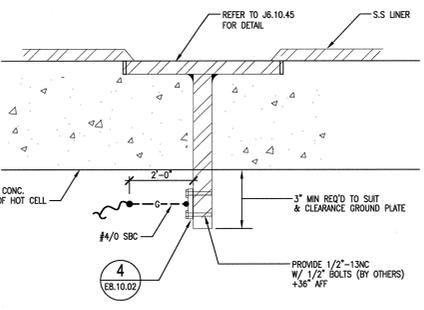
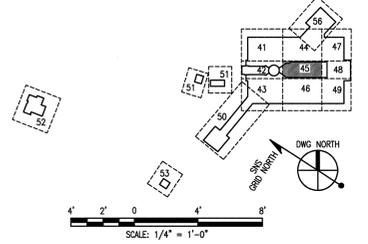


- GENERAL NOTES:**
- NOT USED.
  - ALL GROUNDING CONDUCTORS SHALL BE #4/0 STRANDED BARE COPPER (SBC), UNLESS NOTED OTHERWISE.
  - ALL GROUND CONNECTIONS SHALL BE EXOTHERMIC.
  - STUB-UP UNDERGROUND CONDUIT W/ GROUNDING BUSHING.
  - INSTALL GROUND BAR ON COLUMNS AS SHOWN. GROUND STEEL COLUMN TO THE GROUND 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** GROUND PLATE TO BE MOUNTED 10'-0" AFF. CENTERED ABOVE HOT CELL WINDOW.



**1** HOT CELL S.S. LINER GROUNDING DETAIL  
SCALE: NOT TO SCALE



108030700-E8E-8700-A148

**KNIGHT**  
Knight Advanced Technology  
701 Scarborough Road, MS 8253  
Oak Ridge, TN 37850  
865-241-8433  
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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, a Oak Ridge Tennessee

PROJECT NAME:  
**SPALLATION NEUTRON SOURCE**

**TARGET BUILDING ELECTRICAL GROUNDING PLAN LEVEL 1, SECTOR 45**

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

E7.01.45

REV	DATE	DESCRIPTION	DSN	CHK	DEPT	PE	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	DCN T - 01 THRU T - 013 - 9/21/01	HG	VGS																				
0		SUBSTRUCTURES CERTIFIED FOR CONSTRUCTION - 4/18/01	HG	VGS																				

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CHANGE CONTROL SYSTEM  
ENGINEERING PROCEDURE SNS-ENG-0001

SECTION AND DETAIL KEY

RPE  
VENDOR G. STEPHEN  
REGISTERED ENGINEER  
STATE OF TENNESSEE

2 10-24-01  
REV. DATE

UTB J.R. LAWSON 4/19/01  
DRAWING APPROVALS