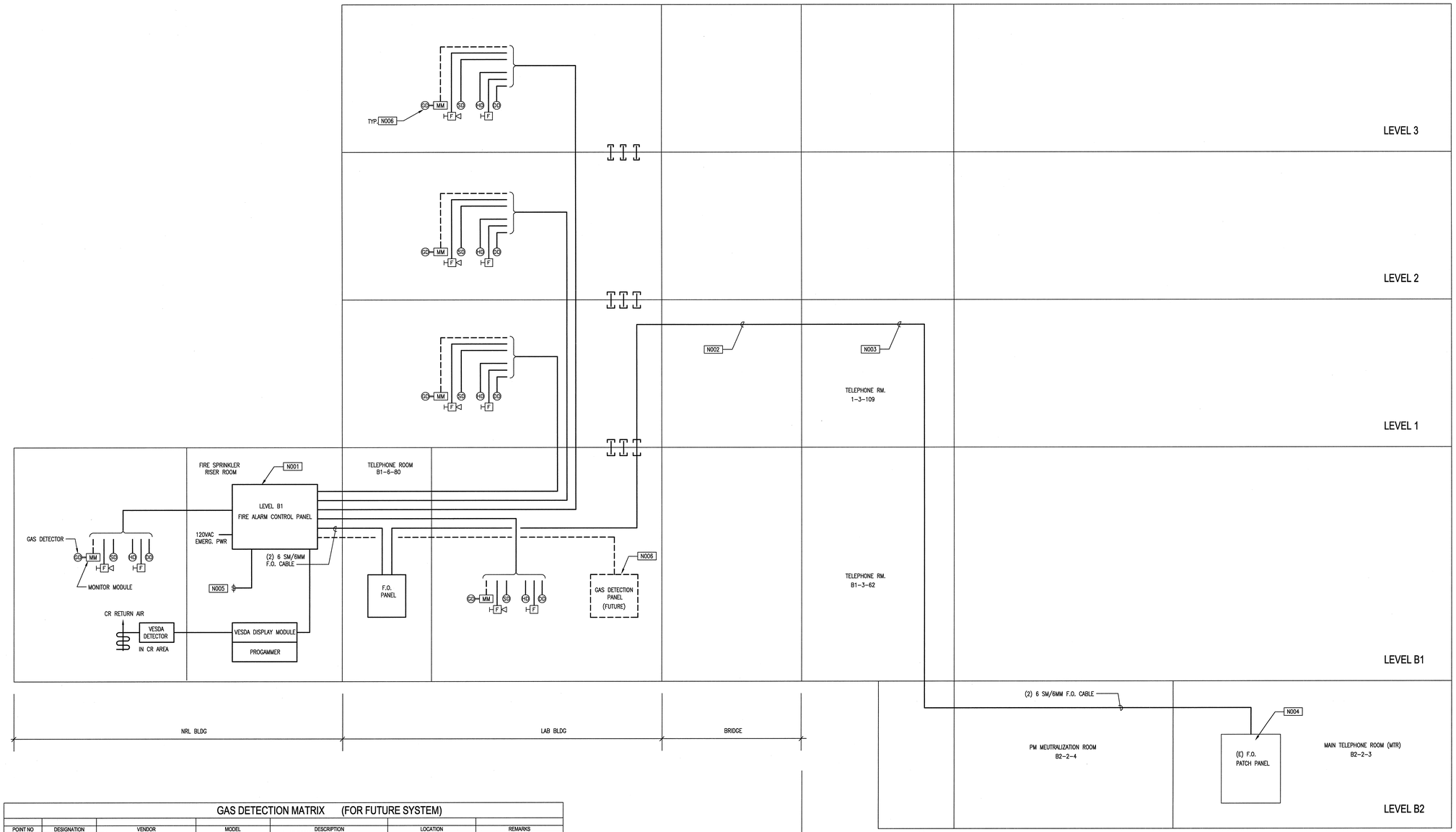
KEY NOTES:

- N001 FIRE ALARM SYSTEM IS DESIGN/BUILD.
- N002 F.A. WIRING IN CNMS WING SHALL BE INSTALLED IN SEPARATE DEDICATED CONDUIT SYSTEM STRAPPED TO BOTTOM OF SAME COMM CABLE TRAYS SHOWN ON DWG E8.21.40.
- N003 IN CLO BLDG USE SEPARATE DEDICATED CONDUIT TO RUN TO (E) TEL ROOMS.
- N004 MAKE (N) CONNECTIONS TO (E) F.O. PATCH PANEL IN CLO BLDG.
- N005 MANUAL BREAK-GLASS SWITCH TO SHUT DOWN CLEAN ROOM SMOKE FANS.
- N006 FA DESIGN/BUILD CONTRACTOR SHALL MAKE PROVISIONS FOR A FUTURE GAS DETECTION AND ALARM SYSTEM WITH GAS DETECTION POINTS LISTED IN GAS DETECTION MATRIX, THIS SHEET.



GAS DETECTION MATRIX (FOR FUTURE SYSTEM)

POINT NO	DESIGNATION	VENDOR	MODEL	DESCRIPTION	LOCATION	REMARKS
1	DR01	UNAXIS	SLR 770	DEEP SIRIE (BOSCH) ETCH	DRY ETCH BAY	
2	DR02	UNAXIS	SLR 770	RIE, CHLORINE BASED	DRY ETCH BAY	
3	DR03	TRION	ORACLE	PECVD DEP	DRY ETCH BAY	
4	DR04	STS	DEEP SIRIE	BOSCH ETCH	DRY ETCH BAY	
5	VM01	SHARON VACUUM	ELEC GUN EVAP	PVD	PVD/CVD BAY	
6	VP01	TRION	ORACLE	PECVD DEP	PVD/CVD BAY	
7	VP02	AJA	–	SPUTTER SYSTEM	PVD/CVD BAY	
8	VC01	VEECO	1201RF	ION MILL	PVD/CVD BAY	
9	FC01	TYTAN TYSTAR	LPCVD– 4 TUBE	LPCVD– 4 TUBE	LPCVD BAY	
10	FC02	TYTAN TYSTAR	OXIDE	OXIDE – 4 TUBE	LPCVD BAY	
11	GC01			GAS CABINET	CORRIDOR B1-7-21	AsH3/PH3
12	GC02			GAS CABINET	CORRIDOR B1-7-21	B2H6
13	GC03			GAS CABINET	CORRIDOR B1-7-21	SIH4
14	GC04			GAS CABINET	CORRIDOR B1-7-21	SCL4
15	GC05			GAS CABINET	CORRIDOR B1-7-21	SIH2CL2
16	GC06			GAS CABINET	CORRIDOR B1-7-21	NH3
17	GC07			GAS CABINET	CORRIDOR B1-7-21	NF3
18	GC08			GAS CABINET	CORRIDOR B1-7-21	BC13
19	GC09			GAS CABINET	CORRIDOR B1-7-21	CH4
20	GC10			GAS CABINET	CORRIDOR B1-7-21	N20
21	GC11			GAS CABINET	CORRIDOR B1-7-21	C12
22	–			VENTED GAS CABINET	ROOM B1-7-4	TOXIC GASES
23	–			VENTED GAS CABINET	ROOM B1-7-5	FLAMMABLE GASES
24	–			CHEMICALS STORAGE	ROOM B1-7-7	
25	–			WASTE STORAGE	ROOM B1-7-9	
26					ROOM B1-7-4	

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NUMBER OF SECTION OR DETAIL
DRAWING ON WHICH SECTION OR DETAIL IS SHOWN OR TAKEN
SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY
CHANGE CONTROL SYSTEM
ENGINEERING PROCEDURE

REV	CHANGE FOR	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		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. 00106868, 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		1/14/03
PJ JS		1/23/03
REQ		1/28/03
UTB		

DRAWING APPROVALS

ORNL DRAWING NUMBER:

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UT-BATTELLE, LLC, ® Oak Ridge, Tennessee

PROJECT NAME:
CENTER FOR NANOPHASE MATERIALS SCIENCES
LIFE SAFETY RISER DIAGRAM

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	E	X	X	8	8610		1	1	D	U
51		52		53	A/E DRAWING NUMBER:					REV
NC		NA			E8.21.43					0

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