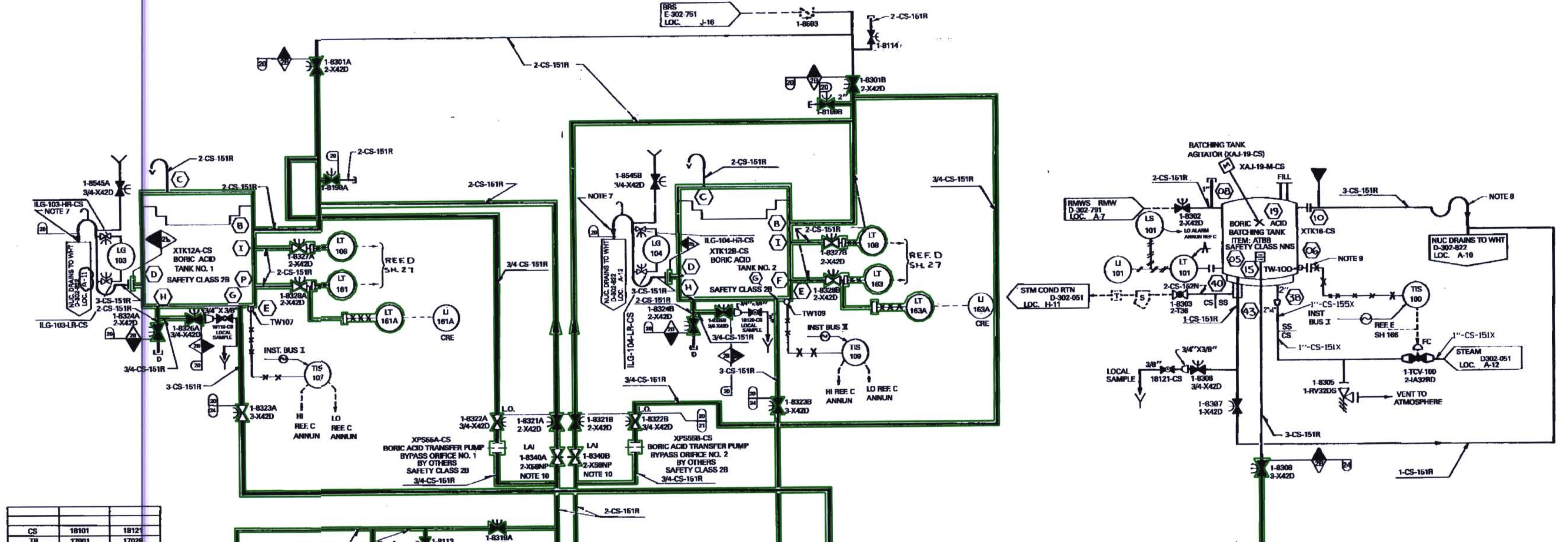

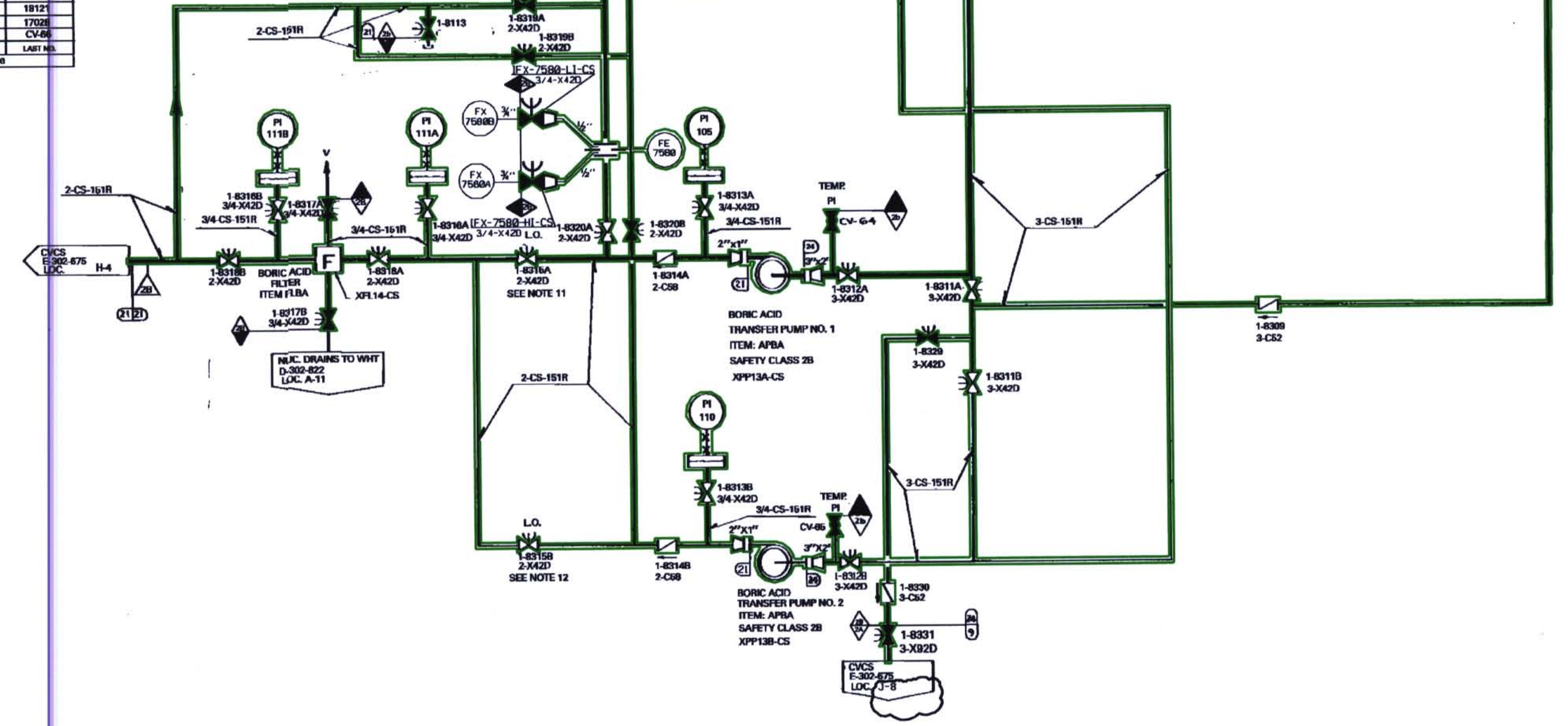

CS	18101	18121
TR	17001	17028
CV	CV-1	CV-86
SYSTEM SUFFIX	FIRST NO.	LAST NO.
VALVE NUMBERING		

NOTES:

1. THIS DRAWING IS BASED UPON DWG. 114E073, SHEET 5 OF 5, REVISION 15 ("BASE DRAWING") OF WESTINGHOUSE ELECTRIC CORPORATION, NUCLEAR ENERGY SYSTEMS, PITTSBURGH, PA WHO IS SOLEY RESPONSIBLE FOR THE ACCURACY OR THE RELIABILITY OF THE DESIGN INFORMATION SET FORTH IN THE BASE DRAWING.
2. FOR ALPHA REFERENCES, SEE DWG. E-302-002. FLOW DIAGRAM LEGEND.
3. FOR CONVENTIONAL PIPING SPECIFICATIONS, SEE GAI SPECIFICATION SP-329-4461-00, PAGE 29, (WESTINGHOUSE PIPE CLASS CONVERSION TO ENGINEER'S PIPE LINE SPECIFICATION).
4.
5.
6. ALL EQUIPMENT AND PIPING SHOWN TO BE LOCATED IN AREA MAINTAINED AT CONTROLLED TEMPERATURE.
7. LOWER LOOP TO EXTEND 12" BELOW OVERFLOW CONNECTION AND UPPER LOOP TO EXTEND 6" BELOW DIAPHRAGM FLANGE. LOCATE SYPHON BREAK VENT ON TOP OF UPPER LOOP.
8. LOOP SEAL TO EXTEND 12" BELOW AND ABOVE PIPE END ELEVATION.
9. TEMPERATURE WELL WITH FLANGE PROVIDED.
10. VALVE IS LOCKED IN POSITION DURING PREOPERATIONAL TESTING TO LIMIT PUMP RUNOUT DURING BATCH TRANSFER OPERATION.
11. PRIOR TO THE CLOSING OF VALVE 1-8315A, ENSURE THAT THE "B" BORIC ACID TRANSFER PUMP IS ALIGNED TO THE "B" BORIC ACID TANK.
12. PRIOR TO THE CLOSING OF VALVE 1-8315B, ENSURE THAT THE "A" BORIC ACID TRANSFER PUMP IS ALIGNED TO THE "A" BORIC ACID TANK.

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HYDROTEST TEMP. 40°F (MIN)

	NORMAL PSIG	NORMAL °F	UPSET PSIG	UPSET °F	DURATION	HYDRO
24	45	115	150	220	<1%	190
21	45	115	140	220	<1%	190
20	ATM.	75	ATM.	220	<1%	20
9	15	115	170	300	<1%	2.15

DESIGN DATA

1/4" = 1'-0" 0' 5' 10' 15' 20'

THIS IS A NUCLEAR SAFETY RELATED DOCUMENT. NO DEVIATION SHALL BE INITIATED OR PERFORMED WITHOUT PRIOR DOCUMENTATION AND WRITTEN APPROVAL

PLEX Drawing TR00160-002

FSAR Fig. 9.3-16 SH. 5

SOUTH CAROLINA ELECTRIC & GAS COMPANY

VIRGIL C. SUMMER NUCLEAR STATION

PIPING SYSTEM FLOW DIAGRAM
CHEMICAL AND VOLUME CONTROL

DESIGN ENGINEERING

DRAWING LEGIBILITY CLASS 1
SCE&G CAD ENHANCED

NO.	DATE	BY	REVISION	CHD. BY	LC APPROVAL
9	[illegible]	JMR	REVISED PER CGSS-97-0569	LEK	MGR
8	[illegible]	ACI	REVISED PER MRF-2151	MGR	JMG
7	[illegible]	SRM	REVISED PER MRF-21645	RHM	RLJ

SRM RHM RLJ

E-302-677 9