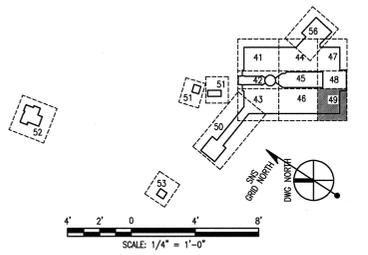


- GENERAL NOTES:**
- NOT USED.
  - ALL GROUNDING CONDUCTORS SHALL BE #4/0 STRANDED BARE COPPER (SBC), UNLESS NOTED OTHERWISE.
  - ALL GROUND CONNECTIONS SHALL BE EXOTHERMIC.
  - STUB-UP UNDERGROUND CONDUIT W/ GROUNDING BUSHING.
  - INSTALL GROUND BAR ON COLUMNS AS SHOWN. GROUND STEEL COLUMN TO THE GROUND 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:**
- NO001 MAINTAIN MINIMUM 6'-0" BETWEEN LIGHTNING GROUND WELL AND ANY FACILITY GROUND WELL/ROD.
  - NO002 28 STRANDS OF 14 GAUGE COPPER WIRE TO LIGHTNING GROUND WELL.



108030700-E8E-8700-A152

**KNIGHT**  
Knight Advanced Technology  
855-241-9433  
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**UT-BATTELLE**  
Oak Ridge National Laboratory  
managed for the DEPARTMENT OF ENERGY under  
U.S. GOVERNMENT contract DE-AC05-00OR22725  
UT-BATTELLE, LLC, Oak Ridge, Tennessee

PROJECT NAME:  
**SPALLATION NEUTRON SOURCE**

**TARGET BUILDING ELECTRICAL GROUNDING PLAN LEVEL 1, SECTOR 49**

1	48	49	50	PLANT	BLDG	FL	SH.	OF TYPE	CLASS
3	E	X	X	8	8700	1	1	P	U
51	52	53	WBS		E7.01.49				
NC	NA	NA	1.8.3.7						

REV	DATE	DESCRIPTION	DSN	CHK	DEPT	PE	DATE	PJ	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																								
1	A	3	1-13																							
0																										

NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY, COMPLETENESS OR USEFULNESS OF THE INFORMATION OR STATEMENTS CONTAINED IN THESE DRAWINGS, OR THAT THE USE OR OCCURRENCE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THESE DRAWINGS MAY NOT INFRINGE PRIVATE RIGHTS OF OTHERS. NO LIABILITY IS ASSUMED WITH RESPECT TO THE USE OF OR FOR DAMAGES RESULTING FROM THE USE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THESE DRAWINGS. DRAWINGS MADE AVAILABLE BY INFORMATION TO RECORD ARE NOT TO BE USED FOR OTHER PURPOSES AND ARE TO BE RETURNED UPON REQUEST OF THE FORMING CONTRACTOR.

THIS DOCUMENT CONTROLLED BY  
CHANGE CONTROL SYSTEM 3  
ENGINEERING PROCEDURE SNS-ENG-0001

SECTION AND DETAIL KEY

REV	DATE	DESCRIPTION	UTB	DATE	RPE	RPE NO	DATE
2	10-24-01						

NO	DATE	DESCRIPTION	UTB	DATE	RPE	RPE NO	DATE
2	10/26/01						
1	10/21/01						
0	4/18/01						

NO	DATE	DESCRIPTION	UTB	DATE	RPE	RPE NO	DATE
2	4/13/01						
1	4/13/01						
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