SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [ ] - LTG. [X] - RECEPT. [X] -POWER NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 400 A 22000 A.I.C. PANEL CN-1PP1-12 VOLTAGE: [X] -120 / 208 [ ] -277 / 480 [ ] 480 /
400 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT - AMPS A	B	C	COL. #2 VOLT - AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1	20	1	SPARE	0			0			SPARE	1	20	2
3	20	1	SPARE		0			0		SPARE	1	20	4
5	20	1	SPARE			0			0	SPARE	1	20	6
7	20	1	SPARE	0			0			SPARE	1	20	8
9	20	1	SPARE		0			0		SPARE	1	20	10
11	20	1	SPARE			0			0	SPARE	1	20	12
13	20	1	SPARE	0			0			SPARE	1	20	14
15	20	1	SPARE		0			0		SPARE	1	20	16
17	20	1	SPARE			0			0	SPARE	1	20	18
19	20	1	SPARE	0			0			SPARE	1	20	20
21	20	1	SPARE		0			10000			2	50	22
23	20	1	SPARE			0			10000	LAB NANO 1A			24
25	20	1	SPARE	0			10000				2	50	26
27	20	1	SPARE		0			10000		LAB NANO 1A			28
29	20	1	SPARE			0			10000		2	50	30
31	20	1	SPARE	0			10000			LAB NANO 1A			32
33	20	1	SPARE		0			10000			2	50	34
35	20	1	SPARE			0			10000	LAB NANO 1A			36
37	20	1	SPARE	0			10000				2	50	38
39	20	1	SPARE		0			10000		LAB NANO 1A			40
41	20	1	SPARE			0			0	SPARE	1	20	42

NOTE: THIS PANEL REQUIRES DOUBLE NEUTRAL

PHASE TOTALS COL. #1	0	0	0
PHASE TOTALS COL. #2	30000	40000	30000
PHASE TOTAL VA	30000	40000	30000

TOTAL 3 PHASE CONNECTED 100 KVA 278 AMPS

SUPPLY: [ ] - BOTT. [X] - TOP [X] - LUGS [ ] -MAIN BKR. [ ] - LTG. [X] - RECEPT. [X] -POWER NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 400 A 22000 A.I.C. PANEL CN-1PP2-9 VOLTAGE: [X] -120 / 208 [ ] -277 / 480 [ ] 480 /
400 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT - AMPS A	B	C	COL. #2 VOLT - AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1				20000						SPACE			2
3	225	3	LAB NANO 1C		20000					SPACE			4
5						20000				SPACE			6
7	20	1	SPARE	0						SPACE			8
9	20	1	SPARE		0					SPACE			10
11	20	1	SPARE			0				SPACE			12
13	20	1	SPARE	0						SPACE			14
15	20	1	SPARE		0					SPACE			16
17	20	1	SPARE			0				SPACE			18
19	20	1	SPARE	0						SPACE			20
21	20	1	SPARE		0					SPACE			22
23	20	1	SPARE			0				SPACE			24
25	20	1	SPARE	0						SPACE			26
27	20	1	SPARE		0					SPACE			28
29	20	1	SPARE			0				SPACE			30
31	20	1	SPARE	0						SPACE			32
33	20	1	SPARE		0					SPACE			34
35	20	1	SPARE			0				SPACE			36
37	20	1	SPARE	0						SPACE			38
39	20	1	SPARE		0					SPACE			40
41	20	1	SPARE			0				SPACE			42

PHASE TOTALS COL. #1	20000	20000	20000
PHASE TOTALS COL. #2	0	0	0
PHASE TOTAL VA	20000	20000	20000

TOTAL 3 PHASE CONNECTED 60 KVA 167 AMPS

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [ ] - LTG. [ ] - RECEPT. [X] -POWER NEMA 1
TYPE: [ ] - 3P3W [4] - 3P4W [X] - WITH GRD. BAR MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 100 A 42000 A.I.C. PANEL CN-1FFC-1 VOLTAGE: [ ] -120 / 208 [X] -277 / 480 [ ] 480 /
100 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT - AMPS A	B	C	COL. #2 VOLT - AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1	20	1	B1-7-30 FAN FILTER UNITS	3150			2800			B1-7-33,34 FAN FILTER UNITS	1	20	2
3	20	1	B1-7-30 FAN FILTER UNITS		3150			2450		B1-7-33,34 FAN FILTER UNITS	1	20	4
5	20	1	B1-7-30 FAN FILTER UNITS			2800			2450	B1-7-33,34 FAN FILTER UNITS	1	20	6
7	20	1	B1-7-30 FAN FILTER UNITS	2800			2450			B1-7-35 FAN FILTER UNITS	1	20	8
9	20	1	B1-7-30 FAN FILTER UNITS		2800			2450		B1-7-35 FAN FILTER UNITS	1	20	10
11	20	1	B1-7-30 FAN FILTER UNITS			2450			2450	B1-7-35 FAN FILTER UNITS	1	20	12
13	20	1	SPARE	0			2800			B1-7-35,36 FAN FILTER UNITS	1	20	14
15	20	1	SPARE		0			2800		B1-7-35,36 FAN FILTER UNITS	1	20	16
17	20	1	SPARE			0			2800	B1-7-35,36 FAN FILTER UNITS	1	20	18
19	20	1	SPARE	0			1750			B1-7-34 FAN FILTER UNITS	1	20	20
21	20	1	SPARE		0			1750		B1-7-34 FAN FILTER UNITS	1	20	22
23	20	1	SPARE			0			0	SPARE	1	20	24
25	20	1	SPARE	0			0			SPARE	1	20	26
27	20	1	SPARE		0			0		SPARE	1	20	28
29	20	1	SPARE			0			0	SPARE	1	20	30
31	20	1	SPARE	0			0			SPARE	1	20	32
33	20	1	SPARE		0			0		SPARE	1	20	34
35	20	1	SPARE			0			0	SPARE	1	20	36
37	20	1	SPARE	0			0			SPARE	1	20	38
39	20	1	SPARE		0			0		SPARE	1	20	40
41	20	1	SPARE			0			0	SPARE	1	20	42

PHASE TOTALS COL. #1	5950	5950	5250
PHASE TOTALS COL. #2	9800	9450	7700
PHASE TOTAL VA	15750	15400	12950

TOTAL 3 PHASE CONNECTED 44 KVA 53 AMPS

SUPPLY: [ ] - BOTT. [X] - TOP [X] - LUGS [ ] -MAIN BKR. [ ] - LTG. [X] - RECEPT. [X] -POWER NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 400 A 22000 A.I.C. PANEL CN-1PP1-13 VOLTAGE: [X] -120 / 208 [ ] -277 / 480 [ ] 480 /
400 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT - AMPS A	B	C	COL. #2 VOLT - AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1	30	2		2666			3944				2	50	2
3			LAB NANO 1C		2666			3944		LAB NANO 1C			4
5	30	2				2666			3944		2	50	6
7			LAB NANO 1C	2666			3944			LAB NANO 1C			8
9	30	2			2666			3944			2	50	10
11			LAB NANO 1C			2666			3944	LAB NANO 1C			12
13	30	2		2666			3944				2	50	14
15			LAB NANO 1C		2666			3944		LAB NANO 1C			16
17	30	2				2666			3944		2	50	18
19			LAB NANO 1C	2666			3944			LAB NANO 1C			20
21	30	2			2666			3944			2	50	22
23			LAB NANO 1C			2666			3944	LAB NANO 1C			24
25	30	2		2666			3944				2	50	26
27			LAB NANO 1C		2666			3944		LAB NANO 1C			28
29	30	2				2666			3944		2	50	30
31			LAB NANO 1C	2666			3944			LAB NANO 1C			32
33	30	2			2666			3944			2	50	34
35			LAB NANO 1C			2666			3944	LAB NANO 1C			36
37	30	2		2666			0			SPARE	20	1	38
39			LAB NANO 1C		2666			0		SPARE	20	1	40
41	20	1	SPARE			0			0	SPARE	20	1	42

NOTE: THIS PANEL REQUIRES DOUBLE NEUTRAL

PHASE TOTALS COL. #1	18662	18662	15996
PHASE TOTALS COL. #2	23664	23664	23664
PHASE TOTAL VA	42326	42326	39660

TOTAL 3 PHASE CONNECTED 124 KVA 345 AMPS

KEY SCHEDULE

CN-1PP1-12	CN-1PP2-9	CN-1FFC-1
CN-1PP1-13		

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SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY
CHANGE CONTROL SYSTEM
ENGINEERING PROCEDURE

REV	CHANGE TYPE	CHANGE CONTROL SYSTEM	CHANGE REQUEST NUMBER	DESCRIPTION	DSN	CHK	DEPT	DATE	PE	DATE	PJ	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE	ST	CV	EC	EE	EM	IE	M	PD	SE	AR
0				CERTIFIED FOR CONSTRUCTION 12/9/02	CR	VGS						1/23/03	1/23/03				VGS	106009		RZ	AW	BWJ	AK	IM	DM	–	BWJ	–	TW

REVISION OR ISSUE PURPOSE — REVISION APPROVALS — SQUAD CHECK

RPE
VICTOR G. STEFFEN REGISTERED ENGINEER No. 106009 STATE OF TENNESSEE
REV. 0 DATE 12/9/02

DSN	C. RUNNG	12/09/02
DRW	L. MAKOVSKY	12/09/02
CHK	V. STEFFEN	12/09/02
DEPT		
PE	CLG	1/24/03
PJ	JS	1/23/03
REQ		1/24/03
UTB		

DRAWING APPROVALS

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PROJECT NAME:
CENTER FOR NANOPHASE MATERIALS SCIENCES
PANELBOARD SCHEDULES
CN-SS1

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	E	X	X	8	8610		1	1	S	U
51		52		53	A/E DRAWING NUMBER:					REV
NC		NA			E9.23.43					0

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