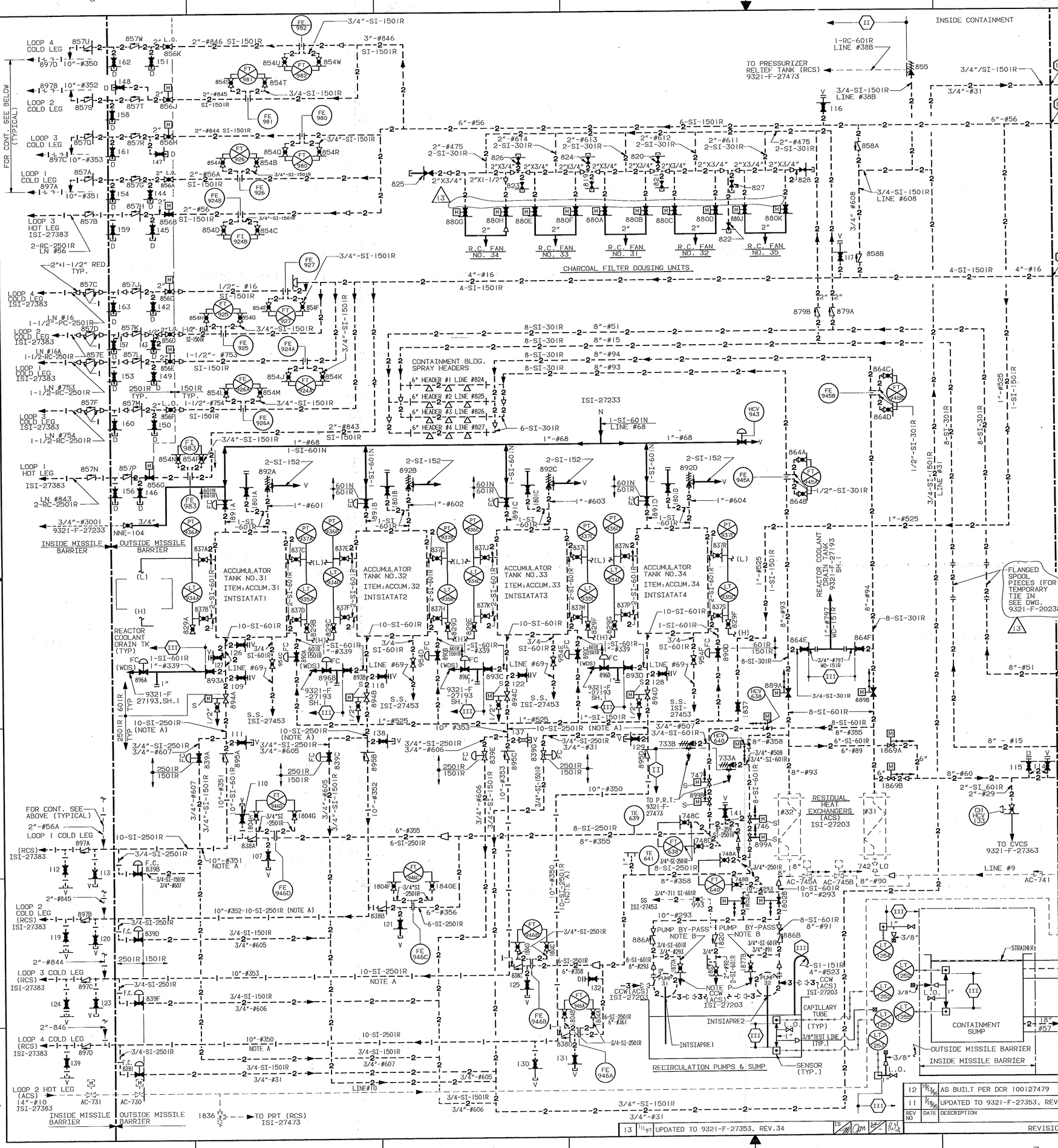

REFERENCES

1. PROCESS FLOW DIAGRAM (W) DWG. 541 F 424
2. DEFINITION OF SYMBOLS
   (W) E. SPEC. G-675176 REV.3
   (W) E. SPEC. G-675164 REV.0
3. INSTALLATION OF INSTRUMENTATION
   (W) PROC. SPEC. CAP. 294367 REV.1
4. MATERIAL SPEC.PIPE AND FITTINGS
   (W) E. SPEC. G-569866 REV.4 AND
   (W) E. SPEC. G-676398 REV.3

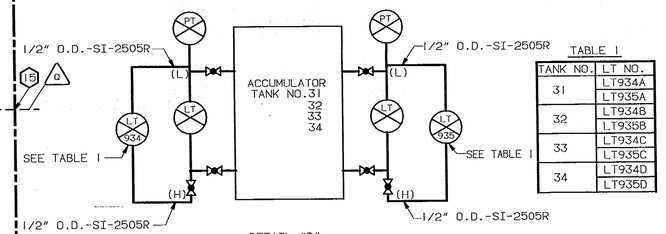

TABLE I

TANK NO.	LT NO.
31	LT934A
	LT935A
32	LT934B
	LT935B
33	LT934C
	LT935C
34	LT934D
	LT935D

DETAIL-"B"
TYP.FOR 4 ACCUM.TANKS
(FOR PHYSICAL HOOK-UP SEE DWG. A210198)

LEGEND:

- [S] TEMPORARY STRAINER
- ELECTRICAL HEAT TRACING
- LLT TRIP ON LOW LEVEL IN BORON INJECTION TANK
- △ CONTAINMENT PENETRATION
- ⬡ SEISMIC CLASSIFICATION
- ⊠ QUICK DISCONNECT FOR TEST
- L.O. LOCKED OPEN
- L.C. LOCKED CLOSED
- F.O. FAIL OPEN
- F.C. FAIL CLOSED
- V LOCAL VENT
- D LOCAL DRAIN
- SENSOR W/ CAPILLARY

NOTES:

A. PIPING IS SCHEDULE 140
B. LOCATE IN HIGH SIDE OF PIPE IN LOCAL HIGH POINT
C.
D. ORIFICE IS SUPPLIED WITH PUMP PACKAGE
E. MOUNT WITH STEM HORIZONTAL
F.
G.
H. PROVISION FOR A SECOND SUMP LINE
J.
K. BALANCE PISTON FLOW LINE FOR S.I. PUMP 32 MUST BE INSIDE VALVES 887A AND 887B
L. LOCATE AT LOW POINT OF PIPE WORK
M. INSTALL VALVES FOR VERTICAL DISCHARGE
N. FLUSH LINE TO BE INSTALLED AS CLOSE TO VALVE INLET AS POSSIBLE
P. LINES TO BE DIRECTED TO THIRD SECTION OF THE SUMP (SECTION CONTAINING RECIRC. PUMPS)
R. IVSWS OR LEAKOFF CONNECTIONS ON THE FOLLOWING VALVES 850A, 850B, 850C, 885A, 866A & B ARE PLUGGED OR CAPPED
S. ALL VALVE NOS. ARE PRECEDED BY "SI" AS THE SYSTEM DESIGNATION EXCEPT AS NOTED

REFERENCE DRAWINGS

9321-F-27503	SIS	SAFETY INJECTION SYSTEM SHEET 2
27193	WDS	WASTE DISPOSAL SYSTEM SHEET 1 - CONTAINMENT
27203	ACS	AUXILIARY COOLANT SYSTEM - INSIDE CONTAINMENT
27513	ACS	AUXILIARY COOLANT SYSTEM IN PAB & FSB - SHEET 2
27363	CVCS	CHEMICAL & VOLUME CONTROL SYSTEM SHEET 1
27373	CVCS	CHEMICAL & VOLUME CONTROL SYSTEM SHEET 2
27383	RCS	REACTOR COOLANT SYSTEM SHEET 1
27473	RCS	REACTOR COOLANT SYSTEM SHEET 2
27233	N	NITROGEN TO NUCLEAR EQUIPMENT
27243	PW	PRIMARY MAKE-UP WATER
27453	SS	SAMPLING SYSTEM
27463	IVSWS	ISOLATION VALVE SEAL WATER SYSTEM
27273		AUXILIARY STEAM & COND FOR PRIMARY AUX.BLDG.
9321-C-27413		NUCLEAR LINE SCHEDULE

NOTES:

1. (XX) =PENETRATION NUMBER(REF.F.S.A.R.)
2. THIS DWG.SHALL BE USED ONLY FOR DETERMINING THE EXTENT OF THE INSERVICE INSPECTION BOUNDARIES.
3. BOUNDARIES SHOWN TO INCLUDE BOUNDARY VALVES WHERE APPROPRIATE.THE ACTUAL PRESSURE RETAINING I.S.I.BOUNDARIES FOR LEAKAGE AND HYDROSTATIC TESTING EXTEND ONLY TO VALVE INTERNALS THAT COMPRISE THE EFFECTIVE OBTURATOR ASSEMBLY.

NOTE:

ALL PIPING ON THIS DWG. IS SEISMIC CLASS I EXCEPT AS NOTED

WORK THIS DWG. WITH DWG. ISI-27503

REDRAWN FROM (W) DWG.685 J 427 110E364

ISI LEGEND

- -1- -1- - ISI CLASS I
- -2- -2- - ISI CLASS II
- -3- -3- - ISI CLASS III
- C.I.V. - CONTAINMENT ISOLATION VALVE

UNCONTROLLED DRAWING

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CAUTION — Extended use of this drawing copy may result in its inaccuracy due to subsequent design changes and drawing updates

REV NO	DATE	DESCRIPTION	DWN/CHK	DS	DE/DM	PROJ APP.
12	10/13/96	AS BUILT PER DCR 100127479	NV / CLG	MSM	AYE / —	REG
11	7/18/95	UPDATED TO 9321-F-27353, REV.32 AND 33	NV	MSM	6.93 / REG	—
13	7/11/97	UPDATED TO 9321-F-27353, REV.34				

REVISIONS

ISI DRAWING
THIS DRAWING WAS CREATED FROM 9321-F-27353.

INDIAN POINT NO.3 NUCLEAR POWER PLANT

FLOW DIAGRAM
SAFETY INJECTION SYSTEM
SHEET NO.1

DWN | CHK'D | DES SUPV | DISCIPLINE ENG | DISCIPLINE MGR. | PROJ APPROVAL | DATE

New York Power Authority

SCALE | DWG NO ISI-27353 | REV 13 | SHEET

Docket # 50-286
Accession # 00365025304
Date 1/18/2000 of Ltr
Regulatory Docket File

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