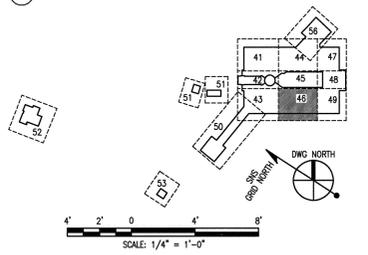


- GENERAL NOTES:**
- NOT USED.
 - ALL GROUNDING CONDUCTORS SHALL BE #4/0 STRANDED BARE COPPER (SBC), UNLESS NOTED OTHERWISE.
 - ALL GROUND CONNECTIONS SHALL BE EXOTHERMIC.
 - STUB-UP UNDERGROUND CONDUIT W/ GROUNDING BUSHING.
 - INSTALL GROUND BAR ON COLUMNS AS SHOWN. GROUND STEEL COLUMN TO THE GROUND BAR. IF INSTALLED ON THE COLUMN, UNLESS SHOWN OTHERWISE, GROUND ALTERNATE STEEL COLUMN AND REBAR DIRECTLY TO GROUND GRID CONDUCTORS.
 - LIGHTNING PROTECTION SYSTEM DOWN CONDUCTORS TO BE ATTACHED TO STRUCTURAL STEEL OR CONCRETE COLUMNS WITH UL LISTED CONNECTORS.
 - IN EACH AREA CONTAINING ELECTRICAL EQUIPMENT, ACCESS TO THE GROUNDING SYSTEM MUST BE AVAILABLE EITHER FROM STRUCTURAL STEEL OR THE BUILDING GROUND GRID.
 - ALL GROUND CONDUCTORS SHOWN WITHIN THE BUILDING ARE EMBEDDED IN THE FLOOR CONCRETE.

- SHEET KEYNOTES:**
- N001** THE INSTRUMENT GROUND PLATES IN THE UTILITY TRENCH SHALL NOT MAKE CONTACT TO METAL EXCEPT INSULATED GROUND CABLE.
 - N002** #4/0 COPPER GREEN INSULATED GROUND CABLE RATED 800V TYPE THIN EMBEDDED IN CONCRETE FLOOR SLAB.
 - N003** #4/0 STRANDED BARE COPPER (SBC) CONDUCTOR.
 - N004** MAINTAIN MINIMUM 6"-0" BETWEEN LIGHTNING GROUND WELL AND ANY FACILITY GROUND WELL/ROD.
 - N005** 28 STRANDS OF 14 GAUGE COPPER WIRE TO LIGHTNING GROUND WELL.



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SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY

CHANGE CONTROL SYSTEM 3

ENGINEERING PROCEDURE SNS-ENG-0001

REV	DATE	DESCRIPTION	DSN	CHK	DEPT	PE	DATE	FJ	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE	ST	CV	EC	EE	EM	IE	M	PD	SE	AR
2		CERTIFIED FOR CONSTRUCTION - 10/26/01	HG	VGS																						
1	A	3	1-13	DCN T - 01 THRU T - 013 - 9/21/01	HG	VGS																				
0				SUBSTRUCTURES CERTIFIED FOR CONSTRUCTION - 4/18/01	HG	VGS																				

REV	DATE	DESCRIPTION	UTB	DATE	RPE	RPE NO	DATE
2	10-24-01		J.R. LAWSON	4/19/01			

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KNIGHT
Knight Advanced Technology

UT-BATTELLE
Oak Ridge National Laboratory
managed for the DEPARTMENT OF ENERGY under
U.S. GOVERNMENT contract DE-AC05-00OR22725

PROJECT NAME:
SPALLATION NEUTRON SOURCE

TARGET BUILDING ELECTRICAL GROUNDING PLAN LEVEL 1, SECTOR 46

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	E	X	X	8	8700	1	1	P	U	
				WBS	1.8.3.7				E7.01.46	REV 2