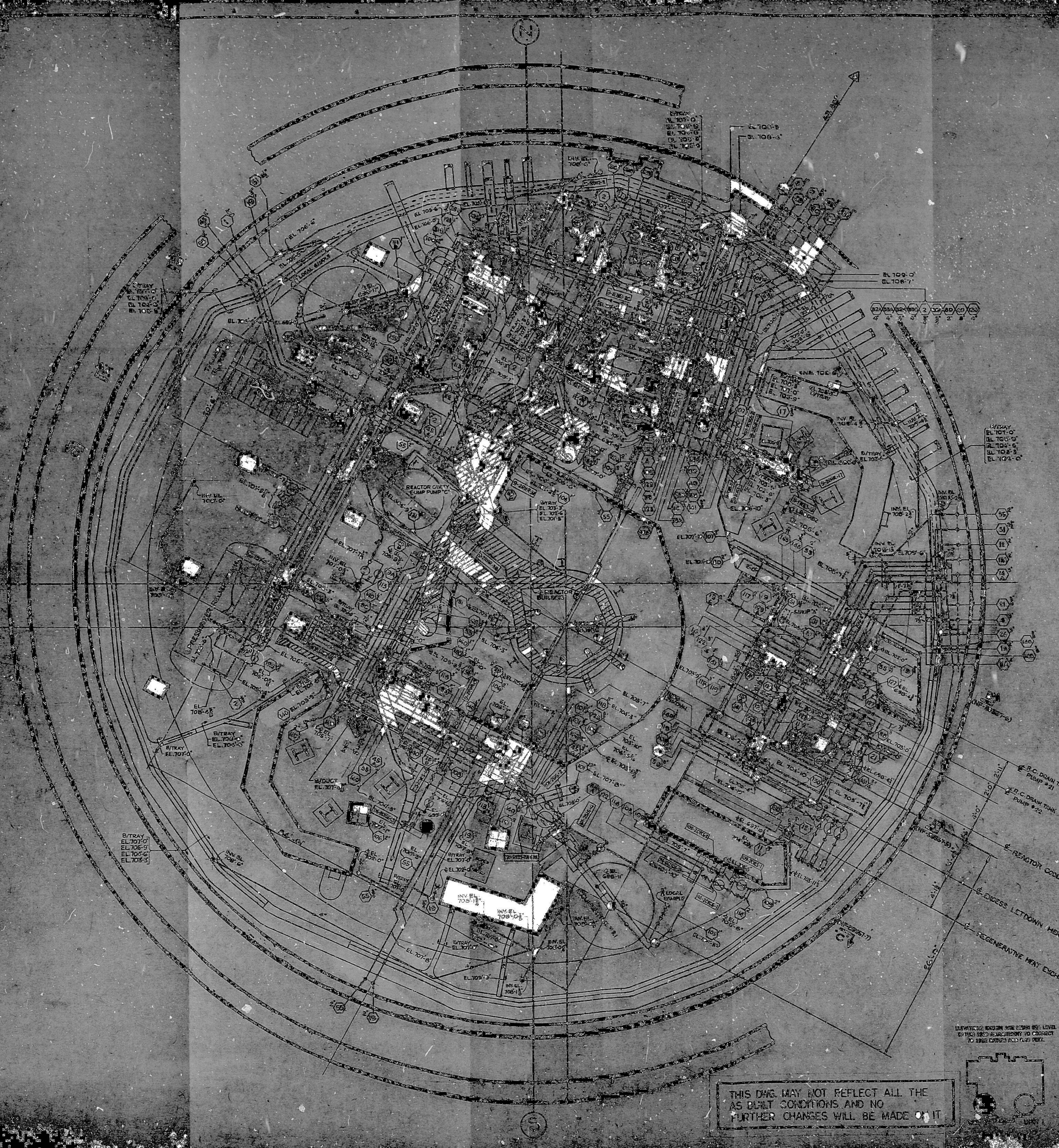


THIS DWG. MAY NOT REFLECT ALL THE AS BUILT CONDITIONS AND NO FURTHER CHANGES WILL BE MADE ON IT

ELEVATIONS SHOWN ARE MEAN SEA LEVEL DATUM 1912 ADJUSTMENT TO CORRECT TO 1929 DATUM ADD 0.49 FEET.

TERA APERTURE CARD

[illegible]TRATION AND LINE [illegible]

[illegible]	[illegible]	[illegible]	[illegible]	SYSTEM	DESCRIPTION
—	[illegible]	[illegible]	[illegible]	RC	PRESS. [illegible]
—	[illegible]	[illegible]	[illegible]	RC/NS	[illegible]
—	4	[illegible]	[illegible]	WL	PRIMARY SYSTEM [illegible]
—	[illegible]	[illegible]	[illegible]	WL	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	SB	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	SB	[illegible] GENERATOR #22 BLOWDOWN
2"	9	[illegible]	[illegible]	RH	RESIDUAL HEAT FROM [illegible] - LOOP "A"
2"	—	[illegible]	[illegible]	RH	RESIDUAL HEAT FROM HOT LEG - LOOP "B"
2"	10	10	[illegible]	RH/SI	R.H. TO COLD LEG - R.C. [illegible]
1"	11	11A	[illegible]	VC	LET DOWN FROM REGEN. HEAT EXCHANGER
1"	—	11B	[illegible]	VC	FROM LINE #10 TO LINE #11A
—	12	12	[illegible]	VC	CHARGING LINE TO REGEN. HEAT EXCHANGER
—	13A	13A	[illegible]	VC	R.C. PUMP #21 SEAL WATER [illegible]
—	13B	13B	[illegible]	VC	R.C. PUMP #22 SEAL WATER [illegible]
1"	14	14A	[illegible]	VC	R.C. PUMP #21 SEAL WATER [illegible]
1"	—	14B	2"	VC	R.C. PUMP #22 SEAL WATER [illegible]
[illegible]	15	15	[illegible]	RC/SM	PRESSURIZER STEAM SAMPLE LINE
[illegible]	16	16	[illegible]	RC/SM	PRESSURIZER LIQUID SAMPLE LINE
[illegible]	17	17	[illegible]	RC/SM	SAMPLE LINE FROM LOOP "B" HOT LEG
—	19	19	[illegible]	SA	STATION AIR HEADER
—	20	—	—	(INSTR.)	INSTRUMENT AIR HEADER
—	21	21	[illegible]	WL	R.C. DR. TANK TO GAS ANALYZER
—	[illegible]	[illegible]	[illegible]	WL	SUMP "A" PUMP DISCHARGE
—	55	55	[illegible]	DE	DEMINERALIZED WATER HEADER
—	[illegible]	[illegible]	6"-3"-2"	SI	SAFETY INJECTION TO R.V.
—	[illegible]	[illegible]	6"-3"-2"	SI	SAFETY INJECTION TO COLD LEG "A" & "B"
—	[illegible]	[illegible]	6"	CS	INTERNAL CONTAINMENT SPRAY HEADER
—	31	31A	1"	SI/NG	NG TO ACCUMULATOR #21
—	—	31B	1"	SI/NG	NG TO ACCUMULATOR #22
—	32A	32A	[illegible]	CC	COMPONENT CLG. WTR. TO R.C. PUMP #21
—	32B	32B	[illegible]	CC	COMPONENT CLG. WTR. TO R.C. PUMP #22
—	33A	33A	[illegible]	CC	COMPONENT CLG. WTR. FROM R.C. PUMP #21
—	33B	33B	[illegible]	CC	COMPONENT CLG. WTR. FROM R.C. PUMP #22
—	35	35A	[illegible]	SI	TEST LINE FROM LINE #[illegible]
—	—	35B	[illegible]	SI	TEST LINE FROM LINE #[illegible] TO LINE #35A
—	37A	37A	[illegible]	CL	CLG. WTR. TO CONTAINMENT FAN COIL UNIT #21
—	37B	37B	[illegible]	CL	CLG. WTR. TO CONTAINMENT FAN COIL UNIT #22
—	37C	37C	[illegible]	CL	CLG. WTR. TO CONTAINMENT FAN COIL UNIT #23
—	37D	37D	[illegible]	CL	CLG. WTR. TO CONTAINMENT FAN COIL UNIT #24
—	38A	38A	[illegible]	CL	CLG. WTR. FROM CONTAINMENT FAN COIL UNIT #21
—	38B	38B	[illegible]	CL	CLG. WTR. FROM CONTAINMENT FAN COIL UNIT #22
—	38C	38C	[illegible]	CL	CLG. WTR. FROM CONTAINMENT FAN COIL UNIT #23
—	38D	38D	[illegible]	CL	CLG. WTR. FROM CONTAINMENT FAN COIL UNIT #24
—	39	39	3"	CC	COMPONENT CLG. WTR. TO [illegible]
—	40	40	3"	CC	COMPONENT CLG. WTR. FROM [illegible]
0-1"	45	45A	[illegible]	RC/RM	REACTOR M.U. TO PRESS. RELIEF TK. & R.C. PUMP #[illegible]
1"	—	45B	[illegible]	RC/RM	FROM LINE #45A TO R.C. PUMP #22 [illegible]
[illegible]	49	49	6"-4"	SI	LOW HEAD SAFETY INJECTION TO REACTOR
—	—	100	12"	SI	ACCUM. INJ. TO COLD LEG "B" FROM ACCUM. #22
—	—	101	12"	SI	ACCUM. INJ. TO COLD LEG "A" FROM ACCUM. #21
[illegible]	—	102	6"-4"	SI	LOW HD. SAFETY INJ. TO REACTOR FROM LINE #[illegible]
—	—	103	1"	SI	ACCUM. #21 MAKE-UP FROM LINE #[illegible]
—	—	104	1"	SI	ACCUM. #22 MAKE-UP FROM LINE #[illegible]
2"	—	105	2"	RC/VC	FROM LINE #107 TO REGEN. HEAT EXCH.
0-2"	—	106	2"-3/4"	RC/WL	FROM COLD LEG "A" R.C. DR. TK. VIA LINE #[illegible]
0-2"	—	107	2"	RC/WL	FROM COLD LEG "B" TO R.C. DR. TK. VIA LINE #[illegible]
2"	—	108	1"	RC/VC	FROM LINE #106 TO EXCESS LT. DN. HT. EXCH.
[illegible]	—	109	[illegible]	VC	CHARGING LINE TO COLD LEG
[illegible]	—	111	3"	RC	FROM COLD LEG "B" TO PRESSURIZER
[illegible]	—	112	10"-6"-4"-3"	RC	FROM PRESSURIZER TO PRESS. RELIEF TANK
[illegible]	—	113	[illegible]	RC	FROM COLD LEG "A" TO LINE #[illegible]
2"	—	114	2"	RC/VC	FROM LINE #109 TO LINE #[illegible]
1"	—	115	[illegible]	VC	SEAL WTR. FROM R.C. BY-PASS PUMP #22 TO LINE #14
1"	—	116	[illegible]	VC	SEAL WTR. FROM R.C. BY-PASS PUMP #21 TO LINE #[illegible]
1"/0	—	117	6"-2"-1"	VC/WL	R.C. PUMP #21 [illegible]
—	—	118	3"-2"	[illegible]	FROM PRESS. REL. TK. TO R.C. [illegible]
1"	—	119	1"	VC	FROM EXCESS LT. DN. HT. EXCH. TO [illegible]
—	—	120	1"	WL	FROM 3-WAY VALVE #[illegible] TO LINE #[illegible]
1"	—	121	1"	VC	FROM 3-WAY VALVE #[illegible] TO LINE #[illegible]
—	—	122	3"-2"-1"	SI/WL	DRAIN LINE FROM ACCUM. #21 [illegible]
—	—	123	[illegible]	SI/WL	DRAIN LINE FROM ACCUM. [illegible]
—	—	124	[illegible]	RC	[illegible]
—	—	125	[illegible]	RC/WL	FROM PRESSURIZER RELIEF TANK TO [illegible]
—	—	126	2"-1"	WL	FROM R.C. DRAIN TANK RELIEF [illegible]
—	—	127	3"-2"	WL	FROM R.C. DRAIN TANK TO R.C. DR. PUMP [illegible]
1"/0	—	128	6"-2"-1"	VC/WL	R.C. PUMP [illegible]
—	—	129A	4"-3"-1"	WL	[illegible]
—	—	129B	[illegible]	WL	[illegible] RELIEF VALVES [illegible]
—	—	130	[illegible]	WL	[illegible]
—	—	131	1"	WL	FROM SUMP "C" TO LINE #129A
[illegible]	[illegible]	[illegible]	[illegible]	RC	[illegible]
—	—	135	[illegible]	[illegible]	REACTOR [illegible]
2"-2"	—	137	3"-2"-1"	RC	[illegible] LOOP "B"
2"-2"	—	139	3"-2"-1"	RC	R.T.D. LOOP "A"
—	—	140	1"-1/2"	[illegible]	VALVE LK-OFFS TO PRESS. REL. TK. [illegible]
—	—	141	3/4"	WL	R.C. PUMP #22 - #[illegible] LK-OFF TO LINE #[illegible]
—	—	142	[illegible]	WL	R.C. PUMP #21 - #[illegible] LK-OFF TO LINE #[illegible]
0-2"	—	143	[illegible]	RC	FROM PRESS. S.V. LOOP TO LINE #[illegible]
—	51	51	4"-2"-1½"	FP	FIRE PROTECTION HEADER
PP	—	145	3/8"	SM	STEAM GEN. #21 BLOWDOWN SAMPLE
PP	—	146	3/8"	SM	STEAM GEN. #22 BLOWDOWN SAMPLE
—	—	147	2"	CL	FROM CL HEADER 37B TO VALVE NO. 2CL-[illegible]-6 (CAPPED)
—	—	148	2"	CL	FROM CL HEADER 37C TO VALVE NO. 2CL-999-6 (CAPPED)

NOTES:
1. REFER TO PHYSICAL DWGS. FOR ELEVATIONS AND VERIFICATION OF ALL ROUTINGS.
2. ALL DIMENSIONS BETWEEN LINES ARE FOR REF. ONLY. - THE CO-ORDINATES OF PIPING END POINTS (PER PHYSICAL DWGS.) WILL DETERMINE ACTUAL DISTANCE.

LEGEND:
- ELECTRICAL TRAYS
- HEATING/VENTILATION DUCTS
- LINE NUMBER
- NOZZLE GROUP CENTER LINE
- INDICATES RESTRAINT NUMBER

41 - 59 - 2 - 84
41 - 59 - 2 - 83
41 - 50 - 2 - 82
41 - 28 - 2 - 82
41 - 27 - 2 - 82
41 - 25 - 2 - 82
41 - 24 - 2 - 69
41 - 23 - 2 - 82
41 - 22 - 2 - 82
41 - 11 - 2 - 82
37 - 60 - 2 - 31
37 - 60 - 2 - 30
53 - 12 - 2 - 01
41 - 70 - 2 - 84
41 - 59 - 2 - 89

ACCOUNT N[illegible]

FINAL ISSUE

AS BUILT DRAWING [illegible] PER OTRR

DWN CMP DATE [illegible]
CHKD [illegible]
PROJ [illegible]
FILMED 4-2[illegible]-79

[illegible]	9630			2	[illegible]
[illegible]	1	2	[illegible]	4	5

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
UNIT 1 & 2 - RED WING, MINNESOTA

REACTOR BUILDING PIPING - [illegible]
COMPOSITE ; PLAN AT EL. [illegible]

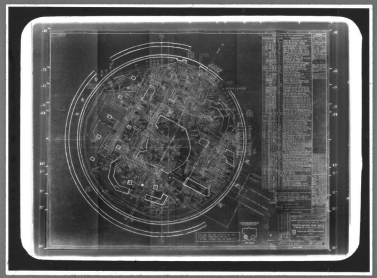
Designed By
Pioneer Service & Engineering [illegible]

NORTHERN STATES POWER COMPANY

6.5"
11"
17"
22"
34"

RDS-PDR

8102040661



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