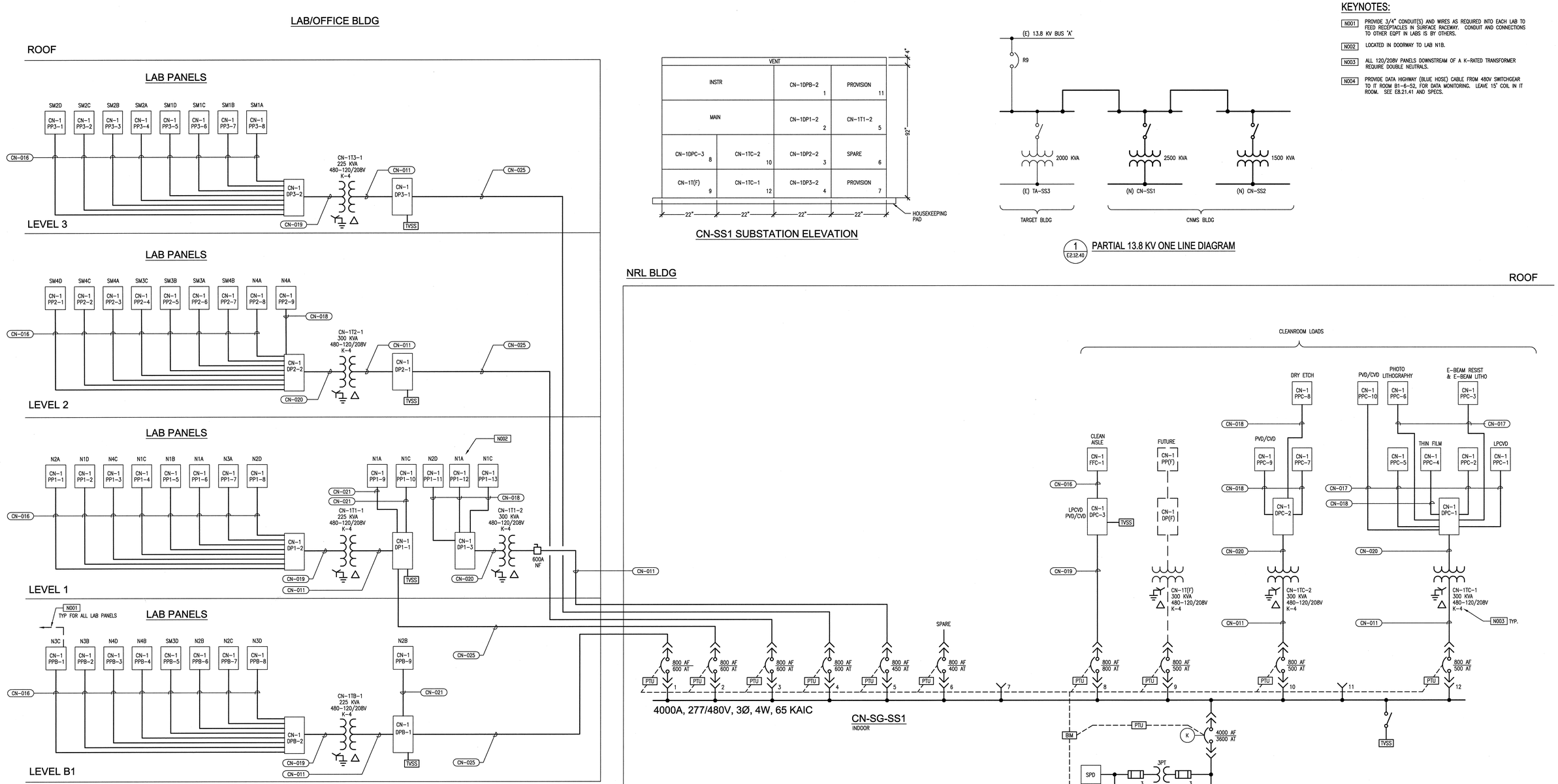

KEYNOTES:

- N001 PROVIDE 3/4" CONDUIT(S) AND WIRES AS REQUIRED INTO EACH LAB TO FEED RECEPTACLES IN SURFACE RACEWAY. CONDUIT AND CONNECTIONS TO OTHER EQPT IN LABS IS BY OTHERS.
- N002 LOCATED IN DOORWAY TO LAB N1B.
- N003 ALL 120/208V PANELS DOWNSTREAM OF A K-RATED TRANSFORMER REQUIRE DOUBLE NEUTRALS.
- N004 PROVIDE DATA HIGHWAY (BLUE HOSE) CABLE FROM 480V SWITCHGEAR TO IT ROOM B1-6-52, FOR DATA MONITORING. LEAVE 15" COIL IN IT ROOM. SEE E8.21.41 AND SPECS.

600 VOLT FEEDER SCHEDULE

TAG NO.	CONDUIT QTY/SIZE	PHASE CONDUCTORS QTY/SIZE	NEUTRAL CONDUCTOR QTY/SIZE	GROUND CONDUCTOR QTY/SIZE	REMARKS
CN-001	1-3/4"	1-#12 AWG	1-#12 AWG	1-#12 AWG	
CN-002	1-3/4"	3-#12 AWG	–	1-#12 AWG	
CN-003	1-3/4"	3-#10 AWG	–	1-#10 AWG	
CN-004	1-3/4"	3-#8 AWG	–	1-#10 AWG	
CN-005	1-1"	3-#6 AWG	–	1-#8 AWG	
CN-006	1-1 1/2"	3-#2 AWG	–	1-#6 AWG	
CN-007	1-1 1/2"	3-#1 AWG	–	1-#6 AWG	
CN-008	1-2"	3-#1/0 AWG	–	1-#6 AWG	
CN-009	1-2 1/2"	3-#4/0 AWG	–	1-#4 AWG	
CN-010	1-3"	3-350kcmil	–	1-#2 AWG	
CN-011	2-2 1/2"	6-#4/0 AWG	–	2-#4 AWG	
CN-012	2-3"	6-350 kcmil	–	2-#2 AWG	
CN-013	2-3"	6-400 kcmil	–	2-#4 AWG	
CN-014	3-3"	9-350 kcmil	–	3-#2 AWG	
CN-015	3-3 1/2"	9-500 kcmil	–	3-#2 AWG	
CN-016	1-1 1/2"	3-#2 AWG	2-#2 AWG	1-#6 AWG	
CN-017	1-3"	3-#4/0 AWG	2-#4/0 AWG	1-#4 AWG	
CN-018	2-3"	6-#4/0 AWG	4-#4/0 AWG	2-#4 AWG	
CN-019	3-3 1/2"	9-350 kcmil	6-350 kcmil	3-#2 AWG	
CN-020	3-4"	9-500kcmil	6-500 kcmil	3-#2 AWG	
CN-021	1-1 1/2"	3-#2 AWG	1-#2 AWG	1-#6 AWG	
CN-022	1-2 1/2"	3-#4/0 AWG	1-#4/0 AWG	1-#4 AWG	
CN-023	1-2"	3-#1/0 AWG	1-#1/0 AWG	1-#6 AWG	
CN-024	1-1"	3-#6 AWG	1-#6 AWG	1-#8 AWG	
CN-025	2-3"	6-#350 kcmil	2-#350 kcmil	2-#2 AWG	
CN-026	1-2"	3-#1/0 AWG	2-#1/0 AWG	1-#6 AWG	
CN-027	1-3"	3-#250kcmil	2-#250 kcmil	1-#4 AWG	

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SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY

CHANGE CONTROL SYSTEM _____

ENGINEERING PROCEDURE _____

REV	CHANGE TYPE	CHANGE CONTROL SYSTEM	CHANGE ORDER 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			MD	01/03		1/23	JSH	1/03			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 UTB — DRAWING APPROVALS

DSN	C. RUNNG	12/09/02
DRW	L. MAKOVSKY	12/09/02
CHK	V. STEFFEN	12/09/02
DEPT		
PE	CLG	12/9/02
PJ	JS	1/23/03
REQ		1/24/03

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PROJECT NAME:

CENTER FOR NANOPHASE MATERIALS SCIENCES
ELECTRICAL SINGLE LINE DIAGRAM
CN-SS1

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3 E		X	X	8	8610		1	1	P	U
51		52		53	A/E DRAWING NUMBER:					REV
NC		NA			E2.12.40					0

AutoCAD