KEYNOTES:

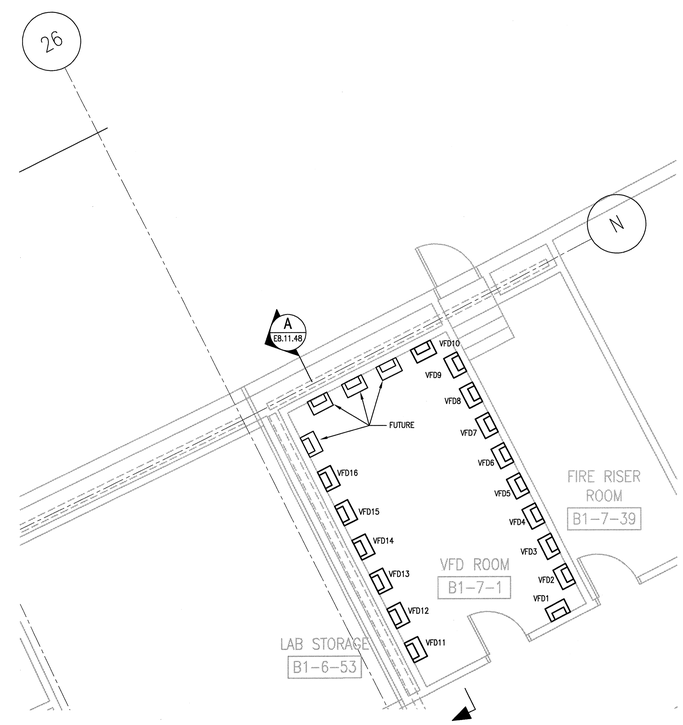
N001 EXTEND CONDUIT UP TO JB MOUNTED ON XFMR, USING 2" WP FLEX. PULL IN 6#12, 2#12G FROM CPT IN 480V SWGR FOR XFMR AND 15 KV HEATERS AND LIGHTS. PULL IN 10#14 AND 1-2/C #16 SHLD FOR CONTROLS. MAKE CONNECTIONS IN 480V SWGR AS DIRECTED BY MFR.

N002 EQUIPMENT DIMENSIONS PROVIDED ARE APPROXIMATE. ACTUAL DIMENSIONS TO DETERMINE STUB-UP LOCATIONS AND EQUIPMENT CLEARANCES SHALL BE OBTAINED FROM SHOP DRAWINGS.

N003 PROVIDE HOUSEKEEPING PAD, 4"D AND 4" LARGER THAN SWITCHGEAR IN LENGTH AND WIDTH.

N004 PROVIDE OIL CONTAINMENT TRENCH ALL AROUND AND BETWEEN SUBSTATION TRANSFORMERS. 24"w X 18"D, GRAVEL-FILLED.

1 E8.11.46 EMBEDDED CONDUIT DETAIL
1/4"=1'-0"



2 E8.11.46 VFD ROOM DETAIL
1/4"=1'-0"

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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 TYPE	CHANGE CONTROL SYSTEM	CHANGE REQUEST NUMBER	DESCRIPTION	DSN	CHK	DEPT
0				CERTIFIED FOR CONSTRUCTION 12/9/02	CR	VGS	

REVISION OR ISSUE PURPOSE

DATE	PE	DATE	PG	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE
		1/03		1/03	1/24/03				VGS	106009	

REVISION APPROVALS

RZ	AW	BWJ	AK	IM	DM	–	BWJ	–	TW
ST	CV	EC	EE	EM	IE	M	PD	SE	AR

SQUAD CHECK

RPE
VICTOR G. STEFFEN REGISTERED ENGINEER NO. 001096897 COMMONWEALTH OF TENNESSEE STATE OF TENNESSEE
1-21-03
REV. 0 DATE 12/9/02

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

DRAWING APPROVALS

ORNL DRAWING NUMBER:

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PROJECT NAME:
CENTER FOR NANOPHASE MATERIALS SCIENCES
ELECTRICAL SUBSTATION DETAILS

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3 E	X	X		8	8610		1	1	D	U
51 NC		52 NA		53	A/E DRAWING NUMBER: E8.11.46					REV 0

AutoCAD