
[illegible]

WESTINGHOUSE ELECTRIC CORPORATION

TURBINE BUILDING & HEATER BAY

GENERAL ARRANGEMENT

OPERATING FLOOR - PLAN AT ELEV. 53'-0"

 **Entergy**
Nuclear Northeast

FOR

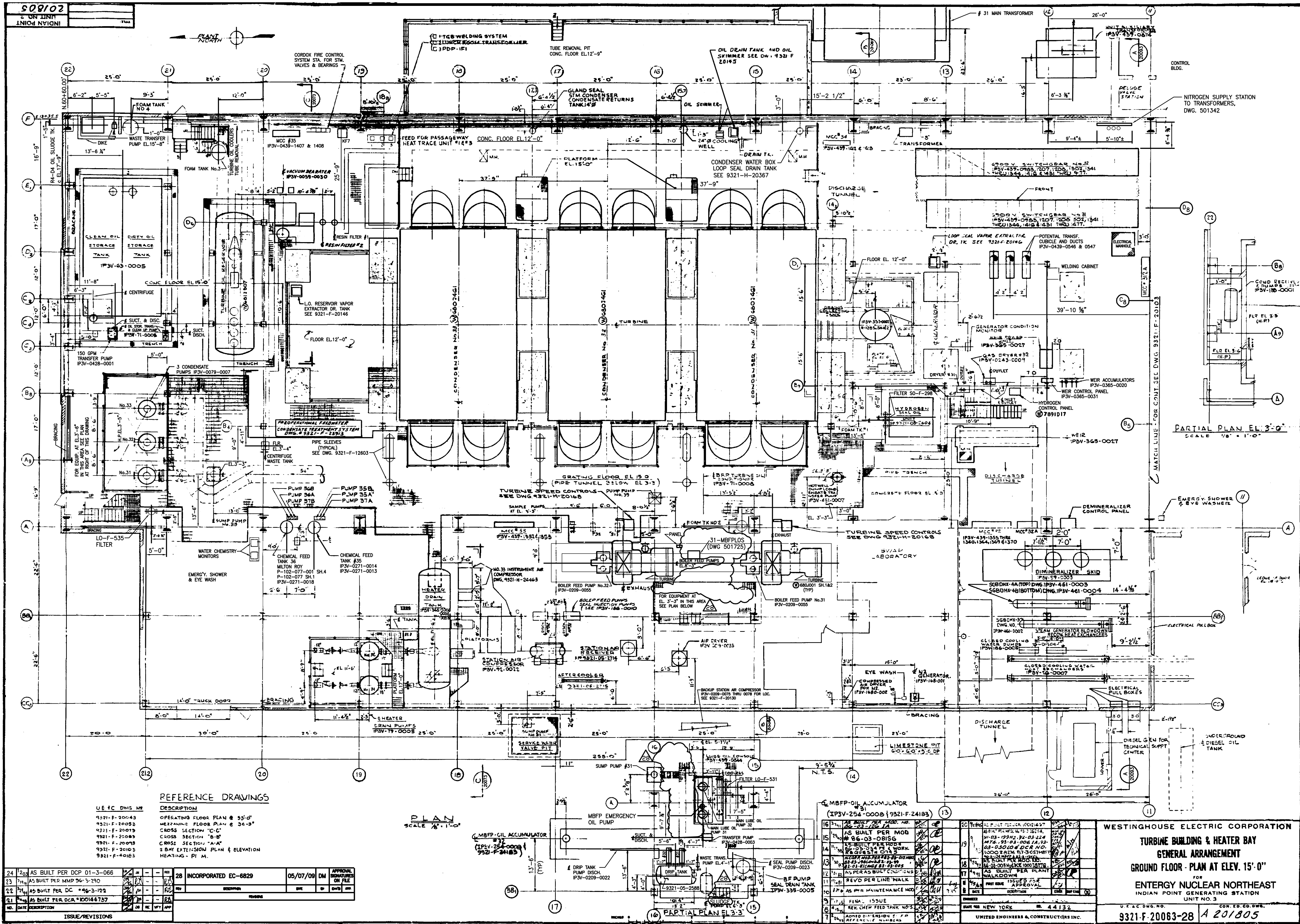
INDIAN POINT GENERATING STATION

UNIT NO. 3

U. S. & C. B.W.G. NO. 9321-F-20043-8

FOR E.S. CO. B.W.G. NO. A 201803





REFERENCE DRAWINGS

U.E.C. DWG. NO.	DESCRIPTION
9321-F-20043	OPERATING FLOOR PLAN @ 35'-0"
9321-F-20053	MEZANINE FLOOR PLAN @ 36'-0"
9321-F-20079	CROSS SECTION "C-C"
9321-F-20083	CROSS SECTION "B-B"
9321-F-20093	CROSS SECTION "A-A"
9321-F-20103	3 DAY EXTENSION PLAN & ELEVATION
9321-F-20103	HEATING - P.I.M.

PLAN
SCALE 1/8" = 1'-0"

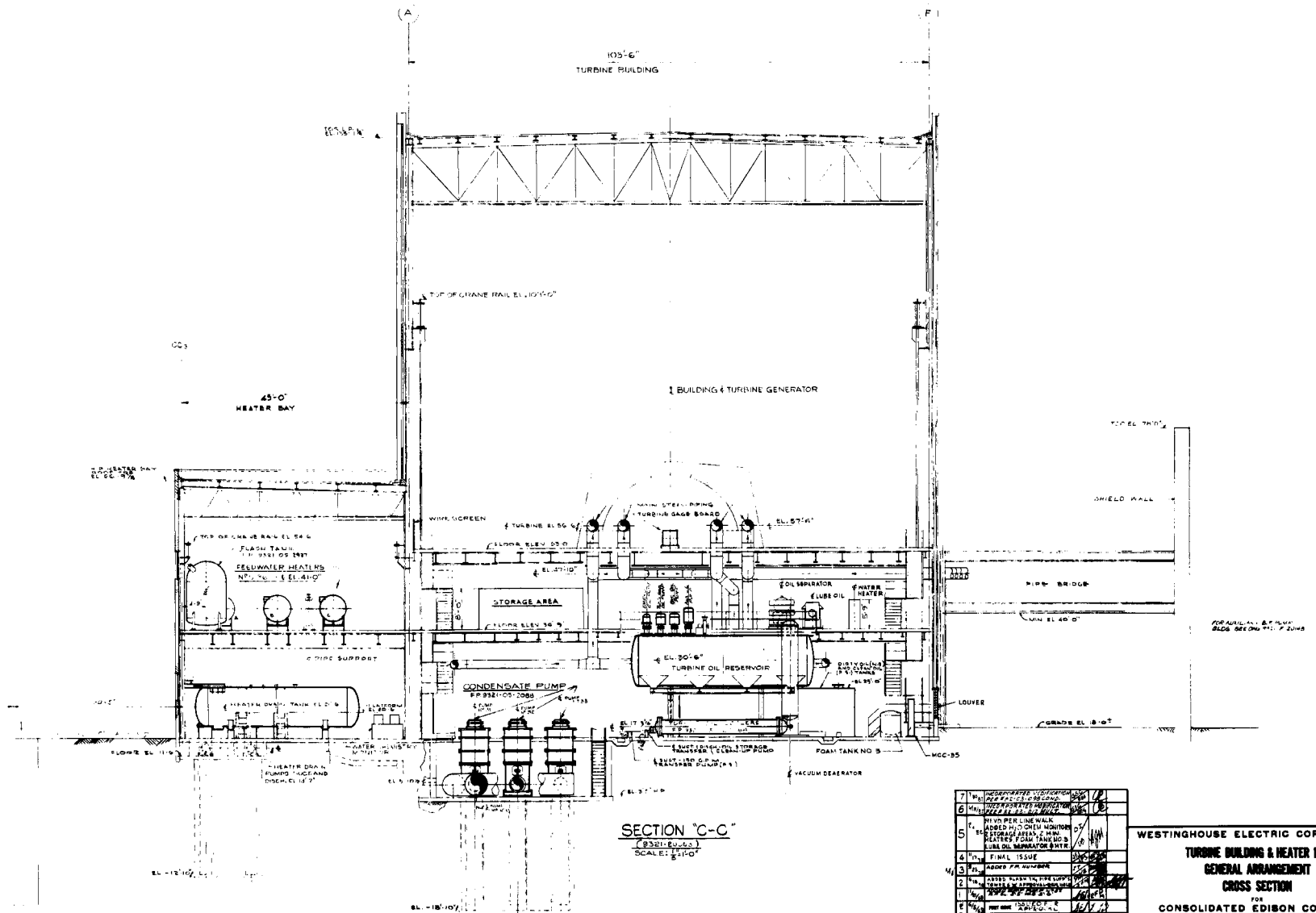
NO.	DATE	DESCRIPTION	ISSUE/REVISIONS
24	2003	AS BUILT PER DCP 01-3-066	
23	7/03	AS BUILT PER MPP 06-3-290	
22	7/03	AS BUILT PER DC 06-3-122	
21	7/03	AS BUILT PER DCA 000144757	
20	7/03	AS BUILT PER DCA 000144757	
19	7/03	AS BUILT PER DCA 000144757	
18	7/03	AS BUILT PER DCA 000144757	
17	7/03	AS BUILT PER DCA 000144757	
16	7/03	AS BUILT PER DCA 000144757	
15	7/03	AS BUILT PER DCA 000144757	
14	7/03	AS BUILT PER DCA 000144757	
13	7/03	AS BUILT PER DCA 000144757	
12	7/03	AS BUILT PER DCA 000144757	
11	7/03	AS BUILT PER DCA 000144757	
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9	7/03	AS BUILT PER DCA 000144757	
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4	7/03	AS BUILT PER DCA 000144757	
3	7/03	AS BUILT PER DCA 000144757	
2	7/03	AS BUILT PER DCA 000144757	
1	7/03	AS BUILT PER DCA 000144757	

28	INCORPORATED EC-6829	05/07/09	DM	APPROVAL
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NO.	DATE	DESCRIPTION	ISSUE/REVISIONS
15	7/03	AS BUILT PER DCA 000144757	
14	7/03	AS BUILT PER DCA 000144757	
13	7/03	AS BUILT PER DCA 000144757	
12	7/03	AS BUILT PER DCA 000144757	
11	7/03	AS BUILT PER DCA 000144757	
10	7/03	AS BUILT PER DCA 000144757	
9	7/03	AS BUILT PER DCA 000144757	
8	7/03	AS BUILT PER DCA 000144757	
7	7/03	AS BUILT PER DCA 000144757	
6	7/03	AS BUILT PER DCA 000144757	
5	7/03	AS BUILT PER DCA 000144757	
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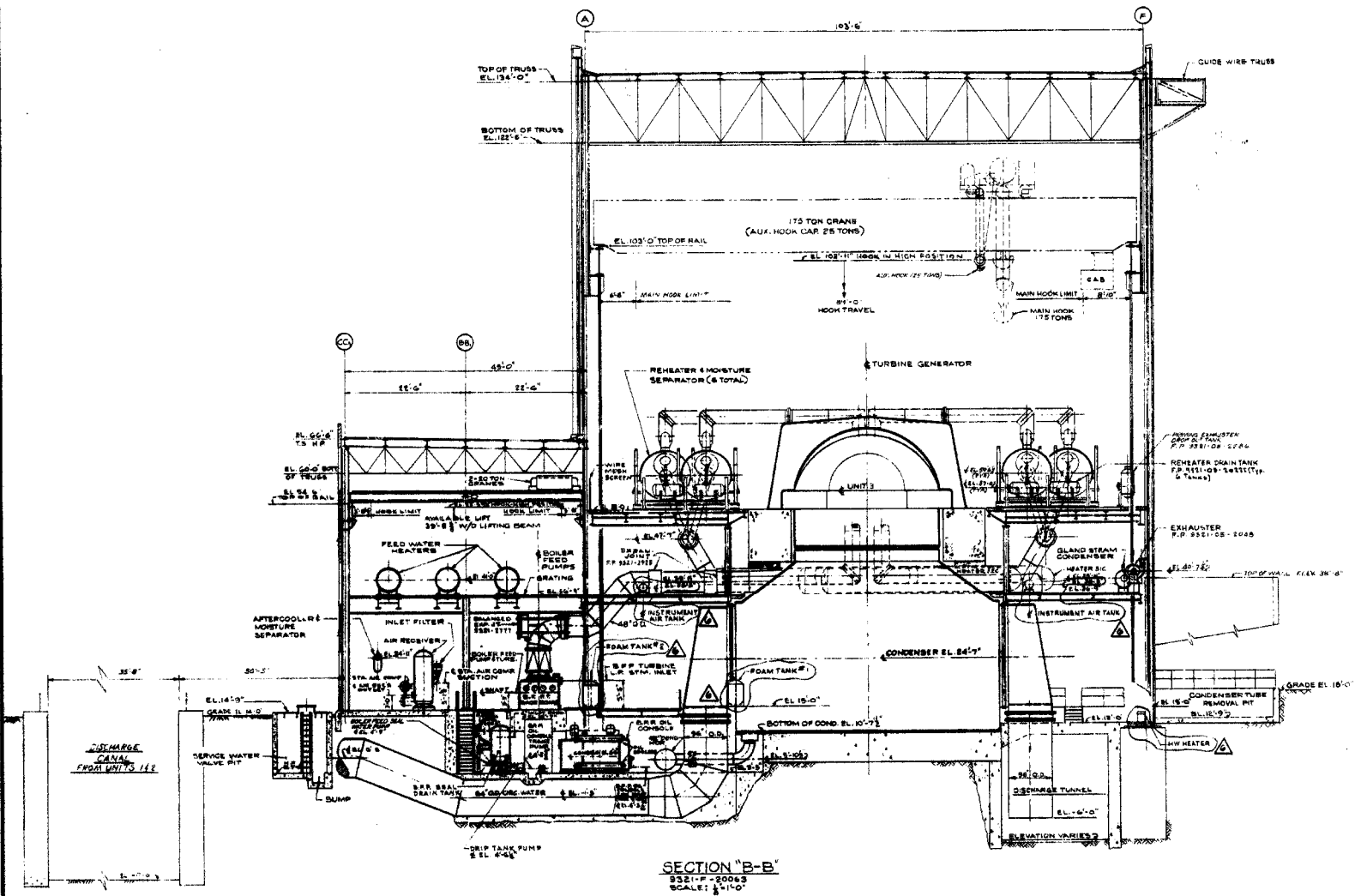
WESTINGHOUSE ELECTRIC CORPORATION
TURBINE BUILDING & HEATER BAY
GENERAL ARRANGEMENT
GROUND FLOOR - PLAN AT ELEV. 15'-0"
FOR
ENTERGY NUCLEAR NORTHEAST
INDIAN POINT GENERATING STATION
UNIT NO. 3
U.E.C. DWG. NO. 9321-F-20063-28 A 201805
CON. ED. ED. DWG.
UNITED ENGINEERS & CONSTRUCTORS INC.
NEW YORK, N.Y. 10017
DATE: 05/07/09
BY: DM
APP: DM
SCALE: 1/8" = 1'-0"
TYPE 'B' DWG.

908/02	
UNIT NO. 3	
INDIAN POINT	DATE



7	W	MODERATELY VIGILANT R.F. # 2-3-68 LONG	W	W
6	W	NOT VIGILANT R.F. # 2-3-68 LONG	W	W
5	W	WALK R.F. # 2-3-68 LONG	W	W
4	W	WALK R.F. # 2-3-68 LONG	W	W
3	W	WALK R.F. # 2-3-68 LONG	W	W
2	W	WALK R.F. # 2-3-68 LONG	W	W
1	W	WALK R.F. # 2-3-68 LONG	W	W
0	W	WALK R.F. # 2-3-68 LONG	W	W
DATE	TIME		DATE	TIME
UNITED RESEARCH & CONSTRUCTORS INC.				

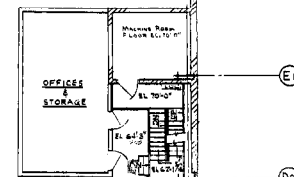
WESTINGHOUSE ELECTRIC CORPORATION
TURBINE BUILDING & HEATER BAY
GENERAL ARRANGEMENT
CROSS SECTION
FOR
CONSOLIDATED DISCON COMPANY
INDIAN POINT GENERATING STATION
UNIT NO. 3
U.S. & CAN. PAT. NO. 2,201,154
4321-F-20073-7 A 201006



SECTION "B-B"
 9321-F-20063
 SCALE: 1/4"=1'-0"

1	REVISED AS PER AS	1/10
2	UNIT CONSTRUCTION AND	1/10
3	REVISIONS	1/10
4	REVISIONS	1/10
5	REVISIONS	1/10
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99	REVISIONS	1/10
100	REVISIONS	1/10

WESTINGHOUSE ELECTRIC CORPORATION
 TURBINE BUILDING & HEATER BAY
 GENERAL ARRANGEMENT
 CROSS SECTION
 CONSOLIDATED EDISON COMPANY
 INDIAN POINT GENERATING STATION
 UNIT NO. 3
 9321-F-20063-6 120/847



WESTINGHOUSE ELECTRIC CORPORATION

TURBINE BUILDING - TWO BAY EXTENSION

GENERAL ARRANGEMENT

PLANS & ELEVATION

FOR

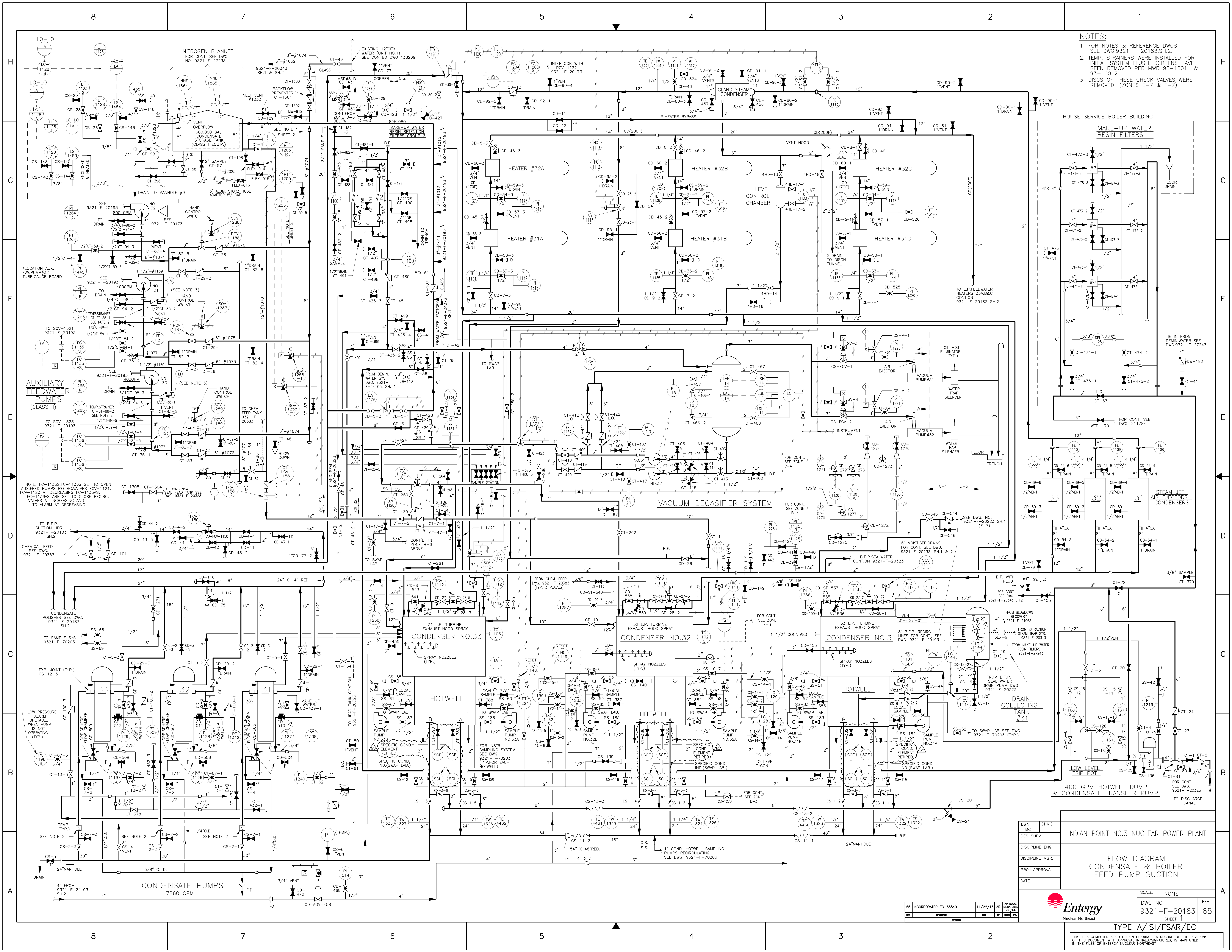
CONSOLIDATED EDISON COMPANY

INDIAN POINT GENERATING STATION

UNIT NO. 2

U.S.P. DES. NO. 2,091,809

NOV. 16, 1942



- NOTES:
- FOR NOTES & REFERENCE DWGS
SEE DWG. 9321-F-20183, SH. 2.
 - TEMP. STRAINERS WERE INSTALLED FOR
INITIAL SYSTEM FLUSH. SCREENS HAVE
BEEN REMOVED PER MWR 93-10011 &
93-10012
 - DISCS OF THESE CHECK VALVES WERE
REMOVED. (ZONES E-7 & F-7)

HOUSE SERVICE BOILER BUILDING

MAKE-UP WATER
RESIN FILTERS

STEAM JET
AIR EXHAUSTORS

CONDENSATE PUMPS
7860 GPM

CONDENSER NO. 31

CONDENSER NO. 32

CONDENSER NO. 33

HOTWELL

VACUUM DEGASIFIER SYSTEM

HEATER #32A

HEATER #32B

HEATER #32C

HEATER #31A

HEATER #31B

HEATER #31C

HEATER #31D

HEATER #31E

HEATER #31F

HEATER #31G

HEATER #31H

HEATER #31I

HEATER #31J

HEATER #31K

HEATER #31L

HEATER #31M

HEATER #31N

HEATER #31O

HEATER #31P

HEATER #31Q

HEATER #31R

HEATER #31S

HEATER #31T

HEATER #31U

HEATER #31V

HEATER #31W

HEATER #31X

HEATER #31Y

HEATER #31Z

HEATER #31AA

HEATER #31AB

HEATER #31AC

HEATER #31AD

HEATER #31AE

HEATER #31AF

HEATER #31AG

HEATER #31AH

HEATER #31AI

HEATER #31AJ

HEATER #31AK

HEATER #31AL

HEATER #31AM

HEATER #31AN

HEATER #31AO

HEATER #31AP

HEATER #31AQ

HEATER #31AR

HEATER #31AS

HEATER #31AT

HEATER #31AU

HEATER #31AV

HEATER #31AW

HEATER #31AX

HEATER #31AY

HEATER #31AZ

HEATER #31BA

HEATER #31BB

HEATER #31BC

HEATER #31BD

HEATER #31BE

HEATER #31BF

HEATER #31BG

HEATER #31BH

HEATER #31BI

HEATER #31BJ

HEATER #31BK

HEATER #31BL

HEATER #31BM

HEATER #31BN

HEATER #31BO

HEATER #31BP

HEATER #31BQ

HEATER #31BR

HEATER #31BS

HEATER #31BT

HEATER #31BU

HEATER #31BV

HEATER #31BW

HEATER #31BX

HEATER #31BY

HEATER #31BZ

HEATER #31CA

HEATER #31CB

HEATER #31CC

HEATER #31CD

HEATER #31CE

HEATER #31CF

HEATER #31CG

HEATER #31CH

HEATER #31CI

HEATER #31CJ

HEATER #31CK

HEATER #31CL

HEATER #31CM

HEATER #31CN

HEATER #31CO

HEATER #31CP

HEATER #31CQ

HEATER #31CR

HEATER #31CS

HEATER #31CT

HEATER #31CU

HEATER #31CV

HEATER #31CW

HEATER #31CX

HEATER #31CY

HEATER #31CZ

HEATER #31DA

HEATER #31DB

HEATER #31DC

HEATER #31DD

HEATER #31DE

HEATER #31DF

HEATER #31DG

HEATER #31DH

HEATER #31DI

HEATER #31DJ

HEATER #31DK

HEATER #31DL

HEATER #31DM

HEATER #31DN

HEATER #31DO

HEATER #31DP

HEATER #31DQ

HEATER #31DR

HEATER #31DS

HEATER #31DT

HEATER #31DU

HEATER #31DV

HEATER #31DW

HEATER #31DX

HEATER #31DY

HEATER #31DZ

HEATER #31EA

HEATER #31EB

HEATER #31EC

HEATER #31ED

HEATER #31EE

HEATER #31EF

HEATER #31EG

HEATER #31EH

HEATER #31EI

HEATER #31EJ

HEATER #31EK

HEATER #31EL

HEATER #31EM

HEATER #31EN

HEATER #31EO

HEATER #31EP

HEATER #31EQ

HEATER #31ER

HEATER #31ES

HEATER #31ET

HEATER #31EU

HEATER #31EV

HEATER #31EW

HEATER #31EX

HEATER #31EY

HEATER #31EZ

HEATER #31FA

HEATER #31FB

HEATER #31FC

HEATER #31FD

HEATER #31FE

HEATER #31FF

HEATER #31FG

HEATER #31FH

HEATER #31FI

HEATER #31FJ

HEATER #31FK

HEATER #31FL

HEATER #31FM

HEATER #31FN

HEATER #31FO

HEATER #31FP

HEATER #31FQ

HEATER #31FR

HEATER #31FS

HEATER #31FT

HEATER #31FU

HEATER #31FV

HEATER #31FW

HEATER #31FX

HEATER #31FY

HEATER #31FZ

HEATER #31GA

HEATER #31GB

HEATER #31GC

HEATER #31GD

HEATER #31GE

HEATER #31GF

HEATER #31GG

HEATER #31GH

HEATER #31GI

HEATER #31GJ

HEATER #31GK

HEATER #31GL

HEATER #31GM

HEATER #31GN

HEATER #31GO

HEATER #31GP

HEATER #31GQ

HEATER #31GR

HEATER #31GS

HEATER #31GT

HEATER #31GU

HEATER #31GV

HEATER #31GW

HEATER #31GX

HEATER #31GY

HEATER #31GZ

HEATER #31HA

HEATER #31HB

HEATER #31HC

HEATER #31HD

HEATER #31HE

HEATER #31HF

HEATER #31HG

HEATER #31HH

HEATER #31HI

HEATER #31HJ

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HEATER #31HN

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HEATER #31HQ

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HEATER #31HS

HEATER #31HT

HEATER #31HU

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HEATER #31IG

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HEATER #31II

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HEATER #31IK

HEATER #31IL

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HEATER #31IT

HEATER #31IU

HEATER #31IV

HEATER #31IW

HEATER #31IX

HEATER #31IY

HEATER #31IZ

HEATER #31JA

HEATER #31JB

HEATER #31JC

HEATER #31JD

HEATER #31JE

HEATER #31JF

HEATER #31JG

HEATER #31JH

HEATER #31JI

HEATER #31JJ

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HEATER #31JM

HEATER #31JN

HEATER #31JO

HEATER #31JP

HEATER #31JQ

HEATER #31JR

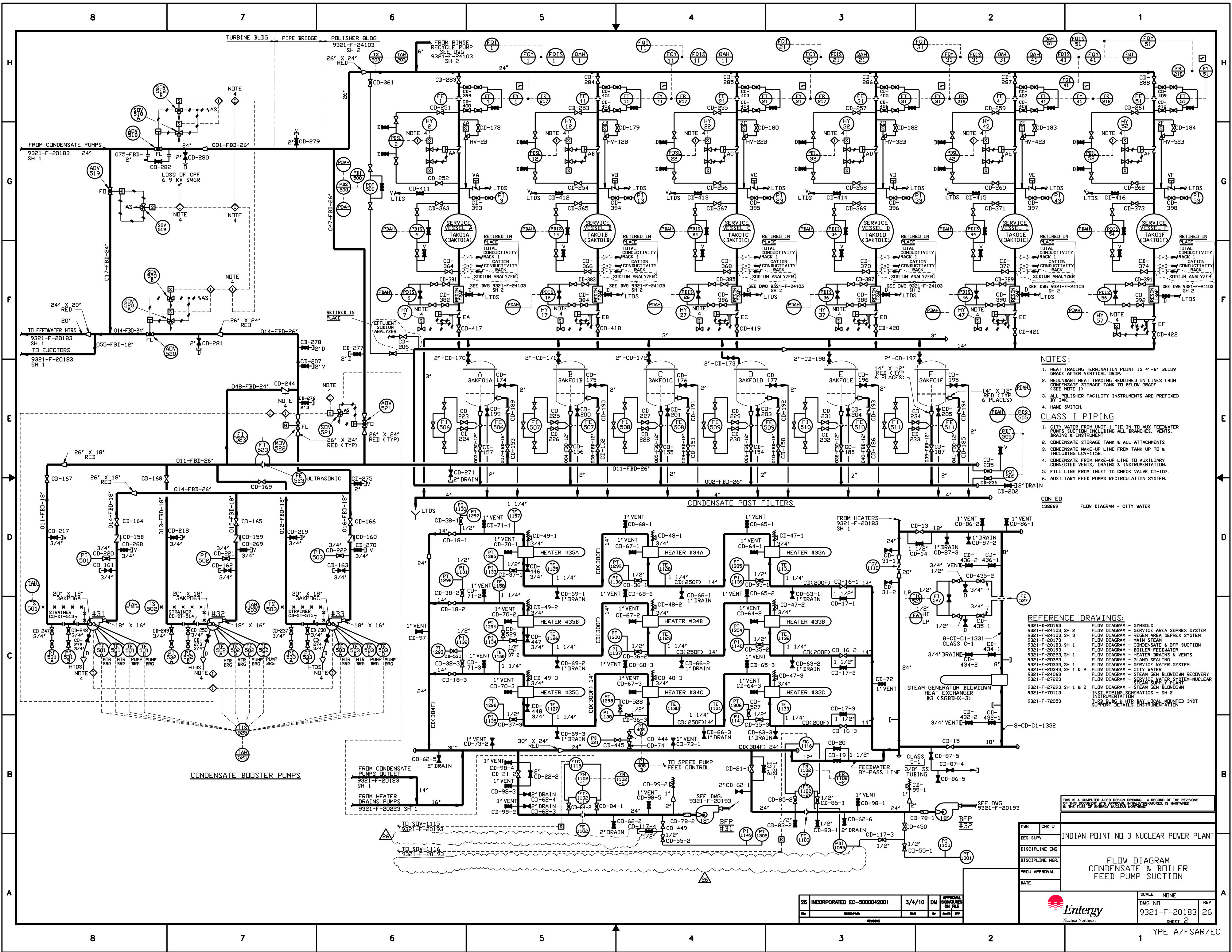
HEATER #31JS

HEATER #31JT

HEATER #31JU

HEATER #31JV

HEATER #31JW

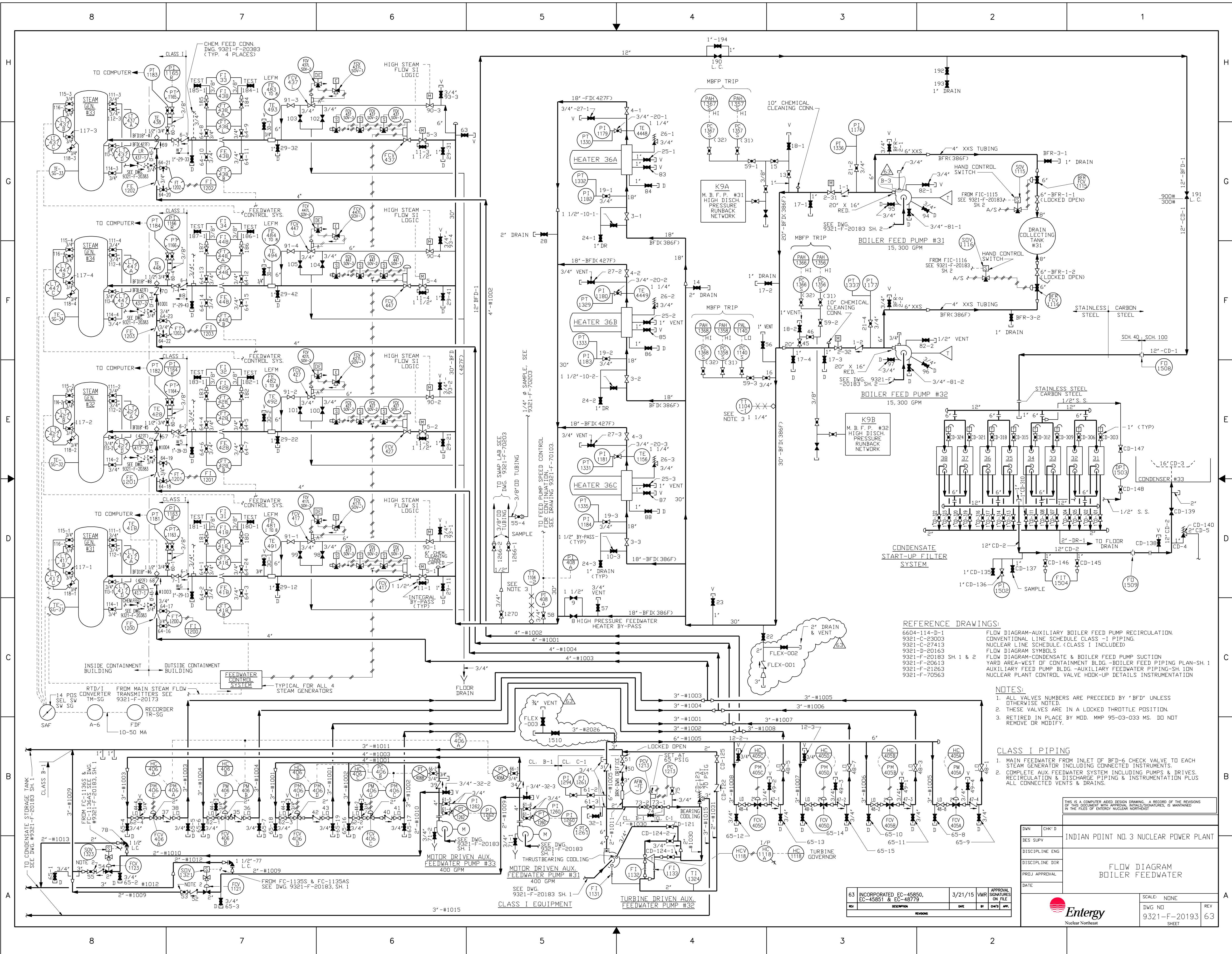


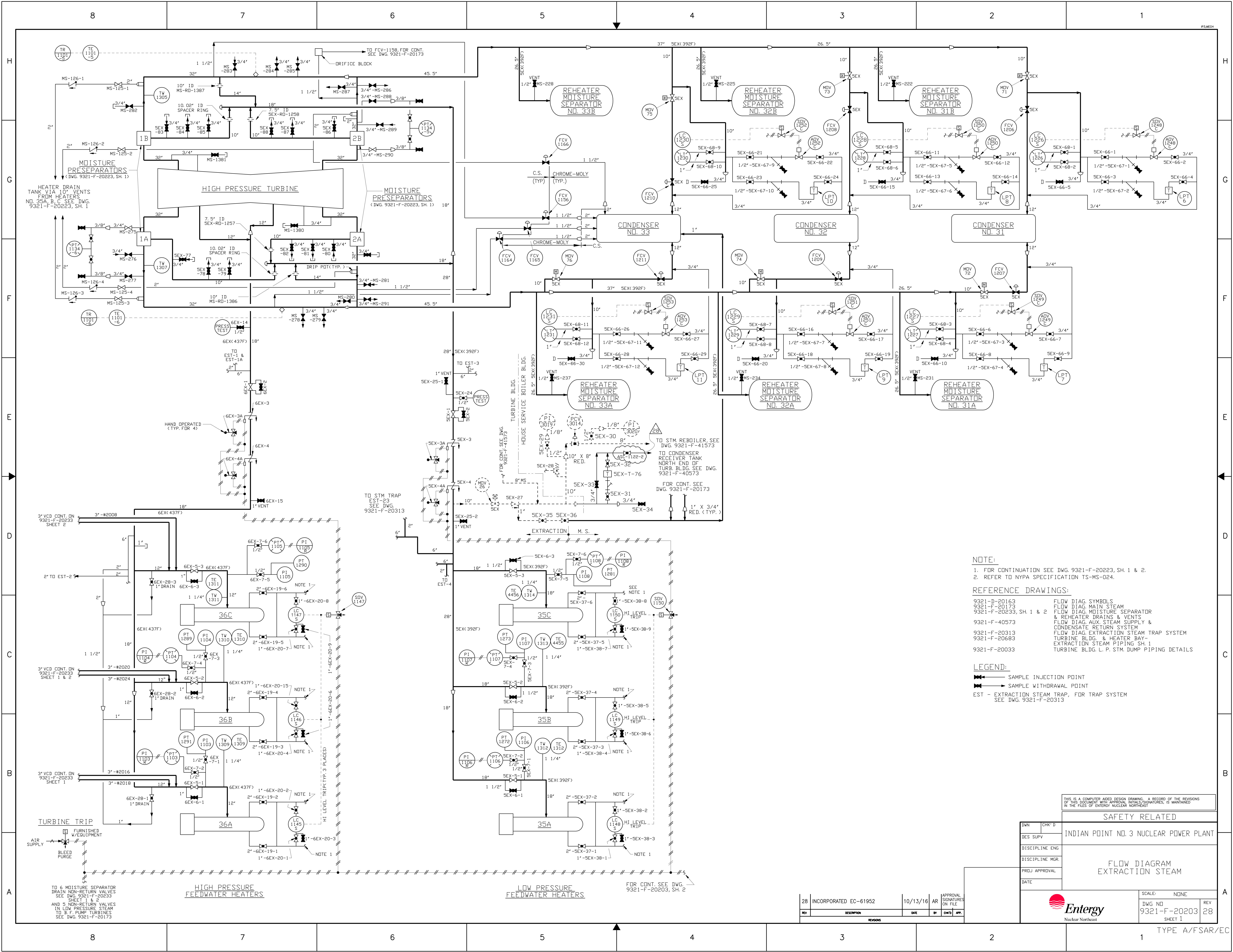
- NOTES:**
1. HEAT TRACING TERMINATION POINT IS 4" - 6" BELOW GRADE AFTER VERTICAL DROP.
 2. REDUNDANT HEAT TRACING REQUIRED ON LINES FROM CONDENSATE STORAGE TANK TO BELOW GRADE (SEE NOTE 1).
 3. ALL POLISHER FACILITY INSTRUMENTS ARE PREFIXED BY 3AK.
 4. HAND SWITCH.
- CLASS I PIPING**
1. CITY WATER FROM UNIT 1 TIE-IN TO AUX FEEDWATER PUMPS SUCTION INCLUDING ALL BRANCHES, VENTS, DRAINS & INSTRUMENT.
 2. CONDENSATE STORAGE TANK & ALL ATTACHMENTS.
 3. CONDENSATE MAKE-UP LINE FROM TANK UP TO & INCLUDING LO-1138.
 4. CONDENSATE FROM MAKE-UP LINE TO AUXILIARY CONNECTED VENTS, DRAINS & INSTRUMENTATION.
 5. FILL LINE FROM INLET TO CHECK VALVE CT-107.
 6. AUXILIARY FEED PUMPS RECIRCULATION SYSTEM.

- REFERENCE DRAWINGS:**
- 9321-D-20163 FLOW DIAGRAM - SYMBOLS
 - 9321-F-24103, SH 2 FLOW DIAGRAM - SERVICE AREA SEPAREX SYSTEM
 - 9321-F-24103, SH 3 FLOW DIAGRAM - REGEN AREA SEPAREX SYSTEM
 - 9321-F-20173 FLOW DIAGRAM - MAIN STEAM
 - 9321-F-20185, SH 1 FLOW DIAGRAM - CONDENSATE & BFP SUCTION
 - 9321-F-20193 FLOW DIAGRAM - BOILER FEEDWATER
 - 9321-F-20223, SH 1 FLOW DIAGRAM - HEATER DRAINS & VENTS
 - 9321-F-20233, SH 1 FLOW DIAGRAM - SERVICE WATER SYSTEM
 - 9321-F-20343, SH 1 & 2 FLOW DIAGRAM - CITY WATER
 - 9321-F-24063 FLOW DIAGRAM - GLAND SEALING
 - 9321-F-27223 FLOW DIAGRAM - STEAM GEN. BLOWDOWN RECOVERY
 - 9321-F-27293, SH 1 & 2 FLOW DIAGRAM - STEAM GEN. BLOWDOWN
 - 9321-F-70113 INST. PIPING SCHEMATICS - SH 2
 - 9321-F-72053 TURB. BLDG & HTR BAY LOCAL MOUNTED INST SUPPORT DETAILS INSTRUMENTATION

THIS IS A COMPUTER AIDED DESIGN DRAWING. A RECORD OF THE REVISIONS OF THIS DOCUMENT WITH APPROVAL INITIALS/SIGNATURES, IS MAINTAINED IN THE FILES OF INDIAN POINT NUCLEAR.	
DWN	CHK'D
DES SUPV	
DISCIPLINE ENG	
DISCIPLINE MGR	
PROJ APPROVAL	
DATE	
INDIAN POINT NO. 3 NUCLEAR POWER PLANT	
FLOW DIAGRAM CONDENSATE & BOILER FEED PUMP SECTION	
SCALE	NONE
DWG NO	9321-F-20183
SHEET	26
REV	

26	INCORPORATED EC-5000042001	3/4/10	DM	APPROVAL
REV	DESCRIPTION	DATE	BY	CHK'D





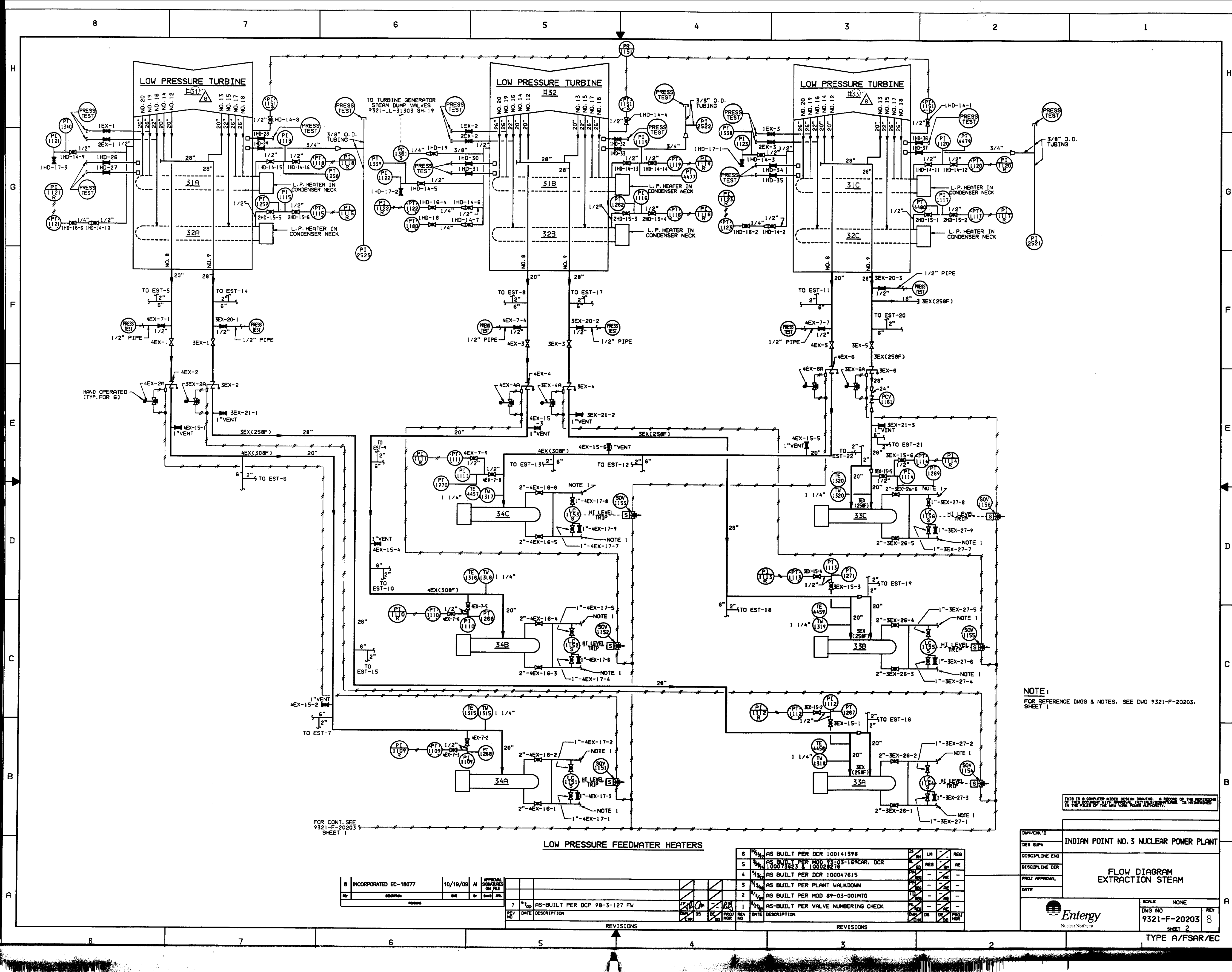
NOTE:
1. FOR CONTINUATION SEE DWG. 9321-F-20223, SH. 1 & 2.
2. REFER TO NYPA SPECIFICATION TS-MS-024.

REFERENCE DRAWINGS:
9321-D-20163 FLOW DIAG. SYMBOLS
9321-F-20173 FLOW DIAG. MAIN STEAM
9321-F-20233, SH. 1 & 2 FLOW DIAG. MOISTURE SEPARATOR
& REHEATER DRAINS & VENTS
9321-F-40573 FLOW DIAG. AUX. STEAM SUPPLY &
CONDENSATE RETURN SYSTEM
9321-F-20313 FLOW DIAG. EXTRACTION STEAM TRAP SYSTEM
9321-F-20683 TURBINE BLDG. & HEATER BAY-
EXTRACTION STEAM PIPING, SH. 1
9321-F-20033 TURBINE BLDG. L.P. STM. DUMP PIPING DETAILS

LEGEND:
SAMPLE INJECTION POINT
SAMPLE WITHDRAWAL POINT
EST - EXTRACTION STEAM TRAP, FOR TRAP SYSTEM
SEE DWG. 9321-F-20313

THIS IS A COMPUTER AIDED DESIGN DRAWING. A RECORD OF THE REVISIONS OF THIS DOCUMENT WITH APPROVAL INITIALS/SIGNATURES, IS MAINTAINED IN THE FILES OF ENTERGY NUCLEAR NORTHEAST.	
SAFETY RELATED	
DWN	CHK'D
DES. SUPV.	INDIAN POINT NO. 3 NUCLEAR POWER PLANT
DISCIPLINE ENG.	
DISCIPLINE MGR.	
PROJ. APPROVAL	FLOW DIAGRAM EXTRACTION STEAM
DATE	
SCALE: NONE	
DWG NO.	REV
9321-F-20203	28
SHEET 1	
TYPE A/F/SAR/EC	

28	INCORPORATED EC-61952	10/13/16	AR	APPROVAL SIGNATURES ON FILE
REV	DESCRIPTION	DATE	BY	CHK'D



NOTE:
FOR REFERENCE DWGS & NOTES, SEE DWG 9321-F-20203, SHEET 1

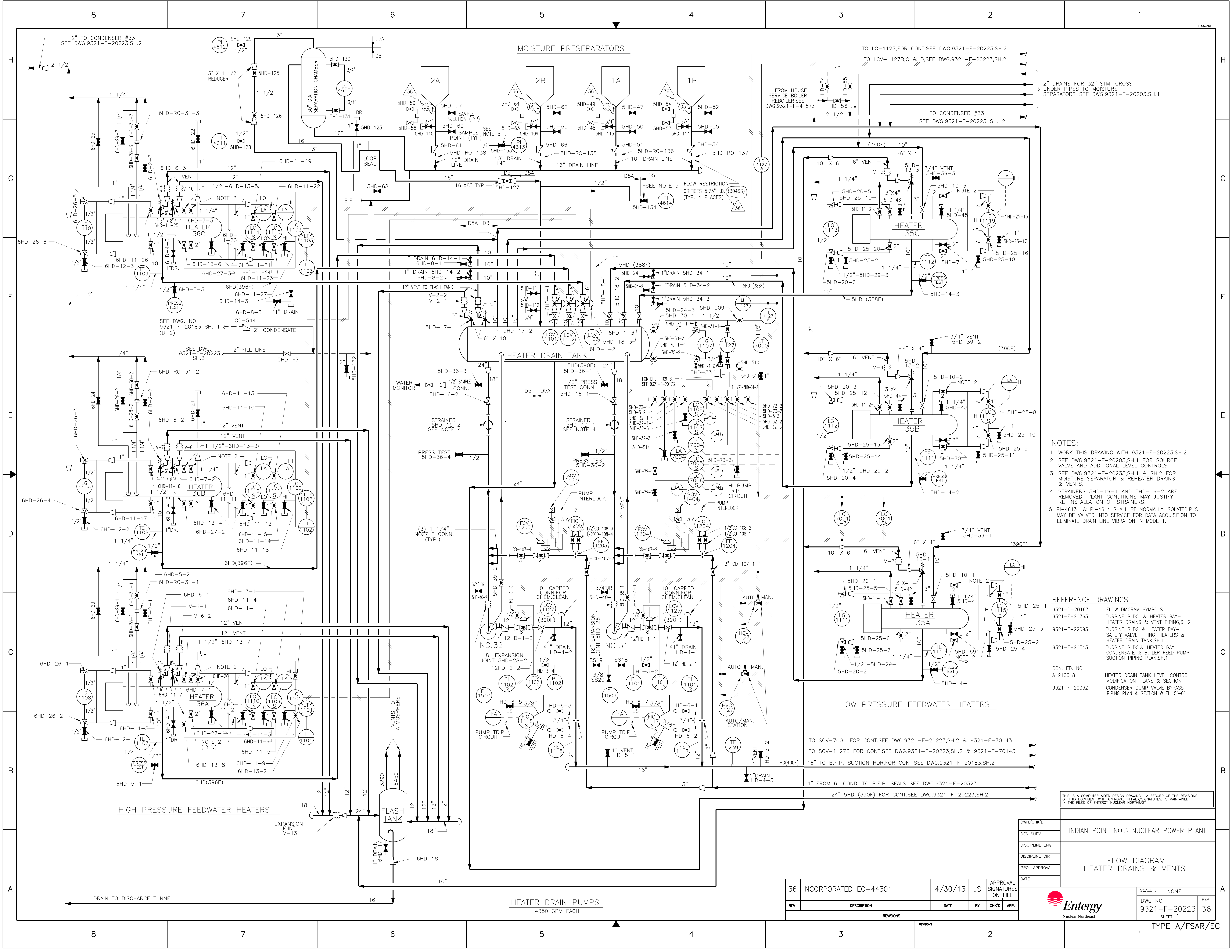
THIS IS A COMPUTER AIDED DESIGN DRAWING. A RECORD OF THE REVISIONS OF THIS DOCUMENT WITH APPROVED, DATED, AND SIGNED, IS MAINTAINED IN THE FILES OF THE NEW YORK POWER AUTHORITY.

DATE/CHG'D	DES SUPV	DISCIPLINE ENG	PROJ APPROVAL	DATE
INDIAN POINT NO. 3 NUCLEAR POWER PLANT				
FLOW DIAGRAM EXTRACTION STEAM				
SCALE NONE				
DWG NO 9321-F-20203				
SHEET 2				
TYPE A/FSAR/EC				

Ennergy
Nuclear Northeast

8	INCORPORATED EC-18077	10/19/09	AI	APPROVAL	CHANGED ON FILE
7	AS-BUILT PER DCP 98-3-127 FW				
6	AS BUILT PER DCR 100141598				
5	AS BUILT PER MOD 83-03-169CAR, DCR 100075825 & 100028278				
4	AS BUILT PER DCR 100047615				
3	AS BUILT PER PLANT WALKDOWN				
2	AS BUILT PER MOD 89-03-001MTG				
1	AS-BUILT PER VALVE NUMBERING CHECK				

REV	DATE	DESCRIPTION	BY	CHK	DES	PROJ	REV	DATE	DESCRIPTION	BY	CHK	DES	PROJ
7		AS-BUILT PER DCP 98-3-127 FW					1		AS-BUILT PER VALVE NUMBERING CHECK				



- NOTES:**
1. WORK THIS DRAWING WITH 9321-F-20223,SH.2.
 2. SEE DWG.9321-F-20203,SH.1 FOR SOURCE VALVE AND ADDITIONAL LEVEL CONTROLS.
 3. SEE DWG.9321-F-20223,SH.1 & SH.2 FOR MOISTURE SEPARATOR & REHEATER DRAINS & VENTS.
 4. STRAINERS 5HD-19-1 AND 5HD-19-2 ARE REMOVED. PLANT CONDITIONS MAY JUSTIFY RE-INSTALLATION OF STRAINERS.
 5. PI-4613 & PI-4614 SHALL BE NORMALLY ISOLATED.PI'S MAY BE VALVED INTO SERVICE FOR DATA ACQUISITION TO ELIMINATE DRAIN LINE VIBRATION IN MODE 1.

- REFERENCE DRAWINGS:**
- | CON. ED. NO. | DESCRIPTION |
|--------------|---|
| 9321-D-20163 | FLOW DIAGRAM SYMBOLS |
| 9321-F-20763 | TURBINE BLDG. & HEATER BAY- HEATER DRAINS & VENT PIPING,SH.2 |
| 9321-F-22093 | TURBINE BLDG & HEATER BAY- SAFETY VALVE PIPING-HEATERS & HEATER DRAIN TANK,SH.1 |
| 9321-F-20543 | TURBINE BLDG. & HEATER BAY CONDENSATE & BOILER FEED PUMP SUCTION PIPING PLAN,SH.1 |
| A 210618 | HEATER DRAIN TANK LEVEL CONTROL MODIFICATION-PLANS & SECTION |
| 9321-F-20032 | CONDENSER DUMP VALVE BYPASS PIPING PLAN & SECTION @ EL.15'-0" |

THIS IS A COMPUTER AIDED DESIGN DRAWING. A RECORD OF THE REVISIONS OF THIS DOCUMENT WITH APPROVAL INITIALS/SIGNATURES, IS MAINTAINED IN THE FILES OF ENTERTY NUCLEAR, NORTHEAST

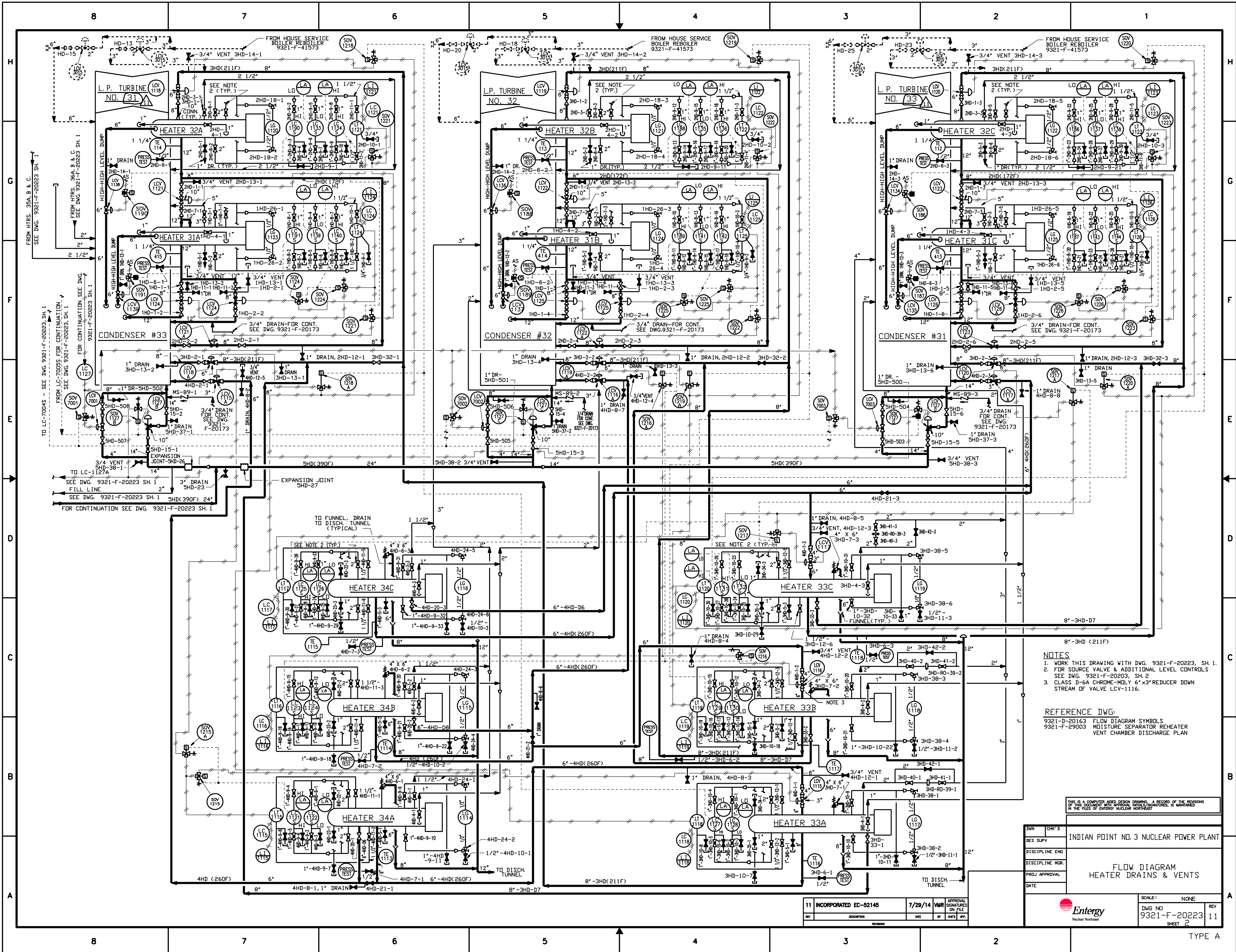
DWN/CHK'D	DES SUPV	DISCIPLINE ENG	DISCIPLINE DIR	PROJ APPROVAL	DATE
INDIAN POINT NO.3 NUCLEAR POWER PLANT					
FLOW DIAGRAM HEATER DRAINS & VENTS					

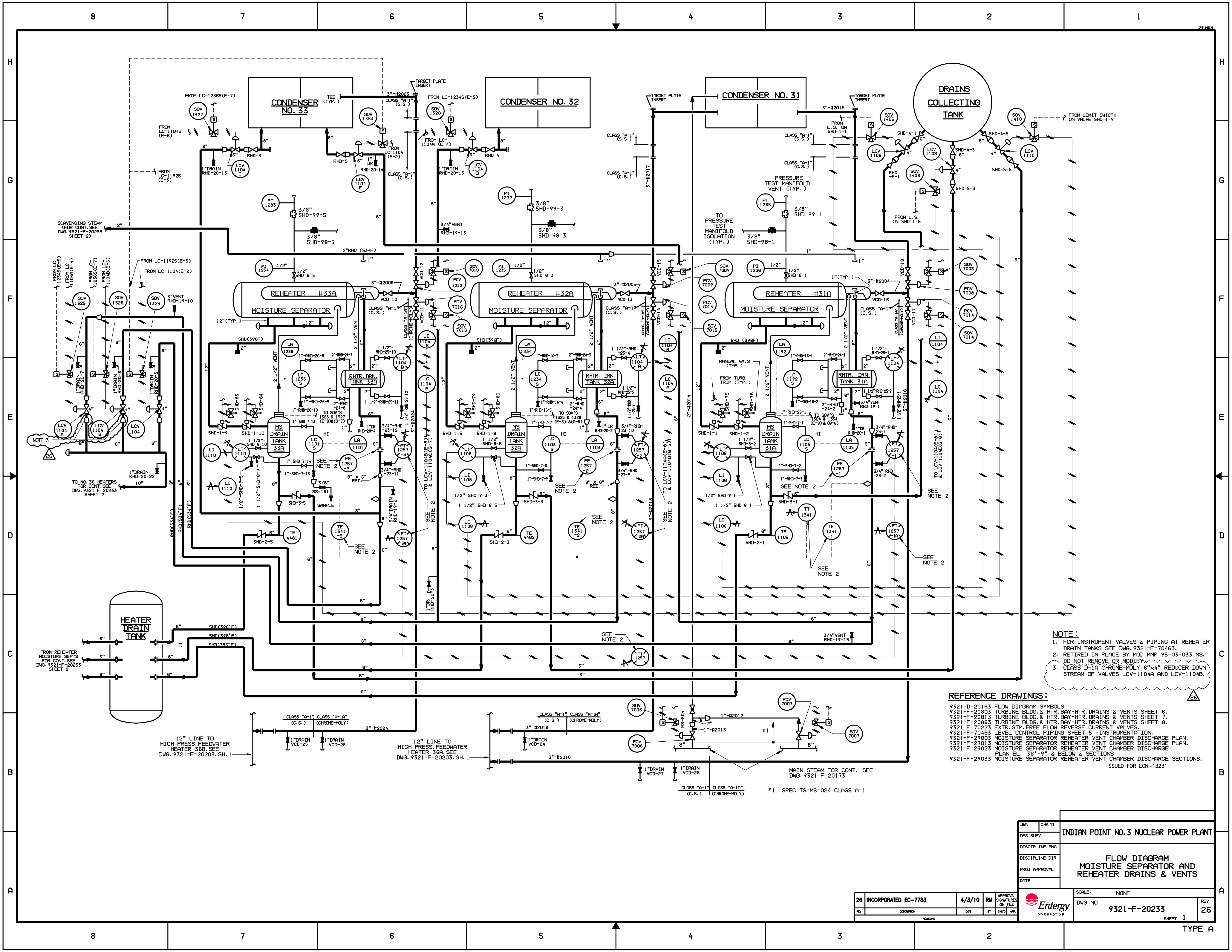
36	INCORPORATED EC-44301	4/30/13	JS	APPROVAL SIGNATURES ON FILE	
REV	DESCRIPTION	DATE	BY	CHK'D	APP.
REVISIONS					

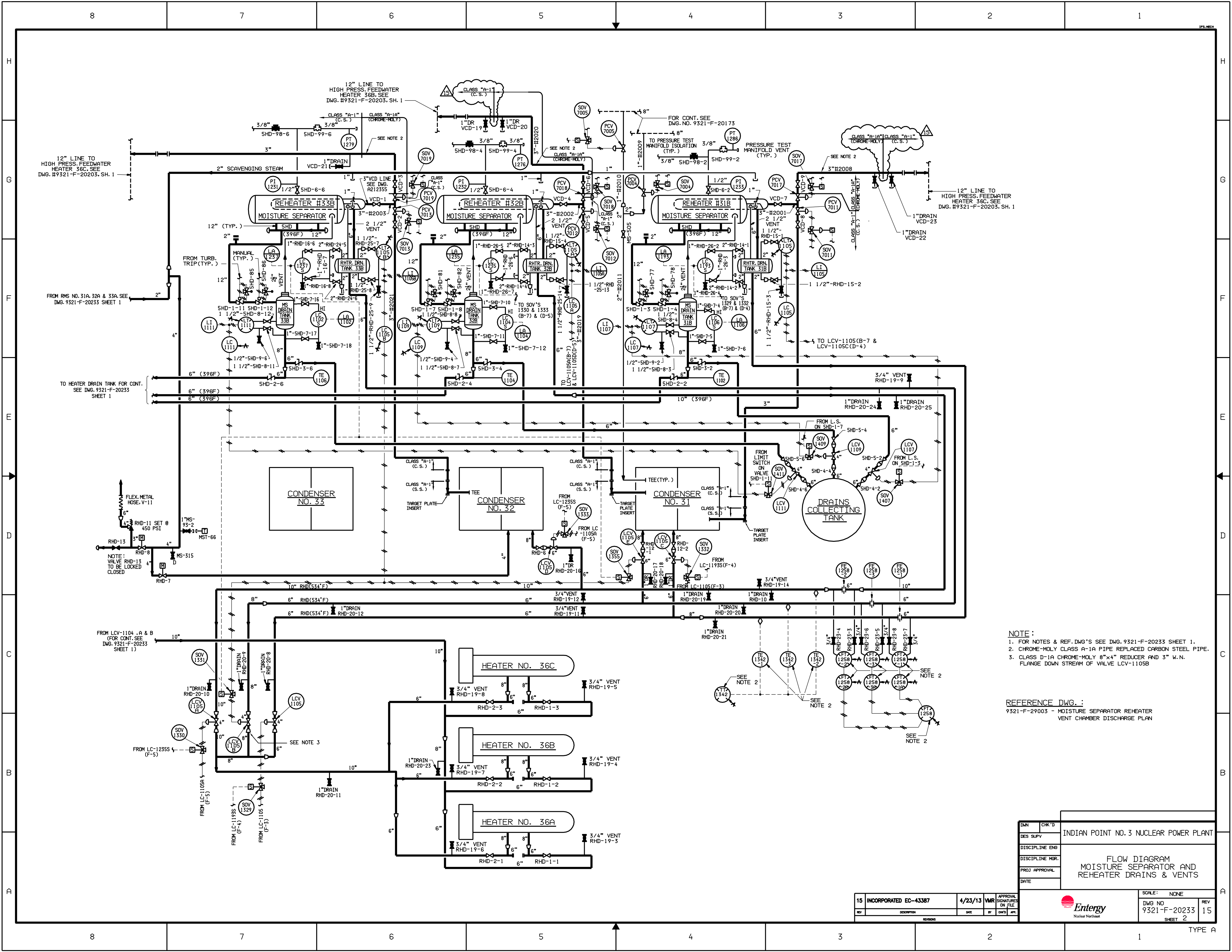


SCALE :	NONE		
DWG NO	9321-F-20223	REV	36
SHEET	1		

TYPE A/FSAR/EC







- NOTE:
- 1. FOR NOTES & REF. DWG.'S SEE DWG. 9321-F-20233 SHEET 1.
 - 2. CHROME-MOLY CLASS A-1A PIPE REPLACED CARBON STEEL PIPE.
 - 3. CLASS D-1A CHROME-MOLY 8"x4" REDUCER AND 3" W.N. FLANGE DOWN STREAM OF VALVE LCV-1105B

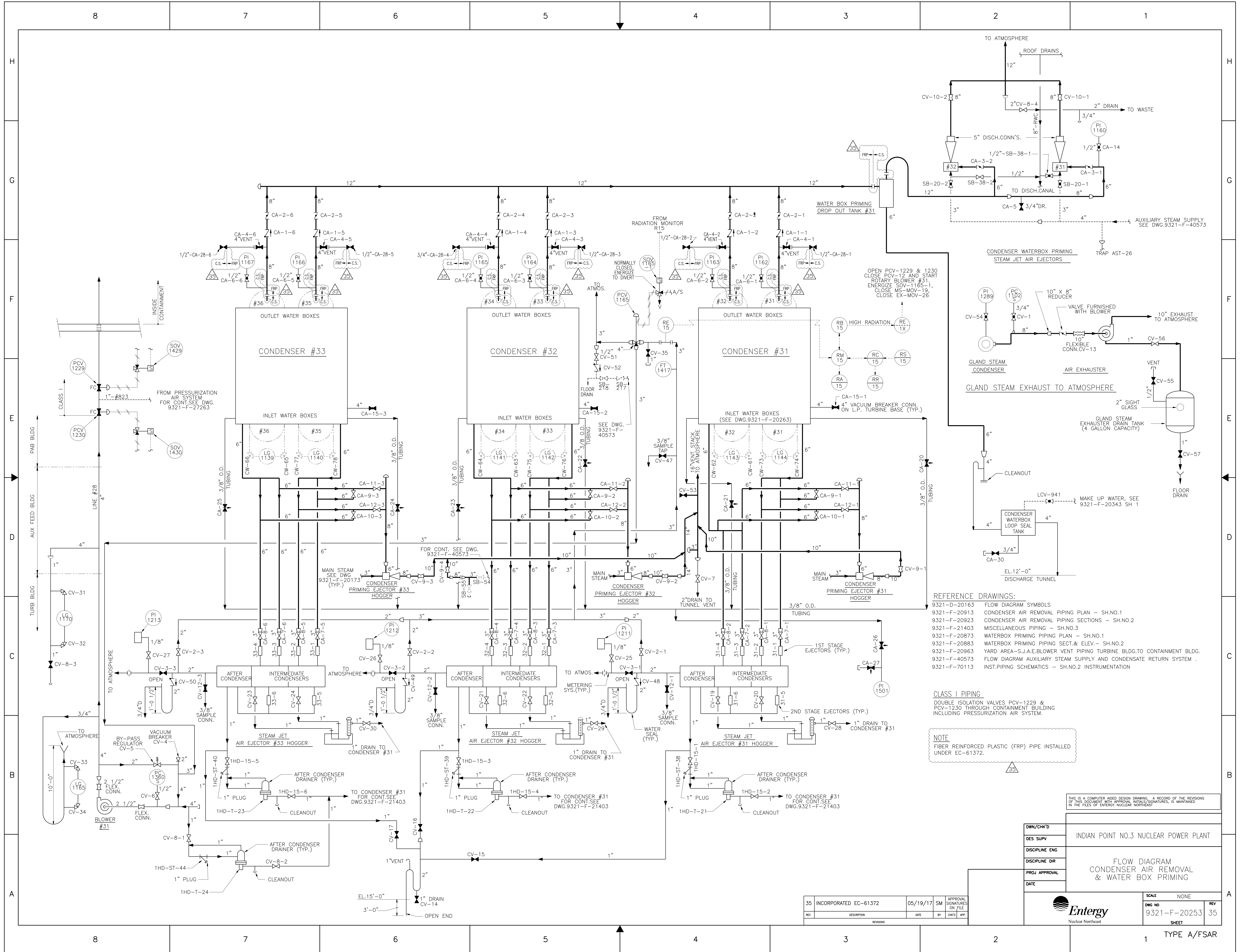
REFERENCE DWG. :
9321-F-29003 - MOISTURE SEPARATOR REHEATER
VENT CHAMBER DISCHARGE PLAN

15	INCORPORATED EC-43387	4/23/13	VMR	APPROVAL
REV	DESCRIPTION	DATE	BY	CHK'D

DWN	CHK'D	INDIAN POINT NO. 3 NUCLEAR POWER PLANT
DES. SUPV.		
DISCIPLINE ENG.		
DISCIPLINE MGR.		
PROJ. APPROVAL		
DATE		
		SCALE: NONE
		DWG NO. 9321-F-20233
		SHEET 2
		REV 15

Entergy
Nuclear Northeast

TYPE A



- REFERENCE DRAWINGS:
- 9321-D-20163 FLOW DIAGRAM SYMBOLS
 - 9321-F-20913 CONDENSER AIR REMOVAL PIPING PLAN - SH.NO.1
 - 9321-F-20923 CONDENSER AIR REMOVAL PIPING SECTIONS - SH.NO.2
 - 9321-F-21403 MISCELLANEOUS PIPING - SH.NO.3
 - 9321-F-20873 WATERBOX PRIMING PIPING PLAN - SH.NO.1
 - 9321-F-20883 WATERBOX PRIMING PIPING SECT.& ELEV.- SH.NO.2
 - 9321-F-20963 YARD AREA-S.J.A.E.BLOWER VENT PIPING TURBINE BLDG.TO CONTAINMENT BLDG.
 - 9321-F-40573 FLOW DIAGRAM AUXILIARY STEAM SUPPLY AND CONDENSATE RETURN SYSTEM
 - 9321-F-70113 INST.PIPING SCHEMATICS - SH.NO.2 INSTRUMENTATION

CLASS I PIPING
DOUBLE ISOLATION VALVES PCV-1229 & PCV-1230 THROUGH CONTAINMENT BUILDING INCLUDING PRESSURIZATION AIR SYSTEM.

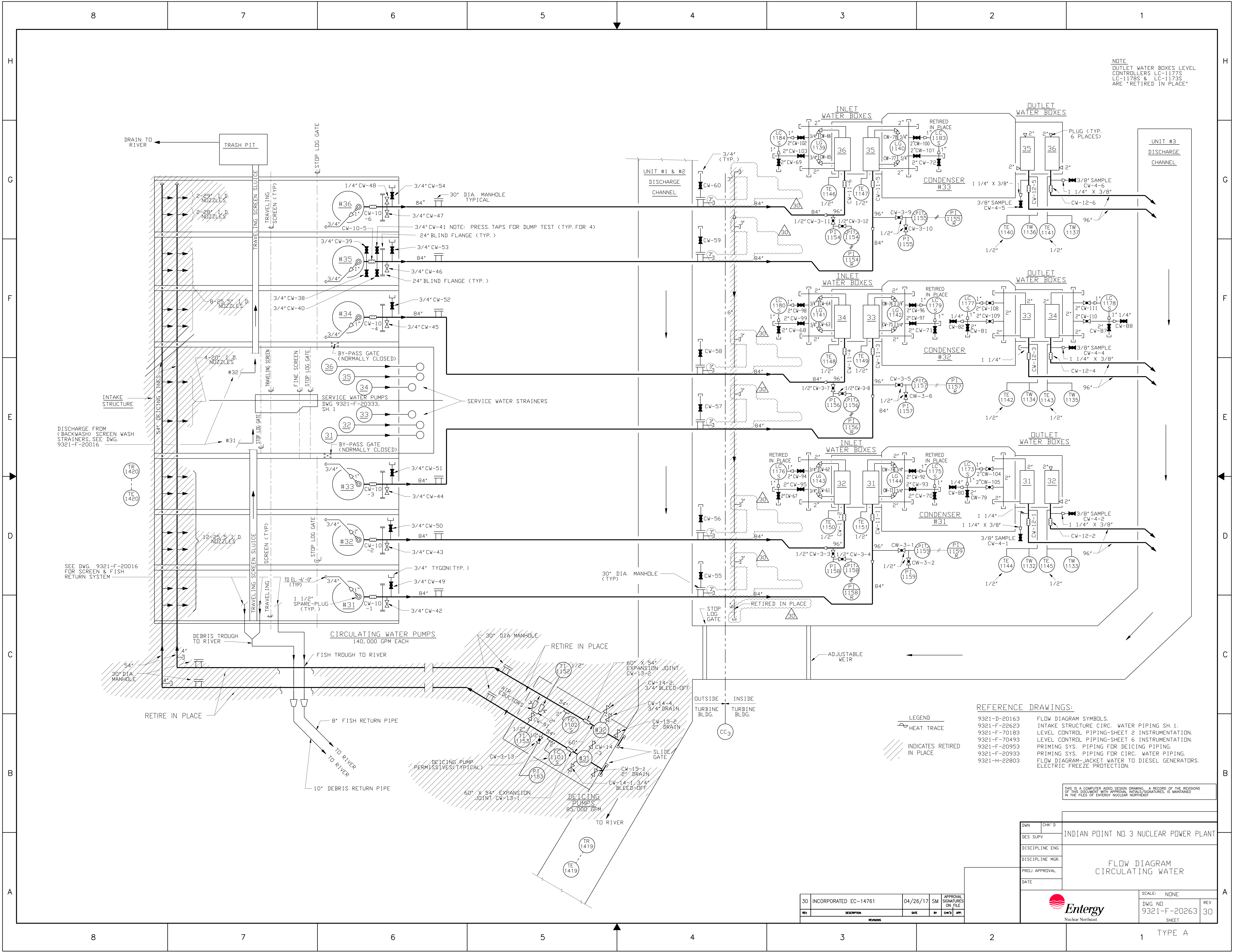
NOTE
FIBER REINFORCED PLASTIC (FRP) PIPE INSTALLED UNDER EC-61372.

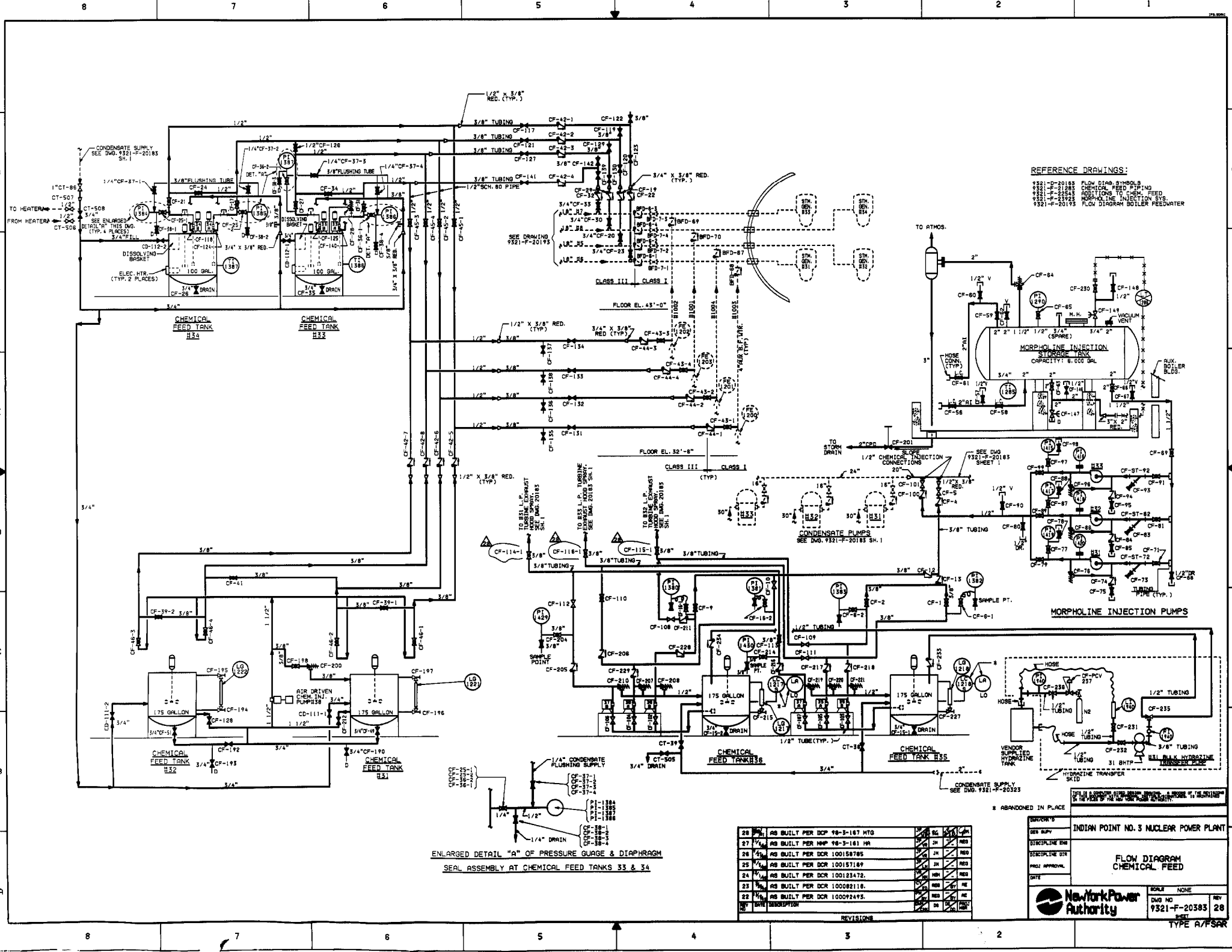
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DWN/CHK'D	DES SUPV	DISCIPLINE ENG	DISCIPLINE DIR	PROJ APPROVAL	DATE
INDIAN POINT NO.3 NUCLEAR POWER PLANT					
FLOW DIAGRAM CONDENSER AIR REMOVAL & WATER BOX PRIMING					
Entergy Nuclear Northeast				SCALE NONE	REV
				DWG NO 9321-F-20253	35
				SHEET	

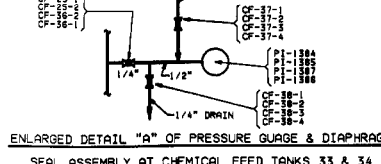
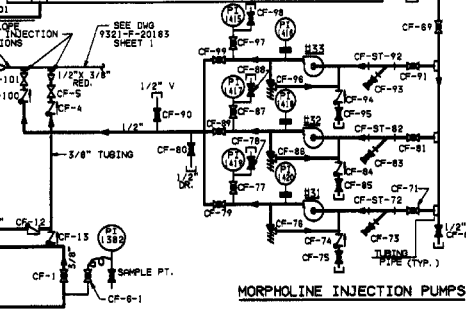
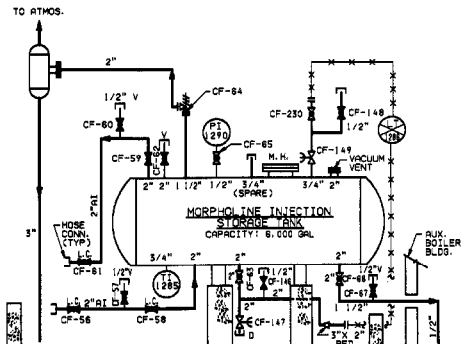
35	INCORPORATED EC-61372	05/19/17	SM	APPROVAL SIGNATURES ON FILE
REV	DESCRIPTION	DATE	BY	CHK'D APP.

TYPE A/FSAR





REFERENCE DRAWINGS:
9321-P-20185 FLOW DIAG. SYMBOLS
9321-P-20185 CHEMICAL FEED PIPING
9321-P-20185 ADDITIONS TO CHEM. FEED
9321-P-20185 MORPHOLINE INJECTION SYS.
9321-P-20185 FLOW DIAGRAM BOILER FEEDWATER



NO.	DESCRIPTION	REV.	DATE	BY	CHK.	APP.
28	AS BUILT PER DCR 98-3-187 MTD	1				
27	AS BUILT PER MFP 98-3-181 MR	1				
26	AS BUILT PER DCR 100158705	1				
25	AS BUILT PER DCR 100157169	1				
24	AS BUILT PER DCR 100123472	1				
23	AS BUILT PER DCR 100082118	1				
22	AS BUILT PER DCR 100092495	1				
21	AS BUILT PER DCR 100092495	1				

INDIAN POINT NO. 3 NUCLEAR POWER PLANT

FLOW DIAGRAM
CHEMICAL FEED

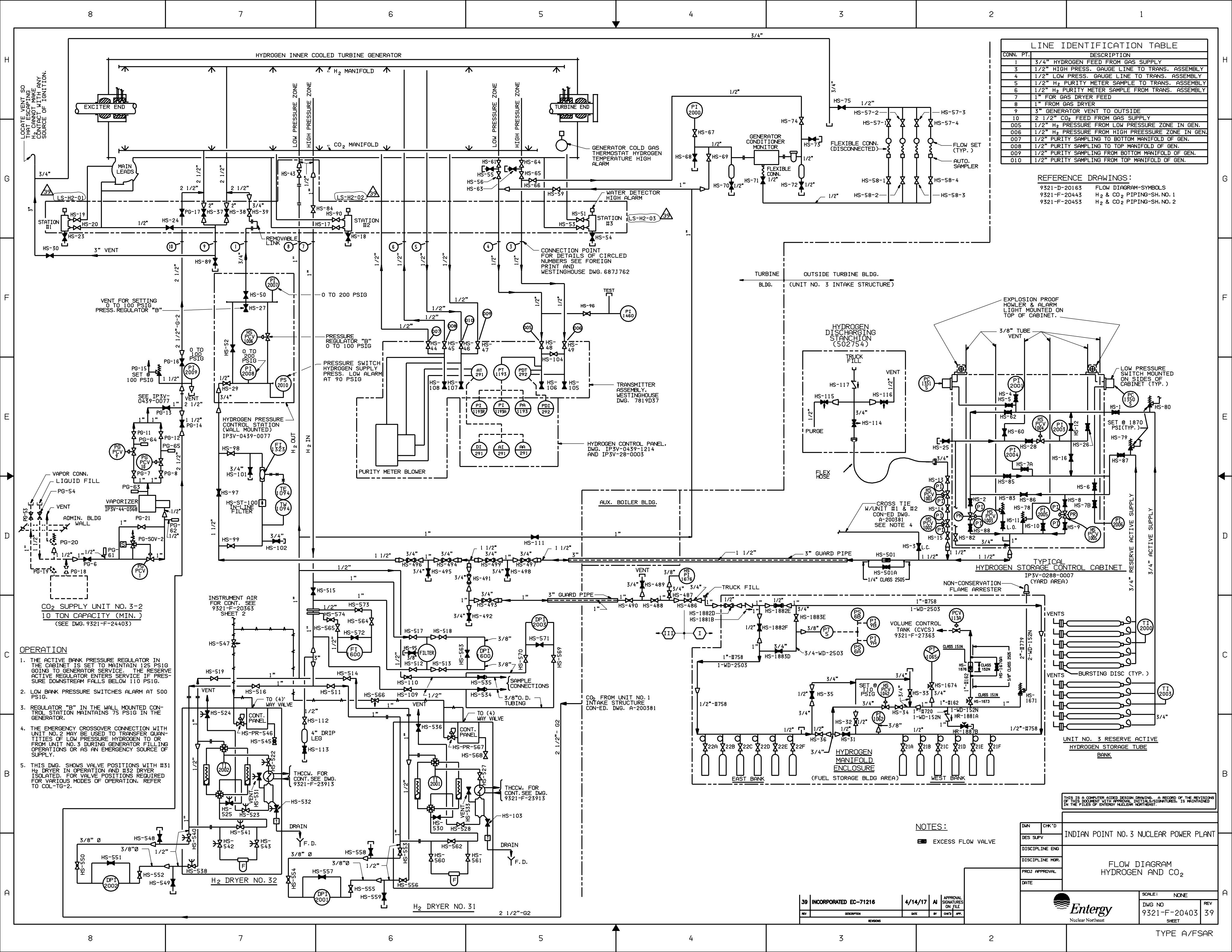
DATE: _____

SCALE: NONE

DWG NO: 9321-F-20383

REV: 28

TYPE: A/FSAR



LINE IDENTIFICATION TABLE	
CONN. PT.	DESCRIPTION
1	3/4" HYDROGEN FEED FROM GAS SUPPLY
3	1/2" HIGH PRESS. GAUGE LINE TO TRANS. ASSEMBLY
4	1/2" LOW PRESS. GAUGE LINE TO TRANS. ASSEMBLY
5	1/2" H2 PURITY METER SAMPLE FROM TRANS. ASSEMBLY
6	1/2" H2 PURITY METER SAMPLE FROM TRANS. ASSEMBLY
7	1" FOR GAS DRYER FEED
8	1" FROM GAS DRYER
9	3" GENERATOR VENT TO OUTSIDE
10	2 1/2" CO2 FEED FROM GAS SUPPLY
005	1/2" H2 PRESSURE FROM HIGH PRESSURE ZONE IN GEN.
006	1/2" H2 PRESSURE FROM LOW PRESSURE ZONE IN GEN.
007	1/2" PURITY SAMPLING TO BOTTOM MANIFOLD OF GEN.
008	1/2" PURITY SAMPLING TO TOP MANIFOLD OF GEN.
009	1/2" PURITY SAMPLING FROM BOTTOM MANIFOLD OF GEN.
010	1/2" PURITY SAMPLING FROM TOP MANIFOLD OF GEN.

REFERENCE DRAWINGS:
9321-D-20163 FLOW DIAGRAM-SYMBOLS
9321-F-20443 H2 & CO2 PIPING-SH. NO. 1
9321-F-20453 H2 & CO2 PIPING-SH. NO. 2

- OPERATION**
1. THE ACTIVE BANK PRESSURE REGULATOR IN THE CABINET IS SET TO MAINTAIN 125 PSIG GOING TO GENERATOR SERVICE. THE RESERVE ACTIVE REGULATOR ENTERS SERVICE IF PRESSURE DOWNSTREAM FALLS BELOW 110 PSIG.
 2. LOW BANK PRESSURE SWITCHES ALARM AT 500 PSIG.
 3. REGULATOR "B" IN THE WALL MOUNTED CONTROL STATION MAINTAINS 75 PSIG IN THE GENERATOR.
 4. THE EMERGENCY CROSSOVER CONNECTION WITH UNIT NO. 2 MAY BE USED TO TRANSFER QUANTITIES OF LOW PRESSURE HYDROGEN TO OR FROM UNIT NO. 3 DURING GENERATOR FILLING OPERATIONS OR AS AN EMERGENCY SOURCE OF SUPPLY.
 5. THIS DWG. SHOWS VALVE POSITIONS WITH #31 H2 DRYER IN OPERATION AND #32 DRYER ISOLATED. FOR VALVE POSITIONS REQUIRED FOR VARIOUS MODES OF OPERATION, REFER TO COL-TG-2.

NOTES:
EXCESS FLOW VALVE

39 INCORPORATED EC-71216
4/14/17

DWG NO	9321-F-20403	REV	39
SHEET			
DATE	4/14/17	BY	CHK'D
DISCIPLINE	ENG	APPROVAL	
DISCIPLINE MGR.			
PROJ APPROVAL			
DATE			



TYPE A/FSAR

9321-20443



- GENERAL NOTES:**
1. SUBCONTRACTOR OF BULK HYDROGEN SYSTEM SHALL SUPPLY ALL MATERIALS, FABRICATE, CONTROL, CABINET AND PREFABRICATED STORAGE TUBES, MANIFOLD, VALVES AND FURNISH JOINT BETWEEN STORAGE TUBES & CONTROL CABINET & DISCONNECTOR. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FIELD FABRICATION. 1/2" SUPPLY PIPING SHALL BE FURNISHED BY FIELD.
 2. PIPING SHALL BE IN ACCORDANCE WITH *AISC SPECIFICATION 15-10-01*
 3. ALL PIPING FURNISHED BY SUB-CONTRACTOR (HE SYSTEM) WILL BE BLACK PIPE OR CORROSION TUBING.
 4. (C) INDICATED: MAN PENETRATIONS: NUMBERS 1-1000
IN 1521-F, 15442

LEGEND:

----- PIPING SUPPLIED BY FIELD
----- PIPING SUPPLIED BY SUB-CONTRACTOR

REFERENCE DWG'S.

- 9321-F-20405 FLOW DIAGRAM - H₂ & CO₂
9321-F-20428 INTAKE STRUCT. - H₂ & CO₂ PIPING - BHT.
9321-F-21118 INTAKE STRUCT. - CHLORINATION PIPING
9321-F-21282 YARD AREA - COMPOSITE PIPING
9321-F-21453 TURB & HYD BAY FLOOR PENETRATIONS
9321-F-20445 INTAKE STRUCT. (UNIT⁶) H₂ & CO₂ PIPING
3-07-poc 1 YARD SERVICE PIPING H₂ & CO₂
3-07-poc 2 YARD SERVICE PIPING H₂ & CO₂

FOREIGN PRINTS:

- 0321-05-20102 H2 BOTTLE.
0321-05-20099 H2 CONTROL CABINET.
0321-05-20101 H2 VENT TUBING & MANIFOLD.

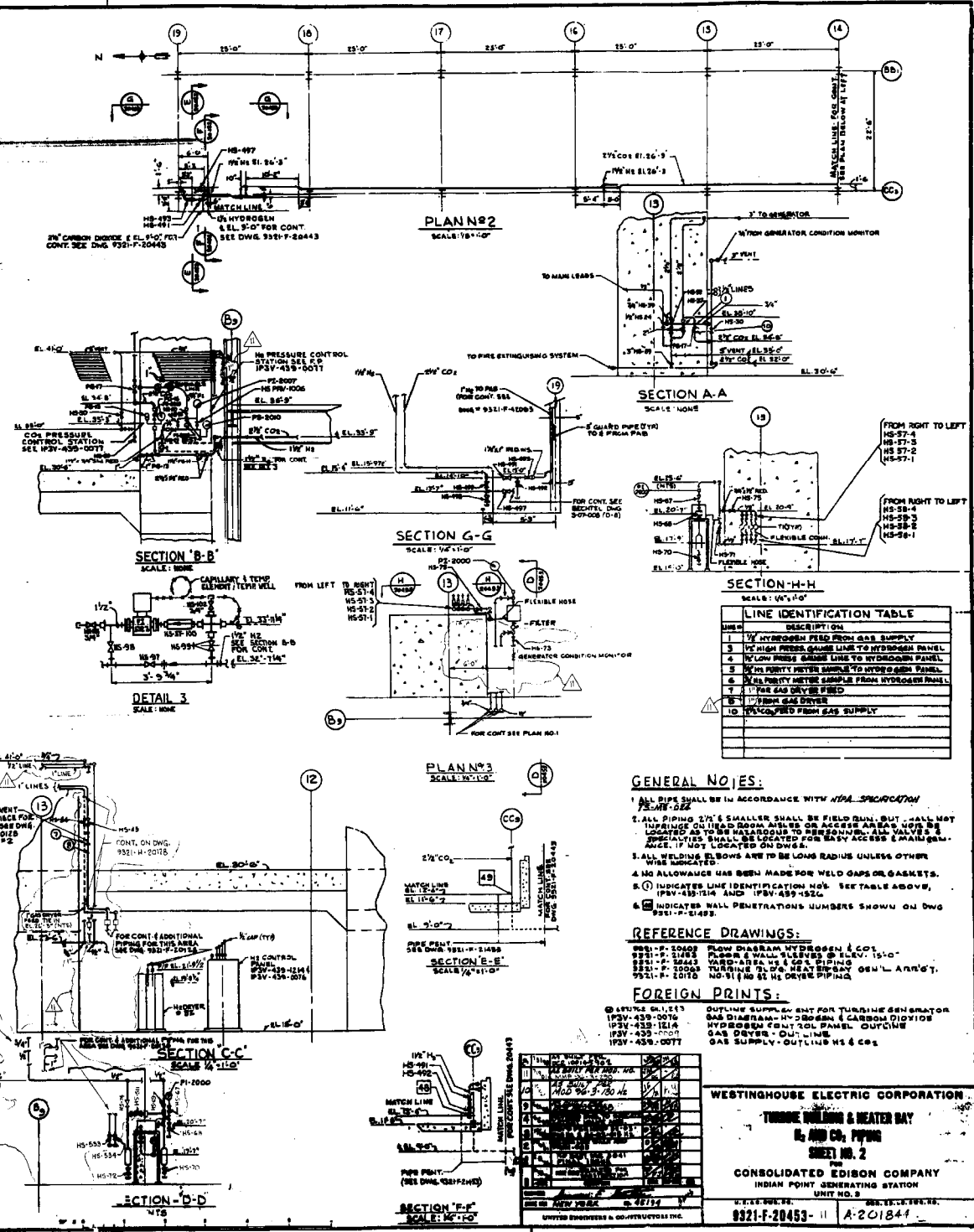
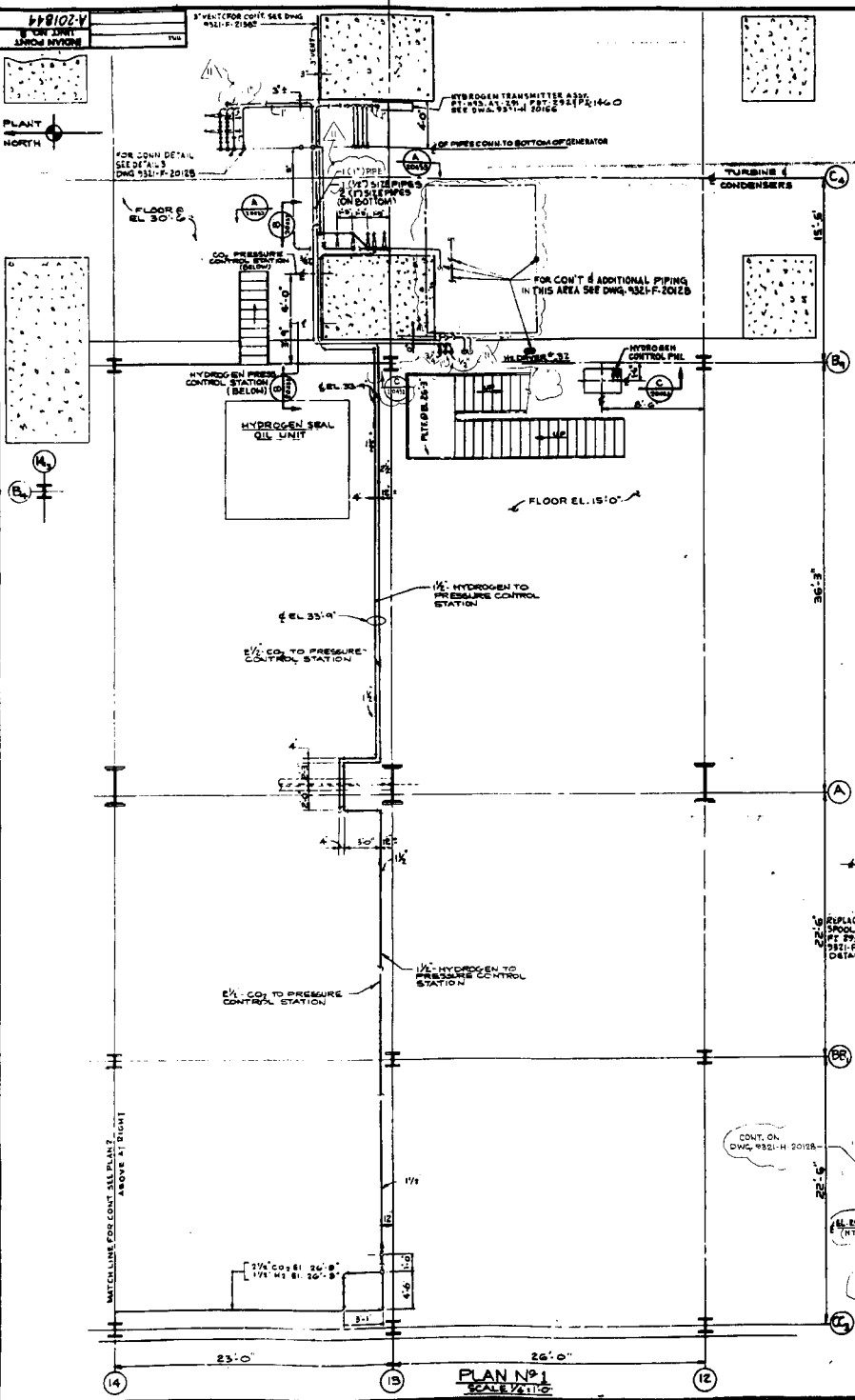
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WESTINGHOUSE ELECTRIC CORPORATION
YARD AREA
H₂ AND CO₂ PIPING
SHEET NO. 1
FOR
CONSOLIDATED EDISON COMPANY
INDIAN POINT GENERATING STATION
UNIT NO. 3
U.E.C. DWG. NO. 8321-F-20443-9 ECH. ED. CO. DWG. NO. A-701843

1/11/1 0000

1/11/1 0000

1/11/1 0000



LINE IDENTIFICATION TABLE	
LINE NO.	DESCRIPTION
1	HYDROGEN FIELD FROM GAS SUPPLY
2	1/2" HIGH PRESS. GASE LINE TO HYDROGEN PANEL
3	1/2" LOW PRESS. GASE LINE TO HYDROGEN PANEL
4	1/2" PURITY METER SAMPLE TO HYDROGEN PANEL
5	1/2" PURITY METER SAMPLE FROM HYDROGEN PANEL
6	1/2" GAS DRYER FIELD
7	1/2" FROM GAS DRYER
8	1/2" TO GAS DRYER
9	1/2" TO GAS DRYER
10	1/2" TO GAS DRYER

GENERAL NOTES:

- ALL PIPE SHALL BE IN ACCORDANCE WITH NIPAL SPECIFICATION
- ALL PIPING 2" & SMALLER SHALL BE FIELD BUILT. BUT SHALL NOT IMPROVE OUTLETS FROM ABOVE OR ACCESS AREAS. WELD BE LOCATED AS TO BE MAINTENANCE TO PERSONNEL. ALL VALVES & ACCESSORIES SHALL BE LOCATED FOR EASY ACCESS & MAINTENANCE. IF NOT LOCATED ON DWG. 61.
- ALL WELDING ELBOWS ARE TO BE LONG RADIUS UNLESS OTHER
- NO ALLOWANCE HAS BEEN MADE FOR WELD CAPS OR GASKETS.
- ① INDICATES LINE IDENTIFICATION NO. SEE TABLE ABOVE, (PVS-439-124 AND PVS-439-126)
- ② INDICATES WALL PENETRATIONS NUMBERS SHOWN ON DWG. 9321-P-21493.

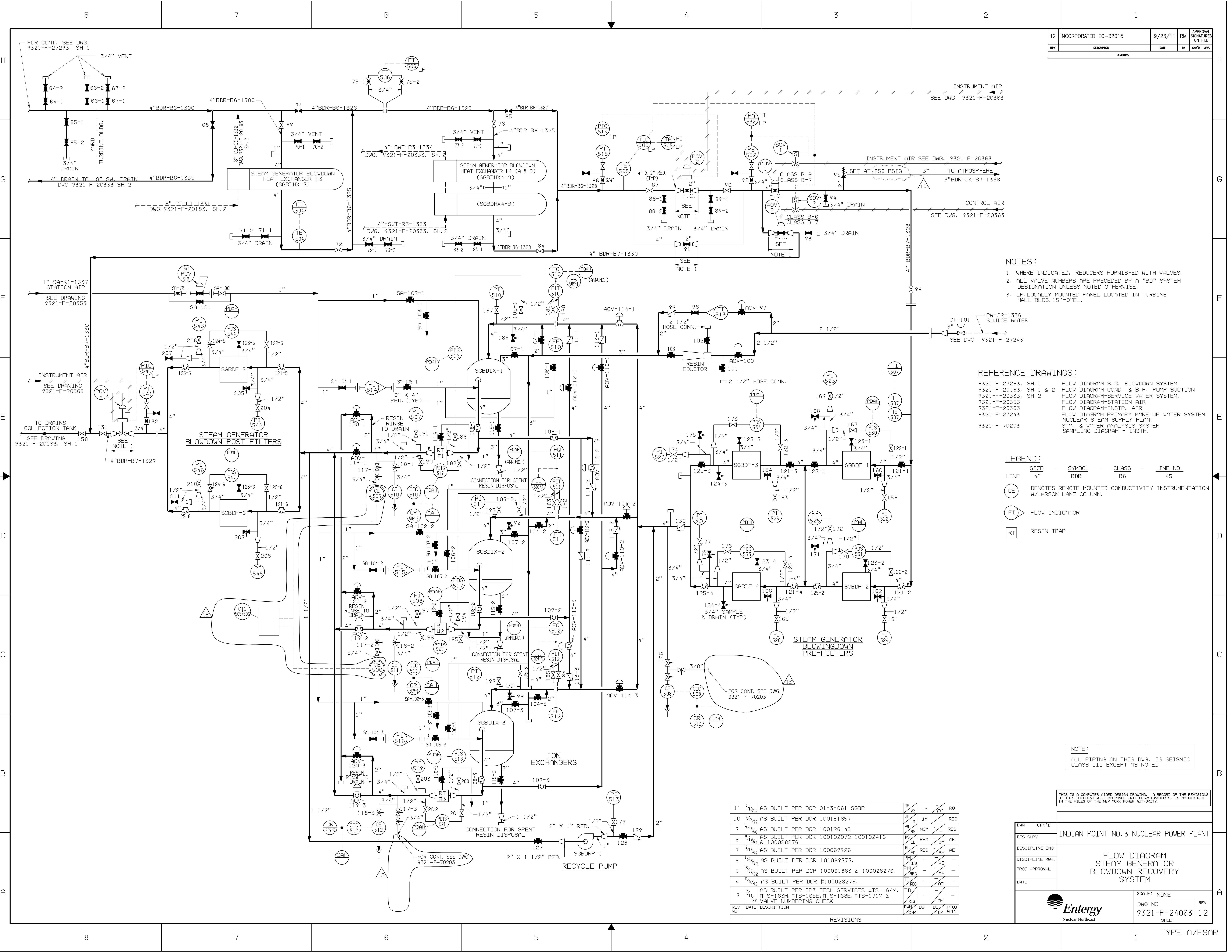
REFERENCE DRAWINGS:

9321-P-20006 FLOW DIAGRAM HYDROGEN & CO₂
 9321-P-21493 PIPING & WALL SLICES @ EL. 15'-0"
 9321-P-22443 WARD AREA HS & CO₂ PIPING
 9321-P-20006 TURBINE & HEAT EXCHANGER GEN'L ARR'G'T.
 9321-P-20120 NO. 81 (NO. 81) DRYER PIPING

FOREIGN PRINTS:

① 9321-P-21493 OUTLINE SUPPLY FOR TURBINE GENERATOR
 9321-P-20006 GAS DIAPHRAGM HYDROGEN & CARBON DIOXIDE
 9321-P-22443 WARD AREA HS & CO₂ PIPING
 9321-P-20006 TURBINE & HEAT EXCHANGER GEN'L ARR'G'T.
 9321-P-20120 NO. 81 (NO. 81) DRYER PIPING

WESTINGHOUSE ELECTRIC CORPORATION
TURBINE, GENERATOR & HEATER BAY
INDIAN POINT GENERATING STATION
UNIT NO. 2
8321-F-20453-11 A-20184



12	INCORPORATED EC-32015	9/23/11	RM	APPROVAL SIGNATURES ON FILE
REV	DESCRIPTION	DATE	BY	CHKD APP.

- NOTES:
- WHERE INDICATED, REDUCERS FURNISHED WITH VALVES.
 - ALL VALVE NUMBERS ARE PRECEDED BY A "BD" SYSTEM DESIGNATION UNLESS NOTED OTHERWISE.
 - LP: LOCALLY MOUNTED PANEL LOCATED IN TURBINE HALL BLDG. 15'-0" EL.

- REFERENCE DRAWINGS:
- 9321-F-27293, SH. 1 FLOW DIAGRAM-COND. & B.F. PUMP SUCTION
 - 9321-F-20183, SH. 1 & 2 FLOW DIAGRAM-SERVICE WATER SYSTEM.
 - 9321-F-20333, SH. 2 FLOW DIAGRAM-STATION AIR
 - 9321-F-20353 FLOW DIAGRAM-INSTR. AIR
 - 9321-F-20363 FLOW DIAGRAM-PRIMARY MAKE-UP WATER SYSTEM
 - 9321-F-27243 STM. & WATER ANALYSIS SYSTEM
 - 9321-F-70203 SAMPLING DIAGRAM - INSTM.

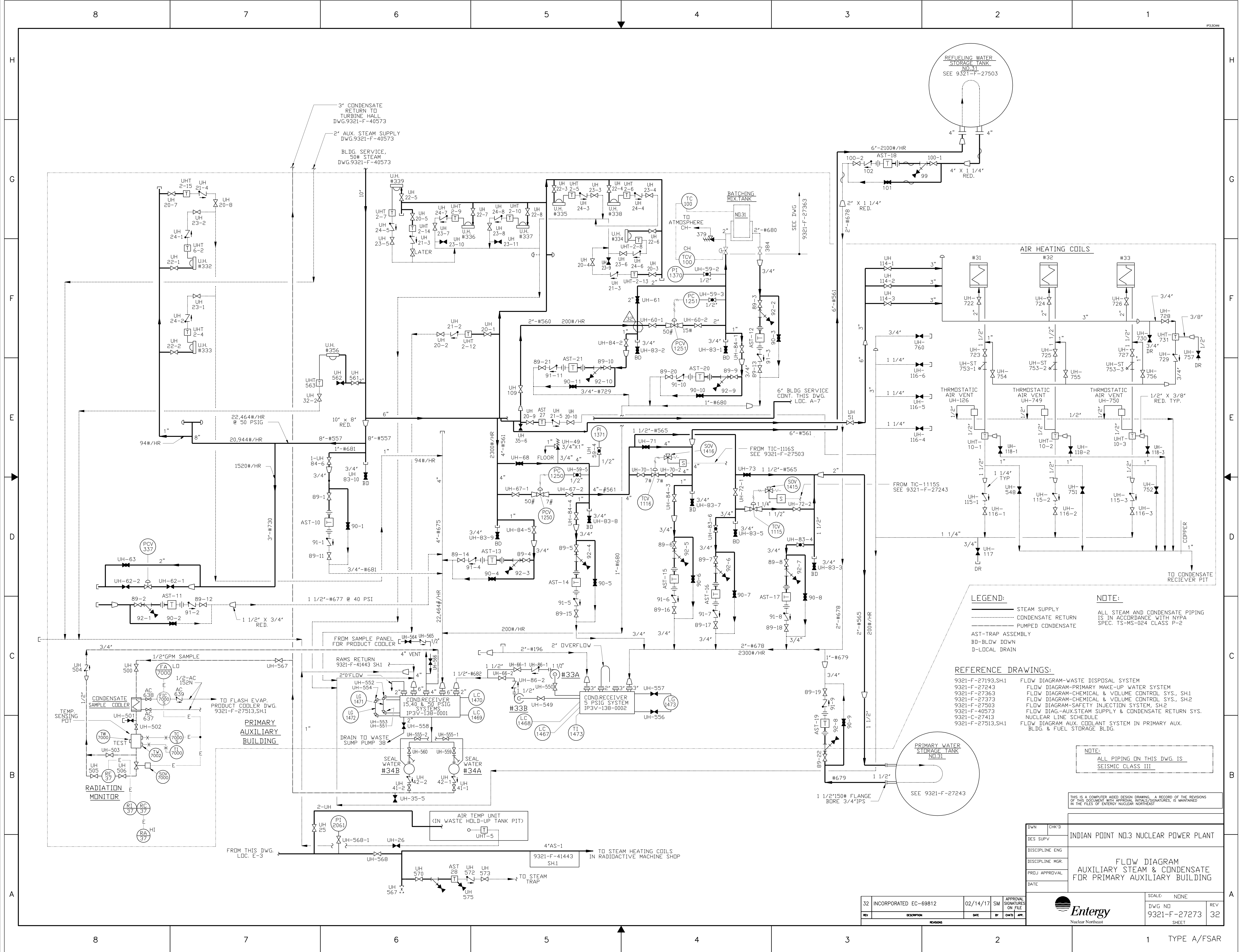
- LEGEND:
- | LINE | SIZE | SYMBOL | CLASS | LINE NO. |
|------|------|--------|-------|----------|
| 4" | BDR | | B6 | 45 |
- CE DENOTES REMOTE MOUNTED CONDUCTIVITY INSTRUMENTATION W/LARSON LANE COLUMN.
- FI FLOW INDICATOR
- RT RESIN TRAP

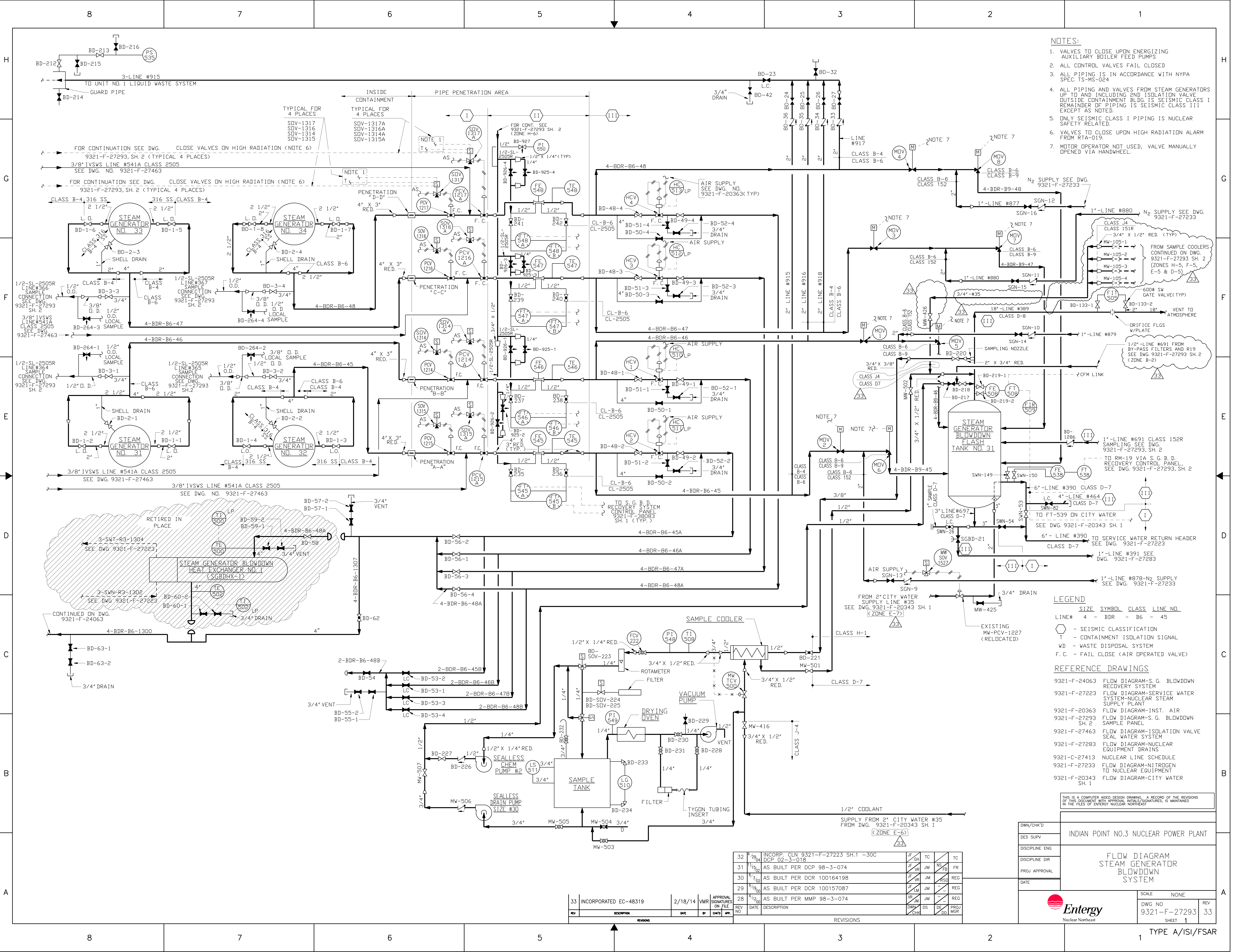
NOTE:
ALL PIPING ON THIS DWG. IS SEISMIC CLASS III EXCEPT AS NOTED

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REV NO	DATE	DESCRIPTION	DWN	CHKD	DS	DE	DM	PROJ APP.
11	7/10/00	AS BUILT PER DCP 01-3-061 SGBR	JF	VR	LM			RG
10	5/29/99	AS BUILT PER DCR 100151657	JF	VR	LM	JM		REG
9	4/15/98	AS BUILT PER DCR 100126143	VR	SM	MSM			
8	9/16/94	AS BUILT PER DCR 100102072, 100102416 & 100028276	KS	ED	REG		BY	AE
7	2/13/94	AS BUILT PER DCR 100069926	RL	ED	REG		BY	AE
6	3/23/92	AS BUILT PER DCR 100069373.	PM	REG			AE	
5	8/17/92	AS BUILT PER DCR 100061883 & 100028276.	PM	REG			AE	
4	6/18/92	AS BUILT PER DCR #100028276.	TD	REG			AE	
3	1/1/89	AS BUILT PER IP3 TECH SERVICES HTS-164M, HTS-163M, HTS-165E, HTS-168E, HTS-171M & VALVE NUMBERING CHECK	REG				AE	

DWN	CHK'D	INDIAN POINT NO. 3 NUCLEAR POWER PLANT
DES SUPV		
DISCIPLINE ENG		
DISCIPLINE MGR.		
PROJ APPROVAL		
DATE		
Entergy Nuclear Northeast		SCALE: NONE DWG NO 9321-F-24063 SHEET 12





- NOTES:
1. VALVES TO CLOSE UPON ENERGIZING AUXILIARY BOILER FEED PUMPS
 2. ALL CONTROL VALVES FAIL CLOSED
 3. ALL PIPING IS IN ACCORDANCE WITH NYPA SPEC. TS-MS-024
 4. ALL PIPING AND VALVES FROM STEAM GENERATORS UP TO AND INCLUDING 2ND ISOLATION VALVE OUTSIDE CONTAINMENT BLDG. IS SEISMIC CLASS I. REMAINDER OF PIPING IS SEISMIC CLASS III EXCEPT AS NOTED.
 5. ONLY SEISMIC CLASS I PIPING IS NUCLEAR SAFETY RELATED.
 6. VALVES TO CLOSE UPON HIGH RADIATION ALARM FROM RTA-019.
 7. MOTOR OPERATOR NOT USED, VALVE MANUALLY OPENED VIA HANDWHEEL.

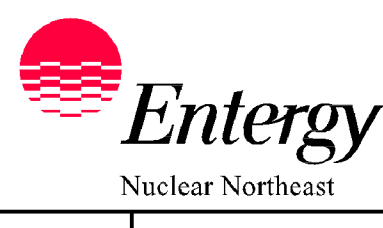
- LEGEND
- | SIZE | SYMBOL | CLASS | LINE NO. |
|------|--------|-------|----------|
| 4" | - BDR | - B6 | - 45 |
- LINE# 4 - BDR - B6 - 45
- SEISMIC CLASSIFICATION
- CONTAINMENT ISOLATION SIGNAL
- WASTE DISPOSAL SYSTEM
- FAIL CLOSE (AIR OPERATED VALVE)
- REFERENCE DRAWINGS
- | DWG NO. | DESCRIPTION |
|--------------------|--|
| 9321-F-24063 | FLOW DIAGRAM-S.G. BLOWDOWN RECOVERY SYSTEM |
| 9321-F-27223 | FLOW DIAGRAM-SERVICE WATER SYSTEM-NUCLEAR STEAM SUPPLY PLANT |
| 9321-F-20363 | FLOW DIAGRAM-INST. AIR |
| 9321-F-27293 SH. 2 | FLOW DIAGRAM-S.G. BLOWDOWN SAMPLE PANEL |
| 9321-F-27463 | FLOW DIAGRAM-ISOLATION VALVE SEAL WATER SYSTEM |
| 9321-F-27293 | FLOW DIAGRAM-NUCLEAR EQUIPMENT DRAINS |
| 9321-C-27413 | NUCLEAR LINE SCHEDULE |
| 9321-F-27233 | FLOW DIAGRAM-NITROGEN TO NUCLEAR EQUIPMENT |
| 9321-F-20343 SH. 1 | FLOW DIAGRAM-CITY WATER |

THIS IS A COMPUTER AIDED DESIGN DRAWING. A RECORD OF THE REVISIONS OF THIS DOCUMENT WITH APPROVAL SIGNATURES, IS MAINTAINED IN THE FILES OF ENERGY NUCLEAR NORTH EAST

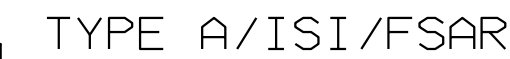
DWN/CHK'D	DES. SUPV	DISCIPLINE ENG	DISCIPLINE DIR	PROJ. APPROVAL	DATE
INDIAN POINT NO.3 NUCLEAR POWER PLANT					
FLOW DIAGRAM STEAM GENERATOR BLOWDOWN SYSTEM					
SCALE		NONE		DWG NO	
9321-F-27293		REV		33	
SHEET		1			

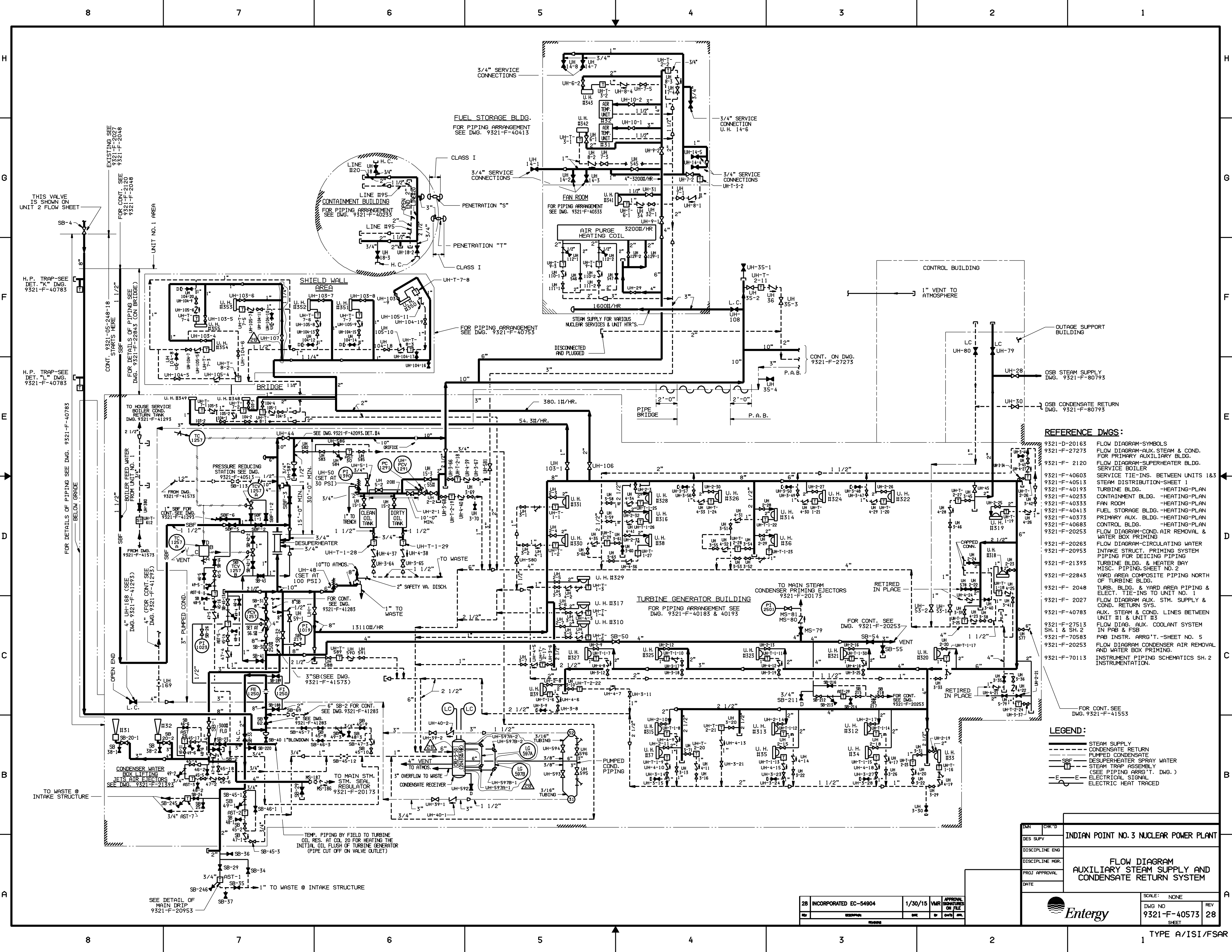
REV	DESCRIPTION	DATE	BY	CHK	APP	REV	DATE	DESCRIPTION	DWN	CHK	DES	PROJ	MGR
32	INCORP. CLN 9321-F-27223 SH.1 -30C	2/18/14	VMR			28	AS BUILT PER MMP 98-3-074						
31	DCP 02-3-018					30	AS BUILT PER DCR 100164198						
30	AS BUILT PER DCP 98-3-074					29	AS BUILT PER DCR 100157087						
29	AS BUILT PER DCR 100157087					28	AS BUILT PER MMP 98-3-074						

REV	DESCRIPTION	DATE	BY	CHK	APP
33	INCORPORATED EC-48319	2/18/14	VMR		



TYPE A/ISI/FSAR





- REFERENCE DWGS:**
- 9321-D-20163 FLOW DIAGRAM-SYMBOLS
 - 9321-F-27273 FLOW DIAGRAM-AUX. STEAM & COND. FOR PRIMARY AUXILIARY BLDG.
 - 9321-F-2120 FLOW DIAGRAM-SUPERHEATER BLDG. SERVICE BOILER
 - 9321-F-40603 SERVICE TIE-INS. BETWEEN UNITS 1&3
 - 9321-F-40513 STEAM DISTRIBUTION-SHEET 1
 - 9321-F-40193 TURBINE BLDG. -HEATING-PLAN
 - 9321-F-40233 CONTAINMENT BLDG. -HEATING-PLAN
 - 9321-F-40333 FAN ROOM -HEATING-PLAN
 - 9321-F-40413 FUEL STORAGE BLDG. -HEATING-PLAN
 - 9321-F-40373 PRIMARY AUX. BLDG. -HEATING-PLAN
 - 9321-F-40683 CONTROL BLDG. -HEATING-PLAN
 - 9321-F-20253 FLOW DIAGRAM-COND. AIR REMOVAL & WATER BOX PRIMING
 - 9321-F-20263 FLOW DIAGRAM-CIRCULATING WATER
 - 9321-F-20953 INTAKE STRUCT. PRIMING SYSTEM PIPING FOR DEICING PIPING
 - 9321-F-21393 TURBINE BLDG. & HEATER BAY
 - 9321-F-22843 MISC. PIPING SHEET NO. 2
 - 9321-F-2048 YARD AREA COMPOSITE PIPING NORTH OF TURBINE BLDG.
 - 9321-F-2027 TURB. BLDG. & YARD AREA PIPING & ELECT. TIE-INS TO UNIT NO. 1
 - 9321-F-40783 FLOW DIAGRAM AUX. STM. SUPPLY & COND. RETURN SYS.
 - 9321-F-27513 AUX. STEAM & COND. LINES BETWEEN UNIT #1 & UNIT #3
 - 9321-F-70583 PAB INSTR. ARR'G'T.-SHEET NO. 5
 - 9321-F-20253 FLOW DIAGRAM CONDENSER AIR REMOVAL AND WATER BOX PRIMING.
 - 9321-F-70113 INSTRUMENT PIPING SCHEMATICS SH. 2 INSTRUMENTATION.
- FOR CONT. SEE DWG. 9321-F-41553

- LEGEND:**
- STEAM SUPPLY
 - CONDENSATE RETURN
 - PUMPED CONDENSATE
 - DESUPERHEATER SPRAY WATER
 - STEAM TRAP ASSEMBLY (SEE PIPING ARR'G'T. DWG.)
 - ELECTRIC SIGNAL
 - ELECTRIC HEAT TRACED

INDIAN POINT NO. 3 NUCLEAR POWER PLANT	
FLOW DIAGRAM AUXILIARY STEAM SUPPLY AND CONDENSATE RETURN SYSTEM	
SCALE: NONE	
DWG NO 9321-F-40573	REV 28
SHEET	
TYPE A/ISI/FSAR	

DAN	CHK'D
DES SUPV	
DISCIPLINE ENG	
DISCIPLINE MGR	
PROJ APPROVAL	
DATE	

28	INCORPORATED EC-54904	1/30/15	VMR	APPROVAL
REV	DESCRIPTION	DATE	BY	CHK'D