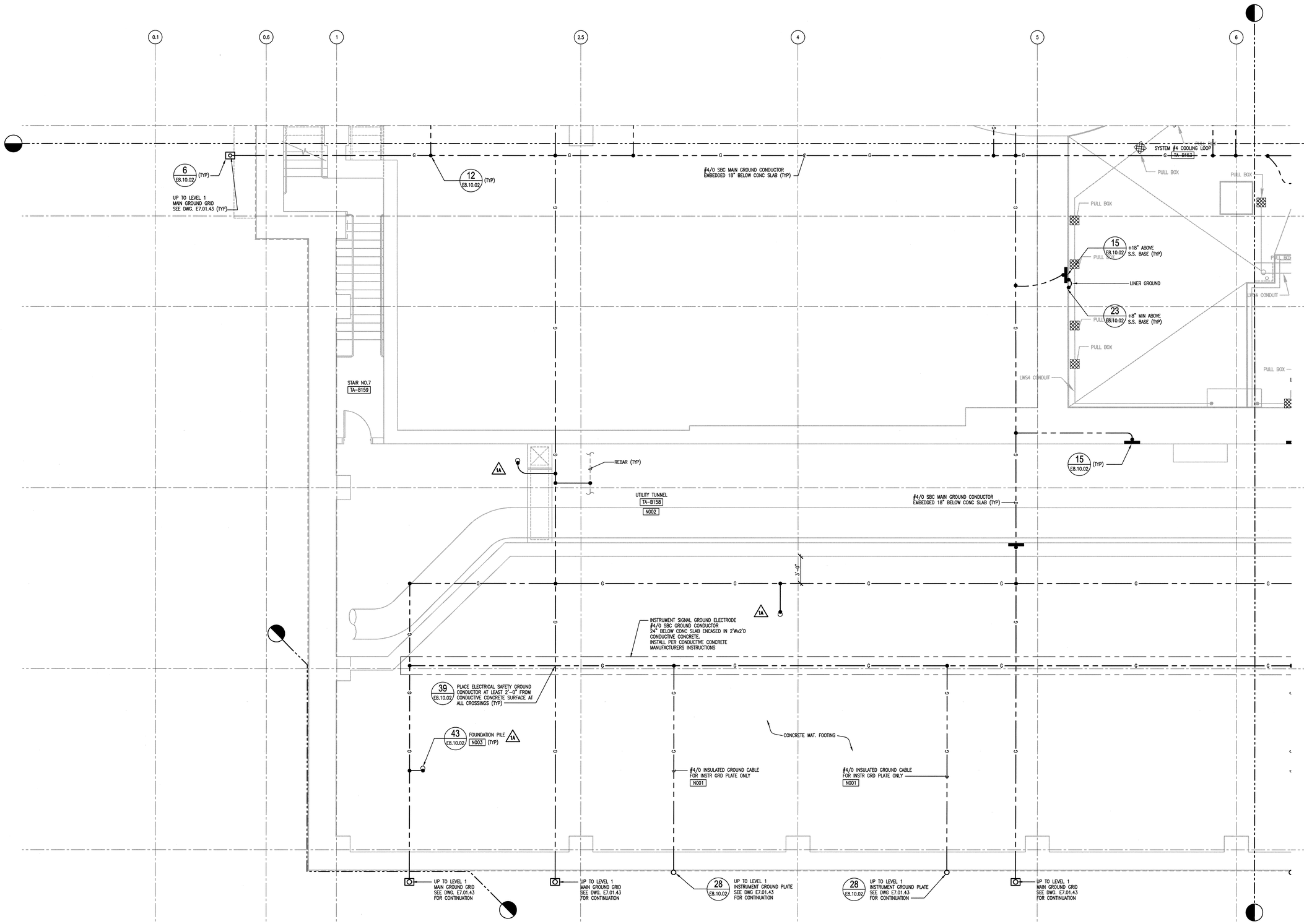

GENERAL NOTES:

1. NOT USED.
2. ALL GROUNDING CONDUCTORS SHALL BE #4/0 STRANDED BARE COPPER (SBC), UNLESS NOTED OTHERWISE.
3. ALL GROUND CONNECTIONS SHALL BE EXOTHERMIC.
4. STUB-UP UNDERGROUND CONDUIT W/ GROUNDING BUSHING.
5. 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.
6. LIGHTNING PROTECTION SYSTEM DOWN CONDUCTORS TO BE ATTACHED TO STRUCTURAL STEEL OR CONCRETE COLUMNS WITH UL LISTED CONNECTORS.
7. IN EACH AREA CONTAINING ELECTRICAL EQUIPMENT, ACCESS TO THE GROUNDING SYSTEM MUST BE AVAILABLE EITHER FROM STRUCTURAL STEEL OR THE BUILDING GROUND GRID.
8. ALL GROUND CONDUCTORS SHOWN WITHIN THE BUILDING ARE EMBEDDED IN THE FLOOR CONCRETE.

SHEET KEYNOTES:

N001	#4/0 COPPER GREEN INSULATED GROUND CABLE SHALL BE RATED 600V TYPE THHN.
N002	METALLIC PIPING IN THE UTILITY TUNNEL/CORRIDOR SHALL BE GROUNDED TO THE GROUND PLATES IN THE WALL WITH #4/0 SBC.
N003	THE LOCATION OF THE PILE TO BE GROUNDED AS SHOWN, IS APPROXIMATE. REFER TO STRUCTURAL PLAN S1.FP.30 FOR NEAREST PILE. REFER TO DWG S4.20.37 FOR PILE DETAIL.

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 DISCLOSURE 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 FOR INFORMATION TO BIDDER ARE NOT TO BE USED FOR OTHER PURPOSES AND ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING CONTRACTOR.

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 3
ENGINEERING PROCEDURE SNS-ENG-G001

REV	CHANGE TYPE	CHANGE CONTROL SYSTEM	CHANGE CONTROL NUMBER	DESCRIPTION	DSN	CHK	DEPT
2				CERTIFIED FOR CONSTRUCTION – 10/26/01	HG	VGS	
1	A	3	1–13	DCN T–001 THRU T013 – 9/21/01	HG	VGS	
0				SUBSTRUCTURES CERTIFIED FOR CONSTRUCTION – 4/18/01	HG	VGS	

REVISION OR ISSUE PURPOSE

DATE	PE	DATE	PJ	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE
	RED 11/19/01		RBD	11/19/01							
	CLG	10/2/01	RAD	10/2/01			JRL	10/2/01	VGS	00106009	9/21/01
	CLG	4/18/01	RAD	4/18/01			JRL	4/19/01	VGS	00106009	4/13/01

REVISION APPROVALS

ST	CV	EC	EE	EM	IE	M	PD	SE	AR
REW	–	WRS	AK	WRS	BWJ	–	MP	–	ED
SC	–	WRS	RL	WRS	BWJ	–	MP	–	WAS
SC	–	WRS	RL	WRS	BWJ	–	MP	–	WAS

SQUAD CHECK

RPE
VICTOR G. STEFFEN REGISTERED ENGINEER No. 00106009 STATE OF TENNESSEE
10-24-01
2 REV. 10-24-01 DATE

DSN	H GROVER	4/13/01
DRW	L. MAKOVSKY	4/13/01
CHK	V.STEFFEN	4/13/01
DEPT		
PE	C.L. GARREN	4/18/01
PJ	R.A. DEAN	4/18/01
REQ		
UTB	J.R. LAWSON	4/19/01

DRAWING APPROVALS

108030700-E8E-8700-A003

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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 B1, SECTOR 43

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					REV
NC		NA			1.8.3.7		E7.B1.43			2

Date: 10/25/2001 Time: 15:28:09
Username: ENGRDESIGN
K:\SNS_WOLFPROJECTS\108030700_SNS\108030700_SAT\AE_PLOT\E7-B1-43.DWG

AutoCAD