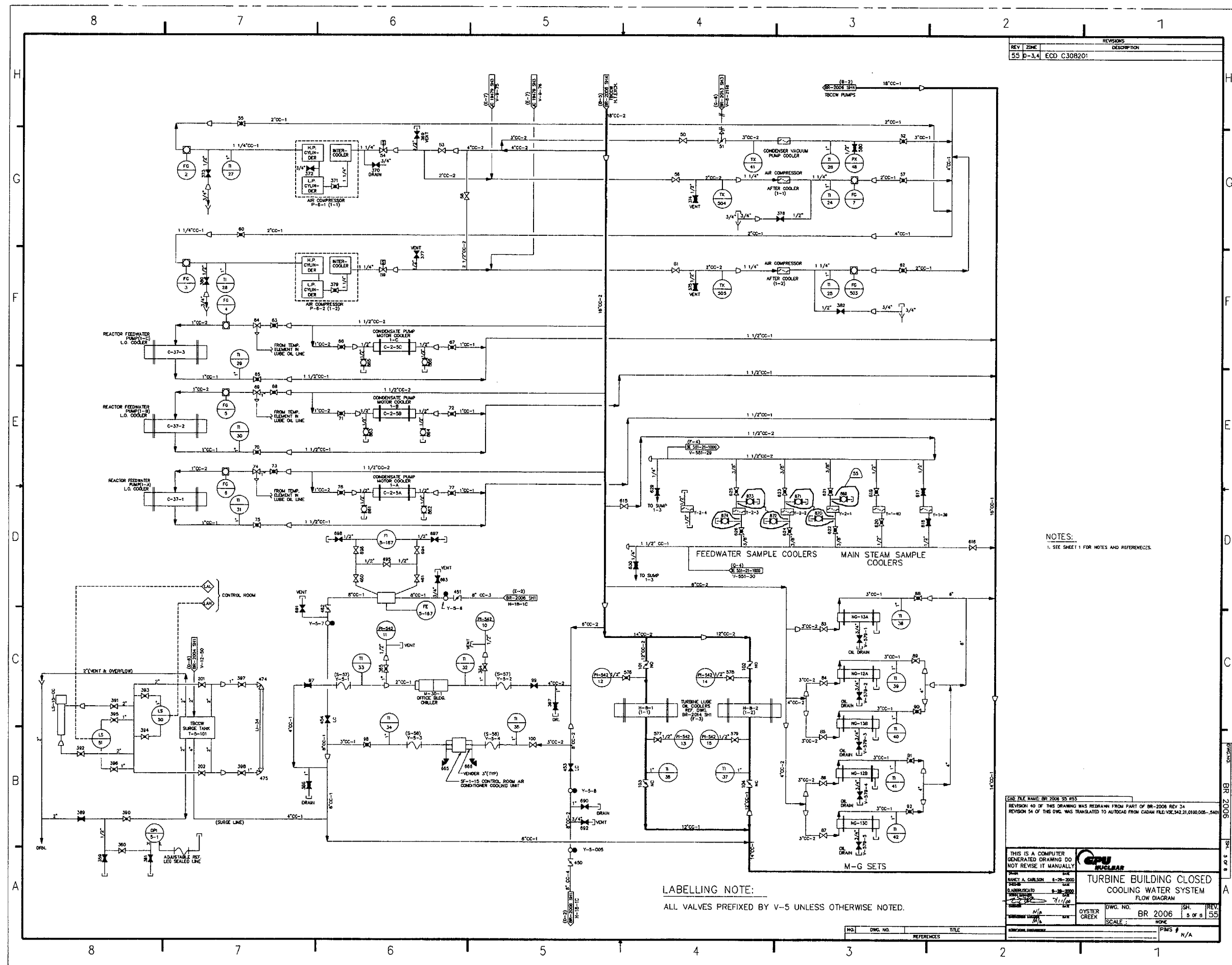
NOTES:

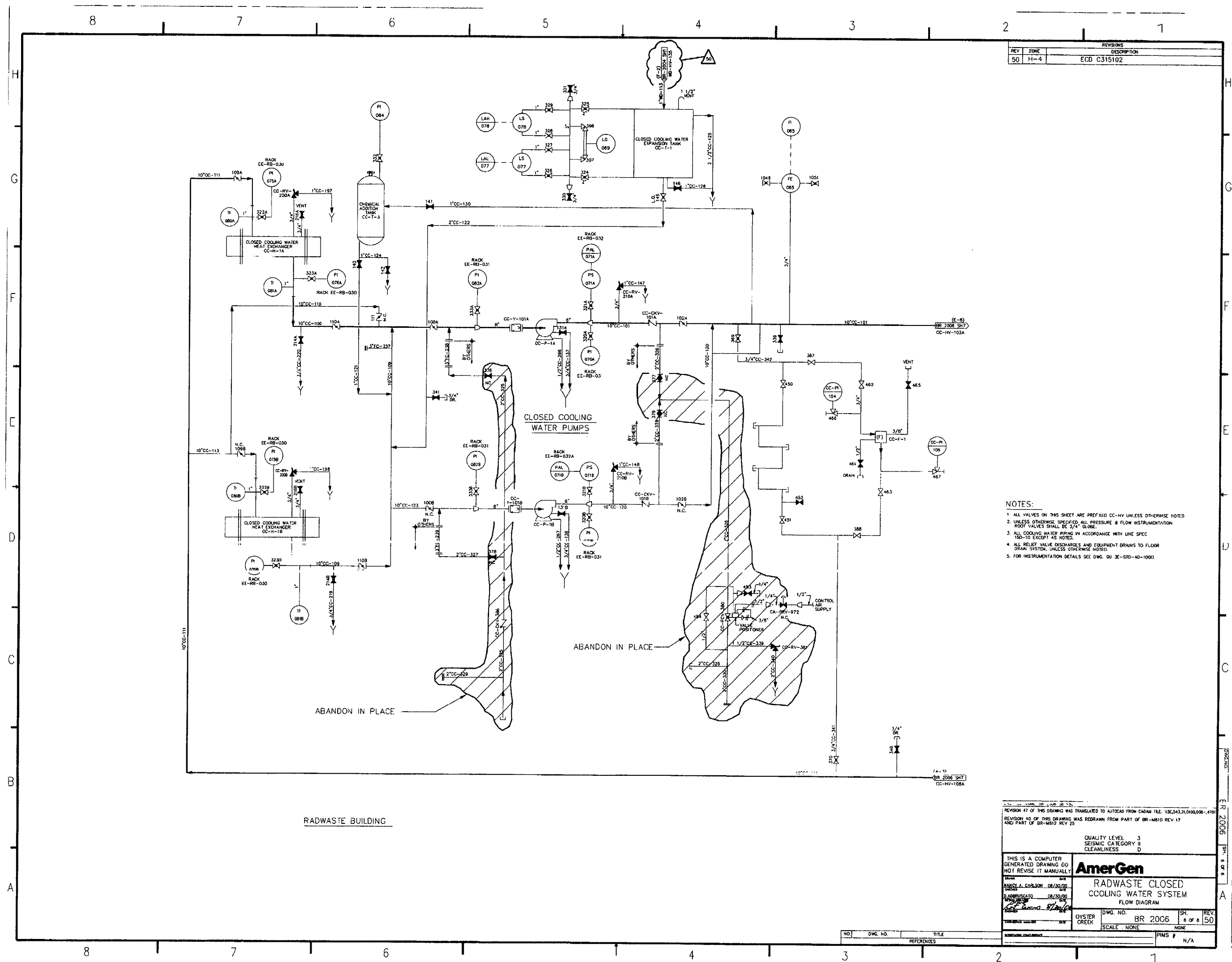
- SEE SHEET 1 FOR NOTES AND REFERENCES.
- SEE VALVE LABELING NOTE.
- V-5-32(F-4) IS CLOSED OR THROTTLED PER PROCEDURE 336.4

CAD FILE NAME: BR 2006 54.063
REVISION 60 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CADAM REF: V0E:342.21.01(0004-600)

THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY		AmerGen	
DATE	02/08/01	TURBINE BUILDING CLOSED COOLING WATER SYSTEM FLOW DIAGRAM	
DRAWN BY	02/08/01		
CHECKED BY	02/08/01	DWG. NO. BR 2006	
DESIGNED BY	02/08/01	SCALE: NONE	
APPROVED BY	02/08/01	OYSTER CREEK	
PROJECT NO.	BR 2006	SHEET 4 OF 8	
REVISED BY	02/08/01	REV 63	
REVISIONS	02/08/01	PIMS # N/A	



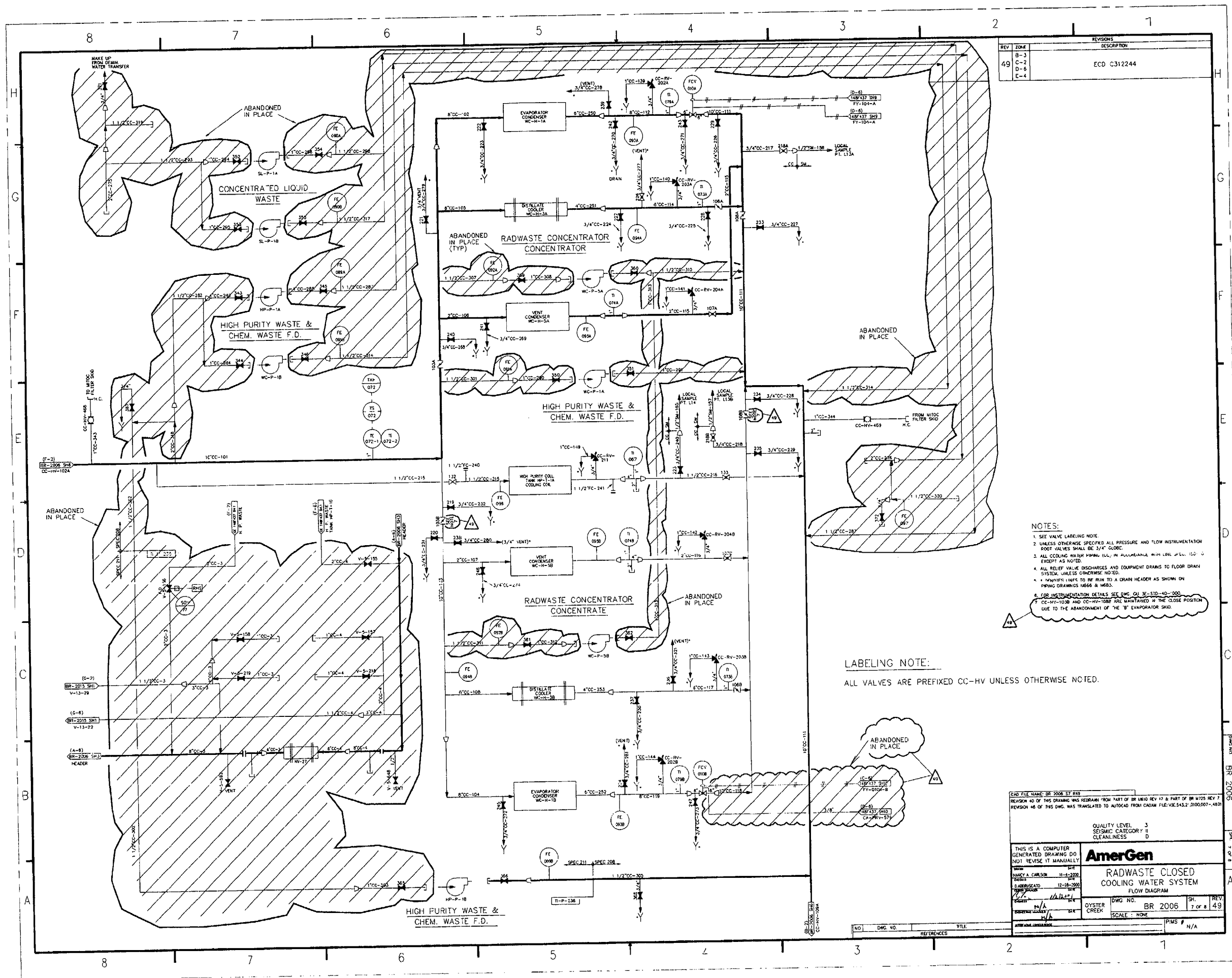




REVISIONS		
REV	ZONE	DESCRIPTION
50	H-4	ECD C315102

- NOTES:
1. ALL VALVES ON THIS SHEET ARE PREFIXED CC-HV UNLESS OTHERWISE NOTED.
 2. UNLESS OTHERWISE SPECIFIED, ALL PRESSURE & FLOW INSTRUMENTATION ROOT VALVES SHALL BE 3/4" GLOBE.
 3. ALL COOLING WATER PIPING IN ACCORDANCE WITH LINE SPEC 150-10 EXCEPT AS NOTED.
 4. ALL RELIEF VALVE DISCHARGES AND EQUIPMENT DRAINS TO FLOOR DRAIN SYSTEM, UNLESS OTHERWISE NOTED.
 5. FOR INSTRUMENTATION DETAILS SEE DWG. GU 3E-S10-40-1000.

REVISION 47 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM CADAM FILE V3E543.21.0100.006-4701	
REVISION 40 OF THIS DRAWING WAS REDRAWN FROM PART OF BR-M510 REV 17 AND PART OF BR-M512 REV 25	
QUALITY LEVEL 3	SEISMIC CATEGORY II
CLEANLINESS D	
THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY	
AmerGen	
RADWASTE CLOSED COOLING WATER SYSTEM FLOW DIAGRAM	
DWG. NO. BR 2006	SH. REV. 50
CHECKED	SCALE: NONE
PIMS # N/A	

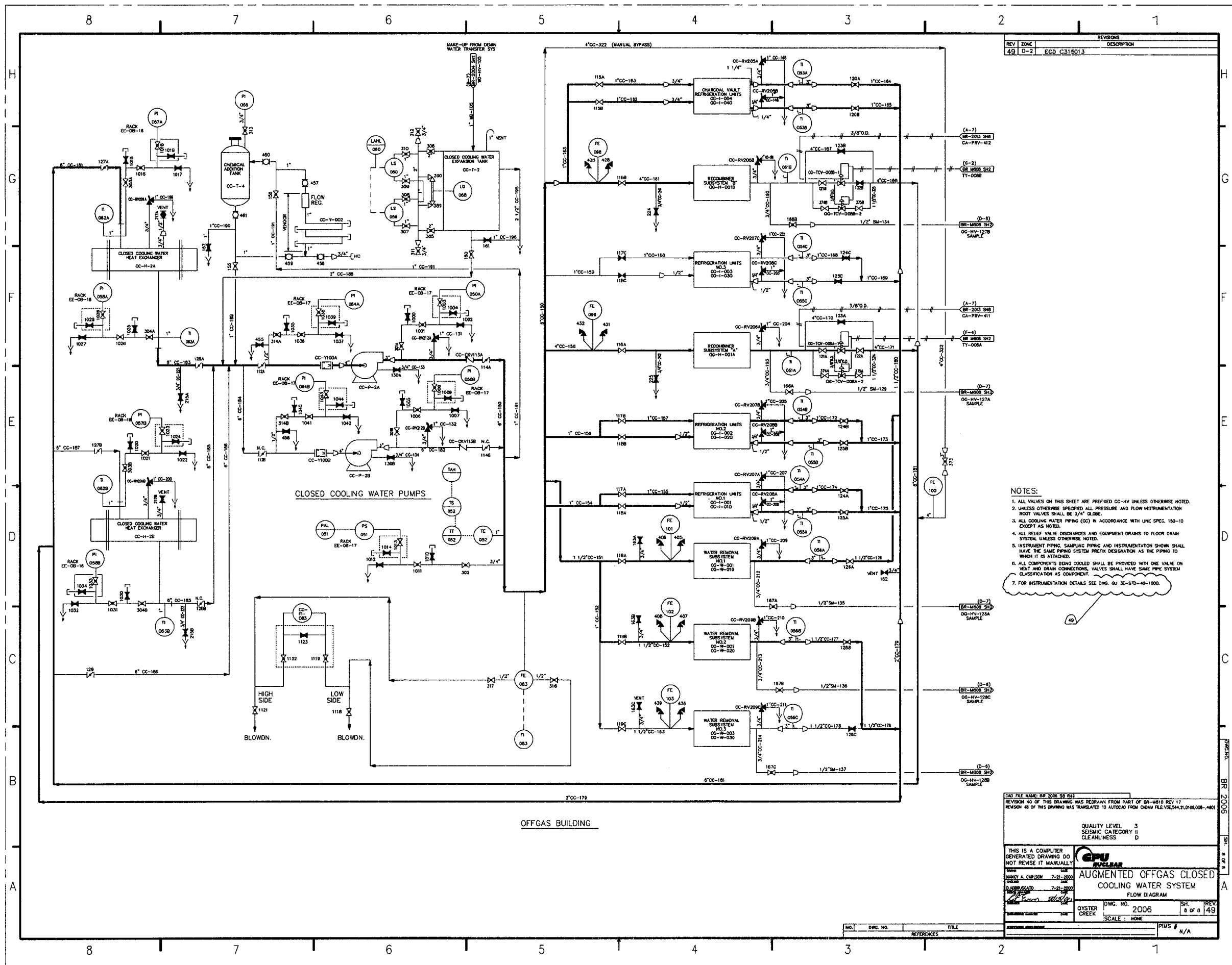


REV	ZONE	DESCRIPTION
49	B-3	ECD C312244
	C-2	
	D-6	
	E-4	

- NOTES:
1. SEE VALVE LABELING NOTE.
 2. UNLESS OTHERWISE SPECIFIED ALL PRESSURE AND FLOW INSTRUMENTATION ROOT VALVES SHALL BE 3/4" GLOBE.
 3. ALL COOLING WATER PIPING (C.W.) IN ACCORDANCE WITH LINE 100-100-100 EXCEPT AS NOTED.
 4. ALL RELIEF VALVE DISCHARGES AND EQUIPMENT DRAINS TO FLOOR DRAIN SYSTEM, UNLESS OTHERWISE NOTED.
 5. * DRAINAGE LINES TO BE RUN TO A DRAIN HEADER AS SHOWN ON Piping Drawings 100-100-100.
 6. FOR INSTRUMENTATION DETAILS SEE DWG. QJ 3E-STD-10-000.
 7. CC-HV-1038 AND CC-HV-1039 ARE MAINTAINED IN THE CLOSE POSITION DUE TO THE ABANDONMENT OF THE 'B' EVAPORATOR SKID.

LABELING NOTE:
ALL VALVES ARE PREFIXED CC-HV UNLESS OTHERWISE NOTED.

END FILE NAME: BR 2006 37 045	
REVISION 40 OF THIS DRAWING WAS REDESIGNED FROM PART OF BR 1810 REV 17 & PART OF BR 1812 REV 7	
REVISION 46 OF THIS DWG. WAS TRANSLATED TO AUTOCAD FROM CADAM FILE: VSE.543.2.2000.007-4601	
QUALITY LEVEL 3	SEISMIC CATEGORY II D
CLEANLINESS	
THIS IS A COMPUTER GENERATED DRAWING DO NOT RE-USE IT MANUALLY	
DESIGNED BY NANCY A. CARLSON	DATE 11-4-2006
CHECKED BY J. A. CARLSON	DATE 12-18-2006
APPROVED BY J. A. CARLSON	DATE 12-18-2006
SCALE N/A	SCALE N/A
DWG. NO. BR 2006	SH. 7 OF 8
CHECKED BY J. A. CARLSON	DATE 12-18-2006
SCALE N/A	SCALE N/A
PIMS N/A	PIMS N/A



- NOTES:
1. ALL VALVES ON THIS SHEET ARE PROVIDED CC-HV UNLESS OTHERWISE NOTED.
 2. UNLESS OTHERWISE SPECIFIED ALL PRESSURE AND FLOW INSTRUMENTATION ROOT VALVES SHALL BE 3/4" GLOBE.
 3. ALL COOLING WATER PIPING (CC) IN ACCORDANCE WITH LINE SPEC. 150-10 EXCEPT AS NOTED.
 4. ALL RELIEF VALVE DISCHARGES AND COMPONENT DRAINS TO FLOOR DRAIN SYSTEM, UNLESS OTHERWISE NOTED.
 5. INSTRUMENT PIPING, SAMPLING PIPING AND INSTRUMENTATION SHOWN SHALL HAVE THE SAME PIPING SYSTEM PREFIX DESIGNATION AS THE PIPING TO WHICH IT IS ATTACHED.
 6. ALL COMPONENTS BEING COOLED SHALL BE PROVIDED WITH ONE VALVE ON VENT AND DRAIN CONNECTIONS. VALVES SHALL HAVE SAME PIPE SYSTEM CLASSIFICATION AS COMPONENT.
 7. FOR INSTRUMENTATION DETAILS SEE CWO. GU 3E-STD-40-1000.

QUALITY LEVEL 3
SEISMIC CATEGORY II
CLEANLINESS D

THIS IS A COMPUTER GENERATED DRAWING DO NOT REVISE IT MANUALLY

DATE: 7-21-2006
DRAWN BY: MARY A. CARLSON
CHECKED BY: J. J. CARLSON
DATE: 7-21-2006

AWGMENTED OFFGAS CLOSED COOLING WATER SYSTEM
FLOW DIAGRAM

DWG. NO. 2006
SCALE: NONE

REV. 49
REV. 48
REV. 47
REV. 46
REV. 45
REV. 44
REV. 43
REV. 42
REV. 41
REV. 40
REV. 39
REV. 38
REV. 37
REV. 36
REV. 35
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REV. 32
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REV. 1

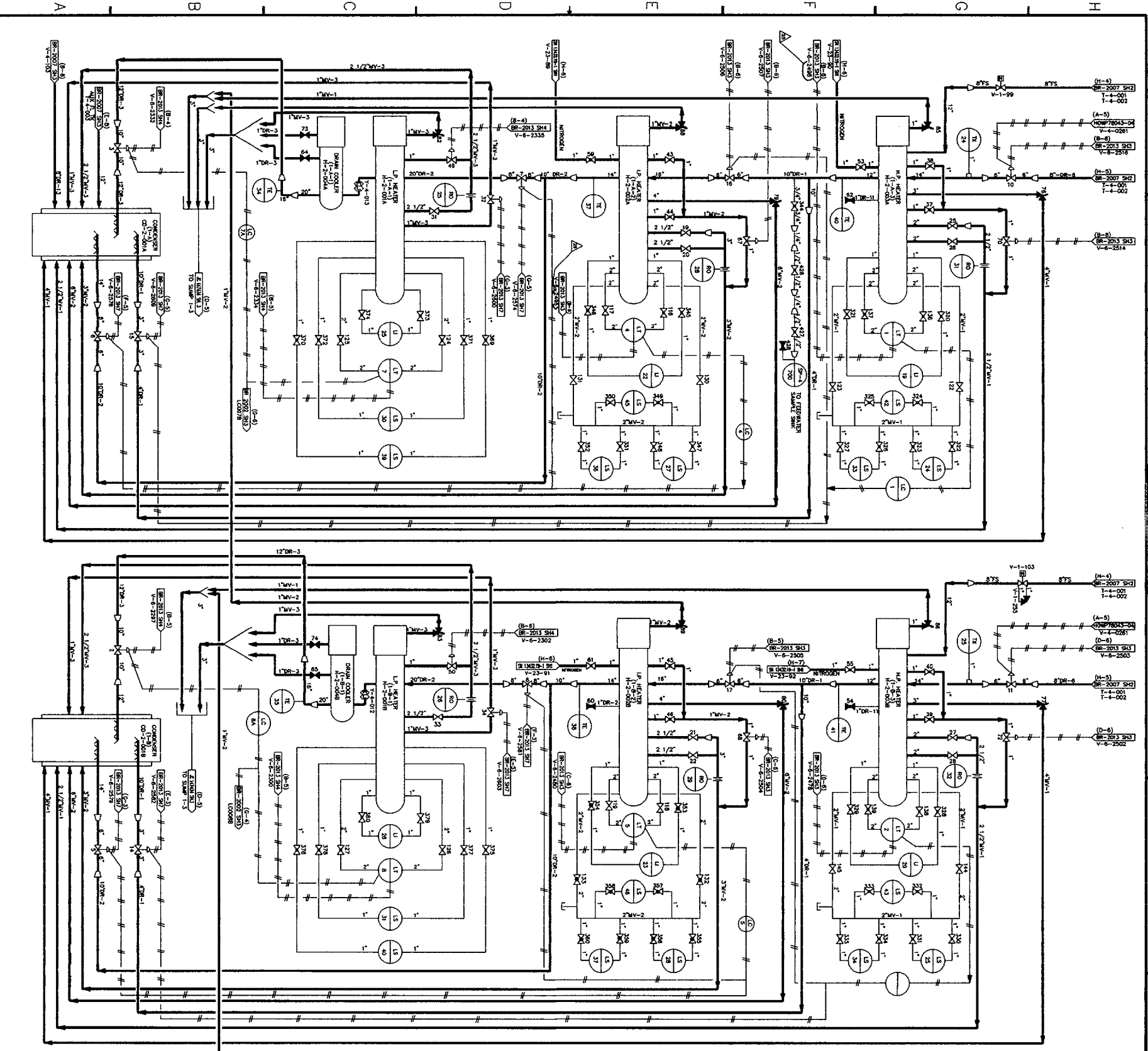
REV	DATE	DESCRIPTION
25	5-7	ECN0314558

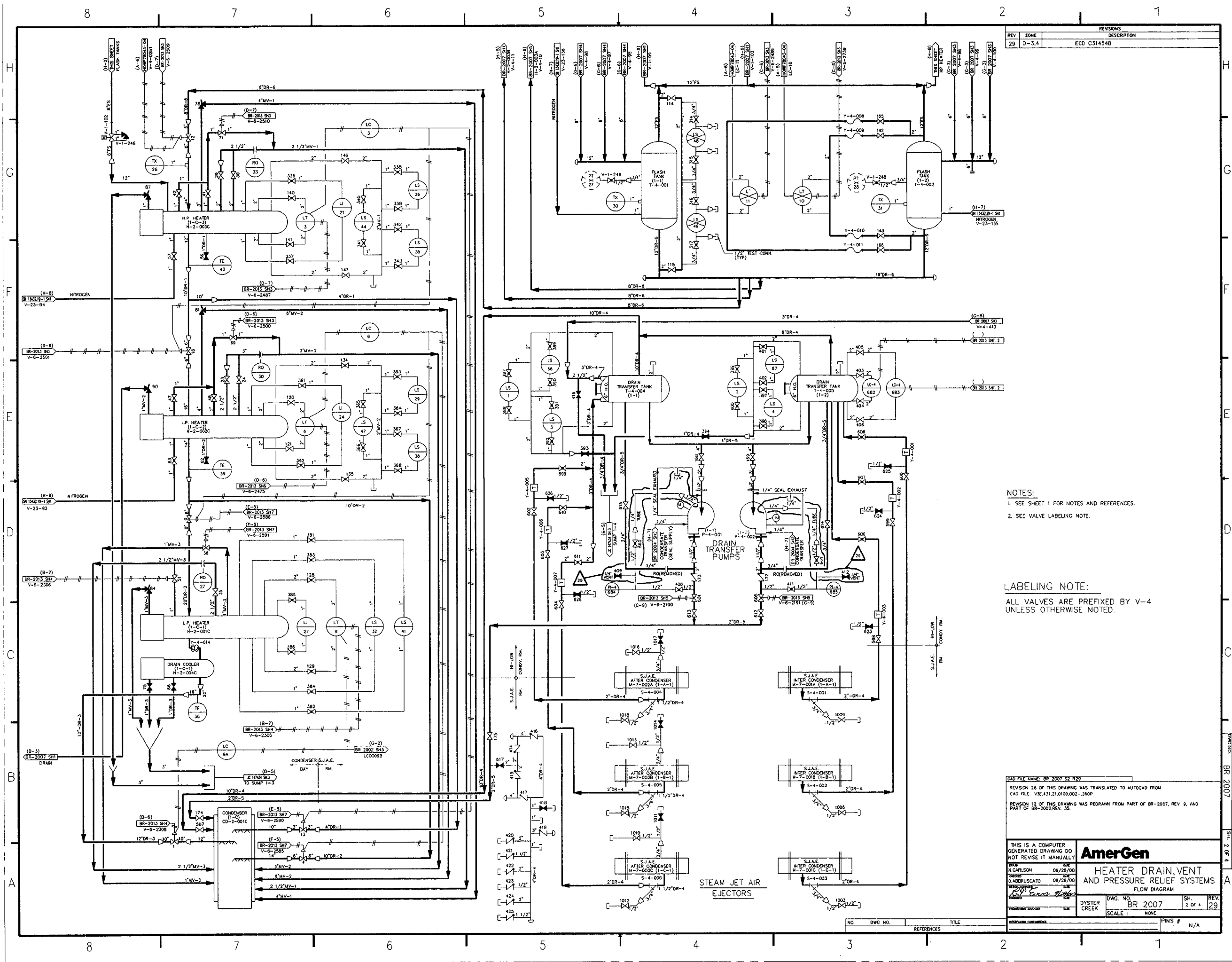
- NOTES:
1. VALVES ARE PROVIDED BY V-4 UNLESS OTHERWISE NOTED.
 2. ALL 6" VALVES FROM SPEAKER DRAIN TANKS TO ALL FLASH TANKS WILL HAVE 1/2" NPT CONNECTIONS.
 3. FOR ROCKET PROTECTION DIAGRAM SEE DWG. 713037
 4. FOR ROCKET PROTECTION DIAGRAM SEE DWG. 713038
 5. FOR ROCKET PROTECTION DIAGRAM SEE DWG. 713039
 6. VALVES V-4-100 AND 100 OPEN ON HIGH ALARM.
 7. FOR OUTLINE DIAGRAMS OF CONTROL VALVE SEE DWG. 1030348
 8. SPRING AND PRESSURE CONTROL VALVE SEE DWG. 1030348
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 100. SPRING AND PRESSURE CONTROL VALVE SEE DWG. 1030348

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PERFORM 21 OF THIS DRAWING WAS TRANSFERRED TO AUTOCAD FROM CADKEY RELEASE 2.0 (PROLOG-2000) PART OF BR 2007, REV. 5, AND PART OF BR 2007, REV. 5.

NO.	DATE	DESCRIPTION	BY	CHKD	APP'D	REV.
1	BR-2007	HEATER DRAIN, VENT AND PRESSURE RELIEF SYSTEMS	BR-2007	BR-2007	BR-2007	1 OF 4
2	BR-2007	HEATER DRAIN, VENT AND PRESSURE RELIEF SYSTEMS	BR-2007	BR-2007	BR-2007	2 OF 4
3	BR-2007	HEATER DRAIN, VENT AND PRESSURE RELIEF SYSTEMS	BR-2007	BR-2007	BR-2007	3 OF 4
4	BR-2007	HEATER DRAIN, VENT AND PRESSURE RELIEF SYSTEMS	BR-2007	BR-2007	BR-2007	4 OF 4





REVISIONS		DESCRIPTION
REV	ZONE	
29	D-3,4	ECC C314548

- NOTES:
- SEE SHEET 1 FOR NOTES AND REFERENCES.
 - SEE VALVE LABELING NOTE.

LABELING NOTE:

ALL VALVES ARE PREFIXED BY V-4
UNLESS OTHERWISE NOTED.

CAD FILE NAME: BR 2007 S2 R29

REVISION 26 OF THIS DRAWING WAS TRANSLATED TO AUTOCAD FROM
CAD FILE: V3E.431.21.0106.002--260P

REVISION 12 OF THIS DRAWING WAS REDRAWN FROM PART OF BR-2007, REV. 9, AND
PART OF BR-2002, REV. 35.

THIS IS A COMPUTER
GENERATED DRAWING DO
NOT REVISE IT MANUALLY

AmerGen

HEATER DRAIN, VENT
AND PRESSURE RELIEF SYSTEMS
FLOW DIAGRAM

DWG. NO. **BR 2007** SH. **2 OF 4** REV. **29**

SCALE: NONE

PIMS: # N/A

NO.	DWG. NO.	REFERENCE	TITLE

DWG. NO. BR 2007 SH. 2 OF 4

REVISIONS	
REV	DESCRIPTION
40	BR-2008
39	ECO C400404

REV	ZONE	DESCRIPTION
40	BR-2008	ECO C400404

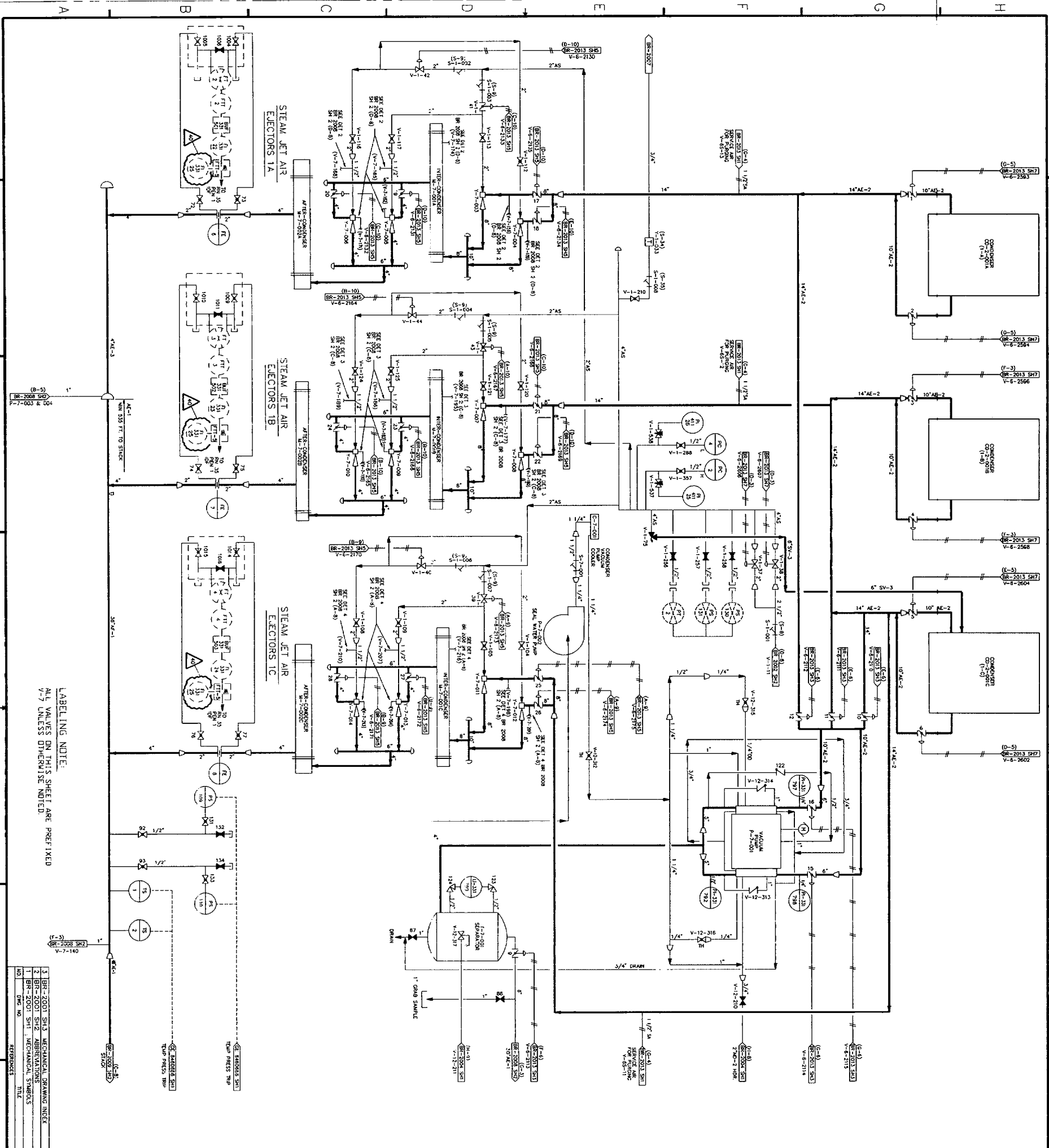
NOTES:
1. SEE VALVE LABELING NOTE

THIS IS A COMPUTER GENERATED DRAWING DO NOT REVERSE IT MANUALLY

AmerGen

AIR EXTRACTION AND OFF-GAS SYSTEM FLOW DIAGRAM

DESIGNER	12/22/08	DATE	12/22/08
CHECKED	12/22/08	DATE	12/22/08
APPROVED	12/22/08	DATE	12/22/08
OWNER	BR 2008	PROJECT NO.	BR 2008
CREATOR	1 OF 2	SCALE	1" = 2' 40"
DATE	12/22/08	SCALE	1" = 2' 40"
PROJECT NO.	BR 2008	SCALE	1" = 2' 40"
DATE	12/22/08	SCALE	1" = 2' 40"

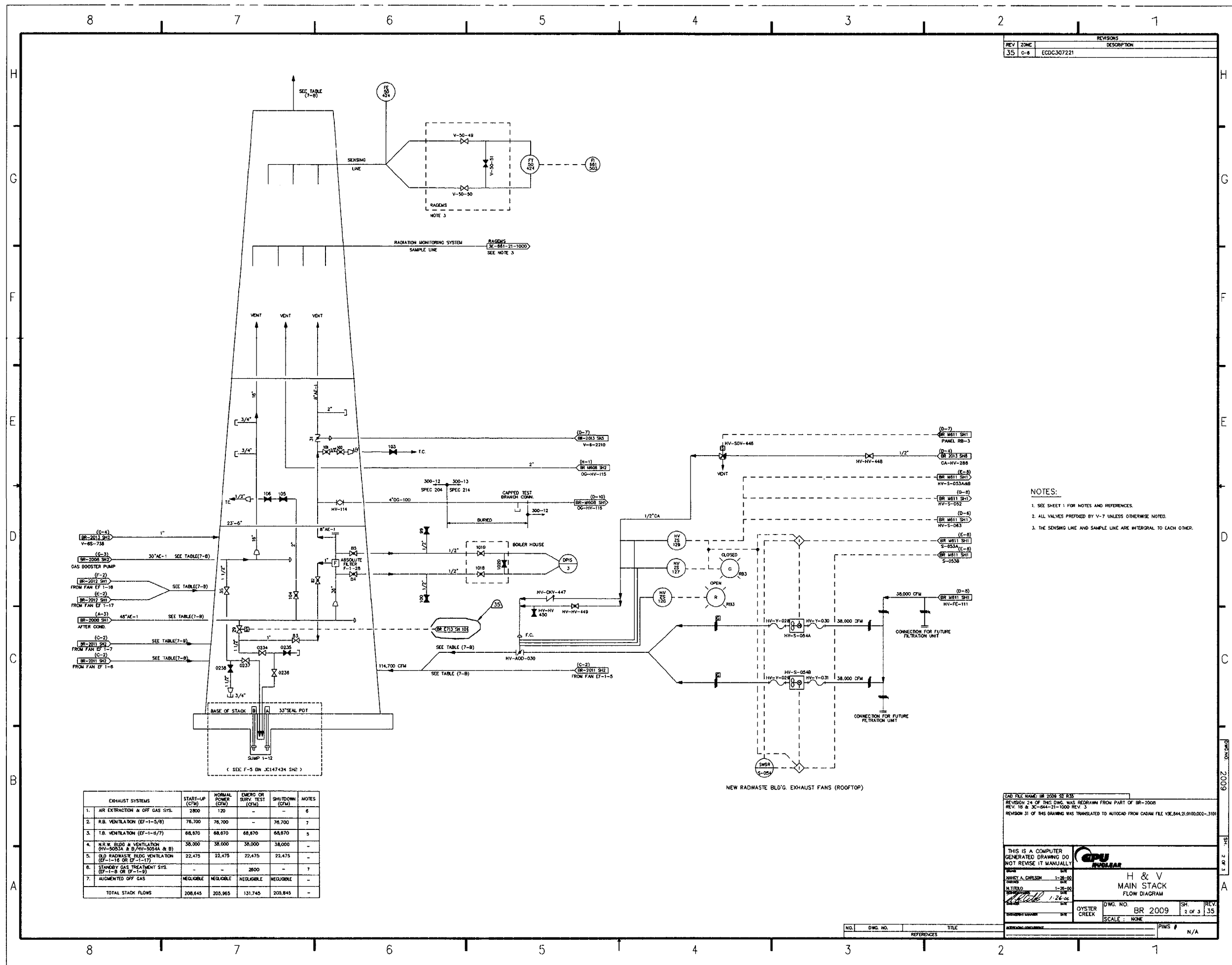


LABLING NOTE:
ALL VALVES ON THIS SHEET ARE PREFIXED
V-7 UNLESS OTHERWISE NOTED

NO	REV	DESCRIPTION	DATE
1	BR-2008 SH2	MECHANICAL DRAWING INDEX	12/22/08
2	BR-2008 SH1	MECHANICAL DRAWING INDEX	12/22/08
3	BR-2008 SH1	MECHANICAL DRAWING INDEX	12/22/08

7

BR 2008	Sh	2 of 2	A	EV	6
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REV		REVISIONS	
NO.	DATE	DESCRIPTION	
35	0-8	ECDC307221	

- NOTES:
- SEE SHEET 1 FOR NOTES AND REFERENCES.
 - ALL VALVES PREFIXED BY V-7 UNLESS OTHERWISE NOTED.
 - THE SENSING LINE AND SAMPLE LINE ARE INTERGRAL TO EACH OTHER.

EXHAUST SYSTEMS	START-UP (CFM)	NORMAL POWER (CFM)	EMERG. OR SUPPLY TEST (CFM)	SHUTDOWN (CFM)	NOTES
1. AIR EXTRACTION & OFF GAS SYS.	2800	120	-	-	6
2. R.B. VENTILATION (EF-1-5/6)	76,700	76,700	-	76,700	7
3. T.B. VENTILATION (EF-1-5/7)	68,870	68,870	68,870	68,870	5
4. R.B. BLDG. & VENTILATION (HV-5055A & B/HV-5054A & B)	38,000	38,000	38,000	38,000	-
5. OLD RADWASTE BLDG. VENTILATION (EF-1-16 OR EF-1-17)	22,475	22,475	22,475	22,475	-
6. STANDBY GAS TREATMENT SYS. (EF-1-8 OR EF-1-9)	-	-	2600	-	7
7. AUGMENTED OFF GAS	NEGLECTABLE	NEGLECTABLE	NEGLECTABLE	NEGLECTABLE	-
TOTAL STACK FLOWS	208,645	205,965	131,745	205,845	-

THIS IS A COMPUTER GENERATED DRAWING. DO NOT REVISE IT MANUALLY.

GPU

H & V MAIN STACK FLOW DIAGRAM

DATE: 1-26-00
BY: N. TITIKO
CHECKED: 1-26-00
SCALE: NONE

DWG. NO. BR 2009
OYSTER CREEK
SCALE: NONE

REV. 35
2 OF 3

PINS # N/A

REV.	DATE	DESCRIPTION
27	10/10/00	ADMINISTRATIVE CHANGE PER CHIT 187006

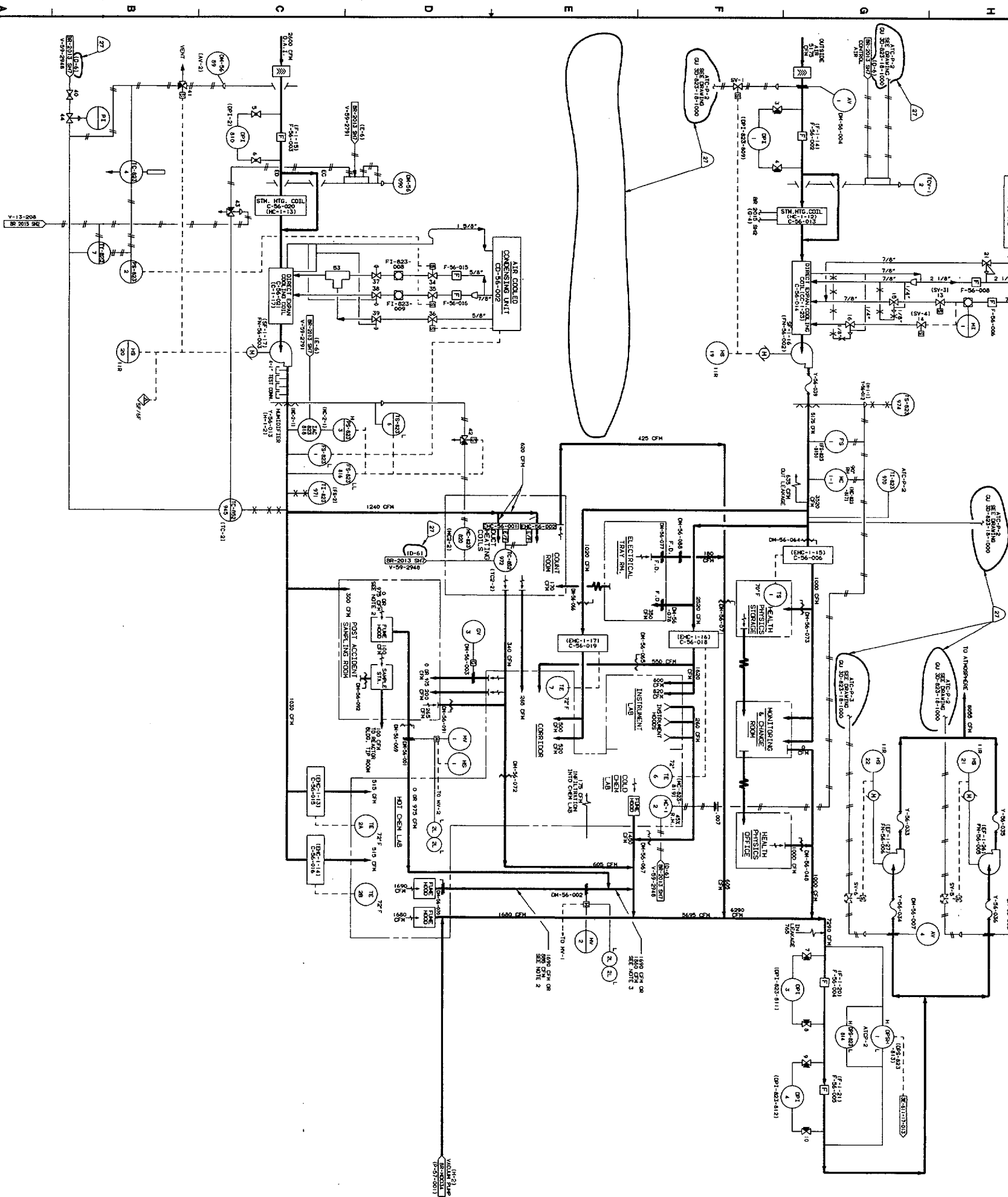
NOTES:

1. VALUES ARE PRESENTED V-SH-0005 OTHERWISE NOTED.
2. FLOW TO & FROM SAMPLE STATION WILL BE APPROX. 40 GPM UNLESS OTHERWISE NOTED.
3. PASS FUME HOOD IS NORMALLY OPERATED WITH EXHAUST FLOW RATE OF 100 CFM. WHEN HOOD IS PARTIALLY CLOSED, FUME HOOD SHOULD NOT BE OPERATED. FUME HOOD SHOULD NOT BE OPERATED DUE TO PASS FUME HOOD OPERATION.
4. 100 CFM IS COMBINED FLOW OF 70 CFM FROM HOT CHEM. LAB. FUME HOOD WHENEVER PASS FUME HOOD IS PUT INTO OPERATION.

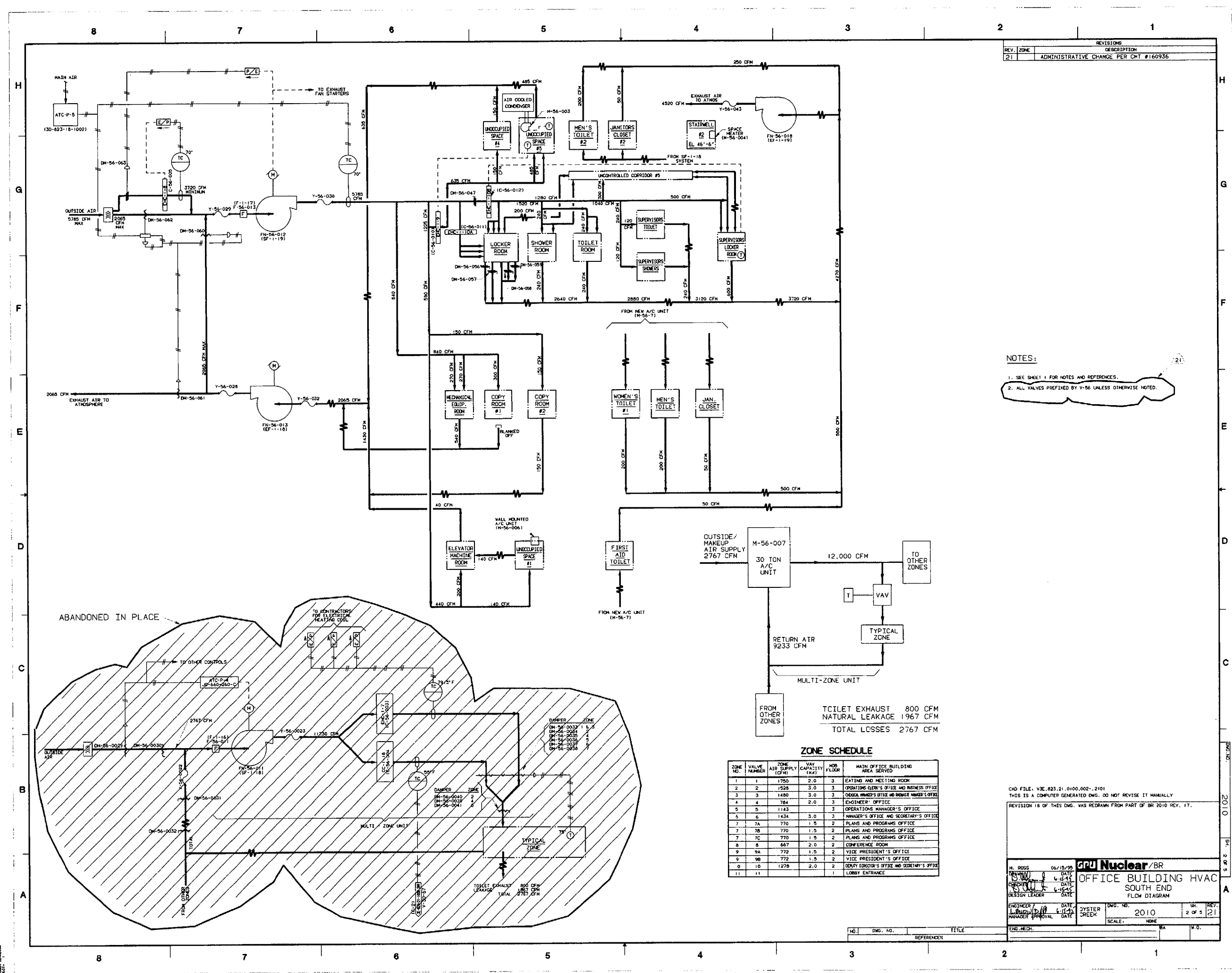
CAD FILE: V-SH-0005-001-2701
 THIS IS A COMPUTER GENERATED DWG. DO NOT REUSE IT MANUALLY.
 REVISION 16 OF THIS DWG. WAS DRAWN FROM PART OF 2010 REV. 17

GRI Nuclear/BR
 OFFICE BUILDING
 CHEM. LABS

NO.	DATE	DESCRIPTION	BY	CHKD.
1	10/10/00	REVISION 16	10/10/00	10/10/00
2	10/10/00	REVISION 15	10/10/00	10/10/00
3	10/10/00	REVISION 14	10/10/00	10/10/00
4	10/10/00	REVISION 13	10/10/00	10/10/00
5	10/10/00	REVISION 12	10/10/00	10/10/00
6	10/10/00	REVISION 11	10/10/00	10/10/00
7	10/10/00	REVISION 10	10/10/00	10/10/00
8	10/10/00	REVISION 9	10/10/00	10/10/00
9	10/10/00	REVISION 8	10/10/00	10/10/00
10	10/10/00	REVISION 7	10/10/00	10/10/00
11	10/10/00	REVISION 6	10/10/00	10/10/00
12	10/10/00	REVISION 5	10/10/00	10/10/00
13	10/10/00	REVISION 4	10/10/00	10/10/00
14	10/10/00	REVISION 3	10/10/00	10/10/00
15	10/10/00	REVISION 2	10/10/00	10/10/00
16	10/10/00	REVISION 1	10/10/00	10/10/00



NO.	DATE	DESCRIPTION	BY	CHKD.
1	10/10/00	REVISION 16	10/10/00	10/10/00
2	10/10/00	REVISION 15	10/10/00	10/10/00
3	10/10/00	REVISION 14	10/10/00	10/10/00
4	10/10/00	REVISION 13	10/10/00	10/10/00
5	10/10/00	REVISION 12	10/10/00	10/10/00
6	10/10/00	REVISION 11	10/10/00	10/10/00
7	10/10/00	REVISION 10	10/10/00	10/10/00
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11	10/10/00	REVISION 6	10/10/00	10/10/00
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13	10/10/00	REVISION 4	10/10/00	10/10/00
14	10/10/00	REVISION 3	10/10/00	10/10/00
15	10/10/00	REVISION 2	10/10/00	10/10/00
16	10/10/00	REVISION 1	10/10/00	10/10/00



REVISIONS	
REV.	DESCRIPTION
21	ADMINISTRATIVE CHANGE PER CMT #160936

NOTES:

1. SEE SHEET 1 FOR NOTES AND REFERENCES.

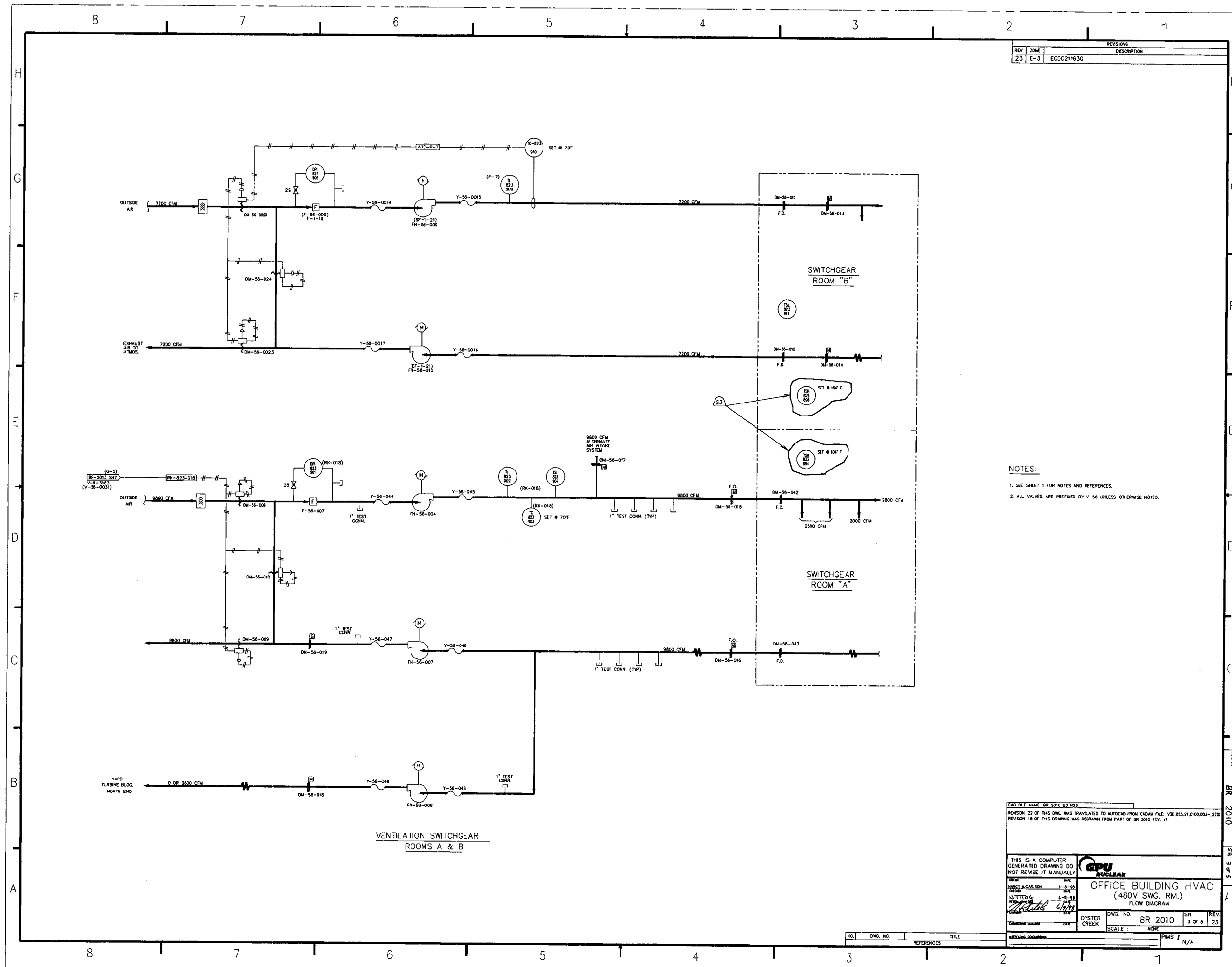
2. ALL VALVES PREFIXED BY Y-56 UNLESS OTHERWISE NOTED.

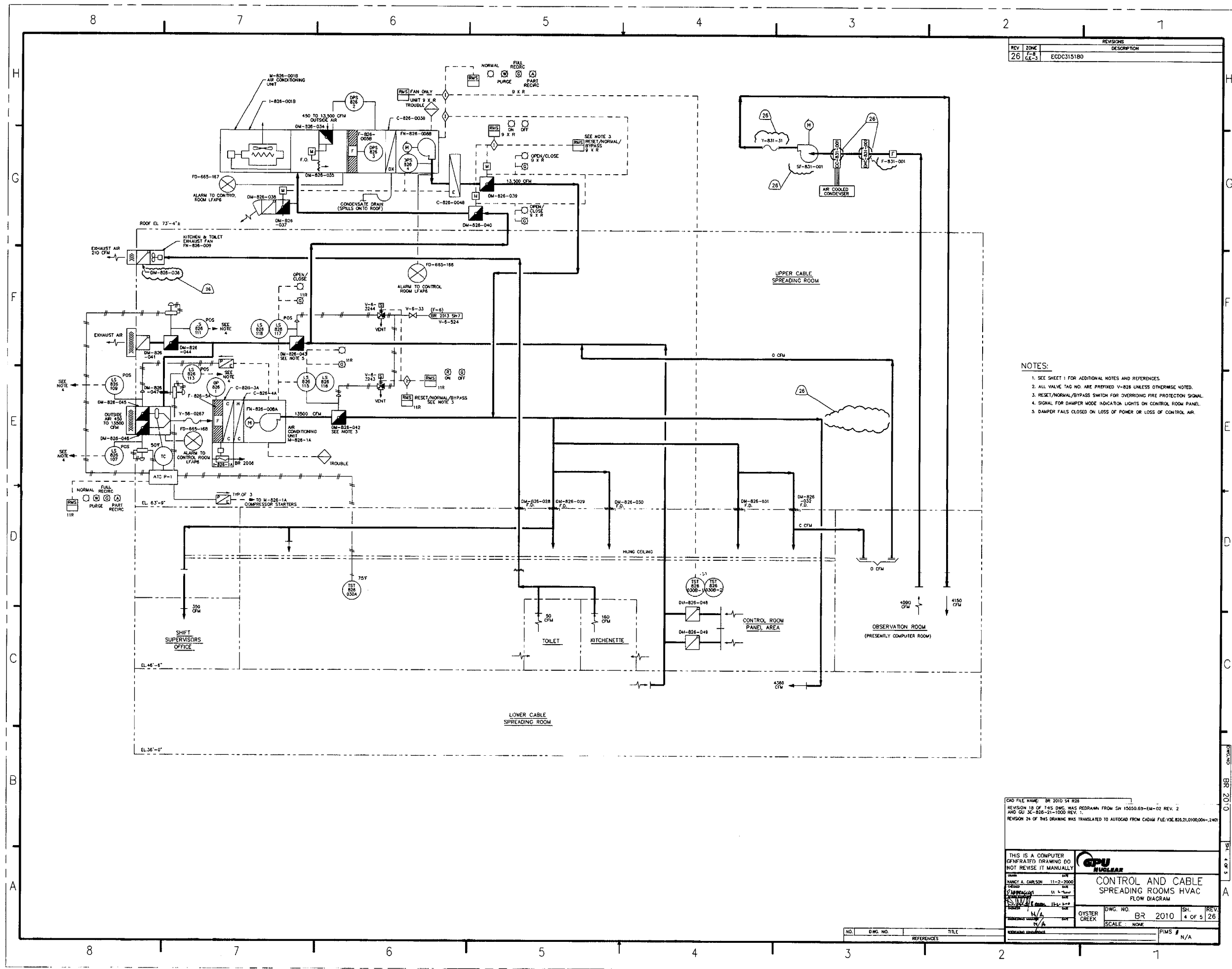
ZONE SCHEDULE					
ZONE NO.	VALVE NUMBER	ZONE AIR SUPPLY CAPACITY (CFM)	VAV FLOOR	NOB FLOOR	MAIN OFFICE BUILDING AREA SERVED
1	1	1750	2.0	3	EATING AND MEETING ROOM
2	2	1528	3.0	3	OPERATIONS CLERK'S OFFICE AND BUSINESS OFFICE
3	3	1480	3.0	3	LEGAL COUNSEL'S OFFICE AND BUSINESS OFFICE
4	4	784	2.0	3	ENGINEER'S OFFICE
5	5	1143	3.0	3	OPERATIONS MANAGER'S OFFICE
6	6	1434	3.0	3	MANAGER'S OFFICE AND SECRETARY'S OFFICE
7	7A	770	1.5	2	PLANS AND PROGRAMS OFFICE
7	7B	770	1.5	2	PLANS AND PROGRAMS OFFICE
7	7C	770	1.5	2	PLANS AND PROGRAMS OFFICE
8	8	667	2.0	2	CONFERENCE ROOM
9	9A	772	1.5	2	VICE PRESIDENT'S OFFICE
9	9B	772	1.5	2	VICE PRESIDENT'S OFFICE
10	10	1278	2.0	2	DEPUTY DIRECTOR'S OFFICE AND SECRETARY'S OFFICE
11	11			1	LOBBY ENTRANCE

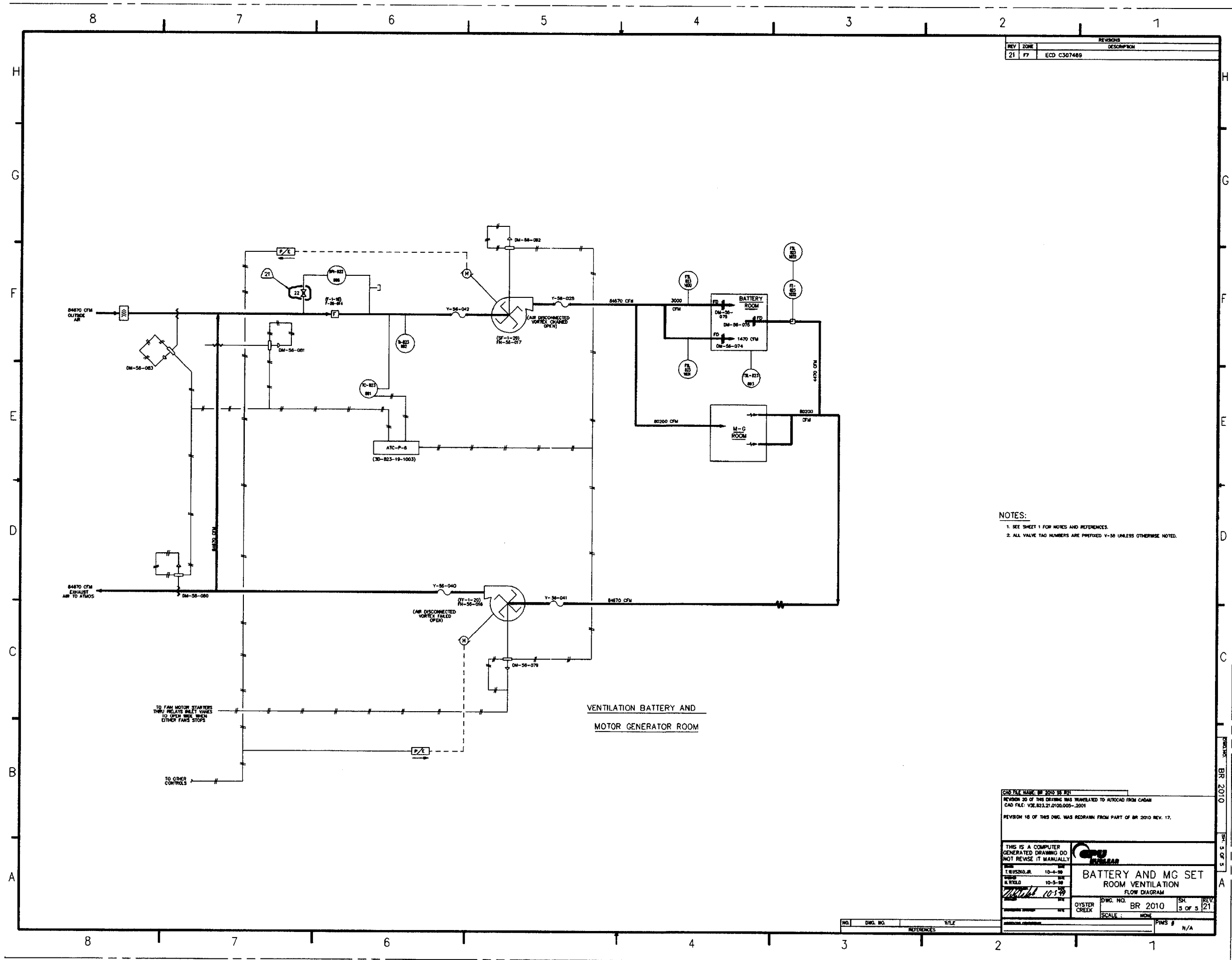
CAD FILE: V3E.823.21.0100.002-.2101
THIS IS A COMPUTER GENERATED DWG. DO NOT REVISE IT MANUALLY
REVISION 18 OF THIS DWG. WAS REDRAWN FROM PART OF DR 2010 REV. 17.

H. ROSS		06/15/95		CPU Nuclear/BR	
DESIGNER		DATE		OFFICE BUILDING HVAC	
CHECKED		DATE		SOUTH END	
DESIGN LEADER		DATE		FLOW DIAGRAM	
ENGINEER		DATE		DWG. NO.	
MANAGER		DATE		2010	
SCALE: NONE		BA		REV. 21	

NO.	DWG. NO.	TITLE	REFERENCES







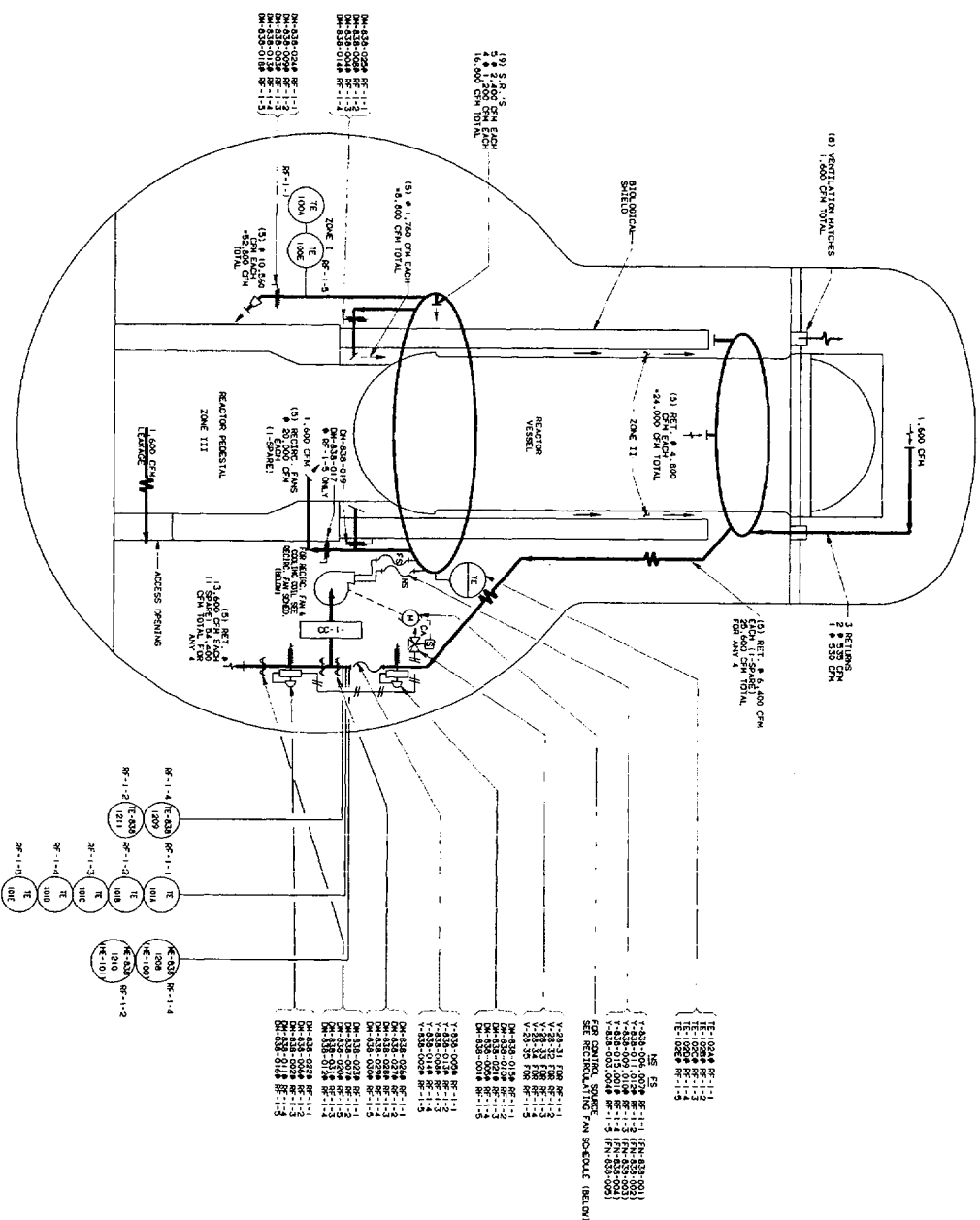
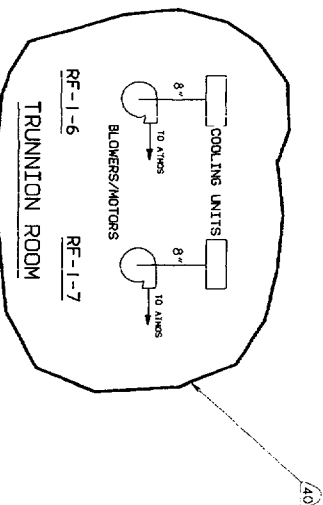
REV	ZONE	DESCRIPTION
21	F7	ECD C307489

THIS IS A COMPUTER GENERATED DRAWING. DO NOT REUSE IT MANUALLY. DATE: 10-5-99 DRAWN BY: T. KUSKO, JR. CHECKED BY: H. TROLO APPROVED BY: [Signature]		BATTERY AND MG SET ROOM VENTILATION FLOW DIAGRAM DWG. NO. BR 2010 OYSTER CREEK SCALE: NONE PAGES: 5 OF 5 REV: 21
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[illegible][illegible]

FOR PIPING DWG SEE CU-3E-838-21-100

1. THE CHILLED WATER COOLING SYSTEM PROVIDES A 10% OF 440 GPM OF CHILLED WATER TO 1 MIN. OF THREE AND A HALF TONS OF AIR CONDITIONING.
2. THE 440 GPM OF CHILLED WATER WILL BE PROPORTIONALLY DISTRIBUTED AMONGST THE OPERATIONAL COOLERS.
3. THE COOLER DATA REFLECTS THE MAXIMUM DESIGN CONDITIONS AND CAPACITY OF EACH COOLER.
4. WHEN OPTIMEL REACTORS RELEASERS OR THE FOLLOWING CONDITIONS EXIST:
 - AIR FLOW
 - AIR IN/OUT
 - AIR FLOW
 - CAPACITY
 - 553,000 BU/HR



NOTES:

1. ALL VALVES ARE PREFIXED V-26 UNLESS OTHERWISE NOTED.

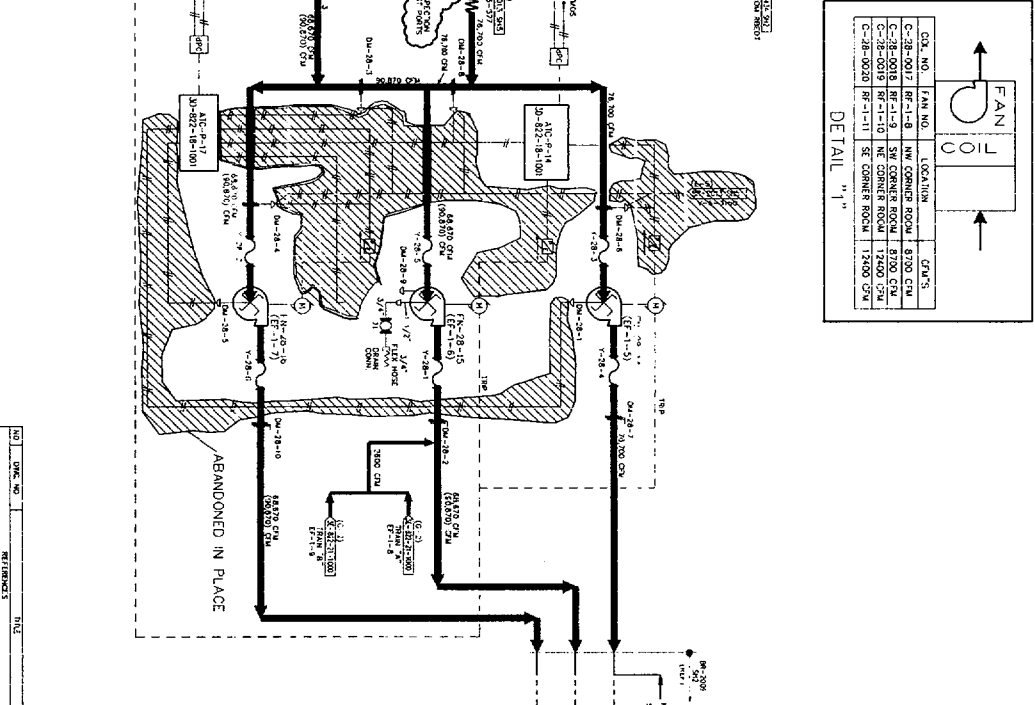
[illegible]

REV	DATE	DESCRIPTION
56	C-4.5	EOP CHANGING

AmerGen REACTOR BUILDING VENTILATION FLOW DIAGRAM		ORDER NO. BR 2011 SCALE 1/4" = 1'-0" SHEET 1 OF 1
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NO.	DATE	REVISIONS
1	11/11/03	ISSUED

THIS IS A COMPUTER GENERATED DRAWING. IT IS THE RESPONSIBILITY OF THE USER TO VERIFY THE ACCURACY OF THE DATA ENTERED INTO THE SOFTWARE. THE SOFTWARE DOES NOT GUARANTEE THE ACCURACY OF THE RESULTS. THE USER SHALL BE RESPONSIBLE FOR THE RESULTS. THE SOFTWARE DOES NOT GUARANTEE THE ACCURACY OF THE RESULTS. THE USER SHALL BE RESPONSIBLE FOR THE RESULTS.

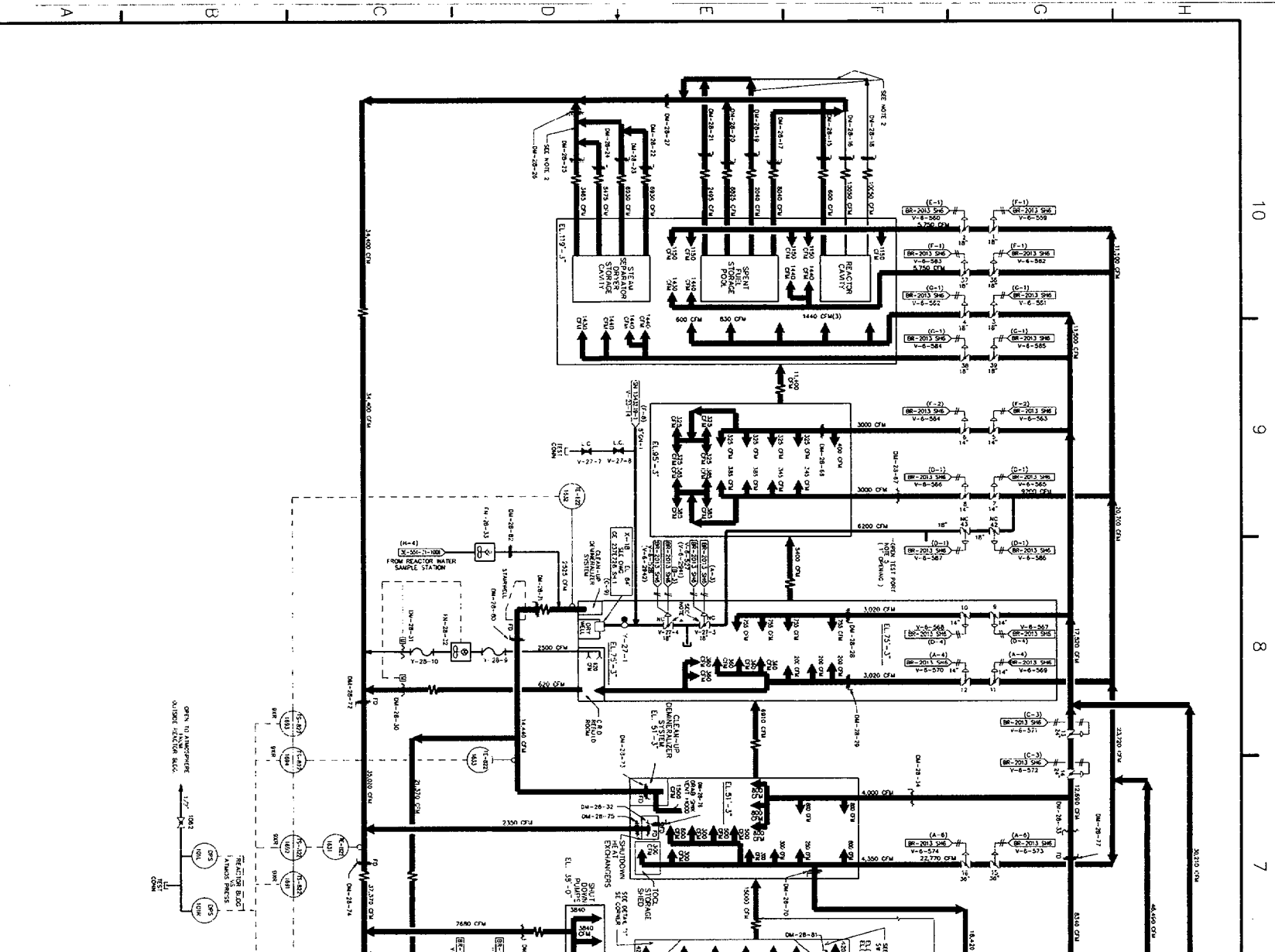


CH. NO.	FAN NO.	LOCATION	UNIT'S
C-28-001	RF-1-8	NW CORNER ROOM	8700 CPM
C-28-002	RF-1-9	SW CORNER ROOM	8700 CPM
C-28-003	RF-1-10	SE CORNER ROOM	8700 CPM
C-28-004	RF-1-11	NE CORNER ROOM	8700 CPM

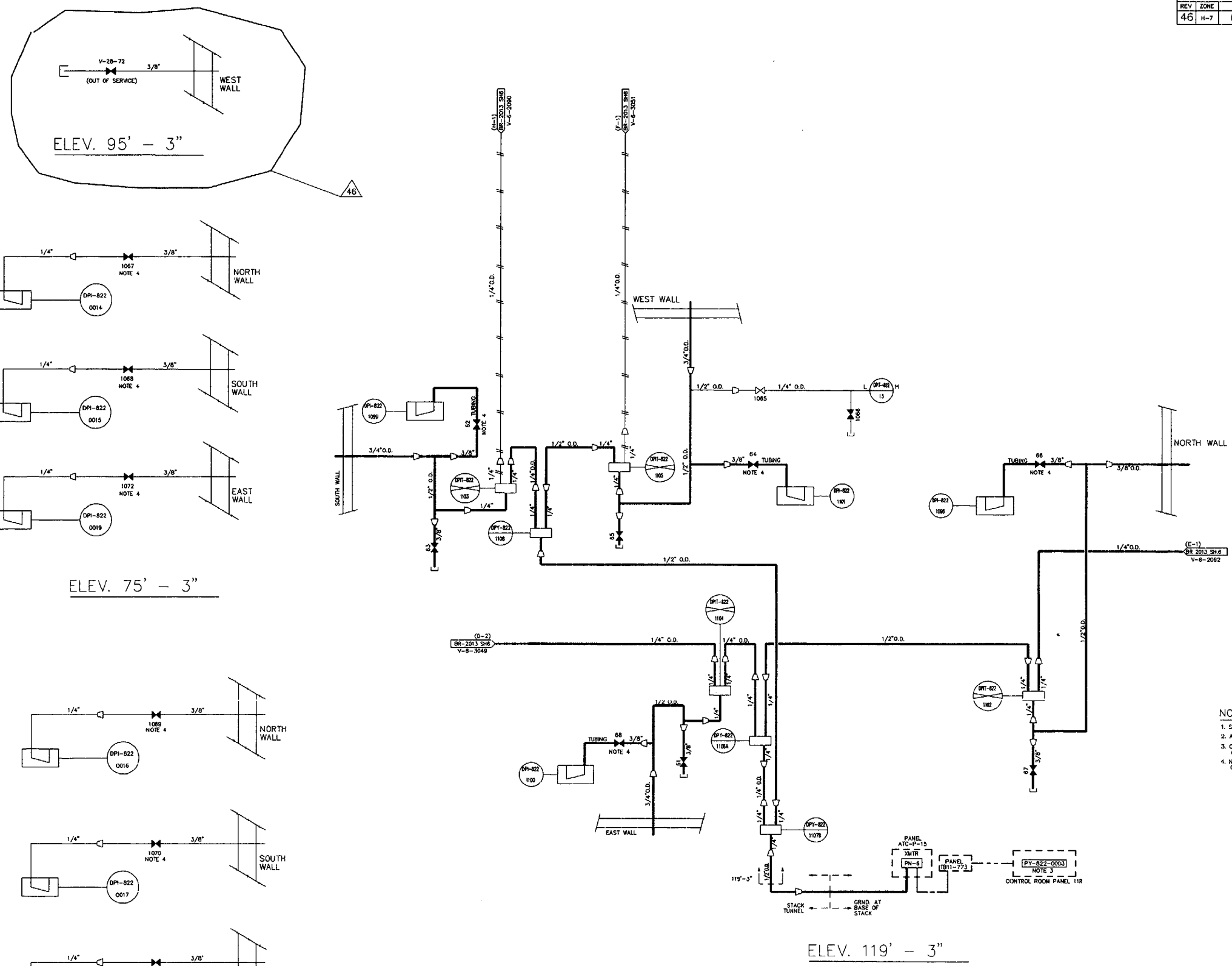
GENERAL NOTES:

1. SEE SHEET 1 FOR NOTES AND SPECIFICATIONS.
2. THE REACTOR BUILDING VENTILATION SYSTEM IS DESIGNED TO MAINTAIN THE REACTOR BUILDING AT A POSITIVE PRESSURE OF 0.05 INCHES OF WATER (0.00125 PSI) TO PREVENT UNDESIRABLE AIR INTRUSION.
3. THE REACTOR BUILDING VENTILATION SYSTEM IS DESIGNED TO MAINTAIN THE REACTOR BUILDING AT A POSITIVE PRESSURE OF 0.05 INCHES OF WATER (0.00125 PSI) TO PREVENT UNDESIRABLE AIR INTRUSION.
4. THE REACTOR BUILDING VENTILATION SYSTEM IS DESIGNED TO MAINTAIN THE REACTOR BUILDING AT A POSITIVE PRESSURE OF 0.05 INCHES OF WATER (0.00125 PSI) TO PREVENT UNDESIRABLE AIR INTRUSION.
5. THE REACTOR BUILDING VENTILATION SYSTEM IS DESIGNED TO MAINTAIN THE REACTOR BUILDING AT A POSITIVE PRESSURE OF 0.05 INCHES OF WATER (0.00125 PSI) TO PREVENT UNDESIRABLE AIR INTRUSION.

LABELLING NOTE:
ALL VALUES ON THIS SHEET ARE PREFIXED V-28 UNLESS OTHERWISE NOTED.



REVISIONS		
REV	ZONE	DESCRIPTION
46	H-7	ECDC312170

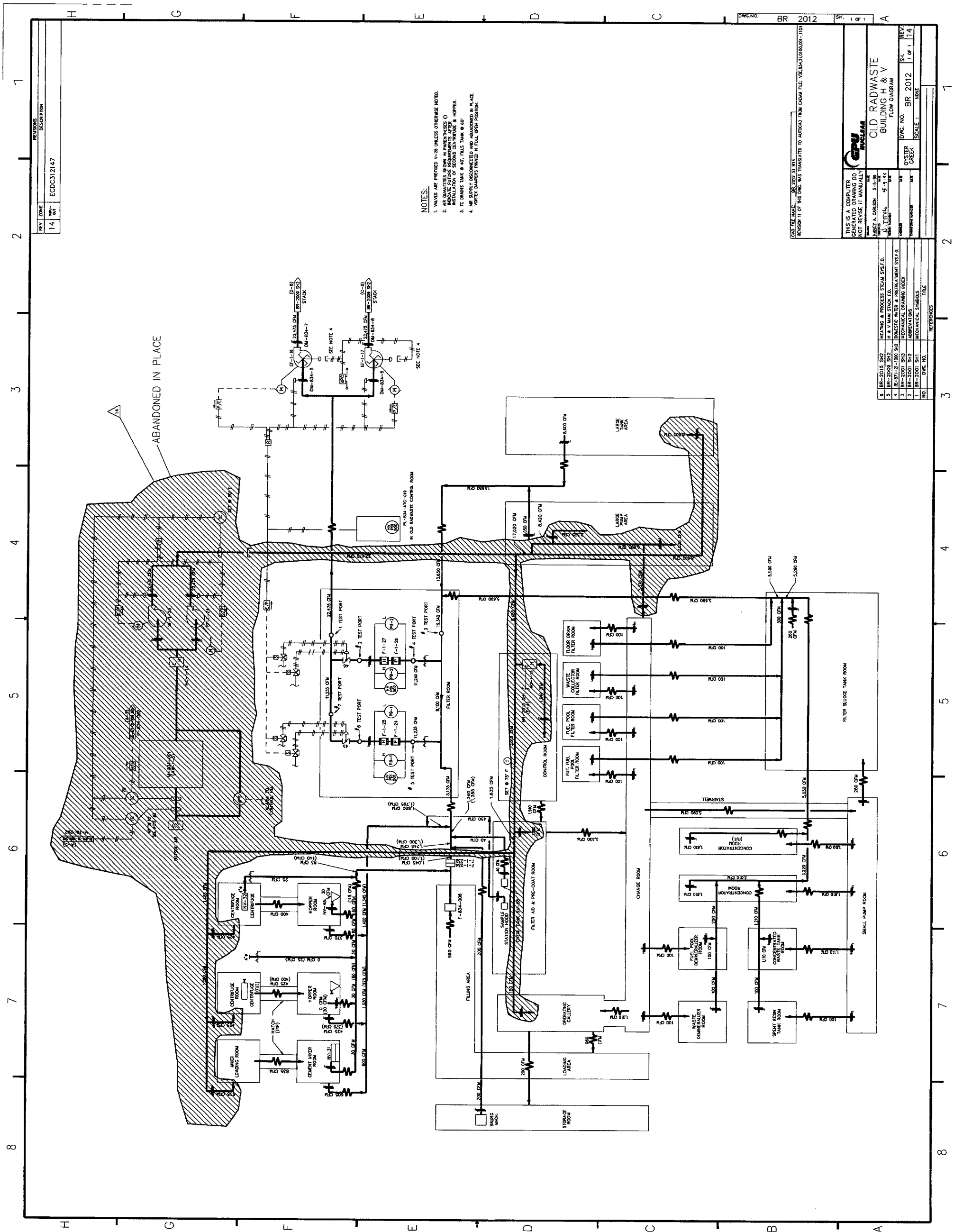


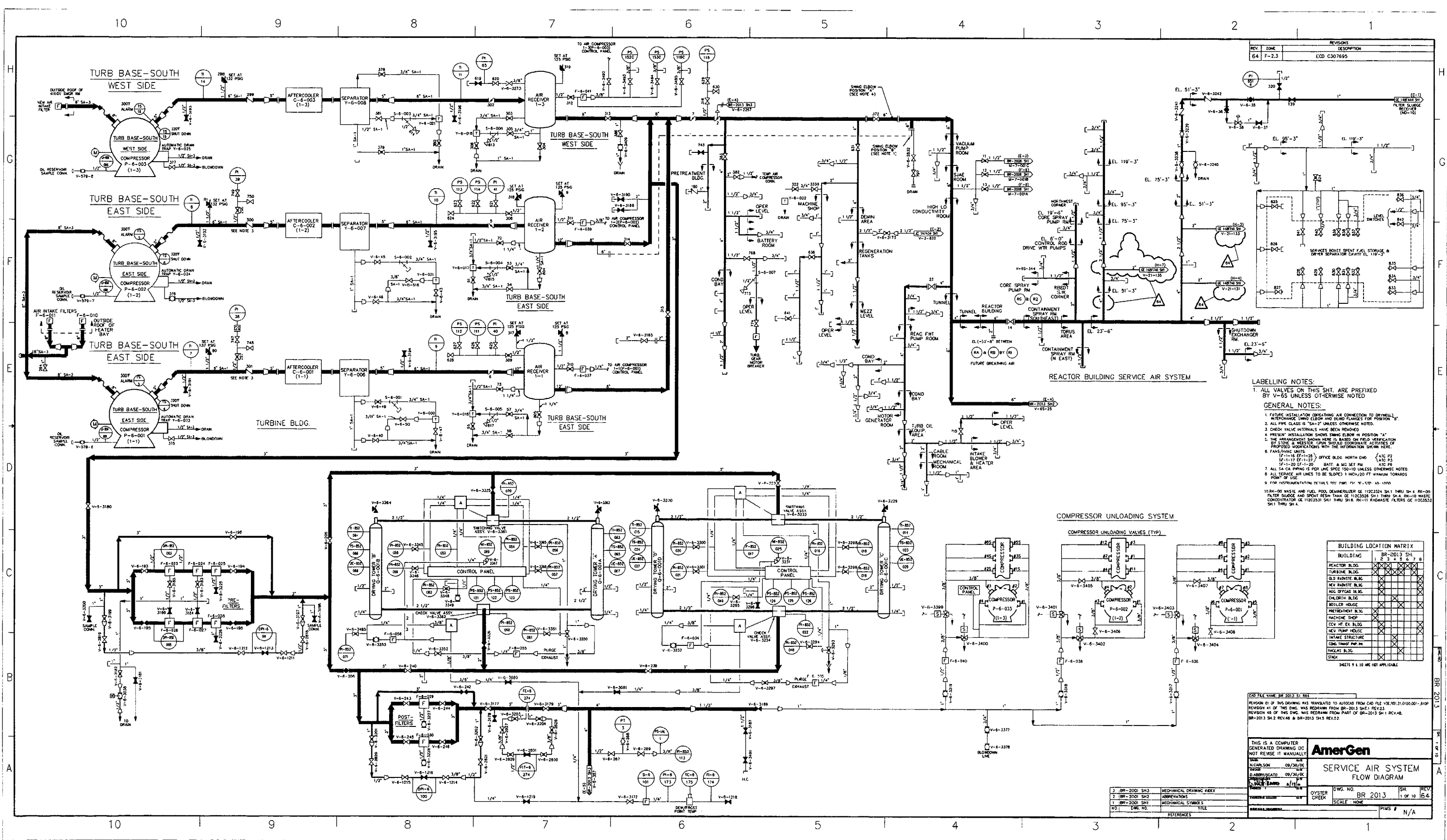
- NOTES:
1. SEE SHEET 1 FOR NOTES AND REFERENCES.
 2. ALL VALVES ARE PREFIXED BY V-28 UNLESS OTHERWISE NOTED.
 3. COMPONENT PY-822-0003 PROVIDES AN OUTPUT SIGNAL TO ANNUNCIATOR L-2-C ON PANEL 56/57.
 4. NORMALLY CLOSED/OPENED ONLY DURING SECONDARY CONTAINMENT LEAK RATE TEST.

REACTOR BUILDING NEGATIVE PRESSURE MONITORING SYSTEM

CAD FILE NAME: BR 2011 S3 R46		REVISION 34 OF THIS DWG. WAS REDRAWN FROM PART OF BR 2011 REV. 29.	
REVISION 45 OF THIS DWG. WAS TRANSLATED TO AUTOCAD FROM CADAM FILE: V06,822,21,01,00,003-4501			
THIS IS A COMPUTER GENERATED DRAWING DO NOT REUSE IT MANUALLY			
		REACTOR BUILDING VENILATION FLOW DIAGRAM	
DRAWN BY NANCY A. CARLSON 12-15-99 CHECKED BY J. L. CARLSON 12-16-99 DESIGNED BY J. L. CARLSON 12-15-99	DWG. NO. BR 2011 SCALE: NONE	SHEET 3 OF 3 REV. 46	PROJECT OYSTER CREEK PMS # N/A

NO.	DWG. NO.	REFERENCES	TITLE





REV	DATE	DESCRIPTION
64	F-2.3	ECO C307695

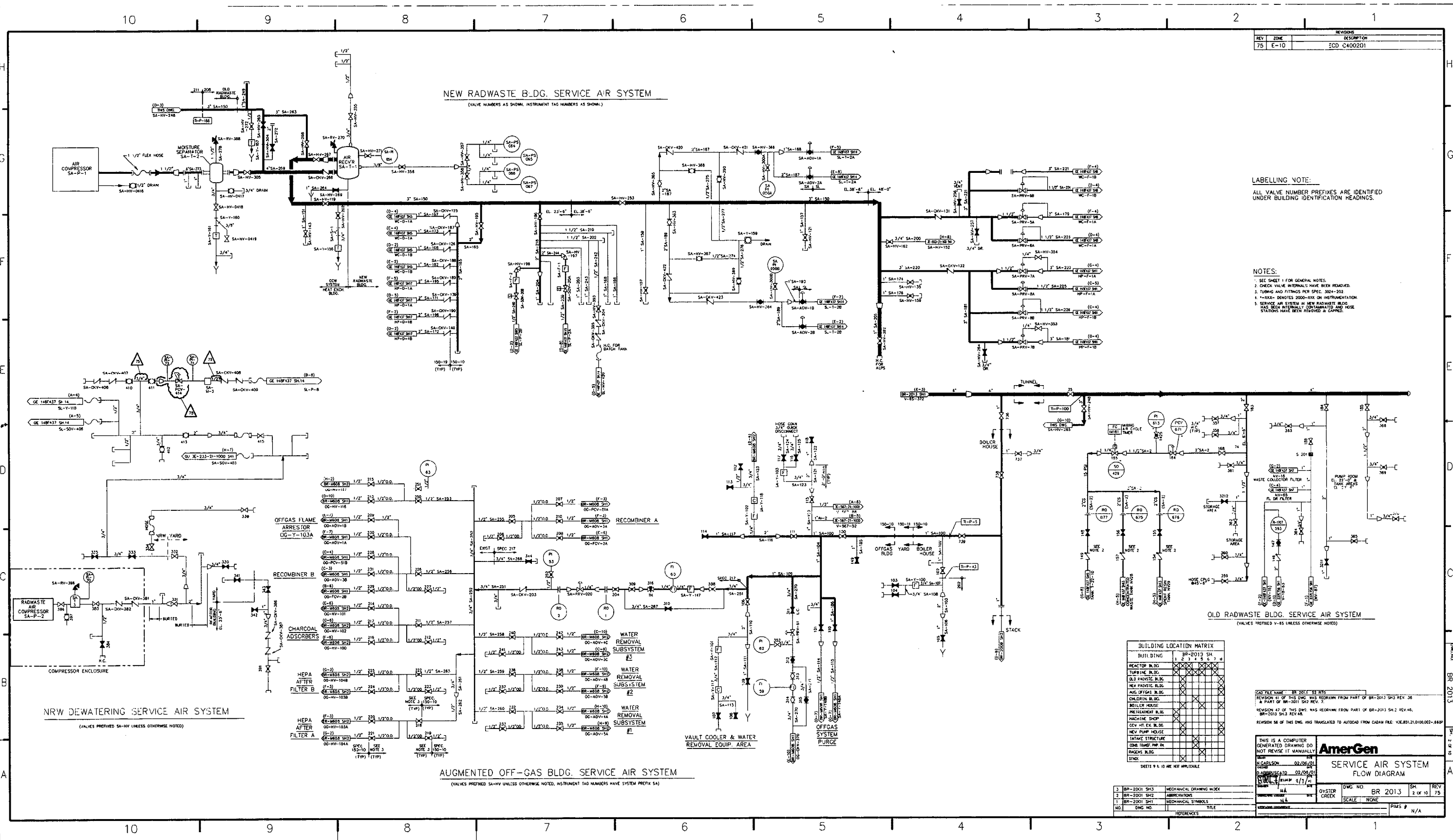
- LABELLING NOTES:**
1. ALL VALVES ON THIS SHT. ARE PREFIXED BY V-65 UNLESS OTHERWISE NOTED
- GENERAL NOTES:**
1. FUTURE INSTALLATION (BREATHING AIR CONNECTION TO DRYWELL) INTERCHANGE SHOWN ELBOW AND BEND FLANGES FOR POSITION "Y".
 2. ALL PIPE CLASSES "SA-2" UNLESS OTHERWISE NOTED.
 3. CHECK VALVE INTERNALS HAVE BEEN REMOVED.
 4. PRESSURE INSTALLATION SHOWN THING ELBOW IN POSITION "A".
 5. THE ARRANGEMENT SHOWN HERE IS BASED ON FIELD VERIFICATION OF THE INSTALLATION. DISCREPANCIES BETWEEN THE INFORMATION SHOWN HERE AND THE INFORMATION SHOWN IN THE FIELD SHALL BE THE RESPONSIBILITY OF THE USER.
 6. FANS, PUMP, UNIT.
 7. ALL SA CA PIPING IS FOR LINE SPEC 100-10 UNLESS OTHERWISE NOTED.
 8. ALL SERVICE AIR LINES TO BE BLOPPED 1 INCH/20 FT WINDOW TOWARDS POINT OF USE.
 9. FOR INFORMATION: BY LINES 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

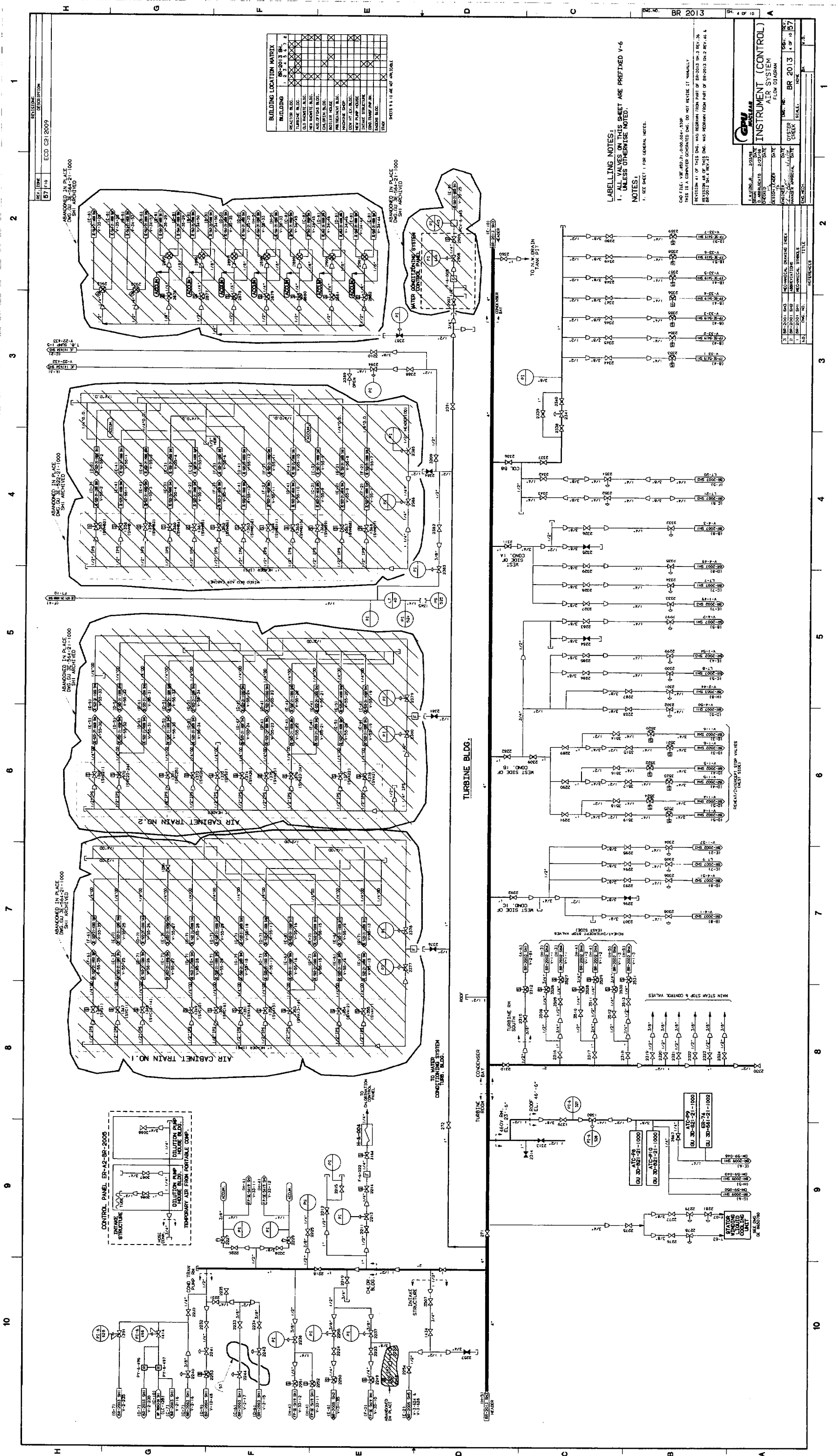
BUILDING	BR-2013 SH1
REACTOR BLDG.	1 2 3 4 5 6 7 8
TURBINE BLDG.	1 2 3 4 5 6 7 8
OLD WASTE BLDG.	1 2 3 4 5 6 7 8
NEW WASTE BLDG.	1 2 3 4 5 6 7 8
AUG OFFICE BLDG.	1 2 3 4 5 6 7 8
CHLORINE BLDG.	1 2 3 4 5 6 7 8
REACTOR HOUSE	1 2 3 4 5 6 7 8
PRETREATMENT BLDG.	1 2 3 4 5 6 7 8
MACHINE SHOP	1 2 3 4 5 6 7 8
CCW HT. EX. BLDG.	1 2 3 4 5 6 7 8
NEW PUMP HOUSE	1 2 3 4 5 6 7 8
INTAKE STRUCTURE	1 2 3 4 5 6 7 8
LONG TRANS. PMP. RM.	1 2 3 4 5 6 7 8
WASTE BLDG.	1 2 3 4 5 6 7 8
STACK	1 2 3 4 5 6 7 8

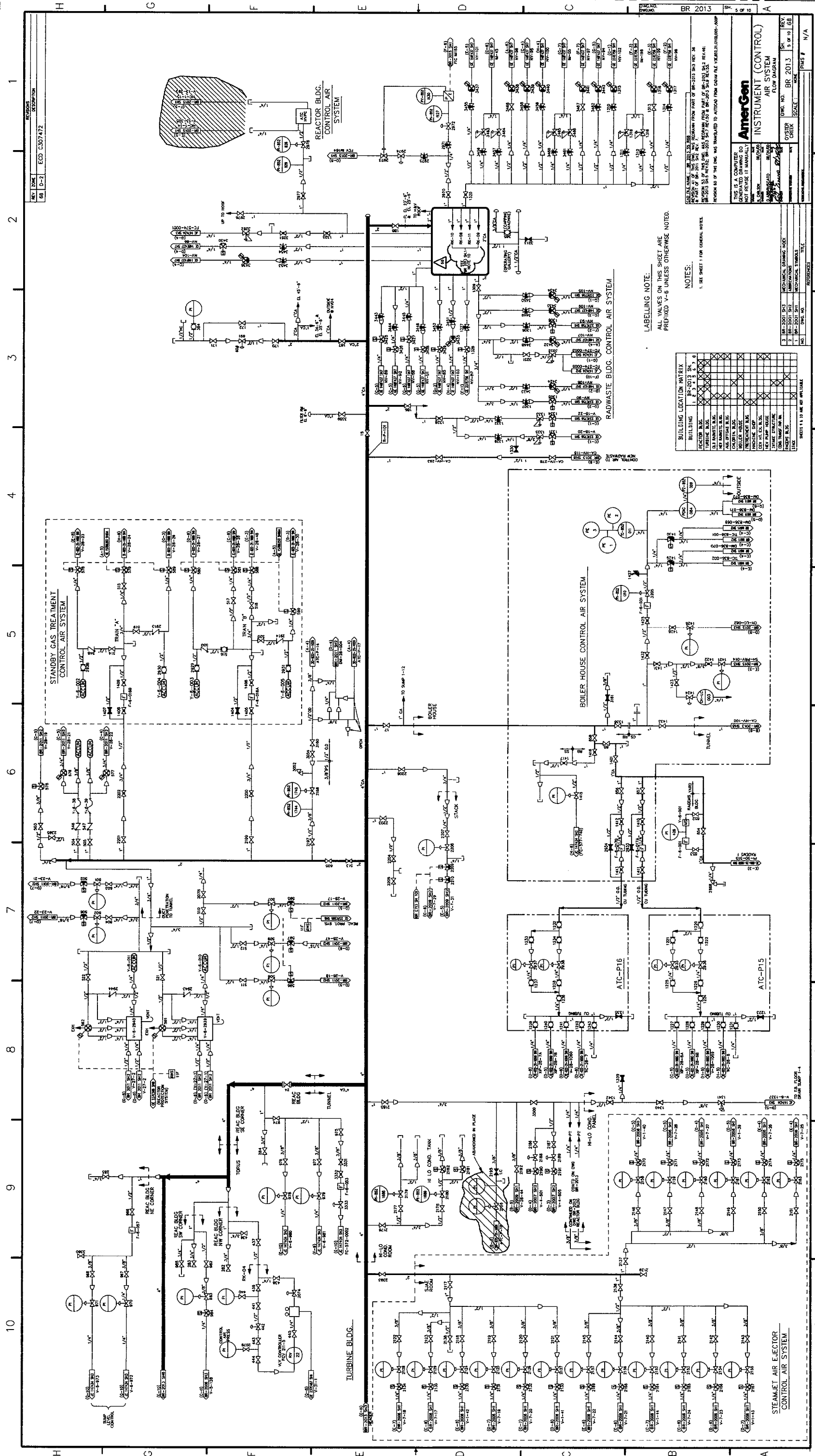
THIS IS A COMPUTER GENERATED DRAWING DO NOT REUSE IT MANUALLY

REVISION 41 OF THIS DWG. WAS REDESIGNED FROM BR-2013 SH1 REV. 23. REVISION 40 OF THIS DWG. WAS REDESIGNED FROM PART OF BR-2013 SH1 REV. 40. BR-2013 SH1 REV. 40 & BR-2013 THIS REV. 41.

NO.	DATE	DESCRIPTION
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REV	DATE	DESCRIPTION
68	D-2	ECD C307472

BR 2013
THIS IS A COMPUTER GENERATED DRAWING. NO CHANGES TO THIS DRAWING WILL BE MADE WITHOUT THE APPROVAL OF THE DESIGNER. ANY CHANGES TO THIS DRAWING WILL BE MADE BY THE DESIGNER. ANY CHANGES TO THIS DRAWING WILL BE MADE BY THE DESIGNER.

INSTRUMENT (CONTROL) AIR SYSTEM FLOW DIAGRAM	
UNO. NO.	REV.
BR 2013	5 of 10
DESIGNER	SCALE
DATE	DATE
BY	DATE
CHKD	DATE
APPD	DATE
DATE	DATE

BUILDING LOCATION MATRIX										
BUILDING	PR-2013 SH									
	1	2	3	4	5	6	7	8	9	10
REACTOR BLDG.										
TURBINE BLDG.										
CLF RADWASTE BLDG.										
HEP RADWASTE BLDG.										
AUG EFFLUENT BLDG.										
CLARIFIER BLDG.										
WELLER HOUSE										
PRETREATMENT BLDG.										
MACHINE SHOP										
CRY HT. OIL BLDG.										
HEP PAIP HOUSE										
INTAKE STRUCTURE										
COND. TANK 100 IN.										
MAGNET BLDG.										
LAKE										

NOTES:
1. SEE SHEET 1 FOR GENERAL NOTE.

ALL VALVES ON THIS SHEET ARE PREPARED V-6 UNLESS OTHERWISE NOTED.

LABELLING NOTE:

THIS IS A COMPUTER GENERATED DRAWING. NO CHANGES TO THIS DRAWING WILL BE MADE WITHOUT THE APPROVAL OF THE DESIGNER. ANY CHANGES TO THIS DRAWING WILL BE MADE BY THE DESIGNER. ANY CHANGES TO THIS DRAWING WILL BE MADE BY THE DESIGNER.

BR 2013

INSTRUMENT (CONTROL) AIR SYSTEM FLOW DIAGRAM

UNO. NO. REV.

BR 2013 5 of 10

DESIGNER SCALE

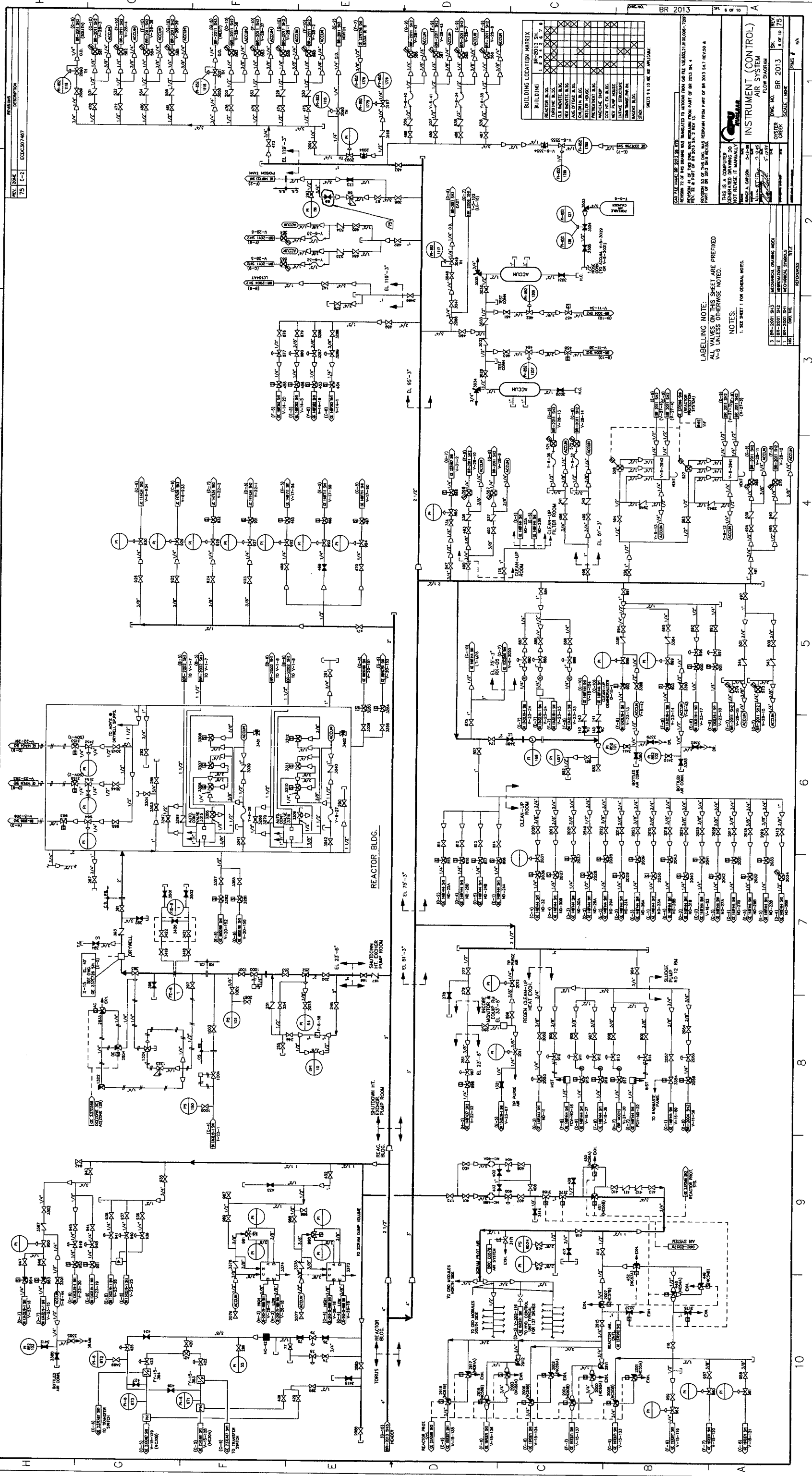
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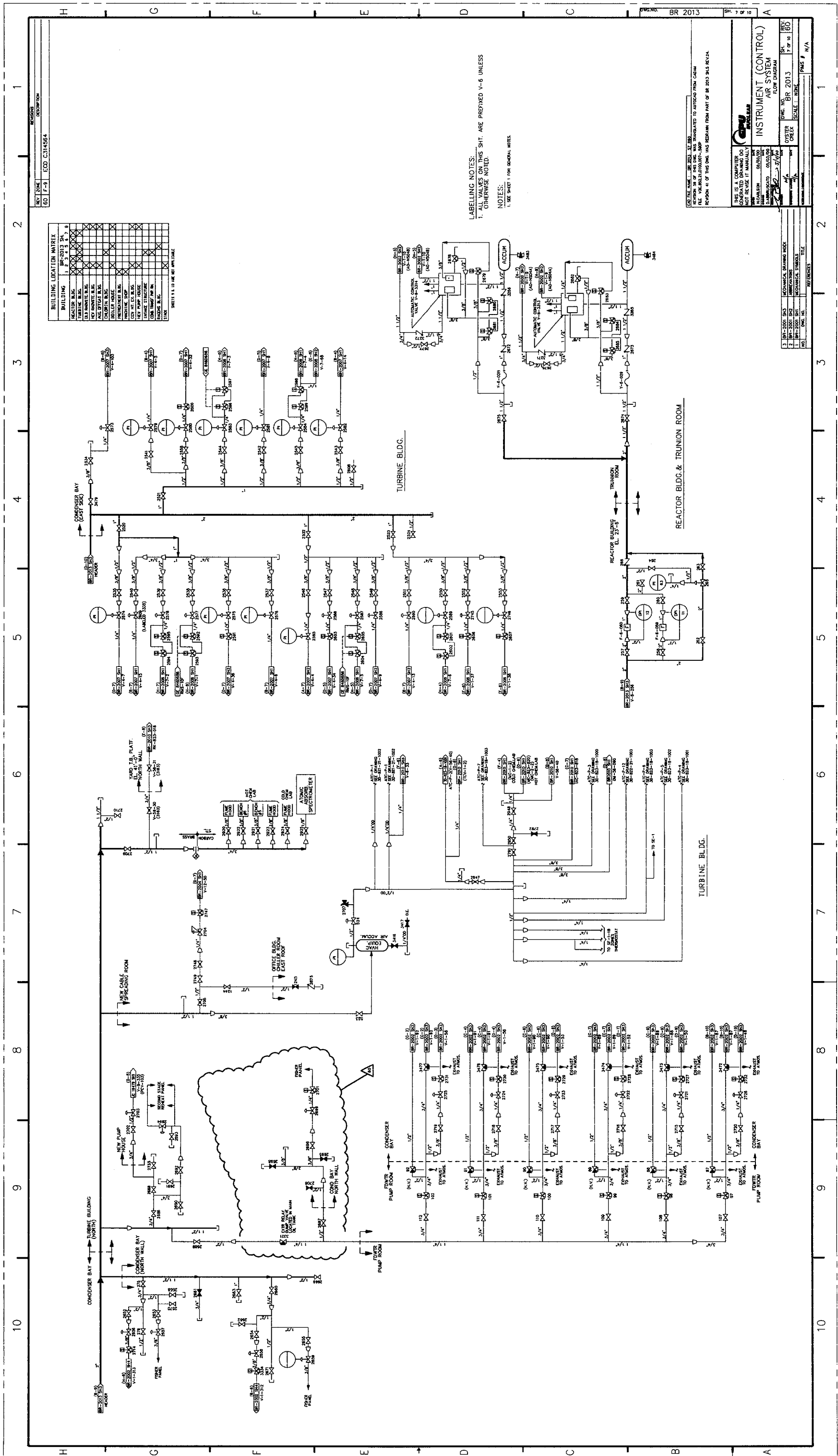
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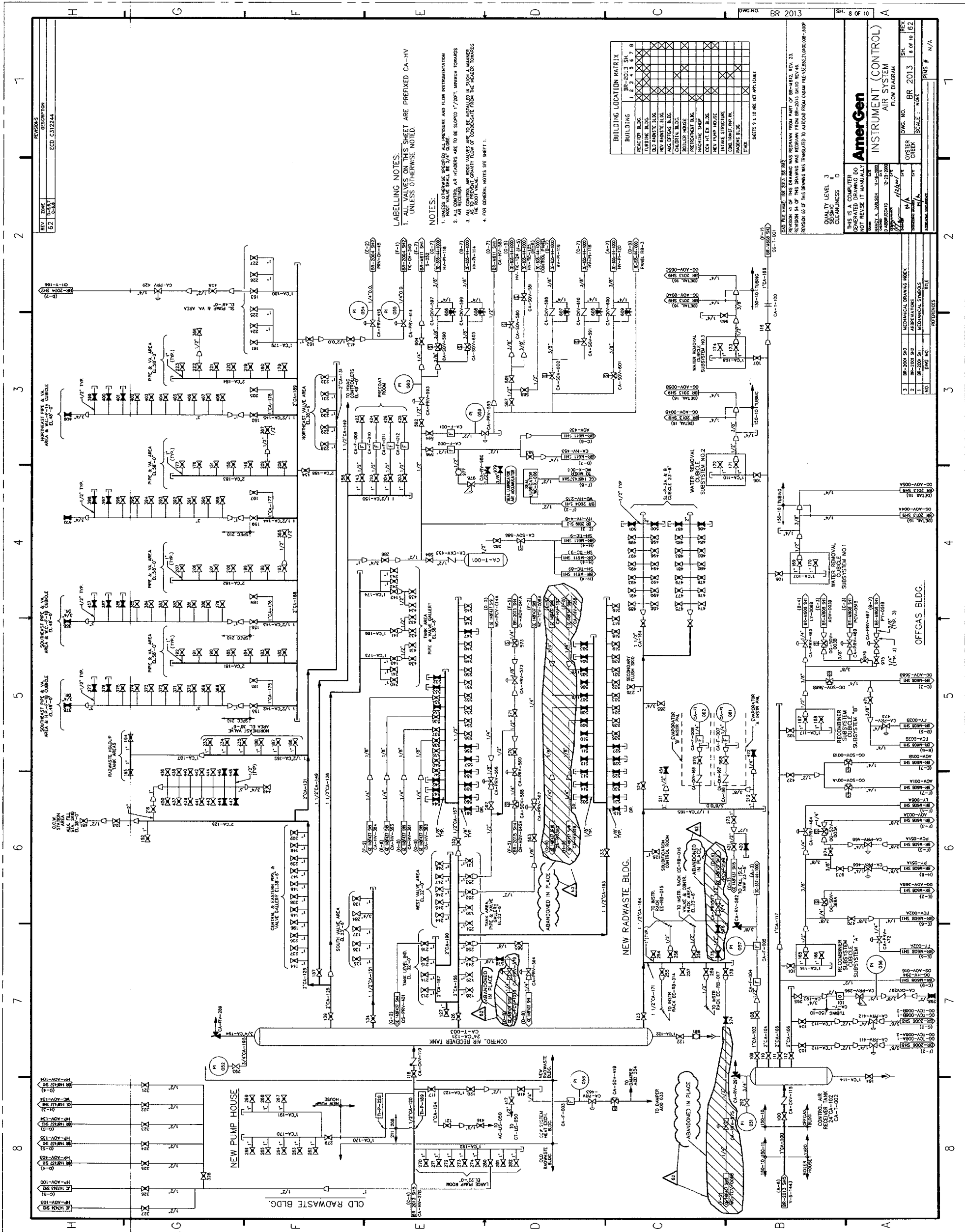
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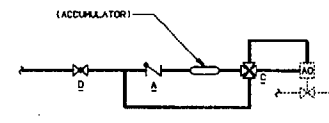
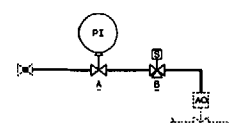
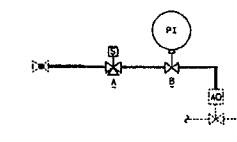
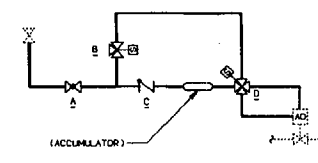
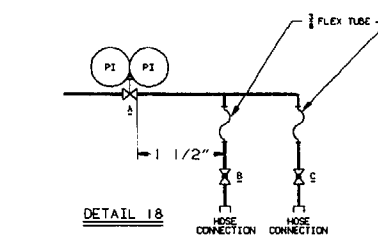
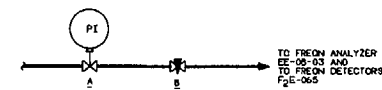
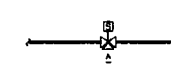
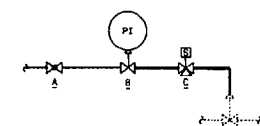
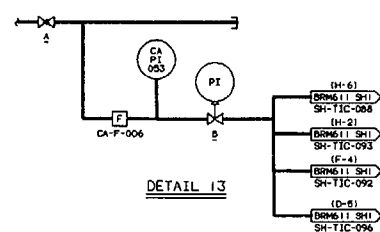
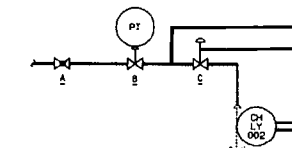
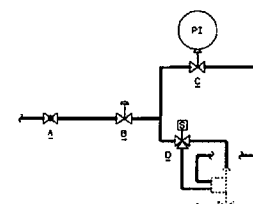
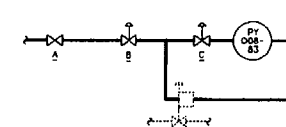
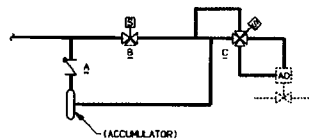
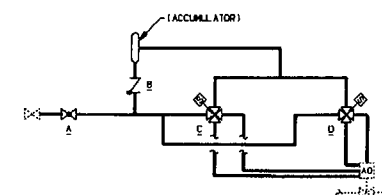
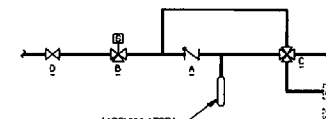
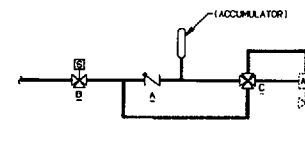
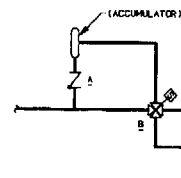
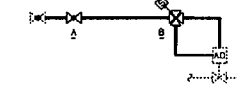
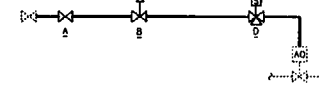
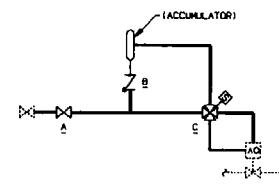
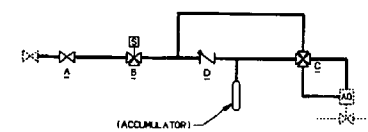
APPD DATE

DATE DATE









REVISIONS	
REV. ZONE	DESCRIPTION
57	ADMINISTRATIVE CHANGE

NOTES:

1. SEE SHEET 1 FOR GENERAL NOTES.
2. WORK THIS DRAWING WITH BR 2013 SH.10

BUILDING LOCATION MATRIX							
BUILDING	BR-2013 SH.						
	1	2	3	4	5	6	7
REACTOR BLDG.							
TURBINE BLDG.							
OLD RADWASTE BLDG.							
NEW RADWASTE BLDG.							
AUG. OFFGAS BLDG.							
CHILDREN BLDG.							
BOILER HOUSE							
PRETREATMENT BLDG.							
MACHINE SHOP							
COW HT. EX. BLDG.							
NEW PUMP HOUSE							
INTAKE STRUCTURE							
COND. TRANSF. PIP. IN.							
RAISING BLDG.							
STADI							

CAD FILE:VJE,857,21,0100,009-,6701

THIS IS A COMPUTER GENERATED PAGE. DO NOT REVISE IT MANUALLY

REVISION 41 OF THIS DRAWING WAS REDRAWN FROM GU 3E-857-21-1000 SHI REV2

REVISION 56 OF THIS DRAWING WAS REDRAWN FROM BR 2013 SH.12 REV.41.

ORIGINAL DRAWING OUT
SAC. DATE

R. A. KOCH	04/06/93	GPU Nuclear /BR INSTRUMENT (CONTROL) AIR SYSTEM (FLUID DETAILS NEW RADWASTE FLOW DIAGRAM)
DRAWN	DATE	
N. TITULO	04/07/93	
CHECKED	DATE	
DESIGN LEADER	DATE	

3	BR-2001 SH3	MECHANICAL DRAWING INDEX	INCHES	DATE	DWG. NO.	SH.	ME
2	BR-2001 SH2	ABBREVIATIONS	MANAGER APPROVAL / DATE	10/19/03	BR 2013	9 of 10	5
1	BR-2001 SH1	MECHANICAL SYMBOLS			SCALE:	NONE	
NO.	DWG. NO.	TITLE	ENG. MECH.		BA	TASK	
		REFERENCES					

8	7	6	5	4	3	2	1
REV. NO. ZONE DESCRIPTION							REV. NO. ZONE DESCRIPTION
52 0-2 ADMINISTRATIVE CHANGE PER CMT. 187058							52 0-2 ADMINISTRATIVE CHANGE PER CMT. 187058
ROOT VALVE NO.	DETAIL NO.	A	B	C	D	AD VALVE	REMARKS
CA-HV-177	1	CA-HV-611	SA-SOV-010A	CA-ADV-615	CA-ADV-614	SA-ADV-010A	
CA-HV-190	1	CA-HV-612	SA-SOV-010B	CA-ADV-616	CA-ADV-619	SA-ADV-010B	
CA-HV-176	1	CA-HV-617	SA-SOV-011A	CA-ADV-621	CA-ADV-620	SA-ADV-011A	
CA-HV-184	1	CA-HV-618	SA-SOV-011B	CA-ADV-622	CA-ADV-625	SA-ADV-011B	
CA-HV-150	1	CA-HV-623	SA-SOV-012A	CA-ADV-627	CA-ADV-626	SA-ADV-012A	
CA-HV-183	1	CA-HV-624	SA-SOV-012B	CA-ADV-628	CA-ADV-631	SA-ADV-012B	
CA-HV-149	2	CA-HV-629	CA-CKV-632	SA-SOV-017A	SA-ADV-017A	SA-ADV-017A	
CA-HV-191	2	CA-HV-630	CA-CKV-635	SA-SOV-017B	SA-ADV-017B	SA-ADV-017B	
CA-HV-208	1	CA-HV-633	SA-SOV-019A	CA-ADV-637	CA-ADV-636	SA-ADV-019A	
CA-HV-192	1	CA-HV-634	SA-SOV-019B	CA-ADV-638	CA-ADV-641	SA-ADV-019B	
CA-HV-151	2	CA-HV-639	CA-CKV-642	CH-SOV-012A	CH-ADV-012A	SA-ADV-012A	
CA-HV-185	2	CA-HV-640	CA-CKV-643	CH-SOV-012B	CH-ADV-012B	SA-ADV-012B	
CA-HV-179	1	CA-HV-646	SA-SOV-013A	CA-ADV-650	CA-ADV-644	SA-ADV-013A	
CA-HV-180	1	CA-HV-652	SA-SOV-014A	CA-ADV-656	CA-ADV-645	SA-ADV-014A	
CA-HV-219	1	CA-HV-658	SA-SOV-015A	CA-ADV-662	CA-CKV-648	SA-ADV-015A	
CA-HV-220	1	CA-HV-664	SA-SOV-016A	CA-CKV-649	CA-ADV-016A	SA-ADV-016A	
CA-HV-221	2	CA-HV-670	CA-CKV-654	SA-SOV-018A	SA-ADV-018A	SA-ADV-018A	
CA-HV-223	2	CA-HV-674	CA-CKV-655	CH-SOV-013A	CH-ADV-013A	SA-ADV-013A	
CA-HV-196	1	CA-HV-647	SA-SOV-013B	CA-ADV-651	CA-CKV-660	SA-ADV-013B	
CA-HV-199	1	CA-HV-653	SA-SOV-014B	CA-ADV-657	CA-CKV-661	SA-ADV-014B	
CA-HV-200	1	CA-HV-659	SA-SOV-015B	CA-ADV-663	CA-CKV-666	SA-ADV-015B	
CA-HV-206	1	CA-HV-665	SA-SOV-016B	CA-ADV-669	CA-CKV-667	SA-ADV-016B	
CA-HV-207	2	CA-HV-671	CA-CKV-672	SA-SOV-018B	SA-ADV-018B	SA-ADV-018B	
CA-HV-201	2	CA-HV-675	CA-CKV-673	CH-SOV-013B	CH-ADV-013B	SA-ADV-013B	
CA-HV-348	2	CA-HV-678	CA-CKV-676	HP-SOV-014B	HP-ADV-014B	HP-ADV-014B	
CA-HV-369	2	CA-HV-680	CA-CKV-677	HP-SOV-018B	HP-ADV-018B	HP-ADV-018B	
CA-HV-370	2	CA-HV-681	CA-CKV-679	HP-SOV-017B	HP-ADV-017B	HP-ADV-017B	
CA-HV-371	2	CA-HV-682	CA-CKV-687	HP-SOV-028B	HP-ADV-028B	HP-ADV-028B	
CA-HV-372	2	CA-HV-683	CA-CKV-689	HP-SOV-016B	HP-ADV-016B	HP-ADV-016B	
CA-HV-373	2	CA-HV-688	CA-CKV-691	HP-SOV-029B	HP-ADV-029B	HP-ADV-029B	
CA-HV-374	2	CA-HV-690	CA-CKV-695	HP-SOV-010B	HP-ADV-010B	HP-ADV-010B	
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CA-HV-181	4	CA-HV-684	HP-SOV-027B		HP-ADV-027B	HP-ADV-027B	
CA-HV-379	2	CA-HV-686	CA-CKV-697	MC-SOV-026B	MC-ADV-026B	MC-ADV-026B	
CA-HV-380	2	CA-HV-688	CA-CKV-699	MC-SOV-030B	MC-ADV-030B	MC-ADV-030B	
CA-HV-381	2	CA-HV-694	CA-CKV-701	MC-SOV-029B	MC-ADV-029B	MC-ADV-029B	
CA-HV-382	2	CA-HV-696	CA-CKV-703	MC-SOV-031B	MC-ADV-031B	MC-ADV-031B	
CA-HV-383	2	CA-HV-698	CA-CKV-705	MC-SOV-025B	MC-ADV-025B	MC-ADV-025B	
CA-HV-384	2	CA-HV-700	CA-CKV-723	MC-SOV-027B	MC-ADV-027B	MC-ADV-027B	
CA-HV-385	2	CA-HV-702	CA-CKV-724	MC-SOV-028B	MC-ADV-028B	MC-ADV-028B	
CA-HV-189	4	CA-HV-704	MC-SOV-039B		MC-ADV-039B	MC-ADV-039B	
CA-HV-389	2	CA-HV-706	CA-CKV-725	HP-SOV-015A	HP-ADV-015A	HP-ADV-015A	
CA-HV-390	2	CA-HV-707	CA-CKV-726	HP-SOV-017A	HP-ADV-017A	HP-ADV-017A	
CA-HV-391	2	CA-HV-708	CA-CKV-727	HP-SOV-018A	HP-ADV-018A	HP-ADV-018A	
CA-HV-392	2	CA-HV-709	CA-CKV-728	HP-SOV-020A	HP-ADV-020A	HP-ADV-020A	
CA-HV-393	2	CA-HV-710	CA-CKV-729	HP-SOV-014A	HP-ADV-014A	HP-ADV-014A	
CA-HV-394	3	CA-HV-711	CA-PRV-914	HP-SOV-003A	HP-FCV-003A	HP-FCV-003A	
CA-HV-395	2	CA-HV-712	CA-CKV-730	HP-SOV-025A	HP-ADV-025A	HP-ADV-025A	
CA-HV-396	2	CA-HV-713	CA-CKV-731	HP-SOV-016A	HP-ADV-016A	HP-ADV-016A	
CA-HV-205	4	CA-HV-715	MC-SOV-039A	MC-ADV-039A	MC-ADV-039A	MC-ADV-039A	
CA-HV-402	2	CA-HV-716	CA-CKV-732	MC-SOV-030A	MC-ADV-030A	MC-ADV-030A	
CA-HV-403	2	CA-HV-717	CA-CKV-733	MC-SOV-031A	MC-ADV-031A	MC-ADV-031A	
CA-HV-404	2	CA-HV-718	CA-CKV-734	MC-SOV-029A	MC-ADV-029A	MC-ADV-029A	
CA-HV-405	2	CA-HV-719	CA-CKV-735	MC-SOV-027A	MC-ADV-027A	MC-ADV-027A	
CA-HV-406	2	CA-HV-720	CA-CKV-736	MC-SOV-026A	MC-ADV-026A	MC-ADV-026A	
CA-HV-407	2	CA-HV-721	CA-CKV-737	MC-SOV-025A	MC-ADV-025A	MC-ADV-025A	
CA-HV-408	2	CA-HV-722	CA-CKV-738	MC-SOV-028A	MC-ADV-028A	MC-ADV-028A	
CA-HV-197	4	CA-HV-613	HP-SOV-027A	HP-ADV-027A	HP-ADV-027A	HP-ADV-027A	
CA-HV-425	5	CA-CKV-739	CH-SOV-015	CH-ADV-015	CH-ADV-015	CH-ADV-015	
CA-HV-425	5	CA-CKV-740	MC-SOV-032A	MC-ADV-032A	MC-ADV-032A	MC-ADV-032A	
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CA-HV-425	5	CA-CKV-742	MC-SOV-033A	MC-ADV-033A	MC-ADV-033A	MC-ADV-033A	
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CA-HV-426	6	CA-CKV-744	CH-SOV-014	CH-ADV-014	CH-ADV-014	CH-ADV-014	
CA-HV-426	6	CA-CKV-745	CH-SOV-016A	CA-ADV-767	CH-ADV-016A	CH-ADV-016A	
CA-HV-426	6	CA-CKV-746	CH-SOV-016B	CA-ADV-768	CH-ADV-016B	CH-ADV-016B	
CA-HV-426	7	CA-CKV-747	MC-SOV-034A	CA-ADV-769	CA-ADV-763	MC-ADV-034A	
CA-HV-426	22	CA-CKV-748	MC-SOV-034B	CA-ADV-770	CA-HV-971	MC-ADV-034B	
CA-HV-426	6	CA-CKV-749	MC-SOV-035A	CA-ADV-771	MC-ADV-035A	MC-ADV-035A	
CA-HV-426	6	CA-CKV-750	MC-SOV-035B	CA-ADV-772	MC-ADV-035B	MC-ADV-035B	
CA-HV-426	6	CA-CKV-751	MC-SOV-036A	CA-ADV-773	MC-ADV-036A	MC-ADV-036A	
CA-HV-426	6	CA-CKV-752	MC-SOV-036B	CA-ADV-774	MC-ADV-036B	MC-ADV-036B	
CA-HV-424	6	CA-CKV-753	CH-SOV-020	CH-ADV-020	CH-ADV-020	CH-ADV-020	
CA-HV-424	5	CA-CKV-754	HP-SOV-020A	HP-ADV-020A	HP-ADV-020A	HP-ADV-020A	
CA-HV-424	5	CA-CKV-755	HP-SOV-020B	HP-ADV-020B	HP-ADV-020B	HP-ADV-020B	
CA-HV-424	5	CA-CKV-756	HP-SOV-021A	HP-ADV-021A	HP-ADV-021A	HP-ADV-021A	
CA-HV-424	5	CA-CKV-757	HP-SOV-021B	HP-ADV-021B	HP-ADV-021B	HP-ADV-021B	
CA-HV-423	5	CA-CKV-758	CH-SOV-019	CH-ADV-019	CH-ADV-019	CH-ADV-019	
CA-HV-423	6	CA-CKV-759	CH-SOV-021A	CA-ADV-775	CH-ADV-021A	CH-ADV-021A	
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CA-HV-423	6	CA-CKV-761	HP-SOV-022A	CA-ADV-777	HP-ADV-022A	HP-ADV-022A	
CA-HV-423	6	CA-CKV-762	HP-SOV-022B	CA-ADV-778	HP-ADV-022B	HP-ADV-022B	
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CA-HV-432	2	CA-HV-787	CA-CKV-788				
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CA-HV-434	1	NC-SOV-019C	CA-ADV-790	CA-CKV-795	MC-ADV-019C		
CA-HV-435	2	CA-HV-791	CA-CKV-792				
CA-HV-186	2	CA-HV-796	CA-CKV-797	CH-SOV-010B	CH-ADV-010B		
CA-HV-187	2	CA-HV-798	CH-SOV-010A	CH-ADV-010A	CH-ADV-010A		
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CA-HV-243	8	CA-HV-802	CA-CKV-803	MC-SOV-037A-1	MC-SOV-037B-2	MC-ADV-037A	
CA-HV-241	2	CA-HV-804	CA-CKV-805	MC-SOV-038B	MC-ADV-038B		
CA-HV-242	2	CA-HV-806	CA-CKV-807	MC-SOV-038A	MC-ADV-038A		
CA-HV-438	2	CA-HV-821	CA-CKV-831	SL-SOV-002A	SL-ADV-002A		
CA-HV-441	2	CA-HV-822	CA-CKV-832	SL-SOV-002B	SL-ADV-002B		
CA-HV-436	2	CA-HV-823	CA-CKV-833	SL-SOV-003A	SL-ADV-003A		
CA-HV-440	2	CA-HV-824	CA-CKV-834	SL-SOV-003B	SL-ADV-003B		
CA-HV-443	2	CA-HV-825	CA-CKV-835	SL-SOV-012A	SL-ADV-012A		
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CA-HV-441	2	CA-HV-827	SL-SOV-014	SL-ADV-014	SL-ADV-014		
CA-HV-437	2	CA-HV-828	SL-SOV-015	SL-ADV-015	SL-ADV-015		
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	9	CA-CKV-841	SL-SOV-022-1	SL-SOV-022-2	SL-ADV-022		
	9	CA-CKV-842	SL-SOV-035-1	SL-SOV-035-2	SL-ADV-035		
	9	CA-CKV-843	SL-SOV-036-1	SL-SOV-036-2	SL-ADV-036		
CA-HV-257	10	CA-HV-844	CA-PRV-845	CA-PRV-846	SH-PCV-008B		
CA-HV-251	11	CA-HV-847	CA-PRV-848	CA-PRV-849	SH-PCV-008A		
CA-HV-254	12	CA-HV-851	CA-PRV-851	CA-PRV-852	CH-LCV-002		
CA-HV-254	13	CA-HV-853	CA-PRV-854				TO THERMOSTATS
CA-HV-254	14	CA-HV-855	CA-PRV-856	CH-SOV-041B	CH-ADV-041B		
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CA-HV-169	16	OG-SOV-004A			OG-ADV-004A		
CA-HV-171	16	OG-SOV-004B			OG-ADV-004B		
CA-HV-173	16	OG-SOV-004C			OG-ADV-004C		
CA-HV-169	16	OG-SOV-005A			OG-ADV-005A		
CA-HV-171	16	OG-SOV-005B			OG-ADV-005B		
CA-HV-173	16	OG-SOV-005C			OG-ADV-005C		
CA-HV-298	17	CA-PRV-862	CA-HV-863				TO EE-06-002
CA-HV-298	17	CA-PRV-864	CA-HV-865				TO F21-065
CA-HV-298	18	CA-PRV-866	CA-HV-867	CA-HV-868			
CA-HV-298	18	CA-PRV-869	CA-HV-870	CA-HV-871			
CA-HV-474	4	CA-HV-872	SL-SOV-024A		SL-ADV-024A		
CA-HV-475	4	CA-HV-873	SL-SOV-030		SL-ADV-030		
CA-HV-476	4	CA-HV-874	SL-SOV-036A		SL-ADV-036A		
CA-HV-477	4	CA-HV-875	SL-SOV-029A		SL-ADV-029A		SEE NOTE 3
CA-HV-478	4	CA-HV-876	SL-SOV-028A		SL-ADV-028A		
CA-HV-479	4	CA-HV-877	SL-SOV-027A		SL-ADV-027A		
CA-HV-480	19	CA-HV-878	CH-SOV-031A-1	CA-CKV-879	CH-SOV-031A-2	CH-ADV-031A	
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CA-HV-483	19	CA-HV-884	SL-SOV-025A-1	CA-CKV-885	SL-SOV-025A-2	SL-ADV-025A	
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CA-HV-488	4	CA-HV-890	SL-SOV-0				

SIZE	DRAWING NO.	SHEET	REV.
E	BR 2192	1 of 2	11

REFERENCE DRAWINGS

[illegible]

FOR SUPPLEMENTARY NOTES SEE DWG. 2117-7A

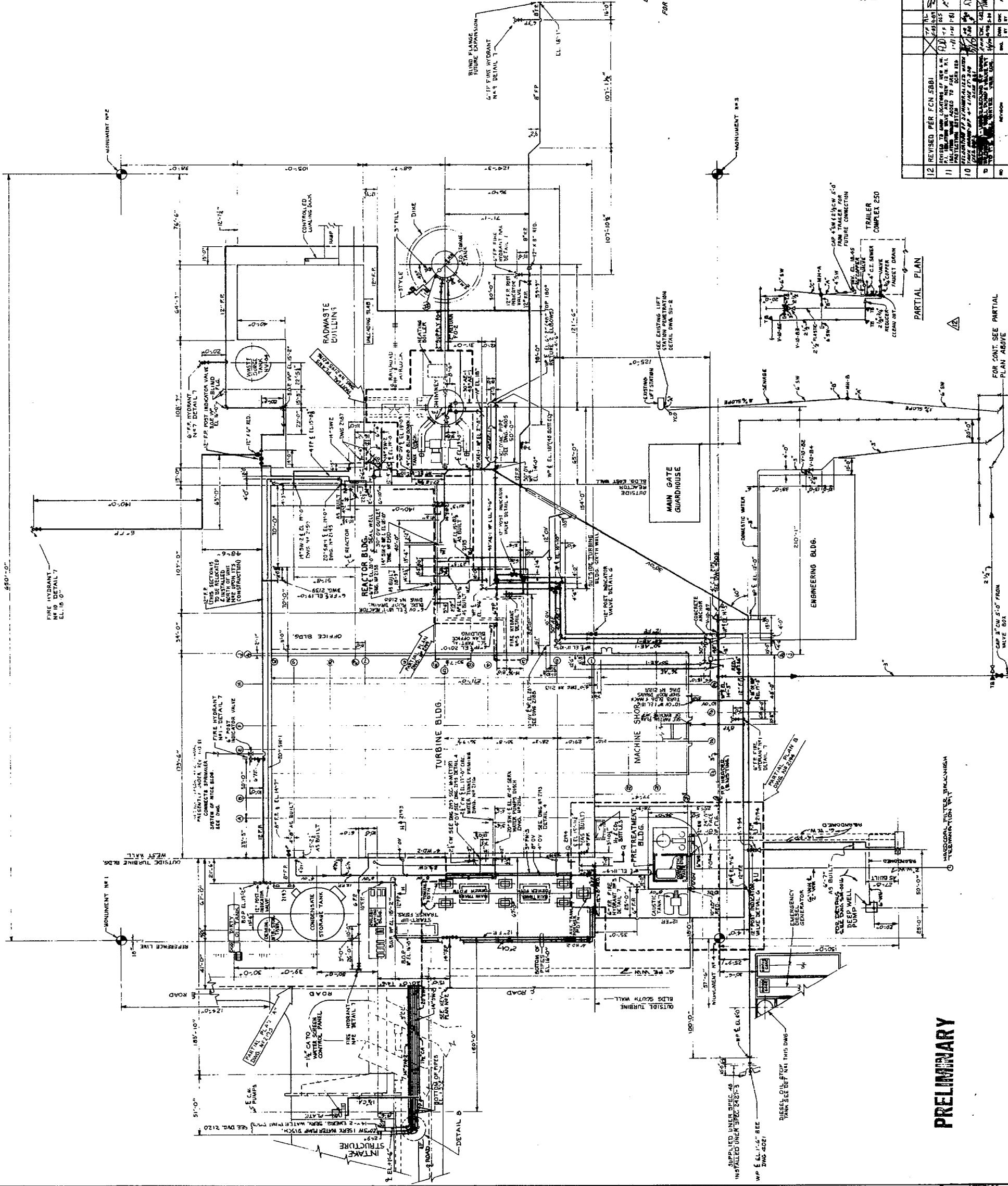
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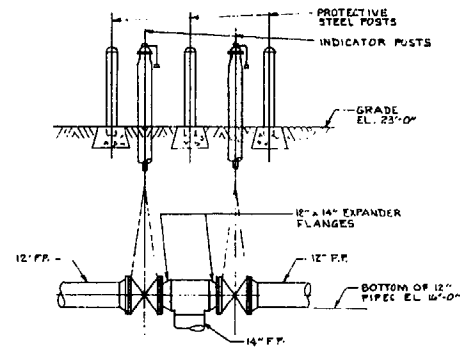
WORK THIS DWG. WITH DWGS.
2193, 2194, 2195, & 2196

SUPERSEDES BURNS & ROE
DWG. 2192-8

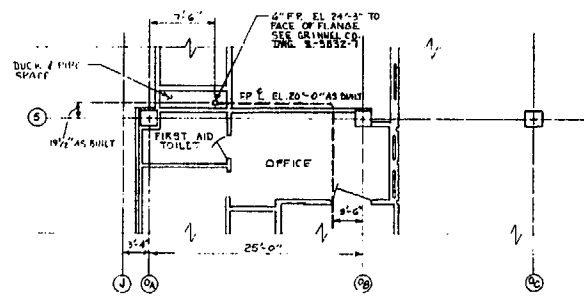
WFO-22-97										JERSEY CENTRAL POWER & LIGHT CO. GENERATION DEPARTMENT										COMPOSITE YARD PIPING KEY PLAN										REF E										TOLERANCE UNLESS NOTED										SCALES 1" = 30'-0"										SHEET NO										1 OF 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PRELIMINARY

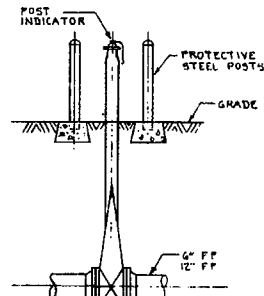




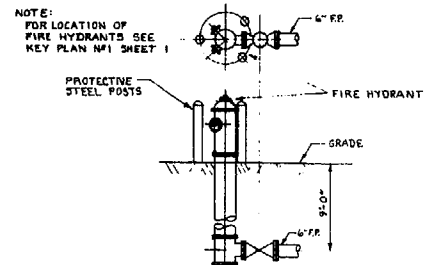
DETAIL 5
SCALE 3/8" = 1'-0"



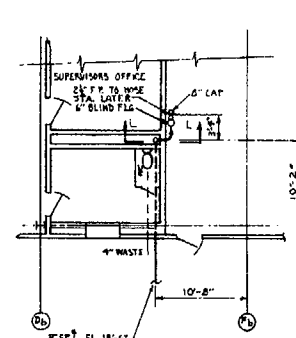
PARTIAL PLAN OF OFFICE BUILDING FIRST FLOOR EL. 23'-6"
SCALE 1/8" = 1'-0"



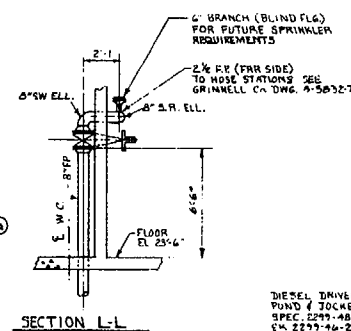
DETAIL 6
SCALE 1/4" = 1'-0"



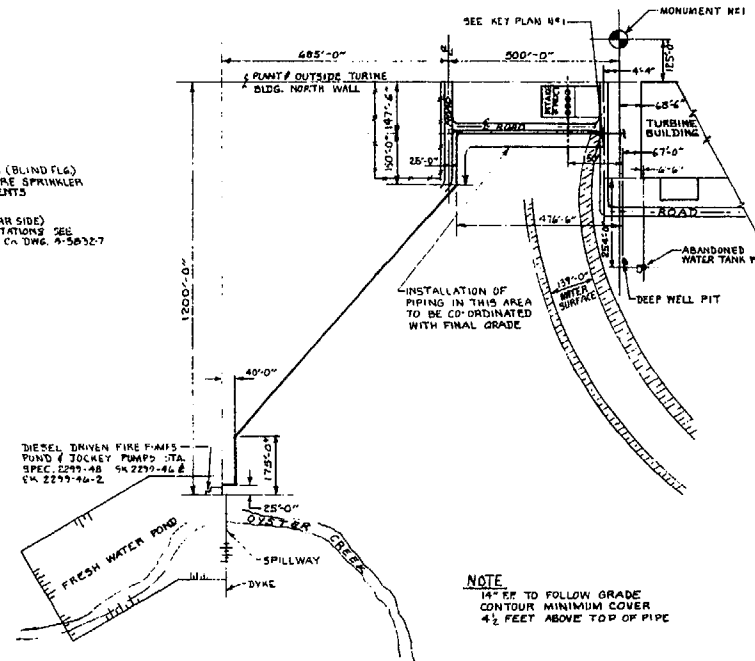
DETAIL 7
SCALE NONE



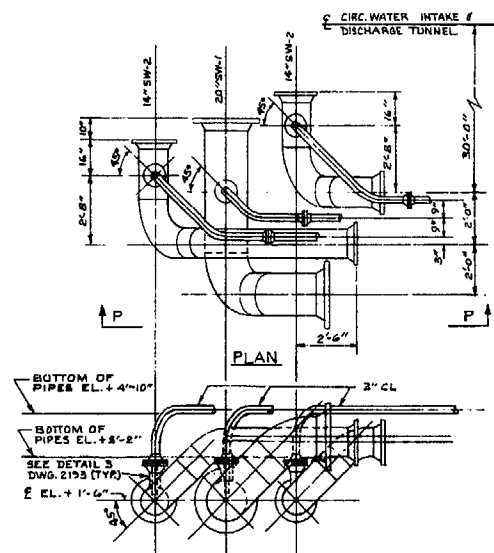
PARTIAL PLAN OF MACHINE SHOP
SCALE 1/8" = 1'-0"



SECTION L-L

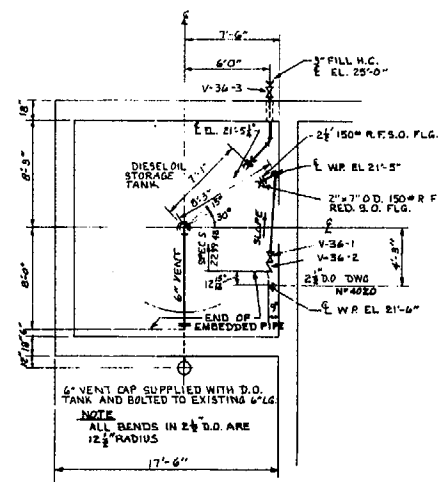


KEY PLAN N°2
SCALE 1" = 200'-0"



PLAN

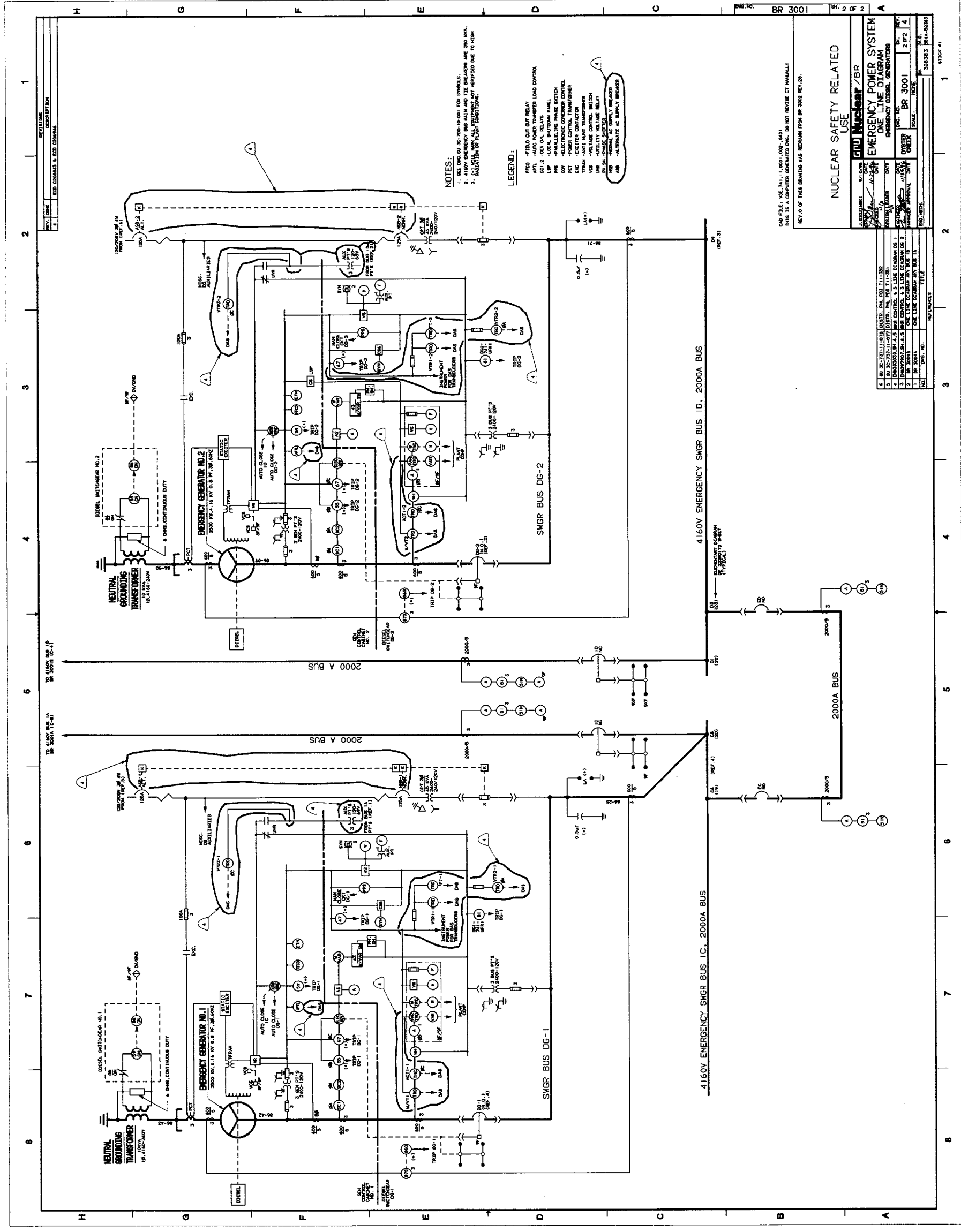
DETAIL 8
SCALE 3/8" = 1'-0"

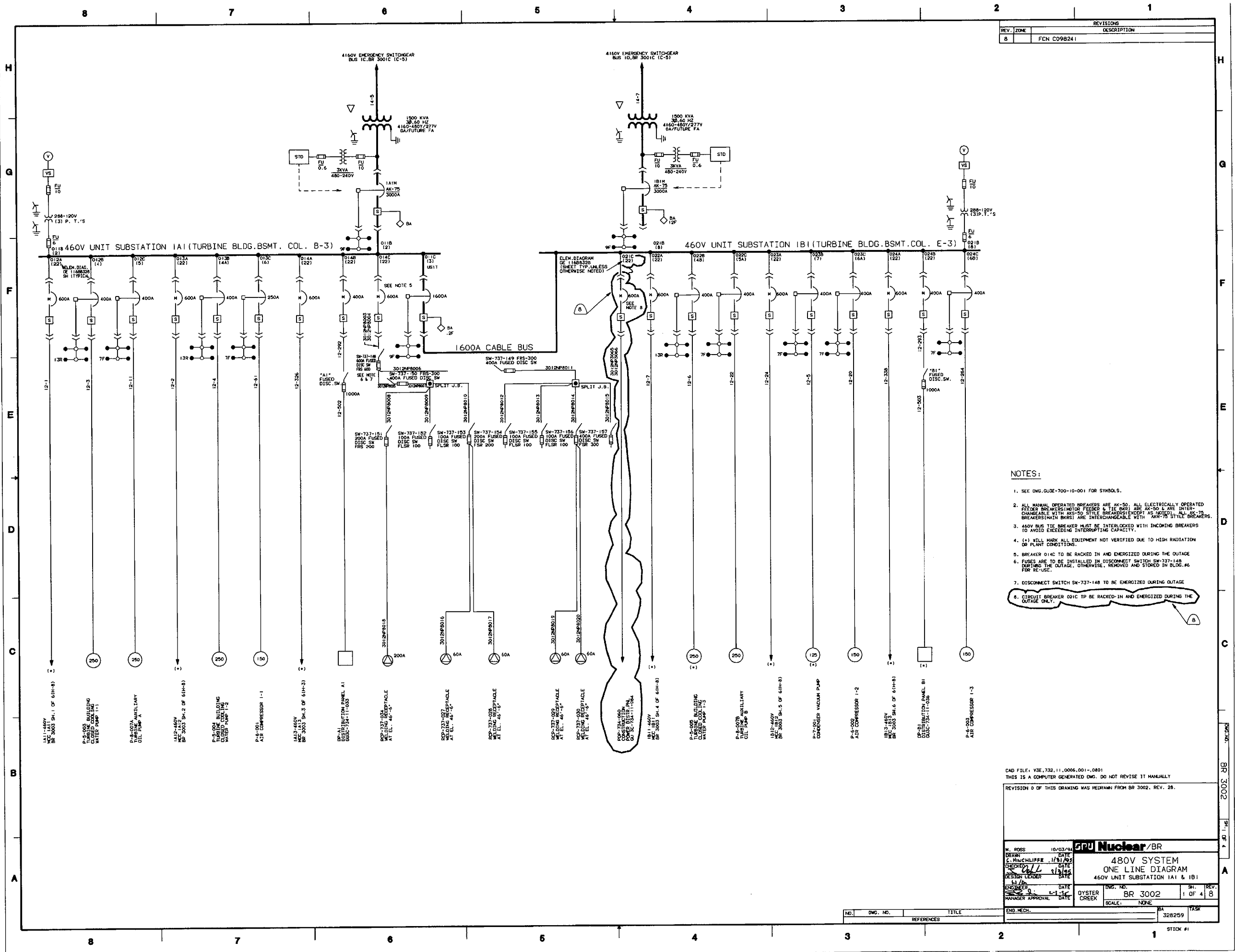


DETAIL 11
SCALE 3/8" = 1'-0"

SUPERSEDES BURNS & ROE
DWG. 2192-8

JERSEY CENTRAL POWER & LIGHT CO. GENERATION DEPARTMENT			
COMPOSITE YARD PIPING KEY PLAN			
0	REVISION	DATE	BY
1	ADDED HYDRANT #1 & #2	10/1/52	W.D. 2293
2	ADDED HYDRANT #3	10/1/52	W.D. 2293
3	ADDED HYDRANT #4	10/1/52	W.D. 2293
4	ADDED HYDRANT #5	10/1/52	W.D. 2293
5	ADDED HYDRANT #6	10/1/52	W.D. 2293
6	ADDED HYDRANT #7	10/1/52	W.D. 2293
7	ADDED HYDRANT #8	10/1/52	W.D. 2293
8	ADDED HYDRANT #9	10/1/52	W.D. 2293
9	ADDED HYDRANT #10	10/1/52	W.D. 2293
10	ADDED HYDRANT #11	10/1/52	W.D. 2293
11	ADDED HYDRANT #12	10/1/52	W.D. 2293
12	ADDED HYDRANT #13	10/1/52	W.D. 2293
13	ADDED HYDRANT #14	10/1/52	W.D. 2293
14	ADDED HYDRANT #15	10/1/52	W.D. 2293
15	ADDED HYDRANT #16	10/1/52	W.D. 2293
16	ADDED HYDRANT #17	10/1/52	W.D. 2293
17	ADDED HYDRANT #18	10/1/52	W.D. 2293
18	ADDED HYDRANT #19	10/1/52	W.D. 2293
19	ADDED HYDRANT #20	10/1/52	W.D. 2293
20	ADDED HYDRANT #21	10/1/52	W.D. 2293
21	ADDED HYDRANT #22	10/1/52	W.D. 2293
22	ADDED HYDRANT #23	10/1/52	W.D. 2293
23	ADDED HYDRANT #24	10/1/52	W.D. 2293
24	ADDED HYDRANT #25	10/1/52	W.D. 2293
25	ADDED HYDRANT #26	10/1/52	W.D. 2293
26	ADDED HYDRANT #27	10/1/52	W.D. 2293
27	ADDED HYDRANT #28	10/1/52	W.D. 2293
28	ADDED HYDRANT #29	10/1/52	W.D. 2293
29	ADDED HYDRANT #30	10/1/52	W.D. 2293
30	ADDED HYDRANT #31	10/1/52	W.D. 2293
31	ADDED HYDRANT #32	10/1/52	W.D. 2293
32	ADDED HYDRANT #33	10/1/52	W.D. 2293
33	ADDED HYDRANT #34	10/1/52	W.D. 2293
34	ADDED HYDRANT #35	10/1/52	W.D. 2293
35	ADDED HYDRANT #36	10/1/52	W.D. 2293
36	ADDED HYDRANT #37	10/1/52	W.D. 2293
37	ADDED HYDRANT #38	10/1/52	W.D. 2293
38	ADDED HYDRANT #39	10/1/52	W.D. 2293
39	ADDED HYDRANT #40	10/1/52	W.D. 2293
40	ADDED HYDRANT #41	10/1/52	W.D. 2293
41	ADDED HYDRANT #42	10/1/52	W.D. 2293
42	ADDED HYDRANT #43	10/1/52	W.D. 2293
43	ADDED HYDRANT #44	10/1/52	W.D. 2293
44	ADDED HYDRANT #45	10/1/52	W.D. 2293
45	ADDED HYDRANT #46	10/1/52	W.D. 2293
46	ADDED HYDRANT #47	10/1/52	W.D. 2293
47	ADDED HYDRANT #48	10/1/52	W.D. 2293
48	ADDED HYDRANT #49	10/1/52	W.D. 2293
49	ADDED HYDRANT #50	10/1/52	W.D. 2293
50	ADDED HYDRANT #51	10/1/52	W.D. 2293
51	ADDED HYDRANT #52	10/1/52	W.D. 2293
52	ADDED HYDRANT #53	10/1/52	W.D. 2293
53	ADDED HYDRANT #54	10/1/52	W.D. 2293
54	ADDED HYDRANT #55	10/1/52	W.D. 2293
55	ADDED HYDRANT #56	10/1/52	W.D. 2293
56	ADDED HYDRANT #57	10/1/52	W.D. 2293
57	ADDED HYDRANT #58	10/1/52	W.D. 2293
58	ADDED HYDRANT #59	10/1/52	W.D. 2293
59	ADDED HYDRANT #60	10/1/52	W.D. 2293
60	ADDED HYDRANT #61	10/1/52	W.D. 2293
61	ADDED HYDRANT #62	10/1/52	W.D. 2293
62	ADDED HYDRANT #63	10/1/52	W.D. 2293
63	ADDED HYDRANT #64	10/1/52	W.D. 2293
64	ADDED HYDRANT #65	10/1/52	W.D. 2293
65	ADDED HYDRANT #66	10/1/52	W.D. 2293
66	ADDED HYDRANT #67	10/1/52	W.D. 2293
67	ADDED HYDRANT #68	10/1/52	W.D. 2293
68	ADDED HYDRANT #69	10/1/52	W.D. 2293
69	ADDED HYDRANT #70	10/1/52	W.D. 2293
70	ADDED HYDRANT #71	10/1/52	W.D. 2293
71	ADDED HYDRANT #72	10/1/52	W.D. 2293
72	ADDED HYDRANT #73	10/1/52	W.D. 2293
73	ADDED HYDRANT #74	10/1/52	W.D. 2293
74	ADDED HYDRANT #75	10/1/52	W.D. 2293
75	ADDED HYDRANT #76	10/1/52	W.D. 2293
76	ADDED HYDRANT #77	10/1/52	W.D. 2293
77	ADDED HYDRANT #78	10/1/52	W.D. 2293
78	ADDED HYDRANT #79	10/1/52	W.D. 2293
79	ADDED HYDRANT #80	10/1/52	W.D. 2293
80	ADDED HYDRANT #81	10/1/52	W.D. 2293
81	ADDED HYDRANT #82	10/1/52	W.D. 2293
82	ADDED HYDRANT #83	10/1/52	W.D. 2293
83	ADDED HYDRANT #84	10/1/52	W.D. 2293
84	ADDED HYDRANT #85	10/1/52	W.D. 2293
85	ADDED HYDRANT #86	10/1/52	W.D. 2293
86	ADDED HYDRANT #87	10/1/52	W.D. 2293
87	ADDED HYDRANT #88	10/1/52	W.D. 2293
88	ADDED HYDRANT #89	10/1/52	W.D. 2293
89	ADDED HYDRANT #90	10/1/52	W.D. 2293
90	ADDED HYDRANT #91	10/1/52	W.D. 2293
91	ADDED HYDRANT #92	10/1/52	W.D. 2293
92	ADDED HYDRANT #93	10/1/52	W.D. 2293
93	ADDED HYDRANT #94	10/1/52	W.D. 2293
94	ADDED HYDRANT #95	10/1/52	W.D. 2293
95	ADDED HYDRANT #96	10/1/52	W.D. 2293
96	ADDED HYDRANT #97	10/1/52	W.D. 2293
97	ADDED HYDRANT #98	10/1/52	W.D. 2293
98	ADDED HYDRANT #99	10/1/52	W.D. 2293
99	ADDED HYDRANT #100	10/1/52	W.D. 2293





REVISIONS	
REV.	DESCRIPTION
8	FCN C09B241

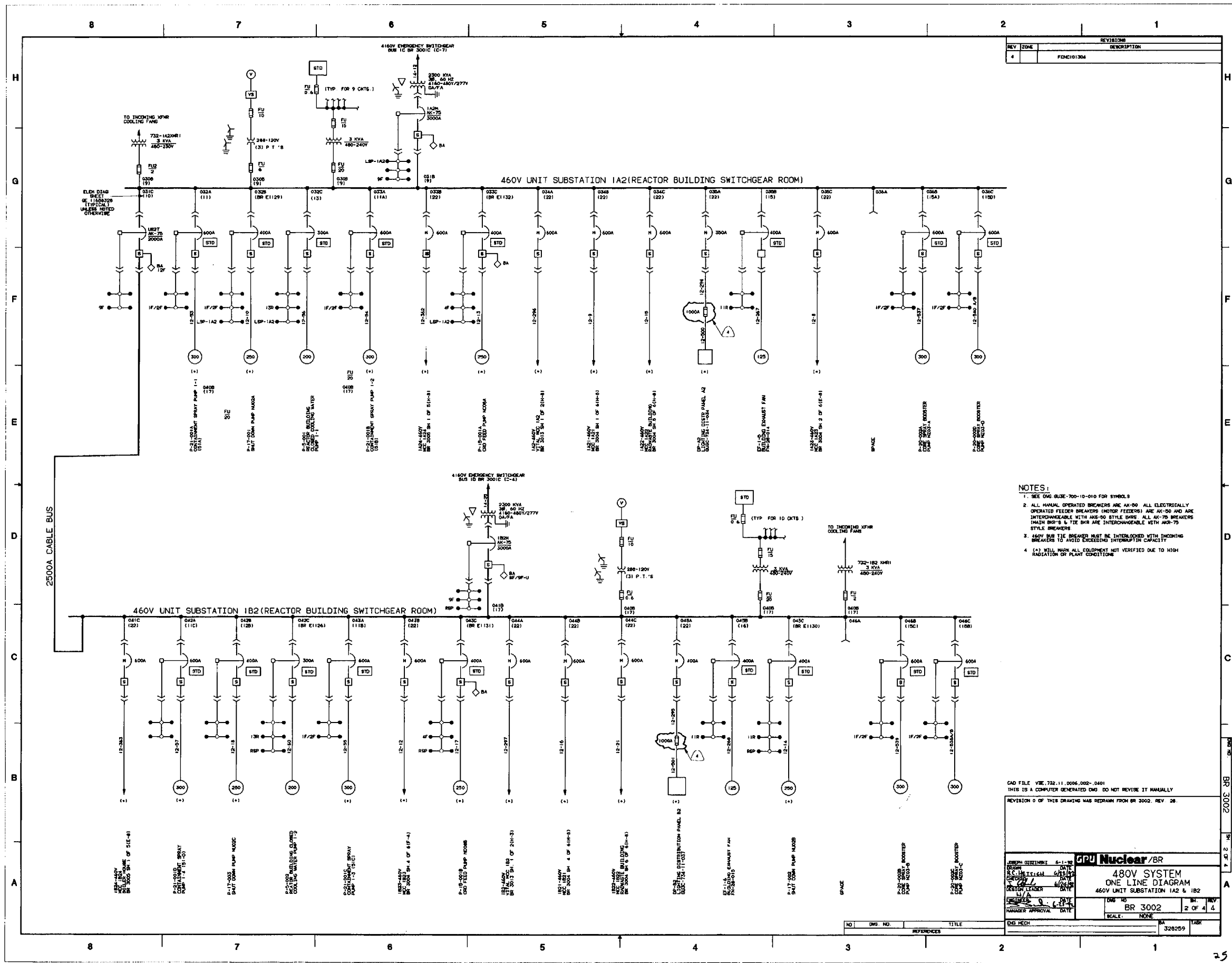
- NOTES:
- SEE DWG. 003E-700-10-001 FOR SYMBOLS.
 - ALL MANUAL OPERATED BREAKERS ARE AK-50. ALL ELECTRICALLY OPERATED FEEDER BREAKERS (MOTOR FEEDER & TIE BUS) ARE AK-50 & ARE INTER-CHANGEABLE WITH AK-50 STYLE BREAKERS (EXCEPT AS NOTED). ALL AK-75 BREAKERS (MAIN BKRS) ARE INTERCHANGEABLE WITH AK-75 STYLE BREAKERS.
 - 460V BUS TIE BREAKER MUST BE INTERLOCKED WITH INCOMING BREAKERS TO AVOID EXCEEDING INTERRUPTING CAPACITY.
 - (*) WILL MARK ALL EQUIPMENT NOT VERIFIED DUE TO HIGH RADIATION OR PLANT CONDITIONS.
 - BREAKER 014C TO BE RACKED IN AND ENERGIZED DURING THE OUTAGE.
 - FUSES ARE TO BE INSTALLED IN DISCONNECT SWITCH SW-737-148 DURING THE OUTAGE, OTHERWISE, REMOVED AND STORED IN BLDG. #6 FOR RE-USE.
 - DISCONNECT SWITCH SW-737-148 TO BE ENERGIZED DURING OUTAGE.
 - CIRCUIT BREAKER 021C TP BE RACKED-IN AND ENERGIZED DURING THE OUTAGE ONLY.

CAD FILE: V02.732.11.0006.001-0801
THIS IS A COMPUTER GENERATED DWG. DO NOT REVISE IT MANUALLY.
REVISION 0 OF THIS DRAWING WAS REDRAWN FROM BR 3002, REV. 28.

M. ROSS 10/03/94 DATE C. MUNCHLIPPE 11/01/95 DATE CHECKED DATE DESIGN LEADER DATE ENGINEER DATE MANAGER APPROVAL DATE		GPU Nuclear/BR 480V SYSTEM ONE LINE DIAGRAM 460V UNIT SUBSTATION 1A1 & 1B1 DWG. NO. BR 3002 SCALE: NONE SH. 1 OF 4 REV. 8 TASK 328259	
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NO.	DWG. NO.	TITLE	REFERENCES

COMMENTS: 1. SEE DWG. 003E-700-10-001 FOR SYMBOLS.
2. ALL MANUAL OPERATED BREAKERS ARE AK-50. ALL ELECTRICALLY OPERATED FEEDER BREAKERS (MOTOR FEEDER & TIE BUS) ARE AK-50 & ARE INTER-CHANGEABLE WITH AK-50 STYLE BREAKERS (EXCEPT AS NOTED). ALL AK-75 BREAKERS (MAIN BKRS) ARE INTERCHANGEABLE WITH AK-75 STYLE BREAKERS.
3. 460V BUS TIE BREAKER MUST BE INTERLOCKED WITH INCOMING BREAKERS TO AVOID EXCEEDING INTERRUPTING CAPACITY.
4. (*) WILL MARK ALL EQUIPMENT NOT VERIFIED DUE TO HIGH RADIATION OR PLANT CONDITIONS.
5. BREAKER 014C TO BE RACKED IN AND ENERGIZED DURING THE OUTAGE.
6. FUSES ARE TO BE INSTALLED IN DISCONNECT SWITCH SW-737-148 DURING THE OUTAGE, OTHERWISE, REMOVED AND STORED IN BLDG. #6 FOR RE-USE.
7. DISCONNECT SWITCH SW-737-148 TO BE ENERGIZED DURING OUTAGE.
8. CIRCUIT BREAKER 021C TP BE RACKED-IN AND ENERGIZED DURING THE OUTAGE ONLY.



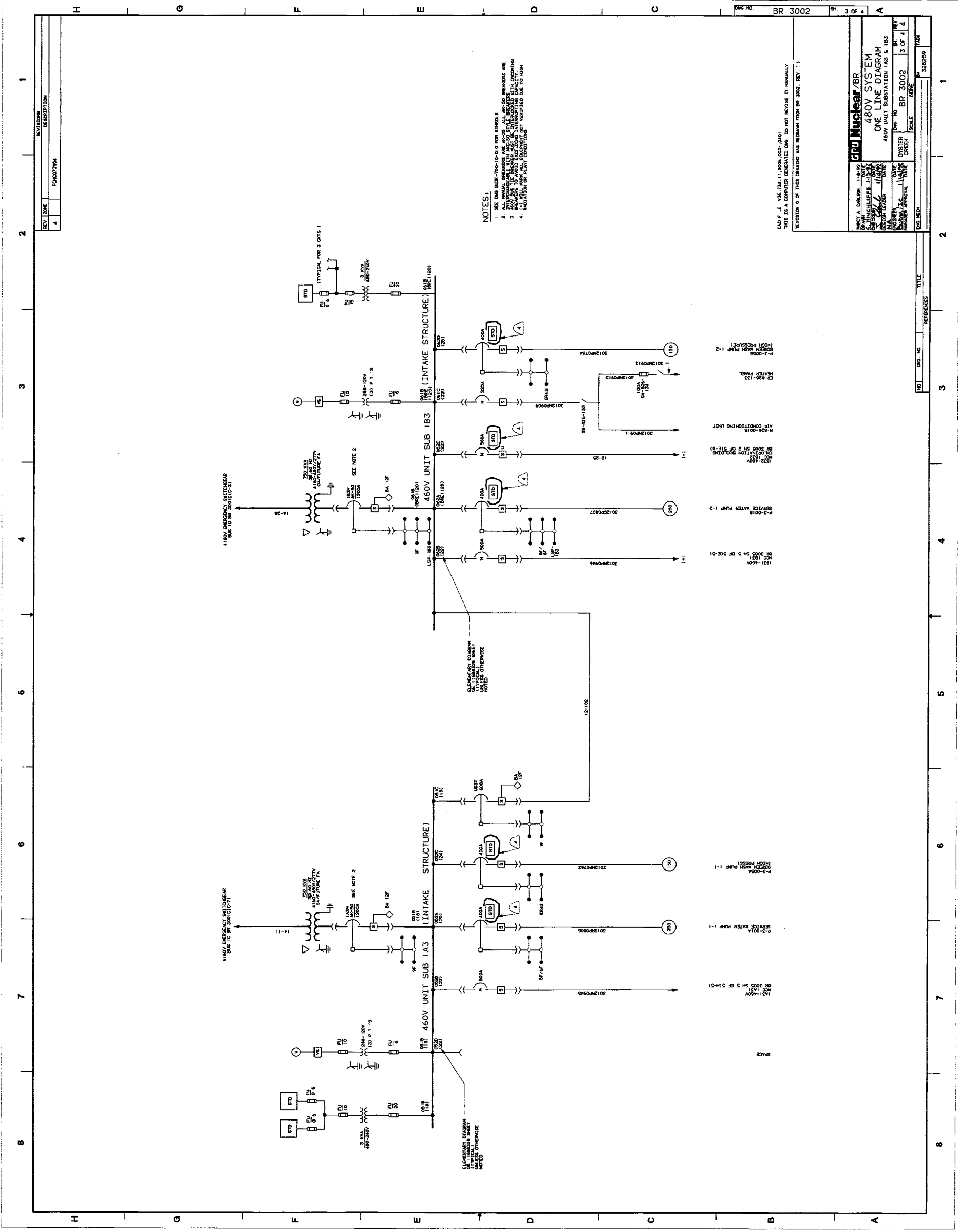
REVISIONS	
REV	DESCRIPTION
4	FOR 1000A

- NOTES:
- SEE DWG 0002-10-010 FOR SYMBOLS
 - ALL MANUAL OPERATED BREAKERS ARE AN-80. ALL ELECTRICALLY OPERATED FEEDER BREAKERS (NOTED FEEDERS) ARE AN-80 AND ARE INTERCHANGEABLE WITH AN-80 STYLE BARS. ALL AN-70 BREAKERS (MAIN BARS & TIE BARS) ARE INTERCHANGEABLE WITH AN-70 STYLE BREAKERS.
 - 480V BUS TIE BREAKER MUST BE INTERLOCKED WITH INCOMING BREAKERS TO AVOID EXCEEDING INTERRUPTING CAPACITY.
 - (*) WILL MARK ALL EQUIPMENT NOT VERIFIED DUE TO HIGH RADIATION OR PLANT CONDITIONS.

CAO FILE: V3E, 732-11, 0006, 002-0401
THIS IS A COMPUTER GENERATED DWG. DO NOT REVISE IT MANUALLY.

REVISION 0 OF THIS DRAWING WAS REDRAWN FROM BR 3002, REV. 20.

DESIGNED BY	6-1-92	BR 3002
DRAWN BY	6-1-92	2 OF 4
CHECKED BY	6-1-92	4
APPROVED BY	6-1-92	
DATE	6-1-92	
SCALE	NONE	
DWG NO.	BR 3002	
REV	2 OF 4	
DATE	6-1-92	
SCALE	NONE	
DWG NO.	BR 3002	
REV	2 OF 4	
DATE	6-1-92	
SCALE	NONE	



- NOTES:
- 1. SEE DRAWING 700-10-010 FOR SYMBOLS.
 - 2. ALL MANUAL BREAKERS ARE AC-25. ALL AC-30 BREAKERS ARE AC-30.
 - 3. ALL BREAKERS ARE TO BE INSTALLED IN THE MANNER SHOWN IN THE DRAWING.
 - 4. ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE OREGON ELECTRICAL CODE (OEC).

THIS IS A COMPUTER GENERATED DRAWING. IT MAY NOT BE REVISED MANUALLY. REVISIONS OF THIS DRAWING WILL BE MADE BY THE DESIGNER.

BR 3002		3 OF 4	A
480V SYSTEM		ONE LINE DIAGRAM	
460V UNIT SUBSTATION 1A3 & 1B3		3 OF 4	
OYSTER CREEK		BR 3002	
SCALE: 1/8" = 1'-0"		328259	